Appendix A:
Air Quality and Greenhouse Gas Emissions Supporting Information

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A.1 - CalEEMod Output

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CalEEMod Output

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Unmitigated Construction-Demolition,Site Prep,Grading,Paving

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.98	Acre	3.98	173,368.80	0
Other Non-Asphalt Surfaces	0.45	Acre	0.45	19,557.00	0
Other Non-Asphalt Surfaces	14.00	Acre	14.00	609,840.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - 3.98 acre internal road deducting acreage for 105 lots and 0.45 acres of stormwater treatment area from 14.6 acres of total acres as provided in Project Description and Site Plans.19,557 sqft stormwater treatment area as provided by Applicant.

Construction Phase - Schedule as provided by Applicant in response to request for information form(8/16/19). Construction for Stomwater Treatment Area considered to be building construction activity for conservative analysis.

Trips and VMT -

Demolition - Building (sqft) = 1,824 sqft single-family home as stated in Project Description. Total sqft converted to tons of debris.

Grading - As provided by Applicant in response to request for information form(8/16/19).

Vehicle Trips - Construction Only.

Area Coating - Construction Only.

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	48166	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	100.00
tblConstructionPhase	NumDays	20.00	70.00
tblGrading	MaterialImported	0.00	1,100.00
tblLandUse	LandUseSquareFeet	19,602.00	19,557.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3589	3.3316	2.8711	6.8400e-003	0.4070	0.1301	0.5371	0.1540	0.1209	0.2749	0.0000	617.6858	617.6858	0.1066	0.0000	620.3513
Maximum	**0.3589**	**3.3316**	**2.8711**	**6.8400e-003**	**0.4070**	**0.1301**	**0.5371**	**0.1540**	**0.1209**	**0.2749**	**0.0000**	**617.6858**	**617.6858**	**0.1066**	**0.0000**	**620.3513**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3589	3.3316	2.8711	6.8400e-003	0.2847	0.1301	0.4148	0.0969	0.1209	0.2178	0.0000	617.6854	617.6854	0.1066	0.0000	620.3509
Maximum	**0.3589**	**3.3316**	**2.8711**	**6.8400e-003**	**0.2847**	**0.1301**	**0.4148**	**0.0969**	**0.1209**	**0.2178**	**0.0000**	**617.6854**	**617.6854**	**0.1066**	**0.0000**	**620.3509**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**30.04**	**0.00**	**22.76**	**37.09**	**0.00**	**20.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated Construction-Demolition,Site Prep,Grading,Paving - Sonoma-San Francisco County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-1-2021**	**6-30-2021**	2.0259	2.0259
2	**7-1-2021**	**9-30-2021**	1.6534	1.6534
		Highest	2.0259	2.0259

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0519	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.0000**	**1.7000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**3.5000e-004**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0519	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.0000**	**1.7000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**3.5000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Unmitigated Construction-Demolition,Site Prep,Grading,Paving - Sonoma-San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2021	4/28/2021	5	20	
2	Site Preparation	Site Preparation	4/29/2021	5/12/2021	5	10	
3	Grading	Grading	5/13/2021	6/23/2021	5	30	
4	Stormwater Treatment Area	Building Construction	5/13/2021	9/29/2021	5	100	
5	Paving	Paving	6/24/2021	9/29/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 18.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Unmitigated Construction-Demolition,Site Prep,Grading,Paving - Sonoma-San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stormwater Treatment Area	Cranes	1	7.00	231	0.29
Stormwater Treatment Area	Forklifts	3	8.00	89	0.20
Stormwater Treatment Area	Generator Sets	1	8.00	84	0.74
Stormwater Treatment Area	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Stormwater Treatment Area	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Unmitigated Construction-Demolition,Site Prep,Grading,Paving - Sonoma-San Francisco County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	17.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	138.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Stormwater Treatment Area	9	337.00	132.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7900e-003	0.0000	1.7900e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**1.7900e-003**	**0.0155**	**0.0173**	**2.7000e-004**	**0.0144**	**0.0147**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.3100e-003	4.9000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.6462	0.6462	4.0000e-005	0.0000	0.6472
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.6000e-004	4.7300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0469	1.0469	4.0000e-005	0.0000	1.0478
Total	**7.2000e-004**	**2.7700e-003**	**5.2200e-003**	**2.0000e-005**	**1.3200e-003**	**2.0000e-005**	**1.3400e-003**	**3.5000e-004**	**2.0000e-005**	**3.7000e-004**	**0.0000**	**1.6932**	**1.6932**	**8.0000e-005**	**0.0000**	**1.6950**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**8.0000e-004**	**0.0155**	**0.0163**	**1.2000e-004**	**0.0144**	**0.0145**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.3100e-003	4.9000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.6462	0.6462	4.0000e-005	0.0000	0.6472
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.6000e-004	4.7300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0469	1.0469	4.0000e-005	0.0000	1.0478
Total	**7.2000e-004**	**2.7700e-003**	**5.2200e-003**	**2.0000e-005**	**1.3200e-003**	**2.0000e-005**	**1.3400e-003**	**3.5000e-004**	**2.0000e-005**	**3.7000e-004**	**0.0000**	**1.6932**	**1.6932**	**8.0000e-005**	**0.0000**	**1.6950**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.8000e-004	2.8400e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6282	0.6282	2.0000e-005	0.0000	0.6287
Total	**4.0000e-004**	**2.8000e-004**	**2.8400e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6282**	**0.6282**	**2.0000e-005**	**0.0000**	**0.6287**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0407**	**0.0102**	**0.0509**	**0.0223**	**9.4000e-003**	**0.0317**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.8000e-004	2.8400e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6282	0.6282	2.0000e-005	0.0000	0.6287
Total	**4.0000e-004**	**2.8000e-004**	**2.8400e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6282**	**0.6282**	**2.0000e-005**	**0.0000**	**0.6287**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1302	0.0000	0.1302	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.1302**	**0.0298**	**0.1599**	**0.0540**	**0.0274**	**0.0814**	**0.0000**	**81.7425**	**81.7425**	**0.0264**	**0.0000**	**82.4034**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0188	3.9900e-003	5.0000e-005	1.1400e-003	6.0000e-005	1.2100e-003	3.1000e-004	6.0000e-005	3.7000e-004	0.0000	5.2459	5.2459	3.2000e-004	0.0000	5.2540
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	9.3000e-004	9.4500e-003	2.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.0939	2.0939	7.0000e-005	0.0000	2.0956
Total	**1.8500e-003**	**0.0197**	**0.0134**	**7.0000e-005**	**3.4900e-003**	**8.0000e-005**	**3.5800e-003**	**9.4000e-004**	**8.0000e-005**	**1.0100e-003**	**0.0000**	**7.3398**	**7.3398**	**3.9000e-004**	**0.0000**	**7.3496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0586	0.0000	0.0586	0.0243	0.0000	0.0243	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.0586**	**0.0298**	**0.0884**	**0.0243**	**0.0274**	**0.0517**	**0.0000**	**81.7424**	**81.7424**	**0.0264**	**0.0000**	**82.4033**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0188	3.9900e-003	5.0000e-005	1.1400e-003	6.0000e-005	1.2100e-003	3.1000e-004	6.0000e-005	3.7000e-004	0.0000	5.2459	5.2459	3.2000e-004	0.0000	5.2540
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	9.3000e-004	9.4500e-003	2.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.0939	2.0939	7.0000e-005	0.0000	2.0956
Total	**1.8500e-003**	**0.0197**	**0.0134**	**7.0000e-005**	**3.4900e-003**	**8.0000e-005**	**3.5800e-003**	**9.4000e-004**	**8.0000e-005**	**1.0100e-003**	**0.0000**	**7.3398**	**7.3398**	**3.9000e-004**	**0.0000**	**7.3496**

3.5 Stormwater Treatment Area - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8186	115.8186	0.0279	0.0000	116.5172
Total	**0.0951**	**0.8716**	**0.8288**	**1.3500e-003**		**0.0479**	**0.0479**		**0.0451**	**0.0451**	**0.0000**	**115.8186**	**115.8186**	**0.0279**	**0.0000**	**116.5172**

3.5 Stormwater Treatment Area - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0210	0.7186	0.1759	1.7400e-003	0.0428	1.8000e-003	0.0446	0.0124	1.7200e-003	0.0141	0.0000	168.3935	168.3935	0.0100	0.0000	168.6437
Worker	0.0745	0.0521	0.5309	1.3000e-003	0.1322	1.0300e-003	0.1333	0.0352	9.5000e-004	0.0362	0.0000	117.6050	117.6050	3.9800e-003	0.0000	117.7045
Total	**0.0955**	**0.7706**	**0.7069**	**3.0400e-003**	**0.1750**	**2.8300e-003**	**0.1779**	**0.0476**	**2.6700e-003**	**0.0502**	**0.0000**	**285.9985**	**285.9985**	**0.0140**	**0.0000**	**286.3481**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8185	115.8185	0.0279	0.0000	116.5171
Total	**0.0951**	**0.8716**	**0.8288**	**1.3500e-003**		**0.0479**	**0.0479**		**0.0451**	**0.0451**	**0.0000**	**115.8185**	**115.8185**	**0.0279**	**0.0000**	**116.5171**

3.5 Stormwater Treatment Area - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0210	0.7186	0.1759	1.7400e-003	0.0428	1.8000e-003	0.0446	0.0124	1.7200e-003	0.0141	0.0000	168.3935	168.3935	0.0100	0.0000	168.6437
Worker	0.0745	0.0521	0.5309	1.3000e-003	0.1322	1.0300e-003	0.1333	0.0352	9.5000e-004	0.0362	0.0000	117.6050	117.6050	3.9800e-003	0.0000	117.7045
Total	**0.0955**	**0.7706**	**0.7069**	**3.0400e-003**	**0.1750**	**2.8300e-003**	**0.1779**	**0.0476**	**2.6700e-003**	**0.0502**	**0.0000**	**285.9985**	**285.9985**	**0.0140**	**0.0000**	**286.3481**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0439	0.4522	0.5129	8.0000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	70.0822	70.0822	0.0227	0.0000	70.6488
Paving	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0492**	**0.4522**	**0.5129**	**8.0000e-004**		**0.0237**	**0.0237**		**0.0218**	**0.0218**	**0.0000**	**70.0822**	**70.0822**	**0.0227**	**0.0000**	**70.6488**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3200e-003	1.6200e-003	0.0165	4.0000e-005	4.1200e-003	3.0000e-005	4.1500e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.6643	3.6643	1.2000e-004	0.0000	3.6674
Total	**2.3200e-003**	**1.6200e-003**	**0.0165**	**4.0000e-005**	**4.1200e-003**	**3.0000e-005**	**4.1500e-003**	**1.1000e-003**	**3.0000e-005**	**1.1300e-003**	**0.0000**	**3.6643**	**3.6643**	**1.2000e-004**	**0.0000**	**3.6674**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0439	0.4522	0.5129	8.0000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	70.0821	70.0821	0.0227	0.0000	70.6488
Paving	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0492**	**0.4522**	**0.5129**	**8.0000e-004**		**0.0237**	**0.0237**		**0.0218**	**0.0218**	**0.0000**	**70.0821**	**70.0821**	**0.0227**	**0.0000**	**70.6488**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3200e-003	1.6200e-003	0.0165	4.0000e-005	4.1200e-003	3.0000e-005	4.1500e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.6643	3.6643	1.2000e-004	0.0000	3.6674
Total	**2.3200e-003**	**1.6200e-003**	**0.0165**	**4.0000e-005**	**4.1200e-003**	**3.0000e-005**	**4.1500e-003**	**1.1000e-003**	**3.0000e-005**	**1.1300e-003**	**0.0000**	**3.6643**	**3.6643**	**1.2000e-004**	**0.0000**	**3.6674**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Other Non-Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0519	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Unmitigated	0.0519	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Total	**0.0519**	**0.0000**	**1.7000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**3.5000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Total	**0.0519**	**0.0000**	**1.7000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**3.5000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Construction-Homes 1-21

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	56

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated Construction-Homes 1-21 - Sonoma-San Francisco County, Annual

Project Characteristics - .CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form (8/16/19).

Land Use - Building Construction for 21 units. Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit (City of Santa Rosa).

Construction Phase - As provided by Applicant in response to request for information form (8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Demolition -

Grading -

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	56.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0269	0.2417	0.2323	4.0000e-004	2.5400e-003	0.0129	0.0154	6.9000e-004	0.0121	0.0128	0.0000	34.6194	34.6194	7.6500e-003	0.0000	34.8107
2022	0.4041	0.5493	0.5917	1.0200e-003	6.4600e-003	0.0277	0.0341	1.7400e-003	0.0260	0.0278	0.0000	88.4937	88.4937	0.0199	0.0000	88.9912
Maximum	**0.4041**	**0.5493**	**0.5917**	**1.0200e-003**	**6.4600e-003**	**0.0277**	**0.0341**	**1.7400e-003**	**0.0260**	**0.0278**	**0.0000**	**88.4937**	**88.4937**	**0.0199**	**0.0000**	**88.9912**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0269	0.2417	0.2323	4.0000e-004	2.5400e-003	0.0129	0.0154	6.9000e-004	0.0121	0.0128	0.0000	34.6193	34.6193	7.6500e-003	0.0000	34.8107
2022	0.4041	0.5493	0.5917	1.0200e-003	6.4600e-003	0.0277	0.0341	1.7400e-003	0.0260	0.0278	0.0000	88.4936	88.4936	0.0199	0.0000	88.9911
Maximum	**0.4041**	**0.5493**	**0.5917**	**1.0200e-003**	**6.4600e-003**	**0.0277**	**0.0341**	**1.7400e-003**	**0.0260**	**0.0278**	**0.0000**	**88.4936**	**88.4936**	**0.0199**	**0.0000**	**88.9911**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-30-2021**	**12-29-2021**	0.2608	0.2608
2	**12-30-2021**	**3-29-2022**	0.2321	0.2321
3	**3-30-2022**	**6-29-2022**	0.2363	0.2363
4	**6-30-2022**	**9-29-2022**	0.4927	0.4927
		Highest	0.4927	0.4927

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	9/30/2021	8/3/2022	5	220	
2	Paving	Paving	8/4/2022	8/17/2022	5	10	
3	Architectural Coating	Architectural Coating	8/18/2022	8/31/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0255	0.2336	0.2221	3.6000e-004		0.0129	0.0129		0.0121	0.0121	0.0000	31.0394	31.0394	7.4900e-003	0.0000	31.2266
Total	**0.0255**	**0.2336**	**0.2221**	**3.6000e-004**		**0.0129**	**0.0129**		**0.0121**	**0.0121**	**0.0000**	**31.0394**	**31.0394**	**7.4900e-003**	**0.0000**	**31.2266**

3.2 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.2900e-003	1.7900e-003	2.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.3000e-004	2.0000e-005	1.4000e-004	0.0000	1.7095	1.7095	1.0000e-004	0.0000	1.7120
Worker	1.1800e-003	8.3000e-004	8.4400e-003	2.0000e-005	2.1000e-003	2.0000e-005	2.1200e-003	5.6000e-004	2.0000e-005	5.7000e-004	0.0000	1.8705	1.8705	6.0000e-005	0.0000	1.8721
Total	**1.3900e-003**	**8.1200e-003**	**0.0102**	**4.0000e-005**	**2.5300e-003**	**4.0000e-005**	**2.5700e-003**	**6.9000e-004**	**4.0000e-005**	**7.1000e-004**	**0.0000**	**3.5800**	**3.5800**	**1.6000e-004**	**0.0000**	**3.5841**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0255	0.2336	0.2221	3.6000e-004		0.0129	0.0129		0.0121	0.0121	0.0000	31.0394	31.0394	7.4900e-003	0.0000	31.2266
Total	**0.0255**	**0.2336**	**0.2221**	**3.6000e-004**		**0.0129**	**0.0129**		**0.0121**	**0.0121**	**0.0000**	**31.0394**	**31.0394**	**7.4900e-003**	**0.0000**	**31.2266**

3.2 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.2900e-003	1.7900e-003	2.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.3000e-004	2.0000e-005	1.4000e-004	0.0000	1.7095	1.7095	1.0000e-004	0.0000	1.7120
Worker	1.1800e-003	8.3000e-004	8.4400e-003	2.0000e-005	2.1000e-003	2.0000e-005	2.1200e-003	5.6000e-004	2.0000e-005	5.7000e-004	0.0000	1.8705	1.8705	6.0000e-005	0.0000	1.8721
Total	**1.3900e-003**	**8.1200e-003**	**0.0102**	**4.0000e-005**	**2.5300e-003**	**4.0000e-005**	**2.5700e-003**	**6.9000e-004**	**4.0000e-005**	**7.1000e-004**	**0.0000**	**3.5800**	**3.5800**	**1.6000e-004**	**0.0000**	**3.5841**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0522	0.4778	0.5007	8.2000e-004		0.0248	0.0248		0.0233	0.0233	0.0000	70.9079	70.9079	0.0170	0.0000	71.3326
Total	**0.0522**	**0.4778**	**0.5007**	**8.2000e-004**		**0.0248**	**0.0248**		**0.0233**	**0.0233**	**0.0000**	**70.9079**	**70.9079**	**0.0170**	**0.0000**	**71.3326**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0158	3.7400e-003	4.0000e-005	9.9000e-004	4.0000e-005	1.0300e-003	2.9000e-004	3.0000e-005	3.2000e-004	0.0000	3.8674	3.8674	2.3000e-004	0.0000	3.8731
Worker	2.5100e-003	1.6800e-003	0.0173	5.0000e-005	4.8000e-003	4.0000e-005	4.8400e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.1152	4.1152	1.3000e-004	0.0000	4.1184
Total	**2.9600e-003**	**0.0175**	**0.0210**	**9.0000e-005**	**5.7900e-003**	**8.0000e-005**	**5.8700e-003**	**1.5700e-003**	**6.0000e-005**	**1.6300e-003**	**0.0000**	**7.9826**	**7.9826**	**3.6000e-004**	**0.0000**	**7.9914**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0522	0.4778	0.5007	8.2000e-004		0.0248	0.0248		0.0233	0.0233	0.0000	70.9078	70.9078	0.0170	0.0000	71.3325
Total	**0.0522**	**0.4778**	**0.5007**	**8.2000e-004**		**0.0248**	**0.0248**		**0.0233**	**0.0233**	**0.0000**	**70.9078**	**70.9078**	**0.0170**	**0.0000**	**71.3325**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0158	3.7400e-003	4.0000e-005	9.9000e-004	4.0000e-005	1.0300e-003	2.9000e-004	3.0000e-005	3.2000e-004	0.0000	3.8674	3.8674	2.3000e-004	0.0000	3.8731
Worker	2.5100e-003	1.6800e-003	0.0173	5.0000e-005	4.8000e-003	4.0000e-005	4.8400e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.1152	4.1152	1.3000e-004	0.0000	4.1184
Total	**2.9600e-003**	**0.0175**	**0.0210**	**9.0000e-005**	**5.7900e-003**	**8.0000e-005**	**5.8700e-003**	**1.5700e-003**	**6.0000e-005**	**1.6300e-003**	**0.0000**	**7.9826**	**7.9826**	**3.6000e-004**	**0.0000**	**7.9914**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7744	0.2822	0.0000	11.8282
Unmitigated	4.7744	0.2822	0.0000	11.8282

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Construction-Homes 22-42

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	56

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - Building Construction for 21 units. Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit (City of Santa Rosa).

Construction Phase - As provided by Applicant in response to request for information form (8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Demolition -

Grading -

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Unmitigated Construction-Homes 22-42 - Sonoma-San Francisco County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	56.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0758	0.6810	0.6552	1.1200e-003	7.0400e-003	0.0363	0.0434	1.9000e-003	0.0342	0.0361	0.0000	97.2731	97.2731	0.0216	0.0000	97.8126
2022	0.3601	0.1542	0.1756	2.9000e-004	1.8200e-003	7.8800e-003	9.7000e-003	4.9000e-004	7.4000e-003	7.8800e-003	0.0000	25.5251	25.5251	6.0700e-003	0.0000	25.6769
Maximum	**0.3601**	**0.6810**	**0.6552**	**1.1200e-003**	**7.0400e-003**	**0.0363**	**0.0434**	**1.9000e-003**	**0.0342**	**0.0361**	**0.0000**	**97.2731**	**97.2731**	**0.0216**	**0.0000**	**97.8126**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0758	0.6810	0.6552	1.1200e-003	7.0400e-003	0.0363	0.0434	1.9000e-003	0.0342	0.0361	0.0000	97.2730	97.2730	0.0216	0.0000	97.8125
2022	0.3601	0.1542	0.1756	2.9000e-004	1.8200e-003	7.8800e-003	9.7000e-003	4.9000e-004	7.4000e-003	7.8800e-003	0.0000	25.5251	25.5251	6.0700e-003	0.0000	25.6769
Maximum	**0.3601**	**0.6810**	**0.6552**	**1.1200e-003**	**7.0400e-003**	**0.0363**	**0.0434**	**1.9000e-003**	**0.0342**	**0.0361**	**0.0000**	**97.2730**	**97.2730**	**0.0216**	**0.0000**	**97.8125**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-13-2021**	**7-12-2021**	0.2601	0.2601
2	**7-13-2021**	**10-12-2021**	0.2630	0.2630
3	**10-13-2021**	**1-12-2022**	0.2598	0.2598
4	**1-13-2022**	**4-12-2022**	0.4877	0.4877
		Highest	0.4877	0.4877

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/13/2021	2/14/2022	5	220	
2	Paving	Paving	2/15/2022	2/28/2022	5	10	
3	Architectural Coating	Architectural Coating	3/1/2022	3/14/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0719	0.6589	0.6265	1.0200e-003		0.0362	0.0362		0.0341	0.0341	0.0000	87.5589	87.5589	0.0211	0.0000	88.0870
Total	**0.0719**	**0.6589**	**0.6265**	**1.0200e-003**		**0.0362**	**0.0362**		**0.0341**	**0.0341**	**0.0000**	**87.5589**	**87.5589**	**0.0211**	**0.0000**	**88.0870**

3.2 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0197	4.8200e-003	5.0000e-005	1.1100e-003	5.0000e-005	1.1600e-003	3.2000e-004	5.0000e-005	3.7000e-004	0.0000	4.4377	4.4377	2.8000e-004	0.0000	4.4446
Worker	3.3400e-003	2.3400e-003	0.0238	6.0000e-005	5.9300e-003	5.0000e-005	5.9800e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.2765	5.2765	1.8000e-004	0.0000	5.2810
Total	**3.9100e-003**	**0.0221**	**0.0286**	**1.1000e-004**	**7.0400e-003**	**1.0000e-004**	**7.1400e-003**	**1.9000e-003**	**9.0000e-005**	**1.9900e-003**	**0.0000**	**9.7142**	**9.7142**	**4.6000e-004**	**0.0000**	**9.7256**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0719	0.6589	0.6265	1.0200e-003		0.0362	0.0362		0.0341	0.0341	0.0000	87.5588	87.5588	0.0211	0.0000	88.0869
Total	**0.0719**	**0.6589**	**0.6265**	**1.0200e-003**		**0.0362**	**0.0362**		**0.0341**	**0.0341**	**0.0000**	**87.5588**	**87.5588**	**0.0211**	**0.0000**	**88.0869**

3.2 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0197	4.8200e-003	5.0000e-005	1.1100e-003	5.0000e-005	1.1600e-003	3.2000e-004	5.0000e-005	3.7000e-004	0.0000	4.4377	4.4377	2.8000e-004	0.0000	4.4446
Worker	3.3400e-003	2.3400e-003	0.0238	6.0000e-005	5.9300e-003	5.0000e-005	5.9800e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.2765	5.2765	1.8000e-004	0.0000	5.2810
Total	**3.9100e-003**	**0.0221**	**0.0286**	**1.1000e-004**	**7.0400e-003**	**1.0000e-004**	**7.1400e-003**	**1.9000e-003**	**9.0000e-005**	**1.9900e-003**	**0.0000**	**9.7142**	**9.7142**	**4.6000e-004**	**0.0000**	**9.7256**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0106	0.0968	0.1015	1.7000e-004		5.0200e-003	5.0200e-003		4.7200e-003	4.7200e-003	0.0000	14.3670	14.3670	3.4400e-003	0.0000	14.4530
Total	**0.0106**	**0.0968**	**0.1015**	**1.7000e-004**		**5.0200e-003**	**5.0200e-003**		**4.7200e-003**	**4.7200e-003**	**0.0000**	**14.3670**	**14.3670**	**3.4400e-003**	**0.0000**	**14.4530**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.0800e-003	7.2000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7212	0.7212	4.0000e-005	0.0000	0.7223
Worker	5.1000e-004	3.4000e-004	3.5000e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8338	0.8338	3.0000e-005	0.0000	0.8344
Total	**6.0000e-004**	**3.4200e-003**	**4.2200e-003**	**2.0000e-005**	**1.1500e-003**	**2.0000e-005**	**1.1700e-003**	**3.1000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.5550**	**1.5550**	**7.0000e-005**	**0.0000**	**1.5567**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0106	0.0968	0.1015	1.7000e-004		5.0200e-003	5.0200e-003		4.7200e-003	4.7200e-003	0.0000	14.3670	14.3670	3.4400e-003	0.0000	14.4530
Total	**0.0106**	**0.0968**	**0.1015**	**1.7000e-004**		**5.0200e-003**	**5.0200e-003**		**4.7200e-003**	**4.7200e-003**	**0.0000**	**14.3670**	**14.3670**	**3.4400e-003**	**0.0000**	**14.4530**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.0800e-003	7.2000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7212	0.7212	4.0000e-005	0.0000	0.7223
Worker	5.1000e-004	3.4000e-004	3.5000e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8338	0.8338	3.0000e-005	0.0000	0.8344
Total	**6.0000e-004**	**3.4200e-003**	**4.2200e-003**	**2.0000e-005**	**1.1500e-003**	**2.0000e-005**	**1.1700e-003**	**3.1000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.5550**	**1.5550**	**7.0000e-005**	**0.0000**	**1.5567**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7744	0.2822	0.0000	11.8282
Unmitigated	4.7744	0.2822	0.0000	11.8282

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Construction-Homes 43-63

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	56

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - Building Construction for 21 units. Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit (City of Santa Rosa).

Construction Phase - As provided by Applicant in response to request for information(8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	56.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0201	0.1804	0.1734	3.0000e-004	1.8900e-003	9.6100e-003	0.0115	5.1000e-004	9.0400e-003	9.5500e-003	0.0000	25.8353	25.8353	5.7100e-003	0.0000	25.9781
2022	0.4102	0.6043	0.6497	1.1200e-003	7.1100e-003	0.0304	0.0376	1.9200e-003	0.0286	0.0305	0.0000	97.2593	97.2593	0.0218	0.0000	97.8050
Maximum	**0.4102**	**0.6043**	**0.6497**	**1.1200e-003**	**7.1100e-003**	**0.0304**	**0.0376**	**1.9200e-003**	**0.0286**	**0.0305**	**0.0000**	**97.2593**	**97.2593**	**0.0218**	**0.0000**	**97.8050**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0201	0.1804	0.1734	3.0000e-004	1.8900e-003	9.6100e-003	0.0115	5.1000e-004	9.0400e-003	9.5500e-003	0.0000	25.8353	25.8353	5.7100e-003	0.0000	25.9781
2022	0.4102	0.6043	0.6497	1.1200e-003	7.1100e-003	0.0304	0.0376	1.9200e-003	0.0286	0.0305	0.0000	97.2592	97.2592	0.0218	0.0000	97.8049
Maximum	**0.4102**	**0.6043**	**0.6497**	**1.1200e-003**	**7.1100e-003**	**0.0304**	**0.0376**	**1.9200e-003**	**0.0286**	**0.0305**	**0.0000**	**97.2592**	**97.2592**	**0.0218**	**0.0000**	**97.8049**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-25-2021**	**1-24-2022**	0.2566	0.2566
2	**1-25-2022**	**4-24-2022**	0.2314	0.2314
3	**4-25-2022**	**7-24-2022**	0.2338	0.2338
4	**7-25-2022**	**9-30-2022**	0.4876	0.4876
		Highest	0.4876	0.4876

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	10/25/2021	8/26/2022	5	220	
2	Paving	Paving	8/27/2022	9/9/2022	5	10	
3	Architectural Coating	Architectural Coating	9/10/2022	9/23/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0190	0.1743	0.1658	2.7000e-004		9.5900e-003	9.5900e-003		9.0100e-003	9.0100e-003	0.0000	23.1637	23.1637	5.5900e-003	0.0000	23.3034
Total	**0.0190**	**0.1743**	**0.1658**	**2.7000e-004**		**9.5900e-003**	**9.5900e-003**		**9.0100e-003**	**9.0100e-003**	**0.0000**	**23.1637**	**23.1637**	**5.5900e-003**	**0.0000**	**23.3034**

3.2 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.4400e-003	1.3300e-003	1.0000e-005	3.2000e-004	1.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	1.2757	1.2757	8.0000e-005	0.0000	1.2776
Worker	8.8000e-004	6.2000e-004	6.3000e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3959	1.3959	5.0000e-005	0.0000	1.3971
Total	**1.0400e-003**	**6.0600e-003**	**7.6300e-003**	**3.0000e-005**	**1.8900e-003**	**2.0000e-005**	**1.9200e-003**	**5.1000e-004**	**2.0000e-005**	**5.4000e-004**	**0.0000**	**2.6716**	**2.6716**	**1.3000e-004**	**0.0000**	**2.6747**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0190	0.1743	0.1658	2.7000e-004		9.5900e-003	9.5900e-003		9.0100e-003	9.0100e-003	0.0000	23.1637	23.1637	5.5900e-003	0.0000	23.3034
Total	**0.0190**	**0.1743**	**0.1658**	**2.7000e-004**		**9.5900e-003**	**9.5900e-003**		**9.0100e-003**	**9.0100e-003**	**0.0000**	**23.1637**	**23.1637**	**5.5900e-003**	**0.0000**	**23.3034**

3.2 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.4400e-003	1.3300e-003	1.0000e-005	3.2000e-004	1.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	1.2757	1.2757	8.0000e-005	0.0000	1.2776
Worker	8.8000e-004	6.2000e-004	6.3000e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3959	1.3959	5.0000e-005	0.0000	1.3971
Total	**1.0400e-003**	**6.0600e-003**	**7.6300e-003**	**3.0000e-005**	**1.8900e-003**	**2.0000e-005**	**1.9200e-003**	**5.1000e-004**	**2.0000e-005**	**5.4000e-004**	**0.0000**	**2.6716**	**2.6716**	**1.3000e-004**	**0.0000**	**2.6747**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0580	0.5309	0.5564	9.2000e-004		0.0275	0.0275		0.0259	0.0259	0.0000	78.7866	78.7866	0.0189	0.0000	79.2585
Total	**0.0580**	**0.5309**	**0.5564**	**9.2000e-004**		**0.0275**	**0.0275**		**0.0259**	**0.0259**	**0.0000**	**78.7866**	**78.7866**	**0.0189**	**0.0000**	**79.2585**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0176	4.1600e-003	4.0000e-005	1.1000e-003	4.0000e-005	1.1400e-003	3.2000e-004	4.0000e-005	3.6000e-004	0.0000	4.2971	4.2971	2.5000e-004	0.0000	4.3034
Worker	2.7800e-003	1.8700e-003	0.0192	5.0000e-005	5.3400e-003	4.0000e-005	5.3800e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.5724	4.5724	1.4000e-004	0.0000	4.5760
Total	**3.2800e-003**	**0.0195**	**0.0234**	**9.0000e-005**	**6.4400e-003**	**8.0000e-005**	**6.5200e-003**	**1.7400e-003**	**8.0000e-005**	**1.8200e-003**	**0.0000**	**8.8695**	**8.8695**	**3.9000e-004**	**0.0000**	**8.8794**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0580	0.5309	0.5564	9.2000e-004		0.0275	0.0275		0.0259	0.0259	0.0000	78.7865	78.7865	0.0189	0.0000	79.2584
Total	**0.0580**	**0.5309**	**0.5564**	**9.2000e-004**		**0.0275**	**0.0275**		**0.0259**	**0.0259**	**0.0000**	**78.7865**	**78.7865**	**0.0189**	**0.0000**	**79.2584**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0176	4.1600e-003	4.0000e-005	1.1000e-003	4.0000e-005	1.1400e-003	3.2000e-004	4.0000e-005	3.6000e-004	0.0000	4.2971	4.2971	2.5000e-004	0.0000	4.3034
Worker	2.7800e-003	1.8700e-003	0.0192	5.0000e-005	5.3400e-003	4.0000e-005	5.3800e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.5724	4.5724	1.4000e-004	0.0000	4.5760
Total	**3.2800e-003**	**0.0195**	**0.0234**	**9.0000e-005**	**6.4400e-003**	**8.0000e-005**	**6.5200e-003**	**1.7400e-003**	**8.0000e-005**	**1.8200e-003**	**0.0000**	**8.8695**	**8.8695**	**3.9000e-004**	**0.0000**	**8.8794**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7744	0.2822	0.0000	11.8282
Unmitigated	4.7744	0.2822	0.0000	11.8282

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Construction-Homes 64-84

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	56

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - Building Construction for 21 units. Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit (City of Santa Rosa).

Construction Phase - As provided by Applicant in response to request for information form(8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	56.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0616	0.5529	0.5829	1.0100e-003	6.3700e-003	0.0278	0.0341	1.7200e-003	0.0261	0.0278	0.0000	87.8275	87.8275	0.0194	0.0000	88.3118
2023	0.3648	0.1951	0.2348	4.0000e-004	2.4900e-003	9.4000e-003	0.0119	6.7000e-004	8.8300e-003	9.5000e-003	0.0000	34.6808	34.6808	8.0500e-003	0.0000	34.8820
Maximum	**0.3648**	**0.5529**	**0.5829**	**1.0100e-003**	**6.3700e-003**	**0.0278**	**0.0341**	**1.7200e-003**	**0.0261**	**0.0278**	**0.0000**	**87.8275**	**87.8275**	**0.0194**	**0.0000**	**88.3118**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0616	0.5529	0.5829	1.0100e-003	6.3700e-003	0.0278	0.0341	1.7200e-003	0.0261	0.0278	0.0000	87.8274	87.8274	0.0194	0.0000	88.3117
2023	0.3648	0.1951	0.2348	4.0000e-004	2.4900e-003	9.4000e-003	0.0119	6.7000e-004	8.8300e-003	9.5000e-003	0.0000	34.6807	34.6807	8.0500e-003	0.0000	34.8820
Maximum	**0.3648**	**0.5529**	**0.5829**	**1.0100e-003**	**6.3700e-003**	**0.0278**	**0.0341**	**1.7200e-003**	**0.0261**	**0.0278**	**0.0000**	**87.8274**	**87.8274**	**0.0194**	**0.0000**	**88.3117**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-6-2022**	**8-5-2022**	0.2361	0.2361
2	**8-6-2022**	**11-5-2022**	0.2362	0.2362
3	**11-6-2022**	**2-5-2023**	0.2288	0.2288
4	**2-6-2023**	**5-5-2023**	0.4738	0.4738
		Highest	0.4738	0.4738

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	5/6/2022	3/9/2023	5	220	
2	Paving	Paving	3/10/2023	3/23/2023	5	10	
3	Architectural Coating	Architectural Coating	3/24/2023	4/6/2023	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0584	0.5341	0.5596	9.2000e-004		0.0277	0.0277		0.0260	0.0260	0.0000	79.2500	79.2500	0.0190	0.0000	79.7247
Total	**0.0584**	**0.5341**	**0.5596**	**9.2000e-004**		**0.0277**	**0.0277**		**0.0260**	**0.0260**	**0.0000**	**79.2500**	**79.2500**	**0.0190**	**0.0000**	**79.7247**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	0.0170	3.9900e-003	4.0000e-005	1.0000e-003	4.0000e-005	1.0400e-003	2.9000e-004	4.0000e-005	3.3000e-004	0.0000	3.9781	3.9781	2.4000e-004	0.0000	3.9842
Worker	2.8000e-003	1.8800e-003	0.0193	5.0000e-005	5.3700e-003	4.0000e-005	5.4100e-003	1.4300e-003	4.0000e-005	1.4700e-003	0.0000	4.5993	4.5993	1.4000e-004	0.0000	4.6029
Total	**3.2700e-003**	**0.0189**	**0.0233**	**9.0000e-005**	**6.3700e-003**	**8.0000e-005**	**6.4500e-003**	**1.7200e-003**	**8.0000e-005**	**1.8000e-003**	**0.0000**	**8.5775**	**8.5775**	**3.8000e-004**	**0.0000**	**8.5871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0584	0.5341	0.5596	9.2000e-004		0.0277	0.0277		0.0260	0.0260	0.0000	79.2499	79.2499	0.0190	0.0000	79.7246
Total	**0.0584**	**0.5341**	**0.5596**	**9.2000e-004**		**0.0277**	**0.0277**		**0.0260**	**0.0260**	**0.0000**	**79.2499**	**79.2499**	**0.0190**	**0.0000**	**79.7246**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	0.0170	3.9900e-003	4.0000e-005	1.0000e-003	4.0000e-005	1.0400e-003	2.9000e-004	4.0000e-005	3.3000e-004	0.0000	3.9781	3.9781	2.4000e-004	0.0000	3.9842
Worker	2.8000e-003	1.8800e-003	0.0193	5.0000e-005	5.3700e-003	4.0000e-005	5.4100e-003	1.4300e-003	4.0000e-005	1.4700e-003	0.0000	4.5993	4.5993	1.4000e-004	0.0000	4.6029
Total	**3.2700e-003**	**0.0189**	**0.0233**	**9.0000e-005**	**6.3700e-003**	**8.0000e-005**	**6.4500e-003**	**1.7200e-003**	**8.0000e-005**	**1.8000e-003**	**0.0000**	**8.5775**	**8.5775**	**3.8000e-004**	**0.0000**	**8.5871**

3.2 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0154	0.1410	0.1592	2.6000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	22.7169	22.7169	5.4000e-003	0.0000	22.8520
Total	**0.0154**	**0.1410**	**0.1592**	**2.6000e-004**		**6.8600e-003**	**6.8600e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**22.7169**	**22.7169**	**5.4000e-003**	**0.0000**	**22.8520**

3.2 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.9200e-003	1.0100e-003	1.0000e-005	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	1.1141	1.1141	6.0000e-005	0.0000	1.1156
Worker	7.4000e-004	4.8000e-004	4.9800e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.2672	1.2672	4.0000e-005	0.0000	1.2681
Total	**8.4000e-004**	**4.4000e-003**	**5.9900e-003**	**2.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8400e-003**	**4.9000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**2.3813**	**2.3813**	**1.0000e-004**	**0.0000**	**2.3837**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0154	0.1410	0.1592	2.6000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	22.7168	22.7168	5.4000e-003	0.0000	22.8519
Total	**0.0154**	**0.1410**	**0.1592**	**2.6000e-004**		**6.8600e-003**	**6.8600e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**22.7168**	**22.7168**	**5.4000e-003**	**0.0000**	**22.8519**

3.2 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.9200e-003	1.0100e-003	1.0000e-005	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	1.1141	1.1141	6.0000e-005	0.0000	1.1156
Worker	7.4000e-004	4.8000e-004	4.9800e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.2672	1.2672	4.0000e-005	0.0000	1.2681
Total	**8.4000e-004**	**4.4000e-003**	**5.9900e-003**	**2.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8400e-003**	**4.9000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**2.3813**	**2.3813**	**1.0000e-004**	**0.0000**	**2.3837**

3.3 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8179
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4000e-003**	**0.0431**	**0.0584**	**9.0000e-005**		**2.1700e-003**	**2.1700e-003**		**2.0000e-003**	**2.0000e-003**	**0.0000**	**7.7564**	**7.7564**	**2.4600e-003**	**0.0000**	**7.8179**

3.3 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.8000e-004	1.9100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4849	0.4849	1.0000e-005	0.0000	0.4853
Total	**2.9000e-004**	**1.8000e-004**	**1.9100e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**0.0000**	**0.4853**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8178
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4000e-003**	**0.0431**	**0.0584**	**9.0000e-005**		**2.1700e-003**	**2.1700e-003**		**2.0000e-003**	**2.0000e-003**	**0.0000**	**7.7564**	**7.7564**	**2.4600e-003**	**0.0000**	**7.8178**

3.3 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.8000e-004	1.9100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4849	0.4849	1.0000e-005	0.0000	0.4853
Total	**2.9000e-004**	**1.8000e-004**	**1.9100e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**0.0000**	**0.4853**

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**0.3438**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

3.4 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0647	0.0647	0.0000	0.0000	0.0647
Total	**4.0000e-005**	**2.0000e-005**	**2.5000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0647**	**0.0647**	**0.0000**	**0.0000**	**0.0647**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**0.3438**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

3.4 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0647	0.0647	0.0000	0.0000	0.0647
Total	**4.0000e-005**	**2.0000e-005**	**2.5000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0647**	**0.0647**	**0.0000**	**0.0000**	**0.0647**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7744	0.2822	0.0000	11.8282
Unmitigated	4.7744	0.2822	0.0000	11.8282

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Construction-Homes 85-105

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	55

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit(City of Santa Rosa).Rounded down to be consistent with total population of 279.

Construction Phase - As provided by Applicant in response to request for information form(8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	55.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0115	0.1035	0.1091	1.9000e-004	1.1900e-003	5.1900e-003	6.3800e-003	3.2000e-004	4.8900e-003	5.2100e-003	0.0000	16.4356	16.4356	3.6300e-003	0.0000	16.5262
2023	0.4109	0.6075	0.7034	1.2200e-003	7.6700e-003	0.0289	0.0366	2.0700e-003	0.0272	0.0292	0.0000	105.8776	105.8776	0.0237	0.0000	106.4690
Maximum	**0.4109**	**0.6075**	**0.7034**	**1.2200e-003**	**7.6700e-003**	**0.0289**	**0.0366**	**2.0700e-003**	**0.0272**	**0.0292**	**0.0000**	**105.8776**	**105.8776**	**0.0237**	**0.0000**	**106.4690**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0115	0.1035	0.1091	1.9000e-004	1.1900e-003	5.1900e-003	6.3800e-003	3.2000e-004	4.8900e-003	5.2100e-003	0.0000	16.4355	16.4355	3.6300e-003	0.0000	16.5262
2023	0.4109	0.6075	0.7034	1.2200e-003	7.6700e-003	0.0289	0.0366	2.0700e-003	0.0272	0.0292	0.0000	105.8775	105.8775	0.0237	0.0000	106.4689
Maximum	**0.4109**	**0.6075**	**0.7034**	**1.2200e-003**	**7.6700e-003**	**0.0289**	**0.0366**	**2.0700e-003**	**0.0272**	**0.0292**	**0.0000**	**105.8775**	**105.8775**	**0.0237**	**0.0000**	**106.4689**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**11-17-2022**	**2-16-2023**	0.2264	0.2264
2	**2-17-2023**	**5-16-2023**	0.2097	0.2097
3	**5-17-2023**	**8-16-2023**	0.2167	0.2167
4	**8-17-2023**	**9-30-2023**	0.1167	0.1167
		Highest	0.2264	0.2264

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.6891	0.0000	4.6891	0.2771	0.0000	11.6170
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.1232**	**65.4344**	**70.5575**	**0.3250**	**2.1500e-003**	**79.3229**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.6891	0.0000	4.6891	0.2771	0.0000	11.6170
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.1232**	**65.4344**	**70.5575**	**0.3250**	**2.1500e-003**	**79.3229**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	11/17/2022	9/20/2023	5	220	
2	Paving	Paving	9/21/2023	10/4/2023	5	10	
3	Architectural Coating	Architectural Coating	10/5/2023	10/18/2023	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0109	0.0999	0.1047	1.7000e-004		5.1800e-003	5.1800e-003		4.8700e-003	4.8700e-003	0.0000	14.8304	14.8304	3.5500e-003	0.0000	14.9192
Total	**0.0109**	**0.0999**	**0.1047**	**1.7000e-004**		**5.1800e-003**	**5.1800e-003**		**4.8700e-003**	**4.8700e-003**	**0.0000**	**14.8304**	**14.8304**	**3.5500e-003**	**0.0000**	**14.9192**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.1800e-003	7.5000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7445	0.7445	5.0000e-005	0.0000	0.7456
Worker	5.2000e-004	3.5000e-004	3.6100e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8607	0.8607	3.0000e-005	0.0000	0.8614
Total	**6.1000e-004**	**3.5300e-003**	**4.3600e-003**	**2.0000e-005**	**1.1900e-003**	**2.0000e-005**	**1.2000e-003**	**3.2000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.6051**	**1.6051**	**8.0000e-005**	**0.0000**	**1.6069**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0109	0.0999	0.1047	1.7000e-004		5.1800e-003	5.1800e-003		4.8700e-003	4.8700e-003	0.0000	14.8304	14.8304	3.5500e-003	0.0000	14.9192
Total	**0.0109**	**0.0999**	**0.1047**	**1.7000e-004**		**5.1800e-003**	**5.1800e-003**		**4.8700e-003**	**4.8700e-003**	**0.0000**	**14.8304**	**14.8304**	**3.5500e-003**	**0.0000**	**14.9192**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.1800e-003	7.5000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7445	0.7445	5.0000e-005	0.0000	0.7456
Worker	5.2000e-004	3.5000e-004	3.6100e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8607	0.8607	3.0000e-005	0.0000	0.8614
Total	**6.1000e-004**	**3.5300e-003**	**4.3600e-003**	**2.0000e-005**	**1.1900e-003**	**2.0000e-005**	**1.2000e-003**	**3.2000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.6051**	**1.6051**	**8.0000e-005**	**0.0000**	**1.6069**

3.2 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0591	0.5409	0.6108	1.0100e-003		0.0263	0.0263		0.0248	0.0248	0.0000	87.1586	87.1586	0.0207	0.0000	87.6769
Total	**0.0591**	**0.5409**	**0.6108**	**1.0100e-003**		**0.0263**	**0.0263**		**0.0248**	**0.0248**	**0.0000**	**87.1586**	**87.1586**	**0.0207**	**0.0000**	**87.6769**

3.2 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	0.0150	3.8900e-003	4.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	4.2745	4.2745	2.3000e-004	0.0000	4.2804
Worker	2.8600e-003	1.8400e-003	0.0191	5.0000e-005	5.9000e-003	4.0000e-005	5.9400e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.8620	4.8620	1.4000e-004	0.0000	4.8654
Total	**3.2500e-003**	**0.0169**	**0.0230**	**9.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**9.1365**	**9.1365**	**3.7000e-004**	**0.0000**	**9.1458**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0591	0.5409	0.6108	1.0100e-003		0.0263	0.0263		0.0248	0.0248	0.0000	87.1585	87.1585	0.0207	0.0000	87.6768
Total	**0.0591**	**0.5409**	**0.6108**	**1.0100e-003**		**0.0263**	**0.0263**		**0.0248**	**0.0248**	**0.0000**	**87.1585**	**87.1585**	**0.0207**	**0.0000**	**87.6768**

3.2 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	0.0150	3.8900e-003	4.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	4.2745	4.2745	2.3000e-004	0.0000	4.2804
Worker	2.8600e-003	1.8400e-003	0.0191	5.0000e-005	5.9000e-003	4.0000e-005	5.9400e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.8620	4.8620	1.4000e-004	0.0000	4.8654
Total	**3.2500e-003**	**0.0169**	**0.0230**	**9.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**9.1365**	**9.1365**	**3.7000e-004**	**0.0000**	**9.1458**

3.3 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8179
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4000e-003**	**0.0431**	**0.0584**	**9.0000e-005**		**2.1700e-003**	**2.1700e-003**		**2.0000e-003**	**2.0000e-003**	**0.0000**	**7.7564**	**7.7564**	**2.4600e-003**	**0.0000**	**7.8179**

3.3 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.8000e-004	1.9100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4849	0.4849	1.0000e-005	0.0000	0.4853
Total	**2.9000e-004**	**1.8000e-004**	**1.9100e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**0.0000**	**0.4853**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8178
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4000e-003**	**0.0431**	**0.0584**	**9.0000e-005**		**2.1700e-003**	**2.1700e-003**		**2.0000e-003**	**2.0000e-003**	**0.0000**	**7.7564**	**7.7564**	**2.4600e-003**	**0.0000**	**7.8178**

3.3 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.8000e-004	1.9100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4849	0.4849	1.0000e-005	0.0000	0.4853
Total	**2.9000e-004**	**1.8000e-004**	**1.9100e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**0.0000**	**0.4853**

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**0.3438**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

3.4 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0647	0.0647	0.0000	0.0000	0.0647
Total	**4.0000e-005**	**2.0000e-005**	**2.5000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0647**	**0.0647**	**0.0000**	**0.0000**	**0.0647**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**0.3438**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

3.4 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0647	0.0647	0.0000	0.0000	0.0647
Total	**4.0000e-005**	**2.0000e-005**	**2.5000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0647**	**0.0647**	**0.0000**	**0.0000**	**0.0647**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.6891	0.2771	0.0000	11.6170
Unmitigated	4.6891	0.2771	0.0000	11.6170

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.1	4.6891	0.2771	0.0000	11.6170
Total		**4.6891**	**0.2771**	**0.0000**	**11.6170**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.1	4.6891	0.2771	0.0000	11.6170
Total		**4.6891**	**0.2771**	**0.0000**	**11.6170**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Mitigated(Tier 4 Final) Construction-Demolition,Site Prep,Grading,Paving

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.98	Acre	3.98	173,368.80	0
Other Non-Asphalt Surfaces	0.45	Acre	0.45	19,557.00	0
Other Non-Asphalt Surfaces	14.00	Acre	14.00	609,840.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Mitigated(Tier 4 Final) Construction-Demolition,Site Prep,Grading,Paving - Sonoma-San Francisco County, Annual

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - 3.98 acre internal road deducting acreage for 105 lots and 0.45 acres of stormwater treatment area from 14.6 acres of total acres as provided in Project Description and Site Plans.19,557 sqft stormwater treatment area as provided by Applicant.

Construction Phase - Schedule as provided by Applicant in response to request for information form(8/16/19). Construction for Stomwater Treatment Area considered to be building construction activity for conservative analysis.

Trips and VMT -

Demolition - Building (sqft) = 1,824 sqft single-family home as stated in Project Description. Total sqft converted to tons of debris.

Grading - As provided by Applicant in response to request for information form(8/16/19).

Vehicle Trips - Construction Only.

Area Coating - Construction Only.

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.
Tier 4 Final mitigation applied to equipment with 50 HP or greater.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	48166	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	100.00
tblConstructionPhase	NumDays	20.00	70.00
tblGrading	MaterialImported	0.00	1,100.00
tblLandUse	LandUseSquareFeet	19,602.00	19,557.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3589	3.3316	2.8711	6.8400e-003	0.4070	0.1301	0.5371	0.1540	0.1209	0.2749	0.0000	617.6858	617.6858	0.1066	0.0000	620.3513
Maximum	**0.3589**	**3.3316**	**2.8711**	**6.8400e-003**	**0.4070**	**0.1301**	**0.5371**	**0.1540**	**0.1209**	**0.2749**	**0.0000**	**617.6858**	**617.6858**	**0.1066**	**0.0000**	**620.3513**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1635	1.0541	3.0665	6.8400e-003	0.2847	0.0123	0.2970	0.0969	0.0122	0.1091	0.0000	617.6854	617.6854	0.1066	0.0000	620.3509
Maximum	**0.1635**	**1.0541**	**3.0665**	**6.8400e-003**	**0.2847**	**0.0123**	**0.2970**	**0.0969**	**0.0122**	**0.1091**	**0.0000**	**617.6854**	**617.6854**	**0.1066**	**0.0000**	**620.3509**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**54.45**	**68.36**	**-6.80**	**0.00**	**30.04**	**90.53**	**44.70**	**37.09**	**89.94**	**60.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-1-2021**	**6-30-2021**	2.0259	0.4852
2	**7-1-2021**	**9-30-2021**	1.6534	0.7211
		Highest	2.0259	0.7211

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0519	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.0000**	**1.7000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**3.5000e-004**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0519	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.0000**	**1.7000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**3.5000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Mitigated(Tier 4 Final) Construction-Demolition,Site Prep,Grading,Paving - Sonoma-San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2021	4/28/2021	5	20	
2	Site Preparation	Site Preparation	4/29/2021	5/12/2021	5	10	
3	Grading	Grading	5/13/2021	6/23/2021	5	30	
4	Stormwater Treatment Area	Building Construction	5/13/2021	9/29/2021	5	100	
5	Paving	Paving	6/24/2021	9/29/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 18.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Mitigated(Tier 4 Final) Construction-Demolition,Site Prep,Grading,Paving - Sonoma-San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stormwater Treatment Area	Cranes	1	7.00	231	0.29
Stormwater Treatment Area	Forklifts	3	8.00	89	0.20
Stormwater Treatment Area	Generator Sets	1	8.00	84	0.74
Stormwater Treatment Area	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Stormwater Treatment Area	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	17.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	138.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Stormwater Treatment Area	9	337.00	132.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7900e-003	0.0000	1.7900e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**1.7900e-003**	**0.0155**	**0.0173**	**2.7000e-004**	**0.0144**	**0.0147**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.3100e-003	4.9000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.6462	0.6462	4.0000e-005	0.0000	0.6472
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.6000e-004	4.7300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0469	1.0469	4.0000e-005	0.0000	1.0478
Total	**7.2000e-004**	**2.7700e-003**	**5.2200e-003**	**2.0000e-005**	**1.3200e-003**	**2.0000e-005**	**1.3400e-003**	**3.5000e-004**	**2.0000e-005**	**3.7000e-004**	**0.0000**	**1.6932**	**1.6932**	**8.0000e-005**	**0.0000**	**1.6950**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0200	0.2328	3.9000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**4.6200e-003**	**0.0200**	**0.2328**	**3.9000e-004**	**8.0000e-004**	**6.2000e-004**	**1.4200e-003**	**1.2000e-004**	**6.2000e-004**	**7.4000e-004**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.3100e-003	4.9000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.6462	0.6462	4.0000e-005	0.0000	0.6472
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.6000e-004	4.7300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0469	1.0469	4.0000e-005	0.0000	1.0478
Total	**7.2000e-004**	**2.7700e-003**	**5.2200e-003**	**2.0000e-005**	**1.3200e-003**	**2.0000e-005**	**1.3400e-003**	**3.5000e-004**	**2.0000e-005**	**3.7000e-004**	**0.0000**	**1.6932**	**1.6932**	**8.0000e-005**	**0.0000**	**1.6950**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.8000e-004	2.8400e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6282	0.6282	2.0000e-005	0.0000	0.6287
Total	**4.0000e-004**	**2.8000e-004**	**2.8400e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6282**	**0.6282**	**2.0000e-005**	**0.0000**	**0.6287**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**2.3300e-003**	**0.0101**	**0.1043**	**1.9000e-004**	**0.0407**	**3.1000e-004**	**0.0410**	**0.0223**	**3.1000e-004**	**0.0227**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.8000e-004	2.8400e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6282	0.6282	2.0000e-005	0.0000	0.6287
Total	**4.0000e-004**	**2.8000e-004**	**2.8400e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6282**	**0.6282**	**2.0000e-005**	**0.0000**	**0.6287**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1302	0.0000	0.1302	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.1302**	**0.0298**	**0.1599**	**0.0540**	**0.0274**	**0.0814**	**0.0000**	**81.7425**	**81.7425**	**0.0264**	**0.0000**	**82.4034**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0188	3.9900e-003	5.0000e-005	1.1400e-003	6.0000e-005	1.2100e-003	3.1000e-004	6.0000e-005	3.7000e-004	0.0000	5.2459	5.2459	3.2000e-004	0.0000	5.2540
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	9.3000e-004	9.4500e-003	2.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.0939	2.0939	7.0000e-005	0.0000	2.0956
Total	**1.8500e-003**	**0.0197**	**0.0134**	**7.0000e-005**	**3.4900e-003**	**8.0000e-005**	**3.5800e-003**	**9.4000e-004**	**8.0000e-005**	**1.0100e-003**	**0.0000**	**7.3398**	**7.3398**	**3.9000e-004**	**0.0000**	**7.3496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0586	0.0000	0.0586	0.0243	0.0000	0.0243	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0495	0.4950	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	**0.0114**	**0.0495**	**0.4950**	**9.3000e-004**	**0.0586**	**1.5200e-003**	**0.0601**	**0.0243**	**1.5200e-003**	**0.0258**	**0.0000**	**81.7424**	**81.7424**	**0.0264**	**0.0000**	**82.4033**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0188	3.9900e-003	5.0000e-005	1.1400e-003	6.0000e-005	1.2100e-003	3.1000e-004	6.0000e-005	3.7000e-004	0.0000	5.2459	5.2459	3.2000e-004	0.0000	5.2540
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	9.3000e-004	9.4500e-003	2.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.0939	2.0939	7.0000e-005	0.0000	2.0956
Total	**1.8500e-003**	**0.0197**	**0.0134**	**7.0000e-005**	**3.4900e-003**	**8.0000e-005**	**3.5800e-003**	**9.4000e-004**	**8.0000e-005**	**1.0100e-003**	**0.0000**	**7.3398**	**7.3398**	**3.9000e-004**	**0.0000**	**7.3496**

3.5 Stormwater Treatment Area - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8186	115.8186	0.0279	0.0000	116.5172
Total	**0.0951**	**0.8716**	**0.8288**	**1.3500e-003**		**0.0479**	**0.0479**		**0.0451**	**0.0451**	**0.0000**	**115.8186**	**115.8186**	**0.0279**	**0.0000**	**116.5172**

3.5 Stormwater Treatment Area - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0210	0.7186	0.1759	1.7400e-003	0.0428	1.8000e-003	0.0446	0.0124	1.7200e-003	0.0141	0.0000	168.3935	168.3935	0.0100	0.0000	168.6437
Worker	0.0745	0.0521	0.5309	1.3000e-003	0.1322	1.0300e-003	0.1333	0.0352	9.5000e-004	0.0362	0.0000	117.6050	117.6050	3.9800e-003	0.0000	117.7045
Total	**0.0955**	**0.7706**	**0.7069**	**3.0400e-003**	**0.1750**	**2.8300e-003**	**0.1779**	**0.0476**	**2.6700e-003**	**0.0502**	**0.0000**	**285.9985**	**285.9985**	**0.0140**	**0.0000**	**286.3481**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0293	0.1370	0.8841	1.3500e-003		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	115.8185	115.8185	0.0279	0.0000	116.5171
Total	**0.0293**	**0.1370**	**0.8841**	**1.3500e-003**		**5.6000e-003**	**5.6000e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**115.8185**	**115.8185**	**0.0279**	**0.0000**	**116.5171**

3.5 Stormwater Treatment Area - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0210	0.7186	0.1759	1.7400e-003	0.0428	1.8000e-003	0.0446	0.0124	1.7200e-003	0.0141	0.0000	168.3935	168.3935	0.0100	0.0000	168.6437
Worker	0.0745	0.0521	0.5309	1.3000e-003	0.1322	1.0300e-003	0.1333	0.0352	9.5000e-004	0.0362	0.0000	117.6050	117.6050	3.9800e-003	0.0000	117.7045
Total	**0.0955**	**0.7706**	**0.7069**	**3.0400e-003**	**0.1750**	**2.8300e-003**	**0.1779**	**0.0476**	**2.6700e-003**	**0.0502**	**0.0000**	**285.9985**	**285.9985**	**0.0140**	**0.0000**	**286.3481**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0439	0.4522	0.5129	8.0000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	70.0822	70.0822	0.0227	0.0000	70.6488
Paving	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0492**	**0.4522**	**0.5129**	**8.0000e-004**		**0.0237**	**0.0237**		**0.0218**	**0.0218**	**0.0000**	**70.0822**	**70.0822**	**0.0227**	**0.0000**	**70.6488**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3200e-003	1.6200e-003	0.0165	4.0000e-005	4.1200e-003	3.0000e-005	4.1500e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.6643	3.6643	1.2000e-004	0.0000	3.6674
Total	**2.3200e-003**	**1.6200e-003**	**0.0165**	**4.0000e-005**	**4.1200e-003**	**3.0000e-005**	**4.1500e-003**	**1.1000e-003**	**3.0000e-005**	**1.1300e-003**	**0.0000**	**3.6643**	**3.6643**	**1.2000e-004**	**0.0000**	**3.6674**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8200e-003	0.0425	0.6054	8.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	70.0821	70.0821	0.0227	0.0000	70.6488
Paving	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0150**	**0.0425**	**0.6054**	**8.0000e-004**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**	**0.0000**	**70.0821**	**70.0821**	**0.0227**	**0.0000**	**70.6488**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3200e-003	1.6200e-003	0.0165	4.0000e-005	4.1200e-003	3.0000e-005	4.1500e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.6643	3.6643	1.2000e-004	0.0000	3.6674
Total	**2.3200e-003**	**1.6200e-003**	**0.0165**	**4.0000e-005**	**4.1200e-003**	**3.0000e-005**	**4.1500e-003**	**1.1000e-003**	**3.0000e-005**	**1.1300e-003**	**0.0000**	**3.6643**	**3.6643**	**1.2000e-004**	**0.0000**	**3.6674**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Other Non-Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0519	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Unmitigated	0.0519	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Total	**0.0519**	**0.0000**	**1.7000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**3.5000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Total	**0.0519**	**0.0000**	**1.7000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**3.3000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**3.5000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Mitigated(Tier 4 Final) Construction-Homes 1-21

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	56

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Mitigated(Tier 4 Final) Construction-Homes 1-21 - Sonoma-San Francisco County, Annual

Project Characteristics - .CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form (8/16/19).

Land Use - Building Construction for 21 units. Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit (City of Santa Rosa).

Construction Phase - As provided by Applicant in response to request for information form (8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Demolition -

Grading -

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.
Tier 4 Final mitigation applied to equipment with 50 HP or greater.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	56.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20

tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0269	0.2417	0.2323	4.0000e-004	2.5400e-003	0.0129	0.0154	6.9000e-004	0.0121	0.0128	0.0000	34.6194	34.6194	7.6500e-003	0.0000	34.8107
2022	0.4041	0.5493	0.5917	1.0200e-003	6.4600e-003	0.0277	0.0341	1.7400e-003	0.0260	0.0278	0.0000	88.4937	88.4937	0.0199	0.0000	88.9912
Maximum	**0.4041**	**0.5493**	**0.5917**	**1.0200e-003**	**6.4600e-003**	**0.0277**	**0.0341**	**1.7400e-003**	**0.0260**	**0.0278**	**0.0000**	**88.4937**	**88.4937**	**0.0199**	**0.0000**	**88.9912**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	9.2600e-003	0.0448	0.2472	4.0000e-004	2.5400e-003	1.5400e-003	4.0700e-003	6.9000e-004	1.5300e-003	2.2200e-003	0.0000	34.6193	34.6193	7.6500e-003	0.0000	34.8107
2022	0.3648	0.1072	0.6394	1.0200e-003	6.4600e-003	3.4200e-003	9.8800e-003	1.7400e-003	3.4200e-003	5.1600e-003	0.0000	88.4936	88.4936	0.0199	0.0000	88.9911
Maximum	**0.3648**	**0.1072**	**0.6394**	**1.0200e-003**	**6.4600e-003**	**3.4200e-003**	**9.8800e-003**	**1.7400e-003**	**3.4200e-003**	**5.1600e-003**	**0.0000**	**88.4936**	**88.4936**	**0.0199**	**0.0000**	**88.9911**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**13.20**	**80.78**	**-7.58**	**0.00**	**0.00**	**87.77**	**71.85**	**0.00**	**87.02**	**81.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-30-2021**	**12-29-2021**	0.2608	0.0527
2	**12-30-2021**	**3-29-2022**	0.2321	0.0507
3	**3-30-2022**	**6-29-2022**	0.2363	0.0515
4	**6-30-2022**	**9-29-2022**	0.4927	0.3715
		Highest	0.4927	0.3715

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	9/30/2021	8/3/2022	5	220	
2	Paving	Paving	8/4/2022	8/17/2022	5	10	
3	Architectural Coating	Architectural Coating	8/18/2022	8/31/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0255	0.2336	0.2221	3.6000e-004		0.0129	0.0129		0.0121	0.0121	0.0000	31.0394	31.0394	7.4900e-003	0.0000	31.2266
Total	**0.0255**	**0.2336**	**0.2221**	**3.6000e-004**		**0.0129**	**0.0129**		**0.0121**	**0.0121**	**0.0000**	**31.0394**	**31.0394**	**7.4900e-003**	**0.0000**	**31.2266**

3.2 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.2900e-003	1.7900e-003	2.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.3000e-004	2.0000e-005	1.4000e-004	0.0000	1.7095	1.7095	1.0000e-004	0.0000	1.7120
Worker	1.1800e-003	8.3000e-004	8.4400e-003	2.0000e-005	2.1000e-003	2.0000e-005	2.1200e-003	5.6000e-004	2.0000e-005	5.7000e-004	0.0000	1.8705	1.8705	6.0000e-005	0.0000	1.8721
Total	**1.3900e-003**	**8.1200e-003**	**0.0102**	**4.0000e-005**	**2.5300e-003**	**4.0000e-005**	**2.5700e-003**	**6.9000e-004**	**4.0000e-005**	**7.1000e-004**	**0.0000**	**3.5800**	**3.5800**	**1.6000e-004**	**0.0000**	**3.5841**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.8600e-003	0.0367	0.2369	3.6000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	31.0394	31.0394	7.4900e-003	0.0000	31.2266
Total	**7.8600e-003**	**0.0367**	**0.2369**	**3.6000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**	**0.0000**	**31.0394**	**31.0394**	**7.4900e-003**	**0.0000**	**31.2266**

3.2 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.2900e-003	1.7900e-003	2.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.3000e-004	2.0000e-005	1.4000e-004	0.0000	1.7095	1.7095	1.0000e-004	0.0000	1.7120
Worker	1.1800e-003	8.3000e-004	8.4400e-003	2.0000e-005	2.1000e-003	2.0000e-005	2.1200e-003	5.6000e-004	2.0000e-005	5.7000e-004	0.0000	1.8705	1.8705	6.0000e-005	0.0000	1.8721
Total	**1.3900e-003**	**8.1200e-003**	**0.0102**	**4.0000e-005**	**2.5300e-003**	**4.0000e-005**	**2.5700e-003**	**6.9000e-004**	**4.0000e-005**	**7.1000e-004**	**0.0000**	**3.5800**	**3.5800**	**1.6000e-004**	**0.0000**	**3.5841**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0522	0.4778	0.5007	8.2000e-004		0.0248	0.0248		0.0233	0.0233	0.0000	70.9079	70.9079	0.0170	0.0000	71.3326
Total	**0.0522**	**0.4778**	**0.5007**	**8.2000e-004**		**0.0248**	**0.0248**		**0.0233**	**0.0233**	**0.0000**	**70.9079**	**70.9079**	**0.0170**	**0.0000**	**71.3326**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0158	3.7400e-003	4.0000e-005	9.9000e-004	4.0000e-005	1.0300e-003	2.9000e-004	3.0000e-005	3.2000e-004	0.0000	3.8674	3.8674	2.3000e-004	0.0000	3.8731
Worker	2.5100e-003	1.6800e-003	0.0173	5.0000e-005	4.8000e-003	4.0000e-005	4.8400e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.1152	4.1152	1.3000e-004	0.0000	4.1184
Total	**2.9600e-003**	**0.0175**	**0.0210**	**9.0000e-005**	**5.7900e-003**	**8.0000e-005**	**5.8700e-003**	**1.5700e-003**	**6.0000e-005**	**1.6300e-003**	**0.0000**	**7.9826**	**7.9826**	**3.6000e-004**	**0.0000**	**7.9914**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0172	0.0824	0.5404	8.2000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	70.9078	70.9078	0.0170	0.0000	71.3325
Total	**0.0172**	**0.0824**	**0.5404**	**8.2000e-004**		**3.1100e-003**	**3.1100e-003**		**3.1100e-003**	**3.1100e-003**	**0.0000**	**70.9078**	**70.9078**	**0.0170**	**0.0000**	**71.3325**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0158	3.7400e-003	4.0000e-005	9.9000e-004	4.0000e-005	1.0300e-003	2.9000e-004	3.0000e-005	3.2000e-004	0.0000	3.8674	3.8674	2.3000e-004	0.0000	3.8731
Worker	2.5100e-003	1.6800e-003	0.0173	5.0000e-005	4.8000e-003	4.0000e-005	4.8400e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.1152	4.1152	1.3000e-004	0.0000	4.1184
Total	**2.9600e-003**	**0.0175**	**0.0210**	**9.0000e-005**	**5.7900e-003**	**8.0000e-005**	**5.8700e-003**	**1.5700e-003**	**6.0000e-005**	**1.6300e-003**	**0.0000**	**7.9826**	**7.9826**	**3.6000e-004**	**0.0000**	**7.9914**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3500e-003	6.4000e-003	0.0664	9.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3500e-003**	**6.4000e-003**	**0.0664**	**9.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3430**	**6.4000e-004**	**9.1600e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7744	0.2822	0.0000	11.8282
Unmitigated	4.7744	0.2822	0.0000	11.8282

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Mitigated(Tier 4 Final) Construction-Homes 22-42

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	56

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Mitigated(Tier 4 Final) Construction-Homes 22-42 - Sonoma-San Francisco County, Annual

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - Building Construction for 21 units. Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit (City of Santa Rosa).

Construction Phase - As provided by Applicant in response to request for information form (8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Demolition -

Grading -

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.
Tier 4 Final mitigation applied to equipment with 50 HP or greater.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	56.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20

tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0758	0.6810	0.6552	1.1200e-003	7.0400e-003	0.0363	0.0434	1.9000e-003	0.0342	0.0361	0.0000	97.2731	97.2731	0.0216	0.0000	97.8126
2022	0.3601	0.1542	0.1756	2.9000e-004	1.8200e-003	7.8800e-003	9.7000e-003	4.9000e-004	7.4000e-003	7.8800e-003	0.0000	25.5251	25.5251	6.0700e-003	0.0000	25.6769
Maximum	**0.3601**	**0.6810**	**0.6552**	**1.1200e-003**	**7.0400e-003**	**0.0363**	**0.0434**	**1.9000e-003**	**0.0342**	**0.0361**	**0.0000**	**97.2731**	**97.2731**	**0.0216**	**0.0000**	**97.8126**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0261	0.1256	0.6970	1.1200e-003	7.0400e-003	4.3300e-003	0.0114	1.9000e-003	4.3200e-003	6.2200e-003	0.0000	97.2730	97.2730	0.0216	0.0000	97.8125
2022	0.3488	0.0274	0.1917	2.9000e-004	1.8200e-003	8.8000e-004	2.7000e-003	4.9000e-004	8.8000e-004	1.3700e-003	0.0000	25.5251	25.5251	6.0700e-003	0.0000	25.6769
Maximum	**0.3488**	**0.1256**	**0.6970**	**1.1200e-003**	**7.0400e-003**	**4.3300e-003**	**0.0114**	**1.9000e-003**	**4.3200e-003**	**6.2200e-003**	**0.0000**	**97.2730**	**97.2730**	**0.0216**	**0.0000**	**97.8125**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**14.00**	**81.68**	**-6.97**	**0.00**	**0.00**	**88.22**	**73.49**	**0.00**	**87.49**	**82.73**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-13-2021**	**7-12-2021**	0.2601	0.0521
2	**7-13-2021**	**10-12-2021**	0.2630	0.0527
3	**10-13-2021**	**1-12-2022**	0.2598	0.0528
4	**1-13-2022**	**4-12-2022**	0.4877	0.3705
		Highest	0.4877	0.3705

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/13/2021	2/14/2022	5	220	
2	Paving	Paving	2/15/2022	2/28/2022	5	10	
3	Architectural Coating	Architectural Coating	3/1/2022	3/14/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0719	0.6589	0.6265	1.0200e-003		0.0362	0.0362		0.0341	0.0341	0.0000	87.5589	87.5589	0.0211	0.0000	88.0870
Total	**0.0719**	**0.6589**	**0.6265**	**1.0200e-003**		**0.0362**	**0.0362**		**0.0341**	**0.0341**	**0.0000**	**87.5589**	**87.5589**	**0.0211**	**0.0000**	**88.0870**

3.2 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0197	4.8200e-003	5.0000e-005	1.1100e-003	5.0000e-005	1.1600e-003	3.2000e-004	5.0000e-005	3.7000e-004	0.0000	4.4377	4.4377	2.8000e-004	0.0000	4.4446
Worker	3.3400e-003	2.3400e-003	0.0238	6.0000e-005	5.9300e-003	5.0000e-005	5.9800e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.2765	5.2765	1.8000e-004	0.0000	5.2810
Total	**3.9100e-003**	**0.0221**	**0.0286**	**1.1000e-004**	**7.0400e-003**	**1.0000e-004**	**7.1400e-003**	**1.9000e-003**	**9.0000e-005**	**1.9900e-003**	**0.0000**	**9.7142**	**9.7142**	**4.6000e-004**	**0.0000**	**9.7256**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0222	0.1036	0.6684	1.0200e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003	0.0000	87.5588	87.5588	0.0211	0.0000	88.0869
Total	**0.0222**	**0.1036**	**0.6684**	**1.0200e-003**		**4.2300e-003**	**4.2300e-003**		**4.2300e-003**	**4.2300e-003**	**0.0000**	**87.5588**	**87.5588**	**0.0211**	**0.0000**	**88.0869**

3.2 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0197	4.8200e-003	5.0000e-005	1.1100e-003	5.0000e-005	1.1600e-003	3.2000e-004	5.0000e-005	3.7000e-004	0.0000	4.4377	4.4377	2.8000e-004	0.0000	4.4446
Worker	3.3400e-003	2.3400e-003	0.0238	6.0000e-005	5.9300e-003	5.0000e-005	5.9800e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.2765	5.2765	1.8000e-004	0.0000	5.2810
Total	**3.9100e-003**	**0.0221**	**0.0286**	**1.1000e-004**	**7.0400e-003**	**1.0000e-004**	**7.1400e-003**	**1.9000e-003**	**9.0000e-005**	**1.9900e-003**	**0.0000**	**9.7142**	**9.7142**	**4.6000e-004**	**0.0000**	**9.7256**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0106	0.0968	0.1015	1.7000e-004		5.0200e-003	5.0200e-003		4.7200e-003	4.7200e-003	0.0000	14.3670	14.3670	3.4400e-003	0.0000	14.4530
Total	**0.0106**	**0.0968**	**0.1015**	**1.7000e-004**		**5.0200e-003**	**5.0200e-003**		**4.7200e-003**	**4.7200e-003**	**0.0000**	**14.3670**	**14.3670**	**3.4400e-003**	**0.0000**	**14.4530**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.0800e-003	7.2000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7212	0.7212	4.0000e-005	0.0000	0.7223
Worker	5.1000e-004	3.4000e-004	3.5000e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8338	0.8338	3.0000e-005	0.0000	0.8344
Total	**6.0000e-004**	**3.4200e-003**	**4.2200e-003**	**2.0000e-005**	**1.1500e-003**	**2.0000e-005**	**1.1700e-003**	**3.1000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.5550**	**1.5550**	**7.0000e-005**	**0.0000**	**1.5567**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4800e-003	0.0167	0.1095	1.7000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	14.3670	14.3670	3.4400e-003	0.0000	14.4530
Total	**3.4800e-003**	**0.0167**	**0.1095**	**1.7000e-004**		**6.3000e-004**	**6.3000e-004**		**6.3000e-004**	**6.3000e-004**	**0.0000**	**14.3670**	**14.3670**	**3.4400e-003**	**0.0000**	**14.4530**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.0800e-003	7.2000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7212	0.7212	4.0000e-005	0.0000	0.7223
Worker	5.1000e-004	3.4000e-004	3.5000e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8338	0.8338	3.0000e-005	0.0000	0.8344
Total	**6.0000e-004**	**3.4200e-003**	**4.2200e-003**	**2.0000e-005**	**1.1500e-003**	**2.0000e-005**	**1.1700e-003**	**3.1000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.5550**	**1.5550**	**7.0000e-005**	**0.0000**	**1.5567**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3500e-003	6.4000e-003	0.0664	9.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3500e-003**	**6.4000e-003**	**0.0664**	**9.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3430**	**6.4000e-004**	**9.1600e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7744	0.2822	0.0000	11.8282
Unmitigated	4.7744	0.2822	0.0000	11.8282

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Mitigated(Tier 4 Final) Construction-Homes 43-63

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	56

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Mitigated(Tier 4 Final) Construction-Homes 43-63 - Sonoma-San Francisco County, Annual

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - Building Construction for 21 units. Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit (City of Santa Rosa).

Construction Phase - As provided by Applicant in response to request for information(8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.
Tier 4 Final mitigation applied to equipment with 50 HP or greater.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	56.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	9.91	0.00

tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0201	0.1804	0.1734	3.0000e-004	1.8900e-003	9.6100e-003	0.0115	5.1000e-004	9.0400e-003	9.5500e-003	0.0000	25.8353	25.8353	5.7100e-003	0.0000	25.9781
2022	0.4102	0.6043	0.6497	1.1200e-003	7.1100e-003	0.0304	0.0376	1.9200e-003	0.0286	0.0305	0.0000	97.2593	97.2593	0.0218	0.0000	97.8050
Maximum	**0.4102**	**0.6043**	**0.6497**	**1.1200e-003**	**7.1100e-003**	**0.0304**	**0.0376**	**1.9200e-003**	**0.0286**	**0.0305**	**0.0000**	**97.2593**	**97.2593**	**0.0218**	**0.0000**	**97.8050**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	6.9100e-003	0.0335	0.1845	3.0000e-004	1.8900e-003	1.1500e-003	3.0400e-003	5.1000e-004	1.1400e-003	1.6600e-003	0.0000	25.8353	25.8353	5.7100e-003	0.0000	25.9781
2022	0.3670	0.1183	0.7017	1.1200e-003	7.1100e-003	3.7800e-003	0.0109	1.9200e-003	3.7700e-003	5.6900e-003	0.0000	97.2592	97.2592	0.0218	0.0000	97.8049
Maximum	**0.3670**	**0.1183**	**0.7017**	**1.1200e-003**	**7.1100e-003**	**3.7800e-003**	**0.0109**	**1.9200e-003**	**3.7700e-003**	**5.6900e-003**	**0.0000**	**97.2592**	**97.2592**	**0.0218**	**0.0000**	**97.8049**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**13.09**	**80.66**	**-7.67**	**0.00**	**0.00**	**87.69**	**71.63**	**0.00**	**86.96**	**81.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-25-2021**	**1-24-2022**	0.2566	0.0529
2	**1-25-2022**	**4-24-2022**	0.2314	0.0505
3	**4-25-2022**	**7-24-2022**	0.2338	0.0509
4	**7-25-2022**	**9-30-2022**	0.4876	0.3704
		Highest	0.4876	0.3704

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	10/25/2021	8/26/2022	5	220	
2	Paving	Paving	8/27/2022	9/9/2022	5	10	
3	Architectural Coating	Architectural Coating	9/10/2022	9/23/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0190	0.1743	0.1658	2.7000e-004		9.5900e-003	9.5900e-003		9.0100e-003	9.0100e-003	0.0000	23.1637	23.1637	5.5900e-003	0.0000	23.3034
Total	**0.0190**	**0.1743**	**0.1658**	**2.7000e-004**		**9.5900e-003**	**9.5900e-003**		**9.0100e-003**	**9.0100e-003**	**0.0000**	**23.1637**	**23.1637**	**5.5900e-003**	**0.0000**	**23.3034**

3.2 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.4400e-003	1.3300e-003	1.0000e-005	3.2000e-004	1.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	1.2757	1.2757	8.0000e-005	0.0000	1.2776
Worker	8.8000e-004	6.2000e-004	6.3000e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3959	1.3959	5.0000e-005	0.0000	1.3971
Total	**1.0400e-003**	**6.0600e-003**	**7.6300e-003**	**3.0000e-005**	**1.8900e-003**	**2.0000e-005**	**1.9200e-003**	**5.1000e-004**	**2.0000e-005**	**5.4000e-004**	**0.0000**	**2.6716**	**2.6716**	**1.3000e-004**	**0.0000**	**2.6747**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8700e-003	0.0274	0.1768	2.7000e-004		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	23.1637	23.1637	5.5900e-003	0.0000	23.3034
Total	**5.8700e-003**	**0.0274**	**0.1768**	**2.7000e-004**		**1.1200e-003**	**1.1200e-003**		**1.1200e-003**	**1.1200e-003**	**0.0000**	**23.1637**	**23.1637**	**5.5900e-003**	**0.0000**	**23.3034**

3.2 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.4400e-003	1.3300e-003	1.0000e-005	3.2000e-004	1.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	1.2757	1.2757	8.0000e-005	0.0000	1.2776
Worker	8.8000e-004	6.2000e-004	6.3000e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3959	1.3959	5.0000e-005	0.0000	1.3971
Total	**1.0400e-003**	**6.0600e-003**	**7.6300e-003**	**3.0000e-005**	**1.8900e-003**	**2.0000e-005**	**1.9200e-003**	**5.1000e-004**	**2.0000e-005**	**5.4000e-004**	**0.0000**	**2.6716**	**2.6716**	**1.3000e-004**	**0.0000**	**2.6747**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0580	0.5309	0.5564	9.2000e-004		0.0275	0.0275		0.0259	0.0259	0.0000	78.7866	78.7866	0.0189	0.0000	79.2585
Total	**0.0580**	**0.5309**	**0.5564**	**9.2000e-004**		**0.0275**	**0.0275**		**0.0259**	**0.0259**	**0.0000**	**78.7866**	**78.7866**	**0.0189**	**0.0000**	**79.2585**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0176	4.1600e-003	4.0000e-005	1.1000e-003	4.0000e-005	1.1400e-003	3.2000e-004	4.0000e-005	3.6000e-004	0.0000	4.2971	4.2971	2.5000e-004	0.0000	4.3034
Worker	2.7800e-003	1.8700e-003	0.0192	5.0000e-005	5.3400e-003	4.0000e-005	5.3800e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.5724	4.5724	1.4000e-004	0.0000	4.5760
Total	**3.2800e-003**	**0.0195**	**0.0234**	**9.0000e-005**	**6.4400e-003**	**8.0000e-005**	**6.5200e-003**	**1.7400e-003**	**8.0000e-005**	**1.8200e-003**	**0.0000**	**8.8695**	**8.8695**	**3.9000e-004**	**0.0000**	**8.8794**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0191	0.0916	0.6004	9.2000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	78.7865	78.7865	0.0189	0.0000	79.2584
Total	**0.0191**	**0.0916**	**0.6004**	**9.2000e-004**		**3.4600e-003**	**3.4600e-003**		**3.4600e-003**	**3.4600e-003**	**0.0000**	**78.7865**	**78.7865**	**0.0189**	**0.0000**	**79.2584**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0176	4.1600e-003	4.0000e-005	1.1000e-003	4.0000e-005	1.1400e-003	3.2000e-004	4.0000e-005	3.6000e-004	0.0000	4.2971	4.2971	2.5000e-004	0.0000	4.3034
Worker	2.7800e-003	1.8700e-003	0.0192	5.0000e-005	5.3400e-003	4.0000e-005	5.3800e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.5724	4.5724	1.4000e-004	0.0000	4.5760
Total	**3.2800e-003**	**0.0195**	**0.0234**	**9.0000e-005**	**6.4400e-003**	**8.0000e-005**	**6.5200e-003**	**1.7400e-003**	**8.0000e-005**	**1.8200e-003**	**0.0000**	**8.8695**	**8.8695**	**3.9000e-004**	**0.0000**	**8.8794**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.7100e-003**	**0.0467**	**0.0585**	**9.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3500e-003	6.4000e-003	0.0664	9.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3500e-003**	**6.4000e-003**	**0.0664**	**9.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**7.7550**	**7.7550**	**2.4600e-003**	**0.0000**	**7.8165**

3.3 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.1200e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5043	0.5043	2.0000e-005	0.0000	0.5047
Total	**3.1000e-004**	**2.1000e-004**	**2.1200e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5043**	**0.5043**	**2.0000e-005**	**0.0000**	**0.5047**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3439**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3430**	**6.4000e-004**	**9.1600e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0672	0.0672	0.0000	0.0000	0.0673
Total	**4.0000e-005**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0672**	**0.0672**	**0.0000**	**0.0000**	**0.0673**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7744	0.2822	0.0000	11.8282
Unmitigated	4.7744	0.2822	0.0000	11.8282

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Mitigated (Tier 4 Final)Construction-Homes 64-84

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	56

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Mitigated (Tier 4 Final)Construction-Homes 64-84 - Sonoma-San Francisco County, Annual

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - Building Construction for 21 units. Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit (City of Santa Rosa).

Construction Phase - As provided by Applicant in response to request for information form(8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.
Tier 4 Final mitigation applied to equipment with 50 HP or greater.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	56.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0616	0.5529	0.5829	1.0100e-003	6.3700e-003	0.0278	0.0341	1.7200e-003	0.0261	0.0278	0.0000	87.8275	87.8275	0.0194	0.0000	88.3118
2023	0.3648	0.1951	0.2348	4.0000e-004	2.4900e-003	9.4000e-003	0.0119	6.7000e-004	8.8300e-003	9.5000e-003	0.0000	34.6808	34.6808	8.0500e-003	0.0000	34.8820
Maximum	**0.3648**	**0.5529**	**0.5829**	**1.0100e-003**	**6.3700e-003**	**0.0278**	**0.0341**	**1.7200e-003**	**0.0261**	**0.0278**	**0.0000**	**87.8275**	**87.8275**	**0.0194**	**0.0000**	**88.3118**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0225	0.1110	0.6273	1.0100e-003	6.3700e-003	3.5600e-003	9.9300e-003	1.7200e-003	3.5500e-003	5.2700e-003	0.0000	87.8274	87.8274	0.0194	0.0000	88.3117
2023	0.3508	0.0376	0.2566	4.0000e-004	2.4900e-003	1.1600e-003	3.6600e-003	6.7000e-004	1.1600e-003	1.8300e-003	0.0000	34.6807	34.6807	8.0500e-003	0.0000	34.8820
Maximum	**0.3508**	**0.1110**	**0.6273**	**1.0100e-003**	**6.3700e-003**	**3.5600e-003**	**9.9300e-003**	**1.7200e-003**	**3.5500e-003**	**5.2700e-003**	**0.0000**	**87.8274**	**87.8274**	**0.0194**	**0.0000**	**88.3117**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**12.47**	**80.13**	**-8.08**	**0.00**	**0.00**	**87.29**	**70.46**	**0.00**	**86.52**	**80.98**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-6-2022**	**8-5-2022**	0.2361	0.0512
2	**8-6-2022**	**11-5-2022**	0.2362	0.0513
3	**11-6-2022**	**2-5-2023**	0.2288	0.0506
4	**2-6-2023**	**5-5-2023**	0.4738	0.3690
		Highest	0.4738	0.3690

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.7744	0.0000	4.7744	0.2822	0.0000	11.8282
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.2084**	**65.4344**	**70.6428**	**0.3300**	**2.1500e-003**	**79.5341**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	5/6/2022	3/9/2023	5	220	
2	Paving	Paving	3/10/2023	3/23/2023	5	10	
3	Architectural Coating	Architectural Coating	3/24/2023	4/6/2023	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0584	0.5341	0.5596	9.2000e-004		0.0277	0.0277		0.0260	0.0260	0.0000	79.2500	79.2500	0.0190	0.0000	79.7247
Total	**0.0584**	**0.5341**	**0.5596**	**9.2000e-004**		**0.0277**	**0.0277**		**0.0260**	**0.0260**	**0.0000**	**79.2500**	**79.2500**	**0.0190**	**0.0000**	**79.7247**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	0.0170	3.9900e-003	4.0000e-005	1.0000e-003	4.0000e-005	1.0400e-003	2.9000e-004	4.0000e-005	3.3000e-004	0.0000	3.9781	3.9781	2.4000e-004	0.0000	3.9842
Worker	2.8000e-003	1.8800e-003	0.0193	5.0000e-005	5.3700e-003	4.0000e-005	5.4100e-003	1.4300e-003	4.0000e-005	1.4700e-003	0.0000	4.5993	4.5993	1.4000e-004	0.0000	4.6029
Total	**3.2700e-003**	**0.0189**	**0.0233**	**9.0000e-005**	**6.3700e-003**	**8.0000e-005**	**6.4500e-003**	**1.7200e-003**	**8.0000e-005**	**1.8000e-003**	**0.0000**	**8.5775**	**8.5775**	**3.8000e-004**	**0.0000**	**8.5871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0192	0.0921	0.6039	9.2000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	79.2499	79.2499	0.0190	0.0000	79.7246
Total	**0.0192**	**0.0921**	**0.6039**	**9.2000e-004**		**3.4800e-003**	**3.4800e-003**		**3.4800e-003**	**3.4800e-003**	**0.0000**	**79.2499**	**79.2499**	**0.0190**	**0.0000**	**79.7246**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	0.0170	3.9900e-003	4.0000e-005	1.0000e-003	4.0000e-005	1.0400e-003	2.9000e-004	4.0000e-005	3.3000e-004	0.0000	3.9781	3.9781	2.4000e-004	0.0000	3.9842
Worker	2.8000e-003	1.8800e-003	0.0193	5.0000e-005	5.3700e-003	4.0000e-005	5.4100e-003	1.4300e-003	4.0000e-005	1.4700e-003	0.0000	4.5993	4.5993	1.4000e-004	0.0000	4.6029
Total	**3.2700e-003**	**0.0189**	**0.0233**	**9.0000e-005**	**6.3700e-003**	**8.0000e-005**	**6.4500e-003**	**1.7200e-003**	**8.0000e-005**	**1.8000e-003**	**0.0000**	**8.5775**	**8.5775**	**3.8000e-004**	**0.0000**	**8.5871**

3.2 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0154	0.1410	0.1592	2.6000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	22.7169	22.7169	5.4000e-003	0.0000	22.8520
Total	**0.0154**	**0.1410**	**0.1592**	**2.6000e-004**		**6.8600e-003**	**6.8600e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**22.7169**	**22.7169**	**5.4000e-003**	**0.0000**	**22.8520**

3.2 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.9200e-003	1.0100e-003	1.0000e-005	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	1.1141	1.1141	6.0000e-005	0.0000	1.1156
Worker	7.4000e-004	4.8000e-004	4.9800e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.2672	1.2672	4.0000e-005	0.0000	1.2681
Total	**8.4000e-004**	**4.4000e-003**	**5.9900e-003**	**2.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8400e-003**	**4.9000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**2.3813**	**2.3813**	**1.0000e-004**	**0.0000**	**2.3837**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.2800e-003	0.0260	0.1729	2.6000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	22.7168	22.7168	5.4000e-003	0.0000	22.8519
Total	**5.2800e-003**	**0.0260**	**0.1729**	**2.6000e-004**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**22.7168**	**22.7168**	**5.4000e-003**	**0.0000**	**22.8519**

3.2 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.9200e-003	1.0100e-003	1.0000e-005	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	1.1141	1.1141	6.0000e-005	0.0000	1.1156
Worker	7.4000e-004	4.8000e-004	4.9800e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.2672	1.2672	4.0000e-005	0.0000	1.2681
Total	**8.4000e-004**	**4.4000e-003**	**5.9900e-003**	**2.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8400e-003**	**4.9000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**2.3813**	**2.3813**	**1.0000e-004**	**0.0000**	**2.3837**

3.3 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8179
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4000e-003**	**0.0431**	**0.0584**	**9.0000e-005**		**2.1700e-003**	**2.1700e-003**		**2.0000e-003**	**2.0000e-003**	**0.0000**	**7.7564**	**7.7564**	**2.4600e-003**	**0.0000**	**7.8179**

3.3 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.8000e-004	1.9100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4849	0.4849	1.0000e-005	0.0000	0.4853
Total	**2.9000e-004**	**1.8000e-004**	**1.9100e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**0.0000**	**0.4853**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3500e-003	6.4000e-003	0.0664	9.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8178
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3500e-003**	**6.4000e-003**	**0.0664**	**9.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**7.7564**	**7.7564**	**2.4600e-003**	**0.0000**	**7.8178**

3.3 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.8000e-004	1.9100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4849	0.4849	1.0000e-005	0.0000	0.4853
Total	**2.9000e-004**	**1.8000e-004**	**1.9100e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**0.0000**	**0.4853**

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**0.3438**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

3.4 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0647	0.0647	0.0000	0.0000	0.0647
Total	**4.0000e-005**	**2.0000e-005**	**2.5000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0647**	**0.0647**	**0.0000**	**0.0000**	**0.0647**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**0.3430**	**6.4000e-004**	**9.1600e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

3.4 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0647	0.0647	0.0000	0.0000	0.0647
Total	**4.0000e-005**	**2.0000e-005**	**2.5000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0647**	**0.0647**	**0.0000**	**0.0000**	**0.0647**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7744	0.2822	0.0000	11.8282
Unmitigated	4.7744	0.2822	0.0000	11.8282

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.52	4.7744	0.2822	0.0000	11.8282
Total		**4.7744**	**0.2822**	**0.0000**	**11.8282**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Mitigated(Tier 4 Final) Construction-Homes 85-105

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	21.00	Dwelling Unit	2.03	48,702.60	55

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Mitigated(Tier 4 Final) Construction-Homes 85-105 - Sonoma-San Francisco County, Annual

Project Characteristics - CO2 intensity factor based on Renewable Energy Portfolio Standard. Start of construction as provided by the Applicant in response to request for information form(8/16/19).

Land Use - Acreage and square footage for 21 units derived by dividing total acreage(10.17) and square footage(243,513) equally for 105 units. 2.65 persons per unit(City of Santa Rosa).Rounded down to be consistent with total population of 279.

Construction Phase - As provided by Applicant in response to request for information form(8/16/19).

Off-road Equipment - Adjusted construction equipment usage to match CalEEMod default total building construction usage hours.

Vehicle Trips - Construction Only.

Woodstoves - Construction Only.

Area Coating - Construction Only.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects.
Tier 4 Final mitigation applied to equipment with 50 HP or greater.

Mobile Land Use Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	32874	0
tblAreaCoating	Area_Residential_Interior	98623	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	9.03	0.00
tblLandUse	LandUseSquareFeet	37,800.00	48,702.60
tblLandUse	LotAcreage	6.82	2.03
tblLandUse	Population	60.00	55.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.80
tblOffRoadEquipment	UsageHours	7.00	3.20
tblOffRoadEquipment	UsageHours	8.00	3.20
tblOffRoadEquipment	UsageHours	6.00	2.80
tblOffRoadEquipment	UsageHours	8.00	3.20
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0115	0.1035	0.1091	1.9000e-004	1.1900e-003	5.1900e-003	6.3800e-003	3.2000e-004	4.8900e-003	5.2100e-003	0.0000	16.4356	16.4356	3.6300e-003	0.0000	16.5262
2023	0.4109	0.6075	0.7034	1.2200e-003	7.6700e-003	0.0289	0.0366	2.0700e-003	0.0272	0.0292	0.0000	105.8776	105.8776	0.0237	0.0000	106.4690
Maximum	**0.4109**	**0.6075**	**0.7034**	**1.2200e-003**	**7.6700e-003**	**0.0289**	**0.0366**	**2.0700e-003**	**0.0272**	**0.0292**	**0.0000**	**105.8776**	**105.8776**	**0.0237**	**0.0000**	**106.4690**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	4.2000e-003	0.0208	0.1174	1.9000e-004	1.1900e-003	6.7000e-004	1.8600e-003	3.2000e-004	6.6000e-004	9.9000e-004	0.0000	16.4355	16.4355	3.6300e-003	0.0000	16.5262
2023	0.3682	0.1238	0.7640	1.2200e-003	7.6700e-003	3.7900e-003	0.0115	2.0700e-003	3.7900e-003	5.8600e-003	0.0000	105.8775	105.8775	0.0237	0.0000	106.4689
Maximum	**0.3682**	**0.1238**	**0.7640**	**1.2200e-003**	**7.6700e-003**	**3.7900e-003**	**0.0115**	**2.0700e-003**	**3.7900e-003**	**5.8600e-003**	**0.0000**	**105.8775**	**105.8775**	**0.0237**	**0.0000**	**106.4689**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**11.86**	**79.66**	**-8.48**	**0.00**	**0.00**	**86.92**	**68.99**	**0.00**	**86.12**	**80.12**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**11-17-2022**	**2-16-2023**	0.2264	0.0503
2	**2-17-2023**	**5-16-2023**	0.2097	0.0474
3	**5-17-2023**	**8-16-2023**	0.2167	0.0489
4	**8-17-2023**	**9-30-2023**	0.1167	0.0245
		Highest	0.2264	0.0503

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.6891	0.0000	4.6891	0.2771	0.0000	11.6170
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.1232**	**65.4344**	**70.5575**	**0.3250**	**2.1500e-003**	**79.3229**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Energy	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	62.6774	62.6774	2.8600e-003	1.0600e-003	63.0647
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	4.6891	0.0000	4.6891	0.2771	0.0000	11.6170
Water						0.0000	0.0000		0.0000	0.0000	0.4341	1.8468	2.2809	0.0447	1.0800e-003	3.7211
Total	**0.1983**	**0.0305**	**0.1682**	**1.9000e-004**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**0.0000**	**3.1800e-003**	**3.1800e-003**	**5.1232**	**65.4344**	**70.5575**	**0.3250**	**2.1500e-003**	**79.3229**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	11/17/2022	9/20/2023	5	220	
2	Paving	Paving	9/21/2023	10/4/2023	5	10	
3	Architectural Coating	Architectural Coating	10/5/2023	10/18/2023	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 98,623; Residential Outdoor: 32,874; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.80	231	0.29
Building Construction	Forklifts	3	3.20	89	0.20
Building Construction	Generator Sets	1	3.20	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.80	97	0.37
Building Construction	Welders	1	3.20	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	8.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0109	0.0999	0.1047	1.7000e-004		5.1800e-003	5.1800e-003		4.8700e-003	4.8700e-003	0.0000	14.8304	14.8304	3.5500e-003	0.0000	14.9192
Total	**0.0109**	**0.0999**	**0.1047**	**1.7000e-004**		**5.1800e-003**	**5.1800e-003**		**4.8700e-003**	**4.8700e-003**	**0.0000**	**14.8304**	**14.8304**	**3.5500e-003**	**0.0000**	**14.9192**

3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.1800e-003	7.5000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7445	0.7445	5.0000e-005	0.0000	0.7456
Worker	5.2000e-004	3.5000e-004	3.6100e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8607	0.8607	3.0000e-005	0.0000	0.8614
Total	**6.1000e-004**	**3.5300e-003**	**4.3600e-003**	**2.0000e-005**	**1.1900e-003**	**2.0000e-005**	**1.2000e-003**	**3.2000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.6051**	**1.6051**	**8.0000e-005**	**0.0000**	**1.6069**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5900e-003	0.0172	0.1130	1.7000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	14.8304	14.8304	3.5500e-003	0.0000	14.9192
Total	**3.5900e-003**	**0.0172**	**0.1130**	**1.7000e-004**		**6.5000e-004**	**6.5000e-004**		**6.5000e-004**	**6.5000e-004**	**0.0000**	**14.8304**	**14.8304**	**3.5500e-003**	**0.0000**	**14.9192**

3.2 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.1800e-003	7.5000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7445	0.7445	5.0000e-005	0.0000	0.7456
Worker	5.2000e-004	3.5000e-004	3.6100e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8607	0.8607	3.0000e-005	0.0000	0.8614
Total	**6.1000e-004**	**3.5300e-003**	**4.3600e-003**	**2.0000e-005**	**1.1900e-003**	**2.0000e-005**	**1.2000e-003**	**3.2000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.6051**	**1.6051**	**8.0000e-005**	**0.0000**	**1.6069**

3.2 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0591	0.5409	0.6108	1.0100e-003		0.0263	0.0263		0.0248	0.0248	0.0000	87.1586	87.1586	0.0207	0.0000	87.6769
Total	**0.0591**	**0.5409**	**0.6108**	**1.0100e-003**		**0.0263**	**0.0263**		**0.0248**	**0.0248**	**0.0000**	**87.1586**	**87.1586**	**0.0207**	**0.0000**	**87.6769**

3.2 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	0.0150	3.8900e-003	4.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	4.2745	4.2745	2.3000e-004	0.0000	4.2804
Worker	2.8600e-003	1.8400e-003	0.0191	5.0000e-005	5.9000e-003	4.0000e-005	5.9400e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.8620	4.8620	1.4000e-004	0.0000	4.8654
Total	**3.2500e-003**	**0.0169**	**0.0230**	**9.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**9.1365**	**9.1365**	**3.7000e-004**	**0.0000**	**9.1458**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0203	0.0997	0.6633	1.0100e-003		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	87.1585	87.1585	0.0207	0.0000	87.6768
Total	**0.0203**	**0.0997**	**0.6633**	**1.0100e-003**		**3.5000e-003**	**3.5000e-003**		**3.5000e-003**	**3.5000e-003**	**0.0000**	**87.1585**	**87.1585**	**0.0207**	**0.0000**	**87.6768**

3.2 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	0.0150	3.8900e-003	4.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	4.2745	4.2745	2.3000e-004	0.0000	4.2804
Worker	2.8600e-003	1.8400e-003	0.0191	5.0000e-005	5.9000e-003	4.0000e-005	5.9400e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.8620	4.8620	1.4000e-004	0.0000	4.8654
Total	**3.2500e-003**	**0.0169**	**0.0230**	**9.0000e-005**	**7.0000e-003**	**6.0000e-005**	**7.0600e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**	**0.0000**	**9.1365**	**9.1365**	**3.7000e-004**	**0.0000**	**9.1458**

3.3 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8179
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4000e-003**	**0.0431**	**0.0584**	**9.0000e-005**		**2.1700e-003**	**2.1700e-003**		**2.0000e-003**	**2.0000e-003**	**0.0000**	**7.7564**	**7.7564**	**2.4600e-003**	**0.0000**	**7.8179**

3.3 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.8000e-004	1.9100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4849	0.4849	1.0000e-005	0.0000	0.4853
Total	**2.9000e-004**	**1.8000e-004**	**1.9100e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**0.0000**	**0.4853**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3500e-003	6.4000e-003	0.0664	9.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8178
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3500e-003**	**6.4000e-003**	**0.0664**	**9.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**7.7564**	**7.7564**	**2.4600e-003**	**0.0000**	**7.8178**

3.3 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.8000e-004	1.9100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4849	0.4849	1.0000e-005	0.0000	0.4853
Total	**2.9000e-004**	**1.8000e-004**	**1.9100e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**0.0000**	**0.4853**

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**0.3438**	**6.5100e-003**	**9.0600e-003**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

3.4 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0647	0.0647	0.0000	0.0000	0.0647
Total	**4.0000e-005**	**2.0000e-005**	**2.5000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0647**	**0.0647**	**0.0000**	**0.0000**	**0.0647**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	**0.3430**	**6.4000e-004**	**9.1600e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2785**

3.4 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0647	0.0647	0.0000	0.0000	0.0647
Total	**4.0000e-005**	**2.0000e-005**	**2.5000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0647**	**0.0647**	**0.0000**	**0.0000**	**0.0647**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.1059	30.1059	2.2300e-003	4.6000e-004	30.2996
NaturalGas Mitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
NaturalGas Unmitigated	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	610367	3.2900e-003	0.0281	0.0120	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5715	32.5715	6.2000e-004	6.0000e-004	32.7651
Total		**3.2900e-003**	**0.0281**	**0.0120**	**1.8000e-004**		**2.2700e-003**	**2.2700e-003**		**2.2700e-003**	**2.2700e-003**	**0.0000**	**32.5715**	**32.5715**	**6.2000e-004**	**6.0000e-004**	**32.7651**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169902	30.1059	2.2300e-003	4.6000e-004	30.2996
Total		**30.1059**	**2.2300e-003**	**4.6000e-004**	**30.2996**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201
Unmitigated	0.1950	2.3600e-003	0.1562	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.9101	0.9101	2.6000e-004	1.0000e-005	0.9201

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0000e-005	5.7000e-004	2.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6554	0.6554	1.0000e-005	1.0000e-005	0.6593
Landscaping	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Total	**0.1950**	**2.3700e-003**	**0.1562**	**1.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**0.9101**	**0.9101**	**2.5000e-004**	**1.0000e-005**	**0.9201**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2809	0.0447	1.0800e-003	3.7211
Unmitigated	2.2809	0.0447	1.0800e-003	3.7211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.36823 / 0.862583	2.2809	0.0447	1.0800e-003	3.7211
Total		**2.2809**	**0.0447**	**1.0800e-003**	**3.7211**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.6891	0.2771	0.0000	11.6170
Unmitigated	4.6891	0.2771	0.0000	11.6170

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.1	4.6891	0.2771	0.0000	11.6170
Total		**4.6891**	**0.2771**	**0.0000**	**11.6170**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.1	4.6891	0.2771	0.0000	11.6170
Total		**4.6891**	**0.2771**	**0.0000**	**11.6170**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stonebridge Subdivision Project-Unmitigated Operational Only

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.98	Acre	3.98	173,368.80	0
Other Non-Asphalt Surfaces	14.00	Acre	14.00	609,840.00	0
Single Family Housing	105.00	Dwelling Unit	10.62	243,513.00	279

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted based on Renewable Energy Portfolio.
Construction start date and full build out date as provided by the Applicant in Request to Information Form (8/16/19).

Land Use - 14 acres of Reserve area (East parcel). 10.62 acres includes single-family units, associated garage and drive-way and stormwater treatment area. 3.98 acres of internal roads. 2.65 persons per household (City of Santa Rosa).

Construction Phase - Operational Run Only.

Off-road Equipment - Operational Run Only.

Off-road Equipment -

Trips and VMT - Operational Run Only.

Architectural Coating - Operational Run Only.

Vehicle Trips - Trip Generation rate adjusted for 105 residential units to match the total trips as per W-Trans. 2019. Traffic Impact Study for the 2220 Fulton Road Project. October 22, which considers 120 units. Weekday trip generation rate used for weekends.

Woodstoves - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Area Coating -

Energy Use -

Solid Waste -

Area Mitigation - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Energy Mitigation - Minimum solar requirements for single-family homes, average CFA = 2,273 square feet,Climate zone 4, 1.22 KW per dwelling unit, 1800 energy production factor. Thus, 2200 kWh per year per dwelling unit. 231,088 kWh annual production for 105 units.

Water Mitigation - Compliance with the Green Building Code Standards and the Water Efficient Land Use Ordinance.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	164,371.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	493,114.00	0.00
tblFireplaces	NumberWood	45.15	0.00
tblLandUse	LandUseSquareFeet	189,000.00	243,513.00
tblLandUse	LotAcreage	34.09	10.62
tblLandUse	Population	300.00	279.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblTripsAndVMT	WorkerTripNumber	73.00	0.00
tblVehicleTrips	ST_TR	9.91	10.79
tblVehicleTrips	SU_TR	8.62	10.79
tblVehicleTrips	WD_TR	9.52	10.79

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1634	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.1634**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1634	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.1634**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
9	**4-1-2023**	**6-30-2023**	0.0767	0.0767
10	**7-1-2023**	**9-30-2023**	0.0867	0.0867
		Highest	0.0867	0.0867

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2404	0.0158	1.0275	8.6000e-004		0.0447	0.0447		0.0447	0.0447	5.3809	4.5509	9.9318	0.0264	6.0000e-005	10.6107
Energy	0.0165	0.1406	0.0598	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	313.3871	313.3871	0.0143	5.3000e-003	315.3233
Mobile	0.3134	1.5156	3.4654	0.0116	0.9707	0.0102	0.9808	0.2612	9.5000e-003	0.2707	0.0000	1,066.1078	1,066.1078	0.0429	0.0000	1,067.1802
Waste						0.0000	0.0000		0.0000	0.0000	23.7865	0.0000	23.7865	1.4057	0.0000	58.9300
Water						0.0000	0.0000		0.0000	0.0000	2.1704	9.2342	11.4046	0.2236	5.4100e-003	18.6055
Total	**1.5702**	**1.6721**	**4.5528**	**0.0133**	**0.9707**	**0.0663**	**1.0369**	**0.2612**	**0.0656**	**0.3268**	**31.3377**	**1,393.2800**	**1,424.6178**	**1.7130**	**0.0108**	**1,470.6496**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2129	8.9900e-003	0.7800	4.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.0000	1.2738	1.2738	1.2300e-003	0.0000	1.3045
Energy	0.0165	0.1406	0.0598	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	272.4393	272.4393	0.0113	4.6700e-003	274.1120
Mobile	0.3134	1.5156	3.4654	0.0116	0.9707	0.0102	0.9808	0.2612	9.5000e-003	0.2707	0.0000	1,066.1078	1,066.1078	0.0429	0.0000	1,067.1802
Waste						0.0000	0.0000		0.0000	0.0000	23.7865	0.0000	23.7865	1.4057	0.0000	58.9300
Water						0.0000	0.0000		0.0000	0.0000	1.7363	7.3873	9.1237	0.1789	4.3200e-003	14.8844
Total	**1.5428**	**1.6652**	**4.3052**	**0.0125**	**0.9707**	**0.0259**	**0.9965**	**0.2612**	**0.0252**	**0.2864**	**25.5228**	**1,347.2083**	**1,372.7311**	**1.6400**	**8.9900e-003**	**1,416.4111**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.75**	**0.41**	**5.44**	**6.15**	**0.00**	**60.99**	**3.90**	**0.00**	**61.60**	**12.37**	**18.56**	**3.31**	**3.64**	**4.26**	**16.53**	**3.69**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/8/2023	7/26/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 17.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 46,993 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1634					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1634**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1634					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1634**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3134	1.5156	3.4654	0.0116	0.9707	0.0102	0.9808	0.2612	9.5000e-003	0.2707	0.0000	1,066.1078	1,066.1078	0.0429	0.0000	1,067.1802
Unmitigated	0.3134	1.5156	3.4654	0.0116	0.9707	0.0102	0.9808	0.2612	9.5000e-003	0.2707	0.0000	1,066.1078	1,066.1078	0.0429	0.0000	1,067.1802

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,132.95	1,132.95	1132.95	2,616,670	2,616,670
Total	1,132.95	1,132.95	1,132.95	2,616,670	2,616,670

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Other Non-Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	109.5818	109.5818	8.1300e-003	1.6800e-003	110.2867
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	150.5296	150.5296	0.0112	2.3100e-003	151.4980
NaturalGas Mitigated	0.0165	0.1406	0.0598	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.8575	162.8575	3.1200e-003	2.9900e-003	163.8253
NaturalGas Unmitigated	0.0165	0.1406	0.0598	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.8575	162.8575	3.1200e-003	2.9900e-003	163.8253

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.05183e+006	0.0165	0.1406	0.0598	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.8575	162.8575	3.1200e-003	2.9900e-003	163.8253
Total		**0.0165**	**0.1406**	**0.0598**	**9.0000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**162.8575**	**162.8575**	**3.1200e-003**	**2.9900e-003**	**163.8253**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.05183e+006	0.0165	0.1406	0.0598	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.8575	162.8575	3.1200e-003	2.9900e-003	163.8253
Total		**0.0165**	**0.1406**	**0.0598**	**9.0000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**162.8575**	**162.8575**	**3.1200e-003**	**2.9900e-003**	**163.8253**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	849510	150.5296	0.0112	2.3100e-003	151.4980
Total		**150.5296**	**0.0112**	**2.3100e-003**	**151.4980**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	-77029.3	-13.6493	-0.0010	-0.0002	-13.7371
Other Non-Asphalt Surfaces	-77029.3	-13.6493	-0.0010	-0.0002	-13.7371
Single Family Housing	772481	136.8804	0.0102	2.1000e-003	137.7609
Total		**109.5818**	**8.1400e-003**	**1.6800e-003**	**110.2867**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2129	8.9900e-003	0.7800	4.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.0000	1.2738	1.2738	1.2300e-003	0.0000	1.3045
Unmitigated	1.2404	0.0158	1.0275	8.6000e-004		0.0447	0.0447		0.0447	0.0447	5.3809	4.5509	9.9318	0.0264	6.0000e-005	10.6107

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1878					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0275	6.8500e-003	0.2475	8.2000e-004		0.0404	0.0404		0.0404	0.0404	5.3809	3.2770	8.6579	0.0252	6.0000e-005	9.3062
Landscaping	0.0235	8.9900e-003	0.7800	4.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.0000	1.2738	1.2738	1.2300e-003	0.0000	1.3045
Total	**1.2404**	**0.0158**	**1.0275**	**8.6000e-004**		**0.0447**	**0.0447**		**0.0447**	**0.0447**	**5.3809**	**4.5509**	**9.9317**	**0.0265**	**6.0000e-005**	**10.6107**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1878					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0235	8.9900e-003	0.7800	4.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.0000	1.2738	1.2738	1.2300e-003	0.0000	1.3045
Total	**1.2129**	**8.9900e-003**	**0.7800**	**4.0000e-005**		**4.3200e-003**	**4.3200e-003**		**4.3200e-003**	**4.3200e-003**	**0.0000**	**1.2738**	**1.2738**	**1.2300e-003**	**0.0000**	**1.3045**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.1237	0.1789	4.3200e-003	14.8844
Unmitigated	11.4046	0.2236	5.4100e-003	18.6055

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.84117 / 4.31291	11.4046	0.2236	5.4100e-003	18.6055
Total		**11.4046**	**0.2236**	**5.4100e-003**	**18.6055**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.47294 / 3.45033	9.1237	0.1789	4.3200e-003	14.8844
Total		**9.1237**	**0.1789**	**4.3200e-003**	**14.8844**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.7865	1.4057	0.0000	58.9300
Unmitigated	23.7865	1.4057	0.0000	58.9300

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	117.18	23.7865	1.4057	0.0000	58.9300
Total		**23.7865**	**1.4057**	**0.0000**	**58.9300**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	117.18	23.7865	1.4057	0.0000	58.9300
Total		**23.7865**	**1.4057**	**0.0000**	**58.9300**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stonebridge Subdivision Project-Unmitigated Operational Only

Sonoma-San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.98	Acre	3.98	173,368.80	0
Other Non-Asphalt Surfaces	14.00	Acre	14.00	609,840.00	0
Single Family Housing	105.00	Dwelling Unit	10.62	243,513.00	279

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted based on Renewable Energy Portfolio.
Construction start date and full build out date as provided by the Applicant in Request to Information Form (8/16/19).

Land Use - 14 acres of Reserve area (East parcel). 10.62 acres includes single-family units, associated garage and drive-way and stormwater treatment area. 3.98 acres of internal roads. 2.65 persons per household (City of Santa Rosa).

Construction Phase - Operational Run Only.

Off-road Equipment - Operational Run Only.

Off-road Equipment -

Trips and VMT - Operational Run Only.

Architectural Coating - Operational Run Only.

Vehicle Trips - Trip Generation rate adjusted for 105 residential units to match the total trips as per W-Trans. 2019. Traffic Impact Study for the 2220 Fulton Road Project. October 22, which considers 120 units. Weekday trip generation rate used for weekends.

Woodstoves - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Area Coating -

Energy Use -

Solid Waste -

Area Mitigation - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Energy Mitigation - Minimum solar requirements for single-family homes, average CFA = 2,273 square feet,Climate zone 4, 1.22 KW per dwelling unit, 1800 energy production factor. Thus, 2200 kWh per year per dwelling unit. 231,088 kWh annual production for 105 units.

Water Mitigation - Compliance with the Green Building Code Standards and the Water Efficient Land Use Ordinance.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	164,371.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	493,114.00	0.00
tblFireplaces	NumberWood	45.15	0.00
tblLandUse	LandUseSquareFeet	189,000.00	243,513.00
tblLandUse	LotAcreage	34.09	10.62
tblLandUse	Population	300.00	279.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblTripsAndVMT	WorkerTripNumber	73.00	0.00
tblVehicleTrips	ST_TR	9.91	10.79
tblVehicleTrips	SU_TR	8.62	10.79
tblVehicleTrips	WD_TR	9.52	10.79

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	9.3348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**9.3348**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	9.3348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**9.3348**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.4140	0.9895	32.2765	0.0800		3.9053	3.9053		3.9053	3.9053	563.2853	664.1313	1,227.4167	2.6607	0.0119	1,297.4769
Energy	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
Mobile	1.9445	8.0874	19.4340	0.0666	5.5775	0.0557	5.6332	1.4949	0.0521	1.5471		6,759.0742	6,759.0742	0.2600		6,765.5735
Total	**11.4487**	**9.8474**	**52.0383**	**0.1516**	**5.5775**	**4.0234**	**9.6008**	**1.4949**	**4.0198**	**5.5147**	**563.2853**	**8,406.8750**	**8,970.1603**	**2.9395**	**0.0299**	**9,052.5653**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.7786	0.0999	8.6664	4.6000e-004		0.0480	0.0480		0.0480	0.0480	0.0000	15.6019	15.6019	0.0150	0.0000	15.9772
Energy	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
Mobile	1.9445	8.0874	19.4340	0.0666	5.5775	0.0557	5.6332	1.4949	0.0521	1.5471		6,759.0742	6,759.0742	0.2600		6,765.5735
Total	**8.8133**	**8.9578**	**28.4282**	**0.0720**	**5.5775**	**0.1660**	**5.7435**	**1.4949**	**0.1624**	**1.6573**	**0.0000**	**7,758.3456**	**7,758.3456**	**0.2938**	**0.0180**	**7,771.0656**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**23.02**	**9.03**	**45.37**	**52.49**	**0.00**	**95.87**	**40.18**	**0.00**	**95.96**	**69.95**	**100.00**	**7.71**	**13.51**	**90.00**	**39.74**	**14.16**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/8/2023	7/26/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 17.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 46,993 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.3348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**9.3348**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.3348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**9.3348**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9445	8.0874	19.4340	0.0666	5.5775	0.0557	5.6332	1.4949	0.0521	1.5471		6,759.0742	6,759.0742	0.2600		6,765.5735
Unmitigated	1.9445	8.0874	19.4340	0.0666	5.5775	0.0557	5.6332	1.4949	0.0521	1.5471		6,759.0742	6,759.0742	0.2600		6,765.5735

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,132.95	1,132.95	1132.95	2,616,670	2,616,670
Total	1,132.95	1,132.95	1,132.95	2,616,670	2,616,670

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Other Non-Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
NaturalGas Unmitigated	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8361.19	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
Total		**0.0902**	**0.7705**	**0.3279**	**4.9200e-003**		**0.0623**	**0.0623**		**0.0623**	**0.0623**		**983.6694**	**983.6694**	**0.0189**	**0.0180**	**989.5149**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.36119	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
Total		**0.0902**	**0.7705**	**0.3279**	**4.9200e-003**		**0.0623**	**0.0623**		**0.0623**	**0.0623**		**983.6694**	**983.6694**	**0.0189**	**0.0180**	**989.5149**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.7786	0.0999	8.6664	4.6000e-004		0.0480	0.0480		0.0480	0.0480	0.0000	15.6019	15.6019	0.0150	0.0000	15.9772
Unmitigated	9.4140	0.9895	32.2765	0.0800		3.9053	3.9053		3.9053	3.9053	563.2853	664.1313	1,227.4167	2.6607	0.0119	1,297.4769

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0288					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.6355	0.8896	23.6101	0.0796		3.8574	3.8574		3.8574	3.8574	563.2853	648.5294	1,211.8148	2.6457	0.0119	1,281.4997
Landscaping	0.2612	0.0999	8.6664	4.6000e-004		0.0480	0.0480		0.0480	0.0480		15.6019	15.6019	0.0150		15.9772
Total	**9.4140**	**0.9895**	**32.2765**	**0.0800**		**3.9053**	**3.9053**		**3.9053**	**3.9053**	**563.2853**	**664.1313**	**1,227.4167**	**2.6607**	**0.0119**	**1,297.4769**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0288					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2612	0.0999	8.6664	4.6000e-004		0.0480	0.0480		0.0480	0.0480		15.6019	15.6019	0.0150		15.9772
Total	**6.7786**	**0.0999**	**8.6664**	**4.6000e-004**		**0.0480**	**0.0480**		**0.0480**	**0.0480**	**0.0000**	**15.6019**	**15.6019**	**0.0150**	**0.0000**	**15.9772**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stonebridge Subdivision Project-Unmitigated Operational Only

Sonoma-San Francisco County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.98	Acre	3.98	173,368.80	0
Other Non-Asphalt Surfaces	14.00	Acre	14.00	609,840.00	0
Single Family Housing	105.00	Dwelling Unit	10.62	243,513.00	279

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted based on Renewable Energy Portfolio.
Construction start date and full build out date as provided by the Applicant in Request to Information Form (8/16/19).

Land Use - 14 acres of Reserve area (East parcel). 10.62 acres includes single-family units, associated garage and drive-way and stormwater treatment area. 3.98 acres of internal roads. 2.65 persons per household (City of Santa Rosa).

Construction Phase - Operational Run Only.

Off-road Equipment - Operational Run Only.

Off-road Equipment -

Trips and VMT - Operational Run Only.

Architectural Coating - Operational Run Only.

Vehicle Trips - Trip Generation rate adjusted for 105 residential units to match the total trips as per W-Trans. 2019. Traffic Impact Study for the 2220 Fulton Road Project. October 22, which considers 120 units. Weekday trip generation rate used for weekends.

Woodstoves - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Area Coating -

Energy Use -

Solid Waste -

Area Mitigation - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Energy Mitigation - Minimum solar requirements for single-family homes, average CFA = 2,273 square feet,Climate zone 4, 1.22 KW per dwelling unit, 1800 energy production factor. Thus, 2200 kWh per year per dwelling unit. 231,088 kWh annual production for 105 units.

Water Mitigation - Compliance with the Green Building Code Standards and the Water Efficient Land Use Ordinance.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	164,371.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	493,114.00	0.00
tblFireplaces	NumberWood	45.15	0.00
tblLandUse	LandUseSquareFeet	189,000.00	243,513.00
tblLandUse	LotAcreage	34.09	10.62
tblLandUse	Population	300.00	279.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblTripsAndVMT	WorkerTripNumber	73.00	0.00
tblVehicleTrips	ST_TR	9.91	10.79
tblVehicleTrips	SU_TR	8.62	10.79
tblVehicleTrips	WD_TR	9.52	10.79

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	9.3348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**9.3348**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	9.3348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**9.3348**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.4140	0.9895	32.2765	0.0800		3.9053	3.9053		3.9053	3.9053	563.2853	664.1313	1,227.4167	2.6607	0.0119	1,297.4769
Energy	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
Mobile	1.7060	8.5162	19.9506	0.0630	5.5775	0.0561	5.6336	1.4949	0.0525	1.5474		6,394.0545	6,394.0545	0.2663		6,400.7130
Total	**11.2102**	**10.2763**	**52.5549**	**0.1480**	**5.5775**	**4.0238**	**9.6012**	**1.4949**	**4.0201**	**5.5150**	**563.2853**	**8,041.8552**	**8,605.1406**	**2.9459**	**0.0299**	**8,687.7048**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.7786	0.0999	8.6664	4.6000e-004		0.0480	0.0480		0.0480	0.0480	0.0000	15.6019	15.6019	0.0150	0.0000	15.9772
Energy	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
Mobile	1.7060	8.5162	19.9506	0.0630	5.5775	0.0561	5.6336	1.4949	0.0525	1.5474		6,394.0545	6,394.0545	0.2663		6,400.7130
Total	**8.5747**	**9.3866**	**28.9449**	**0.0684**	**5.5775**	**0.1664**	**5.7438**	**1.4949**	**0.1628**	**1.6577**	**0.0000**	**7,393.3258**	**7,393.3258**	**0.3002**	**0.0180**	**7,406.2051**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**23.51**	**8.66**	**44.92**	**53.77**	**0.00**	**95.87**	**40.18**	**0.00**	**95.95**	**69.94**	**100.00**	**8.06**	**14.08**	**89.81**	**39.74**	**14.75**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/8/2023	7/26/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 17.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 46,993 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.3348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**9.3348**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.3348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**9.3348**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7060	8.5162	19.9506	0.0630	5.5775	0.0561	5.6336	1.4949	0.0525	1.5474		6,394.0545	6,394.0545	0.2663		6,400.7130
Unmitigated	1.7060	8.5162	19.9506	0.0630	5.5775	0.0561	5.6336	1.4949	0.0525	1.5474		6,394.0545	6,394.0545	0.2663		6,400.7130

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,132.95	1,132.95	1132.95	2,616,670	2,616,670
Total	1,132.95	1,132.95	1,132.95	2,616,670	2,616,670

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Other Non-Asphalt Surfaces	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
NaturalGas Unmitigated	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8361.19	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
Total		**0.0902**	**0.7705**	**0.3279**	**4.9200e-003**		**0.0623**	**0.0623**		**0.0623**	**0.0623**		**983.6694**	**983.6694**	**0.0189**	**0.0180**	**989.5149**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.36119	0.0902	0.7705	0.3279	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6694	983.6694	0.0189	0.0180	989.5149
Total		**0.0902**	**0.7705**	**0.3279**	**4.9200e-003**		**0.0623**	**0.0623**		**0.0623**	**0.0623**		**983.6694**	**983.6694**	**0.0189**	**0.0180**	**989.5149**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.7786	0.0999	8.6664	4.6000e-004		0.0480	0.0480		0.0480	0.0480	0.0000	15.6019	15.6019	0.0150	0.0000	15.9772
Unmitigated	9.4140	0.9895	32.2765	0.0800		3.9053	3.9053		3.9053	3.9053	563.2853	664.1313	1,227.4167	2.6607	0.0119	1,297.4769

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0288					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.6355	0.8896	23.6101	0.0796		3.8574	3.8574		3.8574	3.8574	563.2853	648.5294	1,211.8148	2.6457	0.0119	1,281.4997
Landscaping	0.2612	0.0999	8.6664	4.6000e-004		0.0480	0.0480		0.0480	0.0480		15.6019	15.6019	0.0150		15.9772
Total	**9.4140**	**0.9895**	**32.2765**	**0.0800**		**3.9053**	**3.9053**		**3.9053**	**3.9053**	**563.2853**	**664.1313**	**1,227.4167**	**2.6607**	**0.0119**	**1,297.4769**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0288					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2612	0.0999	8.6664	4.6000e-004		0.0480	0.0480		0.0480	0.0480		15.6019	15.6019	0.0150		15.9772
Total	**6.7786**	**0.0999**	**8.6664**	**4.6000e-004**		**0.0480**	**0.0480**		**0.0480**	**0.0480**	**0.0000**	**15.6019**	**15.6019**	**0.0150**	**0.0000**	**15.9772**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stonebridge Subdivision Project—Existing Emissions (2023)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,824.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted based on California's Renewables Portfolio Standard. Operational year to match the project's operational year as provided by the Applicant in Request to Information Form (8/16/19).

Land Use - Existing 1,824 sqft single-family home to be demolished as provided in Project Description and confirmed by Applicant in Request to Information Form (8/16/19).

Construction Phase - Operational only run

Off-road Equipment - Operational only run

Architectural Coating - Operational only run

Vehicle Trips - Trip Generation rate to match Traffic Impact Study. W-Trans. 2019. Traffic Impact Study for the 2220 Fulton Road Project. October 22.

Woodstoves - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Energy Use -

Area Mitigation - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,231.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,694.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	0.43	0.00
tblLandUse	LandUseSquareFeet	1,800.00	1,824.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.6300e-003	1.1000e-004	7.4400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0433	0.0433	1.0000e-005	0.0000	0.0438
Energy	1.6000e-004	1.3400e-003	5.7000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	2.9846	2.9846	1.4000e-004	5.0000e-005	3.0031
Mobile	2.6100e-003	0.0126	0.0289	1.0000e-004	8.0900e-003	8.0000e-005	8.1700e-003	2.1800e-003	8.0000e-005	2.2600e-003	0.0000	8.8831	8.8831	3.6000e-004	0.0000	8.8920
Waste						0.0000	0.0000		0.0000	0.0000	0.2558	0.0000	0.2558	0.0151	0.0000	0.6337
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.0879	0.1086	2.1300e-003	5.0000e-005	0.1772
Total	**0.0114**	**0.0141**	**0.0369**	**1.1000e-004**	**8.0900e-003**	**2.3000e-004**	**8.3200e-003**	**2.1800e-003**	**2.3000e-004**	**2.4100e-003**	**0.2764**	**11.9990**	**12.2754**	**0.0178**	**1.0000e-004**	**12.7498**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.6300e-003	9.0000e-005	7.4300e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
Energy	1.6000e-004	1.3400e-003	5.7000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	2.9846	2.9846	1.4000e-004	5.0000e-005	3.0031
Mobile	2.6100e-003	0.0126	0.0289	1.0000e-004	8.0900e-003	8.0000e-005	8.1700e-003	2.1800e-003	8.0000e-005	2.2600e-003	0.0000	8.8831	8.8831	3.6000e-004	0.0000	8.8920
Waste						0.0000	0.0000		0.0000	0.0000	0.2558	0.0000	0.2558	0.0151	0.0000	0.6337
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.0879	0.1086	2.1300e-003	5.0000e-005	0.1772
Total	**0.0114**	**0.0141**	**0.0369**	**1.1000e-004**	**8.0900e-003**	**2.3000e-004**	**8.3200e-003**	**2.1800e-003**	**2.3000e-004**	**2.4100e-003**	**0.2764**	**11.9678**	**12.2442**	**0.0178**	**1.0000e-004**	**12.7184**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.14**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.26**	**0.25**	**0.00**	**0.00**	**0.25**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	9/14/2021	9/13/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6100e-003	0.0126	0.0289	1.0000e-004	8.0900e-003	8.0000e-005	8.1700e-003	2.1800e-003	8.0000e-005	2.2600e-003	0.0000	8.8831	8.8831	3.6000e-004	0.0000	8.8920
Unmitigated	2.6100e-003	0.0126	0.0289	1.0000e-004	8.0900e-003	8.0000e-005	8.1700e-003	2.1800e-003	8.0000e-005	2.2600e-003	0.0000	8.8831	8.8831	3.6000e-004	0.0000	8.8920

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.44	9.44	9.44	21,803	21,803
Total	9.44	9.44	9.44	21,803	21,803

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.4336	1.4336	1.1000e-004	2.0000e-005	1.4428
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.4336	1.4336	1.1000e-004	2.0000e-005	1.4428
NaturalGas Mitigated	1.6000e-004	1.3400e-003	5.7000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5510	1.5510	3.0000e-005	3.0000e-005	1.5602
NaturalGas Unmitigated	1.6000e-004	1.3400e-003	5.7000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5510	1.5510	3.0000e-005	3.0000e-005	1.5602

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	29065.1	1.6000e-004	1.3400e-003	5.7000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5510	1.5510	3.0000e-005	3.0000e-005	1.5602
Total		**1.6000e-004**	**1.3400e-003**	**5.7000e-004**	**1.0000e-005**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**	**0.0000**	**1.5510**	**1.5510**	**3.0000e-005**	**3.0000e-005**	**1.5602**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	29065.1	1.6000e-004	1.3400e-003	5.7000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5510	1.5510	3.0000e-005	3.0000e-005	1.5602
Total		**1.6000e-004**	**1.3400e-003**	**5.7000e-004**	**1.0000e-005**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**	**0.0000**	**1.5510**	**1.5510**	**3.0000e-005**	**3.0000e-005**	**1.5602**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	8090.57	1.4336	1.1000e-004	2.0000e-005	1.4428
Total		**1.4336**	**1.1000e-004**	**2.0000e-005**	**1.4428**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	8090.57	1.4336	1.1000e-004	2.0000e-005	1.4428
Total		**1.4336**	**1.1000e-004**	**2.0000e-005**	**1.4428**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.6300e-003	9.0000e-005	7.4300e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
Unmitigated	8.6300e-003	1.1000e-004	7.4400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0433	0.0433	1.0000e-005	0.0000	0.0438

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	3.0000e-005	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0312	0.0312	0.0000	0.0000	0.0314
Landscaping	2.2000e-004	9.0000e-005	7.4300e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
Total	**8.6200e-003**	**1.2000e-004**	**7.4400e-003**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0433**	**0.0433**	**1.0000e-005**	**0.0000**	**0.0438**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	9.0000e-005	7.4300e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
Total	**8.6200e-003**	**9.0000e-005**	**7.4300e-003**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0121**	**0.0121**	**1.0000e-005**	**0.0000**	**0.0124**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1086	2.1300e-003	5.0000e-005	0.1772
Unmitigated	0.1086	2.1300e-003	5.0000e-005	0.1772

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.1086	2.1300e-003	5.0000e-005	0.1772
Total		**0.1086**	**2.1300e-003**	**5.0000e-005**	**0.1772**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.1086	2.1300e-003	5.0000e-005	0.1772
Total		**0.1086**	**2.1300e-003**	**5.0000e-005**	**0.1772**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2558	0.0151	0.0000	0.6337
Unmitigated	0.2558	0.0151	0.0000	0.6337

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.26	0.2558	0.0151	0.0000	0.6337
Total		**0.2558**	**0.0151**	**0.0000**	**0.6337**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.26	0.2558	0.0151	0.0000	0.6337
Total		**0.2558**	**0.0151**	**0.0000**	**0.6337**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stonebridge Subdivision Project—Existing Emissions (2023)

Sonoma-San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,824.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted based on California's Renewables Portfolio Standard. Operational year to match the project's operational year as provided by the Applicant in Request to Information Form (8/16/19).

Land Use - Existing 1,824 sqft single-family home to be demolished as provided in Project Description and confirmed by Applicant in Request to Information Form (8/16/19).

Construction Phase - Operational only run

Off-road Equipment - Operational only run

Architectural Coating - Operational only run

Vehicle Trips - Trip Generation rate to match Traffic Impact Study. W-Trans. 2019. Traffic Impact Study for the 2220 Fulton Road Project. October 22.

Woodstoves - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Energy Use -

Area Mitigation - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,231.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,694.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	0.43	0.00
tblLandUse	LandUseSquareFeet	1,800.00	1,824.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0491	5.7900e-003	0.0846	4.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	6.3250	6.3250	2.6000e-004	1.1000e-004	6.3653
Energy	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
Mobile	0.0162	0.0674	0.1619	5.6000e-004	0.0465	4.6000e-004	0.0469	0.0125	4.3000e-004	0.0129		56.3182	56.3182	2.1700e-003		56.3723
Total	**0.0662**	**0.0805**	**0.2496**	**6.5000e-004**	**0.0465**	**1.9000e-003**	**0.0484**	**0.0125**	**1.8700e-003**	**0.0143**	**0.0000**	**72.0115**	**72.0115**	**2.6100e-003**	**2.8000e-004**	**72.1616**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0486	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
Mobile	0.0162	0.0674	0.1619	5.6000e-004	0.0465	4.6000e-004	0.0469	0.0125	4.3000e-004	0.0129		56.3182	56.3182	2.1700e-003		56.3723
Total	**0.0656**	**0.0757**	**0.2476**	**6.1000e-004**	**0.0465**	**1.5100e-003**	**0.0480**	**0.0125**	**1.4800e-003**	**0.0139**	**0.0000**	**65.8350**	**65.8350**	**2.4900e-003**	**1.7000e-004**	**65.9484**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.85**	**6.01**	**0.83**	**6.15**	**0.00**	**20.53**	**0.81**	**0.00**	**20.86**	**2.72**	**0.00**	**8.58**	**8.58**	**4.60**	**39.29**	**8.61**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	9/14/2021	9/13/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0162	0.0674	0.1619	5.6000e-004	0.0465	4.6000e-004	0.0469	0.0125	4.3000e-004	0.0129		56.3182	56.3182	2.1700e-003		56.3723
Unmitigated	0.0162	0.0674	0.1619	5.6000e-004	0.0465	4.6000e-004	0.0469	0.0125	4.3000e-004	0.0129		56.3182	56.3182	2.1700e-003		56.3723

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.44	9.44	9.44	21,803	21,803
Total	9.44	9.44	9.44	21,803	21,803

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
NaturalGas Unmitigated	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	79.6304	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
Total		**8.6000e-004**	**7.3400e-003**	**3.1200e-003**	**5.0000e-005**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**		**9.3683**	**9.3683**	**1.8000e-004**	**1.7000e-004**	**9.4240**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0796304	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
Total		**8.6000e-004**	**7.3400e-003**	**3.1200e-003**	**5.0000e-005**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**		**9.3683**	**9.3683**	**1.8000e-004**	**1.7000e-004**	**9.4240**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0486	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Unmitigated	0.0491	5.7900e-003	0.0846	4.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	6.3250	6.3250	2.6000e-004	1.1000e-004	6.3653

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.0400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.7000e-004	4.8400e-003	2.0600e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	6.1765	6.1765	1.2000e-004	1.1000e-004	6.2132
Landscaping	2.4900e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1521
Total	**0.0491**	**5.7900e-003**	**0.0846**	**3.0000e-005**		**8.5000e-004**	**8.5000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**6.3250**	**6.3250**	**2.6000e-004**	**1.1000e-004**	**6.3653**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.0400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4900e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1521
Total	**0.0486**	**9.5000e-004**	**0.0825**	**0.0000**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**0.1486**	**0.1486**	**1.4000e-004**	**0.0000**	**0.1521**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stonebridge Subdivision Project—Existing Emissions (2023)

Sonoma-San Francisco County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,824.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Stonebridge Subdivision Project—Existing Emissions (2023) - Sonoma-San Francisco County, Winter

Project Characteristics - CO2 intensity factor adjusted based on California's Renewables Portfolio Standard. Operational year to match the project's operational year as provided by the Applicant in Request to Information Form (8/16/19).

Land Use - Existing 1,824 sqft single-family home to be demolished as provided in Project Description and confirmed by Applicant in Request to Information Form (8/16/19).

Construction Phase - Operational only run

Off-road Equipment - Operational only run

Architectural Coating - Operational only run

Vehicle Trips - Trip Generation rate to match Traffic Impact Study. W-Trans. 2019. Traffic Impact Study for the 2220 Fulton Road Project. October 22.

Woodstoves - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Energy Use -

Area Mitigation - No woodburning fireplaces or woodstoves in compliance with BAAQMD Regulation 6 Particulate Matter and visible emissions, Rule 3 Wood-burning devices.

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,231.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,694.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	0.43	0.00
tblLandUse	LandUseSquareFeet	1,800.00	1,824.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0491	5.7900e-003	0.0846	4.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	6.3250	6.3250	2.6000e-004	1.1000e-004	6.3653
Energy	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
Mobile	0.0142	0.0710	0.1662	5.3000e-004	0.0465	4.7000e-004	0.0469	0.0125	4.4000e-004	0.0129		53.2767	53.2767	2.2200e-003		53.3322
Total	**0.0642**	**0.0841**	**0.2539**	**6.2000e-004**	**0.0465**	**1.9100e-003**	**0.0484**	**0.0125**	**1.8800e-003**	**0.0143**	**0.0000**	**68.9700**	**68.9700**	**2.6600e-003**	**2.8000e-004**	**69.1215**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0486	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
Mobile	0.0142	0.0710	0.1662	5.3000e-004	0.0465	4.7000e-004	0.0469	0.0125	4.4000e-004	0.0129		53.2767	53.2767	2.2200e-003		53.3322
Total	**0.0636**	**0.0793**	**0.2519**	**5.8000e-004**	**0.0465**	**1.5200e-003**	**0.0480**	**0.0125**	**1.4900e-003**	**0.0139**	**0.0000**	**62.7936**	**62.7936**	**2.5400e-003**	**1.7000e-004**	**62.9083**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.87**	**5.76**	**0.81**	**6.45**	**0.00**	**20.42**	**0.81**	**0.00**	**20.74**	**2.72**	**0.00**	**8.96**	**8.96**	**4.51**	**39.29**	**8.99**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	9/14/2021	9/13/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0142	0.0710	0.1662	5.3000e-004	0.0465	4.7000e-004	0.0469	0.0125	4.4000e-004	0.0129		53.2767	53.2767	2.2200e-003		53.3322
Unmitigated	0.0142	0.0710	0.1662	5.3000e-004	0.0465	4.7000e-004	0.0469	0.0125	4.4000e-004	0.0129		53.2767	53.2767	2.2200e-003		53.3322

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.44	9.44	9.44	21,803	21,803
Total	9.44	9.44	9.44	21,803	21,803

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
NaturalGas Unmitigated	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	79.6304	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
Total		**8.6000e-004**	**7.3400e-003**	**3.1200e-003**	**5.0000e-005**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**		**9.3683**	**9.3683**	**1.8000e-004**	**1.7000e-004**	**9.4240**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0796304	8.6000e-004	7.3400e-003	3.1200e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.3683	9.3683	1.8000e-004	1.7000e-004	9.4240
Total		**8.6000e-004**	**7.3400e-003**	**3.1200e-003**	**5.0000e-005**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**		**9.3683**	**9.3683**	**1.8000e-004**	**1.7000e-004**	**9.4240**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0486	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Unmitigated	0.0491	5.7900e-003	0.0846	4.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	6.3250	6.3250	2.6000e-004	1.1000e-004	6.3653

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.0400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.7000e-004	4.8400e-003	2.0600e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	6.1765	6.1765	1.2000e-004	1.1000e-004	6.2132
Landscaping	2.4900e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1521
Total	**0.0491**	**5.7900e-003**	**0.0846**	**3.0000e-005**		**8.5000e-004**	**8.5000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**6.3250**	**6.3250**	**2.6000e-004**	**1.1000e-004**	**6.3653**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.0400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4900e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1521
Total	**0.0486**	**9.5000e-004**	**0.0825**	**0.0000**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**0.1486**	**0.1486**	**1.4000e-004**	**0.0000**	**0.1521**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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A.2 - Construction Health Risk Assessment Files

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City of Santa Rosa—Stonebridge Subdivision Project

Project Site

Estimation of Annual Onsite Construction Emissions (Project Site)

Start of Construction	4/1/2021	1/1/2022	1/1/2023	
End of Construction	12/31/2021	12/31/2022	10/18/2023	**Total**
Number of Days	274	364	290	928
Number of Hours	6,576	8,736	6,960	22,272
Number of Construction Days	197	260	208	665
Number of Construction Hours (8 hours/day)	1,576	2,080	1,664	5,320
Hours Per Year/Construction Hours per Year Factor				3.0

Size of the construction area source (Project Site): **59,161 sq-meters**

CalEEMod Run	Year	On-site Construction Activity	Unmitigated Onsite DPM (tons)*	Unmitigated Onsite PM2.5 (tons)*	Year	On-site Construction Activity	Mitigated Onsite DPM (tons)*	Mitigated Onsite PM2.5 (tons)*
Run 1	2021	Demolition	0.0432	0.0435	2021	Demolition	0.00186	0.00222
Run 1	2021	Site Preparation	0.0282	0.0951	2021	Site Preparation	0.00093	0.0681
Run 1	2021	Grading	0.0822	0.1551	2021	Grading	0.00456	0.0774
Run 1	2021	Stormwater Treatment Area	0.1353	0.1353	2021	Stormwater Treatment Area	0.0168	0.0168
Run 1	2021	Paving	0.0654	0.0654	2021	Paving	0.00393	0.00393
Run 2	2021	Building Construction	0.0363	0.0363	2021	Building Construction	0.0045	0.0045
Run 2	2022	Building Construction	0.0699	0.0699	2022	Building Construction	0.00933	0.00933
Run 2	2022	Paving	0.0068	0.0068	2022	Paving	0.00063	0.00063
Run 2	2022	Architectural Coatings	0.0012	0.0012	2022	Architectural Coatings	0.00006	0.00006
Run 3	2021	Building Construction	0.1023	0.1023	2021	Building Construction	0.01269	0.01269
Run 3	2022	Building Construction	0.0142	0.0142	2022	Building Construction	0.00189	0.00189
Run 3	2022	Paving	0.0068	0.0068	2022	Paving	0.00063	0.00063
Run 3	2022	Architectural Coatings	0.0012	0.0012	2022	Architectural Coatings	0.00006	0.00006
Run 4	2021	Building Construction	0.0270	0.0270	2021	Building Construction	0.00336	0.00336
Run 4	2022	Building Construction	0.0777	0.0777	2022	Building Construction	0.01038	0.01038
Run 4	2022	Paving	0.0068	0.0068	2022	Paving	0.00063	0.00063
Run 4	2022	Architectural Coatings	0.0012	0.0012	2022	Architectural Coatings	0.00006	0.00006
Run 5	2022	Building Construction	0.0780	0.0780	2022	Building Construction	0.01044	0.01044
Run 5	2023	Building Construction	0.0194	0.0194	2023	Building Construction	0.00273	0.00273
Run 5	2023	Paving	0.0060	0.0060	2023	Paving	0.00063	0.00063
Run 5	2023	Architectural Coatings	0.0011	0.0011	2023	Architectural Coatings	0.00006	0.00006
Run 6	2022	Building Construction	0.0146	0.0146	2022	Building Construction	0.00195	0.00195
Run 6	2023	Building Construction	0.0744	0.0744	2023	Building Construction	0.0105	0.0105
Run 6	2023	Paving	0.0060	0.0060	2023	Paving	0.00063	0.00063
Run 6	2023	Architectural Coatings	0.0011	0.0011	2023	Architectural Coatings	0.00006	0.00006

* Emissions modeled for 8 hours each day were adjusted using a factor of 3 to correct for 24 hour per day period averaging.

Total Unmitigated DPM (On-site)	9.061E-01	tons	**Total Mitigated DPM (On-site)**	9.930E-02	tons
Average Emission	8.227E+05	grams	Average Emission	9.016E+04	grams
	1.026E-02	grams/sec		1.125E-03	grams/sec
	1.734E-07	grams/m2-sec		1.901E-08	grams/m2-sec
Total Unmitigated PM2.5 (On-site)	1.046E+00	tons	**Total Mitigated PM2.5 (On-site)**	2.397E-01	tons
Average Emission	9.499E+05	grams	Average Emission	2.176E+05	grams
	1.185E-02	grams/sec		2.714E-03	grams/sec
	2.003E-07	grams/m2-sec		4.588E-08	grams/m2-sec

City of Santa Rosa—Stonebridge Subdivision Project

Project Site

Estimation of Annual Offsite Construction DPM Emissions (No Mitigation)

Start of Construction	4/1/2021	1/1/2022	1/1/2023	
End of Construction	12/31/2021	12/31/2022	10/18/2023	**Total**
Number of Days	274	364	290	928
Number of Hours	6,576	8,736	6,960	22,272
Number of Construction Days	197	260	208	665
Number of Construction Hours (8 hours/day)	1,576	2,080	1,664	5,320

Routes

Route 1 - Fulton Rd.>River Rd.> US 101 S on ramp or US 101 N on ramp
Route 2 - Fulton Rd. > Piner Rd. > Range Rd.> Bicentennial > 101 S
Route 3 - 100 S> Exit 494 for River Rd.> Fulton Rd.
Route 4 - 101 S> Bicentennial > Range Rd.> Piner Rd.>Fulton Rd.

		Run 1 2021	Run 1 2021	Run 1 2021	Run 1 2021	Run 1 2021	Run 2 2021	Run 2 2022	Run 2 2022	Run 2 2022	Run 3 2021	Run 3 2022	Run 3 2022	Run 3 2022	Run 4 2021	Run 4 2022	Run 4 2022	Run 5 2022	Run 5 2023	Run 5 2023	Run 5 2023	Run 6 2022	Run 6 2023	Run 6 2023	Run 6 2023
	Construction Trip Type	Demolition	Site Preparation	Grading	Stormwater Treatment Area	Paving	Building Construction	Building Construction	Paving	Architectural Coatings	Building Construction	Building Construction	Paving	Architectural Coatings	Building Construction	Building Construction	Paving	Architectural Coatings	Building Construction	Building Construction	Paving	Architectural Coatings	Building Construction	Building Construction	Paving	Architectural Coatings
DPM	Haul Truck	0.00001	0.00000	0.00006	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
DPM	Vendor Truck	0.00000	0.00000	0.00000	0.00172	0.00000	0.00002	0.00003	0.00000	0.00000	0.00005	0.00001	0.00000	0.00000	0.00001	0.00004	0.00000	0.00000	0.00004	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000
DPM	Worker	0.00001	0.00001	0.00002	0.00095	0.00003	0.00003	0.00003	0.00000	0.00000	0.00004	0.00001	0.00000	0.00000	0.00001	0.00004	0.00000	0.00000	0.00004	0.00001	0.00000	0.00001	0.00004	0.00000	0.00000
DPM	Total	0.00002	0.00001	0.00008	0.00267	0.00003	0.00004	0.00006	0.00000	0.00000	0.00009	0.00002	0.00000	0.00000	0.00002	0.00008	0.00000	0.00000	0.00008	0.00001	0.00000	0.00000	0.00002	0.00006	0.00000	0.00000
PM2.5 Total	Haul Truck	0.00005	0.00000	0.00037	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PM2.5 Total	Vendor Truck	0.00000	0.00000	0.00000	0.01410	0.00000	0.00014	0.00032	0.00000	0.00000	0.00037	0.00006	0.00000	0.00000	0.00011	0.00036	0.00000	0.00000	0.00033	0.00009	0.00000	0.00000	0.00006	0.00034	0.00000	0.00000
PM2.5 Total	Worker	0.00032	0.00019	0.00064	0.03620	0.00113	0.00057	0.00131	0.00016	0.00002	0.00162	0.00027	0.00016	0.00002	0.00043	0.00146	0.00016	0.00002	0.00147	0.00042	0.00016	0.00002	0.00027	0.00161	0.00016	0.00002
PM2.5 Total	Total	0.00037	0.00019	0.00101	0.05030	0.00113	0.00071	0.00163	0.00016	0.00002	0.00199	0.00033	0.00016	0.00002	0.00054	0.00182	0.00016	0.00002	0.00180	0.00051	0.00016	0.00002	0.00033	0.00195	0.00016	0.00002

		Haul Truck (tons)	**Vendor Truck (tons)**	**Worker (tons)**	**Total (tons)**
Total DPM		7.000E-05	1.950E-03	1.270E-03	3.290E-03
Total DPM After Scaled by 3		2.100E-04	5.850E-03	3.810E-03	9.870E-03
Average Emissions	Grams	1.907E+02	5.312E+03	3.459E+03	
	Grams/sec	2.378E-06	6.625E-05	4.315E-05	
	Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8	
Vehicle Travel Distances in the Construction HRA (miles)					
	Road Segment 1	0.71	0.71	0.71	miles
	Road Segment 2	0.62	0.62	0.62	miles
	Road Segment 3	0.71	0.71	0.71	miles
	Road Segment 4	0.60	0.60	0.60	miles
Trip Distribution (percent)					
	Road Segment 1	25%	25%	25%	
	Road Segment 2	25%	25%	25%	
	Road Segment 3	25%	25%	25%	
	Road Segment 4	25%	25%	25%	
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)					**Total**
	Road Segment 1	2.117E-08	1.615E-06	7.111E-07	2.348E-06
	Road Segment 2	1.849E-08	1.411E-06	6.212E-07	2.051E-06
	Road Segment 3	2.117E-08	1.615E-06	7.111E-07	2.348E-06
	Road Segment 4	1.775E-08	1.354E-06	5.963E-07	1.968E-06

		Haul Truck (tons)	**Vendor Truck (tons)**	**Worker (tons)**	**Total (tons)**
Total PM2.5 Total		4.200E-04	1.628E-02	4.881E-02	6.551E-02
Total PM2.5 Total After Scaled by 3		1.260E-03	4.884E-02	1.464E-01	1.965E-01
Average Emissions	Grams	1.144E+03	4.435E+04	1.330E+05	
	Grams/sec	1.427E-05	5.531E-04	1.658E-03	
	Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8	
Vehicle Travel Distances in the Construction HRA (miles)					
	Road Segment 1	0.71	0.71	0.71	miles
	Road Segment 2	0.62	0.62	0.62	miles
	Road Segment 3	0.71	0.71	0.71	miles
	Road Segment 4	0.60	0.60	0.60	miles
Trip Distribution (percent)					
	Road Segment 1	25%	25%	25%	
	Road Segment 2	25%	25%	25%	
	Road Segment 3	25%	25%	25%	
	Road Segment 4	25%	25%	25%	
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)					**Total**
	Road Segment 1	1.270E-07	1.349E-05	2.733E-05	4.094E-05
	Road Segment 2	1.109E-07	1.178E-05	2.388E-05	3.577E-05
	Road Segment 3	1.270E-07	1.349E-05	2.733E-05	4.094E-05
	Road Segment 4	1.065E-07	1.131E-05	2.292E-05	3.433E-05

City of Santa Rosa—Stonebridge Subdivision Project

Project Site

Construction Annual DPM Emissions (PM2.5 Exhaust)

Unmitigated Concentrations

Annual Average Onsite DPM Rate (grams/m2/sec):	1.73E-07
Annual Average Offsite DPM Emission Rate - Road Segment 2 (grams/sec):	2.35E-06
Annual Average Offsite DPM Emission Rate - Road Segment 3 (grams/sec):	2.05E-06
Annual Average Offsite DPM Emission Rate - Road Segment 4 (grams/sec):	2.35E-06
Annual Average Offsite DPM Emission Rate - Road Segment 5 (grams/sec):	1.97E-06

Unmitigated DPM Concentrations		
Maximum DPM (ug/m3)	**MIR UTM X**	**Y**
1.1483E-01	520285.95	4258692.95

X	Y	Onsite Project Site Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 1 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 2 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 3 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 4 Unit Emissions VALUES AVERAGED AVERAGE CONC	Onsite Project Site Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 4 Annual DPM Exhaust w/Actual Emissions (ug/m3)	**Total DPM (ug/m3)**
520285.95	4258692.95	662010.4627	0.70541	0.47948	0.67924	0.51632	1.15E-01	1.66E-06	9.83E-07	1.59E-06	1.02E-06	1.1483E-01
520276.05	4258692.97	661730.7007	0.7558	0.50671	0.7262	0.54656	1.15E-01	1.77E-06	1.04E-06	1.70E-06	1.08E-06	1.1478E-01
520266.15	4258692.98	661237.0252	0.81334	0.53678	0.77956	0.57991	1.15E-01	1.91E-06	1.10E-06	1.83E-06	1.14E-06	1.1469E-01
520295.85	4258692.94	660914.3292	0.66038	0.45448	0.63708	0.4886	1.15E-01	1.55E-06	9.32E-07	1.50E-06	9.62E-07	1.1464E-01
520256.24	4258693	658495.184	0.87811	0.56962	0.83922	0.61631	1.14E-01	2.06E-06	1.17E-06	1.97E-06	1.21E-06	1.1422E-01
520305.75	4258692.92	656765.0041	0.61928	0.43121	0.59835	0.46286	1.14E-01	1.45E-06	8.84E-07	1.40E-06	9.11E-07	1.1392E-01
520246.34	4258693.02	654632.1663	0.95238	0.60592	0.90721	0.65636	1.14E-01	2.24E-06	1.24E-06	2.13E-06	1.29E-06	1.1355E-01
520315.65	4258692.9	650173.4768	0.58193	0.40963	0.56299	0.43904	1.13E-01	1.37E-06	8.40E-07	1.32E-06	8.64E-07	1.1277E-01
520236.44	4258693.03	647446.2042	1.03669	0.64581	0.9838	0.70018	1.12E-01	2.43E-06	1.32E-06	2.31E-06	1.38E-06	1.1230E-01
520325.55	4258692.89	642068.381	0.54847	0.38984	0.53118	0.41722	1.11E-01	1.29E-06	8.00E-07	1.25E-06	8.21E-07	1.1137E-01
520226.54	4258693.05	639146.7769	1.1371	0.69147	1.07491	0.74946	1.11E-01	2.67E-06	1.42E-06	2.52E-06	1.48E-06	1.1087E-01
520285.96	4258702.95	630959.6637	0.71756	0.46523	0.69024	0.50115	1.09E-01	1.68E-06	9.54E-07	1.62E-06	9.87E-07	1.0944E-01
520276.06	4258702.97	630957.2012	0.7694	0.49114	0.73836	0.52988	1.09E-01	1.81E-06	1.01E-06	1.73E-06	1.04E-06	1.0944E-01
520335.45	4258692.87	630938.432	0.51801	0.37153	0.50211	0.39707	1.09E-01	1.22E-06	7.62E-07	1.18E-06	7.82E-07	1.0944E-01
520266.16	4258702.98	630036.8694	0.82794	0.51957	0.79239	0.56129	1.09E-01	1.94E-06	1.07E-06	1.86E-06	1.10E-06	1.0928E-01
520295.86	4258702.94	629016.2959	0.6711	0.44135	0.64686	0.47468	1.09E-01	1.58E-06	9.05E-07	1.52E-06	9.34E-07	1.0910E-01
520256.26	4258703	627344.6224	0.89421	0.55071	0.85319	0.59556	1.09E-01	2.10E-06	1.13E-06	2.00E-06	1.17E-06	1.0882E-01
520216.64	4258693.07	626935.9391	1.2529	0.74154	1.17902	0.80314	1.09E-01	2.94E-06	1.52E-06	2.77E-06	1.58E-06	1.0875E-01
520305.77	4258702.92	624933.273	0.62914	0.41927	0.60745	0.45023	1.08E-01	1.48E-06	8.60E-07	1.43E-06	8.86E-07	1.0840E-01
520246.36	4258703.02	622952.3412	0.96996	0.58507	0.92233	0.63309	1.08E-01	2.28E-06	1.20E-06	2.17E-06	1.25E-06	1.0806E-01
520315.67	4258702.9	618385.3726	0.59112	0.39882	0.57155	0.42761	1.07E-01	1.39E-06	8.18E-07	1.34E-06	8.42E-07	1.0726E-01
520236.46	4258703.03	616231.652	1.05663	0.62291	1.00088	0.67408	1.07E-01	2.48E-06	1.28E-06	2.35E-06	1.33E-06	1.0689E-01
520345.35	4258692.85	615114.5187	0.48991	0.35441	0.47519	0.37827	1.07E-01	1.15E-06	7.27E-07	1.12E-06	7.45E-07	1.0669E-01
520206.74	4258693.08	611044.6617	1.39025	0.79675	1.30102	0.86205	1.06E-01	3.26E-06	1.63E-06	3.05E-06	1.70E-06	1.0599E-01
520325.57	4258702.89	610001.1955	0.5568	0.37996	0.53899	0.40674	1.06E-01	1.31E-06	7.79E-07	1.27E-06	8.01E-07	1.0581E-01
520226.56	4258703.05	607387.9481	1.15843	0.6654	1.09288	0.71947	1.05E-01	2.72E-06	1.36E-06	2.57E-06	1.42E-06	1.0536E-01
520335.47	4258702.87	599219.393	0.52565	0.36253	0.50934	0.3875	1.04E-01	1.23E-06	7.44E-07	1.20E-06	7.63E-07	1.0394E-01
520216.66	4258703.07	595412.1692	1.27692	0.71237	1.19948	0.76912	1.03E-01	3.00E-06	1.46E-06	2.82E-06	1.51E-06	1.0328E-01
520355.25	4258692.84	594099.7587	0.46433	0.33858	0.45059	0.36092	1.03E-01	1.09E-06	6.94E-07	1.06E-06	7.10E-07	1.0305E-01
520196.84	4258693.1	589909.9555	1.55429	0.85851	1.44609	0.92722	1.02E-01	3.65E-06	1.76E-06	3.39E-06	1.83E-06	1.0233E-01
520345.37	4258702.85	583195.2902	0.49683	0.34617	0.48175	0.36946	1.01E-01	1.17E-06	7.10E-07	1.13E-06	7.27E-07	1.0116E-01
520206.76	4258703.08	579527.2475	1.4173	0.76346	1.32431	0.82309	1.01E-01	3.33E-06	1.57E-06	3.11E-06	1.62E-06	1.0053E-01
520157.12	4258646.05	572750.5551	2.41391	1.62136	2.20438	1.77451	9.93E-02	5.67E-06	3.33E-06	5.18E-06	3.49E-06	9.9359E-02
520365.15	4258692.82	564099.0537	0.44038	0.32363	0.42748	0.34458	9.78E-02	1.03E-06	6.64E-07	1.00E-06	6.78E-07	9.7844E-02
520355.27	4258702.84	562308.3214	0.4705	0.33099	0.45646	0.35275	9.75E-02	1.10E-06	6.79E-07	1.07E-06	6.94E-07	9.7533E-02
520186.94	4258693.12	561775.8411	1.75507	0.92751	1.62237	0.99969	9.74E-02	4.12E-06	1.90E-06	3.81E-06	1.97E-06	9.7449E-02
520157.12	4258655.32	561759.9611	2.48739	1.52577	2.26179	1.65906	9.74E-02	5.84E-06	3.13E-06	5.31E-06	3.27E-06	9.7452E-02
520196.86	4258703.1	558250.8976	1.58571	0.81999	1.47332	0.88255	9.68E-02	3.72E-06	1.68E-06	3.46E-06	1.74E-06	9.6837E-02
520147.12	4258646.05	551368.5226	2.90149	1.83714	2.61828	2.00195	9.56E-02	6.81E-06	3.77E-06	6.15E-06	3.94E-06	9.5653E-02
520147.12	4258655.32	539010.2038	2.98985	1.71437	2.6866	1.85484	9.35E-02	7.02E-06	3.52E-06	6.31E-06	3.65E-06	9.3509E-02
520365.17	4258702.82	534151.4274	0.44628	0.31685	0.4331	0.33721	9.26E-02	1.05E-06	6.50E-07	1.02E-06	6.64E-07	9.2650E-02
520157.12	4258664.6	531634.1877	2.55475	1.43574	2.31624	1.55154	9.22E-02	6.00E-06	2.94E-06	5.44E-06	3.05E-06	9.2227E-02
520186.96	4258703.12	529735.306	1.79066	0.88188	1.65298	0.94795	9.19E-02	4.20E-06	1.81E-06	3.88E-06	1.87E-06	9.1892E-02
520177.04	4258693.13	525404.7531	2.00342	1.00358	1.83797	1.07998	9.11E-02	4.70E-06	2.06E-06	4.31E-06	2.13E-06	9.1142E-02
520137.12	4258646.05	525153.9319	3.57866	2.09768	3.18247	2.27288	9.11E-02	8.40E-06	4.30E-06	7.47E-06	4.47E-06	9.1110E-02
520375.05	4258692.8	523276.3796	0.41865	0.30989	0.40644	0.32958	9.08E-02	9.83E-07	6.36E-07	9.54E-07	6.49E-07	9.0763E-02
520137.12	4258655.32	512025.5326	3.6851	1.93506	3.26165	2.08215	8.88E-02	8.65E-06	3.97E-06	7.66E-06	4.10E-06	8.8833E-02
520276.1	4258722.97	505674.2331	0.79371	0.46183	0.75976	0.49782	8.77E-02	1.86E-06	9.47E-07	1.78E-06	9.80E-07	8.7712E-02
520286	4258722.95	505256.639	0.73952	0.43808	0.70971	0.47189	8.76E-02	1.74E-06	8.98E-07	1.67E-06	9.29E-07	8.7640E-02
520266.2	4258722.98	504669.1133	0.85464	0.48778	0.8158	0.52592	8.75E-02	2.01E-06	1.00E-06	1.92E-06	1.04E-06	8.7539E-02
520295.9	4258722.94	503301.2402	0.69121	0.41641	0.66492	0.44806	8.73E-02	1.62E-06	8.54E-07	1.56E-06	8.82E-07	8.7300E-02
520147.12	4258664.6	502477.166	3.06715	1.599	2.74954	1.72011	8.72E-02	7.20E-06	3.28E-06	6.46E-06	3.39E-06	8.7173E-02
520256.29	4258723	502068.1672	0.92375	0.51606	0.87902	0.55632	8.71E-02	2.17E-06	1.06E-06	2.06E-06	1.10E-06	8.7088E-02
520305.8	4258722.92	499711.4967	0.64774	0.39649	0.6244	0.42605	8.67E-02	1.52E-06	8.13E-07	1.47E-06	8.39E-07	8.6677E-02
520246.39	4258723.02	497859.4119	1.00257	0.54684	0.95073	0.58917	8.64E-02	2.35E-06	1.12E-06	2.23E-06	1.16E-06	8.6358E-02
520375.07	4258702.8	495316.0666	0.42383	0.30359	0.41136	0.32267	8.59E-02	9.95E-07	6.23E-07	9.66E-07	6.35E-07	8.5914E-02
520315.7	4258722.9	493976.8157	0.60825	0.37772	0.58724	0.40533	8.57E-02	1.43E-06	7.75E-07	1.38E-06	7.98E-07	8.5682E-02
520157.12	4258673.87	493534.2778	2.61469	1.34986	2.36669	1.45215	8.56E-02	6.14E-06	2.77E-06	5.56E-06	2.86E-06	8.5619E-02
520127.12	4258646.05	492895.6744	4.55641	2.41345	3.98368	2.59237	8.55E-02	1.07E-05	4.95E-06	9.35E-06	5.10E-06	8.5521E-02
520236.49	4258723.03	491916.287	1.09317	0.58035	1.03274	0.62471	8.53E-02	2.57E-06	1.19E-06	2.42E-06	1.23E-06	8.5328E-02
520177.05	4258703.13	491915.5288	2.04404	0.94969	1.87746	1.02006	8.53E-02	4.80E-06	1.95E-06	4.40E-06	2.01E-06	8.5334E-02
520325.6	4258722.89	485086.5142	0.57235	0.36042	0.55332	0.38619	8.41E-02	1.34E-06	7.39E-07	1.30E-06	7.60E-07	8.4140E-02
520226.59	4258723.05	483881.6868	1.19826	0.61692	1.12753	0.66328	8.39E-02	2.81E-06	1.27E-06	2.65E-06	1.31E-06	8.3935E-02
520127.12	4258655.32	480354.9216	4.68376	2.19799	4.07203	2.34136	8.33E-02	1.10E-05	4.51E-06	9.56E-06	4.61E-06	8.3345E-02
520167.14	4258693.15	479970.9033	2.31789	1.08767	2.10702	1.16908	8.32E-02	5.44E-06	2.23E-06	4.95E-06	2.30E-06	8.3264E-02
520335.5	4258722.87	473811.8752	0.53964	0.34439	0.52227	0.36844	8.22E-02	1.27E-06	7.06E-07	1.23E-06	7.25E-07	8.2184E-02
520137.12	4258664.6	473513.4601	3.77541	1.78691	3.33266	1.91154	8.21E-02	8.86E-06	3.66E-06	7.82E-06	3.76E-06	8.2153E-02
520216.69	4258723.07	473418.3444	1.32151	0.65686	1.23821	0.70529	8.21E-02	3.10E-06	1.35E-06	2.91E-06	1.39E-06	8.2121E-02
520384.96	4258692.79	467816.7544	0.39843	0.29701	0.38682	0.31554	8.11E-02	9.35E-07	6.09E-07	9.08E-07	6.21E-07	8.1144E-02
520157.12	4258683.15	461931.6033	2.67282	1.26628	2.40997	1.36004	8.01E-02	6.27E-06	2.60E-06	5.66E-06	2.68E-06	8.0137E-02
520206.79	4258723.08	459749.9231	1.46709	0.69966	1.36788	0.75072	7.97E-02	3.44E-06	1.43E-06	3.21E-06	1.48E-06	7.9751E-02
520345.4	4258722.85	459676.8086	0.50982	0.32951	0.49383	0.35197	7.97E-02	1.20E-06	6.76E-07	1.16E-06	6.93E-07	7.9733E-02
520147.12	4258673.87	458448.1957	3.13449	1.40094	2.80621	1.59781	7.95E-02	7.36E-06	3.06E-06	6.59E-06	3.15E-06	7.9536E-02
520117.12	4258646.05	453337.2361	6.02456	2.80275	5.18464	2.95182	7.86E-02	1.41E-05	5.75E-06	1.22E-05	5.81E-06	7.8667E-02
520384.97	4258702.79	444201.6386	0.40308	0.2912	0.39121	0.30911	7.70E-02	9.46E-07	5.97E-07	9.18E-07	6.08E-07	7.7048E-02
520286.01	4258732.95	443470.6967	0.74861	0.42495	0.71744	0.45747	7.69E-02	1.76E-06	8.72E-07	1.68E-06	9.01E-07	7.6923E-02
520276.11	4258732.97	443321.6464	0.80306	0.44739	0.76758	0.48176	7.69E-02	1.89E-06	9.18E-07	1.80E-06	9.48E-07	7.6898E-02
520295.91	4258732.94	443194.7901	0.70049	0.40463	0.67307	0.43525	7.69E-02	1.64E-06	8.30E-07	1.58E-06	8.57E-07	7.6875E-02
520117.12	4258655.32	442679.2421	6.17731	2.51752	5.27774	2.61964	7.68E-02	1.45E-05	5.16E-06	1.24E-05	5.16E-06	7.6818E-02
520196.89	4258723.1	441936.3227	1.64127	0.74603	1.52191	0.80023	7.67E-02	3.85E-06	1.53E-06	3.57E-06	1.58E-06	7.6662E-02
520266.21	4258732.98	441922.7961	0.8643	0.47181	0.82376	0.50799	7.66E-02	2.03E-06	9.68E-07	1.93E-06	1.00E-06	7.6655E-02
520355.3	4258722.84	441578.9503	0.48248	0.31564	0.46764	0.33663	7.66E-02	1.13E-06	6.47E-07	1.10E-06	6.63E-07	7.6593E-02
520127.12	4258664.6	441242.8549	4.78308	2.01127	4.15275	2.12313	7.65E-02	1.12E-05	4.12E-06	9.75E-06	4.18E-06	7.6565E-02
520256.31	4258733	440473.4092	0.93504	0.49867	0.88843	0.53664	7.64E-02	2.20E-06	1.02E-06	2.09E-06	1.06E-06	7.6404E-02
520305.82	4258732.92	439595.7048	0.65618	0.3856	0.63191	0.41433	7.62E-02	1.54E-06	7.91E-07	1.48E-06	8.16E-07	7.6251E-02
520246.41	4258733.02	436140.439	1.01423	0.52751	0.96051	0.56717	7.56E-02	2.38E-06	1.08E-06	2.25E-06	1.12E-06	7.5653E-02
520236.51	4258733.03	430262.5705	1.10508	0.55874	1.04291	0.60012	7.46E-02	2.59E-06	1.15E-06	2.45E-06	1.18E-06	7.4634E-02
520315.72	4258732.9	430094.6625	0.61423	0.36682	0.59234	0.39379	7.46E-02	1.44E-06	7.52E-07	1.39E-06	7.75E-07	7.4602E-02
520226.61	4258733.05	425077.4163	1.2144	0.59309	1.14168	0.63637	7.37E-02	2.85E-06	1.22E-06	2.68E-06	1.25E-06	7.3736E-02
520137.12	4258673.87	425012.9196	3.84051	1.65525	3.3984	1.75984	7.37E-02	9.02E-06	3.39E-06	7.98E-06	3.46E-06	7.3740E-02
520325.62	4258732.89	422924.2617	0.57832	0.35049	0.55854	0.37573	7.34E-02	1.36E-06	7.19E-07	1.31E-06	7.40E-07	7.3358E-02
520147.12	4258683.15	422825.3067	3.20665	1.38833	2.8509	1.48633	7.33E-02	7.53E-06	2.85E-06	6.69E-06	2.93E-06	7.3357E-02
520160.07	4258700.23	421059.4477	2.63003	1.10318	2.36922	1.18257	7.30E-02	6.17E-06	2.26E-06	5.56E-06	2.33E-06	7.3047E-02
520365.2	4258722.82	419786.6962	0.45753	0.30285	0.44368	0.32246	7.28E-02	1.07E-06	6.21E-07	1.04E-06	6.35E-07	7.2813E-02
520186.99	4258723.12	418859.9409	1.85237	0.79609	1.70623	0.85397	7.26E-02	4.35E-06	1.63E-06	4.01E-06	1.68E-06	7.2665E-02
520216.71	4258733.07	416895.7376	1.34162	0.6299	1.25594	0.67537	7.23E-02	3.15E-06	1.29E-06	2.95E-06	1.33E-06	7.2317E-02
520335.52	4258732.87	412508.9499	0.5451	0.33513	0.5271	0.35875	7.15E-02	1.28E-06	6.87E-07	1.24E-06	7.06E-07	7.1552E-02
520117.12	4258664.6	405962.6887	6.2821	2.2804	5.36663	2.34026	7.04E-02	1.47E-05	4.68E-06	1.26E-05	4.61E-06	7.0449E-02
520107.12	4258646.05	405286.502	8.29137	3.27618	7.12267	3.30505	7.03E-02	1.95E-05	6.72E-06	1.67E-05	6.51E-06	7.0345E-02
520206.81	4258733.08	403304.9696	1.48556	0.66809	1.38397	0.71652	7.00E-02	3.49E-06	1.37E-06	3.25E-06	1.41E-06	6.9961E-02
520394.86	4258692.77	402093.9677	0.37942	0.28482	0.36831	0.30228	6.97E-02	8.91E-07	5.84E-07	8.65E-07	5.95E-07	6.9744E-02
520345.42	4258732.85	398873.3084	0.51451	0.32073	0.498	0.34282	6.92E-02	1.21E-06	6.58E-07	1.17E-06	6.75E-07	6.9186E-02
520107.12	4258655.32	396695.3815	8.46977	2.89289	7.213	2.87536	6.88E-02	1.99E-05	5.93E-06	1.69E-05	5.66E-06	6.8853E-02
520276.13	4258742.97	393455.3145	0.81425	0.43442	0.77748	0.46701	6.82E-02	1.91E-06	8.91E-07	1.83E-06	9.19E-07	6.8249E-02
520286.03	4258742.95	393424.8123	0.75885	0.41304	0.72651	0.44405	6.82E-02	1.78E-06	8.47E-07	1.71E-06	8.74E-07	6.8243E-02
520295.93	4258742.94	392026.7775	0.70941	0.3935	0.68093	0.42289	6.80E-02	1.67E-06	8.07E-07	1.60E-06	8.32E-07	6.8000E-02
520127.12	4258673.87	392001.7998	4.82933	1.85072	4.22761	1.93337	6.80E-02	1.13E-05	3.80E-06	9.93E-06	3.81E-06	6.8020E-02
520266.23	4258742.98	391798.814	0.87593	0.45746	0.83403	0.49154	6.80E-02	2.06E-06	9.38E-07	1.96E-06	9.68E-07	6.7962E-02
520375.11	4258722.8	390522.566	0.43414	0.29067	0.42107	0.30901	6.77E-02	1.02E-06	5.96E-07	9.89E-07	6.08E-07	6.7738E-02
520256.33	4258743	390273.9548	0.94759	0.48275	0.89956	0.51832	6.77E-02	2.22E-06	9.90E-07	2.11E-06	1.02E-06	6.7698E-02
520177.09	4258723.13	390188.0308	2.11218	0.85123	1.93009	0.91256	6.77E-02	4.96E-06	1.75E-06	4.53E-06	1.80E-06	6.7689E-02
520305.83	4258742.92	388393.5673	0.66434	0.37519	0.6391	0.40297	6.74E-02	1.56E-06	7.69E-07	1.50E-06	7.93E-07	6.7370E-02
520137.12	4258683.15	388111.7385	3.93849	1.53176	3.44433	1.62481	6.73E-02	9.25E-06	3.14E-06	8.09E-06	3.20E-06	6.7340E-02
520246.43	4258743.02	386888.3886	1.02862	0.50985	0.9734	0.54694	6.71E-02	2.41E-06	1.05E-06	2.29E-06	1.08E-06	6.7111E-02
520196.91	4258733.1	386868.8806	1.65823	0.70949	1.53631	0.76131	6.71E-02	3.89E-06	1.46E-06	3.61E-06	1.50E-06	6.7111E-02
520394.87	4258702.77	383280.803	0.38378	0.27957	0.37241	0.29641	6.65E-02	9.01E-07	5.73E-07	8.74E-07	5.83E-07	6.6481E-02
520355.32	4258732.84	382917.3022	0.48694	0.30754	0.47163	0.32819	6.64E-02	1.14E-06	6.31E-07	1.11E-06	6.46E-07	6.6419E-02
520236.53	4258743.03	382285.2374	1.12206	0.539	1.05818	0.57776	6.63E-02	2.63E-06	1.11E-06	2.48E-06	1.14E-06	6.6313E-02
520315.73	4258742.9	379516.2051	0.6214	0.357	0.59862	0.38323	6.58E-02	1.46E-06	7.32E-07	1.41E-06	7.54E-07	6.5830E-02
520226.63	4258743.05	377159.099	1.23258	0.57048	1.15802	0.61121	6.54E-02	2.89E-06	1.17E-06	2.72E-06	1.20E-06	6.5425E-02
520325.63	4258742.89	372767.896	0.58501	0.34135	0.56444	0.36601	6.47E-02	1.37E-06	7.00E-07	1.33E-06	7.20E-07	6.4659E-02
520216.72	4258743.07	369290.478	1.36068	0.60388	1.2729	0.64707	6.41E-02	3.19E-06	1.24E-06	2.99E-06	1.27E-06	6.4060E-02
520187.01	4258733.12	367383.6721	1.86951	0.75494	1.7206	0.81017	6.37E-02	4.39E-06	1.55E-06	4.04E-06	1.59E-06	6.3733E-02
520107.12	4258664.6	364666.488	8.58552	2.58252	7.30115	2.52874	6.32E-02	2.02E-05	5.30E-06	1.71E-05	4.98E-06	6.3297E-02
520365.22	4258732.82	364491.551	0.46206	0.29545	0.44773	0.31478	6.32E-02	1.08E-06	6.06E-07	1.05E-06	6.20E-07	6.3223E-02
520335.53	4258742.87	363255.4372	0.55134	0.32663	0.53264	0.34978	6.30E-02	1.29E-06	6.70E-07	1.25E-06	6.89E-07	6.3009E-02
520117.12	4258673.87	358682.5779	6.27831	2.08017	5.44927	2.10424	6.22E-02	1.47E-05	4.27E-06	1.28E-05	4.14E-06	6.2248E-02
520206.82	4258743.08	357457.2179	1.50677	0.63879	1.40259	0.68501	6.20E-02	3.54E-06	1.31E-06	3.29E-06	1.35E-06	6.2009E-02
520142.99	4258697.3	357304.0426	3.5693	1.30295	3.14066	1.38187	6.20E-02	8.38E-06	2.67E-06	7.37E-06	2.72E-06	6.1994E-02
520127.12	4258683.15	356214.8165	4.97931	1.70276	4.27691	1.76981	6.18E-02	1.17E-05	3.49E-06	1.00E-05	3.48E-06	6.1819E-02
520385.01	4258722.79	354960.1158	0.41245	0.27924	0.40003	0.2964	6.16E-02	9.68E-07	5.73E-07	9.39E-07	5.83E-07	6.1569E-02
520345.44	4258742.85	351174.4886	0.52041	0.31286	0.50328	0.33457	6.09E-02	1.22E-06	6.42E-07	1.18E-06	6.59E-07	6.0913E-02
520276.15	4258752.97	350226.7969	0.82382	0.42162	0.78592	0.45238	6.07E-02	1.93E-06	8.65E-07	1.85E-06	8.91E-07	6.0751E-02
520286.05	4258752.95	349840.2368	0.76761	0.40127	0.73414	0.43073	6.07E-02	1.80E-06	8.23E-07	1.72E-06	8.48E-07	6.0683E-02
520266.25	4258752.98	349714.4292	0.8874	0.44361	0.84432	0.47567	6.07E-02	2.08E-06	9.10E-07	1.98E-06	9.36E-07	6.0662E-02
520295.95	4258752.94	348899.204	0.71784	0.38263	0.68827	0.41072	6.05E-02	1.69E-06	7.85E-07	1.62E-06	8.08E-07	6.0520E-02
520256.34	4258753	348163.1831	0.95986	0.46728	0.91064	0.50068	6.04E-02	2.25E-06	9.58E-07	2.14E-06	9.86E-07	6.0394E-02
520097.12	4258646.05	347956.3173	11.65187	3.77005	10.63734	3.54717	6.04E-02	2.74E-05	7.73E-06	2.50E-05	6.98E-06	6.0418E-02
520305.85	4258752.92	345341.9954	0.67218	0.36519	0.64593	0.39188	5.99E-02	1.58E-06	7.49E-07	1.52E-06	7.71E-07	5.9903E-02
520246.44	4258753.02	345010.8408	1.04171	0.49242	0.98527	0.52729	5.98E-02	2.45E-06	1.01E-06	2.31E-06	1.04E-06	5.9847E-02
520177.1	4258733.13	344232.1051	2.13034	0.80545	1.94512	0.86335	5.97E

520177.12	4258743.13	307433.964	2.15529	0.76532	1.96619	0.81915	5.33E-02	5.06E-06	1.57E-06	4.62E-06	1.61E-06	5.3336E-02
520343.86	4258473.14	307369.3703	0.36323	0.49071	0.36119	0.53516	5.33E-02	8.53E-07	1.01E-06	8.48E-07	1.05E-06	5.3316E-02
520196.94	4258753.1	306508.537	1.7	0.64589	1.57248	0.69295	5.32E-02	3.99E-06	1.32E-06	3.69E-06	1.36E-06	5.3173E-02
520285.12	4258472.96	305923.0394	0.46418	0.72976	0.46237	0.80594	5.31E-02	1.09E-06	1.50E-06	1.09E-06	1.59E-06	5.3066E-02
520236.56	4258763.03	305242.9034	1.14743	0.49943	1.08134	0.53454	5.29E-02	2.69E-06	1.02E-06	2.54E-06	1.05E-06	5.2950E-02
520353.64	4258473.18	304906.1484	0.34956	0.46374	0.34766	0.50442	5.29E-02	8.21E-07	9.51E-07	8.16E-07	9.93E-07	5.2888E-02
520120.79	4258692	304057.1432	5.94848	1.6873	5.04001	1.70436	5.27E-02	1.40E-05	3.46E-06	1.18E-05	3.36E-06	5.2770E-02
520275.33	4258472.93	303845.8375	0.48512	0.7875	0.48306	0.87185	5.27E-02	1.14E-06	1.62E-06	1.13E-06	1.72E-06	5.2706E-02
520315.77	4258762.9	302711.3836	0.6364	0.33922	0.61179	0.3636	5.25E-02	1.49E-06	6.96E-07	1.44E-06	7.16E-07	5.2508E-02
520265.55	4258472.9	301433.2026	0.50759	0.85278	0.50514	0.94681	5.23E-02	1.19E-06	1.75E-06	1.19E-06	1.86E-06	5.2288E-02
520226.66	4258763.05	301251.3709	1.2613	0.52631	1.18384	0.5637	5.23E-02	2.96E-06	1.08E-06	2.78E-06	1.11E-06	5.2259E-02
520411.9	4258689.91	301035.6197	0.34861	0.26683	0.33828	0.28283	5.22E-02	8.18E-07	5.47E-07	7.94E-07	5.57E-07	5.2216E-02
520363.43	4258473.21	300053.3675	0.33664	0.43866	0.33448	0.47603	5.20E-02	7.90E-07	9.00E-07	7.86E-07	9.37E-07	5.2046E-02
520375.14	4258742.8	298699.69	0.4422	0.277	0.42831	0.29484	5.18E-02	1.04E-06	5.68E-07	1.01E-06	5.80E-07	5.1811E-02
520355.35	4258752.84	298671.9701	0.49749	0.293	0.48105	0.313	5.18E-02	1.17E-06	6.01E-07	1.13E-06	6.16E-07	5.1807E-02
520255.76	4258472.87	298393.792	0.53165	0.52869	0.52809	1.03215	5.18E-02	1.25E-06	1.90E-06	1.24E-06	2.03E-06	5.1761E-02
520325.67	4258762.89	296118.0267	0.59816	0.32449	0.57593	0.34765	5.14E-02	1.40E-06	6.66E-07	1.35E-06	6.84E-07	5.1364E-02
520216.76	4258763.07	295750.1791	1.39413	0.55483	1.30253	0.59474	5.13E-02	3.27E-06	1.14E-06	3.06E-06	1.17E-06	5.1305E-02
520245.97	4258472.84	294852.677	0.55746	1.01014	0.55415	1.13019	5.11E-02	1.31E-06	2.07E-06	1.30E-06	2.22E-06	5.1148E-02
520373.22	4258473.24	294038.7965	0.32441	0.41565	0.32263	0.45004	5.10E-02	7.62E-07	8.52E-07	7.57E-07	8.86E-07	5.1003E-02
520149.5	4258725.84	293506.6039	3.28357	1.02766	2.90592	1.08172	5.09E-02	7.71E-06	2.11E-06	6.82E-06	2.13E-06	5.0926E-02
520324.31	4258463.08	292757.9722	0.38593	0.5623	0.38497	0.61518	5.08E-02	9.06E-07	1.15E-06	9.04E-07	1.21E-06	5.0782E-02
520314.52	4258463.05	292651.8782	0.40143	0.60011	0.40051	0.65781	5.08E-02	9.42E-07	1.23E-06	9.40E-07	1.29E-06	5.0764E-02
520187.04	4258753.12	292520.9451	1.91434	0.68489	1.75888	0.73404	5.07E-02	4.49E-06	1.40E-06	4.13E-06	1.44E-06	5.0748E-02
520334.1	4258463.11	292254.7825	0.37132	0.52792	0.37021	0.57656	5.07E-02	8.72E-07	1.08E-06	8.69E-07	1.13E-06	5.0694E-02
520304.73	4258463.02	292020.5697	0.41787	0.64196	0.41688	0.70515	5.06E-02	9.81E-07	1.32E-06	9.79E-07	1.39E-06	5.0654E-02
520343.89	4258463.14	291048.6843	0.35748	0.4969	0.35625	0.54166	5.05E-02	8.39E-07	1.02E-06	8.36E-07	1.07E-06	5.0485E-02
520294.94	4258462.99	290883.374	0.43532	0.68855	0.43413	0.75807	5.05E-02	1.02E-06	1.41E-06	1.02E-06	1.49E-06	5.0457E-02
520107.12	4258683.15	290861.2075	8.83842	2.10028	7.43733	2.01516	5.04E-02	2.07E-05	4.31E-06	1.75E-05	3.97E-06	5.0499E-02
520236.18	4258472.81	290657.2599	0.58527	1.1071	0.58213	1.24422	5.04E-02	1.37E-06	2.27E-06	1.37E-06	2.45E-06	5.0421E-02
520408.97	4258706.94	290326.3214	0.36	0.26211	0.34908	0.27735	5.04E-02	8.45E-07	5.38E-07	8.20E-07	5.46E-07	5.0359E-02
520383.01	4258473.27	289318.9019	0.31291	0.39405	0.31103	0.42588	5.02E-02	7.35E-07	8.08E-07	7.30E-07	8.38E-07	5.0184E-02
520285.15	4258462.96	289266.1503	0.45389	0.74076	0.45236	0.81766	5.02E-02	1.07E-06	1.52E-06	1.06E-06	1.61E-06	5.0177E-02
520353.67	4258463.18	288080.5409	0.34433	0.46911	0.34309	0.51022	5.00E-02	8.08E-07	9.62E-07	8.05E-07	1.00E-06	4.9970E-02
520124.46	4258700.84	287791.9041	5.46281	1.5151	4.65242	1.53607	4.99E-02	1.28E-05	3.11E-06	1.09E-05	3.02E-06	4.9946E-02
520335.57	4258762.87	287744.711	0.56307	0.31067	0.54287	0.33264	4.99E-02	1.32E-06	6.37E-07	1.27E-06	6.55E-07	4.9912E-02
520275.37	4258462.93	287212.9599	0.47366	0.79909	0.47168	0.88478	4.98E-02	1.11E-06	1.64E-06	1.11E-06	1.74E-06	4.9821E-02
520167.22	4258743.15	286402.3925	2.48069	0.81779	2.2428	0.87084	4.97E-02	5.82E-06	1.68E-06	5.27E-06	1.71E-06	4.9690E-02
520206.86	4258763.08	286348.8114	1.54078	0.58452	1.43237	0.62704	4.97E-02	3.62E-06	1.20E-06	3.36E-06	1.23E-06	4.9675E-02
520226.39	4258472.78	286111.8106	0.61498	1.21923	0.61294	1.37703	4.96E-02	1.44E-06	2.50E-06	1.44E-06	2.71E-06	4.9633E-02
520265.58	4258462.9	284685.1689	0.49476	0.86524	0.49241	0.96126	4.94E-02	1.16E-06	1.77E-06	1.16E-06	1.89E-06	4.9383E-02
520365.25	4258752.82	284157.1373	0.47148	0.28169	0.45617	0.30045	4.93E-02	1.11E-06	5.78E-07	1.07E-06	5.91E-07	4.9289E-02
520276.18	4258772.97	283031.5062	0.84253	0.39716	0.80285	0.42461	4.91E-02	1.98E-06	8.15E-07	1.88E-06	8.36E-07	4.9096E-02
520087.12	4258846.05	283013.5226	12.31595	4.06718	18.58445	3.57844	4.91E-02	2.89E-05	8.34E-06	4.36E-05	7.04E-06	4.9175E-02
520266.28	4258772.98	282825.0237	0.90763	0.41643	0.8628	0.44508	4.91E-02	2.13E-06	8.54E-07	2.03E-06	8.76E-07	4.9061E-02
520363.46	4258463.21	282783.7456	0.33183	0.44359	0.3306	0.48138	4.90E-02	7.79E-07	9.10E-07	7.76E-07	9.48E-07	4.9051E-02
520286.08	4258772.95	282097.4704	0.78437	0.37894	0.74909	0.40532	4.89E-02	1.84E-06	7.77E-07	1.76E-06	7.98E-07	4.8934E-02
520255.79	4258462.87	281707.685	0.51729	0.93988	0.51479	1.04838	4.89E-02	1.21E-06	1.93E-06	1.21E-06	2.06E-06	4.8867E-02
520295.98	4258772.94	281385.0976	0.73397	0.36229	0.70254	0.38765	4.88E-02	1.72E-06	7.43E-07	1.65E-06	7.63E-07	4.8810E-02
520256.38	4258773	281346.1068	0.98064	0.43661	0.92975	0.46668	4.88E-02	2.30E-06	8.95E-07	2.18E-06	9.19E-07	4.8804E-02
520216.6	4258472.75	280661.851	1.35315	0.64745	1.53474	0.69744	4.87E-02	1.52E-06	2.78E-06	1.52E-06	3.02E-06	4.8688E-02
520097.12	4258673.87	279503.5641	11.5555	2.53205	10.81178	2.32385	4.85E-02	2.71E-05	5.19E-06	2.54E-05	4.57E-06	4.8541E-02
520246.48	4258773.02	279058.8694	1.06435	0.45804	1.00612	0.48985	4.84E-02	2.50E-06	9.39E-07	2.36E-06	9.64E-07	4.8408E-02
520087.11	4258836.77	278780.6896	12.06758	4.90768	18.62103	4.29346	4.84E-02	2.83E-05	1.01E-05	4.37E-05	8.45E-06	4.8444E-02
520392.8	4258473.3	278662.2932	0.30146	0.37277	0.29946	0.40235	4.83E-02	7.08E-07	7.65E-07	7.03E-07	7.92E-07	4.8339E-02
520345.47	4258762.85	278260.8142	0.53149	0.29799	0.51299	0.31876	4.83E-02	1.25E-06	6.11E-07	1.20E-06	6.27E-07	4.8267E-02
520246	4258462.84	278246.16	0.54133	1.02533	0.53925	1.14862	4.83E-02	1.27E-06	2.10E-06	1.27E-06	2.26E-06	4.8267E-02
520305.88	4258772.92	278160.5985	0.68702	0.34635	0.65894	0.37069	4.82E-02	1.61E-06	7.10E-07	1.55E-06	7.30E-07	4.8250E-02
520373.25	4258463.24	277646.9467	0.32002	0.42011	0.31875	0.45492	4.82E-02	7.51E-07	8.62E-07	7.48E-07	8.96E-07	4.8160E-02
520158.72	4258739.64	277462.8778	2.82169	0.38491	2.52898	0.9364	4.81E-02	6.62E-06	1.81E-06	5.94E-06	1.84E-06	4.8141E-02
520394.92	4258732.77	277030.9398	0.39498	0.26204	0.38276	0.2779	4.80E-02	9.27E-07	5.37E-07	8.99E-07	5.47E-07	4.8053E-02
520087.12	4258655.32	276702.3044	12.56411	3.45081	18.52842	3.04927	4.80E-02	2.95E-05	7.08E-06	4.35E-05	6.00E-06	4.8079E-02
520177.14	4258753.13	276595.2914	2.17715	0.72846	1.98474	0.77824	4.80E-02	5.11E-06	1.49E-06	4.66E-06	1.53E-06	4.7987E-02
520196.96	4258763.1	275708.4444	1.71663	0.61707	1.58692	0.66189	4.78E-02	4.03E-06	1.27E-06	3.73E-06	1.30E-06	4.7831E-02
520236.58	4258773.03	275511.2312	1.15945	0.48051	1.09237	0.51441	4.78E-02	2.72E-06	9.85E-07	2.56E-06	1.01E-06	4.7793E-02
520383.04	4258463.27	275426.5107	0.30893	0.39812	0.30743	0.43041	4.78E-02	7.25E-07	8.17E-07	7.22E-07	8.47E-07	4.7775E-02
520110.64	4258691.64	274769.7589	7.983	1.86847	6.69281	1.80934	4.77E-02	1.87E-05	3.83E-06	1.57E-05	3.56E-06	4.7699E-02
520206.81	4258472.72	274695.927	0.68054	1.51192	0.68543	1.72239	4.76E-02	1.60E-06	3.10E-06	1.61E-06	3.39E-06	4.7654E-02
520236.21	4258462.81	274259.0701	0.56692	1.1244	0.56619	1.26495	4.76E-02	1.33E-06	2.31E-06	1.33E-06	2.49E-06	4.7576E-02
520385.04	4258742.79	274102.0419	0.41932	0.26616	0.40616	0.28287	4.75E-02	9.84E-07	5.46E-07	9.54E-07	5.57E-07	4.7540E-02
520315.78	4258772.9	273086.3503	0.64383	0.33096	0.61843	0.35429	4.74E-02	1.51E-06	6.79E-07	1.45E-06	6.97E-07	4.7370E-02
520226.68	4258773.05	272257.0151	1.27559	0.50576	1.19673	0.54191	4.72E-02	2.99E-06	1.04E-06	2.81E-06	1.07E-06	4.7230E-02
520226.42	4258462.78	269761.4276	0.5941	1.23954	0.59577	1.40085	4.68E-02	1.39E-06	2.54E-06	1.40E-06	2.76E-06	4.6797E-02
520197.03	4258472.69	268126.0373	0.71572	1.70184	0.72647	1.94878	4.65E-02	1.68E-06	3.49E-06	1.71E-06	3.84E-06	4.6516E-02
520216.77	4258773.07	267204.2347	1.40914	0.53231	1.3158	0.57082	4.63E-02	3.31E-06	1.09E-06	3.09E-06	1.12E-06	4.6354E-02
520150.22	4258736.13	266751.1142	3.24743	0.96146	2.88296	1.00781	4.63E-02	7.62E-06	1.97E-06	6.77E-06	1.98E-06	4.6285E-02
520355.37	4258762.84	266747.0139	0.50227	0.28605	0.48521	0.30565	4.63E-02	1.18E-06	5.87E-07	1.14E-06	6.02E-07	4.6270E-02
520325.68	4258772.89	266699.392	0.6047	0.31669	0.58166	0.33898	4.63E-02	1.42E-06	6.50E-07	1.37E-06	6.67E-07	4.6262E-02
520343.92	4258453.14	266266.6656	0.35164	0.50334	0.35122	0.54809	4.62E-02	8.26E-07	1.03E-06	8.25E-07	1.08E-06	4.6187E-02
520402.59	4258473.33	266153.5945	0.2911	0.35503	0.28913	0.38244	4.62E-02	6.83E-07	7.28E-07	6.79E-07	7.53E-07	4.6166E-02
520375.16	4258752.8	265915.2296	0.44653	0.27068	0.43217	0.28827	4.61E-02	1.05E-06	5.55E-07	1.01E-06	5.67E-07	4.6125E-02
520392.83	4258463.3	265844.8651	0.29798	0.37658	0.29628	0.40661	4.61E-02	7.00E-07	7.72E-07	6.96E-07	8.00E-07	4.6113E-02
520216.63	4258462.75	264630.2358	0.62262	1.37672	0.62815	1.56159	4.59E-02	1.46E-06	2.82E-06	1.47E-06	3.07E-06	4.5908E-02
520187.06	4258763.12	263888.1242	1.93265	0.65366	1.77452	0.69983	4.58E-02	4.54E-06	1.34E-06	4.17E-06	1.38E-06	4.5782E-02
520353.71	4258453.18	262862.6688	0.33899	0.47476	0.33853	0.51597	4.56E-02	7.96E-07	9.74E-07	7.95E-07	1.02E-06	4.5596E-02
520114.16	4258700.13	261162.3457	7.24378	1.67766	6.08165	1.63611	4.53E-02	1.70E-05	3.44E-06	1.43E-05	3.22E-06	4.5335E-02
520187.24	4258472.66	260427.5878	0.75188	1.93561	0.76986	2.22636	4.52E-02	1.77E-06	3.97E-06	1.81E-06	4.38E-06	4.5182E-02
520335.58	4258772.87	259144.4665	0.56913	0.30342	0.54817	0.32464	4.49E-02	1.34E-06	6.22E-07	1.29E-06	6.39E-07	4.4951E-02
520206.87	4258773.08	259050.9688	1.55684	0.56011	1.44638	0.60083	4.49E-02	3.65E-06	1.15E-06	3.40E-06	1.18E-06	4.4941E-02
520363.49	4258453.21	258977.3742	0.32698	0.44862	0.32645	0.48664	4.49E-02	7.68E-07	9.20E-07	7.66E-07	9.58E-07	4.4920E-02
520206.85	4258462.72	258866.4044	0.65224	1.53977	0.6628	1.75299	4.49E-02	1.53E-06	3.16E-06	1.56E-06	3.45E-06	4.4909E-02
520087.12	4258664.6	258363.6032	12.74651	2.981	18.45586	2.64286	4.48E-02	2.99E-05	6.11E-06	4.33E-05	5.20E-06	4.4897E-02
520276.2	4258782.97	256676.296	0.85189	0.38539	0.81148	0.41149	4.45E-02	2.00E-06	7.90E-07	1.91E-06	8.10E-07	4.4525E-02
520141.73	4258732.63	256623.9795	3.83162	1.05025	3.35374	1.08578	4.45E-02	9.00E-06	2.15E-06	7.87E-06	2.14E-06	4.4531E-02
520266.3	4258782.98	256470.7656	0.91741	0.40324	0.87187	0.43061	4.45E-02	2.15E-06	8.27E-07	2.05E-06	8.48E-07	4.4490E-02
520286.1	4258782.95	255805.192	0.79317	0.36835	0.75714	0.39339	4.44E-02	1.86E-06	7.55E-07	1.78E-06	7.74E-07	4.4373E-02
520402.62	4258463.33	255598.8879	0.2879	0.35852	0.28618	0.38632	4.43E-02	6.76E-07	7.35E-07	6.72E-07	7.60E-07	4.4335E-02
520256.39	4258783	255383.1981	0.99169	0.42204	0.94	0.45097	4.43E-02	2.33E-06	8.66E-07	2.21E-06	8.88E-07	4.4301E-02
520296	4258782.94	254762.9701	0.74166	0.35294	0.70949	0.37661	4.42E-02	1.74E-06	7.23E-07	1.67E-06	7.41E-07	4.4192E-02
520373.28	4258453.24	254623.1671	0.31558	0.42463	0.31492	0.45975	4.42E-02	7.41E-07	8.71E-07	7.39E-07	9.05E-07	4.4166E-02
520246.49	4258783.02	253428.8549	1.07633	0.44189	1.01717	0.47267	4.40E-02	2.53E-06	9.06E-07	2.39E-06	9.30E-07	4.3963E-02
520097.12	4258683.15	253416.173	12.10931	2.26049	10.86067	2.07137	4.40E-02	2.84E-05	4.64E-06	2.55E-05	4.08E-06	4.4017E-02
520365.27	4258762.82	253285.2267	0.47519	0.27482	0.45935	0.29328	4.39E-02	1.12E-06	5.64E-07	1.08E-06	5.77E-07	4.3935E-02
520158.97	4258749.74	252598.3106	2.83966	0.83794	2.54412	0.88279	4.38E-02	6.67E-06	1.72E-06	5.97E-06	1.74E-06	4.3828E-02
520197.06	4258462.69	252291.6997	0.68262	1.73545	0.69883	1.98428	4.38E-02	1.60E-06	3.56E-06	1.64E-06	3.91E-06	4.3770E-02
520168.27	4258756.76	252093.1011	2.47285	0.75827	2.23646	0.8046	4.37E-02	5.81E-06	1.56E-06	5.25E-06	1.58E-06	4.3739E-02
520421.9	4258689.97	251744.1056	0.33274	0.25629	0.32273	0.27138	4.37E-02	7.81E-07	5.26E-07	7.58E-07	5.34E-07	4.3666E-02
520305.9	4258782.92	251702.0506	0.69403	0.3374	0.6652	0.36056	4.37E-02	1.63E-06	6.92E-07	1.56E-06	7.10E-07	4.3661E-02
520177.45	4258472.63	251409.8641	0.78793	2.22526	0.81346	2.56992	4.36E-02	1.85E-06	4.56E-06	1.91E-06	5.06E-06	4.3619E-02
520412.38	4258473.36	250663.1889	0.2812	0.33854	0.27923	0.36398	4.35E-02	6.60E-07	6.94E-07	6.56E-07	7.16E-07	4.3479E-02
520177.15	4258763.13	250529.6518	2.19726	0.69461	2.0017	0.74042	4.35E-02	5.16E-06	1.42E-06	4.70E-06	1.46E-06	4.3466E-02
520345.49	4258772.85	250493.5783	0.53688	0.2911	0.51768	0.31126	4.34E-02	1.26E-06	5.97E-07	1.22E-06	6.13E-07	4.3451E-02
520236.59	4258783.03	250375.0473	1.17258	0.46282	1.10432	0.4957	4.34E-02	2.75E-06	9.49E-07	2.59E-06	9.76E-07	4.3434E-02
520196.97	4258773.1	249691.0664	1.73257	0.59042	1.60063	0.63293	4.33E-02	4.07E-06	1.21E-06	3.76E-06	1.25E-06	4.3318E-02
520394.94	4258742.77	248131.206	0.39856	0.25623	0.38599	0.27189	4.30E-02	9.36E-07	5.26E-07	9.06E-07	5.35E-07	4.3040E-02
520226.69	4258783.05	247488.3872	1.2898	0.48642	1.20948	0.52142	4.29E-02	3.03E-06	9.98E-07	2.84E-06	1.03E-06	4.2934E-02
520315.8	4258782.9	247326.6836	0.6505	0.32281	0.62439	0.34507	4.29E-02	1.53E-06	6.62E-07	1.47E-06	6.79E-07	4.2902E-02
520416.03	4258714.03	245546.9875	0.35091	0.2519	0.34006	0.26619	4.26E-02	8.24E-07	5.17E-07	7.98E-07	5.24E-07	4.2592E-02
520409	4258726.94	245313.165	0.36732	0.25203	0.35587	0.2666	4.25E-02	8.62E-07	5.17E-07	8.35E-07	5.25E-07	4.2551E-02
520385.06	4258752.79	245159.6552	0.42313	0.26012	0.40956	0.27664	4.25E-02	9.93E-07	5.33E-07	9.62E-07	5.45E-07	4.2525E-02
520187.27	4258462.66	244788.8737	0.71282	1.97383	0.73481	2.26647	4.25E-02	1.67E-06	4.05E-06	1.73E-06	4.46E-06	4.2469E-02
520412.41	4258463.36	242978.2668	0.27828	0.34184	0.27654	0.36759	4.21E-02	6.53E-07	7.01E-07	6.49E-07	7.24E-07	4.2146E-02
520216.79	4258783.07	242787.2272	1.42308	0.51119	1.32805	0.54828	4.21E-02	3.34E-06	1.05E-06	3.12E-06	1.08E-06	4.2119E-02
520325.7	4258782.89	241450.8261	0.61084	0.30912	0.58709	0.33048	4.19E-02	1.43E-06	6.34E-07	1.38E-06	6.51E-07	4.1883E-02
520324.37	4258443.08	241223.2356	0.37195	0.57686	0.37164	0.62995	4.18E-02	8.73E-07	1.18E-06	8.72E-07	1.24E-06	4.1845E-02
520167.66	4258472.59	241140.7983	0.82249	2.58344	0.85457	3.00397	4.18E-02	1.93E-06	5.30E-06	2.01E-06	5.91E-06	4.1840E-02
520314.58	4258443.05	241009.1733	0.38607	0.61572	0.38544	0.67405	4.18E-02	9.06E-07	1.26E-06	9.05E-07	1.33E-06	4.1806E-02
520334.16	4258443.11	240904.8753	0.35857	0.54156	0.35845	0.59009	4.18E-02	8.42E-07	1.11E-06	8.42E-07	1.16E-06	4.1788E-02
520355.39	4258772.84	240272.4157	0.5072	0.27954	0.48948	0.29865	4.17E-02	1.19E-06	5.73E-07	1.15E-06	5.88E-07	4.1678E-02
520343.95	4258443.14	240008.361	0.34581	0.50959	0.34585	0.55425	4.16E-02	8.12E-07	1.05E-06	8.12E-07	1.09E-06	4.1632E-02
520187.07	4258773.12	239428.0909	1.94813	0.62463	1.78773	0.66779	4.15E-02	4.57E-06	1.28E-06	4.20E-06	1.31E-06	4.1539E-02
520295.01	4258442.99	239152.214	0.41672	0.70592	0.41535	0.77776	4.15E-02	9.78E-07	1.45E-06	9.75E-07	1.53E-06	4.1485E-02
520375.17	4258762.8	238062.0925	0.45019	0.26429	0.43534	0.28165	4.13E-02	1.06E-06	5.42E-07	1.02E-06	5.54E-07	4.1294E-02
520285.22	4258442.96	237575.2974	0.43336	0.75904	0.43185	0.83938	4.12E-02	1.02E-06	1.56E-06	1.01E-06	1.65E-06	4.1212E-02
520087.12	4258673.87	236446.3864	12.85658	2.6129	18.37158	2.32301	4.10E-02	3.02E-05	5.36E-06	4.31E-05	4.57E-06	4.1094E-02
520353.74	4258443.18	236268.6616	0.33357	0.4807	0.3338	0.5217	4.10E-02	7.83E-07	9.86E-07	7.84E-07	1.03E-06	4.0983E-02
520142.45	4258742.92	236238.9639	3.81046	0.98381	3.33999	1.01135	4.10E-02	8.95E-06	2.02E-06	7.84E-06	1.99E-06	4.0995E-02
520177.48	4258462.63	236179.818	0.74183	2.26684	0.76908	2.61455	4.10E-02	1.74E-06	4.65E-06	1.81E-06	5.15E-06	4.0978E-02
520206.89	4258783.08	235761.4634	1.5723	0.53741	1.45975	0.57633	4.09E-02	3.69E-06	1.10E-06	3.43E-06	1.13E-06	4.0901E-02
520275.43	4258442.93	235583.6796	0.45095	0.81889	0.44968	0.90908	4.09E-02	1.06E-06	1.68E-06	1.06E-06	1.79E-06	4.0866E-02
520335.6	4258782.87	234839.5472	0.57503	0.29643	0.55335	0.31687	4.07E-02	1.35E-06	6.08E-07	1.30E-06	6.24E-07	4.0736E-02
520103.97	4258699.66	233834.4791	9.93242	1.8214	8.39205	1.70369	4.06E-02	2.33E-05	3.74E-06	1.97E-05	3.35E-06	4.0608E-02
520266.31	4258792.98	233803.0397	0.92743	0.39044	0.88119	0.41683	4.06E-02	2.18E-06	8.01E-07	2.07E-06	8.21E-07	4.0558E-02
520363.53	4258443.21	233771.3798	0.32207	0.45387	0.32219	0.49182	4.05E-02	7.56E-07	9.31E-07	7.56E-07	9.68E-07	4.0550E-02
520276.21	4258792.97	233694.8542	0.86063	0.37373	0.81961	0.39873	4.05E-02	2.02E-06	7.66E-07	1.92E-06	7.85E-07	4.0539E-02
520265.64	4258442.9	233179.6908	0.46951	0.88695	0.46905	0.98842	4.04E-02	1.10E-06	1.82E-06	1.10E-06	1.95E-06	4.0450E-02
520286.11	4258792.95	232953.0811	0.80159	0.35789	0.76493	0.38178	4.04E-02	1.88E-06	7.34E-07	1.80E-06	7.52E-07	4.0410E-02
520403.39	4258739.27	232943.7265	0.38078	0.25008	0.36874	0.26497	4.04E-02	8.94E-07	5.13E-07	8.66E-07	5.22E-07	4.0406E-02

520148.08	4258472.53	214158.7477	0.87805	3.61933	0.92759	4.29585	3.71E-02	2.06E-06	7.42E-06	2.18E-06	8.46E-06	3.7165E-02
520431.9	4258690.02	214080.6618	0.31853	0.24697	0.30884	0.26121	3.71E-02	7.48E-07	5.07E-07	7.25E-07	5.14E-07	3.7134E-02
520402.68	4258443.33	214077.0715	0.28121	0.36553	0.2803	0.39405	3.71E-02	6.60E-07	7.50E-07	6.58E-07	7.76E-07	3.7134E-02
520266.33	4258802.98	213740.7791	0.93603	0.3777	0.88919	0.40336	3.71E-02	2.20E-06	7.75E-07	2.09E-06	7.94E-07	3.7078E-02
520431.95	4258473.42	213557.8253	0.26262	0.30869	0.26057	0.33076	3.70E-02	6.17E-07	6.33E-07	6.12E-07	6.51E-07	3.7043E-02
520276.23	4258802.97	213446.4269	0.86832	0.36209	0.82678	0.38626	3.70E-02	2.04E-06	7.43E-07	1.94E-06	7.60E-07	3.7027E-02
520285.25	4258432.96	213441.1795	0.42328	0.7668	0.42252	0.84945	3.70E-02	9.94E-07	1.57E-06	9.92E-07	1.67E-06	3.7026E-02
520335.62	4258792.87	213154.6843	0.57976	0.28938	0.55742	0.30897	3.70E-02	1.36E-06	5.93E-07	1.31E-06	6.08E-07	3.6975E-02
520353.77	4258433.18	212840.5526	0.32816	0.4865	0.32868	0.5273	3.69E-02	7.70E-07	9.98E-07	7.72E-07	1.04E-06	3.6920E-02
520256.43	4258803	212799.6083	1.01055	0.39372	0.95747	0.42108	3.69E-02	2.37E-06	8.07E-07	2.25E-06	8.29E-07	3.6915E-02
520286.13	4258802.95	212483.1326	0.80825	0.34726	0.77113	0.37019	3.69E-02	1.90E-06	7.12E-07	1.81E-06	7.29E-07	3.6859E-02
520296.03	4258802.94	211715.2387	0.75628	0.33358	0.72299	0.35547	3.67E-02	1.78E-06	6.84E-07	1.70E-06	7.00E-07	3.6726E-02
520275.46	4258432.93	211392.3176	0.43986	0.82738	0.43986	0.92014	3.67E-02	1.03E-06	1.70E-06	1.03E-06	1.81E-06	3.6671E-02
520246.53	4258803.02	211116.0914	1.09511	0.4107	1.03444	0.43987	3.66E-02	2.57E-06	8.42E-07	2.43E-06	8.66E-07	3.6624E-02
520158.16	4258769.39	210946.5181	2.9192	0.76407	2.61193	0.79631	3.66E-02	6.85E-06	1.57E-06	6.13E-06	1.57E-06	3.6604E-02
520363.56	4258433.21	210907.3024	0.31713	0.45922	0.31765	0.49697	3.66E-02	7.45E-07	9.42E-07	7.46E-07	9.78E-07	3.6584E-02
520114.24	4258724.43	210876.955	7.37375	1.3774	6.20592	1.31766	3.66E-02	1.73E-05	2.82E-06	1.46E-05	2.59E-06	3.6613E-02
520431.98	4258463.42	210554.9306	0.26019	0.31163	0.25838	0.33387	3.65E-02	6.11E-07	6.39E-07	6.07E-07	6.57E-07	3.6522E-02
520265.67	4258432.9	209118.5107	0.45712	0.8971	0.4587	1.00122	3.63E-02	1.07E-06	1.84E-06	1.08E-06	1.97E-06	3.6277E-02
520236.63	4258803.03	209053.606	1.1939	0.42946	1.12368	0.46047	3.63E-02	2.80E-06	8.81E-07	2.64E-06	9.06E-07	3.6267E-02
520177.19	4258783.13	209003.0659	2.23167	0.6347	2.03036	0.67263	3.63E-02	5.24E-06	1.30E-06	4.77E-06	1.32E-06	3.6263E-02
520305.93	4258802.92	208960.6583	0.70728	0.32002	0.67727	0.34104	3.62E-02	1.66E-06	6.56E-07	1.59E-06	6.71E-07	3.6248E-02
520403.08	4258721.11	208727.7454	0.34177	0.24207	0.33093	0.25552	3.62E-02	8.02E-07	4.96E-07	7.77E-07	5.03E-07	3.6205E-02
520206.91	4258442.72	208708.8656	0.59705	1.59306	0.61427	1.81164	3.62E-02	1.40E-06	3.27E-06	1.44E-06	3.57E-06	3.6209E-02
520197.01	4258793.1	208512.9188	1.76477	0.54344	1.62783	0.58119	3.62E-02	4.14E-06	1.11E-06	3.82E-06	1.14E-06	3.6176E-02
520373.35	4258433.24	207710.5792	0.30655	0.43428	0.30705	0.46927	3.60E-02	7.20E-07	8.91E-07	7.21E-07	9.24E-07	3.6030E-02
520365.3	4258782.82	207489.7631	0.48412	0.26279	0.46705	0.28042	3.60E-02	1.14E-06	5.39E-07	1.10E-06	5.52E-07	3.5991E-02
520226.73	4258803.05	206564.5714	1.31089	0.45032	1.22841	0.48309	3.58E-02	3.08E-06	9.24E-07	2.88E-06	9.51E-07	3.5836E-02
520255.88	4258432.87	206349.1248	0.47518	0.97679	0.4788	1.09379	3.58E-02	1.12E-06	2.00E-06	1.12E-06	2.15E-06	3.5797E-02
520345.52	4258792.85	206066.8463	0.54641	0.27788	0.52589	0.29664	3.57E-02	1.28E-06	5.70E-07	1.23E-06	5.84E-07	3.5745E-02
520093.83	4258699.33	205898.5203	13.79158	1.91017	12.67456	1.72941	3.57E-02	3.24E-05	3.92E-06	2.98E-05	3.40E-06	3.5782E-02
520412.47	4258443.36	204975.2615	0.2721	0.3481	0.27103	0.37458	3.56E-02	6.39E-07	7.14E-07	6.36E-07	7.37E-07	3.5555E-02
520149.06	4258765.63	204575.5117	3.3925	0.82859	3.00749	0.85155	3.55E-02	7.96E-06	1.70E-06	7.06E-06	1.68E-06	3.5501E-02
520315.83	4258802.9	203792.3235	0.66007	0.30613	0.63274	0.32637	3.53E-02	1.55E-06	6.28E-07	1.49E-06	6.42E-07	3.5351E-02
520216.82	4258803.07	203255.2472	1.44832	0.47297	1.35013	0.50718	3.53E-02	3.40E-06	9.70E-07	3.17E-06	9.98E-07	3.5262E-02
520394.97	4258762.77	203214.8005	0.40563	0.24514	0.39227	0.26045	3.52E-02	9.52E-07	5.03E-07	9.21E-07	5.13E-07	3.5250E-02
520246.09	4258432.84	203127.0727	0.49386	1.06829	0.50005	1.20013	3.52E-02	1.16E-06	2.19E-06	1.17E-06	2.36E-06	3.5238E-02
520197.12	4258442.69	202538.6745	0.61856	1.79595	0.63886	2.05024	3.51E-02	1.45E-06	3.68E-06	1.50E-06	4.04E-06	3.5140E-02
520148.11	4258462.53	200932.1458	0.80881	1.67784	0.8592	1.45665	3.48E-02	1.90E-06	7.54E-06	2.02E-06	8.58E-06	3.4871E-02
520187.11	4258793.12	200787.8364	1.98234	0.57412	1.81606	0.61108	3.48E-02	4.65E-06	1.18E-06	4.26E-06	1.20E-06	3.4837E-02
520385.09	4258772.79	200559.1487	0.43046	0.24868	0.41595	0.26476	3.48E-02	1.01E-06	5.10E-07	9.77E-07	5.21E-07	3.4789E-02
520392.92	4258433.3	200428.8146	0.287	0.3886	0.28681	0.41934	3.48E-02	6.74E-07	7.97E-07	6.73E-07	8.25E-07	3.4766E-02
520236.31	4258432.81	199462.4937	0.51298	1.17466	0.52217	1.32345	3.46E-02	1.20E-06	2.41E-06	1.23E-06	2.61E-06	3.4603E-02
520325.73	4258802.89	199273.7708	0.61991	0.29381	0.59498	0.31131	3.46E-02	1.46E-06	6.03E-07	1.40E-06	6.17E-07	3.4567E-02
520167.29	4258783.15	198863.2449	2.5697	0.67594	2.31665	0.70867	3.45E-02	6.03E-06	1.39E-06	5.44E-06	1.40E-06	3.4506E-02
520139.95	4258761.88	198290.2813	4.05938	0.9026	3.54853	0.91046	3.44E-02	9.53E-06	1.85E-06	8.33E-06	1.79E-06	3.4414E-02
520355.42	4258792.84	198013.5413	0.51587	0.26707	0.4969	0.28501	3.43E-02	1.21E-06	5.48E-07	1.17E-06	5.61E-07	3.4348E-02
520206.92	4258803.08	197749.7573	1.59789	0.49629	1.4819	0.53155	3.43E-02	3.75E-06	3.48E-06	3.48E-06	1.05E-06	3.4308E-02
520138.29	4258472.5	197255.1718	0.8949	4.40995	0.96146	5.28675	3.42E-02	2.10E-06	9.04E-06	2.26E-06	1.04E-05	3.4237E-02
520324.43	4258423.08	196417.2477	0.35814	0.58896	0.35734	0.6438	3.41E-02	8.41E-07	1.21E-06	8.39E-07	1.27E-06	3.4072E-02
520334.22	4258423.11	196290.9018	0.3459	0.5531	0.34533	0.60277	3.40E-02	8.12E-07	1.13E-06	8.11E-07	1.19E-06	3.4050E-02
520266.35	4258812.98	196118.2727	0.94412	0.36537	0.8967	0.39043	3.40E-02	2.22E-06	7.49E-07	2.11E-06	7.69E-07	3.4022E-02
520314.65	4258423.05	196098.8963	0.37096	0.62869	0.3701	0.68944	3.40E-02	8.71E-07	1.29E-06	8.69E-07	1.36E-06	3.4017E-02
520276.25	4258812.97	196035.8747	0.87684	0.35098	0.83472	0.3745	3.40E-02	2.06E-06	7.20E-07	1.96E-06	7.37E-07	3.4005E-02
520344.01	4258423.14	195698.1136	0.33417	0.5211	0.334	0.56615	3.39E-02	7.85E-07	1.07E-06	7.84E-07	1.11E-06	3.3947E-02
520375.21	4258782.8	195572.2458	0.45779	0.25264	0.44185	0.26935	3.39E-02	1.07E-06	5.18E-07	1.04E-06	5.30E-07	3.3924E-02
520187.33	4258442.66	195557.629	0.63883	2.04026	0.66172	2.33996	3.39E-02	1.50E-06	4.18E-06	1.55E-06	4.61E-06	3.3930E-02
520256.44	4258813	195392.1453	1.01941	0.38046	0.96562	0.40718	3.39E-02	2.39E-06	7.80E-07	2.27E-06	8.02E-07	3.3896E-02
520226.52	4258432.78	195301.4102	0.53233	1.29889	0.54473	1.46757	3.39E-02	1.25E-06	2.66E-06	1.28E-06	2.89E-06	3.3882E-02
520286.15	4258812.95	195224.8841	0.81657	0.33721	0.7789	0.35942	3.39E-02	1.92E-06	6.92E-07	1.83E-06	7.08E-07	3.3866E-02
520158.43	4258779.5	194741.8635	2.93539	0.72792	2.6243	0.75473	3.38E-02	6.89E-06	1.49E-06	6.16E-06	1.49E-06	3.3793E-02
520422.26	4258443.39	194401.6065	0.2634	0.33214	0.26221	0.3567	3.37E-02	6.18E-07	6.81E-07	6.16E-07	7.02E-07	3.3721E-02
520295.07	4258422.99	194161.071	0.39858	0.72086	0.39837	0.7965	3.37E-02	9.36E-07	1.48E-06	9.35E-07	1.57E-06	3.3681E-02
520296.05	4258812.94	194111.846	0.76305	0.32425	0.72932	0.34532	3.37E-02	1.79E-06	6.65E-07	1.71E-06	6.80E-07	3.3673E-02
520246.54	4258813.02	194066.3475	1.10517	0.39663	1.04359	0.42505	3.37E-02	2.59E-06	8.13E-07	2.45E-06	8.37E-07	3.3667E-02
520335.64	4258802.87	193919.9266	0.58328	0.28217	0.56043	0.30093	3.36E-02	1.37E-06	5.79E-07	1.32E-06	5.92E-07	3.3638E-02
520402.71	4258433.33	193422.1501	0.27762	0.36874	0.27722	0.39741	3.35E-02	6.52E-07	7.56E-07	6.51E-07	7.82E-07	3.3555E-02
520353.8	4258423.18	192785.843	0.32278	0.49193	0.32321	0.53277	3.34E-02	7.58E-07	1.01E-06	7.59E-07	1.05E-06	3.3441E-02
520285.28	4258422.96	192546.662	0.41332	0.77507	0.41402	0.85974	3.34E-02	9.70E-07	1.59E-06	9.72E-07	1.69E-06	3.3402E-02
520441.74	4258473.45	192412.8908	0.25395	0.29529	0.25184	0.31591	3.34E-02	5.96E-07	6.06E-07	5.91E-07	6.22E-07	3.3376E-02
520236.64	4258813.03	192406.3744	1.20554	0.41461	1.13412	0.4447	3.34E-02	2.83E-06	8.50E-07	2.66E-06	8.75E-07	3.3379E-02
520177.2	4258793.13	192359.1079	2.25003	0.60857	2.04536	0.64265	3.34E-02	5.28E-06	1.25E-06	4.80E-06	1.27E-06	3.3376E-02
520197.02	4258803.1	191554.9598	1.77848	0.52204	1.63785	0.55739	3.32E-02	4.17E-06	1.07E-06	3.85E-06	1.10E-06	3.3235E-02
520305.95	4258812.92	191547.2	0.71344	0.31148	0.68294	0.33162	3.32E-02	1.67E-06	6.39E-07	1.60E-06	6.53E-07	3.3228E-02
520363.59	4258423.21	191338.3338	0.31222	0.46434	0.31276	0.50201	3.32E-02	7.33E-07	9.52E-07	7.34E-07	9.88E-07	3.3190E-02
520216.73	4258432.75	190597.7787	0.55157	1.44442	0.56698	1.63709	3.31E-02	1.29E-06	2.96E-06	1.33E-06	3.22E-06	3.3067E-02
520275.49	4258422.93	190546.8685	0.42873	0.83705	0.43084	0.9318	3.30E-02	1.01E-06	1.72E-06	1.01E-06	1.83E-06	3.3055E-02
520226.74	4258813.05	190151.7661	1.32287	0.43432	1.23901	0.46592	3.30E-02	3.11E-06	8.91E-07	2.91E-06	9.17E-07	3.2989E-02
520149.58	4258775.84	189356.0931	3.38696	0.78499	3.00326	0.80261	3.28E-02	7.95E-06	1.61E-06	7.05E-06	1.58E-06	3.2861E-02
520436.01	4258704.14	189056.4673	0.31698	0.23785	0.30691	0.251	3.28E-02	7.44E-07	4.88E-07	7.21E-07	4.94E-07	3.2793E-02
520365.32	4258792.82	188808.2097	0.48746	0.2568	0.46983	0.27391	3.27E-02	1.14E-06	5.27E-07	1.10E-06	5.39E-07	3.2751E-02
520373.38	4258423.24	188580.9163	0.30203	0.43911	0.3027	0.47394	3.27E-02	7.09E-07	9.01E-07	7.11E-07	9.33E-07	3.2712E-02
520265.7	4258422.9	188322.7336	0.44481	0.90838	0.44882	1.01438	3.27E-02	1.04E-06	1.86E-06	1.05E-06	2.00E-06	3.2670E-02
520177.54	4258442.63	187623.7884	0.65717	2.33796	0.68318	2.69635	3.25E-02	1.54E-06	4.79E-06	1.60E-06	5.31E-06	3.2556E-02
520345.54	4258802.85	187559.4304	0.54951	0.27108	0.52846	0.28911	3.25E-02	1.29E-06	5.56E-07	1.24E-06	5.69E-07	3.2535E-02
520216.84	4258813.07	187056.5774	1.4594	0.45568	1.35981	0.48841	3.24E-02	3.43E-06	9.35E-07	3.19E-06	9.61E-07	3.2453E-02
520315.85	4258812.9	186296.7234	0.66429	0.2979	0.63655	0.31725	3.23E-02	1.56E-06	6.11E-07	1.49E-06	6.25E-07	3.2317E-02
520255.91	4258422.87	185610.8294	0.46134	0.98995	0.46765	1.10865	3.22E-02	1.08E-06	2.03E-06	1.10E-06	2.18E-06	3.2200E-02
520412.5	4258433.36	185599.7911	0.26877	0.3509	0.26818	0.37761	3.22E-02	6.31E-07	7.20E-07	6.30E-07	7.43E-07	3.2194E-02
520107.24	4258731.68	185526.4428	9.09798	1.35343	7.68892	1.26197	3.22E-02	2.14E-05	2.78E-06	1.81E-05	2.48E-06	3.2225E-02
520394.99	4258772.77	185488.7999	0.40896	0.23983	0.39515	0.25495	3.22E-02	9.60E-07	4.92E-07	9.28E-07	5.02E-07	3.2175E-02
520206.94	4258432.72	185320.941	0.57034	1.61671	0.58823	1.83868	3.21E-02	1.34E-06	3.32E-06	1.38E-06	3.62E-06	3.2153E-02
520138.33	4258462.5	184931.8488	0.81745	4.47154	0.88319	5.34522	3.21E-02	1.92E-06	9.17E-06	2.07E-06	1.05E-05	3.2090E-02
520187.12	4258803.12	184864.8822	1.99526	0.55126	1.82697	0.5852	3.21E-02	4.68E-06	1.13E-06	4.29E-06	1.15E-06	3.2075E-02
520140.73	4258772.19	184062.2678	4.01535	0.85006	3.51661	0.85345	3.19E-02	9.43E-06	1.74E-06	8.26E-06	1.68E-06	3.1946E-02
520167.3	4258793.15	183624.4795	2.59056	0.64743	2.3335	0.67564	3.18E-02	6.08E-06	1.33E-06	5.48E-06	1.33E-06	3.1863E-02
520411.07	4258756.11	183390.5332	0.37236	0.23475	0.36004	0.24865	3.18E-02	8.74E-07	4.81E-07	8.45E-07	4.89E-07	3.1811E-02
520385.11	4258782.79	183112.6465	0.43397	0.24332	0.41893	0.25912	3.18E-02	1.02E-06	4.99E-07	9.84E-07	5.10E-07	3.1763E-02
520428.73	4258728.78	183090.0379	0.33535	0.23381	0.32447	0.2466	3.18E-02	7.87E-07	4.80E-07	7.62E-07	4.85E-07	3.1759E-02
520246.13	4258422.84	182472.2597	0.47819	1.08341	0.48707	1.21672	3.16E-02	1.12E-06	2.22E-06	1.14E-06	2.40E-06	3.1656E-02
520206.94	4258813.08	182365.2289	1.61136	0.47811	1.49342	0.51146	3.16E-02	3.78E-06	9.81E-07	3.51E-06	1.01E-06	3.1640E-02
520325.75	4258812.89	182321.7009	0.62409	0.28635	0.59869	0.30498	3.16E-02	1.47E-06	5.87E-07	1.41E-06	6.00E-07	3.1627E-02
520392.95	4258423.3	182104.9377	0.2832	0.39288	0.28343	0.42344	3.16E-02	6.65E-07	8.06E-07	6.65E-07	8.34E-07	3.1588E-02
520441.9	4258690.08	182084.2742	0.30469	0.23783	0.29524	0.25126	3.16E-02	7.15E-07	4.88E-07	6.93E-07	4.95E-07	3.1584E-02
520432.05	4258443.42	181597.4737	0.25502	0.31715	0.25371	0.33999	3.15E-02	5.99E-07	6.50E-07	5.96E-07	6.69E-07	3.1500E-02
520121.74	4258754.36	180686.7276	6.0718	1.06469	5.19645	1.02563	3.13E-02	1.43E-05	2.18E-06	1.22E-05	2.02E-06	3.1370E-02
520266.36	4258822.98	180554.3231	0.95179	0.35353	0.90379	0.37807	3.13E-02	2.23E-06	7.25E-07	2.12E-06	7.44E-07	3.1322E-02
520276.26	4258822.97	180362.9385	0.88393	0.33997	0.84131	0.36299	3.13E-02	2.08E-06	6.97E-07	1.98E-06	7.15E-07	3.1289E-02
520355.44	4258802.84	180360.7595	0.51855	0.26062	0.49906	0.27791	3.13E-02	1.22E-06	5.35E-07	1.17E-06	5.47E-07	3.1286E-02
520158.65	4258789.58	180244.5667	2.9486	0.69461	2.63478	0.71656	3.13E-02	6.92E-06	1.42E-06	6.19E-06	1.41E-06	3.1279E-02
520256.46	4258823	180052.9254	1.02791	0.36787	0.9734	0.39397	3.12E-02	2.41E-06	7.54E-07	2.29E-06	7.76E-07	3.1236E-02
520286.16	4258822.95	179581.7543	0.82329	0.32711	0.78517	0.34875	3.11E-02	1.93E-06	6.71E-07	1.84E-06	6.87E-07	3.1153E-02
520197.15	4258432.69	179375.9124	0.58818	1.82128	0.60795	2.08036	3.11E-02	1.38E-06	3.74E-06	1.43E-06	4.10E-06	3.1123E-02
520246.56	4258823.02	178911.4446	1.11408	0.38319	1.05167	0.41085	3.10E-02	2.62E-06	7.86E-07	2.47E-06	8.09E-07	3.1038E-02
520236.34	4258422.81	178899.4429	0.49521	1.19195	0.50678	1.34212	3.10E-02	1.16E-06	2.44E-06	1.19E-06	2.64E-06	3.1037E-02
520375.22	4258792.8	178707.6055	0.46125	0.24713	0.44474	0.26342	3.10E-02	1.08E-06	5.07E-07	1.04E-06	5.19E-07	3.0999E-02
520324.47	4258413.08	178558.975	0.35132	0.59455	0.35068	0.65067	3.10E-02	8.25E-07	1.22E-06	8.23E-07	1.28E-06	3.0974E-02
520167.75	4258442.59	178540.1828	0.67267	2.70649	0.70409	3.14241	3.10E-02	1.58E-06	5.55E-06	1.65E-06	6.19E-06	3.0984E-02
520334.25	4258413.11	178513.645	0.33964	0.55841	0.33896	0.60909	3.10E-02	7.97E-07	1.15E-06	7.96E-07	1.20E-06	3.0966E-02
520296.06	4258822.94	178423.8032	0.76924	0.31493	0.73501	0.33537	3.09E-02	1.81E-06	6.46E-07	1.73E-06	6.60E-07	3.0952E-02
520314.68	4258413.05	178189.4228	0.36353	0.6349	0.36323	0.69712	3.09E-02	8.53E-07	1.30E-06	8.53E-07	1.37E-06	3.0911E-02
520344.04	4258413.14	178031.8951	0.32842	0.52604	0.32797	0.57184	3.09E-02	7.71E-07	1.08E-06	7.70E-07	1.13E-06	3.0883E-02
520177.22	4258803.13	177491.675	2.26229	0.58368	2.05577	0.61415	3.08E-02	5.31E-06	1.20E-06	4.83E-06	1.21E-06	3.0798E-02
520335.65	4258812.87	177422.0426	0.58895	0.2752	0.56361	0.29315	3.08E-02	1.38E-06	5.64E-07	1.32E-06	5.77E-07	3.0777E-02
520236.66	4258823.03	177393.4506	1.21438	0.40017	1.14205	0.42932	3.08E-02	2.85E-06	8.21E-07	2.68E-06	8.45E-07	3.0775E-02
520128.51	4258472.47	177073.1248	0.89933	5.50615	0.98413	6.65546	3.07E-02	2.11E-06	1.13E-05	2.31E-06	1.31E-05	3.0741E-02
520197.04	4258813.1	177018.7617	1.79251	0.50297	1.65129	0.53586	3.07E-02	4.21E-06	1.03E-06	3.88E-06	1.05E-06	3.0713E-02
520422.29	4258433.39	176898.9115	0.26043	0.3349	0.25967	0.3594	3.07E-02	6.11E-07	6.87E-07	6.10E-07	7.08E-07	3.0685E-02
520295.1	4258412.99	176221.1654	0.38967	0.72871	0.39092	0.80597	3.06E-02	9.15E-07	1.49E-06	9.18E-07	1.59E-06	3.0570E-02
520305.97	4258822.92	176139.1127	0.71918	0.30297	0.6882	0.32239	3.06E-02	1.69E-06	6.21E-07	1.62E-06	6.35E-07	3.0555E-02
520402.74	4258423.33	176057.6708	0.27412	0.37259	0.2742	0.40118	3.05E-02	6.44E-07	7.64E-07	6.44E-07	7.90E-07	3.0539E-02
520149.99	4258786	175979.8141	3.3971	0.74655	3.00982	0.75915	3.05E-02	7.98E-06	1.53E-06	7.07E-06	1.49E-06	3.0541E-02
520353.83	4258413.18	175928.4883	0.31752	0.49677	0.31759	0.5381	3.05E-02	7.45E-07	1.02E-06	7.46E-07	1.06E-06	3.0518E-02
520226.76	4258823.05	175469.4524	1.33266	0.41956	1.24767	0.44949	3.04E-02	3.13E-06	8.59E-07	2.93E-06	8.85E-07	3.0442E-02
520226.55	4258422.78	174863.0099	0.51212	1.31832	0.5262	1.48842	3.03E-02	1.20E-06	2.70E-06	1.24E-06	2.93E-06	3.0337E-02
520448.95	4258466.52	174759.6949	0.24639	0.28787	0.2444	0.30754	3.03E-02	5.78E-07	5.90E-07	5.74E-07	6.05E-07	3.0314E-02
520285.31	4258412.96	174654.1498	0.4035	0.78409	0.40608	0.87038	3.03E-02	9.47E-07	1.61E-06	9.53E-07	1.71E-06	3.0298E-02
520363.62	4258413.21	174273.3874	0.30729	0.46916	0.30762	0.50697	3.02E-02	7.21E-07	9.62E-07	7.22E-07	9.98E-07	3.0230E-02
520216.86	4258823.07	172748.7269	1.46987	0.43952	1.36893	0.47074	3.00E-02	3.45E-06	9.01E-07	3.21E-06	9.27E-07	2.9971E-02
520275.52	4258412.93	172748.4598	0.41784	0.84773	0.42215	0.94393	3.00E-02	9.81E-07	1.74E-06	9.91E-07	1.86E-06	2.9968E-02
520187.36	4258432.66	172682.1728	0.60461	2.0672	0.62643	2.3736	3.00E-02	1.42E-06	4.24E-06	1.47E-06	4.67E-06	2.9963E-02
520365.34	4258802.82	172275.3653	0.48991	0.25067	0.47175	0.26722	2.99E-02	1.15E-06	5.14E-07	1.11E-06	5.26E-07	2.9884E-02
520373.41	4258413.24	172051.1507	0.29751	0.44371	0.29805	0.47851	2.98E-02	6.98E-07	9.10E-07	7.00E-07	9.42E-07	2.9845E-02
520345.55	4258812.85	171701.9901	0.55278	0.26454	0.53123	0.28181	2.98E-02	1.30E-06	5.43E-07	1.25E-06	5.55E-07	2.9785E-02
520141.34	4258782.43	171316.7144	3.99191	0.80372	3.499	0.80306	2.97E-02	9.37E-06	1.65E-06	8.21E-06	1.58E-06	2.9735E-02
520315.87	4258822.9	171206.8967	0.66902	0.29001	0.64089	0.30857	2.97E-02	1.57E-06	5.95E-07	1.50E-06	6.07E-07	2.9699E-02
520187.14	4258813.12	171038.6619	2.0109	0.53058	1.83994	0.5615	2.97E-02	4.72E-06	1.09E-06	4.32E-06	1.11E-06	2.9677E-02
520112.64	4258750.6	170812.8866	7.73874	1.14697	6.58766	1.0782	2.96E-02	1.82E-05	2.35E-06	1.55E-05	2.12E-06

520226.78	4258833.05	162372.7783	1.34136	0.40467	1.25535	0.43391	2.82E-02	3.15E-06	8.30E-07	2.95E-06	8.54E-07	2.8171E-02
520305.98	4258832.92	162337.9309	0.72446	0.29454	0.69304	0.31342	2.82E-02	1.70E-06	6.04E-07	1.63E-06	6.17E-07	2.8161E-02
520427.16	4258749.44	162079.8507	0.34395	0.22567	0.3324	0.23827	2.81E-02	8.07E-07	4.63E-07	7.80E-07	4.69E-07	2.8115E-02
520422.32	4258423.39	161721.2167	0.2574	0.33785	0.25712	0.36279	2.80E-02	6.04E-07	6.93E-07	6.04E-07	7.14E-07	2.8052E-02
520353.86	4258403.18	161425.883	0.31233	0.50109	0.31211	0.54328	2.80E-02	7.33E-07	1.03E-06	7.33E-07	1.07E-06	2.8002E-02
520236.37	4258412.81	161287.0097	0.4776	1.20912	0.49059	1.36027	2.80E-02	1.12E-06	2.48E-06	1.15E-06	2.68E-06	2.7982E-02
520447.78	4258699.98	161212.7576	0.2996	0.22936	0.28994	0.24187	2.80E-02	7.03E-07	4.70E-07	6.81E-07	4.76E-07	2.7964E-02
520114.17	4258761.23	161131.605	7.43267	1.06019	6.346	0.99672	2.79E-02	1.74E-05	2.17E-06	1.49E-05	1.96E-06	2.7984E-02
520402.77	4258413.33	161116.7456	0.2706	0.37655	0.27097	0.40492	2.79E-02	6.35E-07	7.72E-07	6.36E-07	7.97E-07	2.7948E-02
520295.13	4258402.99	160729.2521	0.33808	0.73683	0.33881	0.8154	2.79E-02	8.94E-07	1.51E-06	9.01E-07	1.61E-06	2.7883E-02
520216.87	4258833.07	160163.0211	1.48145	0.4246	1.37893	0.45427	2.78E-02	3.48E-06	8.71E-07	3.24E-06	8.94E-07	2.7788E-02
520141.83	4258792.63	159775.9844	3.97828	0.7621	3.48837	0.75788	2.77E-02	9.34E-06	1.56E-06	8.19E-06	1.49E-06	2.7733E-02
520197.18	4258422.69	159541.8069	0.55917	1.84696	0.57814	2.10875	2.77E-02	1.31E-06	3.79E-06	1.36E-06	4.15E-06	2.7682E-02
520363.65	4258403.21	159531.3285	0.30239	0.47358	0.30246	0.51182	2.77E-02	7.10E-07	9.71E-07	7.10E-07	1.01E-06	2.7673E-02
520285.34	4258402.96	159193.7486	0.39371	0.79378	0.39828	0.88119	2.76E-02	9.24E-07	1.63E-06	9.35E-07	1.73E-06	2.7617E-02
520124.03	4258775.29	159146.0857	5.7937	0.92604	4.98121	0.88817	2.76E-02	1.36E-05	1.90E-06	1.17E-05	1.75E-06	2.7632E-02
520436.03	4258735.77	158942.7222	0.32625	0.22491	0.31536	0.23699	2.76E-02	7.66E-07	4.61E-07	7.40E-07	4.67E-07	2.7570E-02
520187.16	4258823.12	158731.8014	2.02555	0.51127	1.85211	0.53929	2.75E-02	4.76E-06	1.05E-06	4.35E-06	1.06E-06	2.7543E-02
520365.35	4258812.82	158366.3472	0.49307	0.24513	0.47438	0.26106	2.75E-02	1.16E-06	5.03E-07	1.11E-06	5.14E-07	2.7471E-02
520315.88	4258832.9	158232.7206	0.67475	0.28265	0.64622	0.3006	2.74E-02	1.58E-06	5.82E-07	1.52E-06	5.92E-07	2.7449E-02
520167.34	4258813.15	158102.953	2.62789	0.59619	2.36368	0.61634	2.74E-02	6.17E-06	1.22E-06	5.55E-06	1.21E-06	2.7436E-02
520345.57	4258822.85	157987.8639	0.55628	0.25831	0.53427	0.27483	2.74E-02	1.31E-06	5.30E-07	1.25E-06	5.41E-07	2.7406E-02
520373.44	4258403.24	157685.0845	0.29299	0.44797	0.29326	0.483	2.73E-02	6.88E-07	9.19E-07	6.96E-07	9.51E-07	2.7353E-02
520226.58	4258412.78	157379.4303	0.49225	1.33715	0.50691	1.50844	2.73E-02	1.16E-06	2.74E-06	1.19E-06	2.97E-06	2.7305E-02
520275.55	4258402.93	157313.0647	0.40691	0.85371	0.4133	0.95587	2.73E-02	9.55E-07	1.76E-06	9.70E-07	1.88E-06	2.7291E-02
520451.31	4258691.54	157296.8495	0.29278	0.22925	0.28349	0.24191	2.73E-02	6.87E-07	4.70E-07	6.66E-07	4.76E-07	2.7285E-02
520410.65	4258776.29	156891.8701	0.37934	0.22539	0.36622	0.23904	2.72E-02	8.91E-07	4.62E-07	8.60E-07	4.71E-07	2.7215E-02
520395.02	4258792.77	156600.8931	0.41499	0.22968	0.4002	0.24431	2.72E-02	9.74E-07	4.71E-07	9.40E-07	4.81E-07	2.7165E-02
520167.78	4258432.59	156542.6314	0.63036	2.73836	0.66219	3.1838	2.72E-02	1.48E-06	5.62E-06	1.55E-06	6.27E-06	2.7167E-02
520206.97	4258833.08	156386.236	1.63337	0.44502	1.51231	0.47449	2.71E-02	3.83E-06	9.13E-07	3.55E-06	9.34E-07	2.7134E-02
520158.97	4258809.7	155740.5579	2.97708	0.63577	2.65712	0.64928	2.70E-02	6.99E-06	1.30E-06	6.24E-06	1.28E-06	2.7028E-02
520412.56	4258413.36	155285.7442	0.26227	0.35794	0.26255	0.38448	2.69E-02	6.16E-07	7.34E-07	6.16E-07	7.57E-07	2.6936E-02
520266.4	4258842.98	155169.1058	0.96982	0.33221	0.92032	0.3557	2.69E-02	2.28E-06	6.81E-07	2.16E-06	7.00E-07	2.6919E-02
520265.76	4258402.9	155076.7948	0.42032	0.93265	0.42866	1.04078	2.69E-02	9.87E-07	1.91E-06	1.01E-06	2.05E-06	2.6903E-02
520256.49	4258843	155005.8279	1.0485	0.34551	0.99208	0.37032	2.69E-02	2.46E-06	7.09E-07	2.33E-06	7.29E-07	2.6891E-02
520325.78	4258832.89	154878.9495	0.6335	0.2723	0.60727	0.28947	2.69E-02	1.49E-06	5.58E-07	1.43E-06	5.70E-07	2.6867E-02
520276.3	4258842.97	154621.7359	0.89926	0.31966	0.85547	0.34181	2.68E-02	2.11E-06	6.56E-07	2.01E-06	6.73E-07	2.6824E-02
520385.14	4258802.79	154372.2649	0.4398	0.23287	0.42371	0.24791	2.68E-02	1.03E-06	4.78E-07	9.95E-07	4.88E-07	2.6778E-02
520246.59	4258843.02	154194.1161	1.13672	0.35969	1.07197	0.38576	2.67E-02	2.67E-06	7.38E-07	2.52E-06	7.59E-07	2.6751E-02
520286.2	4258842.95	153511.0574	0.83603	0.30785	0.797	0.32868	2.66E-02	1.96E-06	6.31E-07	1.87E-06	6.47E-07	2.6631E-02
520187.39	4258422.66	153131.1284	0.57229	2.09389	0.59361	2.40414	2.66E-02	1.34E-06	4.29E-06	1.39E-06	4.73E-06	2.6572E-02
520216.79	4258412.75	153005.3456	0.50633	1.48665	0.52215	1.68252	2.65E-02	1.19E-06	3.05E-06	1.23E-06	3.31E-06	2.6547E-02
520177.25	4258823.13	152950.1348	2.2935	0.54014	2.08145	0.56381	2.65E-02	5.38E-06	1.11E-06	4.89E-06	1.11E-06	2.6541E-02
520432.11	4258423.42	152715.0051	0.24953	0.32239	0.24904	0.34568	2.65E-02	5.86E-07	6.61E-07	5.85E-07	6.80E-07	2.6490E-02
520393.02	4258403.3	152650.5683	0.27549	0.40122	0.27581	0.43145	2.65E-02	6.47E-07	8.23E-07	6.48E-07	8.49E-07	2.6480E-02
520150.6	4258806.24	152594.4842	3.40298	0.67815	3.01447	0.68275	2.65E-02	7.99E-06	1.39E-06	7.08E-06	1.34E-06	2.6485E-02
520118.72	4258472.44	152517.7663	0.88627	7.08298	0.98015	8.6398	2.65E-02	2.08E-06	1.45E-05	2.30E-06	1.70E-05	2.6489E-02
520255.98	4258402.87	152479.5048	0.43378	1.01708	0.44409	1.13767	2.64E-02	1.02E-06	2.09E-06	1.04E-06	2.24E-06	2.6453E-02
520105.32	4258757.57	152319.2289	9.64774	1.12318	8.28691	1.03584	2.64E-02	2.26E-05	2.30E-06	1.95E-05	2.04E-06	2.6466E-02
520355.47	4258822.84	152261.0484	0.5247	0.24869	0.50422	0.26459	2.64E-02	1.23E-06	5.10E-07	1.18E-06	5.21E-07	2.6412E-02
520296.1	4258842.93	152128.5715	0.78016	0.29684	0.74504	0.31643	2.64E-02	1.83E-06	6.09E-07	1.75E-06	6.23E-07	2.6391E-02
520197.07	4258833.1	152076.1735	1.81341	0.46736	1.66914	0.49548	2.64E-02	4.26E-06	9.59E-07	3.92E-06	9.75E-07	2.6387E-02
520115.37	4258771.71	151797.9818	1.19456	0.98609	0.16503	0.92653	2.63E-02	1.69E-05	2.02E-06	1.45E-05	1.82E-06	2.6364E-02
520335.69	4258832.87	150912.5228	0.59563	0.2623	0.5714	0.2788	2.62E-02	1.40E-06	5.38E-07	1.34E-06	5.49E-07	2.6179E-02
520375.26	4258812.8	150745.3246	0.46671	0.23626	0.44915	0.25151	2.61E-02	1.10E-06	4.85E-07	1.05E-06	4.95E-07	2.6149E-02
520403.63	4258789.21	150703.0679	0.39625	0.22455	0.38219	0.23857	2.61E-02	9.30E-07	4.61E-07	8.97E-07	4.70E-07	2.6142E-02
520306	4258842.92	150059.4357	0.7292	0.28624	0.69737	0.30469	2.60E-02	1.71E-06	5.87E-07	1.64E-06	6.00E-07	2.6032E-02
520334.32	4258393.11	149836.3786	0.32734	0.56833	0.32764	0.6214	2.60E-02	7.68E-07	1.17E-06	7.69E-07	1.22E-06	2.5992E-02
520324.53	4258393.08	149731.3687	0.33795	0.60557	0.33899	0.66426	2.60E-02	7.93E-07	1.24E-06	7.96E-07	1.31E-06	2.5974E-02
520344.1	4258393.14	149561.6051	0.3171	0.53508	0.31699	0.583	2.59E-02	7.44E-07	1.10E-06	7.44E-07	1.15E-06	2.5945E-02
520246.19	4258402.84	149510.9677	0.44716	1.11435	0.45927	1.24924	2.59E-02	1.05E-06	2.29E-06	1.08E-06	2.46E-06	2.5939E-02
520124.83	4258785.61	149407.023	5.70462	0.86974	4.91249	0.83206	2.59E-02	1.34E-05	1.78E-06	1.15E-05	1.64E-06	2.5942E-02
520314.74	4258393.05	149259.6493	0.34894	0.64708	0.351	0.71199	2.59E-02	8.19E-07	1.33E-06	8.24E-07	1.40E-06	2.5893E-02
520422.35	4258413.39	148739.318	0.25437	0.34109	0.25452	0.36593	2.58E-02	5.97E-07	7.00E-07	5.98E-07	7.20E-07	2.5850E-02
520353.89	4258393.18	148320.4757	0.3071	0.50536	0.307	0.54844	2.57E-02	7.21E-07	1.04E-06	7.21E-07	1.08E-06	2.5729E-02
520402.81	4258403.33	148209.2501	0.26704	0.38042	0.26744	0.40858	2.57E-02	6.27E-07	7.80E-07	6.28E-07	8.04E-07	2.5709E-02
520207	4258412.72	148124.6982	0.51959	1.66261	0.53638	1.88887	2.57E-02	1.22E-06	3.41E-06	1.26E-06	3.72E-06	2.5701E-02
520089.13	4258736.23	147759.5812	14.58609	1.353	16.51823	1.22199	2.56E-02	3.42E-05	2.77E-06	3.88E-05	2.41E-06	2.5706E-02
520187.17	4258833.12	147742.7018	2.04028	0.49331	1.86429	0.51852	2.56E-02	4.79E-06	1.01E-06	4.38E-06	1.02E-06	2.5636E-02
520295.16	4258392.99	147251.6963	0.37398	0.74494	0.37672	0.82458	2.55E-02	8.73E-07	1.53E-06	8.84E-07	1.62E-06	2.5545E-02
520167.35	4258823.15	147232.621	2.64254	0.57292	2.37578	0.58956	2.55E-02	6.20E-06	1.18E-06	5.58E-06	1.16E-06	2.5551E-02
520363.68	4258393.21	146970.5411	0.29761	0.47749	0.29752	0.51653	2.55E-02	6.99E-07	9.79E-07	6.98E-07	1.02E-06	2.5495E-02
520158	4258432.56	146868.2895	0.63772	3.208	0.67847	3.75427	2.55E-02	1.50E-06	6.58E-06	1.59E-06	7.39E-06	2.5491E-02
520128.57	4258452.47	146806.0032	0.74182	5.61888	0.81118	6.77607	2.55E-02	1.74E-06	1.15E-05	1.90E-06	1.33E-05	2.5491E-02
520365.37	4258822.82	146433.9009	0.49672	0.24002	0.47749	0.25536	2.54E-02	1.17E-06	4.92E-07	1.12E-06	5.03E-07	2.5402E-02
520236.4	4258402.81	146149.1926	0.46027	1.12624	0.47378	1.37808	2.53E-02	1.08E-06	2.51E-06	1.11E-06	2.71E-06	2.5356E-02
520345.59	4258832.85	146123.3206	0.56026	0.25245	0.5378	0.2683	2.53E-02	1.32E-06	5.18E-07	1.26E-06	5.28E-07	2.5348E-02
520177.6	4258422.63	145965.4693	0.58334	2.3962	0.60919	2.7671	2.53E-02	1.37E-06	4.91E-06	1.43E-06	5.45E-06	2.5330E-02
520285.37	4258392.96	145733.2519	0.3839	0.80313	0.39026	0.89145	2.53E-02	9.01E-07	1.65E-06	9.16E-07	1.75E-06	2.5282E-02
520092.8	4258745.07	145700.3488	14.41568	1.25954	13.64284	1.1415	2.53E-02	3.38E-05	2.58E-06	3.20E-05	2.25E-06	2.5342E-02
520447.67	4258724.17	145607.6892	0.30628	0.22066	0.29593	0.23215	2.53E-02	7.19E-07	4.53E-07	6.95E-07	4.57E-07	2.5257E-02
520133.86	4258799.33	145336.9438	4.70309	0.77217	4.08184	0.7506	2.52E-02	1.10E-05	1.58E-06	9.58E-06	1.48E-06	2.5232E-02
520373.47	4258393.24	145177.8448	0.28851	0.45185	0.28854	0.48738	2.52E-02	6.77E-07	9.27E-07	6.77E-07	9.59E-07	2.5184E-02
520158.34	4258819.43	145164.6811	3.02864	0.61309	2.69901	0.62224	2.52E-02	7.11E-06	1.26E-06	6.34E-06	1.22E-06	2.5194E-02
520395.04	4258802.77	144655.2246	0.41761	0.22481	0.40231	0.23911	2.51E-02	9.80E-07	4.61E-07	9.44E-07	4.71E-07	2.5093E-02
520106.71	4258768.14	144267.2424	9.24548	1.04026	7.94914	0.96037	2.50E-02	2.17E-05	2.13E-06	1.87E-05	1.89E-06	2.5067E-02
520412.23	4258785.64	144109.9565	0.37892	0.2198	0.36547	0.23318	2.50E-02	8.90E-07	4.51E-07	8.58E-07	4.59E-07	2.4998E-02
520256.51	4258853	143994.6232	1.05529	0.33473	0.99821	0.3589	2.50E-02	2.48E-06	6.87E-07	2.34E-06	7.06E-07	2.4981E-02
520275.58	4258392.93	143886.9739	0.39937	0.86949	0.40407	0.96736	2.50E-02	9.36E-07	1.78E-06	9.49E-07	1.90E-06	2.4962E-02
520266.41	4258852.98	143881.1911	0.9751	0.32184	0.92508	0.34479	2.50E-02	2.29E-06	6.60E-07	2.17E-06	6.79E-07	2.4961E-02
520246.61	4258853.02	143460.7105	1.14511	0.34847	1.07948	0.37376	2.49E-02	2.69E-06	7.15E-07	2.53E-06	7.36E-07	2.4889E-02
520276.31	4258852.97	143365.0733	0.90441	0.30987	0.86017	0.33157	2.49E-02	2.12E-06	6.36E-07	2.02E-06	6.53E-07	2.4871E-02
520412.59	4258403.36	143282.624	0.25903	0.36178	0.25948	0.38806	2.49E-02	6.08E-07	7.42E-07	6.09E-07	7.64E-07	2.4854E-02
520118.75	4258462.44	143271.7126	0.79869	7.14588	0.87893	8.69378	2.48E-02	1.88E-06	1.47E-05	2.06E-06	1.71E-05	2.4886E-02
520116.33	4258782.1	143012.7395	7.01585	0.92162	6.0282	0.86517	2.48E-02	1.65E-05	1.89E-06	1.42E-05	1.70E-06	2.4839E-02
520385.16	4258812.79	142821.9101	0.44286	0.22812	0.42623	0.24273	2.48E-02	1.04E-06	4.68E-07	1.00E-06	4.78E-07	2.4775E-02
520177.27	4258833.13	142729.3566	2.31241	0.52096	2.09661	0.54146	2.48E-02	5.43E-06	1.07E-06	4.92E-06	1.07E-06	2.4768E-02
520197.21	4258412.69	142672.4125	0.53165	1.87099	0.55001	2.13525	2.47E-02	1.25E-06	3.84E-06	1.29E-06	4.20E-06	2.4756E-02
520138.39	4258442.5	142667.91	0.68865	4.57433	0.74783	5.43922	2.47E-02	1.62E-06	9.38E-06	1.76E-06	1.07E-05	2.4767E-02
520454.54	4258707.77	142606.7493	0.29284	0.22125	0.28307	0.23294	2.47E-02	6.87E-07	4.54E-07	6.65E-07	4.59E-07	2.4737E-02
520286.21	4258852.95	142430.0322	0.84145	0.29869	0.80198	0.31916	2.47E-02	1.98E-06	6.13E-07	1.88E-06	6.28E-07	2.4709E-02
520434.59	4258756.37	142410.519	0.33416	0.21726	0.32269	0.22918	2.47E-02	7.85E-07	4.46E-07	7.58E-07	4.51E-07	2.4703E-02
520149.33	4258815.71	142385.9726	3.51531	0.6561	3.10369	0.65532	2.47E-02	8.25E-06	1.35E-06	7.29E-06	1.29E-06	2.4714E-02
520226.61	4258402.78	142367.2333	0.47287	1.35524	0.48729	1.52767	2.47E-02	1.11E-06	2.78E-06	1.14E-06	3.01E-06	2.4701E-02
520236.71	4258853.03	142269.1917	1.24608	0.36321	1.17011	0.3894	2.47E-02	2.93E-06	7.45E-07	2.75E-06	7.67E-07	2.4683E-02
520426.3	4258769.81	142267.4914	0.35103	0.21718	0.33877	0.22961	2.47E-02	8.24E-07	4.45E-07	7.95E-07	4.52E-07	2.4678E-02
520265.8	4258392.9	141700.6337	0.40808	0.94469	0.41788	1.05338	2.46E-02	9.58E-07	1.94E-06	9.81E-07	2.07E-06	2.4583E-02
520432.14	4258413.42	141174.8786	0.24675	0.32547	0.24673	0.34871	2.45E-02	5.79E-07	6.68E-07	5.79E-07	6.86E-07	2.4489E-02
520462.09	4258480.02	141035.9007	0.23838	0.2691	0.23593	0.28703	2.45E-02	5.60E-07	5.52E-07	5.54E-07	5.65E-07	2.4464E-02
520355.49	4258832.84	141023.7697	0.52843	0.2433	0.50747	0.25856	2.45E-02	1.24E-06	4.99E-07	1.19E-06	5.09E-07	2.4463E-02
520296.11	4258852.93	140917.674	0.78436	0.28806	0.74891	0.30732	2.44E-02	1.84E-06	5.91E-07	1.76E-06	6.05E-07	2.4446E-02
520393.05	4258393.3	140791.5988	0.27164	0.40505	0.27171	0.43536	2.44E-02	6.38E-07	8.31E-07	6.38E-07	8.57E-07	2.4423E-02
520226.81	4258853.05	140481.4378	1.36095	0.37912	1.27246	0.40583	2.44E-02	3.20E-06	7.78E-07	2.99E-06	7.99E-07	2.4374E-02
520403.49	4258799.27	139665.9496	0.39905	0.21989	0.38449	0.23366	2.42E-02	9.37E-07	4.51E-07	9.03E-07	4.60E-07	2.4227E-02
520443.25	4258742.78	139587.5631	0.31748	0.21657	0.30657	0.228	2.42E-02	7.45E-07	4.44E-07	7.20E-07	4.49E-07	2.4213E-02
520375.27	4258822.8	139465.0613	0.46963	0.23127	0.45156	0.24598	2.42E-02	1.10E-06	4.74E-07	1.06E-06	4.84E-07	2.4193E-02
520256.01	4258392.87	139166.3522	0.4201	1.03052	0.43144	1.15162	2.41E-02	9.86E-07	2.11E-06	1.01E-06	2.27E-06	2.4144E-02
520140.31	4258811.99	139122.2474	4.15809	0.7018	3.6317	0.68838	2.41E-02	9.76E-06	8.53E-06	1.44E-06	1.36E-06	2.4151E-02
520306.02	4258852.92	138843.0467	0.73238	0.27785	0.70031	0.29598	2.41E-02	1.72E-06	5.70E-07	1.64E-06	5.83E-07	2.4086E-02
520216.91	4258853.07	138400.9526	1.49709	0.39695	1.39255	0.42351	2.40E-02	3.51E-06	8.14E-07	3.27E-06	8.34E-07	2.4013E-02
520334.35	4258383.11	138164.5991	0.32128	0.57345	0.32263	0.62756	2.40E-02	7.54E-07	1.18E-06	7.57E-07	1.24E-06	2.3968E-02
520216.82	4258402.75	138153.5114	0.48481	1.50581	0.49989	1.7034	2.40E-02	1.14E-06	3.09E-06	1.17E-06	3.35E-06	2.3971E-02
520324.56	4258383.08	137987.982	0.33135	0.61116	0.33366	0.67092	2.39E-02	7.78E-07	1.25E-06	7.83E-07	1.32E-06	2.3938E-02
520344.14	4258383.14	137982.1753	0.31152	0.53962	0.31216	0.58858	2.39E-02	7.31E-07	1.11E-06	7.33E-07	1.16E-06	2.3936E-02
520167.82	4258422.59	137901.49	0.59132	2.76904	0.62407	3.21885	2.39E-02	1.39E-06	5.68E-06	1.47E-06	6.34E-06	2.3933E-02
520422.38	4258403.39	137622.618	0.25136	0.34464	0.25177	0.36922	2.39E-02	5.90E-07	7.07E-07	5.91E-07	7.27E-07	2.3873E-02
520167.37	4258833.15	137565.2154	2.66022	0.55139	2.38977	0.56474	2.39E-02	6.25E-06	1.13E-06	5.61E-06	1.11E-06	2.3874E-02
520314.77	4258383.05	137473.7618	0.34171	0.65347	0.34521	0.71938	2.38E-02	8.02E-07	1.34E-06	8.10E-07	1.42E-06	2.3840E-02
520402.84	4258393.33	137050.4745	0.26351	0.3842	0.26374	0.41228	2.38E-02	6.19E-07	7.88E-07	6.19E-07	8.12E-07	2.3774E-02
520353.92	4258383.18	136894.2414	0.30194	0.50946	0.30231	0.5535	2.37E-02	7.09E-07	1.04E-06	7.10E-07	1.09E-06	2.3747E-02
520187.42	4258412.66	136565.0515	0.54202	2.11907	0.56347	2.43245	2.37E-02	1.27E-06	4.35E-06	1.32E-06	4.79E-06	2.3698E-02
520098.06	4258764.57	136488.3389	12.19537	1.08323	10.84106	0.98809	2.37E-02	2.86E-05	2.22E-06	2.55E-05	1.95E-06	2.3732E-02
520461.41	4258691.37	136482.9838	0.2803	0.22107	0.27118	0.23304	2.37E-02	6.58E-07	4.53E-07	6.37E-07	4.59E-07	2.3675E-02
520315.92	4258852.9	136399.7536	0.68563	0.26819	0.65635	0.28528	2.37E-02	1.61E-06	5.54E-07	1.54E-06	5.62E-07	2.3662E-02
520107.83	4258778.6	136345.7679	8.89636	0.96813	7.67971	0.89436	2.36E-02	2.09E-05	1.99E-06	1.80E-05	1.76E-06	2.3691E-02
520246.22	4258392.84	136285.3693	0.43189	1.1292	0.44444	1.26464	2.36E-02	1.01E-06	2.32E-06	1.04E-06	2.49E-06	2.3645E-02
520345.6	4258842.85	136031.8228	0.56551	0.24719	0.54258	0.26248	2.36E-02	1.33E-06	5.07E-07	1.27E-06	5.17E-07	2.3598E-02
520207.01	4258853.08	135947.9031	1.65914	0.41677	1.53403	0.44227	2.36E-02	3.90E-06	8.55E-07	3.60E-06	8.71E-07	2.3589E-02
520148.21	4258432.53	135940.7685	0.63945	3.8176	0.68936	4.48555	2.36E-02	1.50E-06	7.83E-06	1.62E-06	8.83E-06	2.3598E-02
520363.71	4258383.21	135914.2793	0.29288	0.48118	0.29293	0.52116	2.36E-02	6.88E-07	9.87E-07	6.88E-07	1.03E-06	2.3577E-02
520365.39	4258832.82	135910.9158	0.50037	0.23508	0.48063	0.24985	2.36E-02	1.17E-06	4.82E-07	1.13E-06	4.92E-07	2.3576E-02
520158.52	4258829.5	135605.914	3.03022	0.58761	2.70086	0.59377	2.35E-02	7.11E-06	1.21E-06	6.34E-06	1.17E-06	2.3536E-02
520295.19	4258382.99	135448.0817	0.36313	0.75356	0.36947	0.83387	2.35E-02	8.53E-07	1.55E-06	8.67E-07	1.64E-06	2.3498E-02
520117.12	4258792.42	134902.8232	6.89148	0.86492	5.92645	0.81104	2.34E-02	1.62E-05	1.77E-06	1.39E-05	1.60E-06	2.3432E-02
520395.06	4258812.77	134428.9506	0.42068	0.22043	0.40485	0.23438	2.33E-02	9.88E-07	4.52E-07	9.50E-07	4.61E-07	2.3319E-02
520373.5	4258383.24	134317.1297	0.28411	0.45537	0.28408	0.49166	2.33E-02	6.67E-07	9.34E-07	6.67E-07	9.68E-07	2.3300E-02
520411.94	4258795.77	134241.0409	0.38205	0.21543	0.36813	0.22865	2.33E-02	8.97E-07	4.42E-07	8.64E-07	4.50E-07	2.3286E-02
520285.4	4258382.96	133948.8798	0.37407	0.81303	0.38194	0.90182	2.32E-02	8.78E-07	1.67E-06	8.97E-07	1.78E-06	2.3238E-02

520057.12	4258673.87	128011.2239	6.04053	2.19197	11.57685	1.97632	2.22E-02	1.42E-05	4.50E-06	2.72E-05	3.89E-06	2.2253E-02
520334.38	4258373.11	127864.2489	0.31527	0.57846	0.31781	0.63352	2.22E-02	7.40E-07	1.19E-06	7.46E-07	1.25E-06	2.2181E-02
520422.41	4258393.39	127823.5263	0.2483	0.34808	0.24875	0.37241	2.22E-02	5.83E-07	7.14E-07	5.84E-07	7.33E-07	2.2173E-02
520059.89	4258618.24	127798.949	5.0988	5.70599	11.54337	4.35416	2.22E-02	1.20E-05	1.17E-05	2.71E-05	8.57E-06	2.2225E-02
520344.17	4258373.14	127770.2899	0.306	0.5441	0.30764	0.59402	2.22E-02	7.18E-07	1.12E-06	7.22E-07	1.17E-06	2.2165E-02
520324.59	4258373.08	127629.4557	0.32477	0.61704	0.32841	0.67763	2.21E-02	7.62E-07	1.27E-06	7.71E-07	1.33E-06	2.2141E-02
520256.04	4258382.87	127533.4671	0.40657	1.0442	0.41831	1.16547	2.21E-02	9.54E-07	2.14E-06	9.82E-07	2.29E-06	2.2126E-02
520158.67	4258839.55	127217.8379	3.04657	0.5646	2.71257	0.56785	2.21E-02	7.15E-06	1.16E-06	6.37E-06	1.12E-06	2.2081E-02
520402.87	4258383.33	127188.3482	0.25996	0.38752	0.25992	0.41576	2.21E-02	6.10E-07	7.95E-07	6.10E-07	8.18E-07	2.2063E-02
520314.8	4258373.05	127073.5358	0.33447	0.66008	0.33936	0.72674	2.20E-02	7.85E-07	1.35E-06	7.97E-07	1.43E-06	2.2045E-02
520459.13	4258430.83	126994.4416	0.23085	0.28358	0.22957	0.30264	2.20E-02	5.42E-07	5.82E-07	5.39E-07	5.96E-07	2.2029E-02
520353.96	4258373.18	126877.1818	0.29684	0.51347	0.29798	0.55847	2.20E-02	6.97E-07	1.05E-06	7.00E-07	1.10E-06	2.2010E-02
520118.78	4258452.44	126849.2885	0.72405	7.19521	0.79178	8.75012	2.20E-02	1.70E-06	1.48E-05	1.86E-06	1.72E-05	2.2037E-02
520057.12	4258636.77	126816.4181	5.22246	3.7567	10.15607	3.15456	2.20E-02	1.23E-05	7.70E-06	2.38E-05	6.21E-06	2.2046E-02
520365.4	4258842.82	126667.0159	0.5043	0.23037	0.48408	0.24458	2.20E-02	1.18E-06	4.72E-07	1.14E-06	4.81E-07	2.1973E-02
520128.6	4258442.47	126557.8477	0.67831	5.65848	0.73882	6.83124	2.20E-02	1.59E-06	1.16E-05	1.73E-06	1.34E-05	2.1979E-02
520207.02	4258863.08	126553.3572	1.65869	0.40251	1.53401	0.42625	2.20E-02	3.89E-06	8.26E-07	3.60E-06	8.39E-07	2.1959E-02
520315.93	4258862.9	126408.9243	0.68729	0.26019	0.65784	0.27692	2.19E-02	1.61E-06	5.34E-07	1.54E-06	5.45E-07	2.1929E-02
520363.74	4258373.21	126036.6049	0.28817	0.48485	0.28874	0.52573	2.19E-02	6.77E-07	9.94E-07	6.78E-07	1.03E-06	2.1864E-02
520441.94	4258763.34	126023.0079	0.32461	0.2093	0.31324	0.22058	2.19E-02	7.62E-07	4.29E-07	7.35E-07	4.34E-07	2.1860E-02
520411.7	4258805.88	125442.1413	0.38516	0.2113	0.37073	0.22431	2.18E-02	9.04E-07	4.33E-07	8.70E-07	4.42E-07	2.1760E-02
520216.85	4258392.75	125343.656	0.46422	1.52426	0.47857	1.72346	2.17E-02	1.09E-06	3.13E-06	1.12E-06	3.39E-06	2.1749E-02
520177.3	4258853.13	125241.4161	2.35245	0.48594	2.12804	0.50067	2.17E-02	5.52E-06	9.97E-07	5.00E-06	9.86E-07	2.1735E-02
520395.07	4258822.77	125156.8251	0.42336	0.21606	0.407	0.22961	2.17E-02	9.94E-07	4.43E-07	9.56E-07	4.52E-07	2.1711E-02
520149.95	4258835.95	125051.7093	1.50389	0.59985	1.09445	0.59418	2.17E-02	8.23E-06	1.23E-06	7.26E-06	1.17E-06	2.1708E-02
520464.75	4258707.32	125010.7697	0.28009	0.21349	0.27043	0.22459	2.17E-02	6.58E-07	4.38E-07	6.35E-07	4.42E-07	2.1685E-02
520246.25	4258382.84	124735.8452	0.41691	1.14371	0.42928	1.27958	2.16E-02	9.79E-07	2.35E-06	1.01E-06	2.52E-06	2.1642E-02
520108.93	4258472.41	124717.3121	0.85546	9.53156	0.9477	11.54478	2.16E-02	2.01E-06	1.95E-05	2.22E-06	2.27E-05	2.1678E-02
520373.53	4258373.24	124685.1433	0.27974	0.45874	0.27998	0.49586	2.16E-02	6.57E-07	9.41E-07	6.57E-07	9.76E-07	2.1629E-02
520113.27	4258800.83	124659.5734	7.65586	0.83441	6.58663	0.77545	2.16E-02	1.80E-05	1.71E-06	1.55E-05	1.53E-06	2.1658E-02
520057.12	4258683.15	124562.5859	6.15111	1.96683	11.85848	1.78869	2.16E-02	1.44E-05	4.03E-06	2.78E-05	3.52E-06	2.1655E-02
520256.54	4258873	124507.0312	1.06138	0.3138	1.00363	0.33667	2.16E-02	2.49E-06	6.44E-07	2.36E-06	6.63E-07	2.1601E-02
520266.45	4258872.98	124422.7199	0.98177	0.30202	0.93109	0.32389	2.16E-02	2.30E-06	6.19E-07	2.19E-06	6.38E-07	2.1586E-02
520246.64	4258873.02	124089.674	1.15037	0.32634	1.08414	0.35001	2.15E-02	2.70E-06	6.69E-07	2.55E-06	6.89E-07	2.1529E-02
520276.35	4258872.97	123866.2553	0.91055	0.29095	0.86572	0.31171	2.15E-02	2.14E-06	5.97E-07	2.03E-06	6.14E-07	2.1489E-02
520325.83	4258862.89	123863.4979	0.64508	0.25156	0.61794	0.26735	2.15E-02	1.51E-06	5.16E-07	1.45E-06	5.26E-07	2.1488E-02
520197.12	4258863.1	123802.2529	1.84733	0.42292	1.69753	0.44431	2.15E-02	4.34E-06	8.67E-07	3.99E-06	8.75E-07	2.1483E-02
520450.43	4258749.82	123731.0592	0.30901	0.20868	0.29808	0.21952	2.15E-02	7.25E-07	4.28E-07	7.00E-07	4.32E-07	2.1463E-02
520138.42	4258432.5	123640.5487	0.63542	4.61588	0.68931	5.48525	2.14E-02	1.49E-06	9.47E-06	1.62E-06	1.08E-05	2.1468E-02
520285.44	4258372.96	123553.217	0.36419	0.82329	0.37322	0.91214	2.14E-02	8.55E-07	1.69E-06	8.76E-07	1.80E-06	2.1435E-02
520100.38	4258785.51	123490.5115	11.32571	0.93852	9.96805	0.85837	2.14E-02	2.66E-05	1.92E-06	2.34E-05	1.69E-06	2.1472E-02
520412.66	4258383.36	123347.5167	0.25241	0.36841	0.25253	0.39453	2.14E-02	5.93E-07	7.56E-07	5.93E-07	7.77E-07	2.1397E-02
520385.19	4258832.79	123269.4833	0.44817	0.21888	0.43052	0.23251	2.14E-02	1.05E-06	4.49E-07	1.01E-06	4.58E-07	2.1383E-02
520236.74	4258873.03	123266.9844	1.25177	0.34004	1.17514	0.36416	2.14E-02	2.94E-06	6.97E-07	2.76E-06	7.17E-07	2.1387E-02
520286.25	4258872.95	122910.5116	0.84671	0.28057	0.80674	0.30022	2.13E-02	1.99E-06	5.75E-07	1.89E-06	5.91E-07	2.1323E-02
520123.11	4258814.88	122889.9973	6.00755	0.74906	5.16491	0.70674	2.13E-02	1.41E-05	1.54E-06	1.21E-05	1.39E-06	2.1344E-02
520428.83	4258788.78	122863.8962	0.3517	0.20737	0.33885	0.21939	2.13E-02	8.26E-07	4.25E-07	7.96E-07	4.32E-07	2.1313E-02
520090.84	4258771.58	122794.2832	15.24834	1.03275	15.16187	0.93849	2.13E-02	3.58E-05	2.12E-06	3.56E-05	1.85E-06	2.1373E-02
520141.24	4258832.36	122738.3269	4.11508	0.63694	3.59592	0.62044	2.13E-02	9.66E-06	1.31E-06	8.44E-06	1.22E-06	2.1309E-02
520355.52	4258852.84	122620.1712	0.53727	0.23336	0.51538	0.24756	2.13E-02	1.26E-06	4.79E-07	1.21E-06	4.87E-07	2.1271E-02
520438.05	4258774.96	122523.0276	0.33344	0.20713	0.32155	0.21859	2.13E-02	7.83E-07	4.25E-07	7.55E-07	4.30E-07	2.1253E-02
520187.46	4258402.66	122499.8936	0.51377	2.14294	0.53585	2.4586	2.12E-02	1.21E-06	4.40E-06	1.26E-06	4.84E-06	2.1259E-02
520059.85	4258608.54	122497.0667	4.51414	7.14133	10.43773	5.02645	2.12E-02	1.06E-05	1.46E-05	2.45E-05	9.89E-06	2.1306E-02
520167.85	4258412.59	122261.8449	0.55552	2.79837	0.58896	3.25095	2.12E-02	1.30E-06	5.74E-06	1.38E-06	6.40E-06	2.1221E-02
520432.2	4258393.42	122061.6155	0.24109	0.33187	0.24155	0.35465	2.12E-02	5.66E-07	6.81E-07	5.67E-07	6.98E-07	2.1174E-02
520226.84	4258873.05	122014.593	1.36825	0.35504	1.27886	0.37911	2.12E-02	3.21E-06	7.28E-07	3.00E-06	7.46E-07	2.1171E-02
520275.65	4258372.93	121771.3296	0.37405	0.89211	0.3843	0.99014	2.11E-02	8.78E-07	1.83E-06	9.02E-07	1.95E-06	2.1126E-02
520296.15	4258872.93	121617.8877	0.78957	0.27088	0.75363	0.28945	2.11E-02	1.85E-06	5.56E-07	1.77E-06	5.70E-07	2.1099E-02
520236.46	4258382.81	121593.4244	0.42678	1.25777	0.43947	1.41116	2.11E-02	1.00E-06	2.58E-06	1.03E-06	2.78E-06	2.1097E-02
520393.11	4258373.3	121253.9375	0.26402	0.41161	0.26375	0.44278	2.10E-02	6.20E-07	8.44E-07	6.19E-07	8.72E-07	2.1034E-02
520335.74	4258862.87	121188.9067	0.60747	0.24357	0.58222	0.25859	2.10E-02	1.43E-06	5.00E-07	1.37E-06	5.09E-07	2.1023E-02
520375.31	4258842.8	121077.8574	0.47653	0.22226	0.45742	0.23595	2.10E-02	1.12E-06	4.56E-07	1.07E-06	4.64E-07	2.1004E-02
520167.4	4258853.15	120919.4209	2.6963	0.51213	2.4177	0.51978	2.10E-02	6.33E-06	1.05E-06	5.68E-06	1.02E-06	2.0987E-02
520207.06	4258392.72	120866.9456	0.47337	1.70277	0.48916	1.93316	2.10E-02	1.11E-06	3.49E-06	1.15E-06	3.81E-06	2.0973E-02
520187.22	4258863.12	120643.1101	2.07393	0.44494	1.89218	0.46268	2.09E-02	4.87E-06	9.13E-07	4.44E-06	9.11E-07	2.0936E-02
520216.94	4258873.07	120314.5132	1.50282	0.37138	1.39768	0.39474	2.09E-02	3.53E-06	7.62E-07	3.28E-06	7.77E-07	2.0876E-02
520458.69	4258420.62	120293.4796	0.22892	0.28646	0.22804	0.3058	2.09E-02	5.37E-07	5.88E-07	5.35E-07	6.02E-07	2.0867E-02
520306.05	4258872.92	120006.4859	0.73826	0.26184	0.70565	0.27935	2.08E-02	1.73E-06	5.37E-07	1.66E-06	5.50E-07	2.0819E-02
520265.86	4258372.9	119685.5135	0.38375	0.96991	0.39492	1.07853	2.08E-02	9.01E-07	1.99E-06	9.27E-07	2.12E-06	2.0765E-02
520471.48	4258691.25	119469.2905	0.26859	0.2134	0.25965	0.2247	2.07E-02	6.31E-07	4.38E-07	6.10E-07	4.42E-07	2.0724E-02
520422.44	4258383.39	119137.8277	0.24523	0.35132	0.24553	0.37553	2.07E-02	5.76E-07	7.21E-07	5.76E-07	7.39E-07	2.0667E-02
520104.26	4258797.11	119008.5514	9.94722	0.86876	8.66777	0.79766	2.06E-02	2.34E-05	1.78E-06	2.03E-05	1.57E-06	2.0689E-02
520148.24	4258422.53	118946.8435	0.59435	3.85489	0.64165	4.52308	2.06E-02	1.40E-06	7.91E-06	1.51E-06	8.90E-06	2.0650E-02
520472.09	4258480.39	118941.9821	0.23055	0.25794	0.22798	0.27476	2.06E-02	5.41E-07	5.29E-07	5.35E-07	5.41E-07	2.0632E-02
520334.41	4258363.11	118723.8996	0.30926	0.58396	0.31302	0.63968	2.06E-02	7.26E-07	1.20E-06	7.35E-07	1.26E-06	2.0596E-02
520344.2	4258363.15	118714.9168	0.3005	0.54881	0.30327	0.59951	2.06E-02	7.05E-07	1.13E-06	7.12E-07	1.18E-06	2.0594E-02
520402.9	4258373.33	118499.1541	0.25646	0.39065	0.25622	0.41926	2.06E-02	6.02E-07	8.01E-07	6.02E-07	8.25E-07	2.0556E-02
520324.62	4258363.08	118431.6281	0.31817	0.62327	0.32308	0.68443	2.05E-02	7.47E-07	1.28E-06	7.58E-07	1.35E-06	2.0546E-02
520207.04	4258873.08	118305.8339	1.66248	0.38948	1.53735	0.41136	2.05E-02	3.90E-06	7.99E-07	3.61E-06	8.10E-07	2.0529E-02
520114.26	4258811.23	118282.1445	7.49525	0.78532	6.43349	0.72982	2.05E-02	1.76E-05	1.61E-06	1.51E-05	1.44E-06	2.0551E-02
520226.67	4258382.78	118088.6024	0.43605	1.38894	0.44908	1.56372	2.05E-02	1.02E-06	2.85E-06	1.05E-06	3.08E-06	2.0490E-02
520353.99	4258363.18	117991.5186	0.2918	0.51758	0.29388	0.56342	2.05E-02	6.85E-07	1.06E-06	6.90E-07	1.11E-06	2.0469E-02
520365.42	4258852.82	117893.5438	0.50668	0.22518	0.48605	0.23885	2.04E-02	1.19E-06	4.62E-07	1.14E-06	4.70E-07	2.0451E-02
520315.95	4258872.9	117844.9876	0.6906	0.25298	0.66088	0.26944	2.04E-02	1.62E-06	5.19E-07	1.55E-06	5.30E-07	2.0444E-02
520314.83	4258363.05	117836.5265	0.3272	0.66702	0.33333	0.73415	2.04E-02	7.68E-07	1.37E-06	7.83E-07	1.45E-06	2.0443E-02
520108.96	4258462.41	117707.6003	0.76902	9.58585	0.84506	11.61428	2.04E-02	1.81E-06	1.97E-05	1.98E-06	2.29E-05	2.0462E-02
520092.01	4258782.06	117339.7232	14.77259	0.96193	14.31826	0.87563	2.04E-02	3.47E-05	1.97E-06	3.36E-05	1.72E-06	2.0424E-02
520256.07	4258372.87	117291.683	0.39319	1.05805	0.40488	1.17914	2.03E-02	9.23E-07	2.17E-06	9.51E-07	2.32E-06	2.0350E-02
520363.78	4258363.21	117140.166	0.28344	0.48863	0.28484	0.53025	2.03E-02	6.65E-07	1.00E-06	6.69E-07	1.04E-06	2.0321E-02
520177.32	4258863.13	117045.5749	2.34694	0.4682	2.12485	0.48074	2.03E-02	5.51E-06	9.60E-07	4.99E-06	9.46E-07	2.0313E-02
520305.04	4258363.02	116949.1769	0.3363	0.71606	0.34369	0.78974	2.03E-02	7.90E-07	1.47E-06	8.07E-07	1.55E-06	2.0289E-02
520059.81	4258598.85	116771.6907	3.78442	8.9405	8.72421	5.65802	2.03E-02	8.88E-06	1.83E-05	2.05E-05	1.11E-05	2.0312E-02
520467.75	4258434.52	116731.7623	0.22541	0.27218	0.22389	0.29004	2.02E-02	5.29E-07	5.58E-07	5.26E-07	5.71E-07	2.0249E-02
520395.09	4258832.77	116684.092	0.42556	0.21167	0.40871	0.22477	2.02E-02	9.99E-07	4.34E-07	9.60E-07	4.42E-07	2.0241E-02
520256.56	425888 3	116508.0465	1.06715	0.30473	1.00873	0.32694	2.02E-02	2.51E-06	6.25E-07	2.37E-06	6.44E-07	2.0214E-02
520266.46	4258882.98	116398.5835	0.98726	0.29337	0.936	0.3147	2.02E-02	2.32E-06	6.02E-07	2.20E-06	6.19E-07	2.0195E-02
520473.34	4258463.05	116296.5474	0.22668	0.26021	0.22457	0.27691	2.02E-02	5.32E-07	5.34E-07	5.27E-07	5.45E-07	2.0173E-02
520246.66	4258883.02	116209.6131	1.15714	0.317	1.09006	0.33983	2.02E-02	2.72E-06	6.50E-07	2.56E-06	6.69E-07	2.0163E-02
520123.81	4258825.16	116178.2826	5.9324	0.70906	5.09729	0.66833	2.02E-02	1.39E-05	1.45E-06	1.20E-05	1.32E-06	2.0179E-02
520177.67	4258402.63	116133.059	0.51969	2.44863	0.54728	2.82496	2.01E-02	1.22E-06	5.02E-06	1.28E-06	5.56E-06	2.0156E-02
520437.28	4258785.28	116101.0763	0.3371	0.2034	0.3248	0.21483	2.01E-02	7.91E-07	4.17E-07	7.63E-07	4.23E-07	2.0140E-02
520373.56	4258363.24	116071.2179	0.27541	0.4621	0.27622	0.50001	2.01E-02	6.47E-07	9.48E-07	6.48E-07	9.84E-07	2.0135E-02
520197.28	4258392.69	115919.7878	0.48122	1.91323	0.49983	2.18238	2.01E-02	1.13E-06	3.92E-06	1.17E-06	4.30E-06	2.0116E-02
520276.36	4258882.97	115911.415	0.91613	0.28281	0.87076	0.30314	2.01E-02	2.15E-06	5.80E-07	2.04E-06	5.97E-07	2.0110E-02
520197.14	425883 1	115852.6276	1.85088	0.40896	1.70073	0.42832	2.01E-02	4.35E-06	8.39E-07	3.99E-06	8.43E-07	2.0104E-02
520428.34	4258798.99	115832.2635	0.35498	0.20357	0.34171	0.21551	2.01E-02	8.33E-07	4.18E-07	8.02E-07	4.24E-07	2.0093E-02
520295.26	4258362.99	115774.6334	0.34538	0.77105	0.35399	0.85194	2.01E-02	8.11E-07	1.58E-06	8.31E-07	1.68E-06	2.0085E-02
520061.21	4258717.12	115629.3663	7.55732	1.43669	17.63332	1.32556	2.01E-02	1.77E-05	2.95E-06	4.14E-05	2.61E-06	2.0120E-02
520236.76	4258883.03	115514.2898	1.25938	0.33035	1.18172	0.35342	2.00E-02	2.96E-06	6.78E-07	2.77E-06	6.96E-07	2.0043E-02
520325.85	4258872.89	115430.1794	0.64775	0.24468	0.62038	0.26017	2.00E-02	1.52E-06	5.02E-07	1.46E-06	5.12E-07	2.0025E-02
520385.21	4258842.79	115283.0009	0.45132	0.21471	0.43315	0.22789	2.00E-02	1.06E-06	4.40E-07	1.02E-06	4.49E-07	1.9998E-02
520412.69	4258373.36	115118.8841	0.24913	0.27137	0.249	0.3977	2.00E-02	5.85E-07	7.62E-07	5.85E-07	7.83E-07	1.9970E-02
520461.66	4258738.63	115079.7257	0.29129	0.20514	0.28079	0.2154	2.00E-02	6.84E-07	4.21E-07	6.59E-07	4.24E-07	1.9962E-02
520286.26	4258882.95	115048.4904	0.85223	0.27289	0.81175	0.29219	2.00E-02	2.00E-06	5.60E-07	1.91E-06	5.75E-07	1.9960E-02
520446.65	4258771.39	114729.1854	0.31949	0.20296	0.30806	0.21383	1.99E-02	7.50E-07	4.16E-07	7.23E-07	4.21E-07	1.9902E-02
520246.28	4258372.84	114583.7415	0.40223	1.15847	0.41415	1.29436	1.99E-02	9.44E-07	2.38E-06	9.72E-07	2.55E-06	1.9881E-02
520226.86	4258883.05	114461.5989	1.37748	0.34503	1.28674	0.36784	1.99E-02	3.23E-06	7.08E-07	3.02E-06	7.24E-07	1.9861E-02
520285.47	4258362.96	114312.6785	0.35438	0.83305	0.36409	0.92197	1.98E-02	8.32E-07	1.71E-06	8.55E-07	1.81E-06	1.9833E-02
520216.88	4258382.75	114210.6964	0.44456	1.54172	0.4585	1.74241	1.98E-02	1.04E-06	3.16E-06	1.08E-06	3.43E-06	1.9818E-02
520355.54	4258862.84	114171.6069	0.53935	0.22771	0.51713	0.24142	1.98E-02	1.27E-06	4.67E-07	1.21E-06	4.75E-07	1.9806E-02
520432.23	4258383.42	114138.1713	0.23822	0.3349	0.23863	0.35747	1.98E-02	5.59E-07	6.87E-07	5.60E-07	7.04E-07	1.9799E-02
520158.06	4258412.56	113992.7823	0.55714	3.27538	0.59706	3.82522	1.98E-02	1.31E-06	6.72E-06	1.40E-06	7.53E-06	1.9788E-02
520296.17	4258882.93	113799.9688	0.79439	0.26351	0.758	0.28177	1.97E-02	1.86E-06	5.40E-07	1.78E-06	5.55E-07	1.9743E-02
520057.69	4258708.63	113753.036	6.34969	1.52196	12.77138	1.40367	1.97E-02	1.49E-05	3.12E-06	3.00E-05	2.76E-06	1.9781E-02
520468.29	4258722.81	113634.1804	0.27939	0.20604	0.26937	0.21631	1.97E-02	6.56E-07	4.23E-07	6.32E-07	4.26E-07	1.9711E-02
520095.25	4258793.39	113564.9744	13.38444	0.89426	12.31441	0.8159	1.97E-02	3.14E-05	1.83E-06	2.89E-05	1.61E-06	1.9761E-02
520105.4	4258807.57	113368.8308	9.64865	0.8156	8.36747	0.74953	1.97E-02	2.27E-05	1.67E-06	1.96E-05	1.48E-06	1.9709E-02
520167.42	4258863.15	113200.2549	2.6881	0.49388	2.41305	0.49842	1.96E-02	6.31E-06	1.01E-06	5.67E-06	9.81E-07	1.9648E-02
520393.14	425836 3.3	113124.7898	0.26027	0.4146	0.26016	0.44641	1.96E-02	6.11E-07	8.50E-07	6.11E-07	8.79E-07	1.9624E-02
520335.75	4258872.87	113121.0629	0.61057	0.23733	0.58502	0.25204	1.96E-02	1.43E-06	4.87E-07	1.37E-06	4.96E-07	1.9624E-02
520187.24	4258873.12	113085.4786	2.07894	0.43009	1.89657	0.44569	1.96E-02	4.88E-06	8.82E-07	4.45E-06	8.77E-07	1.9625E-02
520375.32	4258852.8	113051.7155	0.47921	0.21762	0.45964	0.2308	1.96E-02	1.13E-06	4.46E-07	1.08E-06	4.54E-07	1.9611E-02
520216.96	4258883.07	112997.6094	1.51405	0.36097	1.40714	0.38286	1.96E-02	3.55E-06	7.40E-07	3.30E-06	7.54E-07	1.9607E-02
520275.68	4258362.93	112554.0575	0.36322	0.90282	0.37377	1.00087	1.95E-02	8.53E-07	1.85E-06	8.77E-07	1.97E-06	1.9528E-02
520306.07	4258882.92	112345.7591	0.74299	0.25488	0.70996	0.27216	1.95E-02	1.74E-06	5.23E-07	1.67E-06	5.36E-07	1.9490E-02
520467.07	4258424.21	112253.5207	0.22381	0.27506	0.22259	0.29327	1.95E-02	5.25E-07	5.64E-07	5.23E-07	5.77E-07	1.9472E-02
520115.09	4258821.56	112176.9083	7.35523	0.74717	6.30434	0.68881	1.95E-02	1.73E-05	1.52E-06	1.48E-05	1.36E-06	1.9492E-02
520158.32	4258859.39	111975.3068	3.0764	0.52349	2.73854	0.52181	1.94E-02	7.22E-06	1.07E-06	6.43E-06	1.03E-06	1.9437E-02
520054.16	4258700.13	111611.0321	5.6169	1.61282	9.94732	1.4881	1.94E-02	1.32E-05	3.31E-06	2.34E-05	2.93E-06	1.9401E-02
520236.49	4258372.81	111551.4125	0.41079	1.27314	0.42285	1.42697	1.93E-02	9.64E-07	2.61E-06	9.93E-07	2.81E-06	1.9355E-02
520422.48	4258373.39	111421.2067	0.24214	0.35441	0.24221	0.37863	1.93E-02	5.68E-07	7.27E-07	5.69E-07	7.45E-07	1.9328E-02
520207.06	4258883.08	111194.6568	1.67487	0.37838	1.54764	0.39854	1.93E-02	3.93E-06	7.76E-07	3.63E-06	7.85E-07	1.9295E-02
520402.93	4258363.33	110719.4093	0.25298	0.3936	0.25273	0.42274	1.92E-02	5.94E-07	8.07E-07	5.93E-07	8.32E-07	1.9207E-02
520059.77	4258589.15	110619.6087	3.04233	10.75058	6.37004	6.12036	1.92E-02	7.14E-06	2.20E-05	1.50E-05	1.20E-05	1.9243E-02
520344.23	4258353.15	110583.159	0.29496	0.55398	0.29889	0.60518	1.92E-02	6.92E-07	1.14E-06	7.02E-07	1.19E-06	1.9184E-02
520334.44	4258353.11	110557.5662	0.3032	0.58982	0.30814	0.64597	1.92E-02	7.12E-07	1.21E-06	7.23E-07	1.27E-06	1.9180E-02
520457.59	4258756.86	110540.1485	0.30083	0.20117	0.28985	0.21147	1.92E-02	7.06E-07	4.13E-07	6.80E-07	4.16E-07	1.9175E-02
520265.89	425836 2.9	110498.9696	0.37183	0.98157	0.38289	1.09021	1.92E-02	8.73E-07	2.01E-06	8.99E-07	2.15

520432.26	4258373.42	107067.715	0.23536	0.33782	0.23556	0.3603	1.86E-02	5.53E-07	6.93E-07	5.53E-07	7.09E-07	1.8573E-02
520355.55	4258872.84	106709.0299	0.54181	0.22231	0.51927	0.23561	1.85E-02	1.27E-06	4.56E-07	1.22E-06	4.64E-07	1.8512E-02
520296.18	4258892.93	106623.0072	0.79831	0.25631	0.76152	0.27423	1.85E-02	1.87E-06	5.26E-07	1.79E-06	5.40E-07	1.8498E-02
520187.26	4258883.12	106453.2689	2.0928	0.41698	1.90775	0.43047	1.85E-02	4.91E-06	8.55E-07	4.48E-06	8.47E-07	1.8475E-02
520167.44	4258873.15	106406.0295	2.69201	0.47522	2.41676	0.47871	1.85E-02	6.32E-06	9.75E-07	5.67E-06	9.42E-07	1.8470E-02
520115.81	4258831.85	106378.5908	7.22662	0.7014	6.18938	0.65165	1.85E-02	1.70E-05	1.44E-06	1.45E-05	1.28E-06	1.8485E-02
520216.97	4258893.07	106151.8843	1.52146	0.35064	1.41338	0.37101	1.84E-02	3.57E-06	7.19E-07	3.32E-06	7.30E-07	1.8420E-02
520285.5	4258352.96	106055.4397	0.34467	0.84233	0.35458	0.93131	1.84E-02	8.09E-07	1.73E-06	8.32E-07	1.83E-06	1.8400E-02
520335.77	4258882.87	106038.401	0.61442	0.23151	0.5885	0.24602	1.84E-02	1.44E-06	4.75E-07	1.38E-06	4.84E-07	1.8396E-02
520403.77	4258839.18	105909.5252	0.40774	0.20277	0.39124	0.21512	1.84E-02	9.57E-07	4.16E-07	9.19E-07	4.23E-07	1.8372E-02
520393.17	4258353.3	105856.5985	0.25656	0.41739	0.25687	0.4499	1.84E-02	6.02E-07	8.56E-07	6.03E-07	8.86E-07	1.8363E-02
520476.37	4258438.21	105718.0657	0.22008	0.26173	0.21837	0.27844	1.83E-02	5.17E-07	5.37E-07	5.13E-07	5.48E-07	1.8338E-02
520246.31	4258362.84	105586.6476	0.38802	1.17167	0.39931	1.308	1.83E-02	9.11E-07	2.40E-06	9.37E-07	2.57E-06	1.8320E-02
520481.53	4258691.19	105423.489	0.25765	0.20602	0.2488	0.21672	1.83E-02	6.05E-07	4.23E-07	5.84E-07	4.27E-07	1.8287E-02
520375.34	4258862.8	105343.3661	0.48022	0.21249	0.46033	0.22512	1.83E-02	1.13E-06	4.36E-07	1.08E-06	4.43E-07	1.8274E-02
520158.47	4258869.45	105318.7525	3.07054	0.50323	2.73468	0.49986	1.83E-02	7.21E-06	1.03E-06	6.42E-06	9.84E-07	1.8283E-02
520197.31	4258382.69	105251.7771	0.45826	1.93329	0.47762	2.20383	1.83E-02	1.08E-06	3.97E-06	1.12E-06	4.34E-06	1.8266E-02
520306.08	4258892.92	105188.2415	0.74609	0.24788	0.71271	0.26484	1.82E-02	1.75E-06	5.08E-07	1.67E-06	5.21E-07	1.8249E-02
520108.99	4258452.41	104957.4952	0.69593	9.62409	0.75893	11.66282	1.82E-02	1.63E-06	1.97E-05	1.78E-06	2.30E-05	1.8251E-02
520148.27	4258412.53	104917.3067	0.55391	3.88845	0.59761	4.55859	1.82E-02	1.30E-06	7.97E-06	1.40E-06	8.97E-06	1.8217E-02
520047.12	4258664.6	104619.5494	3.95167	2.24575	6.12433	2.00939	1.81E-02	9.28E-06	4.61E-06	1.44E-05	3.96E-06	1.8178E-02
520047.12	4258673.87	104568.0113	4.08627	2.01746	6.30665	1.82703	1.81E-02	9.59E-06	4.14E-06	1.48E-05	3.60E-06	1.8169E-02
520207.07	4258893.08	104534.2599	1.68286	0.36735	1.55434	0.38582	1.81E-02	3.95E-06	7.53E-07	3.65E-06	7.59E-07	1.8140E-02
520422.51	4258363.39	104515.5423	0.2391	0.35692	0.23894	0.38141	1.81E-02	5.61E-07	7.32E-07	5.61E-07	7.51E-07	1.8130E-02
520177.7	4258392.63	104510.0708	0.49135	2.47247	0.51958	2.85055	1.81E-02	1.15E-06	5.07E-06	1.22E-06	5.61E-06	1.8140E-02
520216.92	4258372.75	104482.2261	0.42579	1.55912	0.43984	1.76035	1.81E-02	1.00E-06	3.20E-06	1.03E-06	3.47E-06	1.8131E-02
520061.4	4258741.7	104436.9872	8.15642	1.16717	18.12166	1.08754	1.81E-02	1.91E-05	2.39E-06	4.25E-05	2.14E-06	1.8180E-02
520275.71	4258352.93	104339.997	0.3526	0.91256	0.36293	1.01087	1.81E-02	8.28E-07	1.87E-06	8.52E-07	1.99E-06	1.8103E-02
520436.14	4258805.77	104073.9263	0.34345	0.19604	0.33029	0.20734	1.81E-02	8.06E-07	4.02E-07	7.75E-07	4.08E-07	1.8054E-02
520444.98	4258792.1	104015.6237	0.32663	0.19589	0.31436	0.20672	1.80E-02	7.67E-07	4.02E-07	7.38E-07	4.07E-07	1.8043E-02
520059.73	4258579.45	103971.4385	2.5146	12.03481	4.53985	6.47735	1.80E-02	5.90E-06	2.47E-05	1.07E-05	1.28E-05	1.8087E-02
520149.5	4258865.74	103872.5981	3.54739	0.5323	3.13273	0.52077	1.80E-02	8.33E-06	1.09E-06	7.35E-06	1.03E-06	1.8034E-02
520402.96	4258353.33	103748.6003	0.24953	0.39613	0.2495	0.42591	1.80E-02	5.86E-07	8.12E-07	5.86E-07	8.38E-07	1.7998E-02
520097.66	4258814.37	103621.0435	12.38413	0.78784	11.10901	0.72069	1.80E-02	2.91E-05	1.62E-06	2.61E-05	1.42E-06	1.8031E-02
520177.35	4258883.13	103568.4087	2.36872	0.4379	2.14252	0.44608	1.80E-02	5.56E-06	8.88E-07	5.03E-06	8.78E-07	1.7976E-02
520047.12	4258683.15	103482.8226	4.19826	1.82437	6.46955	1.66827	1.79E-02	9.86E-06	3.74E-06	1.52E-05	3.28E-06	1.7981E-02
520047.12	4258655.32	103478.4047	3.79612	2.51763	5.91625	2.21941	1.79E-02	8.91E-06	5.16E-06	1.39E-05	4.37E-06	1.7980E-02
520315.98	4258892.9	103434.6094	0.69843	0.23986	0.66793	0.25589	1.79E-02	1.64E-06	4.92E-07	1.57E-06	5.04E-07	1.7944E-02
520475.44	4258427.8	103394.8956	0.21827	0.2646	0.2173	0.28169	1.79E-02	5.14E-07	5.43E-07	5.10E-07	5.55E-07	1.7935E-02
520344.26	4258343.15	103174.9312	0.28938	0.55925	0.2944	0.61077	1.79E-02	6.79E-07	1.15E-06	6.91E-07	1.20E-06	1.7899E-02
520087.7	4258800.27	103108.3497	15.27936	0.85111	18.13949	0.77763	1.79E-02	3.59E-05	1.75E-06	4.26E-05	1.53E-06	1.7965E-02
520427.58	4258819.32	103072.2303	0.36076	0.19626	0.34662	0.20788	1.79E-02	8.47E-07	4.03E-07	8.14E-07	4.09E-07	1.7880E-02
520334.47	4258343.11	103047.2009	0.29705	0.59599	0.30309	0.65224	1.79E-02	6.97E-07	1.22E-06	7.12E-07	1.28E-06	1.7877E-02
520471.95	4258738	103012.2162	0.27837	0.19848	0.26801	0.20816	1.79E-02	6.54E-07	4.07E-07	6.29E-07	4.10E-07	1.7869E-02
520412.44	4258835.59	102951.565	0.39053	0.19895	0.37471	0.21102	1.79E-02	9.17E-07	4.08E-07	8.80E-07	4.15E-07	1.7859E-02
520121.89	4258844.36	102915.4704	6.22361	0.64937	5.33522	0.60765	1.79E-02	1.46E-05	1.33E-06	1.25E-05	1.20E-06	1.7880E-02
520354.05	4258343.18	102803.3622	0.28167	0.52636	0.28584	0.57331	1.78E-02	6.61E-07	1.08E-06	6.71E-07	1.13E-06	1.7834E-02
520454.18	4258778.28	102766.0557	0.31017	0.19553	0.2987	0.20584	1.78E-02	7.28E-07	4.01E-07	7.01E-07	4.05E-07	1.7827E-02
520324.68	4258343.08	102669.037	0.30477	0.63673	0.31182	0.69817	1.78E-02	7.16E-07	1.31E-06	7.32E-07	1.37E-06	1.7812E-02
520236.52	4258362.81	102668.3307	0.39539	1.28719	0.40697	1.44165	1.78E-02	9.28E-07	2.64E-06	9.55E-07	2.84E-06	1.7815E-02
520107.21	4258828.3	102646.0596	9.16981	0.72505	7.89922	0.66729	1.78E-02	2.15E-05	1.49E-06	1.85E-05	1.31E-06	1.7846E-02
520395.12	4258852.77	102622.6404	0.43079	0.2037	0.41295	0.21596	1.78E-02	1.01E-06	4.18E-07	9.69E-07	4.25E-07	1.7802E-02
520197.17	4258893.1	102577.8239	1.87423	0.38527	1.71993	0.40085	1.78E-02	4.40E-06	7.90E-07	4.04E-06	7.89E-07	1.7802E-02
520466.23	4258403.82	102494.768	0.22011	0.28362	0.21973	0.29916	1.78E-02	5.17E-07	5.76E-07	5.16E-07	5.89E-07	1.7779E-02
520256.59	4258003	102451.8826	1.0755	0.2877	1.01595	0.30841	1.78E-02	2.52E-06	5.90E-07	2.39E-06	6.07E-07	1.7776E-02
520140.53	4258862.04	102449.5091	4.20634	0.56284	3.66819	0.54172	1.78E-02	9.88E-06	1.15E-06	8.61E-06	1.07E-06	1.7790E-02
520365.45	4258872.82	102433.8188	0.50922	0.21442	0.48803	0.22705	1.78E-02	1.20E-06	4.40E-07	1.15E-06	4.47E-07	1.7770E-02
520265.92	4258352.9	102357.4291	0.36024	0.99195	0.37073	1.10107	1.78E-02	8.46E-07	2.03E-06	8.70E-07	2.17E-06	1.7758E-02
520266.5	4258902.98	102331.456	0.99535	0.27706	0.94307	0.29721	1.77E-02	2.34E-06	5.68E-07	2.21E-06	5.85E-07	1.7755E-02
520246.69	4258903.02	102285.0237	1.16641	0.29933	1.098	0.32031	1.77E-02	2.74E-06	6.14E-07	2.58E-06	6.31E-07	1.7747E-02
520363.84	4258343.21	102212.8483	0.27412	0.49638	0.27745	0.53923	1.77E-02	6.44E-07	1.02E-06	6.51E-07	1.06E-06	1.7732E-02
520054.46	4258724.97	102212.1665	5.84044	1.29142	10.27215	1.20498	1.77E-02	1.37E-05	2.65E-06	2.41E-05	2.37E-06	1.7771E-02
520481.25	4258457.95	102067.906	0.22008	0.25294	0.21801	0.2688	1.77E-02	5.17E-07	5.19E-07	5.12E-07	5.29E-07	1.7705E-02
520314.9	4258343.05	102018.4452	0.31246	0.68205	0.32049	0.74915	1.77E-02	7.34E-07	1.40E-06	7.52E-07	1.47E-06	1.7699E-02
520049.93	4258627.98	101877.4904	3.5615	3.85492	5.93579	3.16212	1.77E-02	8.36E-06	7.91E-06	1.39E-05	6.22E-06	1.7707E-02
520276.4	4258902.97	101863.42	0.92367	0.26717	0.8774	0.28653	1.77E-02	2.17E-06	5.48E-07	2.06E-06	5.64E-07	1.7673E-02
520236.79	4258903.03	101795.6751	1.26989	0.312	1.19066	0.33283	1.77E-02	2.98E-06	6.40E-07	2.80E-06	6.55E-07	1.7663E-02
520158.09	4258402.56	101540.4031	0.52226	3.305	0.56041	3.85602	1.76E-02	1.23E-06	6.78E-06	1.32E-06	7.59E-06	1.7629E-02
520325.88	4258892.89	101515.8007	0.65572	0.23245	0.62755	0.2476	1.76E-02	1.54E-06	4.77E-07	1.47E-06	4.87E-07	1.7611E-02
520373.63	4258343.24	101460.076	0.26681	0.46894	0.2693	0.50817	1.76E-02	6.26E-07	9.62E-07	6.32E-07	1.00E-06	1.7601E-02
520047.12	4258646.05	101298.2705	3.6197	2.84111	5.6737	2.46016	1.76E-02	8.50E-06	5.83E-06	1.33E-05	4.84E-06	1.7602E-02
520478.49	4258722.38	101292.2787	0.26744	0.19906	0.25746	0.20883	1.76E-02	6.28E-07	4.08E-07	6.04E-07	4.11E-07	1.7571E-02
520412.75	4258353.36	101230.0018	0.34269	0.37677	0.24249	0.40401	1.76E-02	5.70E-07	7.73E-07	5.69E-07	7.95E-07	1.7561E-02
520305.11	4258343.02	101165.3938	0.32013	0.73251	0.32897	0.80597	1.75E-02	7.52E-07	1.50E-06	7.72E-07	1.59E-06	1.7551E-02
520286.3	4258902.95	101138.7125	0.85974	0.25804	0.81842	0.27654	1.75E-02	2.02E-06	5.29E-07	1.92E-06	5.44E-07	1.7547E-02
520459.98	4258391.14	101047.8738	0.22138	0.29213	0.22161	0.31117	1.75E-02	5.20E-07	5.99E-07	5.20E-07	6.13E-07	1.7529E-02
520482.08	4258480.77	101039.6651	0.22306	0.24739	0.22034	0.2632	1.75E-02	5.24E-07	5.07E-07	5.17E-07	5.18E-07	1.7527E-02
520226.89	4258903.05	100976.7171	1.38884	0.32576	1.29635	0.34593	1.75E-02	3.26E-06	6.68E-07	3.04E-06	6.81E-07	1.7522E-02
520385.24	4258862.79	100771.2254	0.45495	0.20567	0.43594	0.21787	1.75E-02	1.07E-06	4.22E-07	1.02E-06	4.29E-07	1.7481E-02
520432.3	4258363.42	100707.6038	0.2325	0.34044	0.23246	0.36301	1.75E-02	5.46E-07	6.98E-07	5.46E-07	7.15E-07	1.7470E-02
520167.45	4258883.15	100473.3836	2.71315	0.45972	2.43274	0.46111	1.74E-02	6.37E-06	9.43E-07	5.71E-06	9.08E-07	1.7441E-02
520207.13	4258372.72	100415.6138	0.43186	1.73948	0.44851	1.97188	1.74E-02	1.01E-06	3.57E-06	1.05E-06	3.88E-06	1.7426E-02
520050.99	4258716.6	100360.4099	5.04562	1.36055	8.33612	1.26831	1.74E-02	1.18E-05	2.79E-06	1.96E-05	2.50E-06	1.7444E-02
520187.27	4258893.12	100264.0608	2.10211	0.40414	1.91544	0.41571	1.74E-02	4.94E-06	8.29E-07	4.50E-06	8.18E-07	1.7401E-02
520355.57	4258882.84	100166.7392	0.54498	0.21725	0.52207	0.23026	1.74E-02	1.28E-06	4.46E-07	1.23E-06	4.53E-07	1.7377E-02
520187.52	4258382.66	100126.9752	0.46278	2.18714	0.48658	2.5058	1.74E-02	1.09E-06	4.49E-06	1.14E-06	4.93E-06	1.7378E-02
520463.86	4258764.27	100122.8658	0.2941	0.19456	0.28311	0.20441	1.74E-02	6.90E-07	3.99E-07	6.65E-07	4.02E-07	1.7368E-02
520256.13	4258352.87	100102.2724	0.36753	1.08138	0.37802	1.20346	1.74E-02	8.63E-07	2.22E-06	8.87E-07	2.37E-06	1.7369E-02
520295.32	4258342.99	100070.3491	0.32768	0.78871	0.33712	0.8694	1.74E-02	7.69E-07	1.62E-06	7.91E-07	1.71E-06	1.7362E-02
520296.2	4258902.93	100040.4885	0.8014	0.24933	0.76424	0.26689	1.74E-02	1.88E-06	5.11E-07	1.79E-06	5.25E-07	1.7356E-02
520216.99	4258903.07	99766.34423	1.52518	0.34043	1.41652	0.3593	1.73E-02	3.58E-06	6.98E-07	3.33E-06	7.07E-07	1.7312E-02
520335.79	4258892.87	99569.04779	0.61787	0.22577	0.59158	0.24011	1.73E-02	1.45E-06	4.63E-07	1.39E-06	4.73E-07	1.7274E-02
520112.79	4258840.6	99549.78366	7.83442	0.62674	6.70442	0.62417	1.73E-02	1.84E-05	1.38E-06	1.57E-05	1.23E-06	1.7304E-02
520226.74	4258362.78	99446.65237	0.40209	1.42016	0.41463	1.59626	1.72E-02	9.44E-07	2.91E-06	9.73E-07	3.14E-06	1.7257E-02
520158.6	4258879.5	99427.12015	3.08084	0.4851	2.74193	0.48003	1.72E-02	7.23E-06	9.95E-07	6.44E-06	9.45E-07	1.7261E-02
520450.83	4258377.21	99387.2402	0.22394	0.30882	0.22445	0.32853	1.72E-02	5.26E-07	6.33E-07	5.27E-07	6.47E-07	1.7241E-02
520393.2	4258343.3	99321.91859	0.25289	0.42024	0.25381	0.4534	1.72E-02	5.94E-07	8.62E-07	5.96E-07	8.93E-07	1.7230E-02
520088.94	4258810.77	98905.23773	14.80654	0.80001	16.84123	0.73174	1.72E-02	3.48E-05	1.64E-06	3.95E-05	1.44E-06	1.7232E-02
520098.61	4258824.75	98787.58034	11.97909	0.7426	10.65831	0.68011	1.71E-02	2.81E-05	1.52E-06	2.50E-05	1.34E-06	1.7190E-02
520306.1	4258902.92	98708.47935	0.74899	0.24121	0.71527	0.25787	1.71E-02	1.76E-06	4.95E-07	1.68E-06	5.08E-07	1.7125E-02
520285.53	4258342.96	98604.7512	0.33495	0.85228	0.34485	0.94089	1.71E-02	7.86E-07	1.75E-06	8.10E-07	1.85E-06	1.7108E-02
520375.36	4258872.8	98579.24005	0.48174	0.20768	0.46151	0.21984	1.71E-02	1.13E-06	4.26E-07	1.08E-06	4.33E-07	1.7101E-02
520207.09	4258903.08	98325.10969	1.68687	0.35647	1.55776	0.37332	1.71E-02	3.96E-06	7.31E-07	3.66E-06	7.35E-07	1.7063E-02
520047.12	4258636.77	98308.77144	3.40868	3.22763	5.38755	2.73211	1.71E-02	8.00E-06	6.62E-06	1.26E-05	5.38E-06	1.7084E-02
520422.54	4258353.39	98308.45848	0.23607	0.35944	0.23585	0.38431	1.71E-02	5.54E-07	7.37E-07	5.54E-07	7.57E-07	1.7054E-02
520453.3	4258788.66	98245.48509	0.31359	0.19221	0.30178	0.20251	1.70E-02	7.36E-07	3.94E-07	7.08E-07	3.99E-07	1.7042E-02
520149.75	4258875.84	98159.67812	3.54914	0.51159	3.13225	0.4989	1.70E-02	8.33E-06	1.05E-06	7.35E-06	9.82E-07	1.7043E-02
520047.53	4258708.24	98153.1564	4.46991	1.43458	6.94217	1.33547	1.70E-02	1.05E-05	2.94E-06	1.63E-05	2.63E-06	1.7057E-02
520485.03	4258706.76	98123.54788	0.25708	0.19896	0.24758	0.20903	1.70E-02	6.04E-07	4.08E-07	5.81E-07	4.11E-07	1.7021E-02
520167.91	4258392.59	97976.36693	0.49244	2.85066	0.52544	3.30648	1.70E-02	1.16E-06	5.85E-06	1.23E-06	6.51E-06	1.7008E-02
520177.37	4258893.13	97752.05313	2.3831	0.4242	2.15391	0.43042	1.70E-02	5.59E-06	8.70E-07	5.06E-06	8.47E-07	1.6967E-02
520122.59	4258854.64	97660.61767	6.13487	0.61749	5.25412	0.57754	1.69E-02	1.44E-05	1.27E-06	1.23E-05	1.14E-06	1.6968E-02
520246.34	4258352.84	97576.4535	0.37436	1.18341	0.38503	1.32072	1.69E-02	8.79E-07	2.43E-06	9.04E-07	2.60E-06	1.6931E-02
520402.99	4258343.33	97479.05858	0.24611	0.39891	0.24654	0.42928	1.69E-02	5.78E-07	8.18E-07	5.79E-07	8.45E-07	1.6910E-02
520049.89	4258618.28	97427.77614	3.2211	4.48042	5.4233	3.53232	1.69E-02	7.56E-06	9.19E-06	1.27E-05	6.95E-06	1.6935E-02
520316	4258902.9	97054.46901	0.70092	0.23345	0.6701	0.2492	1.68E-02	1.65E-06	4.79E-07	1.57E-06	4.91E-07	1.6838E-02
520275.74	4258342.93	96964.02415	0.34206	0.92293	0.35204	1.02109	1.68E-02	8.03E-07	1.89E-06	8.26E-07	2.01E-06	1.6824E-02
520484.73	4258467.07	96942.34573	0.21905	0.24725	0.2167	0.26279	1.68E-02	5.14E-07	5.07E-07	5.09E-07	5.17E-07	1.6816E-02
520140.9	4258872.19	96884.88333	4.18811	0.53913	3.65181	0.5177	1.68E-02	9.83E-06	1.11E-06	8.57E-06	1.02E-06	1.6825E-02
520256.61	4258913	96780.93946	1.08535	0.28092	1.02462	0.30095	1.68E-02	2.55E-06	5.76E-07	2.41E-06	5.92E-07	1.6792E-02
520059.69	4258569.75	96770.19266	2.12571	12.8306	3.33569	6.85191	1.68E-02	4.99E-06	2.63E-05	7.83E-06	1.35E-05	1.6837E-02
520246.71	4258913.02	96640.07475	1.17725	0.29227	1.10745	0.31237	1.68E-02	2.76E-06	5.99E-07	2.60E-06	6.15E-07	1.6768E-02
520197.19	4258903.1	96583.35762	1.87886	0.37364	1.72392	0.38753	1.68E-02	4.41E-06	7.66E-07	4.05E-06	7.63E-07	1.6762E-02
520266.51	4258912.98	96565.97827	1.00328	0.27035	0.95008	0.28997	1.67E-02	2.36E-06	5.54E-07	2.23E-06	5.71E-07	1.6755E-02
520395.14	4258862.77	96475.16064	0.43306	0.19975	0.41474	0.21159	1.67E-02	1.02E-06	4.10E-07	9.74E-07	4.17E-07	1.6736E-02
520462.63	4258774.79	96469.64031	0.29787	0.19164	0.28667	0.20146	1.67E-02	6.99E-07	3.93E-07	6.73E-07	3.97E-07	1.6734E-02
520365.47	4258882.82	96389.89334	0.51261	0.20991	0.49098	0.22223	1.67E-02	1.20E-06	4.31E-07	1.15E-06	4.37E-07	1.6722E-02
520236.81	4258913.03	96202.75195	1.28187	0.30459	1.201	0.32434	1.67E-02	3.01E-06	6.25E-07	2.82E-06	6.38E-07	1.6693E-02
520429.77	4258828.42	96168.81832	0.35875	0.19166	0.34439	0.20294	1.67E-02	8.42E-07	3.93E-07	8.09E-07	3.99E-07	1.6682E-02
520276.41	4258912.97	96131.87099	0.93106	0.26073	0.88399	0.27971	1.67E-02	2.19E-06	5.35E-07	2.08E-06	5.51E-07	1.6679E-02
520099.14	4258472.38	96100.00321	0.81096	13.82781	0.89932	15.73937	1.67E-02	1.90E-06	2.84E-05	2.11E-06	3.10E-05	1.6731E-02
520459.61	4258380.96	96049.70161	0.21926	0.29533	0.21967	0.31414	1.67E-02	5.15E-07	6.06E-07	5.16E-07	6.18E-07	1.6662E-02
520103.68	4258836.84	96035.98539	10.23108	0.69487	8.8498	0.63807	1.67E-02	2.40E-05	1.43E-06	2.08E-05	1.26E-06	1.6704E-02
520128.66	4258422.47	95988.43063	0.57589	0.74265	0.62063	0.9111	1.66E-02	1.35E-06	1.18E-05	1.46E-06	1.36E-05	1.6677E-02
520197.34	4258372.69	95982.38955	0.4366	1.9531	0.45696	2.22342	1.66E-02	1.02E-06	4.01E-06	1.07E-06	4.38E-06	1.6658E-02
520468.95	4258394.98	95962.84011	0.21646	0.27936	0.21636	0.29751	1.66E-02	5.08E-07	5.73E-07	5.08E-07	5.86E-07	1.6646E-02
520216.95	4258362.75	95908.00982	0.408	1.57452	0.42245	1.77681	1.66E-02	9.58E-07	3.23E-06	9.92E-07	3.50E-06	1.6646E-02
520226.91	4258913.05	95462.97781	1.40215	0.31791	1.3077	0.33681	1.66E-02	3.29E-06	6.52E-07	3.07E-06	6.63E-07	1.6565E-02
520286.31	4258912.95	95452.19103	0.86655	0.25185	0.82453	0.27004	1.66E-02	2.03E-06	5.17E-07	1.94E-06	5.32E-07	1.6561E-02
520325.9	4258902.89	95330.93257	0.65834	0.2264	0.62983	0.24133	1.66E-02	1.55E-06	4.64E-07	1.48E-06	4.75E-07	1.6539E-02
520412.78	4258343.36	95268.7575	0.23951	0.37947	0.23961	0.40725	1.65E-02	5.62E-07	7.78E-07	5.63E-07	8.02E-07	1.6527E-02
520138.48	4258412.5	95164.07803	0.54639	4.68896	0.58872	5.55751	1.65E-02	1.28E-06	9.62E-06	1.38E-06	1.09E-05	1.6529E-02
520118.84	4258432.44	95079.08181	0.60527	7.26911	0.65297	8.84459	1.65E-02	1.42E-06	1.49E-05	1.53E-06	1.74E-05	1.6526E-02
520265.95	4258342.9	95033.395	0.34881	1.00283	0.35877	1.112	1.65E-02	8.19E-07	2.06E-06	8.42E-07	2.19E-06	1.6489E-02
520432.33	4258353.42	94959.85164	0.22968	0.34268	0.22947	0.36555	1.65E-02	5.39E-07	7.03E-07	5.39E-07	7.20E-07	1.6473E-02
520167.47	4258893.15	94939.90425	2.72872	0.44463	2.44473	0.4442	1.65E-02	6.41E-06	9.12E-07	5.74E-06	8.74E-07	1.6481E-02
520090.01	4258821.21	94777.94513	15.57065	0.75393	15.80948	0.69034	1.64E-02	3.66E-05	1.55E-06	3.71E-05	1.36E-06	1.6515E-02
520113.61	4258850.93	94725.20389	7.6777	0.64018	6.55437	0.59239	1.64E-02	1.80E-05	1.31E-06	1.54E-05	1.17E-06	1

520104.64	4258847.23	91579.267	9.91839	0.65803	8.54143	0.60481	1.59E-02	2.33E-05	1.35E-06	2.01E-05	1.19E-06	1.5930E-02
520486.85	4258726.34	91411.10498	0.25897	0.19266	0.2491	0.20187	1.59E-02	6.08E-07	3.95E-07	5.85E-07	3.97E-07	1.5857E-02
520256.63	425892[illegible]	91396.63196	1.09222	0.27398	1.03056	0.2932	1.59E-02	2.56E-06	5.62E-07	2.42E-06	5.77E-07	1.5858E-02
520197.21	425891[illegible]	91393.22591	1.89406	0.36365	1.73707	0.37581	1.59E-02	4.45E-06	7.46E-07	4.08E-06	7.40E-07	1.5862E-02
520109.02	4258442.41	91391.429	0.63348	9.64666	0.68592	11.70149	1.59E-02	1.49E-06	1.98E-05	1.61E-06	2.30E-05	1.5897E-02
520459.32	4258370.83	91338.06871	0.21706	0.29842	0.21748	0.31699	1.58E-02	5.10E-07	6.12E-07	5.11E-07	6.24E-07	1.5844E-02
520488.6	4258472.02	91304.88749	0.21703	0.2424	0.2145	0.25759	1.58E-02	5.10E-07	4.97E-07	5.04E-07	5.07E-07	1.5838E-02
520246.73	4258923.02	91279.6848	1.18471	0.28502	1.11386	0.30415	1.58E-02	2.78E-06	5.85E-07	2.61E-06	5.99E-07	1.5839E-02
520266.53	4258922.98	91214.15312	1.01004	0.26375	0.956	0.28273	1.58E-02	2.37E-06	5.41E-07	2.24E-06	5.57E-07	1.5826E-02
520187.55	4258372.66	91182.60501	0.43965	2.20928	0.46427	2.52605	1.58E-02	1.03E-06	4.53E-06	1.09E-06	4.97E-06	1.5827E-02
520040.59	4258691.51	91174.47535	3.44682	1.60192	4.93618	1.47694	1.58E-02	8.09E-06	3.29E-06	1.16E-05	2.91E-06	1.5840E-02
520429.32	4258838.61	91109.0773	0.36149	0.18826	0.34661	0.19931	1.58E-02	8.49E-07	3.86E-07	8.14E-07	3.92E-07	1.5805E-02
520158.12	4258392.56	91090.32943	0.49052	1.33074	0.5261	3.88495	1.58E-02	1.15E-06	6.83E-06	1.24E-06	7.65E-06	1.5816E-02
520365.49	4258892.82	90964.66024	0.51628	0.20555	0.49419	0.21766	1.58E-02	1.21E-06	4.22E-07	1.16E-06	4.28E-07	1.5781E-02
520236.83	4258923.03	90917.19894	1.29041	0.29701	1.20831	0.31563	1.58E-02	3.03E-06	6.09E-07	2.84E-06	6.21E-07	1.5776E-02
520276.43	4258922.97	90754.39344	0.93672	0.25428	0.88898	0.27276	1.57E-02	2.20E-06	5.22E-07	2.09E-06	5.37E-07	1.5746E-02
520471.08	4258771.29	90502.74106	0.28623	0.18789	0.27533	0.19724	1.57E-02	6.72E-07	3.85E-07	6.46E-07	3.88E-07	1.5699E-02
520246.37	4258342.84	90414.12545	0.36117	1.19492	0.37152	1.33295	1.57E-02	8.48E-07	2.45E-06	8.72E-07	2.62E-06	1.5689E-02
520344.32	4258323.15	90306.55992	0.27797	0.57035	0.28482	0.62162	1.57E-02	6.53E-07	1.17E-06	6.69E-07	1.22E-06	1.5667E-02
520354.11	4258323.18	90305.3834	0.27136	0.53591	0.27733	0.58313	1.57E-02	6.37E-07	1.10E-06	6.51E-07	1.15E-06	1.5667E-02
520226.93	4258923.05	90214.92463	1.41082	0.30982	1.31505	0.32744	1.56E-02	3.31E-06	6.35E-07	3.09E-06	6.45E-07	1.5655E-02
520045.8	4258728.19	90190.3446	4.30977	1.20126	6.51248	1.12936	1.56E-02	1.01E-05	2.46E-06	1.53E-05	2.22E-06	1.5673E-02
520477.93	4258398.82	90168.37894	0.21157	0.26766	0.21111	0.28486	1.56E-02	4.97E-07	5.49E-07	4.96E-07	5.61E-07	1.5641E-02
520482.39	4258410.74	90164.668	0.21104	0.26014	0.20999	0.27677	1.56E-02	4.95E-07	5.34E-07	4.93E-07	5.45E-07	1.5641E-02
520114.34	4258861.23	90160.59153	7.54222	0.60858	6.42382	0.56332	1.56E-02	1.77E-05	1.25E-06	1.51E-05	1.11E-06	1.5673E-02
520325.92	4258912.89	90075.15973	0.66334	0.22124	0.63427	0.23605	1.56E-02	1.56E-06	4.54E-07	1.49E-06	4.65E-07	1.5627E-02
520334.53	4258323.11	90069.56293	0.28457	0.6084	0.29223	0.66411	1.56E-02	6.68E-07	1.25E-06	6.86E-07	1.31E-06	1.5626E-02
520286.33	4258922.95	90048.57052	0.87107	0.24553	0.8235	0.26332	1.56E-02	2.04E-06	5.04E-07	1.95E-06	5.18E-07	1.5624E-02
520490.45	4258717.75	90047.13237	0.25353	0.19258	0.24382	0.20195	1.56E-02	5.95E-07	3.95E-07	5.72E-07	3.98E-07	1.5620E-02
520432.36	4258343.42	89740.79249	0.22688	0.34492	0.22667	0.36818	1.56E-02	5.33E-07	7.07E-07	5.32E-07	7.25E-07	1.5568E-02
520167.49	4258903.15	89736.84271	2.7367	0.42994	2.45142	0.428	1.56E-02	6.42E-06	8.82E-07	5.76E-06	8.43E-07	1.5578E-02
520324.75	4258323.08	89512.95878	0.29103	0.65064	0.29948	0.71103	1.55E-02	6.83E-07	1.33E-06	7.03E-07	1.40E-06	1.5538E-02
520187.31	4258913.12	89485.2593	2.12464	0.38069	1.93382	0.38874	1.55E-02	4.99E-06	7.81E-07	4.54E-06	7.65E-07	1.5532E-02
520217.02	4258923.07	89284.40069	1.55144	0.32363	1.43865	0.33967	1.55E-02	3.64E-06	6.64E-07	3.38E-06	6.69E-07	1.5494E-02
520403.52	4258869.31	89246.1977	0.41708	0.19247	0.39907	0.20369	1.55E-02	9.79E-07	3.95E-07	9.37E-07	4.01E-07	1.5482E-02
520450.6	4258357.08	89231.29642	0.21908	0.31417	0.21921	0.33373	1.55E-02	5.14E-07	6.44E-07	5.15E-07	6.57E-07	1.5479E-02
520385.27	4258882.79	89160.50774	0.45927	0.19732	0.43942	0.2087	1.55E-02	1.08E-06	4.05E-07	1.03E-06	4.11E-07	1.5467E-02
520296.23	4258922.93	89132.05118	0.81224	0.23743	0.77392	0.25444	1.55E-02	1.91E-06	4.87E-07	1.82E-06	5.01E-07	1.5464E-02
520420.49	4258852.28	89090.57918	0.17957	0.1884	0.36345	0.19948	1.55E-02	8.91E-07	3.86E-07	8.53E-07	3.93E-07	1.5455E-02
520059.65	4258560.06	89049.42614	1.77752	13.22401	2.51946	7.13694	1.54E-02	4.17E-06	2.71E-05	5.91E-06	1.40E-05	1.5496E-02
520158.83	4258899.58	88988.80677	3.10129	0.45178	2.75656	0.44394	1.54E-02	7.28E-06	9.27E-07	6.47E-06	8.74E-07	1.5450E-02
520355.6	4258902.84	88837.2435	0.55113	0.2074	0.52743	0.22004	1.54E-02	1.29E-06	4.25E-07	1.24E-06	4.33E-07	1.5412E-02
520167.94	4258382.59	88598.34995	0.46478	2.87664	0.49659	3.3318	1.54E-02	1.09E-06	5.90E-06	1.17E-06	6.56E-06	1.5382E-02
520314.96	4258323.05	88545.19382	0.2972	0.69777	0.30643	0.76297	1.54E-02	6.98E-07	1.43E-06	7.19E-07	1.50E-06	1.5362E-02
520095.67	4258843.53	88450.65162	13.18314	0.67038	11.92996	0.61488	1.53E-02	3.09E-05	1.37E-06	2.80E-05	1.21E-06	1.5403E-02
520216.98	4258352.75	88323.72354	0.39123	1.58806	0.40619	1.79221	1.53E-02	9.18E-07	3.26E-06	9.54E-07	3.53E-06	1.5328E-02
520494.05	4258709.16	88318.59411	0.24823	0.19246	0.23878	0.202	1.53E-02	5.83E-07	3.95E-07	5.61E-07	3.98E-07	1.5320E-02
520085.47	4258429.33	88286.42159	15.98889	0.71469	20.56115	0.65689	1.53E-02	3.75E-05	1.47E-06	4.83E-05	1.29E-06	1.5401E-02
520335.82	4258912.87	88245.9786	0.62385	0.21475	0.59673	0.22877	1.53E-02	1.46E-06	4.40E-07	1.40E-06	4.50E-07	1.5310E-02
520150.18	425889[illegible]	88098.71859	3.56582	0.47428	3.14053	0.45972	1.53E-02	8.37E-06	9.73E-07	7.37E-06	9.05E-07	1.5298E-02
520042.06	4258719.18	88079.22885	3.81068	1.26618	5.52515	1.18798	1.53E-02	8.95E-06	2.60E-06	1.30E-05	2.34E-06	1.5304E-02
520306.13	4258922.92	88011.20841	0.75927	0.22988	0.72444	0.24607	1.53E-02	1.78E-06	4.71E-07	1.70E-06	4.84E-07	1.5270E-02
520207.12	4258923.08	88004.07784	1.71365	0.3382	1.58003	0.35194	1.53E-02	4.02E-06	6.94E-07	3.71E-06	6.93E-07	1.5273E-02
520467.94	4258374.52	87897.41161	0.21265	0.28581	0.21301	0.30356	1.52E-02	4.99E-07	5.86E-07	5.00E-07	5.98E-07	1.5248E-02
520197.37	4258362.69	87841.00388	0.41632	1.97076	0.43748	2.2416	1.52E-02	9.77E-07	4.04E-06	1.03E-06	4.41E-06	1.5246E-02
520305.17	4258323.02	87817.86469	0.30366	0.74945	0.31313	0.82111	1.52E-02	7.13E-07	1.54E-06	7.35E-07	1.62E-06	1.5236E-02
520375.39	4258892.8	87732.05128	0.48809	0.19941	0.46695	0.21097	1.52E-02	1.15E-06	4.09E-07	1.10E-06	4.15E-07	1.5220E-02
520049.81	4258598.89	87562.19374	2.42919	5.83157	3.9813	4.20921	1.52E-02	5.70E-06	1.20E-05	9.35E-06	8.29E-06	1.5223E-02
520236.59	4258342.81	87547.55459	0.36642	1.31245	0.37799	1.46802	1.52E-02	8.60E-07	2.69E-06	8.87E-07	2.89E-06	1.5192E-02
520447.1	4258821.24	87541.10433	0.32898	0.18428	0.31596	0.19464	1.52E-02	7.72E-07	3.78E-07	7.42E-07	3.83E-07	1.5186E-02
520491.66	4258459.42	87478.20388	0.21308	0.24206	0.21086	0.2569	1.52E-02	5.00E-07	4.96E-07	4.95E-07	5.06E-07	1.5175E-02
520177.4	4258913.13	87409.09588	2.40783	0.39855	2.17371	0.40135	1.52E-02	5.65E-06	8.17E-07	5.10E-06	7.90E-07	1.5173E-02
520105.49	4258857.57	87372.27633	9.66473	0.62454	8.28388	0.57452	1.52E-02	2.27E-05	1.28E-06	1.94E-05	1.13E-06	1.5199E-02
520469.94	4258781.77	87327.94343	0.28969	0.18498	0.27853	0.19432	1.51E-02	6.80E-07	3.79E-07	6.54E-07	3.83E-07	1.5149E-02
520437.87	4258835.07	87317.46788	0.34624	0.18461	0.33204	0.19528	1.51E-02	8.13E-07	3.79E-07	7.80E-07	3.84E-07	1.5147E-02
520141.52	4258892.43	87086.77204	4.17626	0.49676	3.63679	0.47496	1.51E-02	9.80E-06	1.02E-06	8.54E-06	9.35E-07	1.5125E-02
520477.17	4258388.48	87075.35925	0.20999	0.27079	0.20991	0.28797	1.51E-02	4.93E-07	5.55E-07	4.93E-07	5.67E-07	1.5105E-02
520459.09	4258360.72	86962.16101	0.21484	0.30114	0.21509	0.3196	1.51E-02	5.04E-07	6.18E-07	5.05E-07	6.29E-07	1.5085E-02
520411.88	4258865.85	86891.71084	0.39885	0.1887	0.38158	0.19969	1.51E-02	9.36E-07	3.87E-07	8.96E-07	3.93E-07	1.5074E-02
520492.07	4258481.14	86835.28691	0.21587	0.23761	0.21301	0.25246	1.51E-02	5.07E-07	4.87E-07	5.00E-07	4.97E-07	1.5060E-02
520295.38	4258322.99	86753.41351	0.30983	0.80705	0.31937	0.88589	1.50E-02	7.27E-07	1.66E-06	7.50E-07	1.74E-06	1.5052E-02
520316.03	4258922.9	86716.32667	0.71144	0.22283	0.67948	0.23821	1.50E-02	1.67E-06	4.57E-07	1.60E-06	4.69E-07	1.5045E-02
520395.17	4258882.77	86698.81126	0.43949	0.19317	0.42076	0.20419	1.50E-02	1.03E-06	3.96E-07	9.88E-07	4.02E-07	1.5040E-02
520197.22	4258923.1	86477.99166	1.90566	0.35362	1.74591	0.36421	1.50E-02	4.47E-06	7.25E-07	4.10E-06	7.17E-07	1.5000E-02
520428.93	4258848.78	86388.47358	0.36403	0.18499	0.34867	0.19577	1.50E-02	8.55E-07	3.79E-07	8.19E-07	3.85E-07	1.4986E-02
520037.12	4258683.15	86133.46727	3.00815	1.69355	4.21178	1.54866	1.50E-02	7.06E-06	3.47E-06	9.89E-06	3.05E-06	1.4994E-02
520497.64	4258700.57	86271.46949	0.2431	0.19251	0.23404	0.20212	1.50E-02	5.71E-07	3.95E-07	5.49E-07	3.98E-07	1.4965E-02
520037.12	4258673.87	86096.63812	2.90821	1.85608	4.08675	1.68053	1.49E-02	6.83E-06	3.81E-06	9.59E-06	3.31E-06	1.4957E-02
520256.65	425893[illegible]	86042.7521	1.09249	0.26659	1.03055	0.28505	1.49E-02	2.56E-06	5.47E-07	2.42E-06	5.61E-07	1.4930E-02
520057.47	4258780.46	86029.12259	7.2075	0.87184	13.11518	0.82308	1.49E-02	1.69E-05	1.79E-06	3.08E-05	1.62E-06	1.4972E-02
520177.76	4258372.63	86025.76706	0.44063	2.52017	0.46895	2.89536	1.49E-02	1.03E-06	5.17E-06	1.10E-06	5.70E-06	1.4934E-02
520246.74	4258933.02	85910.82024	1.18414	0.27722	1.11313	0.29545	1.49E-02	2.78E-06	5.69E-07	2.61E-06	5.82E-07	1.4907E-02
520266.55	4258932.98	85866.65109	1.01048	0.25663	0.95612	0.27498	1.49E-02	2.37E-06	5.26E-07	2.24E-06	5.41E-07	1.4899E-02
520114.98	4258871.48	85837.87886	7.42133	0.57961	6.31078	0.53665	1.49E-02	1.74E-05	1.19E-06	1.48E-05	1.06E-06	1.4923E-02
520365.5	4258902.82	85798.09204	0.51889	0.20095	0.49639	0.21286	1.49E-02	1.22E-06	4.12E-07	1.17E-06	4.19E-07	1.4885E-02
520053.81	4258771.61	85731.45593	0.21284	0.90891	10.19945	0.86073	1.49E-02	1.46E-05	1.86E-06	2.39E-05	1.69E-06	1.4912E-02
520236.84	4258933.03	85622.1762	1.29024	0.28892	1.20801	0.30652	1.49E-02	3.03E-06	5.93E-07	2.84E-06	6.03E-07	1.4858E-02
520285.59	4258322.96	85538.141	0.31585	0.87097	0.3252	0.95849	1.48E-02	7.42E-07	1.79E-06	7.63E-07	1.89E-06	1.4841E-02
520276.45	4258932.97	85443.26966	0.93767	0.24747	0.88956	0.26544	1.48E-02	2.20E-06	5.08E-07	2.09E-06	5.23E-07	1.4829E-02
520038.33	4258710.17	85274.87608	3.35222	1.33676	4.70555	1.24884	1.48E-02	7.87E-06	2.74E-06	1.10E-05	2.46E-06	1.4815E-02
520325.93	4258922.89	85245.59613	0.66805	0.21621	0.63846	0.23081	1.48E-02	1.57E-06	4.43E-07	1.50E-06	4.54E-07	1.4789E-02
520354.14	4258313.18	85182.76945	0.26637	0.54042	0.27281	0.58796	1.48E-02	6.25E-07	1.11E-06	6.40E-07	1.16E-06	1.4778E-02
520050.14	4258762.77	85136.84696	5.39066	0.94867	8.26461	0.90042	1.48E-02	1.27E-05	1.95E-06	1.94E-05	1.77E-06	1.4802E-02
520037.12	425866[illegible].6	85112.04839	2.79532	2.04192	3.94425	1.82776	1.48E-02	6.56E-06	4.19E-06	9.26E-06	3.60E-06	1.4786E-02
520167.5	4258913.15	85079.41046	2.7555	0.41645	2.4657	0.41302	1.48E-02	6.47E-06	8.54E-07	5.79E-06	8.13E-07	1.4771E-02
520460.08	4258805.86	85022.84143	0.30734	0.18211	0.29512	0.19189	1.47E-02	7.22E-07	3.73E-07	6.93E-07	3.78E-07	1.4749E-02
520363.93	4258313.21	85003.97983	0.26019	0.50869	0.26584	0.55255	1.47E-02	6.11E-07	1.04E-06	6.24E-07	1.09E-06	1.4747E-02
520344.35	4258313.15	84955.34521	0.27238	0.57569	0.2797	0.62693	1.47E-02	6.39E-07	1.18E-06	6.57E-07	1.23E-06	1.4739E-02
520226.94	4258933.05	84908.49075	1.40791	0.30099	1.3125	0.31752	1.47E-02	3.31E-06	6.17E-07	3.08E-06	6.25E-07	1.4735E-02
520128.69	4258412.47	84869.28826	0.53388	5.78203	0.57204	6.93622	1.47E-02	1.25E-06	1.19E-05	1.34E-06	1.37E-05	1.4748E-02
520086.7	4258839.83	84846.84843	15.5131	0.67659	18.79702	0.62227	1.47E-02	3.64E-05	1.39E-06	4.41E-05	1.22E-06	1.4799E-02
520483.06	4258759.36	84829.09194	0.26959	0.18473	0.25902	0.19354	1.47E-02	6.33E-07	3.79E-07	6.08E-07	3.81E-07	1.4715E-02
520420.24	4258862.39	84813.92287	0.38247	0.18536	0.36599	0.19612	1.47E-02	8.98E-07	3.80E-07	8.59E-07	3.86E-07	1.4713E-02
520286.35	4258932.95	84772.50759	0.8717	0.23888	0.82879	0.25625	1.47E-02	2.05E-06	4.90E-07	1.95E-06	5.04E-07	1.4708E-02
520187.32	4258923.12	84741.35392	2.13655	0.36982	1.94354	0.37629	1.47E-02	5.02E-06	7.58E-07	4.56E-06	7.41E-07	1.4709E-02
520138.51	4258402.5	84689.81628	0.50906	4.72078	0.54585	5.58806	1.47E-02	1.20E-06	9.68E-06	1.28E-06	1.10E-05	1.4712E-02
520207.19	4258352.72	84675.16876	0.39503	1.7698	0.41307	2.00566	1.47E-02	9.27E-07	3.63E-06	9.70E-07	3.95E-06	1.4696E-02
520096.64	4258853.92	84649.24094	12.79461	0.63582	11.3963	0.58375	1.47E-02	3.00E-05	1.30E-06	2.68E-05	1.15E-06	1.4741E-02
520226.8	4258342.78	84608.7405	0.37117	1.44683	0.38455	1.62425	1.47E-02	8.71E-07	2.97E-06	9.03E-07	3.20E-06	1.4683E-02
520486.59	4258750.92	84584.79065	0.26399	0.18544	0.25367	0.19413	1.47E-02	6.20E-07	3.80E-07	5.96E-07	3.82E-07	1.4673E-02
520334.57	4258313.11	84577.71676	0.27838	0.61442	0.28644	0.66981	1.47E-02	6.54E-07	1.26E-06	6.72E-07	1.32E-06	1.4674E-02
520373.72	4258313.24	84481.01086	0.25395	0.47998	0.25888	0.52032	1.47E-02	5.96E-07	9.84E-07	6.08E-07	1.02E-06	1.4656E-02
520158.45	4258909.41	84423.11546	3.14453	0.43791	2.78975	0.42853	1.46E-02	7.38E-06	8.98E-07	6.55E-06	8.44E-07	1.4658E-02
520385.29	4258892.79	84420.26823	0.46258	0.19364	0.44224	0.20474	1.46E-02	1.09E-06	3.97E-07	1.04E-06	4.03E-07	1.4645E-02
520046.47	4258753.92	84226.81337	4.706	0.99228	6.88273	0.94258	1.46E-02	1.10E-05	2.04E-06	1.62E-05	1.86E-06	1.4640E-02
520217.04	4258933.07	84164.13002	1.55042	0.31456	1.43789	0.32938	1.46E-02	3.64E-06	6.45E-07	3.38E-06	6.48E-07	1.4606E-02
520490.12	4258742.49	84094.04676	0.25851	0.18602	0.24843	0.19465	1.46E-02	6.07E-07	3.82E-07	5.83E-07	3.83E-07	1.4588E-02
520467.58	4258364.35	84072.84981	0.28677	0.20695	0.21095	0.30631	1.46E-02	4.94E-07	5.92E-07	4.95E-07	6.03E-07	1.4584E-02
520324.78	4258313.08	84043.90616	0.28434	0.65718	0.29295	0.71726	1.46E-02	6.68E-07	1.35E-06	6.88E-07	1.41E-06	1.4581E-02
520469	4258792.16	84036.50388	0.29284	0.18196	0.28137	0.19129	1.46E-02	6.87E-07	3.73E-07	6.61E-07	3.77E-07	1.4578E-02
520296.25	4258932.93	83924.57811	0.81299	0.23103	0.77432	0.24769	1.46E-02	1.91E-06	4.74E-07	1.82E-06	4.88E-07	1.4561E-02
520501.24	4258691.98	83912.43596	0.23812	0.19253	0.22946	0.20211	1.46E-02	5.59E-07	3.95E-07	5.39E-07	3.98E-07	1.4556E-02
520486.91	4258402.66	83895.79415	0.20675	0.25673	0.2059	0.27297	1.46E-02	4.85E-07	5.27E-07	4.83E-07	5.37E-07	1.4553E-02
520476.56	4258378.21	83890.01941	0.20826	0.27413	0.20848	0.2911	1.46E-02	4.89E-07	5.62E-07	4.89E-07	5.73E-07	1.4552E-02
520275.8	4258322.93	83879.73668	0.32137	0.94295	0.33071	1.03988	1.45E-02	7.54E-07	1.93E-06	7.76E-07	2.05E-06	1.4554E-02
520355.62	4258912.84	83849.80489	0.55374	0.20256	0.52963	0.21506	1.45E-02	1.30E-06	4.15E-07	1.24E-06	4.23E-07	1.4547E-02
520383.51	4258313.27	83845.36076	0.24786	0.45358	0.25198	0.49083	1.45E-02	5.82E-07	9.30E-07	5.92E-07	9.66E-07	1.4546E-02
520062.79	4258398.98	83784.65051	9.1055	0.78993	17.2231	0.74233	1.45E-02	2.14E-05	1.62E-06	4.04E-05	1.46E-06	1.4597E-02
520118.87	4258422.44	83548.15397	0.55801	7.30821	0.59824	8.88098	1.45E-02	1.31E-06	1.50E-05	1.40E-06	1.75E-05	1.4526E-02
520446.42	4258831.53	83485.86277	0.33184	0.18118	0.31839	0.19143	1.45E-02	7.79E-07	3.72E-07	7.47E-07	3.77E-07	1.4483E-02
520149.41	4258905.68	83439.71275	3.62542	3.18866	4.45927	4.44137	1.45E-02	8.51E-06	9.42E-07	7.49E-06	8.73E-07	1.4490E-02
520187.58	4258362.66	83355.63517	0.41815	2.22831	0.44301	2.54502	1.45E-02	9.82E-07	4.57E-06	1.04E-06	5.01E-06	1.4469E-02
520037.12	4258655.32	83343.36916	2.66772	2.25418	3.78072	1.99134	1.45E-02	6.26E-06	4.62E-06	8.88E-06	3.92E-06	1.4479E-02
520314.99	4258313.05	83342.88378	0.29021	0.70461	0.76989	0.76989	1.45E-02	6.81E-07	1.44E-06	7.02E-07	1.52E-06	1.4460E-02
520493.65	4258734.05	83340.7498	0.25318	0.18641	0.24332	0.19506	1.45E-02	5.94E-07	3.82E-07	5.71E-07	3.84E-07	1.4457E-02
520099.2	4258452.38	83321.50609	0.65953	13.82893	0.72015	15.83704	1.45E-02	1.55E-06	2.84E-05	1.69E-06	3.12E-05	1.4515E-02
520106.23	4258867.87	83315.69847	0.42837	0.59373	0.45927	0.54667	1.45E-02	2.21E-06	1.89E-05	1.22E-06	1.08E-06	1.4494E-02
520495	4258468.18	83231.41901	0.21203	0.23691	0.20952	0.2515	1.44E-02	4.98E-07	4.86E-07	4.92E-07	4.95E-07	1.4438E-02
520455.76	4258817.66	83217.08052	0.31543	0.18071	0.30293	0.19061	1.44E-02	7.41E-07	3.71E-07	7.11E-07	3.75E-07	1.4436E-02
520207.14	4258933.08	83054.71724	1.71329	0.3286	1.58002	0.34105	1.44E-02	4.02E-06	6.74E-07	3.71E-06	6.71E-07	1.4415E-02
520437.38	4258845.28	83034.34485	0.34882	0.18151	0.3342	0.19196	1.44E-02	8.19E-07	3.72E-07	7.85E-07	3.78E-07	1.4404E-02
520393.3	4258313.3	83003.82002	0.24186	0.42934	0.24517	0.46378	1.44E-02	5.68E-07	8.81E-07	5.76E-07	9.13E-07	1.4400E-02
520306.15	4258932.92	82899.00474	0.76019	0.22377	0.72501	0.23967	1.44E-02	1.78E-06	4.59E-07	1.70E-06	4.72E-07	1.4383E-02
520458.9	4258350.62	82855.9088	0.2126	0.30362	0.21261	0.3221	1.44E-02	4.99E-07	6.23E-07	4.99E-07	6.34E-07	1.4373E-02
520375.41	4258902.8	82853.60398	0.49052	0.19513	0.46898	0.20646	1.44E-02	1.15E-06	4.00E-07	1.10E-06	4.06E-07	1.4374E-02
520042.8	4258745.07	82846.17439	4.07594	1.04073	5.84402	0.98707	1.44E-02	9.57E-06	2.13E-06	1.37E-05	1.94E-06	1.4397E-02
520411.74	4258875.91	82803.16042	0.40161	0.18608	0.38461	0.19664	1.44E-02	9.43E-07	3.82E-07	9.03E-07	3.87E-07	1.4364E-02
520177.42	4258923.13	82794.58077	2.41723	0.38651	2.18155	0.38786	1.44E-02	5.67E-06	7.93E-07

520187.34	4258933.12	80126.97819	2.13587	0.35878	1.94382	0.36395	1.39E-02	5.01E-06	7.36E-07	4.56E-06	7.16E-07	1.3909E-02
520109.05	4258432.41	80126.01377	0.58058	9.67626	0.6247	11.73287	1.39E-02	1.36E-06	1.98E-05	1.47E-06	2.31E-05	1.3943E-02
520285.62	4258312.96	80121.11756	0.30683	0.87886	0.31559	0.9667	1.39E-02	7.20E-07	1.80E-06	7.41E-07	1.90E-06	1.3902E-02
520256.23	4258322.87	80043.96576	0.33155	1.11416	0.34147	1.23588	1.39E-02	7.78E-07	2.29E-06	8.02E-07	2.43E-06	1.3890E-02
520344.39	4258303.15	79979.58935	0.2667	0.58118	0.27436	0.63209	1.39E-02	6.26E-07	1.19E-06	6.44E-07	1.24E-06	1.3876E-02
520385.31	4258902.79	79844.22355	0.46486	0.18966	0.44413	0.20051	1.38E-02	1.09E-06	3.89E-07	1.04E-06	3.95E-07	1.3852E-02
520373.75	4258303.24	79827.35624	0.24965	0.48382	0.25515	0.52432	1.38E-02	5.86E-07	9.92E-07	5.99E-07	1.03E-06	1.3849E-02
520039.93	4258628.02	79775.93649	2.41343	3.19592	3.54716	2.66784	1.38E-02	5.67E-06	6.55E-06	8.33E-06	5.25E-06	1.3863E-02
520454.97	4258827.99	79634.16971	0.31831	0.17775	0.30546	0.18757	1.38E-02	7.47E-07	3.65E-07	7.17E-07	3.69E-07	1.3814E-02
520445.83	4258441.78	79624.06708	0.33447	0.17816	0.3206	0.18825	1.38E-02	7.85E-07	3.65E-07	7.53E-07	3.71E-07	1.3813E-02
520217.06	4258943.07	79598.74258	1.55311	0.30621	1.44023	0.31982	1.38E-02	3.65E-06	6.28E-07	3.38E-06	6.30E-07	1.3814E-02
520106.9	4258878.14	79592.53197	9.27436	0.56579	7.88558	0.52127	1.38E-02	2.18E-05	1.16E-06	1.85E-05	1.03E-06	1.3847E-02
520334.6	4258303.11	79571.2515	0.27221	0.62044	0.28043	0.67543	1.38E-02	6.39E-07	1.27E-06	6.58E-07	1.33E-06	1.3805E-02
520485.18	4258381.89	79435.61216	0.20392	0.26292	0.20387	0.27919	1.38E-02	4.79E-07	5.39E-07	4.79E-07	5.50E-07	1.3780E-02
520296.27	4258942.93	79403.39654	0.81626	0.22547	0.77708	0.24181	1.38E-02	1.92E-06	4.62E-07	1.82E-06	4.76E-07	1.3777E-02
520504.24	4258708.75	79354.08959	0.23819	0.1863	0.22894	0.19538	1.38E-02	5.59E-07	3.82E-07	5.37E-07	3.85E-07	1.3765E-02
520149.63	4258915.77	79352.06123	3.6386	0.44297	3.19633	0.4266	1.38E-02	8.54E-06	9.08E-07	7.50E-06	8.40E-07	1.3781E-02
520355.64	4258922.84	79292.56644	0.55628	0.19786	0.53174	0.21024	1.38E-02	1.31E-06	4.06E-07	1.25E-06	4.14E-07	1.3756E-02
520383.54	4258303.27	79269.90217	0.24389	0.45703	0.24865	0.49448	1.37E-02	5.73E-07	9.37E-07	5.84E-07	9.73E-07	1.3752E-02
520122.26	4258894.47	79223.38425	6.21394	0.51791	5.29762	0.48235	1.37E-02	1.46E-05	1.06E-06	1.24E-05	9.50E-07	1.3770E-02
520035.46	4258727.38	79056.73053	3.17942	1.14665	4.3631	1.08125	1.37E-02	7.46E-06	2.35E-06	1.02E-05	2.13E-06	1.3734E-02
520436.96	4258855.46	79034.08975	0.35115	0.1786	0.33628	0.18878	1.37E-02	8.24E-07	3.66E-07	7.89E-07	3.72E-07	1.3710E-02
520324.81	4258303.08	79029.16922	0.27767	0.66362	0.28623	0.72332	1.37E-02	6.52E-07	1.36E-06	6.72E-07	1.42E-06	1.3711E-02
520498.73	4258472.76	78962.63874	0.21011	0.23264	0.20742	0.24691	1.37E-02	4.93E-07	4.77E-07	4.87E-07	4.86E-07	1.3698E-02
520464.43	4258814.07	78957.92413	0.30273	0.17716	0.29053	0.18661	1.37E-02	7.11E-07	3.63E-07	6.82E-07	3.67E-07	1.3697E-02
520275.83	4258312.93	78693.36112	0.31196	0.95034	0.32056	1.04871	1.36E-02	7.32E-07	1.95E-06	7.53E-07	2.06E-06	1.3655E-02
520460.13	4258341.14	78645.5454	0.20967	0.3039	0.20955	0.3223	1.36E-02	4.92E-07	6.23E-07	4.92E-07	6.34E-07	1.3643E-02
520207.16	4258943.08	78627.4054	1.71736	0.31979	1.58363	0.33095	1.36E-02	4.03E-06	6.56E-07	3.72E-06	6.51E-07	1.3647E-02
520177.79	4258362.63	78607.96467	0.418	2.54047	0.44545	2.9151	1.36E-02	9.81E-07	5.21E-06	1.05E-06	5.74E-06	1.3647E-02
520422.66	4258313.39	78547.58632	0.22426	0.36824	0.22566	0.3951	1.36E-02	5.26E-07	7.55E-07	5.30E-07	7.78E-07	1.3626E-02
520050.47	4258787.67	78493.0757	5.58704	0.80977	8.52941	0.77145	1.36E-02	1.31E-05	1.66E-06	2.00E-05	1.52E-06	1.3651E-02
520393.33	4258303.3	78478.34033	0.23816	0.43252	0.24219	0.46715	1.36E-02	5.59E-07	8.87E-07	5.69E-07	9.20E-07	1.3615E-02
520306.17	4258942.92	78431.78803	0.76306	0.21838	0.72739	0.234	1.36E-02	1.79E-06	4.48E-07	1.71E-06	4.61E-07	1.3608E-02
520375.42	4258912.8	78394.92152	0.49293	0.19092	0.47098	0.20209	1.36E-02	1.16E-06	3.92E-07	1.11E-06	3.98E-07	1.3600E-02
520177.44	4258933.13	78330.79093	2.41362	0.37444	2.17996	0.37465	1.36E-02	5.67E-06	7.68E-07	5.12E-06	7.37E-07	1.3598E-02
520315.02	4258303.05	78316.24048	0.28301	0.71123	0.2917	0.77638	1.36E-02	6.64E-07	1.46E-06	6.85E-07	1.53E-06	1.3588E-02
520140.68	4258912.07	78280.52614	4.25323	0.4621	3.69915	0.43945	1.36E-02	9.99E-06	9.48E-07	8.68E-06	8.65E-07	1.3598E-02
520412.58	4258885.57	78250.13456	0.40134	0.18236	0.38438	0.19252	1.36E-02	9.42E-07	3.74E-07	9.02E-07	3.79E-07	1.3575E-02
520088.74	4258860.65	78206.10544	16.02295	0.60987	16.37517	0.56171	1.36E-02	3.76E-05	1.25E-06	3.84E-05	1.11E-06	1.3643E-02
520207.22	4258342.72	78147.29737	0.37809	1.78474	0.39683	2.02086	1.36E-02	8.88E-07	3.66E-06	9.32E-07	3.98E-06	1.3564E-02
520046.85	4258778.96	78054.39662	4.901	0.84193	7.12507	0.8038	1.35E-02	1.15E-05	1.73E-06	1.67E-05	1.58E-06	1.3570E-02
520246.44	4258322.84	77964.37974	0.33621	1.21648	0.34606	1.35504	1.35E-02	7.89E-07	2.49E-06	8.15E-07	2.67E-06	1.3529E-02
520037.12	4258636.77	77919.31872	2.36049	2.7619	3.37405	2.36154	1.35E-02	5.54E-06	5.66E-06	7.92E-06	4.65E-06	1.3539E-02
520428.3	4258869.05	77886.73301	0.36857	0.17885	0.3525	0.18903	1.35E-02	8.65E-07	3.67E-07	8.28E-07	3.72E-07	1.3512E-02
520475.66	4258357.8	77565.92053	0.20456	0.27989	0.20479	0.29645	1.35E-02	4.80E-07	4.81E-07	5.74E-07	5.84E-07	1.3456E-02
520395.21	4258902.77	77500.39846	0.44325	0.18545	0.42372	0.19583	1.34E-02	1.04E-06	3.80E-07	9.95E-07	3.85E-07	1.3445E-02
520197.26	4258943.1	77485.29514	1.91419	0.33419	1.7537	0.34208	1.34E-02	4.49E-06	6.85E-07	4.12E-06	6.73E-07	1.3449E-02
520305.23	4258303.02	77479.08522	0.28826	0.76367	0.29683	0.83537	1.34E-02	6.77E-07	1.57E-06	6.97E-07	1.64E-06	1.3443E-02
520507.78	4258700.32	77468.08167	0.23346	0.18628	0.22457	0.19541	1.34E-02	5.48E-07	3.82E-07	5.27E-07	3.85E-07	1.3438E-02
520098.24	4258874.57	77417.46248	12.15308	0.57499	10.5781	0.52892	1.34E-02	2.85E-05	1.18E-06	2.48E-05	1.04E-06	1.3483E-02
520403.12	4258303.33	77411.59075	0.23246	0.41009	0.23581	0.44206	1.34E-02	5.46E-07	8.41E-07	5.54E-07	8.70E-07	1.3429E-02
520030.86	4258692.16	77403.4986	2.57417	1.49019	3.46039	1.37293	1.34E-02	6.04E-06	3.06E-06	8.12E-06	2.70E-06	1.3445E-02
520495.89	4258406.5	77380.79645	0.20196	0.24645	0.20076	0.26172	1.34E-02	4.74E-07	5.05E-07	4.71E-07	5.15E-07	1.3423E-02
520043.24	4258770.25	77368.64241	4.32457	0.87654	6.06921	0.8378	1.34E-02	1.02E-05	1.80E-06	1.42E-05	1.65E-06	1.3447E-02
520113.21	4258880.74	77365.35578	7.808	0.53266	6.60339	0.49243	1.34E-02	1.83E-05	1.09E-06	1.55E-05	9.69E-07	1.3455E-02
520493.54	4258758.26	77224.65896	0.25772	0.17913	0.24735	0.18743	1.34E-02	6.05E-07	3.67E-07	5.81E-07	3.69E-07	1.3396E-02
520316.07	4258942.9	77222.23292	0.71416	0.21161	0.68139	0.22648	1.34E-02	1.68E-06	4.34E-07	1.60E-06	4.46E-07	1.3398E-02
520256.68	4258953	77145.54208	1.10197	0.25412	1.03864	0.27095	1.34E-02	2.59E-06	5.21E-07	2.44E-06	5.33E-07	1.3387E-02
520266.58	4258952.98	77040.60969	1.02017	0.24479	0.96443	0.26176	1.34E-02	2.40E-06	5.02E-07	2.26E-06	5.15E-07	1.3368E-02
520246.78	4258953.02	77033.96563	1.19408	0.26413	1.1216	0.2805	1.34E-02	2.80E-06	5.42E-07	2.63E-06	5.52E-07	1.3368E-02
520266.05	4258312.9	76944.84649	0.31663	1.03088	0.32552	1.1411	1.34E-02	7.43E-07	2.11E-06	7.64E-07	2.25E-06	1.3352E-02
520498.55	4258417.66	76927.8609	0.20218	0.24199	0.2006	0.25678	1.33E-02	4.75E-07	4.96E-07	4.71E-07	5.05E-07	1.3345E-02
520484.55	4258371.61	76913.90397	0.2023	0.26598	0.20249	0.28205	1.33E-02	4.75E-07	5.46E-07	4.75E-07	5.55E-07	1.3342E-02
520497.01	4258749.96	76854.22454	0.25258	0.17974	0.24242	0.18795	1.33E-02	5.93E-07	3.69E-07	5.69E-07	3.70E-07	1.3332E-02
520365.54	4258922.82	76842.902	0.52433	0.19216	0.50096	0.20386	1.33E-02	1.23E-06	3.94E-07	1.18E-06	4.01E-07	1.3331E-02
520236.88	4258953.03	76756.58558	1.2998	0.27496	1.21615	0.29049	1.33E-02	3.05E-06	5.64E-07	2.86E-06	5.72E-07	1.3320E-02
520055.61	4258807.01	76755.09214	6.85081	0.7368	11.62339	0.6997	1.33E-02	1.61E-05	1.51E-06	2.73E-05	1.38E-06	1.3359E-02
520276.48	4258952.97	76682.1285	0.94657	0.23605	0.89719	0.2529	1.33E-02	2.22E-06	4.84E-07	2.11E-06	4.98E-07	1.3305E-02
520049.73	4258579.49	76635.26388	1.80328	6.83525	2.68075	4.70097	1.33E-02	4.23E-06	1.40E-05	6.29E-06	9.25E-06	1.3326E-02
520476.32	4258799.14	76598.81114	0.28475	0.17575	0.27333	0.18465	1.33E-02	6.69E-07	3.60E-07	6.42E-07	3.63E-07	1.3288E-02
520187.61	4258352.66	76567.33172	0.39821	2.24465	0.42266	2.56378	1.33E-02	9.35E-07	4.60E-06	9.92E-07	5.05E-06	1.3292E-02
520432.45	4258313.42	76546.89046	0.21865	0.35085	0.21953	0.37555	1.33E-02	5.13E-07	7.20E-07	5.15E-07	7.39E-07	1.3279E-02
520031.79	4258718.53	76520.60235	2.82848	1.20472	3.79988	1.13079	1.33E-02	6.64E-06	2.47E-06	8.92E-06	2.23E-06	1.3292E-02
520167.54	4258933.15	76446.35243	2.76438	0.39035	2.47459	0.38475	1.33E-02	6.49E-06	8.01E-07	5.81E-06	7.57E-07	1.3273E-02
520039.63	4258761.54	76401.44978	3.83276	0.91431	5.24334	0.87365	1.33E-02	9.00E-06	1.88E-06	1.23E-05	1.72E-06	1.3276E-02
520469.11	4258344.98	76399.46786	0.20551	0.29094	0.20546	0.30814	1.33E-02	4.82E-07	5.97E-07	4.82E-07	6.07E-07	1.3253E-02
520295.44	4258302.99	76388.51946	0.29324	0.82185	0.30166	0.90105	1.32E-02	6.88E-07	1.69E-06	7.08E-07	1.77E-06	1.3254E-02
520494.72	4258395.99	76276.86134	0.2009	0.24965	0.20013	0.26514	1.32E-02	4.72E-07	5.12E-07	4.70E-07	5.22E-07	1.3232E-02
520226.98	4258953.05	76237.01047	1.42038	0.28643	1.3232	0.30069	1.32E-02	3.33E-06	5.87E-07	3.11E-06	5.92E-07	1.3231E-02
520454.28	4258838.28	76180.19624	0.32097	0.17484	0.30774	0.18455	1.32E-02	7.54E-07	3.59E-07	7.22E-07	3.63E-07	1.3215E-02
520412.91	4258303.36	76172.2929	0.22689	0.38932	0.22953	0.4189	1.32E-02	5.33E-07	7.98E-07	5.39E-07	8.25E-07	1.3214E-02
520286.38	4258952.95	76092.47681	0.88012	0.22789	0.83602	0.2444	1.32E-02	2.07E-06	4.67E-07	1.96E-06	4.81E-07	1.3203E-02
520138.54	4258392.5	76027.56458	0.47575	4.7484	0.50733	5.62339	1.32E-02	1.12E-06	9.74E-06	1.19E-06	1.11E-05	1.3210E-02
520325.97	4258942.89	76017.28085	0.67117	0.20558	0.64071	0.21975	1.32E-02	1.58E-06	4.22E-07	1.50E-06	4.33E-07	1.3189E-02
520158.68	4258929.5	76001.6616	3.14859	0.40883	2.79418	0.3979	1.32E-02	7.39E-06	8.38E-07	6.56E-06	7.83E-07	1.3198E-02
520403.81	4258899.21	75992.59783	0.42272	0.18223	0.40427	0.19233	1.32E-02	9.92E-07	3.74E-07	9.46E-07	3.79E-07	1.3183E-02
520187.36	4258943.12	75973.73844	2.14094	0.34858	1.94853	0.35246	1.32E-02	5.03E-06	7.15E-07	4.57E-06	6.94E-07	1.3188E-02
520445.32	4258852	75969.32815	0.33688	0.17524	0.32266	0.18512	1.32E-02	7.91E-07	3.59E-07	7.58E-07	3.64E-07	1.3179E-02
520501.93	4258460.52	75951.76887	0.20639	0.23303	0.20399	0.24597	1.32E-02	4.85E-07	4.76E-07	4.79E-07	4.84E-07	1.3175E-02
520421.28	4258881.97	75911.09358	0.3838	0.17823	0.36659	0.18829	1.32E-02	9.01E-07	3.66E-07	8.61E-07	3.71E-07	1.3169E-02
520463.52	4258824.45	75831.00993	0.3056	0.1744	0.29321	0.1838	1.32E-02	7.17E-07	3.58E-07	6.88E-07	3.62E-07	1.3155E-02
520363.99	4258293.21	75819.93839	0.2507	0.5175	0.25727	0.56129	1.32E-02	5.89E-07	1.06E-06	6.04E-07	1.10E-06	1.3154E-02
520039.89	4258618.32	75816.89227	2.18261	3.55246	3.20466	2.89523	1.32E-02	5.12E-06	7.29E-06	7.52E-06	5.70E-06	1.3176E-02
520354.21	4258293.18	75763.00651	0.25594	0.55038	0.26316	0.59747	1.31E-02	6.01E-07	1.13E-06	6.18E-07	1.18E-06	1.3144E-02
520128.72	4258402.47	75722.37547	0.49649	5.81651	0.52906	6.95403	1.31E-02	1.17E-06	1.19E-05	1.24E-06	1.37E-05	1.3162E-02
520385.32	4258912.79	75586.71947	0.46683	0.18565	0.44572	0.19628	1.31E-02	1.10E-06	3.81E-07	1.05E-06	3.86E-07	1.3113E-02
520217.07	4258953.07	75556.66473	1.56182	0.29877	1.44772	0.31117	1.31E-02	3.67E-06	6.13E-07	3.40E-06	6.13E-07	1.3113E-02
520502.07	4258481.52	75536.02711	0.20897	0.22825	0.20593	0.24224	1.31E-02	4.91E-07	4.68E-07	4.83E-07	4.77E-07	1.3103E-02
520373.78	4258293.24	75528.79499	0.24528	0.4878	0.25126	0.5283	1.31E-02	5.76E-07	1.00E-06	5.90E-07	1.04E-06	1.3103E-02
520503.97	4258733.34	75469.4977	0.2426	0.18056	0.2329	0.18881	1.31E-02	5.70E-07	3.70E-07	5.47E-07	3.72E-07	1.3092E-02
520344.42	4258293.15	75420.53629	0.26102	0.58667	0.26884	0.63718	1.31E-02	6.13E-07	1.20E-06	6.31E-07	1.25E-06	1.3085E-02
520236.65	4258322.81	75401.00747	0.33995	1.13482	0.35255	1.49105	1.31E-02	7.98E-07	2.74E-06	8.28E-07	2.94E-06	1.3085E-02
520149.83	4258925.84	75366.93052	3.63076	0.42717	3.19091	0.41056	1.31E-02	8.52E-06	8.76E-07	7.49E-06	8.08E-07	1.3090E-02
520511.31	4258691.88	75365.9069	0.22891	0.18619	0.22034	0.19527	1.31E-02	5.37E-07	3.82E-07	5.17E-07	3.84E-07	1.3074E-02
520296.28	4258952.93	75338.84159	0.82056	0.22038	0.78079	0.23637	1.31E-02	1.93E-06	4.52E-07	1.83E-06	4.65E-07	1.3072E-02
520104.16	4258887	75300.2271	10.10179	0.54366	8.57809	0.50072	1.31E-02	2.37E-05	1.12E-06	2.01E-05	9.86E-07	1.3106E-02
520058.16	4258818.05	75272.16268	7.62198	0.69903	14.115	0.66257	1.31E-02	1.79E-05	1.43E-06	3.31E-05	1.30E-06	1.3109E-02
520285.65	4258302.96	75156.19859	0.29805	0.88627	0.30631	0.9745	1.30E-02	7.00E-07	1.82E-06	7.19E-07	1.92E-06	1.3041E-02
520485.42	4258785.36	75101.85031	0.27145	0.17541	0.26062	0.1839	1.30E-02	6.37E-07	3.60E-07	6.12E-07	3.62E-07	1.3028E-02
520355.65	4258932.84	75066.0684	0.55847	0.19327	0.53347	0.20553	1.30E-02	1.31E-06	3.96E-07	1.25E-06	4.05E-07	1.3023E-02
520383.57	4258293.27	75060.64076	0.23987	0.46059	0.24518	0.49812	1.30E-02	5.63E-07	9.45E-07	5.76E-07	9.81E-07	1.3022E-02
520036.02	4258752.83	75050.24888	3.38228	0.95608	4.58254	0.91135	1.30E-02	7.94E-06	1.96E-06	1.08E-05	1.79E-06	1.3040E-02
520089.59	4258871	75039.22448	15.72186	0.58037	15.50529	0.535	1.30E-02	3.69E-05	1.19E-06	3.64E-05	1.05E-06	1.3091E-02
520502.59	4258436.39	75020.34348	0.20256	0.23519	0.20055	0.24923	1.30E-02	4.76E-07	4.82E-07	4.71E-07	4.91E-07	1.3014E-02
520334.63	4258293.11	75009.00662	0.2661	0.6263	0.27426	0.68091	1.30E-02	6.25E-07	1.28E-06	6.44E-07	1.34E-06	1.3014E-02
520256.26	4258312.87	74969.22689	0.32091	1.12196	0.33059	1.24591	1.30E-02	7.53E-07	2.30E-06	7.76E-07	2.45E-06	1.3009E-02
520473.09	4258810.48	74861.36577	0.29072	0.17375	0.27888	0.18276	1.30E-02	6.83E-07	3.56E-07	6.55E-07	3.60E-07	1.2986E-02
520158.18	4258372.56	74757.83843	0.43497	1.38278	0.46459	1.9306	1.30E-02	1.02E-06	6.94E-06	1.09E-06	7.74E-06	1.2988E-02
520493.79	4258385.58	74689.22515	0.19962	0.25255	0.19925	0.26809	1.30E-02	4.69E-07	5.18E-07	4.68E-07	5.28E-07	1.2956E-02
520207.17	4258953.08	74642.16494	1.72594	0.31171	1.591	0.32161	1.29E-02	4.05E-06	6.39E-07	3.74E-06	6.33E-07	1.2955E-02
520422.69	4258303.39	74633.91322	0.22138	0.37028	0.2234	0.39757	1.29E-02	5.20E-07	7.59E-07	5.24E-07	7.83E-07	1.2947E-02
520140.98	4258922.19	74510.57663	4.24523	0.44483	3.69181	0.42242	1.29E-02	9.97E-06	9.12E-07	8.67E-06	8.32E-07	1.2944E-02
520197.43	4258342.69	74468.70069	0.37953	2.0021	0.40128	2.27492	1.29E-02	8.91E-07	4.11E-06	9.42E-07	4.48E-06	1.2927E-02
520324.84	4258293.08	74429.73358	0.27106	0.66986	0.27939	0.72918	1.29E-02	6.36E-07	1.37E-06	6.56E-07	1.44E-06	1.2914E-02
520507.45	4258725.04	74424.95008	0.23785	0.18059	0.22832	0.18898	1.29E-02	5.58E-07	3.70E-07	5.36E-07	3.72E-07	1.2912E-02
520306.18	4258952.92	74410.60542	0.76677	0.21342	0.73054	0.22876	1.29E-02	1.80E-06	4.38E-07	1.72E-06	4.50E-07	1.2911E-02
520393.36	4258293.3	74400.34664	0.23448	0.43564	0.23909	0.47045	1.29E-02	5.50E-07	8.93E-07	5.61E-07	9.26E-07	1.2907E-02
520118.9	4258412.44	74368.84836	0.51686	7.34987	0.55101	8.9076	1.29E-02	1.21E-06	1.51E-05	1.29E-06	1.75E-05	1.2934E-02
520177.45	4258943.13	74363.35587	2.42152	0.36349	2.18704	0.36251	1.29E-02	5.68E-06	7.45E-07	5.13E-06	7.14E-07	1.2910E-02
520484.04	4258361.38	74329.02332	0.2006	0.2688	0.20083	0.28465	1.29E-02	4.71E-07	5.51E-07	4.71E-07	5.60E-07	1.2894E-02
520375.44	4258922.8	74286.04518	0.49518	0.18676	0.47282	0.19781	1.29E-02	1.16E-06	3.83E-07	1.11E-06	3.89E-07	1.2888E-02
520412.42	4258895.64	74253.06182	0.40336	0.17899	0.38603	0.18884	1.29E-02	9.47E-07	3.67E-07	9.06E-07	3.72E-07	1.2881E-02
520442.24	4258313.45	74208.60134	0.21313	0.33489	0.21363	0.35755	1.29E-02	5.00E-07	6.87E-07	5.02E-07	7.04E-07	1.2874E-02
520099.23	4258442.38	74145.44306	0.60121	13.83618	0.65228	15.87986	1.29E-02	1.41E-06	2.84E-05	1.53E-06	3.13E-05	1.2923E-02
520113.85	4258901	73741.63813	7.63126	0.50878	6.47059	0.47072	1.28E-02	1.79E-05	1.04E-06	1.52E-05	9.27E-07	1.2825E-02
520315.05	4258293.05	73707.98484	0.27592	0.71775	0.28422	0.78262	1.28E-02	6.48E-07	1.47E-06	6.67E-07	1.54E-06	1.2789E-02
520275.87	4258302.93	73683.33507	0.30253	0.9582	0.31091	1.05683	1.28E-02	7.10E-07	1.97E-06	7.30E-07	2.08E-06	1.2784E-02
520478.09	4258348.82	73637.53636	0.20134	0.27882	0.20144	0.29499	1.28E-02	4.73E-07	5.72E-07	4.73E-07	5.81E-07	1.2774E-02
520197.27	4258953.1	73566.49119	1.92181	0.32535	1.76036	0.33197	1.28E-02	4.51E-06	6.67E-07	4.13E-06	6.53E-07	1.2770E-02
520168	4258362.6	73564.39921	0.41557	2.92447	0.44361	3.3734	1.28E-02	9.76E-07	6.00E-06	1.04E-06	6.64E-06	1.2774E-02
520429.98	4258878.37	73497.89285	0.36703	0.17482	0.35059	0.18467	1.27E-02	8.62E-07	3.59E-07	8.23E-07	3.64E-07	1.2750E-02
520403.15	4258293.33	73454.41056	0.22907	0.41288	0.23304	0.44507	1.27E-02	5.38E-07	8.47E-07	5.47E-07	8.76E-07	1.2743E-02
520395.22	4258912.77	73444.12269	0.44498	0.18165	0.42512	0.19179	1.27E-02	1.04E-06	3.73E-07	9.98E-07	3.78E-07	1.2741E-02
520316.08	4258952.9	73443.53345	0.7191	0.20712	0.68573	0.22177	1.27E-02	1.69E-06	4.25E-07	1.61E-06	4.37E-07	1.2743E-02
520028.13	4258709.69	73429.87436	2.51027	1.2658	3.31777	1.18093	1.27E-02	5.89E-06	2.60E-06	7.79E-06	2.32E-06	1.2755E-02
520095.11	4258883.27	73247.94411	13.41912	0.55083	11.92286	0.50742	1.27E-02	3.15E-05	1.13E-06	2.80E-05	9.99E-07	1.2766E-02
520032.4	4258744.12	73238.47406	2.97135	1.00074	4.00913	0.94888	1.27E-02	6.98E-06	2.05E-06	9.41E-06	1.87E-06	1.2723E-02
520450.96	4258317.18	73194.4279	0.20922	0.32099	0.20931	0.3418	1.27E-02	4.91E-07	6.58E-07	4.91E-07	6.73

520028.79	4258735.41	71417.85438	2.69044	1.04649	3.55652	0.99022	1.24E-02	6.32E-06	2.15E-06	8.35E-06	1.95E-06	1.2406E-02
520039.88	4258786.27	71365.23448	3.97141	0.78326	5.39742	0.75236	1.24E-02	9.32E-06	1.61E-06	1.27E-05	1.48E-06	1.2403E-02
520296.3	4258962.93	71292.11591	0.82087	0.2149	0.78068	0.23051	1.24E-02	1.93E-06	4.41E-07	1.83E-06	4.54E-07	1.2370E-02
520344.45	4258283.15	71251.34477	0.25538	0.59202	0.26316	0.64215	1.24E-02	6.00E-07	1.21E-06	6.18E-07	1.26E-06	1.2362E-02
520383.6	4258283.27	71188.49988	0.23583	0.46421	0.24156	0.50172	1.23E-02	5.54E-07	9.52E-07	5.67E-07	9.88E-07	1.2350E-02
520109.08	4258422.41	71182.74741	0.53535	9.71718	0.57288	11.77283	1.23E-02	1.26E-06	1.99E-05	1.34E-06	2.32E-05	1.2392E-02
520355.67	4258942.84	71151.98925	0.56033	0.18881	0.53486	0.20094	1.23E-02	1.32E-06	3.87E-07	1.26E-06	3.96E-07	1.2344E-02
520504.86	4258410.35	71016.76731	0.19731	0.2372	0.19582	0.25149	1.23E-02	4.63E-07	4.86E-07	4.60E-07	4.95E-07	1.2319E-02
520422.73	4258293.39	70985.39176	0.21847	0.37247	0.22113	0.40007	1.23E-02	5.13E-07	7.64E-07	5.19E-07	7.88E-07	1.2315E-02
520438.67	4258874.77	70949.3572	0.35128	0.17157	0.33564	0.18117	1.23E-02	8.25E-07	3.52E-07	7.88E-07	3.57E-07	1.2308E-02
520497.07	4258773.76	70942.08348	0.25654	0.17282	0.24614	0.18083	1.23E-02	6.02E-07	3.54E-07	5.78E-07	3.56E-07	1.2306E-02
520481.76	4258806.89	70936.74089	0.27935	0.17047	0.26788	0.17905	1.23E-02	6.56E-07	3.50E-07	6.29E-07	3.52E-07	1.2306E-02
520141.25	4258932.29	70854.49252	0.41801	0.4283	1.67377	0.40626	1.23E-02	9.90E-06	8.78E-07	8.62E-06	8.00E-07	1.2310E-02
520049.05	4258814.29	70850.9085	5.44229	0.69011	8.0621	0.66066	1.23E-02	1.28E-05	1.42E-06	1.89E-05	1.30E-06	1.2323E-02
520086.06	4258879.53	70828.60964	14.04818	0.5539	18.67299	0.51233	1.23E-02	3.30E-05	1.14E-06	4.38E-05	1.01E-06	1.2364E-02
520334.66	4258283.11	70803.91405	0.26002	0.63198	0.26798	0.68622	1.23E-02	6.10E-07	1.30E-06	6.29E-07	1.35E-06	1.2285E-02
520492.42	4258364.97	70802.12089	0.19666	0.25839	0.19682	0.27361	1.23E-02	4.62E-07	5.30E-07	4.62E-07	5.39E-07	1.2282E-02
520177.47	4258953.13	70790.48061	2.43639	0.35333	2.19944	0.35121	1.23E-02	5.72E-06	7.25E-07	5.16E-06	6.91E-07	1.2291E-02
520049.69	4258569.8	70769.13705	1.56866	7.16762	2.19599	4.91445	1.23E-02	3.68E-06	1.47E-05	5.16E-06	9.67E-06	1.2308E-02
520442.27	4258303.45	70760.31357	0.21063	0.33652	0.21162	0.35964	1.23E-02	4.94E-07	6.90E-07	4.97E-07	7.08E-07	1.2275E-02
520477.57	4258338.58	70748.22631	0.19945	0.28169	0.19943	0.29778	1.23E-02	4.68E-07	5.78E-07	4.68E-07	5.86E-07	1.2273E-02
520207.19	4258963.08	70709.51854	1.72329	0.30319	1.58913	0.31201	1.23E-02	4.05E-06	6.22E-07	3.73E-06	6.14E-07	1.2273E-02
520503.5	4258399.75	70657.41896	0.19644	0.24022	0.19533	0.25481	1.23E-02	4.61E-07	4.93E-07	4.59E-07	5.02E-07	1.2257E-02
520036.32	4258777.68	70630.14412	3.55422	0.81389	4.72927	0.78179	1.23E-02	8.34E-06	1.67E-06	1.11E-05	1.54E-06	1.2273E-02
520393.39	4258283.3	70602.1046	0.23075	0.43893	0.23586	0.47375	1.22E-02	5.42E-07	9.00E-07	5.54E-07	9.33E-07	1.2249E-02
520187.64	4258342.66	70569.30035	0.3794	2.2621	0.40326	2.5799	1.22E-02	8.91E-07	4.64E-06	9.47E-07	5.08E-06	1.2251E-02
520285.69	4258292.96	70543.19626	0.28944	0.8934	0.29744	0.98178	1.22E-02	6.80E-07	1.83E-06	6.98E-07	1.93E-06	1.2241E-02
520412.27	4258905.71	70518.01334	0.40546	0.17557	0.38753	0.18515	1.22E-02	9.52E-07	3.60E-07	9.10E-07	3.64E-07	1.2234E-02
520503.94	4258757.36	70504.66167	0.24671	0.17388	0.23861	0.18171	1.22E-02	5.79E-07	3.57E-07	5.55E-07	3.58E-07	1.2231E-02
520487.07	4258352.66	70503.46663	0.19725	0.26705	0.1974	0.28242	1.22E-02	4.63E-07	5.48E-07	4.63E-07	5.56E-07	1.2231E-02
520306.2	4258962.92	70462.66968	0.76752	0.20818	0.73083	0.22323	1.22E-02	1.80E-06	4.27E-07	1.72E-06	4.39E-07	1.2226E-02
520236.68	4258312.81	70433.71435	0.32793	1.34388	0.34089	1.50222	1.22E-02	7.70E-07	2.76E-06	8.00E-07	2.96E-06	1.2224E-02
520114.42	4258911.23	70403.41389	7.50828	0.48691	6.36939	0.45075	1.22E-02	1.76E-05	9.99E-07	1.50E-05	8.87E-07	1.2246E-02
520375.46	4258932.8	70383.8913	0.49667	0.18251	0.47934	0.19344	1.22E-02	1.17E-06	3.74E-07	1.11E-06	3.81E-07	1.2211E-02
520324.87	4258283.08	70237.42513	0.26459	0.67574	0.27253	0.73485	1.22E-02	6.21E-07	1.39E-06	6.40E-07	1.45E-06	1.2186E-02
520256.29	4258302.87	70094.33392	0.31038	1.1305	0.32038	1.25498	1.22E-02	7.29E-07	2.32E-06	7.52E-07	2.47E-06	1.2164E-02
520095.96	4258893.61	70073.95213	13.03243	0.52549	11.43155	0.48454	1.22E-02	3.06E-05	1.08E-06	2.68E-05	9.54E-07	1.2213E-02
520507.37	4258749.16	70052.04587	0.24194	0.17438	0.23204	0.18216	1.22E-02	5.68E-07	3.58E-07	5.45E-07	3.59E-07	1.2152E-02
520027.12	4258664.6	70021.54012	2.06541	1.84842	2.75386	1.65694	1.21E-02	4.85E-06	3.79E-06	6.47E-06	3.26E-06	1.2163E-02
520450.89	4258307.14	69946.85261	0.20691	0.32256	0.20736	0.34387	1.21E-02	4.86E-07	6.62E-07	4.87E-07	6.77E-07	1.2134E-02
520217.07	4258322.75	69933.87479	0.34547	1.62853	0.36284	1.83168	1.21E-02	8.11E-07	3.34E-06	8.52E-07	3.61E-06	1.2138E-02
520429.63	4258888.52	69895.48641	0.36905	0.17171	0.35215	0.18127	1.21E-02	8.66E-07	3.52E-07	8.27E-07	3.57E-07	1.2125E-02
520502.41	4258389.27	69787.01199	0.19536	0.24312	0.19467	0.25786	1.21E-02	4.59E-07	4.99E-07	4.57E-07	5.08E-07	1.2106E-02
520024.46	4258700.84	69781.83533	2.22368	1.32825	2.89884	1.23058	1.21E-02	5.22E-06	2.72E-06	6.81E-06	2.42E-06	1.2121E-02
520462.04	4258845.08	69781.02814	0.31075	0.16886	0.29773	0.17807	1.21E-02	7.30E-07	3.46E-07	6.99E-07	3.51E-07	1.2105E-02
520197.29	4258963.1	69778.64747	1.92115	0.31642	1.76056	0.32196	1.21E-02	4.51E-06	6.49E-07	4.13E-06	6.34E-07	1.2113E-02
520403.18	4258283.33	69753.56669	0.22561	0.41587	0.23015	0.4481	1.21E-02	5.30E-07	8.53E-07	5.40E-07	8.82E-07	1.2101E-02
520395.24	4258922.77	69687.35492	0.44659	0.17786	0.42638	0.18781	1.21E-02	1.05E-06	3.65E-07	1.00E-06	3.70E-07	1.2090E-02
520032.76	4258769.08	69651.60082	3.18997	0.84693	4.17786	0.8126	1.21E-02	7.49E-06	1.74E-06	9.81E-06	1.60E-06	1.2101E-02
520315.08	4258283.05	69514.88171	0.26902	0.73379	0.27683	0.78864	1.21E-02	6.32E-07	1.48E-06	6.50E-07	1.55E-06	1.2061E-02
520345.79	4258952.85	69445.29775	0.59758	0.18999	0.57021	0.20261	1.20E-02	1.40E-06	3.90E-07	1.34E-06	3.99E-07	1.2049E-02
520471.18	4258831.29	69409.13885	0.2963	0.16847	0.28408	0.17741	1.20E-02	6.96E-07	3.46E-07	6.67E-07	3.49E-07	1.2041E-02
520432.51	4258293.42	69404.99645	0.21328	0.35458	0.21534	0.3801	1.20E-02	5.01E-07	7.27E-07	5.06E-07	7.48E-07	1.2040E-02
520256.71	425893?	69332.78075	1.10582	0.24226	1.04159	0.25753	1.20E-02	2.60E-06	4.97E-07	2.45E-06	5.07E-07	1.2032E-02
520050.82	4258825.02	69280.05516	5.78377	0.65605	8.89386	0.62733	1.20E-02	1.36E-05	1.35E-06	2.09E-05	1.23E-06	1.2053E-02
520246.81	4258973.02	69243.85845	1.19798	0.25165	1.12467	0.26628	1.20E-02	2.81E-06	5.16E-07	2.64E-06	5.24E-07	1.2017E-02
520266.61	4258972.98	69197.40448	1.02317	0.23336	0.96655	0.24896	1.20E-02	2.40E-06	4.79E-07	2.27E-06	4.90E-07	1.2008E-02
520167.57	4258953.15	69163.4176	2.78485	0.36708	2.49273	0.35971	1.20E-02	6.54E-06	7.53E-07	5.85E-06	7.08E-07	1.2010E-02
520025.18	425872?.7	69148.81582	2.42133	1.09467	3.14766	1.03122	1.20E-02	5.68E-06	2.25E-06	7.39E-06	2.03E-06	1.2011E-02
520275.9	4258292.93	69075.85183	0.29339	0.96577	0.30179	1.06454	1.20E-02	6.89E-07	1.98E-06	7.09E-07	2.10E-06	1.1986E-02
520365.57	4258942.82	69073.5244	0.52817	0.18354	0.50391	0.19503	1.20E-02	1.24E-06	3.76E-07	1.18E-06	3.84E-07	1.1984E-02
520236.91	4258973.03	68971.36231	1.30241	0.2616	1.21818	0.27526	1.20E-02	3.06E-06	5.37E-07	2.86E-06	5.42E-07	1.1970E-02
520508.82	4258473.37	68948.15442	0.20342	0.22335	0.20055	0.23681	1.20E-02	4.78E-07	4.58E-07	4.71E-07	4.66E-07	1.1961E-02
520276.51	4258972.97	68843.98807	0.94879	0.22495	0.88852	0.24064	1.19E-02	2.23E-06	4.61E-07	2.11E-06	4.74E-07	1.1946E-02
520492.57	4258792.41	68842.1122	0.26449	0.1695	0.25365	0.17763	1.19E-02	6.21E-07	3.48E-07	5.95E-07	3.50E-07	1.1942E-02
520412.97	4258283.36	68833.76723	0.2206	0.39434	0.22445	0.42436	1.19E-02	5.18E-07	8.09E-07	5.27E-07	8.35E-07	1.1942E-02
520459.51	4258310.83	68612.64333	0.20319	0.30954	0.20324	0.32916	1.19E-02	4.77E-07	6.35E-07	4.77E-07	6.48E-07	1.1937E-02
520158.47	4258949.39	68804.59835	3.18073	0.38363	2.82222	0.37136	1.19E-02	7.47E-06	7.87E-07	6.63E-06	7.31E-07	1.1949E-02
520138.58	4258382.5	68796.33599	0.44579	4.77466	0.47287	5.64604	1.19E-02	1.05E-06	9.79E-06	1.11E-06	1.11E-05	1.1955E-02
520420.79	4258902.18	68665.32267	0.3879	0.17212	0.3701	0.18157	1.19E-02	9.11E-07	3.53E-07	8.69E-07	3.57E-07	1.1931E-02
520105.57	4258907.57	68632.40515	9.51588	0.49522	8.10751	0.45717	1.19E-02	2.23E-05	1.02E-06	1.90E-05	9.00E-07	1.1947E-02
520227.01	4258973.05	68598.51732	1.42484	0.27246	1.32701	0.28469	1.19E-02	3.35E-06	5.59E-07	3.12E-06	5.60E-07	1.1906E-02
520514.24	4258732.76	68596.51	0.23274	0.17493	0.22322	0.18282	1.19E-02	5.46E-07	3.59E-07	5.24E-07	3.60E-07	1.1900E-02
520187.39	4258963.12	68592.34235	2.15336	0.32967	1.96013	0.33126	1.19E-02	5.06E-06	6.76E-07	4.60E-06	6.52E-07	1.1908E-02
520305.29	4258283.02	68588.16073	0.27323	0.77682	0.28094	0.84826	1.19E-02	6.41E-07	1.59E-06	6.60E-07	1.67E-06	1.1901E-02
520501.53	4258378.88	68547.89768	0.19412	0.2459	0.19382	0.26064	1.19E-02	4.56E-07	5.04E-07	4.55E-07	5.13E-07	1.1891E-02
520480.61	4258817.37	68547.60049	0.28232	0.16795	0.27066	0.17653	1.19E-02	6.63E-07	3.44E-07	6.35E-07	3.47E-07	1.1891E-02
520403.69	4258919.27	68477.00097	0.42627	0.1751	0.40714	0.1847	1.19E-02	1.00E-06	3.59E-07	9.56E-07	3.64E-07	1.1880E-02
520286.41	4258972.95	68359.63046	0.8827	0.21722	0.83765	0.23277	1.19E-02	2.07E-06	4.46E-07	1.97E-06	4.58E-07	1.1862E-02
520029.19	4258760.49	68348.30521	2.85681	0.88315	3.71783	0.84486	1.19E-02	6.71E-06	1.81E-06	8.73E-06	1.66E-06	1.1874E-02
520447.37	4258871.17	68310.96164	0.33647	0.16835	0.3216	0.17769	1.18E-02	7.90E-07	3.45E-07	7.55E-07	3.50E-07	1.1850E-02
520158.21	4258362.56	68301.13401	0.41072	3.40506	0.43711	3.95121	1.18E-02	9.64E-07	6.98E-06	1.03E-06	7.78E-06	1.1863E-02
520385.36	4258932.79	68233.39609	0.47144	0.17805	0.44959	0.18842	1.18E-02	1.11E-06	3.65E-07	1.06E-06	3.71E-07	1.1838E-02
520486.41	4258342.37	68186.18428	0.19557	0.27014	0.19562	0.28536	1.18E-02	4.59E-07	5.54E-07	4.59E-07	5.62E-07	1.1829E-02
520128.76	4258392.47	68174.93712	0.46336	5.83713	0.49082	6.99866	1.18E-02	1.09E-06	1.20E-05	1.15E-06	1.38E-05	1.1853E-02
520149.36	4258945.63	68149.17364	3.66653	0.39958	3.22456	0.38226	1.18E-02	8.61E-06	8.20E-07	7.57E-06	7.52E-07	1.1838E-02
520087.01	4258889.92	68087.5125	15.52568	0.52874	17.48178	0.48935	1.18E-02	3.64E-05	1.08E-06	4.10E-05	9.63E-07	1.1889E-02
520027.12	4258655.32	68057.89442	1.96193	2.00876	2.62136	1.78219	1.18E-02	4.61E-06	4.12E-06	6.15E-06	3.51E-06	1.1823E-02
520217.11	4258973.07	68041.16092	1.56651	0.2839	1.45198	0.29416	1.18E-02	3.68E-06	5.82E-07	3.41E-06	5.79E-07	1.1810E-02
520521.36	4258691.81	68034.16547	0.22023	0.18014	0.21176	0.18876	1.18E-02	5.17E-07	3.69E-07	4.97E-07	3.72E-07	1.1802E-02
520246.5	4258302.84	68032.23737	0.31363	1.23436	0.32519	1.37487	1.18E-02	7.36E-07	2.53E-06	7.63E-07	2.71E-06	1.1807E-02
520364.06	4258273.21	67916.75887	0.24102	0.5267	0.248	0.56976	1.18E-02	5.66E-07	1.08E-06	5.82E-07	1.12E-06	1.1783E-02
520226.89	4258312.78	67895.59349	0.33042	1.48053	0.34568	1.66022	1.18E-02	7.76E-07	3.04E-06	8.12E-07	3.27E-06	1.1784E-02
520373.85	4258273.24	67852.18843	0.23642	0.49599	0.24297	0.53609	1.18E-02	5.55E-07	1.02E-06	5.70E-07	1.06E-06	1.1772E-02
520354.27	4258273.18	67796.3755	0.24551	0.56027	0.25282	0.60661	1.18E-02	5.76E-07	1.15E-06	5.94E-07	1.19E-06	1.1762E-02
520296.32	4258972.93	67741.52632	0.82349	0.21012	0.78272	0.22534	1.17E-02	1.93E-06	4.31E-07	1.84E-06	4.44E-07	1.1754E-02
520438.23	4258884.96	67696.70348	0.35344	0.16853	0.3373	0.17788	1.17E-02	8.30E-07	3.46E-07	7.92E-07	3.50E-07	1.1744E-02
520355.69	4258952.84	67686.12223	0.56291	0.18471	0.53695	0.1967	1.17E-02	1.32E-06	3.79E-07	1.26E-06	3.87E-07	1.1743E-02
520422.76	4258283.39	67590.65824	0.21554	0.37479	0.2188	0.40259	1.17E-02	5.06E-07	7.69E-07	5.14E-07	7.92E-07	1.1726E-02
520052.37	4258835.65	67556.71051	6.08535	0.62441	9.76329	0.59647	1.17E-02	1.43E-05	1.28E-06	2.29E-05	1.17E-06	1.1757E-02
520442.3	4258293.45	67538.0819	0.20812	0.33822	0.20968	0.36172	1.17E-02	4.89E-07	6.94E-07	4.92E-07	7.12E-07	1.1717E-02
520383.63	4258273.27	67512.85794	0.23168	0.46812	0.23778	0.50533	1.17E-02	5.44E-07	9.60E-07	5.58E-07	9.95E-07	1.1716E-02
520168.03	4258352.6	67504.78011	0.39391	2.94239	0.41934	3.3937	1.17E-02	9.25E-07	6.03E-06	9.84E-07	6.68E-06	1.1723E-02
520295.51	4258282.99	67500.63187	0.27724	0.83535	0.28497	0.91454	1.17E-02	6.51E-07	1.71E-06	6.69E-07	1.80E-06	1.1713E-02
520344.48	4258273.15	67473.69235	0.24987	0.59706	0.25738	0.64699	1.17E-02	5.87E-07	1.22E-06	6.04E-07	1.27E-06	1.1707E-02
520140.25	4258941.88	67470.77132	4.31533	0.41514	3.75202	0.39269	1.17E-02	1.01E-05	8.51E-07	8.81E-06	7.73E-07	1.1723E-02
520266.11	425829?.9	67425.01761	0.297	1.04705	0.30624	1.15779	1.17E-02	6.97E-07	2.15E-06	7.19E-07	2.28E-06	1.1700E-02
520335.9	4258962.87	67419.34687	0.63678	0.19101	0.60725	0.2041	1.17E-02	1.49E-06	3.92E-07	1.43E-06	4.02E-07	1.1697E-02
520468.13	4258314.52	67358.55545	0.19948	0.29735	0.19928	0.31539	1.17E-02	4.68E-07	6.10E-07	4.68E-07	6.21E-07	1.1685E-02
520114.95	4258921.44	67273.58845	7.40312	0.46664	6.2837	0.4322	1.17E-02	1.74E-05	9.57E-07	1.48E-05	8.51E-07	1.1702E-02
520207.21	4258973.08	67266.71059	1.73008	0.29576	1.59516	0.30346	1.17E-02	4.06E-06	6.07E-07	3.74E-06	5.97E-07	1.1676E-02
520177.49	4258963.13	67225.33608	2.4331	0.34287	2.19856	0.33992	1.17E-02	5.71E-06	7.03E-07	5.16E-06	6.69E-07	1.1672E-02
520490.42	4258803.31	67186.07901	0.26861	0.16726	0.25749	0.17545	1.17E-02	6.31E-07	3.43E-07	6.05E-07	3.45E-07	1.1655E-02
520039.81	4258598.93	67166.03637	1.71612	4.18897	2.44419	3.28564	1.16E-02	4.03E-06	8.59E-06	5.74E-06	6.47E-06	1.1674E-02
520496.04	4258356.5	67078.66314	0.19318	0.256	0.19332	0.27071	1.16E-02	4.54E-07	5.25E-07	4.54E-07	5.33E-07	1.1636E-02
520500.8	4258368.55	67065.01065	0.19276	0.24873	0.19275	0.26332	1.16E-02	4.53E-07	5.10E-07	4.53E-07	5.18E-07	1.1634E-02
520412.14	4258915.77	67037.98023	0.40737	0.17215	0.38889	0.1815	1.16E-02	9.56E-07	3.53E-07	9.13E-07	3.57E-07	1.1630E-02
520334.69	4258273.11	67025.98398	0.25414	0.6372	0.26168	0.6914	1.16E-02	5.97E-07	1.31E-06	6.14E-07	1.36E-06	1.1629E-02
520393.42	4258273.3	67020.78113	0.22692	0.44246	0.23249	0.47707	1.16E-02	5.33E-07	9.07E-07	5.46E-07	9.39E-07	1.1627E-02
520096.72	4258903.92	67014.99478	12.62655	0.50175	11.00146	0.46318	1.16E-02	2.96E-05	1.03E-06	2.58E-05	9.12E-07	1.1681E-02
520461.44	4258855.34	66913.50231	0.31304	0.16616	0.29969	0.17523	1.16E-02	7.35E-07	3.41E-07	7.04E-07	3.45E-07	1.1608E-02
520375.47	425894?.8	66900.505	0.49876	0.17856	0.47557	0.18942	1.16E-02	1.17E-06	3.66E-07	1.12E-06	3.73E-07	1.1607E-02
520450.83	425829?.1	66846.34587	0.20458	0.32427	0.20553	0.34601	1.16E-02	4.80E-07	6.65E-07	4.83E-07	6.81E-07	1.1597E-02
520207.28	4258322.72	66804.2752	0.34649	1.81472	0.36645	2.04556	1.16E-02	8.13E-07	3.72E-06	8.60E-07	4.03E-06	1.1596E-02
520470.4	4258841.62	66742.30132	0.29879	0.16581	0.28629	0.17468	1.16E-02	7.01E-07	3.40E-07	6.72E-07	3.44E-07	1.1578E-02
520118.94	4258402.44	66727.24285	0.48045	7.38365	0.5096	8.91	1.16E-02	1.13E-06	1.51E-05	1.20E-06	1.75E-05	1.1609E-02
520025.63	425875?.9	66682.22047	2.54787	0.92172	3.31277	0.87782	1.16E-02	5.98E-06	1.89E-06	7.78E-06	1.73E-06	1.1583E-02
520512.12	4258461.42	66679.69661	0.19995	0.22268	0.19738	0.2358	1.16E-02	4.69E-07	4.57E-07	4.63E-07	4.64E-07	1.1567E-02
520429.31	4258898.66	66569.60073	0.37101	0.16872	0.35375	0.17799	1.15E-02	8.71E-07	3.46E-07	8.30E-07	3.50E-07	1.1549E-02
520177.85	4258342.63	66473.54191	0.37748	2.57704	0.40185	2.95076	1.15E-02	8.86E-07	5.29E-06	9.43E-07	5.81E-06	1.1542E-02
520021.57	4258717.99	66458.6131	1.17388	1.34493	1.78436	1.07234	1.15E-02	5.10E-06	2.35E-06	6.54E-06	2.11E-06	1.1543E-02
520324.9	4258273.08	66406.98762	0.25827	0.6812	0.26573	0.74031	1.15E-02	6.06E-07	1.40E-06	6.24E-07	1.46E-06	1.1522E-02
520521.1	4258716.36	66367.67141	0.22406	0.17495	0.215	0.1831	1.15E-02	5.26E-07	3.59E-07	5.05E-07	3.60E-07	1.1513E-02
520197.31	425897?.1	66357.38838	1.92534	1.76463	3.30817	0.31263	1.15E-02	4.52E-06	6.32E-07	4.14E-06	6.15E-07	1.1519E-02
520403.21	4258273.33	66357.09375	0.22214	0.41886	0.22713	0.45109	1.15E-02	5.22E-07	8.59E-07	5.33E-07	8.88E-07	1.1512E-02
520512.06	4258481.89	66312.22942	0.20233	0.21944	0.19912	0.23262	1.15E-02	4.75E-07	4.50E-07	4.67E-07	4.58E-07	1.1503E-02
520285.72	4258282.96	66293.51468	0.28109	0.90021	0.28904	0.98869	1.15E-02	6.60E-07	1.85E-06	6.79E-07	1.95E-06	1.1509E-02
520099.26	4258432.38	66246.05501	0.5517	13.86168	0.59523	15.91144	1.15E-02	1.30E-06	2.84E-05	1.40E-06	3.13E-05	1.1533E-02
520395.26	4258932.77	66213.65843	0.44808	0.17413	0.42758	0.18393	1.15E-02	1.05E-06	3.57E-07	1.00E-06	3.62E-07	1.1487E-02
520345.8	4258962.85	66176.33859	0.59981	0.18607	0.57234	0.19851	1.14E-02	1.41E-06	3.82E-07	1.34E-06	3.91E-07	1.1482E-02
520432.55	4258283.42	66176.27132	0.21055	0.35665	0.21323	0.38241	1.15E-02	4.94E-07	7.31E-07	5.01E-07	7.53E-07	1.1480E-02
520479.62	4258827.79	66156.733	0.28502	0.16541	0.27318	0.17397	1.15E-02	6.69E-07	3.39E-07	6.41E-07	3.42E-07	1.1477E-02
520365.59	4258952.82	66098.07055	0.53202	0.17999	0.50738	0.19137	1.15E-02	1.25E-06	3.69E-07	1.19E-06	3.77E-07	1.1468E-02
520036.17	4258801.44	66032.06856	3.62419	0.70783	4.79642	0.68289	1.15E-02	8.51E-06	1.45E-06	1.13E-05	1.34E-06	1.1476E-02
520459.36	4258300.75	65906.74014	0.20103	0.3112	0.20145	0.33128	1.14E-02	4.72E-07	6.38E-07	4.73E-07	6.52E-07	1.1433E-02
520106.18	4258917.82	65783.13274	9.40007	0.47465	7.97682	0.43842	1.14E-02	2.21E-05	9.73E-07	1.87E-05	8.63E-07	1.1452E-02
520236.71	4258302.81	65765.37016	0.31622	1.36357	0.32982	1.51215	1.14E-02	7.42E-07	2.78E-06	7.74E-07	2.98E-06	1.1414E-02
520053.74	4258846.21	65743.21763	6.40646	0.59484	10.72055	0.56781	1.14E-02	1.50E-05	1.22E-06	2.52

520109.12	4258412.41	64059.94829	0.49613	9.76209	0.52838	11.79485	1.11E-02	1.16E-06	2.00E-05	1.24E-06	2.32E-05	1.1157E-02
520517.67	4258748.5	64053.48207	0.23203	0.16926	0.22241	0.17664	1.11E-02	5.45E-07	3.47E-07	5.22E-07	3.48E-07	1.1112E-02
520177.5	4258973.13	64027.29189	2.43929	0.33327	2.20485	0.32946	1.11E-02	5.73E-06	6.84E-07	5.18E-06	6.49E-07	1.1117E-02
520375.49	4258952.8	63973.74825	0.5023	0.17512	0.47869	0.1859	1.11E-02	1.18E-06	3.59E-07	1.12E-06	3.66E-07	1.1099E-02
520112.94	4258930.6	63958.55402	7.79797	0.45014	6.6155	0.4167	1.11E-02	1.83E-05	9.23E-07	1.55E-05	8.20E-07	1.1129E-02
520043.52	425832	63955.53049	4.55647	0.617	6.40691	0.59431	1.11E-02	1.07E-05	1.27E-06	1.50E-05	1.17E-06	1.1121E-02
520344.51	4258263.15	63925.68401	0.24436	0.60198	0.25154	0.65164	1.11E-02	5.74E-07	1.23E-06	5.91E-07	1.28E-06	1.1091E-02
520451.31	4258287.29	63917.58639	0.20205	0.3251	0.2035	0.34711	1.11E-02	4.74E-07	6.67E-07	4.78E-07	6.83E-07	1.1089E-02
520554.96	4258856.71	63870.77833	6.71133	0.56739	11.76173	0.54129	1.11E-02	1.58E-05	1.16E-06	2.76E-05	1.07E-06	1.1124E-02
520029.93	4258628.06	63823.44766	1.73978	2.66306	2.36914	2.26801	1.11E-02	4.08E-06	5.56E-06	5.56E-06	4.46E-06	1.1089E-02
520412.02	4258925.83	63819.55135	0.40907	0.16881	0.39028	0.17796	1.11E-02	9.60E-07	3.46E-07	9.16E-07	3.50E-07	1.1072E-02
520478.76	4258838.16	63785.0792	0.28749	0.16288	0.27547	0.17139	1.11E-02	6.75E-07	3.34E-07	6.47E-07	3.37E-07	1.1065E-02
520393.45	4258263.3	63724.40756	0.22308	0.44596	0.22807	0.48033	1.11E-02	5.24E-07	9.15E-07	5.38E-07	9.46E-07	1.1056E-02
520246.53	4258292.84	63691.28425	0.30299	1.24295	0.31515	1.38379	1.10E-02	7.11E-07	2.55E-06	7.40E-07	2.72E-06	1.1054E-02
520515.3	4258469.76	63651.13446	0.19883	0.21834	0.19596	0.23127	1.10E-02	4.67E-07	4.48E-07	4.60E-07	4.55E-07	1.1042E-02
520499.09	4258799.72	63607.67005	0.25842	0.1642	0.2476	0.172	1.10E-02	6.07E-07	3.37E-07	5.81E-07	3.39E-07	1.1034E-02
520059.52	4258530.96	63578.99187	1.09112	13.28282	1.32468	7.65591	1.10E-02	2.56E-06	2.72E-05	3.11E-06	1.51E-05	1.1075E-02
520429.03	4258908.78	63574.03288	0.37301	0.16582	0.35546	0.17482	1.10E-02	8.76E-07	3.40E-07	8.35E-07	3.44E-07	1.1029E-02
520295.54	4258272.99	63526.15713	0.26951	0.84164	0.27718	0.92064	1.10E-02	6.33E-07	1.73E-06	6.51E-07	1.81E-06	1.1023E-02
520197.49	4258322.69	63512.19159	0.34622	2.03507	0.36802	2.29825	1.10E-02	8.13E-07	4.17E-06	8.64E-07	4.52E-06	1.1026E-02
520334.72	4258263.11	63450.61533	0.24826	0.6423	0.25539	0.69631	1.10E-02	5.83E-07	1.32E-06	6.00E-07	1.37E-06	1.1009E-02
520505.02	4258360.35	63447.12707	0.18913	0.24596	0.18919	0.26001	1.10E-02	4.44E-07	5.04E-07	4.44E-07	5.12E-07	1.1007E-02
520024.85	4258774.14	63442.27128	2.62765	0.79695	3.32931	0.76613	1.10E-02	6.17E-06	1.63E-06	7.82E-06	1.51E-06	1.1021E-02
520266.14	4258282.9	63358.07748	0.28785	1.05401	0.29739	1.16551	1.10E-02	6.76E-07	2.16E-06	6.98E-07	2.29E-06	1.0995E-02
520226.92	4258302.78	63341.99738	0.31805	1.49118	0.33389	1.67045	1.10E-02	7.47E-07	3.06E-06	7.84E-07	3.29E-06	1.0994E-02
520017.96	4258709.28	63312.58018	1.94396	1.1946	2.46491	1.11272	1.10E-02	4.56E-06	2.45E-06	5.79E-06	2.19E-06	1.0996E-02
520432.58	4258273.42	63187.52179	0.20782	0.35875	0.21106	0.38468	1.10E-02	4.88E-07	7.36E-07	4.96E-07	7.57E-07	1.0962E-02
520403.24	4258263.33	63154.1056	0.2186	0.42203	0.22398	0.45408	1.10E-02	5.13E-07	8.66E-07	5.26E-07	8.94E-07	1.0957E-02
520494.57	4258335.85	63151.45531	0.19004	0.26218	0.19012	0.27642	1.10E-02	4.46E-07	5.38E-07	4.46E-07	5.44E-07	1.0956E-02
520476.42	4258308.05	63116.51471	0.19389	0.28764	0.19372	0.30462	1.09E-02	4.55E-07	5.90E-07	4.55E-07	6.00E-07	1.0949E-02
520316.13	4258982.9	63070.3292	0.72521	0.19342	0.69023	0.20733	1.09E-02	1.70E-06	3.97E-07	1.62E-06	4.08E-07	1.0943E-02
520460.29	4258291.14	63051.47066	0.19845	0.31125	0.19928	0.33156	1.09E-02	4.66E-07	6.38E-07	4.68E-07	6.53E-07	1.0938E-02
520488.07	4258824.29	63012.95449	0.27435	0.16232	0.26282	0.17052	1.09E-02	6.44E-07	3.33E-07	6.17E-07	3.36E-07	1.0931E-02
520395.27	4258942.77	63003.73247	0.44945	0.17048	0.42875	0.18017	1.09E-02	1.06E-06	3.50E-07	1.01E-06	3.55E-07	1.0930E-02
520464.77	4258863.96	62963.87777	0.30949	0.16211	0.29601	0.1709	1.09E-02	7.27E-07	3.32E-07	6.95E-07	3.36E-07	1.0929E-02
520345.82	4258972.85	62946.85057	0.60106	0.18204	0.57343	0.1943	1.09E-02	1.41E-06	3.73E-07	1.35E-06	3.82E-07	1.0921E-02
520256.75	425893	62932.58317	1.11493	0.23211	1.04949	0.24583	1.09E-02	2.62E-06	4.76E-07	2.46E-06	4.84E-07	1.0921E-02
520455.44	4258877.83	62920.80106	0.32489	0.16242	0.31023	0.1713	1.09E-02	7.63E-07	3.33E-07	7.28E-07	3.37E-07	1.0915E-02
520365.6	4258962.82	62919.96573	0.53351	0.17627	0.50876	0.18751	1.09E-02	1.25E-06	3.62E-07	1.19E-06	3.69E-07	1.0916E-02
520027.12	4258636.77	62917.32357	1.72569	2.36234	2.3111	2.04783	1.09E-02	4.05E-06	4.84E-06	5.43E-06	4.03E-06	1.0931E-02
520517.32	4258423.32	62915.68398	0.19194	0.22428	0.19001	0.23713	1.09E-02	4.51E-07	4.60E-07	4.46E-07	4.67E-07	1.0914E-02
520148.43	4258362.53	62902.85888	0.40364	0.01685	0.42677	0.69858	1.09E-02	9.48E-07	8.24E-06	1.00E-06	9.25E-06	1.0930E-02
520088.64	4258910.58	62896.04374	14.95675	0.48363	15.80866	0.44822	1.09E-02	3.51E-05	9.92E-07	3.71E-05	8.82E-07	1.0983E-02
520246.84	4258393.02	62885.32253	1.20911	0.24104	1.13444	0.25399	1.09E-02	2.84E-06	4.94E-07	2.66E-06	5.00E-07	1.0914E-02
520058.92	4258868.33	62864.21256	7.93548	0.5435	16.4273	0.51675	1.09E-02	1.86E-05	1.11E-06	3.86E-05	1.02E-06	1.0963E-02
520266.65	4258992.98	62843.35441	1.03173	0.22373	0.97392	0.23794	1.09E-02	2.42E-06	4.59E-07	2.29E-06	4.68E-07	1.0906E-02
520018.5	4258734.71	62830.74122	2.09531	1.00158	2.65827	0.94602	1.09E-02	4.92E-06	2.05E-06	6.24E-06	1.86E-06	1.0913E-02
520324.93	4258263.08	62767.88528	0.25196	0.68658	0.25905	0.74544	1.09E-02	5.92E-07	1.41E-06	6.08E-07	1.47E-06	1.0891E-02
520236.94	4258993.03	62717.48341	1.31651	0.25056	1.23068	0.26238	1.09E-02	3.09E-06	5.14E-07	2.89E-06	5.16E-07	1.0885E-02
520158.25	4258352.56	62715.68744	0.38856	3.42407	0.41173	3.97105	1.09E-02	9.12E-07	7.02E-06	9.67E-07	7.82E-06	1.0894E-02
520138.61	425872.5	62676.54897	0.41876	4.80034	0.44195	5.66578	1.09E-02	9.83E-07	9.85E-06	1.04E-06	1.12E-05	1.0894E-02
520167.6	4258973.15	62638.40908	2.78477	0.34527	2.49709	0.33673	1.09E-02	6.54E-06	7.08E-07	5.86E-06	6.63E-07	1.0878E-02
520039.77	4258589.23	62606.54953	1.52089	4.44824	2.12594	3.4428	1.09E-02	3.57E-06	9.12E-06	4.99E-06	6.78E-06	1.0883E-02
520276.55	4258992.97	62583.282	0.95738	0.21584	0.90589	0.2303	1.09E-02	2.25E-06	4.43E-07	2.13E-06	4.53E-07	1.0860E-02
520544.46	4258732.28	62581.08206	0.22351	0.16962	0.21423	0.17716	1.09E-02	5.25E-07	3.48E-07	5.03E-07	3.49E-07	1.0858E-02
520103.83	4258926.84	62540.81202	10.07805	0.45699	8.5717	0.42235	1.08E-02	2.37E-05	9.37E-07	2.01E-05	8.31E-07	1.0893E-02
520045	4258842.6	62494.3978	4.80901	0.58784	6.87773	0.56603	1.08E-02	1.13E-05	1.21E-06	1.61E-05	1.11E-06	1.0869E-02
520413.03	4258263.36	62429.75984	0.21411	0.39996	0.21893	0.42989	1.08E-02	5.03E-07	8.20E-07	5.14E-07	8.46E-07	1.0831E-02
520446.36	425891.6	62416.16613	0.34069	0.16266	0.32492	0.17154	1.08E-02	8.00E-07	3.34E-07	7.63E-07	3.38E-07	1.0828E-02
520227.04	4258993.05	62408.99238	1.43969	0.26063	1.3404	0.27089	1.08E-02	3.38E-06	5.35E-07	3.15E-06	5.33E-07	1.0832E-02
520207.31	4258312.72	62380.48029	0.33261	1.82541	0.35207	2.05987	1.08E-02	7.81E-07	3.74E-06	8.27E-07	4.05E-06	1.0829E-02
520158.67	4258969.46	62344.29272	3.16653	0.3594	2.81678	0.34661	1.08E-02	7.43E-06	7.37E-07	6.61E-06	6.82E-07	1.0829E-02
520420.4	4258922.36	62342.41717	0.39149	0.1659	0.37312	0.17484	1.08E-02	9.19E-07	3.40E-07	8.76E-07	3.44E-07	1.0815E-02
520385.75	4258272.96	62338.53696	0.27294	0.90678	0.28106	0.99506	1.08E-02	6.41E-07	1.86E-06	6.60E-07	1.96E-06	1.0817E-02
520326.03	4258982.89	62281.97224	0.68119	0.18812	0.64894	0.20145	1.08E-02	1.60E-06	3.86E-07	1.52E-06	3.97E-07	1.0806E-02
520168.07	4258342.6	62219.68018	0.37377	2.96195	0.39673	3.40981	1.08E-02	8.77E-07	6.07E-06	9.31E-07	6.71E-06	1.0806E-02
520286.45	4258992.95	62162.86827	0.89062	0.20845	0.84432	0.22295	1.08E-02	2.09E-06	4.28E-07	1.98E-06	4.39E-07	1.0787E-02
520385.39	4258952.79	62133.95622	0.47581	0.17081	0.45333	0.18102	1.08E-02	1.12E-06	3.50E-07	1.06E-06	3.56E-07	1.0780E-02
520504.08	4258349.93	62078.29481	0.18785	0.24884	0.18795	0.26271	1.08E-02	4.41E-07	5.10E-07	4.41E-07	5.17E-07	1.0769E-02
520021.08	4258765.04	62059.98996	2.36812	0.83094	2.97885	0.79612	1.08E-02	5.56E-06	1.70E-06	6.99E-06	1.57E-06	1.0780E-02
520315.14	4258263.05	61985.07822	0.25556	0.73499	0.26263	0.79973	1.08E-02	6.00E-07	1.51E-06	6.17E-07	1.57E-06	1.0755E-02
520149.75	4258965.78	61950.42781	3.65174	0.37327	3.21761	0.35607	1.07E-02	8.57E-06	7.66E-07	7.55E-06	7.01E-07	1.0763E-02
520403.99	4258939.16	61939.50887	0.42848	0.16791	0.40873	0.17719	1.07E-02	1.01E-06	3.44E-07	9.60E-07	3.49E-07	1.0746E-02
520217.14	4258993.07	61915.78896	1.58163	0.27116	1.46578	0.27935	1.07E-02	3.71E-06	5.56E-07	3.44E-06	5.50E-07	1.0747E-02
520128.79	4258382.47	61893.12564	0.43384	5.86707	0.45725	7.02077	1.07E-02	1.02E-06	1.20E-05	1.07E-06	1.38E-05	1.0763E-02
520469.27	4258294.98	61872.67636	0.19482	0.29844	0.19516	0.31708	1.07E-02	4.57E-07	6.12E-07	4.58E-07	6.24E-07	1.0734E-02
520497.71	4258810.3	61848.10751	0.26144	0.16184	0.25051	0.16965	1.07E-02	6.14E-07	3.32E-07	5.88E-07	3.34E-07	1.0729E-02
520442.37	4258273.45	61791.98181	0.20314	0.34146	0.20578	0.36559	1.07E-02	4.77E-07	7.00E-07	4.83E-07	7.20E-07	1.0720E-02
520531.4	4258691.76	61710.06088	0.21201	0.17463	0.20376	0.18278	1.07E-02	4.98E-07	3.58E-07	4.78E-07	3.60E-07	1.0705E-02
520437.48	4258905.28	61687.96499	0.35732	0.16289	0.34052	0.17171	1.07E-02	8.39E-07	3.34E-07	7.99E-07	3.38E-07	1.0702E-02
520256.35	4258282.87	61637.69433	0.29062	1.1461	0.30158	1.27154	1.07E-02	6.82E-07	2.35E-06	7.08E-07	2.50E-06	1.0697E-02
520296.35	4258992.93	61590.31538	0.83039	0.20155	0.78837	0.21591	1.07E-02	1.95E-06	4.13E-07	1.85E-06	4.25E-07	1.0687E-02
520236.74	4258292.81	61514.31578	0.30499	1.36299	0.31921	1.52132	1.07E-02	7.16E-07	2.80E-06	7.49E-07	2.99E-06	1.0677E-02
520140.82	4258962.09	61507.27769	4.28663	0.38662	3.73443	0.36504	1.07E-02	1.01E-05	7.93E-07	8.77E-06	7.19E-07	1.0688E-02
520422.82	4258263.39	61498.14818	0.20958	0.37967	0.21386	0.40757	1.07E-02	4.92E-07	7.79E-07	5.02E-07	8.02E-07	1.0669E-02
520355.72	4258972.84	61491.88925	0.56649	0.17715	0.54028	0.18881	1.07E-02	1.33E-06	3.63E-07	1.27E-06	3.72E-07	1.0669E-02
520478	4258848.48	61457.09731	0.28978	0.16037	0.27754	0.1688	1.07E-02	6.80E-07	3.29E-07	6.52E-07	3.32E-07	1.0661E-02
520484.95	425831.7	61453.09128	0.19043	0.2766	0.19008	0.29236	1.07E-02	4.47E-07	5.67E-07	4.46E-07	5.76E-07	1.0661E-02
520113.51	4258940.83	61305.11653	7.72282	0.43262	6.54205	0.40061	1.06E-02	1.81E-05	8.87E-07	1.54E-05	7.89E-07	1.0668E-02
520451.24	4258277.25	61288.09589	0.19978	0.32662	0.20175	0.34902	1.06E-02	4.69E-07	6.70E-07	4.74E-07	6.87E-07	1.0632E-02
520207.24	4258993.08	61252.26998	1.74697	0.28208	1.61067	0.28766	1.06E-02	4.10E-06	5.79E-07	3.78E-06	5.66E-07	1.0633E-02
520094.73	4258923.08	61228.16265	13.53111	0.46187	11.91497	0.42737	1.06E-02	3.18E-05	9.47E-07	2.80E-05	8.41E-07	1.0681E-02
520335.94	4258982.87	61161.39489	0.63996	0.18295	0.60996	0.19566	1.06E-02	1.50E-06	3.75E-07	1.43E-06	3.85E-07	1.0612E-02
520373.91	4258253.24	61117.06306	0.22737	0.50451	0.23409	0.54361	1.06E-02	5.34E-07	1.03E-06	5.50E-07	1.07E-06	1.0604E-02
520375.51	4258962.8	61109.80503	0.50419	0.1716	0.48043	0.18228	1.06E-02	1.18E-06	3.52E-07	1.13E-06	3.59E-07	1.0602E-02
520364.12	4258253.21	61103.08537	0.23132	0.53573	0.23818	0.5778	1.06E-02	5.43E-07	1.10E-06	5.59E-07	1.14E-06	1.0601E-02
520017.12	4258683.15	61048.83775	1.73178	1.44644	2.20619	1.32151	1.06E-02	4.07E-06	2.97E-06	5.18E-06	2.60E-06	1.0603E-02
520305.36	4258263.02	61028.76903	0.25894	0.79832	0.26619	0.85974	1.06E-02	6.08E-07	1.62E-06	6.25E-07	1.69E-06	1.0590E-02
520275.96	4258272.93	60999.14107	0.27609	0.97962	0.28501	1.07849	1.06E-02	6.48E-07	2.01E-06	6.69E-07	2.12E-06	1.0585E-02
520383.7	4258253.27	60995.20939	0.22335	0.47577	0.22978	0.51227	1.06E-02	5.24E-07	9.76E-07	5.39E-07	1.01E-06	1.0582E-02
520060.17	4258878.84	60954.5146	8.40351	0.51965	15.98008	0.4938	1.06E-02	1.97E-05	1.07E-06	3.75E-05	9.72E-07	1.0632E-02
520046.31	4258853.13	60931.39116	5.04025	0.56088	7.35846	0.53984	1.06E-02	1.18E-05	1.15E-06	1.73E-05	1.06E-06	1.0608E-02
520354.33	4258253.18	60930.94621	0.23516	0.56971	0.24206	0.61516	1.06E-02	5.52E-07	1.17E-06	5.68E-07	1.21E-06	1.0572E-02
520487.12	4258834.69	60908.88332	0.27681	0.15998	0.26518	0.16815	1.06E-02	6.50E-07	3.28E-07	6.23E-07	3.31E-07	1.0566E-02
520306.25	4258992.92	60881.19705	0.77588	0.19513	0.7374	0.20919	1.06E-02	1.82E-06	4.00E-07	1.73E-06	4.12E-07	1.0564E-02
520029.16	4258808.65	60878.26095	3.03102	0.66469	3.88562	0.64347	1.06E-02	7.12E-06	1.36E-06	9.12E-06	1.27E-06	1.0578E-02
520217.13	4258302.75	60843.9057	0.31912	1.65061	0.33688	1.85493	1.06E-02	7.49E-07	3.39E-06	7.91E-07	3.65E-06	1.0562E-02
520428.78	4258918.89	60748.95181	0.37484	0.16292	0.35704	0.17167	1.05E-02	8.80E-07	3.34E-07	8.38E-07	3.38E-07	1.0539E-02
520520.79	4258432.44	60712.0833	0.19113	0.21997	0.189	0.23243	1.05E-02	4.49E-07	4.51E-07	4.44E-07	4.58E-07	1.0536E-02
520412.71	4258935.55	60706.98703	0.4089	0.16527	0.38994	0.17421	1.05E-02	9.60E-07	3.39E-07	9.15E-07	3.43E-07	1.0532E-02
520393.48	425853.3	60678.50541	0.21923	0.44944	0.22531	0.48351	1.05E-02	5.15E-07	9.22E-07	5.29E-07	9.52E-07	1.0527E-02
520344.54	4258253.15	60573.0528	0.23885	0.60682	0.24572	0.65605	1.05E-02	5.61E-07	1.24E-06	5.77E-07	1.29E-06	1.0510E-02
520460.11	4258281.05	60518.04289	0.19635	0.31289	0.19769	0.33361	1.05E-02	4.61E-07	6.42E-07	4.64E-07	6.57E-07	1.0499E-02
520503.29	4258339.58	60485.83599	0.18641	0.25185	0.18649	0.26546	1.05E-02	4.38E-07	5.17E-07	4.38E-07	5.23E-07	1.0493E-02
520464.05	4258874.27	60485.74454	0.31183	0.19791	0.29791	0.16813	1.05E-02	7.32E-07	3.27E-07	6.99E-07	3.31E-07	1.0493E-02
520531.26	4258716.06	60451.79148	0.21544	0.16958	0.20664	0.17736	1.05E-02	5.06E-07	3.48E-07	4.85E-07	3.49E-07	1.0487E-02
520014.94	4258726.12	60428.39726	1.89633	1.04302	2.37919	0.98022	1.05E-02	4.45E-06	2.14E-06	5.59E-06	1.93E-06	1.0495E-02
520478.24	4258288.82	60416.64116	0.19118	0.28648	0.19117	0.30354	1.05E-02	4.49E-07	5.88E-07	4.49E-07	5.98E-07	1.0481E-02
520197.34	4258993.1	60401.13693	1.94135	0.2932	1.77954	0.29563	1.05E-02	4.56E-06	6.01E-07	4.18E-06	5.82E-07	1.0486E-02
520118.97	4258392.44	60398.83816	0.44817	7.4066	0.47298	8.95933	1.05E-02	1.05E-06	1.52E-05	1.11E-06	1.76E-05	1.0511E-02
520432.61	4258263.42	60383.15569	0.20506	0.36096	0.2088	0.38694	1.05E-02	4.81E-07	7.40E-07	4.90E-07	7.62E-07	1.0476E-02
520034.67	4258828.34	60372.2201	3.55253	0.6103	4.66205	0.59124	1.05E-02	8.34E-06	1.25E-06	1.09E-05	1.16E-06	1.0493E-02
520187.71	4258322.66	60336.87622	0.34504	2.29579	0.36695	2.60542	1.05E-02	8.10E-07	4.71E-06	8.61E-07	5.13E-06	1.0477E-02
520473.46	4258860.36	60330.64339	0.29718	0.15915	0.28436	0.16763	1.05E-02	6.98E-07	3.26E-07	6.68E-07	3.30E-07	1.0466E-02
520029.89	4258618.37	60326.79516	1.58299	2.87004	2.1453	2.41176	1.05E-02	3.72E-06	5.89E-06	5.04E-06	4.75E-06	1.0488E-02
520454.88	4258888.07	60310.89067	0.32694	0.15978	0.31192	0.16844	1.05E-02	7.68E-07	3.28E-07	7.32E-07	3.32E-07	1.0463E-02
520316.15	425899.9	60256.17561	0.72732	0.18944	0.69196	0.20306	1.05E-02	1.71E-06	3.89E-07	1.62E-06	4.00E-07	1.0455E-02
520025.45	4258799.68	60235.81154	2.74633	0.68951	3.47487	0.66685	1.04E-02	6.45E-06	1.41E-06	8.16E-06	1.31E-06	1.0465E-02
520511.37	4258787.48	60224.54275	0.24389	0.162	0.23379	0.16932	1.04E-02	5.73E-07	3.32E-07	5.49E-07	3.33E-07	1.0447E-02
520017.31	4258755.94	60223.79578	2.10953	0.86781	2.66719	0.82666	1.04E-02	4.95E-06	1.78E-06	6.26E-06	1.63E-06	1.0460E-02
520403.27	4258253.33	60215.93819	0.21506	0.42514	0.22069	0.457	1.04E-02	5.05E-07	8.72E-07	5.18E-07	9.00E-07	1.0447E-02
520515	4258778.83	60122.96496	0.23907	0.1627	0.22919	0.1699	1.04E-02	5.61E-07	3.34E-07	5.38E-07	3.34E-07	1.0430E-02
520334.75	4258253.12	60074.56342	0.24242	0.64727	0.24921	0.70094	1.04E-02	5.69E-07	1.33E-06	5.85E-07	1.38E-06	1.0424E-02
520519.65	4258396.65	60054.19496	0.18697	0.22595	0.18567	0.23905	1.04E-02	4.39E-07	4.63E-07	4.36E-07	4.71E-07	1.0418E-02
520049.87	4258864.6	60052.19627	5.67077	0.53752	8.83531	0.51591	1.04E-02	1.33E-05	1.10E-06	2.07E-05	1.02E-06	1.0452E-02
520256.76	425903	60044.81827	1.11763	0.22724	1.05195	0.24022	1.04E-02	2.62E-06	4.66E-07	2.47E-06	4.73E-07	1.0421E-02
520104.49	4258937.11	60020.77732	9.91854	0.43878	8.4191	0.40577	1.04E-02	2.33E-05	9.00E-07	1.98E-05	7.99E-07	1.0456E-02
520496.52	4258820.8	60012.47659	0.26418	0.15951	0.25311	0.16733	1.04E-02	6.20E-07	3.27E-07	5.94E-07	3.29E-07	1.0411E-02
520395.29	4258952.77	60004.38903	0.45071	0.16684	0.42572	0.17646	1.04E-02	1.06E-06	3.42E-07	1.01E-06	3.47E-07	1.0410E-02
520266.66	4259002.98	59973.97724	1.0341	0.21914	0.9761	0.23166	1.04E-02	2.43E-06	4.49E-07	2.29E-06	4.58E-07	1.0408E-02
520246.86	4259003.02	59968.58496	1.2118	0.23585	1.13689	0.24801	1.04E-02	2.84E-06	4.84E-07	2.67E-06	4.88E-07	1.0408E-02
520295.57	4258262.99	59957.10428	0.26216	0.84725	0.26981	0.92655	1.04E-02	6.15E-07	1.74E-06	6.33E-07	1.82E-06	1.0404E-02
520345.84	4258982.85	59921.64882	0.60228	0.17796	0.57395	0.19007	1.04E-02	1.41E-06	3.65E-07	1.35E-06	3.74E-07	1.0397E-02
520365.62	4258972.82	59911.84877	0.53468	0.17245	0.5096	0.18356	1.04E-02	1.26E-06	3.54E-07	1.20E-06	3.61E-07	1.0395E-02
520518.62	4258770.18	59907.19542	0.23437	0.1633	0.22467	0.1704	1.04E-02	5.50E-07	3.35E-07	5.27E-07	3.35E-07	1.0392E-02
520099.3	4258422.38	59821.70777	0.50937	13.90391	0.54689	15.93435	1.04E-02	1.20E-06	2.85E-05	1.28E-06	3.14E-05	1.0438E-02
520518.51	4258386.15	59813.7668	0.18607	0.22853	0.18517	0.24182	1.04E-02	4.37E-07	4.69E-07	4.35E-07	4.76E-07	1.0376E-02
520017.12	4258673.87	59807.47258	1.66012	1.55246	2.11824	1.40835	1.04E-02	3.90E-06	3.18E-06	4.97E-06	2.77E-06

520315.18	4258253.05	58622.96968	0.24907	0.74003	0.25595	0.80474	1.02E-02	5.85E-07	1.52E-06	6.01E-07	1.58E-06	1.0172E-02
520355.74	4258982.84	58565.30284	0.56766	0.1732	0.54075	0.18473	1.02E-02	1.33E-06	3.55E-07	1.27E-06	3.64E-07	1.0161E-02
520049.6	4258550.4	58504.54961	1.18236	7.54373	1.50489	5.2306	1.01E-02	2.78E-06	1.55E-05	3.53E-06	1.03E-05	1.0179E-02
520529.48	4258744.23	58454.55511	0.22091	0.16427	0.21159	0.17135	1.01E-02	5.19E-07	3.37E-07	4.97E-07	3.37E-07	1.0140E-02
520051.23	4258875.15	58422.17105	5.97633	0.51423	9.63062	0.49323	1.01E-02	1.40E-05	1.05E-06	2.26E-05	9.71E-07	1.0172E-02
520524.27	4258441.57	58353.97248	0.19025	0.21565	0.18792	0.22779	1.01E-02	4.47E-07	4.42E-07	4.41E-07	4.48E-07	1.0123E-02
520013.53	4258746.84	58340.73755	1.91565	0.90432	1.39682	0.85773	1.01E-02	4.50E-06	1.85E-06	5.63E-06	1.69E-06	1.0133E-02
520018.01	4258781.76	58318.50919	2.26729	0.74366	2.81123	0.71613	1.01E-02	5.32E-06	1.53E-06	6.60E-06	1.41E-06	1.0130E-02
520335.95	4258992.87	58285.84273	0.64102	0.17901	0.61061	0.19153	1.01E-02	1.50E-06	3.67E-07	1.43E-06	3.77E-07	1.0113E-02
520477.85	4258288.64	58255.52816	0.1894	2.28812	0.18973	0.30565	1.01E-02	4.45E-07	5.91E-07	4.45E-07	6.02E-07	1.0106E-02
520207.26	4259003.08	58234.73666	1.74543	0.2749	1.60936	0.27965	1.01E-02	4.10E-06	5.64E-07	3.78E-06	5.50E-07	1.0110E-02
520375.52	4258972.8	58227.78853	0.50531	0.16798	0.48132	0.17855	1.01E-02	1.19E-06	3.45E-07	1.13E-06	3.51E-07	1.0102E-02
520207.35	4258302.72	58223.24539	0.31916	1.837	0.33817	2.07121	1.01E-02	7.49E-07	3.77E-06	7.94E-07	4.08E-06	1.0108E-02
520017.12	4258664.6	58187.86172	1.58231	1.66595	2.02276	1.49974	1.01E-02	3.71E-06	3.42E-06	4.75E-06	2.95E-06	1.0107E-02
520306.27	4259002.92	58186.01607	0.77778	0.19119	0.73885	0.20487	1.01E-02	1.83E-06	3.92E-07	1.73E-06	4.03E-07	1.0096E-02
520524.45	4258416.19	58167.17724	0.18701	0.21901	0.18509	0.2314	1.01E-02	4.39E-07	4.49E-07	4.35E-07	4.56E-07	1.0091E-02
520373.94	4258243.24	58146.60235	0.22291	0.5085	0.22949	0.54719	1.01E-02	5.23E-07	1.04E-06	5.39E-07	1.08E-06	1.0088E-02
520459.95	4258270.97	58127.85537	0.19423	0.31454	0.1961	0.33559	1.01E-02	4.56E-07	6.45E-07	4.60E-07	6.61E-07	1.0084E-02
520463.4	4258884.54	58118.53856	0.31393	0.15692	0.29963	0.16536	1.01E-02	7.37E-07	3.22E-07	7.03E-07	3.26E-07	1.0082E-02
520472.65	4258870.71	58077.78841	0.29954	0.15664	0.2863	0.16501	1.01E-02	7.03E-07	3.21E-07	6.72E-07	3.25E-07	1.0075E-02
520383.73	4258243.27	58053.81823	0.21916	0.47958	0.22559	0.51561	1.01E-02	5.15E-07	9.84E-07	5.30E-07	1.01E-06	1.0072E-02
520364.15	4258243.21	58044.0473	0.22651	0.54002	0.23316	0.58158	1.01E-02	5.32E-07	1.11E-06	5.47E-07	1.14E-06	1.0071E-02
520109.15	4258402.41	58017.62765	0.46145	9.8017	0.48933	11.79989	1.01E-02	1.08E-06	2.01E-05	1.15E-06	2.32E-05	1.0108E-02
520037.65	4258849.56	57968.82987	3.92074	0.55472	5.23294	0.5376	1.01E-02	9.20E-06	1.14E-06	1.23E-05	1.06E-06	1.0078E-02
520412.57	4258945.61	57952.45915	0.41032	0.16208	0.39138	0.17087	1.01E-02	9.63E-07	3.32E-07	9.19E-07	3.36E-07	1.0054E-02
520039.73	4258579.53	57942.50988	1.35497	4.68102	1.84768	3.58376	1.00E-02	3.18E-06	9.60E-06	4.34E-06	7.05E-06	1.0074E-02
520158.28	4258342.56	57844.71869	0.36811	3.44421	0.3884	3.98681	1.00E-02	8.64E-07	7.06E-06	9.12E-07	7.85E-06	1.0050E-02
520354.36	4258243.18	57834.69559	0.23004	0.57416	0.23665	0.61915	1.00E-02	5.40E-07	1.18E-06	5.56E-07	1.22E-06	1.0035E-02
520356.38	4258272.87	57834.48873	0.28115	1.15405	0.29281	1.2786	1.00E-02	6.60E-07	2.37E-06	6.87E-07	2.52E-06	1.0037E-02
520148.46	4258352.53	57830.77037	0.3813	4.03717	0.40117	4.71787	1.00E-02	8.95E-07	8.28E-06	9.42E-07	9.29E-06	1.0050E-02
520393.52	4258243.3	57821.53805	0.21535	0.4529	0.22152	0.48659	1.00E-02	5.06E-07	9.29E-07	5.20E-07	9.58E-07	1.0032E-02
520454.38	4258898.28	57782.7481	0.32883	0.15722	0.31353	0.16566	1.00E-02	7.72E-07	3.22E-07	7.36E-07	3.26E-07	1.0024E-02
520432.64	4258253.42	57775.27534	0.20227	0.36318	0.20643	0.38916	1.00E-02	4.75E-07	7.45E-07	4.85E-07	7.66E-07	1.0023E-02
520430.14	4258928.33	57761.76049	0.37346	0.15951	0.35557	0.16799	1.00E-02	8.77E-07	3.27E-07	8.35E-07	3.31E-07	1.0021E-02
520482.16	4258856.76	57752.49356	0.28556	0.15627	0.27335	0.16444	1.00E-02	6.70E-07	3.20E-07	6.42E-07	3.24E-07	1.0019E-02
520538.05	4258699.84	57737.18318	0.20786	0.1694	0.19959	0.17721	1.00E-02	4.88E-07	3.47E-07	4.69E-07	3.49E-07	1.0016E-02
520105.1	4258947.35	57715.93437	9.84747	0.42215	8.31439	0.3905	1.00E-02	2.31E-05	8.66E-07	1.95E-05	7.69E-07	1.0055E-02
520011.37	4258717.52	57705.59409	1.71294	1.08346	2.1246	1.01345	1.00E-02	4.02E-06	2.22E-06	4.99E-06	1.99E-06	1.0022E-02
520305.39	4258253.02	57683.13089	0.25213	0.7935	0.25934	0.86502	1.00E-02	5.92E-07	1.63E-06	6.09E-07	1.70E-06	1.0009E-02
520533.11	4258735.58	57668.50777	0.21663	0.16451	0.20754	0.17168	1.00E-02	5.09E-07	3.37E-07	4.87E-07	3.38E-07	1.0004E-02
520236.77	4258282.81	57637.57982	0.29425	1.37211	0.30898	1.52974	1.00E-02	6.91E-07	2.81E-06	7.25E-07	3.01E-06	1.0004E-02
520086.47	4258929.67	57523.21176	15.66034	0.4448	17.7428	0.41371	9.98E-03	3.68E-05	9.12E-07	4.17E-05	8.14E-07	1.0057E-02
520275.99	4258262.93	57490.54318	0.26797	0.98565	0.27727	1.0849	9.97E-03	6.29E-07	2.02E-06	6.51E-07	2.14E-06	9.9769E-03
520344.57	4258243.15	57482.89694	0.23347	0.6113	0.23998	0.66027	9.97E-03	5.48E-07	1.25E-06	5.63E-07	1.30E-06	9.9738E-03
520197.36	4259003.1	57467.10817	1.93841	0.28549	1.77764	0.28716	9.97E-03	4.55E-06	5.86E-07	4.17E-06	5.65E-07	9.9773E-03
520138.64	4258362.5	57445.63148	0.39439	4.82252	0.41414	5.68892	9.96E-03	9.26E-07	9.89E-06	9.72E-07	1.12E-05	9.9867E-03
520316.17	4259002.9	57443.95927	0.72834	0.1854	0.69238	0.19874	9.96E-03	1.71E-06	3.80E-07	1.63E-06	3.91E-07	9.9675E-03
520403.3	4258243.33	57437.01179	0.21146	0.42834	0.21728	0.45989	9.96E-03	4.96E-07	8.78E-07	5.10E-07	9.05E-07	9.9650E-03
520502	4258319	57288.18359	0.18347	0.25643	0.18321	0.27004	9.94E-03	4.31E-07	5.26E-07	4.30E-07	5.32E-07	9.9383E-03
520256.78	4259013	57287.34267	1.11932	0.22251	1.05347	0.23479	9.94E-03	2.63E-06	4.56E-07	2.47E-06	4.62E-07	9.9422E-03
520246.88	4259013.02	57251.41552	1.2139	2.03087	1.1389	2.04227	9.93E-03	2.85E-06	4.73E-07	2.67E-06	4.77E-07	9.9365E-03
520468.73	4258274.72	57240.25749	0.19091	0.30174	0.19222	0.3212	9.93E-03	4.48E-07	6.19E-07	4.51E-07	6.32E-07	9.9302E-03
520395.31	4258962.77	57218.03947	0.45184	0.16331	0.43062	0.17286	9.92E-03	1.06E-06	3.35E-07	1.01E-06	3.40E-07	9.9270E-03
520040.82	4258860.86	57215.39045	4.30631	0.53134	5.92596	0.51411	9.92E-03	1.01E-05	1.09E-06	1.39E-05	1.01E-06	9.9499E-03
520266.68	4259012.98	57180.51256	1.03549	0.21458	0.97714	0.22746	9.92E-03	2.43E-06	4.40E-07	2.29E-06	4.48E-07	9.9249E-03
520062.34	4258899.72	57151.61917	9.15261	0.47684	16.05601	0.45271	9.91E-03	2.15E-05	9.78E-07	3.77E-05	8.91E-07	9.9737E-03
520345.85	4258992.85	57144.16506	0.60323	0.1742	0.57471	0.18614	9.91E-03	1.42E-06	3.57E-07	1.35E-06	3.66E-07	9.9149E-03
520504.97	4258817.3	57138.00906	0.25453	0.15681	0.24391	0.16427	9.91E-03	5.98E-07	3.22E-07	5.73E-07	3.23E-07	9.9121E-03
520445.55	4258911.95	57125.97621	0.34427	0.15732	0.32794	0.16571	9.91E-03	8.08E-07	3.23E-07	7.70E-07	3.26E-07	9.9105E-03
520365.64	4258982.82	57116.00614	0.53571	0.16875	0.51027	0.17972	9.91E-03	1.26E-06	3.46E-07	1.20E-06	3.54E-07	9.9097E-03
520014.29	4258772.79	57027.0168	2.06299	0.77295	2.5388	0.74194	9.89E-03	4.84E-06	1.59E-06	5.96E-06	1.46E-06	9.9049E-03
520236.98	4259013.03	57024.14394	1.32098	0.23962	1.23473	0.24981	9.89E-03	3.10E-06	4.91E-07	2.90E-06	4.92E-07	9.8976E-03
520334.78	4258243.12	56978.27025	0.23675	0.65181	0.24321	0.70536	9.88E-03	5.56E-07	1.34E-06	5.71E-07	1.39E-06	9.8865E-03
520496.2	4258306.51	56969.14968	0.18411	0.26413	0.18367	0.27868	9.88E-03	4.32E-07	5.42E-07	4.31E-07	5.49E-07	9.8836E-03
520276.58	4259012.97	56958.11556	0.96075	0.20708	0.90851	0.22033	9.88E-03	2.26E-06	4.25E-07	2.13E-06	4.34E-07	9.8844E-03
520486.72	4258292.44	56928.73071	0.18603	0.27648	0.18589	0.29273	9.87E-03	4.37E-07	5.67E-07	4.36E-07	5.76E-07	9.8760E-03
520217.17	4258292.75	56900.82495	0.30684	1.66126	0.32453	1.86482	9.87E-03	7.20E-07	3.41E-06	7.62E-07	3.67E-06	9.8777E-03
520413.09	4258243.36	56880.08465	0.20749	0.40571	0.21292	0.43524	9.87E-03	4.87E-07	8.32E-07	5.00E-07	8.57E-07	9.8683E-03
520052.46	4258885.65	56759.42128	6.26509	0.4925	10.47565	0.4721	9.84E-03	1.47E-05	1.01E-06	2.46E-05	9.29E-07	9.8859E-03
520227.08	4259013.05	56752.64962	1.44424	0.24898	1.34468	0.25752	9.84E-03	3.39E-06	5.11E-07	3.16E-06	5.07E-07	9.8511E-03
520177.92	4258322.63	56740.21173	0.34179	2.61419	0.36282	2.97154	9.84E-03	8.02E-07	5.36E-06	8.52E-07	5.85E-06	9.8542E-03
520536.73	4258726.93	56722.75178	0.21249	0.1645	0.20361	0.17181	9.84E-03	4.99E-07	3.37E-07	4.78E-07	3.38E-07	9.8400E-03
520421.21	4258942.04	56721.43005	0.39198	0.15964	0.374	0.16811	9.84E-03	9.20E-07	3.27E-07	8.78E-07	3.31E-07	9.8405E-03
520029.85	4258608.67	56667.42939	1.43258	3.05372	1.9179	2.54288	9.83E-03	3.36E-06	6.26E-06	4.50E-06	5.01E-06	9.8478E-03
520295.6	4258252.99	56659.44609	0.25506	0.85251	0.26283	0.9321	9.83E-03	5.99E-07	1.75E-06	6.17E-07	1.83E-06	9.8321E-03
520442.43	4258253.45	56635.37232	0.19799	0.34559	0.20163	0.36984	9.82E-03	4.65E-07	7.09E-07	4.73E-07	7.28E-07	9.8255E-03
520286.48	4259012.95	56601.10453	0.89375	0.20006	0.84663	0.21348	9.82E-03	2.10E-06	4.10E-07	1.99E-06	4.20E-07	9.8225E-03
520525.39	4258470.4	56579.49844	0.19269	0.21012	0.18965	0.2223	9.81E-03	4.52E-07	4.31E-07	4.45E-07	4.38E-07	9.8152E-03
520187.46	4259003.12	56578.65129	2.1685	0.2961	1.9769	0.29424	9.81E-03	5.09E-06	6.07E-07	4.64E-06	5.79E-07	9.8242E-03
520326.07	4259002.89	56574.51594	0.68321	0.18014	0.64997	0.19301	9.81E-03	1.60E-06	3.69E-07	1.53E-06	3.80E-07	9.8165E-03
520128.82	4258372.47	56555.99102	0.40709	5.90104	0.42745	7.00157	9.81E-03	9.56E-07	1.21E-05	1.00E-06	1.38E-05	9.8372E-03
520096.17	4258943.67	56508.48178	12.94703	0.42555	11.28113	0.39433	9.80E-03	3.04E-05	8.73E-07	2.65E-05	7.76E-07	9.8597E-03
520385.42	4258972.79	56463.61346	0.47809	0.16383	0.45538	0.17385	9.79E-03	1.12E-06	3.36E-07	1.07E-06	3.42E-07	9.7962E-03
520451.12	4258257.17	56355.49635	0.19509	0.33033	0.19811	0.3531	9.77E-03	4.58E-07	6.77E-07	4.65E-07	6.95E-07	9.7769E-03
520403.88	4258959.22	56334.2741	0.43119	0.16104	0.41093	0.17015	9.77E-03	1.01E-06	3.30E-07	9.65E-07	3.35E-07	9.7736E-03
520325	4258243.08	56327.48117	0.23987	0.69606	0.24638	0.7549	9.77E-03	5.63E-07	1.43E-06	5.78E-07	1.49E-06	9.7738E-03
520022.15	4258815.84	56318.6066	2.58888	0.62587	3.23065	0.60742	9.77E-03	6.08E-06	1.28E-06	7.58E-06	1.20E-06	9.7843E-03
520494.57	4258841.62	56295.14169	0.26894	0.15493	0.25767	0.16271	9.76E-03	6.31E-07	3.18E-07	6.05E-07	3.20E-07	9.7660E-03
520114.51	4258961.23	56289.13152	7.53376	0.40029	6.39801	0.37107	9.76E-03	1.77E-05	8.21E-07	1.50E-05	7.30E-07	9.7974E-03
520527.85	4258425.11	56268.26537	0.18626	0.21487	0.18411	0.22688	9.76E-03	4.37E-07	4.41E-07	4.32E-07	4.47E-07	9.7613E-03
520217.18	4259013.07	56244.0665	1.58544	0.25856	1.46932	0.26502	9.76E-03	3.72E-06	5.30E-07	3.45E-06	5.22E-07	9.7635E-03
520017.12	4258655.32	56220.07633	1.49953	1.78457	1.91759	1.59487	9.75E-03	3.52E-06	3.66E-06	4.50E-06	3.14E-06	9.7659E-03
520187.74	4258312.66	56218.8975	0.32981	2.30899	0.35	2.61994	9.75E-03	7.74E-07	4.74E-06	8.22E-07	5.16E-06	9.7624E-03
520541.44	4258691.73	56204.97161	0.20425	0.16927	0.1962	0.17699	9.75E-03	4.80E-07	3.47E-07	4.61E-07	3.48E-07	9.7501E-03
520009.76	4258737.74	56175.10011	1.73775	0.94156	2.1517	0.88881	9.74E-03	4.08E-06	1.93E-06	5.05E-06	1.75E-06	9.7561E-03
520422.88	4258243.39	56172.08589	0.20348	0.38482	0.20847	0.41246	9.74E-03	4.78E-07	7.89E-07	4.89E-07	8.12E-07	9.7454E-03
520477.51	4258278.48	56169.30548	0.18759	0.2897	0.18836	0.30766	9.74E-03	4.40E-07	5.94E-07	4.42E-07	6.06E-07	9.7444E-03
520140.2	4258981.82	56165.98561	3.34414	0.36245	3.79007	0.34134	9.74E-03	1.02E-05	7.43E-07	8.90E-06	6.72E-07	9.7622E-03
520296.38	4259012.93	56125.70219	0.83337	0.19342	0.79036	0.20686	9.73E-03	1.96E-06	3.97E-07	1.86E-06	4.07E-07	9.7394E-03
520246.59	4258272.84	56061.10856	0.28294	1.25953	0.29629	1.39954	9.72E-03	6.64E-07	2.58E-06	6.96E-07	2.75E-06	9.7302E-03
520266.2	4258262.9	56042.30271	0.27034	1.06788	0.28096	1.17907	9.72E-03	6.35E-07	2.19E-06	6.60E-07	2.32E-06	9.7261E-03
520438.86	4258924.73	56006.34258	0.35714	0.34002	0.16499	0.71416	9.71E-03	8.38E-07	1.21E-07	7.98E-07	3.25E-07	9.7163E-03
520027.5	4258835.38	55982.13246	2.99278	0.57601	3.78373	0.56023	9.71E-03	7.03E-06	1.18E-06	8.88E-06	1.10E-06	9.7280E-03
520471.93	4258881.01	55924.82844	0.30168	0.15418	0.28811	0.16239	9.70E-03	7.08E-07	3.16E-07	6.76E-07	3.20E-07	9.7019E-03
520010.73	4258691.86	55892.38768	1.54426	1.2899	1.92483	1.18653	9.69E-03	3.63E-06	2.65E-06	4.52E-06	2.34E-06	9.7074E-03
520522.98	4258368.03	55888.84787	0.18117	0.22714	0.18075	0.24003	9.69E-03	4.25E-07	4.66E-07	4.24E-07	4.72E-07	9.6955E-03
520355.75	4258992.84	55884.57771	0.56853	0.1696	0.54154	0.18097	9.69E-03	1.33E-06	3.48E-07	1.27E-06	3.56E-07	9.6962E-03
520459.82	4258260.89	55857.72888	0.19207	0.31623	0.19446	0.33753	9.69E-03	4.51E-07	6.49E-07	4.57E-07	6.64E-07	9.6905E-03
520042.28	4258871.46	55845.68983	4.50945	0.50857	6.33086	0.49178	9.69E-03	1.06E-05	1.04E-06	1.49E-05	9.68E-07	9.7136E-03
520462.83	4258894.79	55775.2243	0.31583	0.15447	0.30126	0.16271	9.67E-03	7.41E-07	3.17E-07	7.07E-07	3.20E-07	9.6760E-03
520518.38	4258794.68	55761.86858	0.23802	0.15701	0.22817	0.16401	9.67E-03	5.59E-07	3.22E-07	5.36E-07	3.23E-07	9.6734E-03
520481.26	4258867.14	55716.15816	0.28792	0.15387	0.27535	0.16195	9.66E-03	6.76E-07	3.16E-07	6.46E-07	3.19E-07	9.6657E-03
520521.96	4258786.15	55683.61827	0.23349	0.15761	0.22381	0.16451	9.66E-03	5.48E-07	3.23E-07	5.25E-07	3.24E-07	9.6598E-03
520207.27	4259013.08	55651.95105	1.75042	0.26854	1.61422	0.27242	9.65E-03	4.11E-06	5.51E-07	3.79E-06	5.36E-07	9.6616E-03
520018.48	4258807	55645.58616	2.35913	0.64839	2.92373	0.62813	9.65E-03	5.54E-06	1.33E-06	6.86E-06	1.24E-06	9.6664E-03
520526.99	4258389.78	55638.43616	0.18219	0.22021	0.18091	0.23285	9.65E-03	4.28E-07	4.52E-07	4.25E-07	4.58E-07	9.6520E-03
520540.35	4258718.28	55618.53092	0.20849	0.16438	0.19984	0.17181	9.65E-03	4.89E-07	3.37E-07	4.69E-07	3.38E-07	9.6484E-03
520335.97	4259002.87	55598.81809	0.64192	0.17515	0.61089	0.1875	9.64E-03	1.51E-06	3.59E-07	1.43E-06	3.69E-07	9.6470E-03
520177.55	4259003.13	55588.47438	2.44821	0.30651	2.21714	0.30078	9.64E-03	5.75E-06	6.29E-07	5.21E-06	5.92E-07	9.6537E-03
520375.54	4258982.8	55565.28695	0.50624	0.16449	0.48213	0.17492	9.64E-03	1.19E-06	3.37E-07	1.13E-06	3.44E-07	9.6405E-03
520315.21	4258243.05	55525.25621	0.2428	0.74472	0.24959	0.80954	9.63E-03	5.70E-07	1.53E-06	5.86E-07	1.59E-06	9.6349E-03
520226.98	4258282.78	55518.47751	0.29511	1.51092	0.31148	1.68898	9.63E-03	6.93E-07	3.10E-06	7.31E-07	3.32E-06	9.6373E-03
520525.53	4258777.61	55515.6609	0.22904	0.15822	0.21954	0.16501	9.63E-03	5.38E-07	3.24E-07	5.15E-07	3.25E-07	9.6306E-03
520503.84	4258227.77	55510.17626	0.25702	0.15461	0.24633	0.16206	9.63E-03	6.03E-07	3.17E-07	5.78E-07	3.19E-07	9.6298E-03
520285.81	4258252.96	55497.129	0.25772	0.91819	0.26636	1.0069	9.63E-03	6.05E-07	1.88E-06	6.25E-07	1.98E-06	9.6308E-03
520306.28	4259012.92	55495.69075	0.77868	0.18721	0.73908	0.20051	9.63E-03	1.83E-06	3.84E-07	1.74E-06	3.95E-07	9.6298E-03
520010.58	4258763.83	55469.08837	1.87321	0.80399	2.29964	0.76835	9.62E-03	4.40E-06	1.65E-06	5.40E-06	1.51E-06	9.6338E-03
520525.94	4258379.31	55462.46055	0.1813	0.22262	0.18041	0.23539	9.62E-03	4.26E-07	4.57E-07	4.24E-07	4.63E-07	9.6215E-03
520197.56	4258302.69	55432.80448	0.31796	2.05783	0.33726	2.32715	9.61E-03	7.46E-07	4.22E-06	7.92E-07	4.58E-06	9.6249E-03
520087.24	4258939.98	55367.98779	15.32321	0.42726	17.03636	0.39759	9.60E-03	3.60E-05	8.76E-07	4.00E-05	7.83E-07	9.6810E-03
520345.87	4258955.67	55344.17464	0.41174	0.15883	0.39257	0.16753	9.60E-03	9.67E-07	3.26E-07	9.22E-07	3.30E-07	9.6017E-03
520521.76	4258357.5	55324.42432	0.18021	0.23006	0.18009	0.24282	9.60E-03	4.23E-07	4.72E-07	4.23E-07	4.78E-07	9.5976E-03
520105.65	4258957.57	55319.85693	9.63781	0.40572	8.17073	0.37565	9.59E-03	2.26E-05	8.32E-07	1.92E-05	7.39E-07	9.6384E-03
520473.97	4258233.24	55318.88772	0.21842	0.51246	0.22482	0.5506	9.59E-03	5.13E-07	1.05E-06	5.28E-07	1.08E-06	9.5984E-03
520495.6	4258296.23	55272.70413	0.1826	0.26582	0.18222	0.28077	9.59E-03	4.29E-07	5.45E-07	4.28E-07	5.53E-07	9.5888E-03
520432.67	4258243.42	55269.35837	0.19939	0.36562	0.20396	0.39142	9.59E-03	4.68E-07	7.50E-07	4.79E-07	7.71E-07	9.5887E-03
520383.76	4258233.27	55265.3729	0.21493	0.48337	0.22113	0.51882	9.58E-03	5.05E-07	9.91E-07	5.20E-07	1.02E-06	9.5886E-03
520490.86	4258853.16	55255.76993	0.27458	0.15351	0.26297	0.16135	9.58E-03	6.45E-07	3.15E-07	6.17E-07	3.18E-07	9.5858E-03
520429.85	4258938.46	55255.44435	0.37515	0.15663	0.35708	0.16493	9.58E-03	8.81E-07	3.21E-07	8.38E-07	3.25E-07	9.5862E-03
520453.93	4258908.48	55247.95448	0.33032	0.15458	0.31475	0.16278	9.58E-03	7.75E-07	3.17E-07	7.39E-07	3.20E-07	9.5847E-03
520529.1	4258769.08	55240.90524	0.22471	0.15862	0.21529	0.16535	9.58E-03	5.28E-07	3.25E-07	5.05E-07	3.25E-07	9.5830E-03
520364.18	4258233.21	55211.0645	0.22178	0.54404	0.22814	0.5852	9.58E-03	5.21E-07	1.12E-06	5.36E-07	1.15E-06	9.5794E-03
520059.48	4258521.27	55174.71735	0.9535	13.20721	1.12797	7.76162	9.57E-03	2.24E-06	2.71E-05	2.65E-06	1.53E-05	9.6171E-03
520119	4258382.44	55120.09386	0.41956	7.43683	0.44093	8.97942	9.56E-03	9.85E-07	1.53E-05	1.04E-06	1.77E-05	9.5953E-03
520393.55	4258233.3	55114.21399	0.21142	0.45643	0.21761	0.4896	9.56E-03	4.96E-07	9.36E-07	5.11E-07	9.64E-07	9.5622E-03
520468.51	4258264.61	55109.86718	0.18895	0.30334	0.19076	0.32313	9.56E-03	4.44E-07	6.22E-07	4.48E-07	6.36E-07	9.5607E-03
520053.57	4258896.1	55084.76948	6.56251	0.47211	11.38423	0.45235	9.55E-03	1.54E-05	9.68E-07	2.67E-05	8.90E-07	9.5982E-03
520486.29	4258282.24	55030.58841	0.18437	0.27804	0.18457	0.29473	9.54E-03	4.33E-07	5.70E-07	4.33E-07

520187.47	4259013.12	54119.0162	2.17614	0.28876	1.98433	0.28616	9.39E-03	5.11E-06	5.92E-07	4.66E-06	5.63E-07	9.3976E-03
520334.82	4258233.12	54078.7613	0.23118	0.65604	0.23742	0.70947	9.38E-03	5.43E-07	1.35E-06	5.57E-07	1.40E-06	9.3836E-03
520451.08	4258247.14	54075.35954	0.19268	0.33234	0.19616	0.35514	9.38E-03	4.52E-07	6.82E-07	4.61E-07	6.99E-07	9.3814E-03
520149.52	4258995.67	54073.61223	3.68338	0.33976	3.25293	0.32266	9.38E-03	8.65E-06	6.97E-07	7.64E-06	6.35E-07	9.3964E-03
520286.5	4259022.95	54042.35966	0.89464	0.196	0.84688	0.2089	9.37E-03	2.10E-06	4.02E-07	1.99E-06	4.11E-07	9.3783E-03
520326.08	4259012.89	54010.12892	0.68405	0.17624	0.64992	0.18888	9.37E-03	1.61E-06	3.61E-07	1.53E-06	3.72E-07	9.3717E-03
520531.6	4258409.1	53984.24051	0.18228	0.21374	0.18035	0.22572	9.36E-03	4.28E-07	4.38E-07	4.23E-07	4.44E-07	9.3651E-03
520017.12	4258646.05	53967.56951	1.41155	1.90682	1.80477	1.69131	9.36E-03	3.31E-06	3.91E-06	4.24E-06	3.33E-06	9.3752E-03
520385.44	4258982.79	53916.18569	0.479	0.16041	0.45612	0.17033	9.35E-03	1.12E-06	3.29E-07	1.07E-06	3.35E-07	9.3544E-03
520471.28	4258891.29	53848.75812	0.30366	0.15188	0.28986	0.15991	9.34E-03	7.13E-07	3.11E-07	6.80E-07	3.15E-07	9.3418E-03
520011.14	4258789.3	53805.49525	1.98003	0.69627	2.41165	0.67137	9.33E-03	4.65E-06	1.43E-06	5.66E-06	1.32E-06	9.3454E-03
520403.83	4258969.25	53790.40734	0.43242	0.15764	0.41177	0.16672	9.33E-03	1.02E-06	3.23E-07	9.67E-07	3.28E-07	9.3323E-03
520217.19	4259023.07	53787.7566	1.58822	0.25283	1.47242	0.25845	9.33E-03	3.73E-06	5.19E-07	3.46E-06	5.09E-07	9.3375E-03
520480.45	4258877.48	53759.34302	0.29009	0.1515	0.27721	0.15947	9.32E-03	6.81E-07	3.11E-07	6.51E-07	3.14E-07	9.3263E-03
520112.75	4258970.5	53737.75876	0.87503	0.38687	0.6966	0.35868	9.32E-03	1.85E-05	7.93E-07	1.57E-05	7.06E-07	9.3563E-03
520422.91	4258233.39	53728.94688	0.20035	0.38751	0.20509	0.41486	9.32E-03	4.70E-07	7.95E-07	4.83E-07	8.17E-07	9.3216E-03
520539.82	4258743.47	53721.31583	0.21222	0.15953	0.20323	0.1663	9.32E-03	4.98E-07	3.27E-07	4.77E-07	3.27E-07	9.3193E-03
520005.99	4258728.64	53703.78316	1.57224	0.97872	1.92789	0.91919	9.31E-03	3.69E-06	2.01E-06	4.53E-06	1.81E-06	9.3267E-03
520459.7	4258250.83	53677.71601	0.18987	0.31812	0.19276	0.33954	9.31E-03	4.46E-07	6.52E-07	4.53E-07	6.68E-07	9.3124E-03
520295.63	4258242.99	53604.11725	0.24818	0.85747	0.2562	0.93728	9.30E-03	5.83E-07	1.76E-06	6.01E-07	1.85E-06	9.3022E-03
520438.49	4258934.88	53602.84072	0.35876	0.15396	0.34145	0.16204	9.30E-03	8.42E-07	3.16E-07	8.02E-07	3.19E-07	9.2994E-03
520296.4	4259022.93	53596.15361	0.83417	0.18953	0.79051	0.2025	9.30E-03	1.96E-06	3.89E-07	1.86E-06	3.99E-07	9.3006E-03
520495.06	4258285.99	53585.14354	0.18108	0.26734	0.1809	0.28274	9.29E-03	4.25E-07	5.48E-07	4.25E-07	5.57E-07	9.2961E-03
520519.84	4258336.65	53573.26708	0.17792	0.23549	0.17797	0.2478	9.29E-03	4.18E-07	4.83E-07	4.18E-07	4.88E-07	9.2938E-03
520006.86	4258754.86	53564.82096	1.68996	0.83626	2.07927	0.79457	9.29E-03	3.97E-06	1.72E-06	4.88E-06	1.56E-06	9.3027E-03
520462.31	4258905.01	53542.38223	0.31757	0.15204	0.30277	0.16007	9.29E-03	7.46E-07	3.12E-07	7.11E-07	3.15E-07	9.2888E-03
520531.22	4258459.82	53523.11921	0.18823	0.2074	0.18542	0.2191	9.28E-03	4.42E-07	4.25E-07	4.35E-07	4.31E-07	9.2851E-03
520489.86	4258863.58	53430.41337	0.27695	0.15123	0.26504	0.15902	9.27E-03	6.50E-07	3.10E-07	6.22E-07	3.13E-07	9.2692E-03
520325.03	4258233.08	53424.24383	0.23403	0.7004	0.24045	0.75921	9.27E-03	5.49E-07	1.44E-06	5.64E-07	1.49E-06	9.2702E-03
520148.49	4258342.53	53417.9575	0.36086	4.0575	0.37792	4.73336	9.27E-03	8.47E-07	8.32E-06	8.87E-07	9.32E-06	9.2845E-03
520504.47	4258300.03	53400.32952	0.17918	0.25584	0.1787	0.26961	9.26E-03	4.21E-07	5.25E-07	4.20E-07	5.31E-07	9.2639E-03
520355.77	4259002.84	53346.95439	0.56936	0.16596	0.54173	0.1772	9.25E-03	1.34E-06	3.40E-07	1.27E-06	3.49E-07	9.2561E-03
520087.95	4258950.27	53298.27414	16.50572	0.41077	16.44111	0.38246	9.24E-03	3.88E-05	8.42E-07	3.86E-05	7.53E-07	9.3233E-03
520217.2	4258282.75	53276.37	0.29508	1.6721	0.31255	1.87362	9.24E-03	6.93E-07	3.43E-06	7.34E-07	3.69E-06	9.2491E-03
520207.29	4259023.08	53274.97654	1.75388	0.26248	1.61844	0.26552	9.24E-03	4.12E-06	5.38E-07	3.80E-06	5.23E-07	9.2493E-03
520033.34	4258867.77	53249.14449	3.53878	0.50332	4.61327	0.4897	9.24E-03	8.31E-06	1.03E-06	1.08E-05	9.64E-07	9.2570E-03
520039.69	4258569.84	53207.87675	1.2109	4.86356	1.59274	3.7197	9.23E-03	2.84E-06	9.97E-06	3.74E-06	7.32E-06	9.2525E-03
520177.57	4259013.13	53197.21512	2.45643	0.29855	2.22534	0.29226	9.23E-03	5.77E-06	6.12E-07	5.22E-06	5.75E-07	9.2390E-03
520485.9	4258272.06	53194.3661	0.18273	2.27909	0.18331	2.09628	9.23E-03	4.29E-07	4.30E-07	5.72E-07	5.83E-07	9.2283E-03
520168.13	4258322.6	53169.01698	0.33731	3.00231	0.35601	3.42576	9.22E-03	7.92E-07	6.16E-06	8.36E-07	6.74E-06	9.2365E-03
520335.99	4259012.87	53096.19728	0.64271	0.17135	0.6108	0.18352	9.21E-03	1.51E-06	3.51E-07	1.43E-06	3.61E-07	9.2129E-03
520375.56	4258992.8	53059.77155	0.5071	0.16101	0.48262	0.17133	9.20E-03	1.19E-06	3.30E-07	1.13E-06	3.37E-07	9.2060E-03
520468.31	4258254.52	53043.61475	0.18692	0.30508	0.18926	0.32506	9.20E-03	4.39E-07	6.26E-07	4.44E-07	6.40E-07	9.2023E-03
520306.3	4259022.92	53027.64203	0.77944	0.18346	0.7392	0.19636	9.20E-03	1.83E-06	3.76E-07	1.74E-06	3.87E-07	9.2017E-03
520547.59	4258700.97	52990.64375	0.20083	0.16422	0.19273	0.17166	9.19E-03	4.71E-07	3.37E-07	4.52E-07	3.38E-07	9.1926E-03
520177.95	4258312.63	52979.38933	0.3264	2.6264	0.34499	2.99029	9.19E-03	7.66E-07	5.39E-06	8.10E-07	5.89E-06	9.2019E-03
520044.8	4258892.48	52967.57124	4.93667	0.46711	7.16145	0.45128	9.19E-03	1.16E-05	9.58E-07	1.68E-05	8.88E-07	9.2172E-03
520512.2	4258824.31	52963.85553	0.24788	0.15201	0.23761	0.15914	9.19E-03	5.82E-07	3.12E-07	5.58E-07	3.13E-07	9.1881E-03
520432.7	4258233.42	52952.63398	0.19652	0.36798	0.20137	0.39359	9.18E-03	4.61E-07	7.55E-07	4.73E-07	7.75E-07	9.1869E-03
520543.4	4258734.94	52949.99644	0.20826	0.15957	0.19945	0.16646	9.18E-03	4.89E-07	3.27E-07	4.68E-07	3.28E-07	9.1855E-03
520138.67	4258352.5	52933.44513	0.37227	4.84359	0.38911	5.70705	9.18E-03	8.74E-07	9.93E-06	9.14E-07	1.12E-05	9.2040E-03
520109.18	4258392.41	52924.318	0.43063	9.82729	0.4548	11.84313	9.18E-03	1.01E-06	2.02E-05	1.07E-06	2.33E-05	9.2250E-03
520029.81	4258598.97	52884.42774	1.29539	3.21443	1.71407	2.65889	9.17E-03	3.04E-06	6.59E-06	4.02E-06	5.23E-06	9.1915E-03
520266.23	4258252.9	52872.67757	0.26217	1.07409	0.27326	1.18533	9.17E-03	6.15E-07	2.20E-06	6.42E-07	2.33E-06	9.1763E-03
520429.59	4258948.58	52871.41079	0.3767	0.15374	0.35845	0.16188	9.17E-03	8.84E-07	3.15E-07	8.42E-07	3.19E-07	9.1727E-03
520412.34	4258965.73	52866.42353	0.41317	0.1555	0.39347	0.16418	9.17E-03	9.70E-07	3.19E-07	9.24E-07	3.23E-07	9.1720E-03
520499.55	4258849.56	52840.19078	0.26423	0.15082	0.25314	0.15834	9.16E-03	6.20E-07	3.09E-07	5.94E-07	3.12E-07	9.1667E-03
520246.62	4258262.84	52797.09305	0.27367	1.2669	0.28736	1.40697	9.16E-03	6.42E-07	2.60E-06	6.75E-07	2.77E-06	9.1641E-03
520103.61	4258966.72	52765.92673	10.1761	0.39125	8.69025	0.36269	9.15E-03	2.39E-05	8.02E-07	2.04E-05	7.14E-07	9.1978E-03
520383.79	4258223.27	52693.7461	0.21077	0.48693	0.21695	0.52189	9.14E-03	4.95E-07	9.99E-07	5.09E-07	1.03E-06	9.1425E-03
520374	4258223.24	52665.99325	0.21395	0.51624	0.22012	0.55182	9.13E-03	5.02E-07	1.06E-06	5.17E-07	1.09E-06	9.1378E-03
520315.24	4258233.05	52633.38288	0.23669	0.74913	0.24353	0.81401	9.13E-03	5.56E-07	1.54E-06	5.72E-07	1.60E-06	9.1333E-03
520197.39	4259023.1	52630.88976	1.94881	0.27216	1.78884	0.27222	9.13E-03	4.58E-06	5.58E-07	4.20E-06	5.36E-07	9.1385E-03
520514.15	4258314.19	52627.47405	0.17709	0.24417	0.17673	0.25678	9.13E-03	4.16E-07	5.01E-07	4.15E-07	5.05E-07	9.1298E-03
520007.47	4258780.46	52597.54505	1.81517	0.7217	2.19534	0.69373	9.12E-03	4.26E-06	1.48E-06	5.15E-06	1.37E-06	9.1351E-03
520393.58	4258223.3	52568.44161	0.20748	0.45987	0.21361	0.49248	9.12E-03	4.87E-07	9.43E-07	5.01E-07	9.69E-07	9.1207E-03
520364.21	4258223.21	52566.05598	0.21711	0.54783	0.22317	0.58863	9.12E-03	5.10E-07	1.12E-06	5.24E-07	1.16E-06	9.1207E-03
520059.43	4258918.51	52537.50618	8.30808	0.4369	18.78784	0.41671	9.11E-03	1.95E-05	8.96E-07	4.41E-05	8.20E-07	9.1777E-03
520285.84	4258242.96	52495.07635	0.25056	0.92333	0.25955	1.01236	9.11E-03	5.88E-07	1.89E-06	6.09E-07	1.99E-06	9.1101E-03
520187.77	4258302.66	52447.34572	0.31536	2.32254	0.3339	2.63168	9.10E-03	7.40E-07	4.76E-06	7.84E-07	5.18E-06	9.1082E-03
520403.37	4258223.33	52371.39693	0.20418	0.43471	0.2101	0.46538	9.08E-03	4.79E-07	8.92E-07	4.93E-07	9.16E-07	9.0864E-03
520456.29	4258917.51	52369.84253	0.32732	0.15115	0.3118	0.15907	9.08E-03	7.68E-07	3.10E-07	7.32E-07	3.13E-07	9.0854E-03
520049.56	4258540.7	52344.02875	1.03533	7.62916	1.2709	5.3466	9.08E-03	2.43E-06	1.56E-05	2.98E-06	1.05E-05	9.1104E-03
520534.94	4258417.86	52330.15172	0.18154	0.20985	0.17939	0.22144	9.08E-03	4.26E-07	4.30E-07	4.21E-07	4.36E-07	9.0781E-03
520354.42	4258223.18	52305.21392	0.22013	0.58213	0.22611	0.62656	9.07E-03	5.17E-07	1.19E-06	5.31E-07	1.23E-06	9.0756E-03
520316.2	4259022.9	52304.18117	0.72959	0.17776	0.6922	0.19046	9.07E-03	1.71E-06	3.65E-07	1.63E-06	3.75E-07	9.0760E-03
520476.93	4258258.21	52259.10792	0.18393	0.29283	0.1857	0.31146	9.06E-03	4.32E-07	6.01E-07	4.36E-07	6.13E-07	9.0662E-03
520015.13	4258823.02	52252.81191	2.24438	0.59076	2.73789	0.57439	9.06E-03	5.27E-06	1.21E-06	6.43E-06	1.13E-06	9.0771E-03
520049.2	4258904.29	52229.04617	5.72055	0.45004	8.91349	0.43333	9.06E-03	1.34E-05	9.23E-07	2.09E-05	8.53E-07	9.0950E-03
520256.81	4259033	52187.50346	1.12134	0.25323	1.05434	0.2242	9.05E-03	2.63E-06	4.37E-07	2.48E-06	4.41E-07	9.0577E-03
520534.65	4258442.96	52161.93531	0.18452	0.20707	0.18201	0.21849	9.05E-03	4.33E-07	4.25E-07	4.27E-07	4.30E-07	9.0490E-03
520266.71	4259032.98	52161.39039	1.03758	0.20588	0.97815	0.21753	9.05E-03	2.44E-06	4.22E-07	2.30E-06	4.28E-07	9.0527E-03
520531.95	4258371.87	52160.98345	0.17731	0.21829	0.17651	0.23064	9.05E-03	4.16E-07	4.48E-07	4.14E-07	4.54E-07	9.0488E-03
520227.02	4258272.78	52160.46211	0.2845	1.51982	0.30077	1.69736	9.05E-03	6.68E-07	3.12E-06	7.06E-07	3.34E-06	9.0548E-03
520246.91	4259033.02	52158.56943	1.2162	0.22111	1.14031	0.23112	9.05E-03	2.86E-06	4.53E-07	2.68E-06	4.55E-07	9.0531E-03
520395.34	4258982.77	52155.39248	0.45387	0.15639	0.43183	0.16583	9.05E-03	1.07E-06	3.21E-07	1.01E-06	3.26E-07	9.0488E-03
520167.67	4259013.15	52150.79861	2.79852	0.30764	2.51735	0.29757	9.05E-03	6.57E-06	6.31E-07	5.91E-06	5.86E-07	9.0590E-03
520442.49	4258233.45	52104.8772	0.19273	0.34973	0.1971	0.37383	9.04E-03	4.52E-07	7.17E-07	4.63E-07	7.36E-07	9.0397E-03
520345.89	4259002.85	52085.90549	0.60481	0.1668	0.57493	0.17845	9.03E-03	1.42E-06	3.42E-07	1.35E-06	3.51E-07	9.0375E-03
520365.67	4259002.82	52077.93488	0.53737	0.16171	0.51118	0.17242	9.03E-03	1.26E-06	3.32E-07	1.20E-06	3.39E-07	9.0358E-03
520034.75	4258878.34	52059.04821	3.69518	0.48221	4.86576	0.46908	9.03E-03	8.68E-06	9.89E-07	1.14E-05	9.23E-07	9.0514E-03
520546.97	4258726.4	52046.27685	0.20442	0.15946	0.1958	0.16649	9.03E-03	4.80E-07	3.27E-07	4.60E-07	3.28E-07	9.0288E-03
520020.34	4258842.42	52037.74906	2.5567	0.54539	3.15349	0.53178	9.03E-03	6.00E-06	1.12E-06	7.40E-06	1.05E-06	9.0413E-03
520237.01	4259033.03	52027.95404	1.32402	0.22943	1.23738	0.23813	9.02E-03	3.11E-06	4.71E-07	2.90E-06	4.69E-07	9.0310E-03
520128.85	4258362.47	52024.00474	0.38325	5.92358	0.40067	7.02607	9.02E-03	9.00E-07	1.21E-05	9.41E-07	1.38E-05	9.0511E-03
520530.6	4258361.28	51965.60785	0.17651	0.22109	0.17608	0.23341	9.01E-03	4.14E-07	4.53E-07	4.13E-07	4.59E-07	9.0149E-03
520451.47	4258237.29	51960.31983	0.19014	0.33347	0.19395	0.35623	9.01E-03	4.46E-07	6.84E-07	4.55E-07	7.01E-07	9.0146E-03
520276.61	4259032.97	51959.98386	0.96259	0.19884	0.90928	0.21094	9.01E-03	2.26E-06	4.08E-07	2.13E-06	4.15E-07	9.0174E-03
520158.68	4259009.44	51954.89706	3.17876	0.31851	2.83875	0.30509	9.01E-03	7.46E-06	6.53E-07	6.66E-06	6.01E-07	9.0267E-03
520413.16	4258223.36	51938.97954	0.20068	0.41164	0.20641	0.44032	9.01E-03	4.71E-07	8.44E-07	4.85E-07	8.67E-07	9.0112E-03
520503.84	4258289.75	51937.56694	0.17777	0.25747	0.17738	0.27163	9.01E-03	4.17E-07	5.28E-07	4.16E-07	5.35E-07	9.0102E-03
520447.13	4258931.31	51935.67111	0.34331	0.15129	0.32681	0.15918	9.01E-03	8.06E-07	3.10E-07	7.67E-07	3.13E-07	9.0102E-03
520494.59	4258275.78	51930.65186	0.17954	0.26867	0.17968	0.28452	9.01E-03	4.22E-07	5.51E-07	4.22E-07	5.60E-07	9.0091E-03
520094.46	4258962.95	51925.37528	13.68566	0.39444	12.14811	0.36641	9.01E-03	3.21E-05	8.09E-07	2.85E-05	7.21E-07	9.0684E-03
520479.72	4258887.79	51889.70253	0.29201	0.14953	0.27916	0.15731	9.00E-03	6.86E-07	3.07E-07	6.55E-07	3.10E-07	9.0020E-03
520019.93	4258628.11	51863.93831	1.32087	2.24134	1.70421	1.94819	9.00E-03	3.10E-06	4.60E-06	4.00E-06	3.83E-06	9.0111E-03
520344.64	4258223.15	51860.30452	0.22294	0.61948	0.22897	0.66789	8.99E-03	5.23E-07	1.27E-06	5.38E-07	1.31E-06	8.9986E-03
520187.49	4259023.12	51854.65768	2.18105	0.2817	1.99037	0.27846	8.99E-03	5.12E-06	5.78E-07	4.67E-06	5.48E-07	9.0049E-03
520420.85	4258962.2	51829.59005	0.39513	0.15333	0.37623	0.16164	8.99E-03	9.28E-07	3.14E-07	8.83E-07	3.18E-07	8.9920E-03
520113.27	4258980.7	51821.79389	7.89723	0.37383	6.66998	0.34655	8.99E-03	1.85E-05	7.67E-07	1.57E-05	6.82E-07	9.0239E-03
520197.59	4258292.69	51804.50569	0.30468	2.07052	0.32281	2.33741	8.99E-03	7.15E-07	4.25E-06	7.58E-07	4.60E-06	8.9956E-03
520007.12	4258683.15	51795.19095	1.17204	1.32904	1.6948	1.21691	8.98E-03	3.22E-06	2.73E-06	3.98E-06	2.40E-06	8.9960E-03
520525.4	4258801.87	51774.07296	0.23236	0.15207	0.22269	0.15879	8.98E-03	5.46E-07	3.12E-07	5.23E-07	3.13E-07	8.9817E-03
520227.11	4259033.05	51773.26276	1.44734	0.23812	1.3476	0.24511	8.98E-03	3.40E-06	4.88E-07	3.16E-06	4.82E-07	8.9874E-03
520470.69	4258901.54	51771.97826	0.3054	0.14951	0.29135	0.15734	8.98E-03	7.17E-07	3.07E-07	6.84E-07	3.10E-07	8.9816E-03
520305.45	4258233.02	51756.46872	0.23922	0.80275	0.24669	0.8747	8.98E-03	5.62E-07	1.65E-06	5.79E-07	1.72E-06	8.9814E-03
520534.32	4258382.9	51728.63554	0.17759	0.2147	0.17634	0.22687	8.97E-03	4.17E-07	4.40E-07	4.14E-07	4.47E-07	8.9738E-03
520528.93	4258793.43	51719.30066	0.22807	0.15266	0.21857	0.15929	8.97E-03	5.35E-07	3.13E-07	5.13E-07	3.14E-07	8.9722E-03
520149.69	4259005.73	51684.17746	3.65988	0.32897	3.24065	0.31221	8.96E-03	8.59E-06	6.75E-07	7.61E-06	6.15E-07	8.9819E-03
520286.51	4259032.95	51649.89643	0.89537	0.19214	0.84701	0.20452	8.96E-03	2.10E-06	3.94E-07	1.99E-06	4.03E-07	8.9633E-03
520003.14	4258745.9	51643.42803	1.54648	0.86765	1.88355	0.82097	8.96E-03	3.63E-06	1.78E-06	4.42E-06	1.62E-06	8.9688E-03
520488.97	4258873.96	51642.74893	0.27914	0.14893	0.26693	0.15663	8.96E-03	6.55E-07	3.05E-07	6.27E-07	3.08E-07	8.9591E-03
520460.45	4258241.14	51603.4084	0.18738	0.31853	0.19063	0.33991	8.95E-03	4.40E-07	6.53E-07	4.48E-07	6.69E-07	8.9526E-03
520011.5	4258814.28	51587.76101	2.06004	0.61102	2.50103	0.59283	8.95E-03	4.84E-06	1.25E-06	5.87E-06	1.17E-06	8.9608E-03
520532.46	4258785	51585.3233	0.22385	0.15133	0.21455	0.15983	8.95E-03	5.26E-07	3.14E-07	5.04E-07	3.15E-07	8.9489E-03
520326.1	4259022.89	51546.71655	0.68439	0.17253	0.6495	0.18491	8.94E-03	1.61E-06	3.54E-07	1.52E-06	3.64E-07	8.9444E-03
520529.45	4258350.78	51534.27337	0.17559	0.22377	0.1754	0.23595	8.94E-03	4.12E-07	4.59E-07	4.12E-07	4.64E-07	8.9401E-03
520385.46	4258992.79	51522.71008	0.47982	0.15705	0.45662	0.16687	8.94E-03	1.13E-06	3.22E-07	1.07E-06	3.28E-07	8.9392E-03
520551.22	4258692.32	51497.93615	0.19717	0.16419	0.18933	0.17151	8.93E-03	4.63E-07	3.37E-07	4.44E-07	3.38E-07	8.9337E-03
520017.12	4258636.77	51496.34068	1.31954	2.02975	1.68549	1.78629	8.93E-03	3.10E-06	4.16E-06	3.96E-06	3.52E-06	8.9465E-03
520022.72	4258853.39	51493.17727	2.71947	0.5215	3.5783	0.50893	8.93E-03	6.38E-06	1.07E-06	7.93E-06	1.00E-06	8.9476E-03
520511.13	4258834.76	51485.41954	0.2502	0.14979	0.23979	0.15692	8.93E-03	5.87E-07	3.07E-07	5.63E-07	3.09E-07	8.9317E-03
520485.55	4258261.89	51427.13856	0.181	0.28097	0.1821	0.29846	8.92E-03	4.25E-07	5.76E-07	4.28E-07	5.88E-07	8.9218E-03
520217.21	4259033.07	51411.27756	1.58964	0.24714	1.47760	0.252	8.92E-03	3.73E-06	5.07E-07	3.46E-06	4.96E-07	8.9252E-03
520403.79	4258979.27	51410.35652	0.43352	0.15425	0.41242	0.16329	8.92E-03	1.02E-06	3.16E-07	9.68E-07	3.21E-07	8.9195E-03
520256.44	4258252.87	51393.36114	0.26375	1.16754	0.27629	1.29228	8.91E-03	6.19E-07	2.39E-06	6.49E-07	2.54E-06	8.9202E-03
520513.34	4258303.83	51390.38429	0.1758	0.24625	0.17533	0.25902	8.91E-03	4.13E-07	5.05E-07	4.12E-07	5.10E-07	8.9153E-03
520422.94	4258223.39	51389.70531	0.19714	0.39028	0.20259	0.41718	8.91E-03	4.63E-07	8.00E-07	4.76E-07	8.21E-07	8.9159E-03
520140.71	4259002.02	51382.53332	4.29441	0.33894	3.76041	0.31895	8.91E-03	1.01E-05	6.95E-07	8.83E-06	6.28E-07	8.9323E-03
520535.99	4258776.56	51368.47685	0.21971	0.15139	0.21058	0.16032	8.91E-03	5.16E-07	3.16E-07	4.94E-07	3.16E-07	8.9113E-03
520438.16	4258945.03	51356.61052	0.36031	0.15123	0.34285	0.15913	8.91E-03	8.46E-07	3.10E-07	8.05E-07	3.13E-07	8.9098E-03
520334.85	4258223.12	51355.84737	0.22573	0.66005	0.23186	0.71333	8.91E-03	5.30E-07	1.35E-06	5.44E-07	1.40E-06	8.9113E-03
520004.25	4258700.34	51337.42457	1.38572	1.16109	1.69441	1.07433	8.90E-03	3.25E-06	2.38E-06	3.98E-06	2.11E-06	8.9160E-03
520276.05	4258242.93	51285.56373	0.25264	0.99701	0.26282	1.09652	8.90E-03	5.93E-07	2.04E-06	6.17E-07	2.16E-06	8.9007E-03
520296.42	4259032.93	51231.94341	0.83473	0.18577	0.79036	0.19827	8.89E-03	1.96E-06	3.81E-07	1.86E-06	3.90E-07	8.8905E-03
520498.46	4258860.02	51218.71692	0.26657	0.14867	0.25531	0.15615	8.88E-03	6.26E-07	3.05E-07	5.99E-07	3.07E-07	8.8855E-03
520003.81	4258771.61	51181.73719	1.66241	0.7483	2.002	0.71654	8.88E-03	3.90E-06	1.53E-06	4.70E-06	1.41E-06	8.8888E-03
520534.69	4258468.95	51082.91247	0.18702	0.20315	0.18388	0.21469	8.86E-03	4.39E-07	4.17E-07	4.32E-

520040.1	4258900.54	50186.90411	4.32893	0.44531	5.9603	0.43208	8.70E-03	1.02E-05	9.13E-07	1.40E-05	8.51E-07	8.7306E-03
520546.59	4258751.26	50135.92322	0.20782	0.15494	0.19907	0.16132	8.70E-03	4.88E-07	3.18E-07	4.67E-07	3.18E-07	8.6974E-03
520364.24	4258213.21	50124.80387	0.21259	0.55128	0.21832	0.59191	8.69E-03	4.99E-07	1.13E-06	5.13E-07	1.17E-06	8.6972E-03
520512.62	4258293.51	50087.11755	0.17445	0.24812	0.174	0.26111	8.69E-03	4.10E-07	5.09E-07	4.08E-07	5.14E-07	8.6892E-03
520316.22	4259032.9	50052.05277	0.73016	0.17428	0.69214	0.18663	8.68E-03	1.71E-06	3.57E-07	1.62E-06	3.67E-07	8.6854E-03
520217.23	4258272.75	50047.74357	0.28405	1.68176	0.30095	1.8825	8.68E-03	6.67E-07	3.45E-06	7.07E-07	3.71E-06	8.6891E-03
520442.52	4258223.45	50027.51265	0.19005	0.35187	0.19467	0.37578	8.68E-03	4.46E-07	7.22E-07	4.57E-07	7.40E-07	8.6794E-03
520479.07	4258898.07	50024.81409	0.29389	0.14726	0.28074	0.15488	8.68E-03	6.90E-07	3.02E-07	6.59E-07	3.05E-07	8.6785E-03
520403.4	4258213.33	50020.49217	0.20047	0.43788	0.20636	0.46796	8.68E-03	4.71E-07	8.98E-07	4.84E-07	9.21E-07	8.6786E-03
520167.69	4258023.15	50019.17754	2.80632	0.29947	2.52645	0.2891	8.68E-03	6.59E-06	6.14E-07	5.93E-06	5.69E-07	8.6893E-03
520451.41	4258227.26	49978.86458	0.18772	0.33537	0.19182	0.3581	8.67E-03	4.41E-07	6.88E-07	4.50E-07	7.05E-07	8.6709E-03
520266.26	4258242.9	49978.74312	0.25435	1.07993	0.26585	1.19131	8.67E-03	5.97E-07	2.21E-06	6.24E-07	2.35E-06	8.6744E-03
520315.27	4258223.05	49969.18471	0.23081	0.75318	0.23779	0.81824	8.67E-03	5.42E-07	1.54E-06	5.58E-07	1.61E-06	8.6712E-03
520099.36	4258402.38	49956.11732	0.44004	14.01788	0.46876	15.73276	8.66E-03	1.03E-06	2.87E-05	1.10E-06	3.10E-05	8.7265E-03
520095.14	4258973.22	49932.56186	13.38111	0.37983	11.83297	0.35309	8.66E-03	3.14E-05	7.79E-07	2.78E-05	6.95E-07	8.7212E-03
520488.17	4258884.29	49923.47747	0.28108	0.14693	0.26883	0.15449	8.66E-03	6.60E-07	3.01E-07	6.31E-07	3.04E-07	8.6609E-03
520266.73	4259042.98	49887.79774	1.03819	0.20173	0.97811	0.21279	8.65E-03	2.44E-06	4.14E-07	2.30E-06	4.19E-07	8.6584E-03
520395.36	4258992.77	49884.01248	0.45465	0.15313	0.43236	0.1625	8.65E-03	1.07E-06	3.14E-07	1.02E-06	3.20E-07	8.6549E-03
520554.12	4258709.33	49855.29915	0.19708	0.15927	0.18896	0.16642	8.65E-03	4.63E-07	3.27E-07	4.44E-07	3.28E-07	8.6487E-03
520158.77	4259019.47	49841.20528	3.18862	0.30963	2.84869	0.29611	8.64E-03	7.49E-06	6.35E-07	6.69E-06	5.83E-07	8.6601E-03
520354.46	4258213.18	49835.52557	0.21536	0.5856	0.22107	0.62994	8.64E-03	5.06E-07	1.20E-06	5.19E-07	1.24E-06	8.6472E-03
520246.93	4259043.02	49834.12762	1.21655	0.21646	1.14023	0.22582	8.64E-03	2.86E-06	4.44E-07	2.68E-06	4.45E-07	8.6499E-03
520256.83	4259043	49822.00083	1.12107	0.20875	1.05353	0.21911	8.64E-03	2.63E-06	4.28E-07	2.47E-06	4.31E-07	8.6474E-03
520345.9	4259022.85	49814.4603	0.6054	0.16324	0.57474	0.17474	8.64E-03	1.42E-06	3.35E-07	1.35E-06	3.44E-07	8.6435E-03
520004.25	4258796.8	49803.90937	1.74678	0.65376	2.09638	0.63103	8.64E-03	4.10E-06	1.34E-06	4.92E-06	1.24E-06	8.6499E-03
520365.69	4259012.82	49802.85003	0.51797	0.15836	0.5114	0.16895	8.64E-03	1.26E-06	3.25E-07	1.20E-06	3.33E-07	8.6412E-03
520246.66	4258252.84	49796.45581	0.26476	1.27394	0.27867	1.41373	8.64E-03	6.22E-07	2.61E-06	6.54E-07	2.78E-06	8.6436E-03
520237.03	4259043.03	49778.72409	1.32514	0.22463	1.23836	0.23262	8.63E-03	3.11E-06	4.61E-07	2.91E-06	4.58E-07	8.6408E-03
520446.73	4258941.48	49777.30603	0.34463	0.14864	0.32798	0.15634	8.63E-03	8.09E-07	3.05E-07	7.70E-07	3.08E-07	8.6358E-03
520285.87	4258232.96	49715.23902	0.24365	0.92823	0.25303	1.01746	8.62E-03	5.72E-07	1.90E-06	5.94E-07	2.00E-06	8.6280E-03
520276.63	4259042.97	49700.08087	0.96315	0.1949	0.90916	0.20646	8.62E-03	2.26E-06	4.00E-07	2.13E-06	4.06E-07	8.6255E-03
520460.31	4258231.06	49688.35545	0.18516	0.32037	0.18877	0.3418	8.62E-03	4.35E-07	6.57E-07	4.43E-07	6.73E-07	8.6204E-03
520413.19	4258213.36	49681.83144	0.19724	0.41455	0.203	0.44274	8.62E-03	4.63E-07	8.50E-07	4.77E-07	8.72E-07	8.6197E-03
520025.9	4258874.69	49671.07449	2.97054	0.478	3.73421	0.46695	8.62E-03	6.97E-06	9.80E-07	8.77E-06	9.19E-07	8.6329E-03
520168.16	4258312.6	49669.10503	0.32169	3.01447	0.33777	3.44665	8.61E-03	7.55E-07	6.18E-06	7.93E-07	6.78E-06	8.6294E-03
520420.69	4258972.28	49635.33393	0.39637	0.15032	0.37739	0.15858	8.61E-03	9.31E-07	3.08E-07	8.86E-07	3.12E-07	8.6115E-03
520497.49	4258870.43	49589.53069	0.26876	0.14647	0.25723	0.1539	8.60E-03	6.31E-07	3.00E-07	6.04E-07	3.03E-07	8.6029E-03
520149.85	4259015.79	49578.11913	3.66539	0.31928	3.24685	0.30267	8.60E-03	8.61E-06	6.55E-07	7.62E-06	5.96E-07	8.6166E-03
520158.34	4258322.56	49575.84239	0.33155	3.48488	0.34726	3.99903	8.60E-03	7.78E-07	7.15E-06	8.15E-07	7.87E-06	8.6153E-03
520227.13	4259043.05	49557.11074	1.44862	0.23309	1.34917	0.23934	8.60E-03	3.40E-06	4.78E-07	3.17E-06	4.71E-07	8.6030E-03
520000.14	4258762.77	49512.7052	1.51737	0.77591	1.82693	0.73932	8.59E-03	3.56E-06	1.59E-06	4.29E-06	1.46E-06	8.5987E-03
520550.12	4258742.83	49510.13172	0.20404	0.15508	0.19546	0.16156	8.59E-03	4.79E-07	3.18E-07	4.59E-07	3.18E-07	8.5889E-03
520487.38	4258252.66	49492.95819	0.17858	0.27941	0.18	0.29694	8.58E-03	4.19E-07	5.73E-07	4.23E-07	5.85E-07	8.5863E-03
520187.51	4259033.12	49480.79549	2.17737	0.27429	1.98822	0.2706	8.58E-03	5.11E-06	5.63E-07	4.67E-06	5.33E-07	8.5931E-03
520177.98	4258302.63	49446.00498	0.31167	2.64031	0.32825	3.00201	8.58E-03	7.32E-07	5.42E-06	7.71E-07	5.91E-06	8.5890E-03
519999.42	4258736.93	49444.58686	1.40886	0.89888	1.70178	0.8466	8.58E-03	3.31E-06	1.84E-06	4.00E-06	1.67E-06	8.5868E-03
520344.67	4258213.15	49384.24692	0.21796	0.62301	0.2238	0.67146	8.57E-03	5.12E-07	1.28E-06	5.25E-07	1.32E-06	8.5691E-03
520326.12	4259032.89	49377.9411	0.68499	0.16918	0.64958	0.18128	8.56E-03	1.61E-06	3.47E-07	1.53E-06	3.57E-07	8.5682E-03
520286.53	4259042.95	49323.81678	0.89539	0.18821	0.84601	0.20009	8.55E-03	2.10E-06	3.86E-07	1.99E-06	3.94E-07	8.5599E-03
520437.86	4258955.16	49313.96182	0.36195	0.14858	0.34439	0.15633	8.55E-03	8.50E-07	3.05E-07	8.09E-07	3.08E-07	8.5556E-03
520522.21	4258307.63	49293.71335	0.17249	0.23699	0.17205	0.24895	8.55E-03	4.05E-07	4.86E-07	4.04E-07	4.90E-07	8.5516E-03
520385.47	4259002.79	49285.24123	0.48054	0.1538	0.45705	0.16353	8.55E-03	1.13E-06	3.15E-07	1.07E-06	3.22E-07	8.5511E-03
520140.93	4259012.11	49256.28601	4.2789	0.32828	3.75292	0.30877	8.54E-03	1.00E-05	6.73E-07	8.81E-06	6.08E-07	8.5634E-03
520061.39	4258939.3	49247.53632	9.06867	0.40428	19.47478	0.38534	8.54E-03	2.13E-05	8.29E-07	4.57E-05	7.59E-07	8.6104E-03
520061.52	4258925.24	49241.67015	6.24871	0.41594	10.25635	0.40004	8.54E-03	1.47E-05	8.53E-07	2.41E-05	7.87E-07	8.5811E-03
520422.98	4258213.39	49210.04238	0.19393	0.39295	0.19948	0.41939	8.54E-03	4.55E-07	8.06E-07	4.68E-07	8.26E-07	8.5378E-03
520217.23	4259043.07	49203.63464	1.59085	0.24173	1.47568	0.24586	8.53E-03	3.73E-06	4.96E-07	3.46E-06	4.84E-07	8.5423E-03
520469.2	4258234.87	49177.75301	0.18242	0.30666	0.18557	0.3267	8.53E-03	4.28E-07	6.29E-07	4.36E-07	6.43E-07	8.5318E-03
520473.72	4258910.29	49173.11027	0.30212	0.14624	0.28823	0.1538	8.53E-03	7.09E-07	3.00E-07	6.77E-07	3.03E-07	8.5308E-03
520404.29	4258989.16	49167.46623	0.43367	0.15092	0.41233	0.1599	8.53E-03	1.02E-06	3.10E-07	9.68E-07	3.15E-07	8.5305E-03
520305.48	4258223.02	49150.71808	0.23316	0.80684	0.24084	0.87923	8.52E-03	5.47E-07	1.65E-06	5.65E-07	1.73E-06	8.5295E-03
520227.05	4258262.78	49084.97638	0.27436	1.52854	0.29036	1.70522	8.51E-03	6.44E-07	3.13E-06	6.82E-07	3.36E-06	8.5214E-03
520538.16	4258478.07	49075.74495	0.18586	0.19953	0.18235	0.21084	8.51E-03	4.36E-07	4.09E-07	4.28E-07	4.15E-07	8.5137E-03
520507.07	4258856.46	49051.0903	0.25678	0.14608	0.246	0.15327	8.51E-03	6.03E-07	3.00E-07	5.78E-07	3.02E-07	8.5095E-03
520086.07	4258969.48	49050.76739	14.12102	0.38064	18.36207	0.35556	8.51E-03	3.32E-05	7.81E-07	4.31E-05	7.00E-07	8.5854E-03
520502.79	4258269.27	49046.58877	0.17491	0.26023	0.17504	0.27525	8.51E-03	4.11E-07	5.34E-07	4.11E-07	5.42E-07	8.5088E-03
520029.77	4258589.27	49037.22162	0.17454	0.3659	0.54052	2.76174	8.51E-03	2.76E-06	6.90E-06	3.62E-06	5.44E-06	8.5240E-03
520187.8	4258292.66	49022.26699	0.30174	2.3358	0.31865	2.64153	8.50E-03	7.08E-07	4.79E-06	7.48E-07	5.20E-06	8.5141E-03
520138.7	4258342.5	49006.32667	0.35212	4.86375	0.36653	5.72042	8.50E-03	8.27E-07	9.98E-06	8.60E-07	1.13E-05	8.5228E-03
520132.02	4259008.43	48892.27455	0.09011	0.33638	4.4194	0.31434	8.48E-03	1.19E-05	6.90E-07	1.04E-05	6.19E-07	8.5038E-03
520296.43	4259042.93	48887.23938	0.83443	0.18199	0.78915	0.19404	8.48E-03	1.96E-06	3.73E-07	1.85E-06	3.82E-07	8.4838E-03
520041.4	4258911.07	48878.88804	4.51393	0.42801	6.30897	0.41506	8.48E-03	1.06E-05	8.78E-07	1.48E-05	8.17E-07	8.5049E-03
520334.88	4258213.12	48842.46983	0.22046	0.6637	0.22658	0.71696	8.47E-03	5.18E-07	1.36E-06	5.32E-07	1.41E-06	8.4753E-03
520511.98	4258283.22	48832.89653	0.17314	0.24963	0.17277	0.26301	8.47E-03	4.06E-07	5.12E-07	4.06E-07	5.18E-07	8.4717E-03
520542.05	4258410.67	48829.29932	0.17703	0.20518	0.17489	0.21635	8.47E-03	4.16E-07	4.21E-07	4.11E-07	4.26E-07	8.4709E-03
520019.89	4258618.41	48821.82738	1.21338	2.36728	1.55596	2.04395	8.47E-03	2.85E-06	4.86E-06	3.65E-06	4.02E-06	8.4833E-03
520464.41	4258924.15	48795.56843	0.31602	0.14634	0.30115	0.15388	8.46E-03	7.42E-07	3.00E-07	7.07E-07	3.03E-07	8.4654E-03
520007.12	4258664.6	48794.9619	1.24983	1.49798	1.54488	1.35767	8.46E-03	2.93E-06	3.07E-06	3.63E-06	2.67E-06	8.4756E-03
520355.8	4259022.84	48779.54041	0.5706	0.15898	0.54167	0.16998	8.46E-03	1.34E-06	3.26E-07	1.27E-06	3.35E-07	8.4639E-03
520541.61	4258435.38	48768.84093	0.17992	0.2026	0.17741	0.21358	8.46E-03	4.22E-07	4.16E-07	4.17E-07	4.20E-07	8.4604E-03
520553.65	4258734.39	48768.36828	0.20039	0.15503	0.19195	0.16164	8.46E-03	4.70E-07	3.18E-07	4.51E-07	3.18E-07	8.4602E-03
520207.32	4259043.08	48744.07634	1.75653	0.25049	1.6219	0.25214	8.45E-03	4.12E-06	5.14E-07	3.81E-06	4.96E-07	8.4634E-03
520177.6	4259033.13	48709.51663	2.45858	0.28306	2.23125	0.27598	8.45E-03	5.77E-06	5.81E-07	5.24E-06	5.43E-07	8.4606E-03
520432.76	4258213.42	48673.55608	0.19063	0.37283	0.19587	0.39779	8.44E-03	4.48E-07	7.65E-07	4.60E-07	7.83E-07	8.4447E-03
520000.62	4258788.06	48667.10484	1.61024	0.67614	1.92163	0.65062	8.44E-03	3.78E-06	1.39E-06	4.51E-06	1.28E-06	8.4520E-03
520109.21	4258382.41	48663.60889	0.40343	3.86327	0.42459	11.85859	8.44E-03	9.47E-07	2.02E-05	9.97E-07	2.33E-05	8.4860E-03
520013.67	4258849.66	48637.59529	2.23652	0.51788	2.71056	0.50576	8.44E-03	5.25E-06	1.06E-06	6.36E-06	9.96E-07	8.4496E-03
520027.27	4258885.25	48631.13569	3.08733	0.45838	3.90798	0.44787	8.43E-03	7.25E-06	9.40E-07	9.17E-06	8.82E-07	8.4531E-03
520539.44	4258365.07	48627.52332	0.17282	0.21389	0.17207	0.2247	8.43E-03	4.06E-07	4.37E-07	4.04E-07	4.42E-07	8.4359E-03
520008.1	4258830.19	48601.46538	1.96654	0.55895	2.35671	0.54413	8.43E-03	4.62E-06	1.15E-06	5.53E-06	1.07E-06	8.4421E-03
520557.69	4258700.8	48598.35108	0.1936	0.15932	0.18577	0.16639	8.43E-03	4.55E-07	3.27E-07	4.36E-07	3.28E-07	8.4307E-03
520429.13	4258968.78	48595.17174	0.37956	0.14814	0.36122	0.15607	8.43E-03	8.91E-07	3.04E-07	8.48E-07	3.07E-07	8.4310E-03
520076.08	4258232.93	48581.26838	0.24548	1.00212	0.25603	1.10198	8.43E-03	5.76E-07	2.06E-06	6.01E-07	2.17E-06	8.4316E-03
520336.02	4259032.87	48576.61227	0.64365	0.16444	0.61053	0.17619	8.43E-03	1.51E-06	3.37E-07	1.43E-06	3.47E-07	8.4290E-03
520256.48	4258242.87	48565.65748	0.25559	1.17375	0.26841	1.29839	8.42E-03	6.00E-07	2.41E-06	6.30E-07	2.56E-06	8.4297E-03
520478.09	4258238.67	48558.12968	0.17963	0.2937	0.18223	0.3125	8.42E-03	4.22E-07	6.02E-07	4.28E-07	6.15E-07	8.4243E-03
520375.59	4259012.8	48544.57112	0.50838	0.15446	0.48339	0.16455	8.42E-03	1.19E-06	3.17E-07	1.13E-06	3.24E-07	8.4228E-03
520540.93	4258375.72	48539.10895	0.17346	0.21015	0.1723	0.22189	8.42E-03	4.07E-07	4.31E-07	4.05E-07	4.37E-07	8.4206E-03
520197.62	4258282.69	48516.19038	0.29214	2.08264	0.30899	2.3465	8.41E-03	6.86E-07	4.27E-06	7.25E-07	4.62E-06	8.4252E-03
520538.17	4258354.51	48474.97245	0.17204	0.2154	0.17161	0.22716	8.41E-03	4.04E-07	4.42E-07	4.03E-07	4.47E-07	8.4095E-03
520306.33	4259042.92	48470.92527	0.78014	0.17631	0.73842	0.1884	8.41E-03	1.83E-06	3.62E-07	1.73E-06	3.71E-07	8.4114E-03
520039.65	4258560.14	48467.78435	1.07981	5.00718	1.37521	3.83459	8.41E-03	2.54E-06	1.03E-05	3.23E-06	7.55E-06	8.4301E-03
520496.36	4258256.51	48432.04771	0.17551	0.26842	0.17638	0.28466	8.40E-03	4.12E-07	5.51E-07	4.14E-07	5.60E-07	8.4023E-03
520412.82	4258985.54	48355.64303	0.41396	0.14896	0.39376	0.15754	8.39E-03	9.72E-07	3.06E-07	9.24E-07	3.10E-07	8.3896E-03
520455.3	4258937.93	48323.80362	0.33048	0.14626	0.31466	0.15377	8.39E-03	7.76E-07	3.00E-07	7.39E-07	3.03E-07	8.3837E-03
520123.1	4259004.75	48286.17482	6.14886	0.34272	5.27964	0.31889	8.38E-03	1.44E-05	7.03E-07	1.24E-05	6.28E-07	8.4032E-03
520487.45	4258894.6	48274.65997	0.28282	0.14496	0.27064	0.15233	8.37E-03	6.64E-07	2.97E-07	6.35E-07	3.00E-07	8.3749E-03
520516.95	4258842.36	48255.50498	0.24515	0.14552	0.23493	0.15242	8.37E-03	5.76E-07	2.98E-07	5.52E-07	3.00E-07	8.3714E-03
520325.09	4258213.08	48217.00653	0.22287	0.70815	0.22942	0.76702	8.36E-03	5.23E-07	1.45E-06	5.39E-07	1.51E-06	8.3670E-03
520295.69	4258222.99	48209.34018	0.23524	0.86639	0.24387	0.9469	8.36E-03	5.52E-07	1.78E-06	5.73E-07	1.86E-06	8.3665E-03
520095.76	4258983.47	48207.4656	13.14477	0.36665	11.61083	0.34096	8.36E-03	3.09E-05	7.52E-07	2.73E-05	6.71E-07	8.4209E-03
520532.42	4258809.04	48203.07305	0.2268	0.1474	0.2174	0.15385	8.36E-03	5.32E-07	3.02E-07	5.10E-07	3.03E-07	8.3623E-03
520521.4	4258297.26	48189.59233	0.17123	0.23901	0.17074	0.25108	8.36E-03	4.02E-07	4.90E-07	4.01E-07	4.94E-07	8.3601E-03
520537.07	4258344.03	48129.181	0.17114	0.218	0.17092	0.22959	8.35E-03	4.02E-07	4.47E-07	4.01E-07	4.52E-07	8.3495E-03
520383.85	4258203.27	48123.85701	0.20274	0.49326	0.2083	0.52768	8.35E-03	4.76E-07	1.01E-06	4.89E-07	1.04E-06	8.3499E-03
520197.42	4259043.1	48110.94338	1.95026	0.25912	1.79156	0.25798	8.34E-03	4.58E-06	5.31E-07	4.21E-06	5.08E-07	8.3544E-03
520030.99	4258896.78	48106.04437	3.39741	0.44111	4.38643	0.43048	8.34E-03	7.98E-06	9.05E-07	1.03E-05	8.47E-07	8.3638E-03
520236.87	4258252.81	48093.07945	0.26512	1.39599	0.2801	1.55277	8.34E-03	6.22E-07	2.86E-06	6.58E-07	3.06E-06	8.3487E-03
520128.88	4258352.47	48084.69957	0.36166	5.9459	0.37667	7.0405	8.34E-03	8.49E-07	1.22E-05	8.84E-07	1.39E-05	8.3679E-03
520393.64	4258203.3	48065.48918	0.19986	0.46604	0.20551	0.49793	8.34E-03	4.69E-07	9.56E-07	4.82E-07	9.80E-07	8.3396E-03
520451.37	4258217.22	48061.98886	0.18522	0.33746	0.18958	0.36004	8.34E-03	4.35E-07	6.92E-07	4.45E-07	7.09E-07	8.3384E-03
520539.41	4258792.35	48054.70003	0.21877	0.14863	0.20972	0.1549	8.33E-03	5.14E-07	3.05E-07	4.92E-07	3.05E-07	8.3365E-03
520442.55	4258213.45	48033.77982	0.1873	0.35409	0.19215	0.37771	8.33E-03	4.40E-07	7.26E-07	4.51E-07	7.44E-07	8.3336E-03
520015.45	4258860.38	48019.32612	2.34085	0.49556	2.84744	0.48459	8.33E-03	5.50E-06	1.02E-06	6.68E-06	9.54E-07	8.3429E-03
520496.62	4258880.8	48007.09571	0.27075	0.14436	0.25904	0.15169	8.33E-03	6.36E-07	2.96E-07	6.08E-07	2.99E-07	8.3285E-03
520541.44	4258460.8	47989.63247	0.18249	0.19959	0.17951	0.21061	8.32E-03	4.28E-07	4.09E-07	4.21E-07	4.15E-07	8.3253E-03
520374.06	4258203.24	47985.81695	0.20541	0.52281	0.21096	0.55988	8.32E-03	4.82E-07	1.07E-06	4.95E-07	1.10E-06	8.3261E-03
520004.51	4258821.54	47958.07566	1.81746	0.57709	2.16814	0.56058	8.32E-03	4.27E-06	1.18E-06	5.09E-06	1.10E-06	8.3298E-03
520316.23	4259042.9	47953.00638	0.73062	0.17102	0.69206	0.18301	8.32E-03	1.72E-06	3.51E-07	1.62E-06	3.60E-07	8.3213E-03
519998.44	4258710.45	47935.97572	1.27751	1.04715	1.53823	0.97458	8.31E-03	3.00E-06	2.15E-06	3.61E-06	1.92E-06	8.3250E-03
520486.98	4258242.48	47890.98654	0.17691	0.28068	0.17879	0.29851	8.31E-03	4.15E-07	5.76E-07	4.20E-07	5.88E-07	8.3085E-03
520542.9	4258784	47882.31686	0.21483	0.14931	0.20599	0.15547	8.30E-03	5.04E-07	3.06E-07	4.84E-07	3.06E-07	8.3066E-03
520557.18	4258725.96	47879.43494	0.19681	0.15476	0.18851	0.16151	8.30E-03	4.62E-07	3.17E-07	4.43E-07	3.18E-07	8.3060E-03
520460.18	4258221	47868.81736	0.1829	0.32224	0.1868	0.34364	8.30E-03	4.29E-07	6.61E-07	4.39E-07	6.76E-07	8.3048E-03
520403.43	4258203.33	47864.39259	0.19686	0.44082	0.20257	0.47045	8.30E-03	4.62E-07	9.04E-07	4.76E-07	9.26E-07	8.3046E-03
520364.28	4258203.21	47863.65092	0.20819	0.55436	0.21362	0.59498	8.30E-03	4.89E-07	1.14E-06	5.02E-07	1.17E-06	8.3050E-03
520446.37	4258951.64	47842.2585	0.34629	0.14614	0.32956	0.15367	8.30E-03	8.13E-07	3.00E-07	7.74E-07	3.02E-07	8.3000E-03
520207.44	4258272.72	47829.42337	0.28265	1.8711	0.29931	2.09894	8.30E-03	6.64E-07	3.84E-06	7.03E-07	4.13E-06	8.3051E-03
520000.68	4258691.74	47826.4751	1.24269	1.19268	1.50741	1.09953	8.30E-03	2.92E-06	2.45E-06	3.54E-06	2.16E-06	8.3064E-03
520167.7	4259033.15	47822.2248	2.80102	0.29107	2.52489	0.28061	8.29E-03	6.58E-06	5.97E-07	5.93E-06	5.52E-07	8.3082E-03
520052.54	4258935.65	47765.75931	6.4978	0.40043	10.91474	0.38494	8.28E-03	1.53E-05	8.21E-07	2.56E-05	7.58E-07	8.3272E-03
520395.37	4259002.77	47762.24981	0.45531	0.15005	0.43291	0.15932	8.28E-03	1.07E-06	3.08E-07	1.02E-06	3.14E-07	8.2869E-03
520158.85	4259029.5	47727.57021	3.1827	0.30072	2.84762	0.28726	8.28E-03	7.47E-06	6.17E-07	6.69E-06	5.65E-07	8.2935E-03
520246.94	4259053.02	47696.97813	1.2172	0.21206	1.14053	0.22077	8.27E-03	2.86E-06	4.35E-07	2.68E-06	4.35E-07	8.2792E-03
520345.92	4259032.85	47689.04333	0.60573	0.15996	0.5746	0.17129	8.27E-03	1.42E-06	3.28E-07	1.35E-06	3.37E-07	8.2749E-03
520266.75	4259052.98	47687.18866	1.03825	0.19766	0.97741	0.20817	8.27E-03	2.44E-06	4.05E-07	2.29E-06	4.10E-07	8.2767E-03
520114.18	4259001.06	47673.7991	7.64154	0.34781	6.5049	0.3229	8.27E-03	1.79E-05	7.13E-07	1.53E-05	6.36E-07	8.3034E-03
520256.85	4259053	47665.86643	1.12114	0.20452	1.05313	0.21428	8.27E-03	2.63E-06	4.19E-07	2.47E-06

520246.69	4258242.84	47033.02363	0.25622	1.28084	0.27021	1.42013	8.16E-03	6.02E-07	2.63E-06	6.34E-07	2.80E-06	8.1643E-03
519995.71	4258727.97	47019.30662	1.28073	0.92882	1.53493	0.87093	8.16E-03	3.01E-06	1.90E-06	3.60E-06	1.71E-06	8.1655E-03
520057.87	4258947.84	46991.21862	7.93632	0.38763	16.08399	0.37096	8.15E-03	1.86E-05	7.95E-07	3.78E-05	7.30E-07	8.2083E-03
520463.87	4258934.38	46985.18364	0.3177	0.14407	0.3027	0.15141	8.15E-03	7.46E-07	2.95E-07	7.11E-07	2.98E-07	8.1514E-03
520032.39	4258907.35	46985.10108	3.5356	0.424	4.60874	0.41365	8.15E-03	8.30E-06	8.70E-07	1.08E-05	8.14E-07	8.1702E-03
520545.94	425839S	46980.01792	0.17331	0.20406	0.17146	0.2152	8.15E-03	4.07E-07	4.19E-07	4.03E-07	4.24E-07	8.1501E-03
520515.67	4258852.89	46978.33134	0.2475	0.14356	0.23719	0.15045	8.15E-03	5.81E-07	2.94E-07	5.57E-07	2.96E-07	8.1499E-03
520495.87	4258246.29	46967.39185	0.17398	0.26982	0.17533	0.2864	8.15E-03	4.08E-07	5.53E-07	4.12E-07	5.64E-07	8.1482E-03
520007.12	4258655.32	46921.22565	1.18387	1.58573	1.46321	1.42981	8.14E-03	2.78E-06	3.25E-06	3.44E-06	2.81E-06	8.1506E-03
520477.81	4258228.54	46913.04199	0.17774	0.2954	0.18075	0.31431	8.14E-03	4.17E-07	6.06E-07	4.24E-07	6.19E-07	8.1389E-03
520132.29	4259018.53	46905.24451	5.05659	0.32557	4.39435	0.30425	8.14E-03	1.19E-05	6.68E-07	1.03E-05	5.99E-07	8.1590E-03
520560.71	4258717.52	46900.47111	0.19334	0.15466	0.18528	0.16148	8.13E-03	4.54E-07	3.17E-07	4.35E-07	3.18E-07	8.1362E-03
520553.39	4258758.96	46882.29875	0.2035	0.1505	0.19503	0.15654	8.13E-03	4.78E-07	3.09E-07	4.58E-07	3.08E-07	8.1331E-03
520296.45	4259052.93	46829.93844	0.83473	0.17856	0.78872	0.19016	8.12E-03	1.96E-06	3.66E-07	1.85E-06	3.74E-07	8.1270E-03
520119.06	4258362.44	46794.34148	0.37086	7.49483	0.38709	8.9918	8.12E-03	8.71E-07	1.54E-05	9.09E-07	1.77E-05	8.1511E-03
520432.8	4258203.42	46730.99499	0.18767	0.37518	0.19297	0.39978	8.11E-03	4.41E-07	7.69E-07	4.53E-07	7.87E-07	8.1077E-03
520355.82	4259032.84	46718.38461	0.57091	0.15577	0.54159	0.16664	8.10E-03	1.34E-06	3.19E-07	1.27E-06	3.28E-07	8.1064E-03
520305.51	4258213.02	46704.60593	0.22725	0.81075	0.23524	0.88338	8.10E-03	5.34E-07	1.66E-06	5.52E-07	1.74E-06	8.1052E-03
520207.34	4259053.08	46691.53866	1.75726	0.24489	1.62363	0.2459	8.10E-03	4.13E-06	5.02E-07	3.81E-06	4.84E-07	8.1074E-03
520177.62	4259043.13	46616.86627	2.45314	0.27555	2.22903	0.26823	8.09E-03	5.76E-06	5.65E-07	5.23E-06	5.28E-07	8.0976E-03
520336.04	4259042.87	46529.95037	0.64379	0.16116	0.61003	0.17268	8.07E-03	1.51E-06	3.31E-07	1.43E-06	3.40E-07	8.0740E-03
520454.87	4258948.11	46513.36926	0.33217	0.14391	0.31627	0.15124	8.07E-03	7.80E-07	2.95E-07	7.43E-07	2.98E-07	8.0696E-03
520334.91	4258203.12	46497.69188	0.21535	0.66708	0.22154	0.72034	8.06E-03	5.06E-07	1.37E-06	5.20E-07	1.42E-06	8.0686E-03
520306.35	4259052.92	46489.15909	0.78047	0.17307	0.73813	0.18473	8.06E-03	1.83E-06	3.55E-07	1.73E-06	3.64E-07	8.0676E-03
520375.61	4259022.8	46484.56089	0.50886	0.15129	0.48344	0.16127	8.06E-03	1.19E-06	3.10E-07	1.13E-06	3.17E-07	8.0655E-03
520495.83	4258891.13	46471.2192	0.27256	0.14241	0.2608	0.14961	8.06E-03	6.40E-07	2.92E-07	6.12E-07	2.95E-07	8.0621E-03
520430.28	4258978.31	46458.89721	0.37811	0.1451	0.36	0.15291	8.06E-03	8.88E-07	2.98E-07	8.45E-07	3.01E-07	8.0604E-03
520049.52	4258531.01	46437.26878	0.91467	7.68277	1.09101	5.4396	8.05E-03	2.15E-06	1.58E-05	2.56E-06	1.07E-05	8.0855E-03
520018.5	4258881.63	46432.9775	2.53585	0.45507	3.10831	0.44579	8.05E-03	5.95E-06	9.33E-07	7.30E-06	8.78E-07	8.0686E-03
520096.34	4258993.7	46419.55057	12.92071	0.35371	11.36419	0.32915	8.05E-03	3.03E-05	7.25E-07	2.67E-05	6.48E-07	8.1096E-03
520123.44	4259014.88	46416.66381	6.11391	0.3316	5.25431	0.3086	8.05E-03	1.44E-05	6.80E-07	1.23E-05	6.07E-07	8.0787E-03
520168.19	4258302.6	46400.22745	0.30687	3.02833	0.32086	3.45857	8.05E-03	7.20E-07	6.21E-06	7.53E-07	6.81E-06	8.0624E-03
52412.7	4258995.59	46353.44842	0.41495	0.14598	0.39464	0.15451	8.04E-03	9.74E-07	2.99E-07	9.26E-07	3.04E-07	8.0423E-03
520486.62	4258232.31	46330.01876	0.17514	0.28292	0.17753	0.30083	8.04E-03	4.11E-07	5.80E-07	4.17E-07	5.92E-07	8.0377E-03
520158.37	4258312.56	46301.40595	0.31576	3.49818	0.32913	4.01805	8.03E-03	7.41E-07	7.17E-06	7.73E-07	7.91E-06	8.0474E-03
520227.08	4258252.78	46296.22679	0.26475	1.53659	0.28024	1.71283	8.03E-03	6.22E-07	3.15E-06	6.58E-07	3.37E-06	8.0377E-03
520530.18	4258301.02	46259.81665	0.16808	0.23018	0.16759	0.24153	8.02E-03	3.95E-07	4.72E-07	3.93E-07	4.75E-07	8.0253E-03
520178.01	4258292.63	46258.54603	0.29789	2.6535	0.31258	3.01216	8.02E-03	6.99E-07	5.44E-06	7.34E-07	5.93E-06	8.0361E-03
519997.34	4258804.24	46248.95423	1.55594	0.61529	1.84158	0.59452	8.02E-03	3.65E-06	1.26E-06	4.32E-06	1.17E-06	8.0321E-03
520451.33	4258207.19	46246.10443	0.18268	0.33956	0.18724	0.36193	8.02E-03	4.29E-07	6.96E-07	4.40E-07	7.12E-07	8.0235E-03
520043.69	425839Z	46232.53328	4.86554	0.39648	6.98828	0.38408	8.02E-03	1.14E-05	8.13E-07	1.64E-05	7.56E-07	8.0482E-03
520197.44	4259053.1	46172.3601	1.95188	0.25321	1.7946	0.25149	8.01E-03	4.58E-06	5.19E-07	4.21E-06	4.95E-07	8.0182E-03
520505.07	4258877.3	46171.85931	0.26091	0.14205	0.24988	0.14912	8.01E-03	6.13E-07	2.91E-07	5.87E-07	2.94E-07	8.0101E-03
520442.58	4258203.45	46139.91286	0.18451	0.35632	0.18952	0.37956	8.00E-03	4.33E-07	7.31E-07	4.45E-07	7.47E-07	8.0051E-03
520460.07	4258210.94	46113.36375	0.18056	0.32425	0.18473	0.34552	8.00E-03	4.24E-07	6.65E-07	4.34E-07	6.80E-07	8.0004E-03
520525.64	4258838.76	46109.2233	0.23632	0.14307	0.22658	0.14966	8.00E-03	5.55E-07	2.93E-07	5.32E-07	2.95E-07	7.9991E-03
520446.03	4258961.78	46091.00252	0.34817	0.14374	0.3314	0.15113	7.99E-03	8.17E-07	2.95E-07	7.78E-07	2.97E-07	7.9965E-03
520276.12	4258222.93	46071.15663	0.23857	1.00696	0.24946	1.10697	7.99E-03	5.60E-07	2.07E-06	5.86E-07	2.18E-06	7.9962E-03
520099.39	4258392.38	46043.67426	0.41128	14.04458	0.43642	15.98746	7.99E-03	9.66E-07	2.88E-05	1.02E-06	3.15E-05	8.0483E-03
520520.02	4258276.65	46033.74578	0.16876	0.24204	0.16837	0.25476	7.98E-03	3.96E-07	4.96E-07	3.95E-07	5.01E-07	7.9861E-03
520544.84	4258469.73	46028.37022	0.18136	0.19584	0.17804	0.20671	7.98E-03	4.26E-07	4.18E-07	4.02E-07	4.07E-07	7.9853E-03
520383.88	4258193.27	46014.89522	0.19876	0.49617	0.20405	0.53031	7.98E-03	4.67E-07	1.02E-06	4.79E-07	1.04E-06	7.9841E-03
520021.89	4258893.02	46001.96692	2.74625	0.43757	3.40713	0.42861	7.98E-03	6.45E-06	8.97E-07	8.00E-06	8.44E-07	7.9950E-03
520187.83	4258282.66	45999.84514	0.28912	2.3468	0.30424	2.65257	7.98E-03	6.79E-07	4.81E-06	7.14E-07	5.22E-06	7.9899E-03
520256.51	4258232.87	45998.63801	0.24783	1.17948	0.26076	1.30449	7.98E-03	5.82E-07	2.42E-06	6.12E-07	2.57E-06	7.9844E-03
520393.67	425819J.3	45980.03973	0.19606	0.46893	0.20145	0.50042	7.98E-03	4.60E-07	9.62E-07	4.73E-07	9.85E-07	7.9779E-03
520148.55	4258322.53	45949.02218	0.32455	4.10004	0.33752	4.73413	7.97E-03	7.62E-07	8.41E-06	7.92E-07	9.32E-06	7.9889E-03
520316.25	4259052.9	45946.99358	0.7307	0.16783	0.69155	0.17946	7.97E-03	1.72E-06	3.44E-07	1.62E-06	3.53E-07	7.9733E-03
520325.12	4258203.08	45942.89557	0.21767	0.71144	0.22434	0.77072	7.97E-03	5.11E-07	1.46E-06	5.27E-07	1.52E-06	7.9726E-03
520504.77	4258250.09	45891.84475	0.17103	0.25937	0.17184	0.27479	7.96E-03	4.02E-07	5.32E-07	4.03E-07	5.41E-07	7.9616E-03
520564.24	4258709.09	45875.82464	0.19003	0.15471	0.18225	0.16152	7.96E-03	4.46E-07	3.17E-07	4.28E-07	3.18E-07	7.9585E-03
520374.09	4258193.24	45866.47611	0.20127	0.52572	0.20654	0.56264	7.96E-03	4.73E-07	1.08E-06	4.85E-07	1.11E-06	7.9585E-03
519993.37	4258770.57	45865.02237	1.36513	0.7228	1.61716	0.69015	7.96E-03	3.20E-06	1.48E-06	3.80E-06	1.36E-06	7.9649E-03
520114.59	4259011.23	45852.35496	7.57345	0.33622	6.4512	0.31228	7.95E-03	1.78E-05	6.90E-07	1.51E-05	6.15E-07	7.9871E-03
520481.69	425891T	45848.83848	0.29214	0.14193	0.27908	0.1491	7.95E-03	6.86E-07	2.91E-07	6.55E-07	2.94E-07	7.9542E-03
520403.46	4258193.33	45838.79544	0.19328	0.44359	0.19877	0.4728	7.95E-03	4.54E-07	9.10E-07	4.67E-07	9.31E-07	7.9533E-03
520468.81	4258214.68	45829.01081	0.17829	0.31005	0.18203	0.33023	7.95E-03	4.19E-07	6.36E-07	4.27E-07	6.50E-07	7.9510E-03
520514.31	4258264.19	45815.97619	0.16931	0.24849	0.1693	0.26231	7.95E-03	3.97E-07	5.10E-07	3.97E-07	5.16E-07	7.9484E-03
520295.72	4258212.99	45797.56087	0.2291	0.87051	0.23807	0.95125	7.94E-03	5.38E-07	1.79E-06	5.59E-07	1.87E-06	7.9481E-03
520033.66	4258917.87	45793.77192	3.66725	0.40789	4.82587	0.39779	7.94E-03	8.61E-06	8.37E-07	1.13E-05	7.83E-07	7.9644E-03
520395.39	4259012.77	45779.07468	0.45581	0.14707	0.43339	0.15625	7.94E-03	1.07E-06	3.02E-07	1.02E-06	3.08E-07	7.9429E-03
520167.72	4259043.15	45766.30067	2.78795	0.28291	2.51791	0.27243	7.94E-03	6.55E-06	5.80E-07	5.91E-06	5.36E-07	7.9515E-03
520560.37	4258742.27	45757.36632	0.1964	0.1507	0.18818	0.15691	7.94E-03	4.61E-07	3.09E-07	4.42E-07	3.09E-07	7.9379E-03
520491.16	4258903.07	45744.36247	0.27911	0.14155	0.26696	0.14869	7.93E-03	6.55E-07	2.90E-07	6.27E-07	2.93E-07	7.9360E-03
520548.62	4258427.92	45710.73578	0.17547	0.19859	0.17301	0.2091	7.93E-03	4.12E-07	4.07E-07	4.06E-07	4.12E-07	7.9300E-03
520364.31	4258193.21	45708.89872	0.20384	0.55731	0.20908	0.59786	7.93E-03	4.79E-07	1.14E-06	4.91E-07	1.18E-06	7.9313E-03
519992.8	4258745.07	45699.97222	1.27081	0.82979	1.51444	0.78351	7.93E-03	2.98E-06	1.70E-06	3.56E-06	1.54E-06	7.9362E-03
520345.94	4259042.85	45697.00917	0.60588	0.15677	0.57421	0.16792	7.93E-03	1.42E-06	3.22E-07	1.35E-06	3.31E-07	7.9294E-03
520549.18	4258403.52	45696.69264	0.17265	0.20086	0.17057	0.21161	7.93E-03	4.05E-07	4.12E-07	4.00E-07	4.17E-07	7.9275E-03
520158.62	4259039.39	45695.80986	3.18126	0.2923	2.85178	0.27891	7.93E-03	7.47E-06	5.99E-07	6.70E-06	5.49E-07	7.9410E-03
520154.54	4258863.37	45678.13895	0.24964	0.1416	0.23924	0.14848	7.92E-03	5.86E-07	2.90E-07	5.62E-07	2.92E-07	7.9244E-03
520365.72	4259032.82	45674.07409	0.53879	0.15194	0.5114	0.16232	7.92E-03	1.26E-06	3.12E-07	1.20E-06	3.20E-07	7.9251E-03
520019.85	4258608.71	45670.31437	1.1387	0.47692	1.41583	0.13126	7.92E-03	2.62E-06	5.08E-06	3.32E-06	4.20E-06	7.9365E-03
520472.44	4258930.83	45664.24811	0.30555	0.14188	0.29138	0.14907	7.92E-03	7.17E-07	2.91E-07	6.84E-07	2.93E-07	7.9222E-03
520413.25	4258193.36	45629.97083	0.19049	0.41995	0.19598	0.44729	7.91E-03	4.47E-07	8.61E-07	4.60E-07	8.80E-07	7.9170E-03
520149.51	4259035.63	45561.67673	3.68193	0.30123	3.27054	0.285	7.90E-03	8.64E-06	6.18E-07	7.68E-06	5.61E-07	7.9200E-03
520048.72	4258944.07	45560.65093	5.72072	0.38382	8.82508	0.37039	7.90E-03	1.34E-05	7.87E-07	2.07E-05	7.29E-07	7.9380E-03
520495.44	4258236.09	45540.7672	0.1724	0.27141	0.17422	0.28824	7.90E-03	4.05E-07	5.57E-07	4.09E-07	5.67E-07	7.9008E-03
520197.65	4258272.69	45539.25315	0.28033	2.09386	0.29581	2.35472	7.90E-03	6.58E-07	4.29E-06	6.94E-07	4.64E-06	7.9089E-03
520058.88	4258958.25	45528.20491	8.27544	0.37379	17.55504	0.35757	7.90E-03	1.94E-05	7.67E-07	4.12E-05	7.04E-07	7.9588E-03
520421.37	4258992.01	45522.12071	0.39654	0.1442	0.37745	0.15234	7.90E-03	9.31E-07	2.96E-07	8.86E-07	3.00E-07	7.8980E-03
520546.89	4258358.24	45478.4513	0.16852	0.20764	0.1678	0.21894	7.89E-03	3.96E-07	4.26E-07	3.94E-07	4.31E-07	7.8897E-03
520187.54	4259053.12	45448.93292	2.18082	0.26107	1.99417	0.25646	7.88E-03	5.12E-06	5.35E-07	4.68E-06	5.05E-07	7.8938E-03
520236.9	4258242.81	45440.3477	0.25628	1.40316	0.27098	1.55962	7.88E-03	6.02E-07	2.88E-06	6.36E-07	3.07E-06	7.8886E-03
520006.5	4258856.69	45411.40276	1.95821	0.49253	2.33648	0.48151	7.88E-03	4.60E-06	1.01E-06	5.49E-06	9.48E-07	7.8884E-03
520548.28	4258368.85	45400.27747	0.16917	0.20517	0.16807	0.21644	7.87E-03	3.97E-07	4.21E-07	3.95E-07	4.26E-07	7.8761E-03
520439.01	425897A.7	45392.93424	0.36184	0.14299	0.34451	0.15049	7.87E-03	8.49E-07	2.93E-07	8.09E-07	2.96E-07	7.8754E-03
520140.41	4259031.87	45381.68064	4.32278	0.30943	3.80084	0.2906	7.87E-03	1.01E-05	6.35E-07	8.92E-06	5.72E-07	7.8915E-03
520354.52	4258193.18	45368.34963	0.20619	0.59177	0.21116	0.63616	7.87E-03	4.84E-07	1.21E-06	4.97E-07	1.25E-06	7.8724E-03
520545.69	4258347.72	45361.24917	0.16776	0.21004	0.16732	0.22125	7.87E-03	3.94E-07	4.31E-07	3.93E-07	4.36E-07	7.8694E-03
520477.56	4258218.42	45354.10667	0.17583	0.29705	0.17916	0.31604	7.87E-03	4.13E-07	6.09E-07	4.21E-07	6.22E-07	7.8685E-03
520529.37	4258290.66	45335.04669	0.16691	0.232	0.16636	0.24348	7.86E-03	3.92E-07	4.76E-07	3.91E-07	4.79E-07	7.8649E-03
520423.04	4258193.39	45311.48642	0.18763	0.39797	0.19305	0.42365	7.86E-03	4.40E-07	8.16E-07	4.53E-07	8.34E-07	7.8616E-03
520326.15	4259052.89	45291.08203	0.68524	0.16272	0.64852	0.17422	7.86E-03	1.61E-06	3.34E-07	1.52E-06	3.43E-07	7.8593E-03
520000.87	4258836.88	45281.99286	1.73243	0.53087	2.04649	0.51718	7.85E-03	4.07E-06	1.09E-06	4.80E-06	1.02E-06	7.8649E-03
520463.38	4258944.59	45269.0306	0.31931	0.14182	0.30423	0.14897	7.85E-03	7.50E-07	2.91E-07	7.14E-07	2.93E-07	7.8538E-03
520315.33	4258203.05	45245.27783	0.21974	0.76033	0.22713	0.8261	7.85E-03	5.16E-07	1.56E-06	5.33E-07	1.63E-06	7.8518E-03
520385.51	4259022.79	45226.50174	0.48152	0.14764	0.45758	0.15716	7.84E-03	1.13E-06	3.03E-07	1.07E-06	3.09E-07	7.8471E-03
520105.74	4259007.57	45214.51213	9.63853	0.33933	8.21902	0.31528	7.84E-03	2.26E-05	6.96E-07	1.93E-05	6.21E-07	7.8855E-03
520029.73	4258579.58	45184.57512	1.06684	3.50678	1.37951	2.85376	7.84E-03	2.50E-06	7.19E-06	3.24E-06	5.62E-06	7.8556E-03
519993.75	425879S.6	45176.53091	1.44047	0.63512	1.69834	0.61177	7.84E-03	3.38E-06	1.30E-06	3.99E-06	1.20E-06	7.8455E-03
52404	4259009.21	45160.43639	0.43514	0.14507	0.4138	0.15391	7.83E-03	1.02E-06	2.98E-07	9.71E-07	3.03E-07	7.8355E-03
520023.37	4258903.63	45059.07353	2.85401	0.4206	3.56423	0.41203	7.82E-03	6.70E-06	8.63E-07	8.37E-06	8.11E-07	7.8320E-03
520563.87	4258733.92	45041.99074	0.19299	0.15063	0.18493	0.15697	7.81E-03	4.53E-07	3.09E-07	4.34E-07	3.09E-07	7.8138E-03
520207.47	4258262.72	45033.68652	0.27188	1.88042	0.28734	2.10766	7.81E-03	6.38E-07	3.86E-06	6.75E-07	4.15E-06	7.8202E-03
520544.65	4258337.25	45020.58419	0.16681	0.21269	0.16662	0.22365	7.81E-03	3.92E-07	4.36E-07	3.91E-07	4.40E-07	7.8103E-03
520109.24	4258372.41	45004.95271	0.37893	9.90479	0.3978	11.75688	7.81E-03	8.90E-07	2.03E-05	9.34E-07	2.31E-05	7.8512E-03
520131.3	4259028.12	44985.50449	5.15428	0.31622	4.48208	0.29531	7.80E-03	1.21E-05	6.49E-07	1.05E-05	5.81E-07	7.8264E-03
520524.28	4258849.33	44981.84535	0.23865	0.14123	0.22887	0.14782	7.80E-03	5.60E-07	2.90E-07	5.37E-07	2.91E-07	7.8036E-03
52042.9	4258807.93	44962.77372	0.21759	0.14362	0.20868	0.14973	7.80E-03	5.11E-07	2.95E-07	4.90E-07	2.95E-07	7.8002E-03
520432.83	4258193.42	44904.78968	0.18473	0.3747	0.19	0.40172	7.79E-03	4.34E-07	7.74E-07	4.46E-07	7.91E-07	7.7910E-03
520539.96	4258315.22	44883.51872	0.16597	0.2195	0.16564	0.23033	7.78E-03	3.90E-07	4.50E-07	3.89E-07	4.53E-07	7.7865E-03
520008.2	4258867.38	44879.44107	2.04235	0.47184	2.44132	0.46199	7.78E-03	4.79E-06	9.68E-07	5.73E-06	9.09E-07	7.7965E-03
520266.33	425822J.9	44875.75463	0.23967	1.09058	0.2517	1.20223	7.78E-03	5.63E-07	2.24E-06	5.91E-07	2.37E-06	7.7893E-03
520344.73	4258193.15	44861.69872	0.20831	0.62937	0.21413	0.67781	7.78E-03	4.89E-07	1.29E-06	5.03E-07	1.33E-06	7.7847E-03
520007.12	4258646.05	44860.43692	1.11586	1.67301	1.37777	1.50099	7.78E-03	2.62E-06	3.43E-06	3.23E-06	2.95E-06	7.7931E-03
520454.48	4258958.28	44854.61793	0.33401	0.14163	0.31808	0.14881	7.78E-03	7.84E-07	2.90E-07	7.47E-07	2.93E-07	7.7819E-03
520486.3	4258222.16	44823.73124	0.17335	0.2846	0.17616	0.3026	7.77E-03	4.07E-07	5.84E-07	4.14E-07	5.96E-07	7.7765E-03
520285.94	4258212.96	44789.15551	0.23062	0.93715	0.24072	1.02678	7.77E-03	5.41E-07	1.92E-06	5.65E-07	2.02E-06	7.7735E-03
520355.84	4259042.84	44786.3403	0.57106	0.15272	0.54142	0.16344	7.77E-03	1.34E-06	3.13E-07	1.27E-06	3.22E-07	7.7712E-03
520567.36	4258887.66	44753.37941	0.26275	0.14006	0.25159	0.14704	7.76E-03	6.17E-07	2.87E-07	5.91E-07	2.89E-07	7.7644E-03
520549.83	425879L.4	44733.7599	0.21007	0.1449	0.20152	0.15081	7.76E-03	4.93E-07	2.97E-07	4.73E-07	2.97E-07	7.7604E-03
520177.64	4259053.13	44725.51135	2.45632	0.26864	2.23365	0.26103	7.76E-03	5.77E-06	5.51E-07	5.24E-06	5.14E-07	7.7695E-03
520567.77	4258700.65	44719.77513	0.18676	0.15475	0.17924	0.16145	7.76E-03	4.38E-07	3.17E-07	4.21E-07	3.18E-07	7.7579E-03
519994.67	4258701.35	44712.17524	1.14729	1.0749	1.36884	0.99778	7.76E-03	2.69E-06	2.20E-06	3.21E-06	1.96E-06	7.7652E-03
520513.66	4258253.9	44677.15029	0.16806	0.24971	0.1684	0.26397	7.75E-03	3.95E-07	5.12E-07	3.95E-07	5.20E-07	7.7509E-03
520128.91	4258342.47	44675.79317	0.94212	5.96518	0.35503	7.06255	7.75E-03	8.03E-07	8.33E-07	1.22E-05	1.39E-05	7.7766E-03
520034.84	4258928.34	44637.37277	3.79666	0.39291	5.03889	0.38301	7.74E-03	8.91E-06	8.06E-07	1.18E-05	7.54E-07	7.7645E-03
519997.12	4258227.83	44617.50799	1.60372	0.54803	1.88516	0.53273	7.74E-03	3.77E-06	1.12E-06	4.43E-06	1.05E-06	7.7491E-03
520430.03	4258988.42	44615.53326	0.3793	0.14235	0.36121	0.15012	7.74E-03	8.90E-07	2.92E-07	8.48E-07	2.96E-07	7.7407E-03
520504.25	4258239.86	44596.12301	0.1696	0.26082	0.17088	0.27655	7.73E-03	3.98E-07	5.35E-07	4.01E-07	5.44E-07	7.7369E-03
520096.89	4259003.92	44591.30776	12.66601	0.34126	11.11196	0.31783	7.73E-03	2.97E-05	7.00E-07	2.61E-05	6.26E-07	7.7913E-03
520375.62	425903Z.8	44573.51379	0.50916	0.1483	0.48363	0.15818	7.73E-03	1.20E-06	3.04E-07	1.14E-06	3.11E-07	7.7340E-03
520122.19	4259024.36	44549.55333	0.29143	0.32188	5.40753	0.29948	7.73E-03	1.48E-05	6.60E-07	1.27E-05	5.90E-07	7.7556E-03
520246.72	4258232.84	44540.07371	0.24813	1.28698	0.26197	1.42652	7.73E-03	5.83E-07	2.64E-06	6.15E-07	2.81E-06	7.7319E-03
520336.05	4259052.87	44539.78821	0.64364	0.15801	0.60925	0.16928	7.73E-03	1.51E-06	3.24E-07	1.43E-06	3.33E-07	7.7288E-03
520451.29	4258197.17	44523.57769	0.18012	0.34165	0.18481	0.36376	7.72E-03	4.23E-07	7.01E-07	4.34E-07	7.16E-07	7.7247E-03
520459.97	4258200.88	44475.11007	0.17823	0.32601	0.18256	0.34716	7.71E-03	4.18E-07	6.69E-07	4.29

520345.95	4259052.85	43829.11067	0.60591	0.15375	0.57379	0.16471	7.60E-03	1.42E-06	3.15E-07	1.35E-06	3.24E-07	7.6054E-03
520523.06	4258859.84	43824.55305	0.2408	0.13931	0.23094	0.1459	7.60E-03	5.65E-07	2.86E-07	5.42E-07	2.87E-07	7.6028E-03
520365.74	4259042.82	43811.23539	0.53892	0.149	0.51142	0.15925	7.60E-03	1.27E-06	3.06E-07	1.20E-06	3.13E-07	7.6019E-03
520039.6	4258550.44	43811.13413	0.96424	5.12003	1.19247	3.93196	7.60E-03	2.26E-06	1.05E-05	2.80E-06	7.74E-06	7.6221E-03
519993.37	4258818.79	43805.35337	1.48408	0.56592	1.73957	0.54863	7.60E-03	3.48E-06	1.16E-06	4.08E-06	1.08E-06	7.6076E-03
520325.15	4258193.08	43769.52347	0.21253	0.71466	0.21945	0.77402	7.59E-03	4.99E-07	1.47E-06	5.15E-07	1.52E-06	7.5956E-03
520413.28	4258183.36	43764.81041	0.18714	0.42247	0.19241	0.44939	7.59E-03	4.39E-07	8.66E-07	4.52E-07	8.85E-07	7.5934E-03
520149.67	4259045.69	43760.08544	3.67367	0.2926	3.2681	0.27664	7.59E-03	8.62E-06	6.00E-07	7.67E-06	5.45E-07	7.6074E-03
520227.11	4258242.78	43729.61364	0.25556	1.54428	0.2704	1.7198	7.58E-03	6.00E-07	3.17E-06	6.35E-07	3.39E-06	7.5925E-03
520553.38	4258388.69	43717.67121	0.16885	0.19823	0.16697	0.20901	7.58E-03	3.96E-07	4.07E-07	3.92E-07	4.11E-07	7.5842E-03
520276.15	4258212.93	43713.40859	0.23183	1.01184	0.24305	1.11154	7.58E-03	5.44E-07	2.08E-06	5.71E-07	2.19E-06	7.5873E-03
520421.21	4259002.08	43701.05373	0.3975	0.14136	0.37836	0.14948	7.58E-03	9.33E-07	2.90E-07	8.88E-07	2.94E-07	7.5822E-03
520462.93	4258954.79	43648.58865	0.32087	0.19958	0.30576	0.14657	7.57E-03	7.53E-07	2.86E-07	7.18E-07	2.89E-07	7.5727E-03
520140.63	4259041.96	43639.77713	4.30205	0.30032	3.79211	0.28193	7.57E-03	1.01E-05	6.16E-07	8.90E-06	5.55E-07	7.5893E-03
520438.7	4258884.83	43633.34527	0.36311	0.1404	0.34583	0.14784	7.57E-03	8.52E-07	2.88E-07	8.12E-07	2.91E-07	7.5702E-03
520364.34	4258183.21	43617.12571	0.19948	0.56021	0.20468	0.60043	7.57E-03	4.68E-07	1.15E-06	4.81E-07	1.18E-06	7.5685E-03
520256.54	4258222.87	43583.90698	0.24027	1.18531	0.25327	1.30989	7.56E-03	5.64E-07	2.43E-06	5.95E-07	2.58E-06	7.5656E-03
520295.75	4258202.99	43559.71203	0.22317	0.8744	0.23249	0.95532	7.56E-03	5.24E-07	1.79E-06	5.46E-07	1.88E-06	7.5600E-03
519989.13	4258736.23	43544.73491	1.16242	0.85495	1.37544	0.80413	7.55E-03	2.73E-06	1.75E-06	3.23E-06	1.58E-06	7.5619E-03
520513.07	4258243.63	43517.16072	0.16675	0.25098	0.16752	0.26562	7.55E-03	3.91E-07	5.15E-07	3.93E-07	5.23E-07	7.5497E-03
520423.07	4258183.39	43504.38046	0.18447	0.40037	0.18974	0.42563	7.55E-03	4.33E-07	8.21E-07	4.45E-07	8.38E-07	7.5482E-03
520563.68	4258758.32	43490.76792	0.19584	0.14633	0.18772	0.15212	7.54E-03	4.60E-07	3.00E-07	4.41E-07	2.99E-07	7.5448E-03
520571.31	4258692.22	43481.18206	0.1836	0.15467	0.17627	0.16124	7.54E-03	4.31E-07	3.17E-07	4.14E-07	3.17E-07	7.5431E-03
520538.06	4258294.38	43469.89892	0.16384	0.22374	0.16333	0.23448	7.54E-03	3.85E-07	4.59E-07	3.83E-07	4.62E-07	7.5413E-03
520119.09	4258352.44	43452.12641	0.35001	7.52194	0.36431	8.97237	7.54E-03	8.22E-07	1.54E-05	8.55E-07	1.77E-05	7.5713E-03
520103.98	4259016.84	43449.68644	10.19813	0.32883	8.70507	0.30578	7.54E-03	2.39E-05	6.74E-07	2.04E-05	6.02E-07	7.5818E-03
520168.22	4258292.6	43443.60929	0.29304	3.04177	0.30519	3.46802	7.54E-03	6.88E-07	6.24E-06	7.16E-07	6.83E-06	7.5496E-03
520178.04	4258282.63	43409.91815	0.28509	2.66505	0.29794	3.02255	7.53E-03	6.69E-07	5.47E-06	6.99E-07	5.95E-06	7.5420E-03
520385.52	4259032.79	43389.79048	0.48183	0.14473	0.4578	0.15416	7.53E-03	1.13E-06	2.97E-07	1.07E-06	3.03E-07	7.5286E-03
520486.01	4258212.02	43365.98544	0.17151	0.2863	0.17468	0.30431	7.52E-03	4.03E-07	5.87E-07	4.10E-07	5.99E-07	7.5236E-03
520403.96	4259019.23	43344.44813	0.43569	0.14225	0.41439	0.151	7.52E-03	1.02E-06	2.92E-07	9.73E-07	2.97E-07	7.5205E-03
520522.55	4258257.7	43325.5833	0.16507	0.2406	0.16503	0.25375	7.51E-03	3.88E-07	4.93E-07	3.87E-07	5.00E-07	7.5164E-03
520158.4	4258302.56	43304.74833	0.30099	3.51223	0.31246	4.0294	7.51E-03	7.07E-07	7.20E-06	7.34E-07	7.93E-06	7.5276E-03
520503.79	4258229.65	43304.1313	0.16811	0.26235	0.16986	0.27829	7.51E-03	3.95E-07	5.38E-07	3.99E-07	5.48E-07	7.5128E-03
520551.62	4258461.66	43288.0779	0.17697	0.19239	0.17382	0.20277	7.51E-03	4.15E-07	3.95E-07	4.08E-07	3.99E-07	7.5099E-03
520354.55	4258183.18	43276.10992	0.20167	0.59467	0.20714	0.63881	7.51E-03	4.73E-07	1.22E-06	4.86E-07	1.26E-06	7.5095E-03
520131.6	4259038.23	43256.93824	5.11861	0.3065	4.46134	0.28625	7.50E-03	1.20E-05	6.29E-07	1.05E-05	5.63E-07	7.5264E-03
520187.86	4258272.66	43191.60023	0.2771	2.35838	0.29065	2.66042	7.49E-03	6.51E-07	4.84E-06	6.82E-07	5.24E-06	7.5028E-03
520432.86	4258183.42	43144.68326	0.18174	0.37977	0.18694	0.40356	7.48E-03	4.27E-07	7.79E-07	4.39E-07	7.94E-07	7.4857E-03
520014.36	4258899.91	43114.96265	2.35795	0.41779	2.8591	0.4102	7.48E-03	5.54E-06	8.57E-07	6.71E-06	8.07E-07	7.4920E-03
520512.6	4258884.19	43102.44892	0.25341	0.13784	0.24291	0.14459	7.48E-03	5.95E-07	2.83E-07	5.70E-07	2.85E-07	7.4777E-03
520315.36	4258193.05	43070.07669	0.21436	0.76376	0.2221	0.82946	7.47E-03	5.03E-07	1.57E-06	5.21E-07	1.63E-06	7.4745E-03
520532.88	4258845.77	43068.62452	0.23023	0.13902	0.22099	0.14531	7.47E-03	5.41E-07	2.85E-07	5.19E-07	2.86E-07	7.4717E-03
520025.98	4258924.69	43026.58045	3.05766	0.38975	3.86782	0.38172	7.46E-03	7.18E-06	7.99E-07	9.08E-06	7.51E-07	7.4806E-03
520236.93	4258232.81	43020.85899	0.24786	1.40969	0.26208	1.56622	7.46E-03	5.82E-07	2.89E-06	6.15E-07	3.08E-06	7.4689E-03
520456.47	4258967.47	42981.15873	0.3319	0.1388	0.31622	0.14579	7.45E-03	7.79E-07	2.85E-07	7.42E-07	2.87E-07	7.4570E-03
520355.85	4259052.84	42973.71176	0.57108	0.14983	0.54124	0.1604	7.45E-03	1.34E-06	3.07E-07	1.27E-06	3.16E-07	7.4568E-03
520148.58	4258312.53	42939.95114	0.30883	0.11485	0.29318	0.74919	7.45E-03	7.25E-07	8.44E-06	7.51E-07	9.35E-06	7.4670E-03
520555.67	4258420.56	42930.4835	0.17117	0.19441	0.16873	0.20451	7.45E-03	4.02E-07	3.99E-07	3.96E-07	4.03E-07	7.4477E-03
520050.82	4258964.92	42918.25962	6.17462	0.35739	9.85291	0.34453	7.44E-03	1.45E-05	7.33E-07	2.31E-05	6.78E-07	7.4830E-03
520451.62	4258187.29	42887.1976	0.17746	0.34303	0.18221	0.3648	7.44E-03	4.17E-07	7.04E-07	4.28E-07	7.18E-07	7.4409E-03
520040.75	4258950.77	42884.96843	4.4938	0.36681	6.24023	0.35632	7.44E-03	1.05E-05	7.52E-07	1.47E-05	7.01E-07	7.4649E-03
520460.6	4258191.14	42880.82189	0.17568	0.32669	0.18011	0.34756	7.44E-03	4.12E-07	6.70E-07	4.23E-07	6.84E-07	7.4397E-03
520197.68	4258262.69	42878.35119	0.26929	2.10351	0.28329	2.3634	7.44E-03	6.32E-07	4.31E-06	6.65E-07	4.65E-06	7.4473E-03
520429.81	4258998.52	42864.16567	0.38036	0.1396	0.36225	0.14735	7.43E-03	8.93E-07	2.86E-07	8.50E-07	2.90E-07	7.4360E-03
519989.62	4258809.75	42855.98699	1.37431	0.58419	1.6053	0.56469	7.43E-03	3.23E-06	1.20E-06	3.77E-06	1.11E-06	7.4425E-03
519997.12	4258673.87	42822.60632	1.06341	1.28263	1.28075	1.17508	7.43E-03	2.50E-06	2.63E-06	3.01E-06	2.31E-06	7.4378E-03
520489.59	4258923.74	42820.33751	0.28263	0.13765	0.2703	0.14447	7.43E-03	6.64E-07	2.82E-07	6.35E-07	2.84E-07	7.4289E-03
520094.88	4259013.08	42814.87941	13.46122	0.33011	12.04709	0.30797	7.43E-03	3.16E-05	6.77E-07	2.83E-05	6.06E-07	7.4872E-03
520344.76	4258183.15	42806.24584	0.20368	0.6322	0.20962	0.6806	7.42E-03	4.78E-07	1.30E-06	4.92E-07	1.34E-06	7.4282E-03
520122.56	4259034.5	42785.73089	6.20198	0.31142	5.35437	0.28993	7.42E-03	1.46E-05	6.39E-07	1.26E-05	5.71E-07	7.4493E-03
520494.68	4258215.74	42778.1914	0.1691	0.27465	0.17178	0.29171	7.42E-03	3.97E-07	5.63E-07	4.03E-07	5.74E-07	7.4216E-03
520375.64	4259042.8	42771.97732	0.50931	0.14539	0.48363	0.15517	7.42E-03	1.20E-06	2.98E-07	1.14E-06	3.05E-07	7.4215E-03
520480.39	4258937.55	42769.17986	0.29543	0.13779	0.28215	0.14462	7.42E-03	6.94E-07	2.83E-07	6.62E-07	2.85E-07	7.4200E-03
520537.26	4258284.03	42731.80778	0.16279	0.22529	0.16218	0.23625	7.41E-03	3.82E-07	4.62E-07	3.81E-07	4.65E-07	7.4133E-03
520532.26	4258271.87	42703.26947	0.16313	0.23068	0.16263	0.24235	7.41E-03	3.83E-07	4.73E-07	3.82E-07	4.77E-07	7.4084E-03
520060.67	4258978.98	42702.82462	8.9141	0.34835	17.06479	0.33305	7.41E-03	2.09E-05	7.14E-07	4.01E-05	6.56E-07	7.4696E-03
520099.42	4258382.38	42695.03816	0.38577	14.08928	0.40806	16.00012	7.41E-03	9.06E-07	2.89E-05	9.58E-07	3.15E-05	7.4675E-03
520009.93	4258628.15	42693.51905	1.04484	1.90931	1.29384	1.69202	7.40E-03	2.45E-06	3.92E-06	3.04E-06	3.33E-06	7.4177E-03
520412.51	4259015.69	42692.72657	0.41648	0.14028	0.39607	0.14871	7.40E-03	9.78E-07	2.88E-07	9.30E-07	2.93E-07	7.4073E-03
520498.98	4258909.84	42685.49962	0.2704	0.13723	0.25879	0.14404	7.40E-03	6.35E-07	2.81E-07	6.08E-07	2.84E-07	7.4054E-03
520469.58	4258194.98	42684.93567	0.17366	0.31191	0.17779	0.33175	7.40E-03	4.08E-07	6.40E-07	4.17E-07	6.53E-07	7.4056E-03
520442.65	4258183.45	42682.331	0.17893	0.36057	0.184	0.38304	7.40E-03	4.20E-07	7.40E-07	4.32E-07	7.54E-07	7.4054E-03
520556.86	4258397.81	42672.93957	0.16836	0.19564	0.16624	0.20599	7.40E-03	3.95E-07	4.01E-07	3.90E-07	4.05E-07	7.4030E-03
520554.31	4258351.4	42656.17471	0.16439	0.2027	0.16371	0.2135	7.40E-03	3.86E-07	4.16E-07	3.84E-07	4.20E-07	7.4001E-03
520007.12	4258636.77	42654.40538	1.04702	1.75721	1.28953	1.56951	7.40E-03	2.46E-06	3.60E-06	3.03E-06	3.09E-06	7.4104E-03
520521.97	4258870.3	42651.57735	0.24278	0.13739	0.23282	0.14396	7.40E-03	5.70E-07	2.82E-07	5.47E-07	2.83E-07	7.3994E-03
519986.58	4258778.3	42608.06108	1.23437	0.67572	1.44379	0.64625	7.39E-03	2.90E-06	1.39E-06	3.39E-06	1.27E-06	7.3991E-03
520447.36	4258981.24	42600.01479	0.34785	0.13846	0.33141	0.14561	7.39E-03	8.17E-07	2.84E-07	7.78E-07	2.87E-07	7.3909E-03
520285.97	4258202.96	42597.55318	0.22447	0.94128	0.23486	1.03107	7.39E-03	5.27E-07	1.93E-06	5.51E-07	2.03E-06	7.3934E-03
520548.83	4258319.02	42587.4077	0.16273	0.21149	0.16246	0.22188	7.39E-03	3.82E-07	4.34E-07	3.81E-07	4.37E-07	7.3882E-03
520555.61	4258361.97	42585.58433	0.16504	0.20039	0.16401	0.2112	7.39E-03	3.87E-07	4.11E-07	3.85E-07	4.16E-07	7.3879E-03
520030.43	4258936.52	42563.13077	3.41153	0.37685	4.41023	0.36838	7.38E-03	8.01E-06	7.73E-07	1.04E-05	7.25E-07	7.4022E-03
520266.36	4258212.9	42559.53769	0.23263	1.09594	0.24486	1.20692	7.38E-03	5.46E-07	2.25E-06	5.75E-07	2.38E-06	7.3875E-03
520471.38	4258951.29	42555.8058	0.30868	0.13763	0.29443	0.14446	7.38E-03	7.25E-07	2.82E-07	6.91E-07	2.84E-07	7.3831E-03
520553.17	4258340.9	42523.12538	0.16359	0.20512	0.16321	0.21576	7.38E-03	3.84E-07	4.21E-07	3.83E-07	4.25E-07	7.3771E-03
519999.34	4258863.73	42491.90552	1.73319	0.46913	2.03908	0.459	7.37E-03	4.07E-06	9.62E-07	4.79E-06	9.04E-07	7.3807E-03
520207.5	4258252.72	42483.30854	0.26168	1.88899	0.27586	2.11581	7.37E-03	6.14E-07	3.87E-06	6.48E-07	4.16E-06	7.3778E-03
520019.81	4258599.01	42460.31741	1.02424	2.57719	1.2939	2.2103	7.36E-03	2.40E-06	5.29E-06	3.04E-06	4.35E-06	7.3796E-03
520138.76	4258222.5	42417.4221	0.31668	4.90542	0.32754	5.71974	7.36E-03	7.43E-07	1.01E-05	7.69E-07	1.13E-05	7.3799E-03
520508.59	4258895.85	42409.62596	0.25861	0.13677	0.24776	0.14351	7.36E-03	6.07E-07	2.81E-07	5.82E-07	2.82E-07	7.3575E-03
520570.6	4258741.78	42391.0287	0.18923	0.14637	0.18133	0.15236	7.35E-03	4.44E-07	3.00E-07	4.26E-07	3.00E-07	7.3540E-03
519986.12	4258753.09	42361.63704	1.1516	0.76942	1.35706	0.72804	7.35E-03	2.70E-06	1.58E-06	3.19E-06	1.43E-06	7.3563E-03
520478.56	4258198.82	42353.21008	0.17149	0.29818	0.17526	0.31701	7.35E-03	4.03E-07	6.12E-07	4.11E-07	6.24E-07	7.3480E-03
520113.52	4259030.77	42344.27309	7.76523	0.31542	6.63683	0.29323	7.34E-03	1.82E-05	6.47E-07	1.56E-05	5.77E-07	7.3795E-03
520574.35	4258708.88	42337.91911	0.18333	0.1504	0.17593	0.15686	7.34E-03	4.30E-07	3.08E-07	4.13E-07	3.09E-07	7.3448E-03
520512.53	4258233.39	42336.45448	0.16538	0.25243	0.16663	0.26733	7.34E-03	3.88E-07	5.18E-07	3.91E-07	5.26E-07	7.3449E-03
520521.88	4258247.4	42314.15139	0.16389	0.2418	0.16421	0.25537	7.34E-03	3.85E-07	4.96E-07	3.86E-07	5.03E-07	7.3410E-03
519993.85	4258844.06	42314.04217	1.54587	0.50425	1.80564	0.49156	7.34E-03	3.63E-06	1.03E-06	4.24E-06	9.68E-07	7.3490E-03
520334.97	4258183.12	42312.66726	0.20569	0.67299	0.21219	0.72656	7.34E-03	4.83E-07	1.38E-06	4.98E-07	1.43E-06	7.3427E-03
520305.57	4258193.02	42297.16935	0.21599	0.818	0.22466	0.89083	7.34E-03	5.07E-07	1.68E-06	5.27E-07	1.75E-06	7.3407E-03
520015.81	4258910.5	42288.20087	2.44266	0.40196	2.9759	0.3948	7.33E-03	5.73E-06	6.99E-06	8.24E-07	7.77E-07	7.3490E-03
520246.75	4258222.84	42204.82442	0.2403	1.29311	0.2539	1.43219	7.32E-03	5.64E-07	2.65E-06	5.96E-07	2.82E-06	7.3269E-03
520547.73	4258308.53	42196.52638	0.16188	0.21354	0.16145	0.22385	7.32E-03	3.80E-07	4.38E-07	3.79E-07	4.41E-07	7.3204E-03
520393.73	4258173.3	42195.00555	0.18869	0.47401	0.19356	0.50494	7.32E-03	4.43E-07	9.72E-07	4.54E-07	9.94E-07	7.3214E-03
520085.77	4259009.33	42173.64889	15.97974	0.33019	18.86667	0.30964	7.31E-03	3.75E-05	6.77E-07	4.43E-05	6.10E-07	7.3979E-03
520403.52	4258173.33	42151.86957	0.18629	0.44855	0.19124	0.47713	7.31E-03	4.37E-07	9.20E-07	4.49E-07	9.39E-07	7.3138E-03
520395.42	4259032.77	42151.31641	0.45651	0.14134	0.43396	0.15033	7.31E-03	1.07E-06	2.90E-07	1.02E-06	2.96E-07	7.3136E-03
520383.95	4258173.27	42129.03275	0.19098	0.50137	0.19585	0.53497	7.31E-03	4.48E-07	1.03E-06	4.60E-07	1.05E-06	7.3101E-03
520546.67	4258822.87	42094.27877	0.21601	0.13909	0.20739	0.14501	7.30E-03	5.07E-07	2.85E-07	4.87E-07	2.85E-07	7.3026E-03
520550.31	4258814.19	42064.0913	0.21215	0.13965	0.20366	0.1455	7.30E-03	4.98E-07	2.86E-07	4.78E-07	2.86E-07	7.2974E-03
520503.36	4258219.45	42063.51431	0.1666	0.26375	0.16877	0.27987	7.30E-03	3.91E-07	5.41E-07	3.96E-07	5.51E-07	7.2976E-03
520365.75	4259052.82	42061.92073	0.53894	0.14615	0.51132	0.15628	7.30E-03	1.27E-06	3.00E-07	1.20E-06	3.08E-07	7.2985E-03
520413.31	4258173.36	42061.45411	0.18391	0.42472	0.18889	0.45142	7.30E-03	4.32E-07	8.71E-07	4.43E-07	8.89E-07	7.2980E-03
520531.58	4258856.31	42043.34571	0.23238	0.13716	0.22308	0.14347	7.29E-03	5.46E-07	2.81E-07	5.24E-07	2.82E-07	7.2939E-03
520000.96	4258874.39	42029.99576	1.80198	0.44992	2.12131	0.44095	7.29E-03	4.23E-06	9.23E-07	4.98E-06	8.68E-07	7.3009E-03
520421.05	4259012.15	41986.19263	0.39834	0.13862	0.3792	0.1467	7.28E-03	9.35E-07	2.84E-07	8.90E-07	2.89E-07	7.2847E-03
520553.94	4258805.51	41984.57825	0.20835	0.14018	0.19998	0.14594	7.28E-03	4.89E-07	2.87E-07	4.69E-07	2.87E-07	7.2836E-03
520217.32	4258242.75	41967.98386	0.25416	1.70725	0.26837	1.90579	7.28E-03	5.97E-07	3.50E-06	6.30E-07	3.75E-06	7.2876E-03
520438.41	4258994.96	41964.44888	0.36424	0.13782	0.34705	0.14522	7.28E-03	8.55E-07	2.83E-07	8.15E-07	2.86E-07	7.2808E-03
520374.16	4258173.24	41940.20992	0.19315	0.53091	0.19815	0.56747	7.27E-03	4.53E-07	1.09E-06	4.65E-07	1.12E-06	7.2775E-03
520487.53	4258202.66	41909.89434	0.16921	0.2853	0.17256	0.30316	7.27E-03	3.97E-07	5.85E-07	4.05E-07	5.97E-07	7.2711E-03
520531.44	4258261.51	41899.47847	0.16212	0.23191	0.16175	0.24404	7.27E-03	3.81E-07	4.76E-07	3.80E-07	4.80E-07	7.2690E-03
520423.1	4258173.39	41885.53884	0.18147	0.40244	0.18644	0.42754	7.26E-03	4.26E-07	8.25E-07	4.38E-07	8.42E-07	7.2674E-03
520104.49	4259027.04	41865.32827	10.02281	0.3181	8.56897	0.29597	7.26E-03	2.35E-05	6.52E-07	2.01E-05	5.83E-07	7.3062E-03
520557.58	4258796.83	41847.9946	0.20461	0.14069	0.19636	0.14637	7.26E-03	4.80E-07	2.89E-07	4.61E-07	2.88E-07	7.2599E-03
520109.27	4258362.41	41827.92221	0.35706	9.93389	0.37374	11.78621	7.25E-03	8.38E-07	2.04E-05	8.77E-07	2.32E-05	7.3002E-03
520465.2	4258963.85	41801.94968	0.31839	0.30357	0.14356	0.14356	7.25E-03	7.47E-07	2.81E-07	7.13E-07	2.83E-07	7.2524E-03
519985.87	4258800.71	41765.02319	1.2726	0.60285	1.48146	0.58082	7.24E-03	2.99E-06	1.24E-06	3.48E-06	1.14E-06	7.2528E-03
520003.68	4258885.5	41754.95011	1.90885	0.4322	2.25712	0.4242	7.24E-03	4.48E-06	8.86E-07	5.30E-06	8.35E-07	7.2537E-03
520325.18	4258183.08	41741.42386	0.20756	0.71765	0.21477	0.77708	7.24E-03	4.87E-07	1.47E-06	5.04E-07	1.53E-06	7.2439E-03
520059.4	4258501.87	41712.54558	0.75297	13.19356	0.85982	7.96512	7.23E-03	1.77E-06	2.71E-05	2.02E-06	1.57E-05	7.2814E-03
520574.06	4258733.51	41710.59665	0.18604	0.14633	0.17833	0.15243	7.23E-03	4.37E-07	3.00E-07	4.19E-07	3.00E-07	7.2360E-03
520364.37	4258173.21	41704.0436	0.19531	0.56271	0.20051	0.60286	7.23E-03	4.59E-07	1.15E-06	4.71E-07	1.19E-06	7.2360E-03
520041.83	4258961.21	41693.11792	4.65112	0.35423	6.51307	0.3439	7.23E-03	1.09E-05	7.26E-07	1.53E-05	6.77E-07	7.2591E-03
519990.14	4258835.12	41675.40822	1.43809	0.51958	1.67193	0.50544	7.23E-03	3.38E-06	1.07E-06	3.93E-06	9.95E-07	7.2378E-03
520385.54	4259042.79	41661.38367	0.48198	0.14192	0.4579	0.15125	7.23E-03	1.13E-06	2.91E-07	1.08E-06	2.98E-07	7.2288E-03
520546.76	4258298.1	41630.84835	0.16089	0.21565	0.16036	0.22589	7.22E-03	3.78E-07	4.42E-07	3.76E-07	4.45E-07	7.2223E-03
520051.75	4258975.3	41630.7529	6.39395	0.34525	10.37462	0.33269	7.22E-03	1.50E-05	7.08E-07	2.44E-05	6.55E-07	7.2614E-03
520403.92	4259029.25	41627.70588	0.43614	0.13949	0.41484	0.14816	7.22E-03	1.02E-06	2.86E-07	9.74E-07	2.92E-07	7.2227E-03
520561.21	4258788.15	41625.82791	0.20089	0.14107	0.19273	0.14668	7.22E-03	4.72E-07	2.89E-07	4.52E-07	2.89E-07	7.2213E-03
520554.95	4258470.43	41620.72111	0.17588	0.18906	0.1724	0.19929	7.22E-03	4.13E-07	3.88E-07	4.05E-07	3.92E-07	7.2205E-03
519988.27	4258710.04	41583.77319	1.05141	0.97989	1.24161	0.91295	7.21E-03	2.47E-06	2.01E-06	2.91E-06	1.80E-06	7.2217E-03
520276.18	4258202.93	41559.35072	0.22541	1.01631	0.23682	1.11599	7.21E-03	5.29E-07	2.08E-06	5.56E-07	2.20E-06	7.2136E-03
520432.89	4258173.42	41556.72296	0.17887	0.38178	0.18386	0.40534	7.21E-03	4.20E-07	7.83E-07	4.32E-07	7.98E-07	7.2103E-03
520456.03	4258977.66	41518.47371	0.33344	0.13653	0.31784	0.14341	7.20E-03	7.83E-07	2.80E-07	7.46E-07	2.82E-07	7.2033E-03
520520.98	4258880.72	41495.82151	0.24466	0.13566	0.23464	0.14217	7.20E-03	5.74E-07	2.78E-07	5.51E-07	2.80E-07	7.1989E-03
520558.91	4258429.07	41491.55093	0.17037	0.19119	0.16776	0.20106	7.20E-03	4.00E-07	3.92E

520049.48	4258521.31	40959.43353	0.81503	7.72475	0.95063	5.52178	7.10E-03	1.91E-06	1.58E-05	2.23E-06	1.09E-05	7.1351E-03
519986.43	4258826.18	40911.2484	1.33766	0.53542	1.54972	0.51958	7.10E-03	3.14E-06	1.10E-06	3.64E-06	1.02E-06	7.1048E-03
520344.79	4258173.15	40898.93969	0.19921	0.63476	0.20533	0.68323	7.09E-03	4.68E-07	1.30E-06	4.82E-07	1.34E-06	7.0973E-03
520517.31	4258892.25	40821.45872	0.24915	0.13452	0.23895	0.14103	7.08E-03	5.85E-07	2.76E-07	5.61E-07	2.78E-07	7.0820E-03
520178.07	4258272.63	40807.29882	0.27305	2.67629	0.28428	3.03088	7.08E-03	6.41E-07	5.49E-06	6.67E-07	5.97E-06	7.0906E-03
520168.25	4258282.6	40803.04554	0.28023	3.05343	0.29067	3.47826	7.08E-03	6.58E-07	6.26E-06	6.82E-07	6.85E-06	7.0916E-03
520236.96	4258222.81	40745.51455	0.23971	1.41635	0.2534	1.5719	7.07E-03	5.63E-07	2.90E-06	5.95E-07	3.09E-06	7.0743E-03
520086.42	4259019.59	40713.91338	15.69544	0.31936	18.13915	0.29961	7.06E-03	3.68E-05	6.55E-07	4.26E-05	5.90E-07	7.1423E-03
520187.89	4258262.66	40680.51168	0.26592	2.36821	0.27788	2.66899	7.06E-03	6.24E-07	4.86E-06	6.52E-07	5.25E-06	7.0672E-03
520572.12	4258762.1	40668.39176	0.19034	0.14216	0.18249	0.14769	7.05E-03	4.47E-07	2.92E-07	4.28E-07	2.91E-07	7.0552E-03
520158.43	4258292.56	40618.27312	0.28732	3.52511	0.29711	4.04013	7.05E-03	6.75E-07	7.23E-06	6.98E-07	7.95E-06	7.0616E-03
520505.49	4258210.35	40612.49689	0.1643	0.26225	0.16675	0.27815	7.04E-03	3.86E-07	5.38E-07	3.91E-07	5.48E-07	7.0459E-03
520487.21	4258192.51	40605.42822	0.16736	0.2869	0.17095	0.30475	7.04E-03	3.93E-07	5.88E-07	4.01E-07	6.00E-07	7.0448E-03
519982.12	4258791.66	40535.44661	1.17812	0.62175	1.36659	0.59687	7.03E-03	2.77E-06	1.28E-06	3.21E-06	1.17E-06	7.0391E-03
520286	4258192.96	40528.44019	0.21845	0.94539	0.22912	1.03491	7.03E-03	5.13E-07	1.94E-06	5.38E-07	2.04E-06	7.0345E-03
520042.84	4258971.62	40515.78958	4.8046	0.34232	6.78364	0.33217	7.03E-03	1.13E-05	7.02E-07	1.59E-05	6.54E-07	7.0558E-03
520119.12	4258342.44	40515.68692	0.33119	7.54537	0.34375	8.98191	7.03E-03	7.78E-07	1.55E-05	8.07E-07	1.77E-05	7.0620E-03
520395.44	4259042.77	40497.34957	0.45666	0.13861	0.43412	0.14751	7.02E-03	1.07E-06	2.84E-07	1.02E-06	2.90E-07	7.0267E-03
520006.88	4258906.81	40488.3594	2.05375	0.39969	2.44511	0.39302	7.02E-03	4.82E-06	8.20E-07	5.74E-06	7.74E-07	7.0347E-03
520393.77	4258163.3	40471.11143	0.18512	0.47618	0.18978	0.50694	7.02E-03	4.35E-07	9.77E-07	4.46E-07	9.98E-07	7.0224E-03
520197.71	4258252.69	40470.22217	0.25894	2.11199	0.27143	2.37202	7.02E-03	6.08E-07	4.33E-06	6.37E-07	4.67E-06	7.0296E-03
520403.55	4258163.33	40469.4465	0.1829	0.45072	0.18758	0.47908	7.02E-03	4.29E-07	9.24E-07	4.40E-07	9.43E-07	7.0220E-03
519982.5	4258744.34	40457.30199	1.06046	0.79075	1.24024	0.74582	7.02E-03	2.49E-06	1.62E-06	2.91E-06	1.47E-06	7.0256E-03
520335	4258173.12	40453.8013	0.20114	0.67553	0.20784	0.72945	7.02E-03	4.72E-07	1.39E-06	4.88E-07	1.44E-06	7.0203E-03
520413.34	4258163.36	40423.03986	0.18068	0.42683	0.18538	0.45328	7.01E-03	4.24E-07	8.75E-07	4.35E-07	8.92E-07	7.0138E-03
520266.39	4258202.9	40416.59914	0.22586	1.10102	0.23816	1.21128	7.01E-03	5.30E-07	2.26E-06	5.59E-07	2.38E-06	7.0158E-03
520464.69	4258974.07	40409.25496	0.31994	0.13464	0.30519	0.1413	7.01E-03	7.51E-07	2.76E-07	7.16E-07	2.78E-07	7.0108E-03
520032.84	4258957.5	40396.98045	3.64843	0.35112	4.77189	0.34291	7.01E-03	8.57E-06	7.20E-07	1.12E-05	6.75E-07	7.0278E-03
520540.33	4258265.31	40391.1348	0.15918	0.22367	0.1586	0.23486	7.01E-03	3.74E-07	4.59E-07	3.72E-07	4.62E-07	7.0073E-03
520438.15	4259005.07	40382.73363	0.36524	0.13524	0.34813	0.14263	7.00E-03	8.57E-07	2.77E-07	8.17E-07	2.81E-07	7.0064E-03
520383.98	4258163.27	40380.2316	0.18726	0.50357	0.19199	0.53707	7.00E-03	4.40E-07	1.03E-06	4.51E-07	1.06E-06	7.0067E-03
520052.62	4258985.65	40373.96967	0.60144	0.33383	0.91077	0.32156	7.00E-03	1.55E-05	6.85E-07	2.56E-05	6.33E-07	7.0451E-03
520420.91	4259022.22	40366.31466	0.39905	0.13594	0.37991	0.14397	7.00E-03	9.37E-07	2.79E-07	8.92E-07	2.83E-07	7.0037E-03
520540.11	4258852.78	40320.53528	0.22438	0.13501	0.21557	0.14105	6.99E-03	5.27E-07	2.77E-07	5.06E-07	2.78E-07	6.9950E-03
520423.13	4258163.39	40302.79239	0.17842	0.40444	0.18312	0.42931	6.99E-03	4.19E-07	8.29E-07	4.30E-07	8.45E-07	6.9929E-03
520305.61	4258183.02	40300.06263	0.2106	0.82135	0.21962	0.89401	6.99E-03	4.94E-07	1.68E-06	5.16E-07	1.76E-06	6.9943E-03
520148.61	4258302.53	40233.25463	0.29429	4.12913	0.30374	4.76045	6.98E-03	6.91E-07	8.47E-06	7.13E-07	9.37E-06	6.9975E-03
520520.72	4258226.88	40228.473	0.16136	0.24435	0.16258	0.25847	6.98E-03	3.79E-07	5.01E-07	3.82E-07	5.09E-07	6.9792E-03
520575.75	4258753.42	40182.79666	0.18696	0.1422	0.1792	0.14782	6.97E-03	4.39E-07	2.92E-07	4.21E-07	2.95E-07	6.9710E-03
520374.19	4258163.24	40172.16088	0.18928	0.53312	0.19422	0.56965	6.97E-03	4.44E-07	1.09E-06	4.56E-07	1.12E-06	6.9708E-03
520530.02	4258240.87	40138.93303	0.15992	0.23418	0.1602	0.24713	6.96E-03	3.75E-07	4.80E-07	3.76E-07	4.86E-07	6.9636E-03
520581.34	4258692.19	40137.92405	0.17736	0.15018	0.17028	0.15641	6.96E-03	4.16E-07	3.08E-07	4.00E-07	3.08E-07	6.9632E-03
520207.53	4258242.72	40137.49448	0.252	1.89707	0.2649	2.12313	6.96E-03	5.92E-07	3.89E-06	6.22E-07	4.18E-06	6.9709E-03
520496.11	4258196.32	40128.75426	0.16516	0.27467	0.16832	0.29165	6.96E-03	3.88E-07	5.63E-07	3.95E-07	5.74E-07	6.9621E-03
520558.29	4258479.19	40114.26465	0.17474	0.18577	0.17088	0.19583	6.96E-03	4.10E-07	3.81E-07	4.01E-07	3.85E-07	6.9592E-03
520556.51	4258312.29	40107.92628	0.1588	0.20577	0.1584	0.21571	6.96E-03	3.73E-07	4.22E-07	3.72E-07	4.25E-07	6.9581E-03
520580.99	4258716.98	40096.97801	0.17992	0.14623	0.17265	0.15242	6.95E-03	4.22E-07	3.00E-07	4.05E-07	3.00E-07	6.9561E-03
520561.7	4258344.55	40095.31178	0.16042	0.19789	0.15977	0.20821	6.95E-03	3.77E-07	4.06E-07	3.75E-07	4.10E-07	6.9559E-03
520488.27	4258944.29	40070.2866	0.28567	0.13377	0.27326	0.14026	6.95E-03	6.71E-07	2.74E-07	6.42E-07	2.76E-07	6.9519E-03
520009.89	4258618.45	40065.43	0.96947	1.99029	1.19408	1.75881	6.95E-03	2.28E-06	4.08E-06	2.80E-06	3.46E-06	6.9618E-03
520497.41	4258930.5	40048.47901	0.27368	0.13345	0.26187	0.13997	6.95E-03	6.43E-07	2.74E-07	6.15E-07	2.76E-07	6.9480E-03
520562.93	4258355.09	40045.88354	0.16108	0.19566	0.16009	0.20604	6.95E-03	3.78E-07	4.01E-07	3.76E-07	4.06E-07	6.9473E-03
520385.56	4259052.79	40034.11417	0.482	0.13919	0.4579	0.14843	6.94E-03	1.13E-06	2.85E-07	1.08E-06	2.92E-07	6.9465E-03
520432.92	4258163.42	40030.06677	0.176	0.38369	0.18074	0.40699	6.94E-03	4.13E-07	7.87E-07	4.24E-07	8.01E-07	6.9455E-03
520562.15	4258437.59	40027.61481	0.16951	0.18802	0.16671	0.19771	6.94E-03	3.98E-07	3.86E-07	3.91E-07	3.89E-07	6.9442E-03
519982.73	4258817.24	40019.02391	1.24365	0.55181	1.43772	0.5339	6.94E-03	2.92E-06	1.13E-06	3.38E-06	1.05E-06	6.9496E-03
520455.62	4258987.83	40017.41284	0.33474	0.13423	0.31925	0.14104	6.94E-03	7.86E-07	2.75E-07	7.49E-07	2.78E-07	6.9429E-03
520022.62	4258943.29	40010.20203	2.86096	0.36076	3.57112	0.35402	6.94E-03	6.72E-06	7.40E-07	8.38E-06	6.97E-07	6.9561E-03
520094.69	4259031.31	40005.31464	13.47248	0.31077	12.13057	0.29039	6.94E-03	3.16E-05	6.37E-07	2.85E-05	5.72E-07	7.0001E-03
520246.78	4258212.84	40005.07615	0.23268	1.29938	0.24599	1.43706	6.94E-03	5.46E-07	2.66E-06	5.78E-07	2.83E-06	6.9453E-03
520563.96	4258390.6	39995.01208	0.16419	0.19055	0.16206	0.20063	6.94E-03	3.85E-07	3.91E-07	3.80E-07	3.95E-07	6.9385E-03
520404.18	4259039.15	39992.08767	0.43578	0.13676	0.41455	0.14533	6.94E-03	1.02E-06	2.80E-07	9.73E-07	2.86E-07	6.9390E-03
520563.81	4258416.06	39989.08215	0.16681	0.18914	0.16429	0.1988	6.94E-03	3.92E-07	3.88E-07	3.86E-07	3.91E-07	6.9375E-03
520506.73	4258916.64	39926.20279	0.26213	0.13313	0.25107	0.13963	6.93E-03	6.15E-07	2.73E-07	5.89E-07	2.75E-07	6.9268E-03
520364.4	4258163.21	39918.15973	0.19128	0.56495	0.19653	0.60511	6.92E-03	4.49E-07	1.16E-06	4.61E-07	1.19E-06	6.9269E-03
520325.21	4258173.08	39892.23918	0.20284	0.72029	0.21029	0.78008	6.92E-03	4.76E-07	1.48E-06	4.94E-07	1.54E-06	6.9231E-03
519992.19	4258870.77	39842.27542	1.54782	0.44745	1.7981	0.43809	6.91E-03	3.63E-06	9.18E-07	4.22E-06	8.62E-07	6.9201E-03
520099.45	4258372.38	39788.57443	0.36281	14.14659	0.3829	15.72817	6.90E-03	8.52E-07	2.90E-05	8.99E-07	3.10E-05	6.9629E-03
520460.39	4258171.02	39781.43764	0.17063	0.33126	0.17534	0.35121	6.90E-03	4.01E-07	6.79E-07	4.12E-07	6.91E-07	6.9021E-03
520469.23	4258174.8	39771.6649	0.1691	0.31603	0.17353	0.33532	6.90E-03	3.97E-07	6.48E-07	4.07E-07	6.60E-07	6.9003E-03
520514.47	4258214.19	39769.54111	0.1617	0.2519	0.16369	0.26681	6.90E-03	3.80E-07	5.17E-07	3.84E-07	5.25E-07	6.8997E-03
520555.45	4258301.82	39757.91779	0.15795	0.2078	0.15743	0.21764	6.90E-03	3.71E-07	4.26E-07	3.70E-07	4.28E-07	6.8974E-03
520008.28	4258917.38	39746.54742	2.12129	0.38488	2.53432	0.3787	6.89E-03	4.98E-06	7.89E-07	5.95E-06	7.45E-07	6.9063E-03
520451.55	4258167.23	39727.10776	0.17207	0.34737	0.1769	0.36814	6.89E-03	4.04E-07	7.12E-07	4.15E-07	7.25E-07	6.8927E-03
520217.35	4258232.75	39701.44388	0.24514	1.71473	0.25829	1.91231	6.89E-03	5.76E-07	3.52E-06	6.06E-07	3.76E-06	6.8945E-03
520539.51	4258254.95	39686.08037	0.15821	0.22475	0.15779	0.23638	6.88E-03	3.71E-07	4.61E-07	3.70E-07	4.65E-07	6.8850E-03
520516.26	4258902.69	39673.68854	0.25098	0.13273	0.24065	0.13916	6.88E-03	5.89E-07	2.72E-07	5.65E-07	2.74E-07	6.8829E-03
520138.79	4258312.5	39672.38932	0.30117	4.92349	0.31061	5.72023	6.88E-03	7.07E-07	1.01E-05	7.29E-07	1.13E-05	6.9038E-03
520058.46	4258998.05	39661.11851	8.23962	0.32434	16.70518	0.31104	6.88E-03	1.93E-05	6.65E-07	3.92E-05	6.12E-07	6.9389E-03
520429.41	4259018.7	39650.47072	0.3821	0.13428	0.36403	0.14199	6.88E-03	8.97E-07	2.75E-07	8.55E-07	2.80E-07	6.8795E-03
520442.71	4258163.45	39637.77768	0.17346	0.36438	0.17824	0.38623	6.87E-03	4.07E-07	7.47E-07	4.18E-07	7.60E-07	6.8773E-03
519994.57	4258881.74	39632.31051	1.62697	0.42991	1.89366	0.42166	6.87E-03	3.82E-06	8.82E-07	4.45E-06	8.30E-07	6.8840E-03
519986.82	4258851.23	39619.41226	1.38887	0.47977	1.60753	0.46792	6.87E-03	3.26E-06	9.84E-07	3.77E-06	9.21E-07	6.8807E-03
520478.07	4258178.58	39619.0082	0.16736	0.30181	0.17149	0.32036	6.87E-03	3.93E-07	6.19E-07	4.03E-07	6.31E-07	6.8738E-03
520579.39	4258744.73	39558.10242	0.18365	0.14214	0.17601	0.14789	6.86E-03	4.31E-07	2.92E-07	4.13E-07	2.91E-07	6.8626E-03
520354.61	4258163.18	39546.88841	0.19312	0.59954	0.19885	0.6436	6.86E-03	4.53E-07	1.23E-06	4.67E-07	1.27E-06	6.8626E-03
519997.12	4258655.32	39527.39305	0.96057	1.41316	1.15572	1.28576	6.86E-03	2.26E-06	2.90E-06	2.71E-06	2.53E-06	6.8662E-03
520276.21	4258192.93	39522.89179	0.21913	1.0208	0.2307	1.11991	6.86E-03	5.14E-07	2.09E-06	5.42E-07	2.20E-06	6.8604E-03
520446.7	4259001.53	39503.00478	0.35011	0.13359	0.33392	0.14064	6.85E-03	8.22E-07	2.74E-07	7.84E-07	2.77E-07	6.8538E-03
520295.82	4258182.99	39484.00621	0.21177	0.88184	0.22176	0.9623	6.85E-03	4.97E-07	1.81E-06	5.21E-07	1.89E-06	6.8530E-03
520505.02	4258200.13	39474.69351	0.16277	0.26372	0.16556	0.27971	6.85E-03	3.82E-07	5.41E-07	3.89E-07	5.51E-07	6.8486E-03
520553.69	4258830.05	39463.8569	0.21096	0.13509	0.20269	0.14078	6.84E-03	4.95E-07	2.77E-07	4.76E-07	2.77E-07	6.8464E-03
520557.29	4258821.46	39442.21759	0.20729	0.13566	0.19917	0.14128	6.84E-03	4.87E-07	2.78E-07	4.68E-07	2.78E-07	6.8426E-03
519979.4	4258761	39407.78779	1.05021	0.71611	1.22391	0.67903	6.84E-03	2.47E-06	1.47E-06	2.87E-06	1.34E-06	6.8432E-03
520412.92	4259035.53	39406.5527	0.41625	0.13481	0.39595	0.14308	6.83E-03	9.77E-07	2.76E-07	9.30E-07	2.82E-07	6.8374E-03
520012.13	4258928.96	39404.40082	1.29563	0.27155	2.77029	0.36559	6.83E-03	5.39E-06	7.62E-07	6.50E-06	7.20E-07	6.8479E-03
520039.56	4258540.74	39386.33469	0.86413	5.20603	1.04037	0.01639	6.83E-03	2.03E-06	1.07E-05	2.44E-06	7.91E-06	6.8544E-03
520560.88	4258812.87	39379.08865	0.2037	0.13618	0.19569	0.14172	6.83E-03	4.78E-07	2.79E-07	4.59E-07	2.79E-07	6.8316E-03
520538.86	4258863.31	39373.81139	0.22637	0.13317	0.21747	0.13923	6.83E-03	5.31E-07	2.73E-07	5.11E-07	2.74E-07	6.8308E-03
520550.22	4258279.56	39368.76248	0.15714	0.21437	0.15647	0.22442	6.83E-03	3.69E-07	4.40E-07	3.67E-07	4.42E-07	6.8300E-03
520033.92	4258967.94	39357.84353	3.76285	0.33945	4.94539	0.33135	6.83E-03	8.83E-06	6.96E-07	1.16E-05	6.52E-07	6.8482E-03
520043.77	4258982	39355.30591	4.95041	0.33103	7.04842	0.32106	6.83E-03	1.16E-05	6.79E-07	1.65E-05	6.12E-07	6.8555E-03
520486.91	4258182.37	39327.97055	0.16545	0.28864	0.16924	0.30638	6.82E-03	3.88E-07	5.92E-07	3.97E-07	6.03E-07	6.8232E-03
520526.02	4258888.64	39287.5519	0.24019	0.13233	0.2306	0.13862	6.81E-03	5.64E-07	2.71E-07	5.41E-07	2.73E-07	6.8159E-03
520473.36	4258970.48	39279.21853	0.30718	0.1328	0.29333	0.13927	6.81E-03	7.21E-07	2.72E-07	6.89E-07	2.74E-07	6.8148E-03
520564.48	4258804.28	39267.95341	0.20015	0.13666	0.19224	0.14212	6.81E-03	4.70E-07	2.80E-07	4.51E-07	2.80E-07	6.8123E-03
520554.5	4258291.4	39258.62397	0.15699	0.20981	0.15639	0.21956	6.81E-03	3.69E-07	4.30E-07	3.67E-07	4.32E-07	6.8108E-03
520561.76	4258462.44	39257.58113	0.17169	0.18544	0.16835	0.19527	6.81E-03	4.03E-07	3.80E-07	3.95E-07	3.84E-07	6.8106E-03
520019.77	4258589.32	39250.58963	0.94386	2.67571	1.1862	2.28182	6.81E-03	2.22E-06	5.49E-06	2.78E-06	4.49E-06	6.8228E-03
520256.6	4258202.87	39223.083	0.22587	1.19669	0.23871	1.31906	6.80E-03	5.30E-07	2.45E-06	5.60E-07	2.60E-06	6.8092E-03
520315.43	4258173.05	39216.48298	0.20427	0.76972	0.21261	0.83566	6.80E-03	4.80E-07	1.58E-06	4.99E-07	1.64E-06	6.8061E-03
520529.4	4258230.59	39215.30576	0.15875	0.23538	0.15946	0.24862	6.80E-03	3.73E-07	4.83E-07	3.74E-07	4.89E-07	6.8034E-03
520227.17	4258222.78	39210.01456	0.23846	1.55801	0.25163	1.73243	6.80E-03	5.60E-07	3.20E-06	5.91E-07	3.41E-06	6.8086E-03
519996.34	4258892.47	39200.63374	1.69092	0.41327	1.97271	0.40592	6.80E-03	3.97E-06	9.48E-07	4.63E-06	7.99E-07	6.8094E-03
519978.37	4258782.62	39168.54224	1.08995	0.64058	1.25975	0.63261	6.79E-03	2.56E-06	1.31E-06	2.96E-06	1.21E-06	6.8016E-03
520344.82	4258163.15	39121.76994	0.1949	0.6371	0.20123	0.68569	6.79E-03	4.58E-07	1.31E-06	4.72E-07	1.35E-06	6.7891E-03
520568.08	4258795.69	39108.07238	0.19664	0.13709	0.18882	0.14248	6.78E-03	4.62E-07	2.81E-07	4.43E-07	2.80E-07	6.7846E-03
520023.85	4258953.79	39054.76647	2.95164	0.34837	3.70021	0.34178	6.77E-03	6.93E-06	7.14E-07	8.69E-06	6.73E-07	6.7909E-03
520109.3	4258352.41	39047.02963	0.33731	9.96295	0.35215	11.78272	6.77E-03	7.92E-07	2.04E-05	8.27E-07	2.32E-05	6.8178E-03
519983.15	4258842.38	39006.83023	1.29729	0.49359	1.49569	0.48042	6.77E-03	3.05E-06	1.01E-06	3.51E-06	9.46E-07	6.7741E-03
519979.02	4258808.3	39001.70129	1.15614	0.56839	1.33299	0.54817	6.76E-03	2.71E-06	1.17E-06	3.13E-06	1.08E-06	6.7728E-03
520464.23	4258984.27	38989.70893	0.32122	0.13241	0.30654	0.13898	6.76E-03	7.54E-07	2.72E-07	7.20E-07	2.74E-07	6.7646E-03
520567.38	4258399.59	38984.95814	0.16363	0.18816	0.1613	0.19783	6.76E-03	3.84E-07	3.86E-07	3.79E-07	3.89E-07	6.7633E-03
520583.02	4258736.05	38955.92287	0.18052	0.14219	0.17308	0.14804	6.76E-03	4.24E-07	2.92E-07	4.06E-07	2.91E-07	6.7581E-03
520395.46	4259062.77	38937.56038	0.4567	0.13596	0.43418	0.14478	6.75E-03	1.07E-06	2.79E-07	1.02E-06	2.85E-07	6.7562E-03
520495.74	4258186.15	38921.34536	0.1634	0.27639	0.16683	0.29331	6.75E-03	3.84E-07	5.67E-07	3.92E-07	5.77E-07	6.7526E-03
520538.76	4258244.61	38914.50589	0.15718	0.22586	0.15705	0.23788	6.75E-03	3.69E-07	4.63E-07	3.69E-07	4.68E-07	6.7512E-03
520393.8	4258153.3	38895.63801	0.18172	0.47801	0.18617	0.50886	6.75E-03	4.27E-07	9.80E-07	4.37E-07	1.00E-06	6.7491E-03
520437.91	4259015.18	38881.90904	0.36611	0.1327	0.34908	0.14007	6.74E-03	8.60E-07	2.72E-07	8.20E-07	2.76E-07	6.7461E-03
520403.59	4258153.33	38877.29144	0.17956	0.45265	0.18402	0.48084	6.74E-03	4.22E-07	9.28E-07	4.32E-07	9.47E-07	6.7458E-03
520567.71	4258374.57	38870.99606	0.16103	0.1903	0.15933	0.20032	6.74E-03	3.78E-07	3.90E-07	3.74E-07	3.94E-07	6.7435E-03
520523.44	4258218.03	38853.0012	0.15908	0.24217	0.16058	0.25614	6.74E-03	3.73E-07	4.97E-07	3.77E-07	5.04E-07	6.7406E-03
520413.37	4258153.36	38851.35997	0.17747	0.42881	0.18193	0.45498	6.74E-03	4.17E-07	8.79E-07	4.27E-07	8.96E-07	6.7412E-03
520549.22	4258269.12	38842.36126	0.15628	0.21578	0.15557	0.22615	6.74E-03	3.67E-07	4.43E-07	3.65E-07	4.45E-07	6.7387E-03
520128.97	4258322.47	38834.1716	0.30762	6.01225	0.31778	7.01049	6.74E-03	7.22E-07	1.23E-05	7.46E-07	1.38E-05	6.7632E-03
520084.79	4259031.32	38824.14846	14.49393	0.30653	19.95932	0.28818	6.73E-03	3.40E-05	6.29E-07	4.69E-05	5.67E-07	6.8160E-03
520571.67	4258787.1	38809.70012	0.19312	0.13741	0.18537	0.14273	6.73E-03	4.53E-07	2.82E-07	4.35E-07	2.81E-07	6.7328E-03
520496.72	4258940.8	38787.28299	0.27515	0.13158	0.26328	0.13794	6.73E-03	6.46E-07	2.70E-07	6.18E-07	2.72E-07	6.7293E-03
520384.01	4258153.27	38775.36665	0.18372	0.50542	0.18832	0.53908	6.73E-03	4.31E-07	1.04E-06	4.42E-07	1.06E-06	6.7284E-03
520421.66	4259031.91	38771.46908	0.39782	0.13317	0.37884	0.14112	6.72E-03	9.34E-07	2.73E-07	8.89E-07	2.78E-07	6.7271E-03
519981.79	4258718.53	38762.96747	0.96707	0.89782	1.12901	0.83992	6.72E-03	2.27E-06	1.84E-06	2.65E-06	1.65E-06	6.7317E-03
520423.16	4258153.39	38752.83883	0.17533	0.40644	0.1798	0.43092	6.72E-03	4.12E-07	8.34E-07	4.22E-07	8.48E-07	6.7240E-03
520505.92	4258926.98	38725.1791	0.26369	0.1313	0.25254	0.13767	6.72E-03	6.19E-07	2.69E-07	5.93E-07	2.71E-07	6.7185E-03
520049.35	4258994.29	38720.80873	5.92973	0.32156	9.0923	0.31069	6.72E-03	1.39E-05	6.59E-07	2.13E-05	6.12E-07	6.7525E-03
520513.92	4258203.94	38708.3466	0.16029	0.25334	0.16268	0.26835	6.71E-03	3.76E-07	5.20E-07	3.82E-07	5.28E-07	6.7156E-03
520335.03	4258163.12	38691.55196	0.1967	0.67793	0.20364	0.73204	6.71E-03	4.62E-07	1.39E-06	4.78E-07	1.44E-06	6.7146E-03
519997.95	4258803.12	38679.6867	1.75158	0.39768	2.04868	0.39106	6.71E-03	4.11E-06	8.16E-07	4.81E-06	7.70E-07	6.7193E-03
519984.55	4258701.08	38664.77567	0.94998	0.99898	1.11479	0.92922	6.71E-03	2.23E-06	2.05E-06	2.62E-06

520486.63	4258172.24	38092.19219	0.16348	0.2904	0.16744	0.30798	6.61E-03	3.84E-07	5.96E-07	3.93E-07	6.06E-07	6.6089E-03
519999.43	4258913.73	38084.07074	1.80954	0.38295	2.12193	0.37694	6.61E-03	4.25E-06	7.85E-07	4.98E-06	7.42E-07	6.6163E-03
520430.4	4259028.3	38076.54978	0.38052	0.13152	0.36266	0.13915	6.60E-03	8.93E-07	2.70E-07	8.51E-07	2.74E-07	6.6065E-03
520446.41	4259011.66	38067.20209	0.35106	0.1311	0.33493	0.13814	6.60E-03	8.24E-07	2.69E-07	7.86E-07	2.72E-07	6.6047E-03
520568.02	4258337.24	38037.34622	0.15697	0.19406	0.15638	0.20395	6.60E-03	3.69E-07	3.98E-07	3.67E-07	4.01E-07	6.5989E-03
520565.29	4258316.05	38001.62798	0.15572	0.19855	0.15534	0.20814	6.59E-03	3.66E-07	4.07E-07	3.65E-07	4.10E-07	6.5928E-03
520207.56	4258232.72	37984.84869	0.24283	1.90446	0.25445	2.12989	6.59E-03	5.70E-07	3.91E-06	5.97E-07	4.19E-06	6.5976E-03
520246.81	4258202.84	37970.36235	0.22538	1.30526	0.23826	1.4415	6.59E-03	5.29E-07	2.68E-06	5.59E-07	2.84E-06	6.5924E-03
520472.83	4258980.71	37944.49661	0.30849	0.13064	0.29465	0.137	6.58E-03	7.24E-07	2.68E-07	6.92E-07	2.70E-07	6.5833E-03
520412.82	4259045.58	37923.47428	0.41662	0.13229	0.39641	0.14048	6.58E-03	9.78E-07	2.71E-07	9.31E-07	2.77E-07	6.5801E-03
519987.12	4258683.15	37918.47876	0.91914	1.11524	1.08577	1.03049	6.58E-03	2.16E-06	2.29E-06	2.55E-06	2.03E-06	6.5858E-03
520522.83	4258207.76	37891.40378	0.15781	0.2435	0.15973	0.25763	6.57E-03	3.70E-07	4.99E-07	3.75E-07	5.07E-07	6.5738E-03
520532.42	4258221.88	37881.07897	0.15648	0.23297	0.15744	0.24608	6.57E-03	3.67E-07	4.78E-07	3.70E-07	4.84E-07	6.5720E-03
520582.47	4258761.33	37880.50228	0.18331	0.13828	0.17583	0.1436	6.57E-03	4.30E-07	2.84E-07	4.13E-07	2.83E-07	6.5716E-03
519975.31	4258799.36	37875.21781	1.07534	0.58491	1.23465	0.56226	6.57E-03	2.52E-06	1.20E-06	2.90E-06	1.11E-06	6.5770E-03
520354.64	4258153.18	37859.45642	0.18905	0.60164	0.19498	0.6457	6.57E-03	4.44E-07	1.23E-06	4.58E-07	1.27E-06	6.5700E-03
520148.64	4258292.53	37832.61276	0.28094	4.14101	0.28892	4.77688	6.56E-03	6.60E-07	8.49E-06	6.78E-07	9.40E-06	6.5811E-03
520547.31	4258859.81	37825.09363	0.21874	0.13116	0.21033	0.13696	6.56E-03	5.14E-07	2.69E-07	4.94E-07	2.70E-07	6.5621E-03
520564.14	4258305.55	37819.12907	0.15499	0.20053	0.15412	0.20999	6.56E-03	3.64E-07	4.11E-07	3.63E-07	4.13E-07	6.5611E-03
520565.05	4258471.07	37812.9771	0.17061	0.18233	0.16694	0.19202	6.56E-03	4.01E-07	3.74E-07	3.92E-07	3.78E-07	6.5600E-03
520534.74	4258885.03	37800.94639	0.23168	0.13022	0.22266	0.13627	6.56E-03	5.44E-07	2.67E-07	5.23E-07	2.68E-07	6.5580E-03
520002.98	4258925.19	37789.73882	1.93743	0.36951	2.28789	0.36397	6.55E-03	4.55E-06	7.58E-07	5.37E-06	7.16E-07	6.5659E-03
520570.81	4258408.58	37767.65948	0.16286	0.18512	0.16035	0.19447	6.55E-03	3.82E-07	3.80E-07	3.76E-07	3.83E-07	6.5521E-03
520495.41	4258175.99	37747.65884	0.16159	0.27806	0.16524	0.29487	6.55E-03	3.79E-07	5.70E-07	3.88E-07	5.80E-07	6.5491E-03
520040.25	4258990.54	37737.96897	4.489	0.31886	6.1445	0.31012	6.55E-03	1.05E-05	6.54E-07	1.44E-05	6.10E-07	6.5717E-03
520014.87	4258950.08	37716.69445	2.44483	0.34608	2.97336	0.34058	6.54E-03	5.74E-06	7.10E-07	6.98E-06	6.70E-07	6.5559E-03
520513.42	4258193.72	37691.30541	0.15887	0.25472	0.16159	0.26982	6.54E-03	3.73E-07	5.22E-07	3.79E-07	5.31E-07	6.5392E-03
519975.82	4258752.35	37674.07665	0.97052	0.73448	1.12468	0.6943	6.53E-03	2.28E-06	1.51E-06	2.64E-06	1.37E-06	6.5422E-03
519997.12	4258646.05	37670.77618	0.90804	1.47593	1.03901	1.33901	6.53E-03	2.13E-06	3.03E-06	2.56E-06	2.64E-06	6.5442E-03
520029.65	4258560.18	37664.87291	0.88365	3.71682	1.08974	3.02367	6.53E-03	2.07E-06	7.62E-06	2.56E-06	5.95E-06	6.5510E-03
520295.85	4258172.99	37653.6389	0.20636	0.8853	0.21659	0.96544	6.53E-03	4.84E-07	1.82E-06	5.08E-07	1.90E-06	6.5356E-03
519974.62	4258773.58	37646.11176	1.00602	0.65932	1.16047	0.62782	6.53E-03	2.36E-06	1.35E-06	2.72E-06	1.24E-06	6.5372E-03
520559.2	4258283.4	37639.78333	0.15419	0.20672	0.15354	0.21615	6.53E-03	3.62E-07	4.24E-07	3.60E-07	4.25E-07	6.5300E-03
520463.8	4258994.45	37633.35988	0.32238	0.13023	0.30785	0.13671	6.53E-03	7.57E-07	2.67E-07	7.23E-07	2.69E-07	6.5294E-03
520217.38	4258222.75	37629.37008	0.23661	1.72136	0.24862	1.91857	6.53E-03	5.55E-07	3.53E-06	5.84E-07	3.78E-06	6.5355E-03
520276.24	4258182.93	37624.43587	0.21305	1.0251	0.22469	1.12349	6.53E-03	5.00E-07	2.10E-06	5.27E-07	2.21E-06	6.5311E-03
520547.5	4258248.36	37619.84578	0.15445	0.21804	0.154	0.22916	6.52E-03	3.63E-07	4.47E-07	3.62E-07	4.51E-07	6.5266E-03
520505.17	4258937.3	37554.66005	0.26515	0.12949	0.25393	0.13572	6.51E-03	6.22E-07	2.66E-07	5.96E-07	2.67E-07	6.5154E-03
520050.28	4259004.67	37552.07346	6.13684	0.11126	9.53998	0.30062	6.51E-03	1.44E-05	6.38E-07	2.24E-05	5.92E-07	6.5513E-03
520062.25	4258475.37	37545.72844	0.59768	16.78882	0.66597	8.8469	6.51E-03	1.40E-06	3.44E-05	1.56E-06	1.74E-05	6.5669E-03
519985.47	4258877.99	37525.38714	1.40187	0.42743	1.61166	0.41878	6.51E-03	3.29E-06	8.77E-07	3.78E-06	8.24E-07	6.5174E-03
520563.12	4258295.09	37497.81958	0.15415	0.20247	0.15358	0.21181	6.50E-03	3.62E-07	4.15E-07	3.61E-07	4.17E-07	6.5054E-03
520315.46	4258163.05	37492.93392	0.1995	0.77236	0.2081	0.83851	6.50E-03	4.68E-07	1.58E-06	4.89E-07	1.65E-06	6.5072E-03
519975.82	4258824.69	37453.49251	1.13136	0.52231	1.29654	0.50577	6.50E-03	2.66E-06	1.07E-06	3.04E-06	9.96E-07	6.5039E-03
520344.85	4258153.15	37440.5907	0.19069	0.63929	0.19727	0.68788	6.49E-03	4.48E-07	1.31E-06	4.63E-07	1.35E-06	6.4975E-03
520514.42	4258923.46	37436.22402	0.25424	0.12918	0.2437	0.13539	6.49E-03	5.97E-07	2.65E-07	5.72E-07	2.67E-07	6.4948E-03
520590.3	4258718.69	37394.10021	0.17441	0.14214	0.16744	0.14807	6.49E-03	4.09E-07	2.92E-07	3.93E-07	2.91E-07	6.4872E-03
520009.85	4258608.75	37378.97896	0.90013	1.06205	1.10405	1.81954	6.48E-03	2.11E-06	4.23E-06	2.59E-06	3.58E-06	6.4957E-03
520413.41	4258143.36	37346.16876	0.17429	0.4306	0.17855	0.45649	6.48E-03	4.09E-07	8.83E-07	4.19E-07	8.99E-07	6.4801E-03
520393.83	4258143.3	37343.84389	0.17829	0.47981	0.18267	0.51053	6.48E-03	4.19E-07	9.84E-07	4.29E-07	1.00E-06	6.4800E-03
520403.62	4258143.33	37335.16456	0.17623	0.45448	0.18056	0.48241	6.48E-03	4.14E-07	9.32E-07	4.24E-07	9.50E-07	6.4783E-03
520421.51	4259041.98	37332.24407	0.39834	0.13062	0.37933	0.13851	6.48E-03	9.35E-07	2.68E-07	8.91E-07	2.73E-07	6.4775E-03
520439.14	4259024.68	37331.61377	0.36423	0.12993	0.34743	0.13723	6.47E-03	8.55E-07	2.66E-07	8.16E-07	2.70E-07	6.4772E-03
520586.06	4258752.74	37318.74602	0.1801	0.13824	0.17271	0.14367	6.47E-03	4.23E-07	2.84E-07	4.05E-07	2.83E-07	6.4742E-03
520504.19	4258179.75	37296.05973	0.15958	0.26658	0.16288	0.28262	6.47E-03	3.75E-07	5.47E-07	3.82E-07	5.56E-07	6.4707E-03
520256.63	4258192.87	37280.95946	0.21909	1.20189	0.23164	1.32307	6.47E-03	5.14E-07	2.46E-06	5.44E-07	2.60E-06	6.4723E-03
520138.82	4258302.5	37258.42225	0.287	4.9384	0.29512	5.73274	6.46E-03	6.74E-07	1.01E-05	6.93E-07	1.13E-05	6.4851E-03
520558.12	4258272.93	37248.62788	0.15341	0.20823	0.15264	0.21788	6.46E-03	3.60E-07	4.27E-07	3.58E-07	4.29E-07	6.4622E-03
519987.32	4258888.75	37245.49185	1.45789	0.41106	1.67806	0.40342	6.46E-03	3.42E-06	8.43E-07	3.94E-06	7.94E-07	6.4691E-03
520423.19	4258143.39	37244.51713	0.17222	0.40836	0.17652	0.43237	6.46E-03	4.04E-07	8.38E-07	4.14E-07	8.51E-07	6.4624E-03
520384.04	4258143.27	37236.77884	0.18022	0.50711	0.18479	0.54085	6.46E-03	4.23E-07	1.04E-06	4.34E-07	1.06E-06	6.4615E-03
520099.48	4258362.38	37230.91037	0.34229	14.18533	0.36026	15.79597	6.46E-03	8.04E-07	2.91E-05	8.46E-07	3.11E-05	6.5194E-03
520454.9	4259008.14	37216.5438	0.33685	0.12954	0.3216	0.13627	6.46E-03	7.91E-07	2.66E-07	7.55E-07	2.68E-07	6.4571E-03
520026.07	4258974.69	37204.43612	3.12707	0.32583	3.94511	0.31942	6.45E-03	7.34E-06	6.68E-07	9.26E-06	6.29E-07	6.4708E-03
520523.87	4258909.54	37202.07261	0.24371	0.12883	0.23386	0.13497	6.45E-03	5.72E-07	2.64E-07	5.49E-07	2.66E-07	6.4542E-03
519979.79	4258858.39	37177.70756	1.25695	0.45699	1.44149	0.44599	6.45E-03	2.95E-06	9.37E-07	3.38E-06	8.78E-07	6.4565E-03
520570.76	4258434.32	37160.63871	0.16504	0.18264	0.16217	0.19188	6.45E-03	3.87E-07	3.75E-07	3.81E-07	3.78E-07	6.4469E-03
520227.2	4258212.78	37152.37825	0.23035	1.56504	0.24268	1.73711	6.44E-03	5.41E-07	3.21E-06	5.70E-07	3.42E-06	6.4517E-03
520591.37	4258692.17	37151.56989	0.17143	0.14589	0.16463	0.1518	6.44E-03	4.02E-07	2.99E-07	3.86E-07	2.99E-07	6.4452E-03
520568.64	4258454.63	37129.91221	0.16763	0.18181	0.16438	0.19125	6.44E-03	3.94E-07	3.73E-07	3.86E-07	3.76E-07	6.4415E-03
520004.49	4258935.8	37107.55027	2.00189	0.35649	2.37177	0.35133	6.44E-03	4.70E-06	7.31E-07	5.57E-06	6.92E-07	6.4478E-03
520560.71	4258837.22	37072.11137	0.20604	0.13118	0.1981	0.13667	6.43E-03	4.84E-07	2.69E-07	4.65E-07	2.69E-07	6.4315E-03
520374.25	4258143.24	37072.04989	0.18211	0.53643	0.18697	0.57369	6.43E-03	4.28E-07	1.10E-06	4.39E-07	1.13E-06	6.4311E-03
520432.38	4258143.42	37066.70948	0.1701	0.38749	0.17446	0.40892	6.43E-03	3.99E-07	7.95E-07	4.10E-07	8.07E-07	6.4315E-03
520468.93	4258154.65	37066.04003	0.16436	0.31993	0.1689	0.3384	6.43E-03	3.86E-07	6.56E-07	3.97E-07	6.66E-07	6.4310E-03
520460.21	4258150.92	37058.83867	0.16567	0.33501	0.17026	0.35422	6.43E-03	3.89E-07	6.87E-07	4.00E-07	6.97E-07	6.4299E-03
520564.28	4258828.71	37056.2589	0.20257	0.13181	0.19479	0.13721	6.43E-03	4.76E-07	2.70E-07	4.57E-07	2.70E-07	6.4287E-03
520083.42	4259043.59	37018.32714	14.37839	0.2941	21.73969	0.27703	6.42E-03	3.38E-05	6.03E-07	5.10E-05	5.45E-07	6.5066E-03
520490.69	4258963.31	37013.9385	0.28375	0.129	0.27154	0.13514	6.42E-03	6.66E-07	2.65E-07	6.37E-07	2.66E-07	6.4217E-03
520335.07	4258153.12	37011.50578	0.19232	0.68021	0.19957	0.73427	6.42E-03	4.52E-07	1.40E-06	4.69E-07	1.45E-06	6.4232E-03
520500.12	4258949.4	37009.24783	0.27162	0.12874	0.26004	0.13489	6.42E-03	6.38E-07	2.64E-07	6.10E-07	2.66E-07	6.4209E-03
520567.84	4258820.2	37004.67434	0.19915	0.13231	0.19148	0.13764	6.42E-03	4.68E-07	2.71E-07	4.50E-07	2.71E-07	6.4198E-03
520477.66	4258158.38	37003.09354	0.16294	0.3057	0.16732	0.32354	6.42E-03	3.83E-07	6.27E-07	3.93E-07	6.37E-07	6.4201E-03
520531.73	4258211.57	36966.38478	0.15526	0.23434	0.15672	0.24756	6.41E-03	3.65E-07	4.81E-07	3.68E-07	4.87E-07	6.4134E-03
520522.26	4258197.5	36960.95306	0.15652	0.24479	0.1588	0.25905	6.41E-03	3.67E-07	5.02E-07	3.73E-07	5.10E-07	6.4125E-03
520546.12	4258870.31	36960.54334	0.22056	0.12935	0.21606	0.13516	6.41E-03	5.18E-07	2.65E-07	4.98E-07	2.66E-07	6.4122E-03
520053.78	4259013.71	36960.15181	6.95352	0.3046	11.70104	0.29347	6.41E-03	1.63E-05	6.25E-07	2.75E-05	5.78E-07	6.4556E-03
520451.49	4258147.18	36946.50794	0.16681	0.35106	0.17138	0.37105	6.41E-03	3.92E-07	7.20E-07	4.02E-07	7.30E-07	6.4104E-03
520546.75	4258238.02	36931.83013	0.15347	0.21912	0.15333	0.23059	6.41E-03	3.60E-07	4.49E-07	3.60E-07	4.54E-07	6.4073E-03
520571.4	4258811.69	36914.58753	0.19578	0.13276	0.1882	0.13803	6.40E-03	4.60E-07	2.72E-07	4.42E-07	2.72E-07	6.4041E-03
520481.44	4258977.14	36905.35144	0.29641	0.12898	0.28355	0.13514	6.40E-03	6.96E-07	2.65E-07	6.66E-07	2.66E-07	6.4030E-03
520486.38	4258162.11	36901.42144	0.16147	0.29209	0.16554	0.30946	6.40E-03	3.79E-07	5.99E-07	3.89E-07	6.09E-07	6.4024E-03
520016.08	4258960.58	36896.12842	2.5177	0.33449	3.07033	0.32915	6.40E-03	5.91E-06	6.86E-07	7.21E-06	6.48E-07	6.4138E-03
519989.02	4258899.44	36869.66475	1.51106	0.39573	1.74263	0.38891	6.39E-03	3.55E-06	8.12E-07	4.09E-06	7.66E-07	6.4041E-03
520533.54	4258895.53	36853.69395	0.2335	0.12854	0.22438	0.13455	6.39E-03	5.48E-07	2.64E-07	5.27E-07	2.65E-07	6.3937E-03
520541.4	4258225.72	36830.06956	0.15387	0.22428	0.15443	0.23656	6.39E-03	3.61E-07	4.60E-07	3.62E-07	4.66E-07	6.3897E-03
520286.06	4258172.96	36798.92487	0.20699	0.95308	0.21801	1.04168	6.38E-03	4.86E-07	1.95E-06	5.12E-07	2.05E-06	6.3876E-03
520093.34	4259053.57	36798.13068	13.89992	0.28916	12.78968	0.27086	6.38E-03	3.26E-05	5.93E-07	3.00E-05	5.33E-07	6.4463E-03
520557.14	4258262.49	36794.70173	0.1526	0.20949	0.15118	0.21945	6.38E-03	3.58E-07	4.30E-07	3.56E-07	4.32E-07	6.3834E-03
520574.96	4258803.19	36783.59665	0.19245	0.13322	0.18496	0.1384	6.38E-03	4.52E-07	2.73E-07	4.34E-07	2.72E-07	6.3814E-03
520442.77	4258143.45	36768.9607	0.16786	0.36803	0.17231	0.38897	6.38E-03	3.94E-07	7.55E-07	4.05E-07	7.66E-07	6.3797E-03
520589.66	4258744.15	36763.15981	0.17705	0.1382	0.1698	0.14375	6.38E-03	4.16E-07	2.83E-07	3.99E-07	2.83E-07	6.3778E-03
520305.67	4258163.02	36733.65246	0.20041	0.82749	0.20998	0.89998	6.37E-03	4.70E-07	1.70E-06	4.93E-07	1.77E-06	6.3757E-03
520512.96	4258183.51	36719.95302	0.15743	0.25601	0.16039	0.2712	6.37E-03	3.70E-07	5.25E-07	3.77E-07	5.34E-07	6.3707E-03
520031.14	4258986.78	36715.96918	3.53573	0.31636	4.55676	0.30938	6.37E-03	8.30E-06	6.49E-07	1.07E-05	6.09E-07	6.3885E-03
520430.19	4259038.39	36687.67501	0.38115	0.12906	0.36335	0.13665	6.36E-03	8.95E-07	2.65E-07	8.53E-07	2.69E-07	6.3656E-03
520364.46	4258143.21	36666.25703	0.18357	0.56881	0.18909	0.60904	6.36E-03	4.31E-07	1.17E-06	4.44E-07	1.20E-06	6.3628E-03
520472.35	4258990.91	36663.35954	0.30966	0.12853	0.29592	0.13479	6.36E-03	7.27E-07	2.64E-07	6.95E-07	2.65E-07	6.3610E-03
520041.24	4259000.94	36662.78451	4.63228	0.30871	6.37893	0.30011	6.36E-03	1.09E-05	6.33E-07	1.50E-05	5.91E-07	6.3861E-03
520237.02	4258202.81	36654.70058	0.22432	1.4291	0.23672	1.58129	6.36E-03	5.27E-07	2.93E-06	5.56E-07	3.11E-06	6.3647E-03
520495.1	4258165.85	36627.48183	0.15976	0.2796	0.16355	0.29628	6.35E-03	3.75E-07	5.73E-07	3.84E-07	5.83E-07	6.3548E-03
519987.12	4258673.87	36621.50038	0.88026	1.16134	1.03724	1.07484	6.35E-03	2.07E-06	2.39E-06	2.44E-06	2.12E-06	6.3608E-03
519971.61	4258790.42	36619.50343	0.99867	0.60154	1.14354	0.57611	6.35E-03	2.34E-06	1.23E-06	2.68E-06	1.13E-06	6.3589E-03
520578.53	4258794.68	36607.76583	0.18918	0.13367	0.18179	0.13878	6.35E-03	4.44E-07	2.74E-07	4.27E-07	2.73E-07	6.3509E-03
520109.33	4258342.41	36590.57424	0.31945	0.98845	0.33266	1.84693	6.35E-03	7.50E-07	2.05E-05	7.81E-07	2.33E-05	6.3918E-03
519976.16	4258849.63	36589.43558	1.17784	0.46952	1.34702	0.45727	6.35E-03	2.77E-06	9.63E-07	3.16E-06	9.00E-07	6.3541E-03
520266.45	4258182.9	36580.33458	0.21304	1.11042	0.22515	1.21897	6.34E-03	5.00E-07	2.28E-06	5.29E-07	2.40E-06	6.3504E-03
520447.88	4259021.06	36542.18831	0.3489	0.12835	0.33302	0.13532	6.34E-03	8.19E-07	2.63E-07	7.82E-07	2.66E-07	6.3402E-03
520129.01	4258312.47	36520.58074	0.29287	0.62615	0.3016	7.05287	6.33E-03	6.88E-07	1.24E-05	7.08E-07	1.39E-05	6.3620E-03
520568.33	4258479.69	36517.38266	0.16948	0.17925	0.16543	0.18876	6.33E-03	3.98E-07	3.68E-07	3.88E-07	3.72E-07	6.3353E-03
519972.15	4258815.84	36512.44585	1.05607	0.53702	1.20671	0.51844	6.33E-03	2.48E-06	1.10E-06	2.83E-06	1.02E-06	6.3404E-03
520593.93	4258710	36501.77592	0.17151	0.142	0.16471	0.14788	6.33E-03	4.03E-07	2.91E-07	3.87E-07	2.91E-07	6.3324E-03
520325.28	4258153.08	36469.21349	0.19368	0.72527	0.20172	0.78507	6.33E-03	4.55E-07	1.49E-06	4.74E-07	1.55E-06	6.3294E-03
519990.57	4258910.07	36410.27648	1.56148	0.38113	1.80398	0.37502	6.32E-03	3.67E-06	7.82E-07	4.24E-06	7.38E-07	6.3246E-03
520582.09	4258786.17	36386.11647	0.18597	0.13409	0.17868	0.13913	6.31E-03	4.37E-07	2.75E-07	4.19E-07	2.74E-07	6.3124E-03
520005.88	4258946.37	36385.09125	2.06374	0.3442	2.45218	0.33934	6.31E-03	4.84E-06	7.06E-07	5.76E-06	6.68E-07	6.3228E-03
520049.44	4258511.61	36364.17505	0.73225	7.76912	0.83922	5.59261	6.31E-03	1.72E-06	1.59E-05	1.97E-06	1.10E-05	6.3378E-03
520543.46	4258881.42	36360.81749	0.2236	0.12816	0.2151	0.13398	6.31E-03	5.25E-07	2.63E-07	5.05E-07	2.64E-07	6.3082E-03
520513.62	4258933.8	36349.13744	0.25566	0.12742	0.24504	0.1335	6.30E-03	6.00E-07	2.61E-07	5.75E-07	2.63E-07	6.3063E-03
520178.14	4258252.63	36339.57069	0.25137	2.69428	0.25967	3.04777	6.30E-03	5.90E-07	5.53E-06	6.10E-07	6.00E-06	6.3157E-03
520187.96	4258242.66	36335.29894	0.24562	2.38407	0.25465	2.68541	6.30E-03	5.77E-07	4.89E-06	5.98E-07	5.29E-06	6.3135E-03
520463.4	4259004.63	36334.20089	0.32342	0.128	0.30902	0.13444	6.30E-03	7.59E-07	2.63E-07	7.25E-07	2.65E-07	6.3040E-03
520555.76	4258856.31	36317.91984	0.21148	0.12912	0.20348	0.13468	6.30E-03	4.96E-07	2.65E-07	4.78E-07	2.65E-07	6.3007E-03
520556.25	4258252.1	36273.72237	0.15173	0.21061	0.15104	0.2209	6.29E-03	3.56E-07	4.32E-07	3.55E-07	4.35E-07	6.2931E-03
520354.67	4258143.18	36263.23952	0.18507	0.60358	0.19125	0.64755	6.29E-03	4.34E-07	1.24E-06	4.49E-07	1.27E-06	6.2931E-03
520503.82	4258169.58	36239.96143	0.1579	0.26805	0.16139	0.28401	6.29E-03	3.71E-07	5.50E-07	3.79E-07	5.59E-07	6.2875E-03
520168.32	4258262.6	36237.90039	0.25713	0.37877	0.26475	3.49536	6.29E-03	6.04E-07	6.30E-06	6.22E-07	6.88E-06	6.2997E-03
520593.26	4258735.56	36235.28018	0.17418	0.13829	0.16713	0.14392	6.28E-03	4.09E-07	2.84E-07	3.92E-07	2.83E-07	6.2862E-03
519975.25	4258726.86	36224.10129	0.89293	0.82688	1.03096	0.77652	6.28E-03	2.10E-06	1.70E-06	2.42E-06	1.53E-06	6.2906E-03
520197.78	4258232.69	36217.72564	0.23987	2.12702	0.24961	2.38616	6.28E-03	5.63E-07	4.36E-06	5.86E-07	4.70E-06	6.2920E-03
519978.13	4258709.69	36209.52903	0.88018	0.91397	1.02157	0.85402	6.28E-03	2.07E-06	1.87E-06	2.40E-06	1.68E-06	6.2884E-03
520522.93	4258919.94	36180.3681	0.24525	0.12712	0.23532	0.13316	6.28E-03	5.76E-07	2.61E-07	5.52E-07	2.62E-07	6.2770E-03
519993.84	4258921.41	36178.52297	1.65809	0.36773	1.92496	0.36223	6.27E-03	3.89E-06	7.54E-07	4.52E-06	7.13E-07	6.2849E-03
520531.1	4258201.28	36158.26239	0.15414	0.23546	0.15594	0.24894	6.27E-03	3.62E-07	4.83E-07	3.66E-07	4.90E-07	6.2732E-03
520585.65	4258777.66	36110.91993	0.18283	0.13444	0.17562	0.13945	6.26E-03	4.29E-07	2.76E-07	4.12E-07	2.75E-07	6.2647E-03
520019.73	4258579.62	36088.65605	0.87023	2.76919	1.08263	2.34707	6.26E-03	2.04E-06	5.68E-06	2.54E-06	4.62E-06	6.2743E-03
520246.84	4258192.84	36080.60981	0.21835	1.3108	0.23071	1.44547	6.26E-03	5.13E-07	2.69E-06	5.42E-07	2.85E-06	6.2646E-03
520017.21	4258971.04	36078.09097	2.58713	0.32358	3.16187	0.31836	6.26E-03	6.07E-06	6.64E-07	7

520217.41	4258212.75	35661.03782	0.22834	1.72856	0.23934	1.92314	6.19E-03	5.36E-07	3.55E-06	5.62E-07	3.79E-06	6.1937E-03
520022.04	4258983.02	35660.93825	2.8712	0.31413	3.56282	0.30853	6.19E-03	6.74E-06	6.44E-07	8.36E-06	6.07E-07	6.2016E-03
520451.78	4258137.29	35656.2261	0.16416	0.35213	0.16855	0.37171	6.18E-03	3.85E-07	7.22E-07	3.96E-07	7.32E-07	6.1866E-03
520007.17	4258956.89	35655.82157	2.12382	0.13263	2.53022	0.328	6.18E-03	4.99E-06	6.82E-07	5.94E-06	6.46E-07	6.1966E-03
520148.68	4258282.53	35650.21635	0.26854	4.15199	0.27531	4.7883	6.18E-03	6.30E-07	8.52E-06	6.46E-07	9.43E-06	6.2026E-03
520567.01	4258276.73	35628.2362	0.15056	0.20101	0.14981	0.21004	6.18E-03	3.53E-07	4.12E-07	3.52E-07	4.13E-07	6.1811E-03
519995.42	4258932.06	35614.21961	1.71291	0.35478	1.99369	0.34977	6.18E-03	4.02E-06	7.28E-07	4.68E-06	6.89E-07	6.1872E-03
520043.88	4259013.73	35588.45923	5.02612	0.29792	7.08623	0.28918	6.17E-03	1.18E-05	6.11E-07	1.66E-05	5.69E-07	6.2023E-03
520119.19	4258322.44	35581.80445	0.29834	7.59149	0.30829	8.959	6.17E-03	7.00E-07	1.56E-05	7.24E-07	1.76E-05	6.2061E-03
519999.93	4258628.19	35572.95395	0.85311	1.64747	1.02443	1.48419	6.17E-03	2.00E-06	3.38E-06	2.41E-06	2.92E-06	6.1807E-03
520554.5	4258866.84	35552.52068	0.21329	0.12741	0.20524	0.13299	6.17E-03	5.01E-07	2.61E-07	4.82E-07	2.62E-07	6.1679E-03
520597.57	4258701.32	35542.86902	0.16868	0.14192	0.16205	0.14768	6.16E-03	3.96E-07	2.91E-07	3.80E-07	2.91E-07	6.1661E-03
520596.85	4258726.96	35537.25388	0.1713	0.13824	0.16446	0.14392	6.16E-03	4.02E-07	2.84E-07	3.86E-07	2.83E-07	6.1651E-03
520542.18	4258891.95	35516.12541	0.22539	0.12657	0.21686	0.13236	6.16E-03	5.29E-07	2.60E-07	5.09E-07	2.61E-07	6.1617E-03
520374.28	4258133.24	35501.76525	0.17836	0.53839	0.18349	0.57518	6.16E-03	4.19E-07	1.10E-06	4.31E-07	1.13E-06	6.1607E-03
520093.77	4259064.4	35489.46738	13.63833	0.27993	12.53511	0.26236	6.16E-03	3.20E-05	5.74E-07	2.94E-05	5.16E-07	6.2180E-03
520496.67	4258156.51	35486.91654	0.15753	0.27845	0.16136	0.29484	6.16E-03	3.70E-07	5.71E-07	3.79E-07	5.80E-07	6.1569E-03
519968.48	425880?	35486.2011	0.98676	0.55136	1.1211	0.53081	6.15E-03	2.32E-06	1.13E-06	2.63E-06	1.04E-06	6.1620E-03
520256.66	4258182.87	35479.25287	0.21257	1.20675	0.22473	1.32675	6.15E-03	4.99E-07	2.47E-06	5.28E-07	2.61E-06	6.1598E-03
520442.8	4258133.45	35471.57332	0.16515	0.36955	0.16938	0.39018	6.15E-03	3.88E-07	7.58E-07	3.98E-07	7.68E-07	6.1547E-03
520471.9	4259001.11	35433.15533	0.31073	0.12643	0.29712	0.13261	6.15E-03	7.29E-07	2.59E-07	6.98E-07	2.61E-07	6.1477E-03
520335.1	4258143.12	35426.79034	0.18805	0.6824	0.19561	0.73629	6.14E-03	4.41E-07	1.40E-06	4.59E-07	1.45E-06	6.1484E-03
520592.77	4258760.64	35377.72191	0.17675	0.13471	0.16968	0.13982	6.14E-03	4.15E-07	2.76E-07	3.98E-07	2.75E-07	6.1375E-03
520039.52	4258531.05	35349.10545	0.7784	5.2708	0.91542	4.08555	6.13E-03	1.83E-06	1.08E-05	2.15E-06	8.04E-06	6.1540E-03
519978.31	4258885.03	35307.23942	1.26855	0.40862	1.44431	0.40061	6.12E-03	2.98E-06	8.38E-07	3.39E-06	7.89E-07	6.1319E-03
520530.52	4258191.02	35288.73782	0.15287	0.23673	0.15507	0.25026	6.12E-03	3.59E-07	4.86E-07	3.64E-07	4.93E-07	6.1224E-03
520227.23	4258202.78	35275.71592	0.22268	1.57116	0.23408	1.74173	6.12E-03	5.23E-07	3.22E-06	5.50E-07	3.43E-06	6.1261E-03
520565.95	4258266.27	35273.31495	0.1498	0.20243	0.14898	0.21165	6.12E-03	3.52E-07	4.15E-07	3.50E-07	4.17E-07	6.1195E-03
520447.56	4259031.2	35261.50799	0.3497	0.12602	0.33396	0.13298	6.12E-03	8.21E-07	2.58E-07	7.84E-07	2.62E-07	6.1181E-03
520539.94	4258205.07	35245.61877	0.15166	0.22681	0.15303	0.23942	6.11E-03	3.56E-07	4.65E-07	3.59E-07	4.71E-07	6.1148E-03
519967.9	4258781.48	35226.05062	0.9253	0.61784	1.05795	0.5894	6.11E-03	2.17E-06	1.27E-06	2.48E-06	1.16E-06	6.1169E-03
520522.07	4258930.3	35174.58071	0.24664	0.12543	0.23864	0.13136	6.10E-03	5.79E-07	2.57E-07	5.56E-07	2.59E-07	6.1025E-03
520364.49	4258133.21	35170.36814	0.17986	0.57049	0.18558	0.61067	6.10E-03	4.22E-07	1.17E-06	4.36E-07	1.20E-06	6.1034E-03
520521.26	4258177.04	35168.43631	0.15384	0.24725	0.15666	0.2617	6.10E-03	3.61E-07	5.07E-07	3.68E-07	5.15E-07	6.1016E-03
519987.12	4258664.6	35154.70199	0.83913	1.21556	0.98833	1.11838	6.10E-03	1.97E-06	2.49E-06	2.32E-06	2.20E-06	6.1064E-03
520505.64	4258160.35	35125.64432	0.15573	0.26663	0.1593	0.28231	6.09E-03	3.66E-07	5.47E-07	3.74E-07	5.56E-07	6.0942E-03
519968.89	4258832.1	35119.68409	1.03361	0.4954	1.1763	0.48	6.09E-03	2.43E-06	1.02E-06	2.76E-06	9.45E-07	6.0985E-03
520286.09	4258162.96	35111.56714	0.20152	0.95668	0.21259	1.04457	6.09E-03	4.73E-07	1.96E-06	4.99E-07	2.06E-06	6.0949E-03
520305.7	4258153.02	35109.72263	0.19553	0.83037	0.20531	0.90253	6.09E-03	4.59E-07	1.70E-06	4.82E-07	1.78E-06	6.0940E-03
520138.86	4258292.5	35106.08594	0.27398	4.95029	0.28093	5.74981	6.09E-03	6.43E-07	1.02E-05	6.60E-07	1.13E-05	6.1118E-03
519980.09	4258895.75	35066.73686	1.31575	0.39356	1.49988	0.38645	6.08E-03	3.09E-06	8.07E-07	3.52E-06	7.61E-07	6.0903E-03
520549.55	4258219.19	35030.8955	0.15026	0.21735	0.15067	0.22906	6.08E-03	3.53E-07	4.46E-07	3.54E-07	4.51E-07	6.0776E-03
519996.89	4258942.66	35027.68928	1.76652	0.34258	2.06134	0.33797	6.08E-03	4.15E-06	7.03E-07	4.84E-06	6.65E-07	6.0857E-03
520099.51	4258352.38	34964.48815	0.32378	14.21948	0.33988	15.96441	6.06E-03	7.60E-07	2.92E-05	7.98E-07	3.14E-05	6.1266E-03
520552.17	4258877.81	34964.33822	0.21592	0.12614	0.20788	0.13174	6.06E-03	5.07E-07	2.59E-07	4.88E-07	2.59E-07	6.0659E-03
520531.44	4258916.42	34960.78408	0.23672	0.12515	0.22738	0.13102	6.06E-03	5.56E-07	2.57E-07	5.34E-07	2.58E-07	6.0654E-03
519972.59	4258865.13	34939.73014	1.14218	0.43619	1.29637	0.42605	6.06E-03	2.68E-06	8.95E-07	3.04E-06	8.39E-07	6.0676E-03
520008.36	4258967.38	34928.5309	2.18133	0.32173	2.60394	0.31729	6.06E-03	5.12E-06	6.60E-07	6.11E-06	6.25E-07	6.0707E-03
520596.34	4258752.14	34910.48656	0.17382	0.1347	0.16686	0.13992	6.06E-03	4.08E-07	2.76E-07	3.92E-07	2.75E-07	6.0564E-03
520325.31	4258143.08	34893.68678	0.18925	0.72766	0.1976	0.78717	6.05E-03	4.44E-07	1.49E-06	4.64E-07	1.55E-06	6.0561E-03
520567.74	4258844.38	34890.65845	0.20123	0.12752	0.19366	0.1328	6.05E-03	4.72E-07	2.62E-07	4.55E-07	2.61E-07	6.0531E-03
520571.27	4258835.94	34880.5251	0.19795	0.12807	0.19051	0.13328	6.05E-03	4.65E-07	2.63E-07	4.47E-07	2.62E-07	6.0513E-03
520564.99	4258255.84	34864.43396	0.149	0.20364	0.1482	0.21312	6.05E-03	3.50E-07	4.18E-07	3.48E-07	4.20E-07	6.0486E-03
520465.36	4259013.82	34864.05565	0.32079	0.12533	0.3067	0.13167	6.05E-03	7.53E-07	2.57E-07	7.20E-07	2.59E-07	6.0490E-03
520266.48	4258172.9	34858.05149	0.20697	1.11473	0.21882	1.2223	6.05E-03	4.86E-07	2.29E-06	5.14E-07	2.41E-06	6.0517E-03
520574.8	4258827.51	34839.02641	0.1947	0.12866	0.18741	0.13379	6.04E-03	4.57E-07	2.64E-07	4.40E-07	2.63E-07	6.0441E-03
520237.05	4258192.81	34826.56462	0.2171	1.43488	0.22874	1.58516	6.04E-03	5.10E-07	2.94E-06	5.37E-07	3.12E-06	6.0476E-03
520354.71	4258133.18	34820.99095	0.18134	0.60518	0.18771	0.64941	6.04E-03	4.26E-07	1.24E-06	4.41E-07	1.28E-06	6.0429E-03
520498.65	4258970.02	34786.56512	0.27435	0.12516	0.26277	0.13103	6.03E-03	6.44E-07	2.57E-07	6.17E-07	2.58E-07	6.0353E-03
520023.17	4258993.48	34778.22622	2.9549	0.30414	3.67183	0.29863	6.03E-03	6.94E-06	6.24E-07	8.62E-06	5.88E-07	6.0489E-03
520508.02	4258956.13	34777.05519	0.26288	0.12493	0.2519	0.13081	6.03E-03	6.17E-07	2.56E-07	5.91E-07	2.57E-07	6.0336E-03
520578.33	4258819.08	34763.4806	0.19149	0.12904	0.18426	0.13412	6.03E-03	4.50E-07	2.65E-07	4.33E-07	2.64E-07	6.0310E-03
519981.72	4258906.42	34735.82745	1.36061	0.37925	1.55312	0.37291	6.02E-03	3.19E-06	7.78E-07	3.65E-06	7.34E-07	6.0331E-03
520054.23	4259033.71	34715.59983	7.13321	0.28614	12.12279	0.27579	6.02E-03	1.67E-05	5.87E-07	2.85E-05	5.43E-07	6.0676E-03
520489.45	4258983.84	34708.16886	0.28627	0.12521	0.27415	0.13109	6.02E-03	6.72E-07	2.57E-07	6.44E-07	2.58E-07	6.0218E-03
520600.45	4258718.37	34686.27353	0.16841	0.13798	0.16173	0.14368	6.02E-03	3.95E-07	2.83E-07	3.80E-07	2.83E-07	6.0175E-03
520009.81	4258599.06	34680.56553	0.83797	2.13145	1.02482	1.87578	6.02E-03	1.97E-06	4.37E-06	2.41E-06	3.69E-06	6.0276E-03
520469.58	4258134.9	34671.47207	0.15959	0.32175	0.16391	0.33952	6.01E-03	3.75E-07	6.60E-07	3.85E-07	6.68E-07	6.0157E-03
520514.62	4258164.19	34671.36908	0.15382	0.25555	0.15707	0.27053	6.01E-03	3.61E-07	5.24E-07	3.69E-07	5.33E-07	6.0154E-03
520478.5	4258138.72	34642.18421	0.15834	0.3072	0.16266	0.32429	6.01E-03	3.72E-07	6.30E-07	3.82E-07	6.38E-07	6.0106E-03
520541.01	4258902.44	34640.47266	0.22708	0.12491	0.21841	0.13066	6.01E-03	5.33E-07	2.56E-07	5.13E-07	2.57E-07	6.0098E-03
520487.41	4258142.53	34606.63606	0.1571	0.29326	0.16122	0.30995	6.00E-03	3.69E-07	6.01E-07	3.78E-07	6.10E-07	6.0043E-03
520581.86	4258810.64	34592.64048	0.18826	0.12942	0.1811	0.13443	6.00E-03	4.42E-07	2.65E-07	4.25E-07	2.65E-07	6.0013E-03
519984.69	4258917.64	34589.21604	1.43502	0.36598	1.64352	0.36034	6.00E-03	3.37E-06	7.51E-07	3.86E-06	7.09E-07	6.0080E-03
520460.66	4258131.08	34582.06525	0.16064	0.33727	0.16492	0.3557	6.00E-03	3.77E-07	6.92E-07	3.87E-07	7.00E-07	6.0003E-03
520012.93	4258979.26	34573.43177	2.38653	0.31215	2.88087	0.30755	6.00E-03	5.60E-06	6.40E-07	6.76E-06	6.05E-07	6.0102E-03
520423.26	4258123.39	34552.6581	0.16634	0.41128	0.17026	0.43487	5.99E-03	3.91E-07	8.44E-07	4.00E-07	8.56E-07	5.9955E-03
520413.47	4258123.36	34549.10452	0.16807	0.43365	0.17212	0.45902	5.99E-03	3.95E-07	8.89E-07	4.04E-07	9.04E-07	5.9950E-03
520601.2	4258692.64	34531.60767	0.16595	0.14184	0.15943	0.14744	5.99E-03	3.90E-07	2.91E-07	3.74E-07	2.90E-07	5.9907E-03
520480.39	4258997.59	34529.93402	0.29872	0.12491	0.28596	0.13088	5.99E-03	7.01E-07	2.56E-07	6.71E-07	2.58E-07	5.9909E-03
520575.13	4258471.66	34515.14608	0.16556	0.17597	0.16169	0.18515	5.99E-03	3.89E-07	3.61E-07	3.80E-07	3.64E-07	5.9880E-03
520529.98	4258180.78	34513.32992	0.15169	0.23779	0.15413	0.2515	5.99E-03	3.56E-07	4.88E-07	3.62E-07	4.95E-07	5.9879E-03
520403.68	4258123.33	34508.28209	0.16981	0.45747	0.17405	0.48505	5.99E-03	3.99E-07	9.38E-07	4.09E-07	9.55E-07	5.9880E-03
520083.87	4259064.41	34497.15997	14.75429	0.27595	20.90457	0.26026	5.98E-03	3.46E-05	5.66E-07	4.91E-05	5.12E-07	6.0682E-03
520456.24	4259027.6	34494.96511	0.33532	0.12455	0.32047	0.13119	5.98E-03	7.87E-07	2.55E-07	7.52E-07	2.58E-07	5.9850E-03
520043.9	4259023.73	34493.42178	5.04856	0.28863	7.10193	0.28022	5.98E-03	1.19E-05	5.92E-07	1.67E-05	5.52E-07	6.0124E-03
520539.3	4258194.78	34492.67649	0.15056	0.22791	0.15231	0.24069	5.98E-03	3.53E-07	4.67E-07	3.58E-07	4.74E-07	5.9842E-03
520433.05	4258123.42	34455.35009	0.16449	0.39037	0.16839	0.41232	5.98E-03	3.86E-07	8.01E-07	3.95E-07	8.12E-07	5.9785E-03
520496.33	4258146.35	34441.52645	0.15565	0.28305	0.15955	0.29623	5.97E-03	3.65E-07	5.74E-07	3.75E-07	5.83E-07	5.9756E-03
520451.75	4258127.27	34437.32017	0.1616	0.35364	0.16577	0.37291	5.97E-03	3.79E-07	7.25E-07	3.89E-07	7.34E-07	5.9752E-03
520187.99	4258232.66	34415.9991	0.23632	2.3914	0.2441	2.69216	5.97E-03	5.55E-07	4.90E-06	5.73E-07	5.30E-06	5.9806E-03
520564.11	4258245.45	34406.75445	0.14819	0.20409	0.1475	0.21449	5.97E-03	3.48E-07	4.20E-07	3.46E-07	4.22E-07	5.9692E-03
520393.89	4258123.3	34401.60782	0.17149	0.483	0.17602	0.5131	5.97E-03	4.03E-07	9.91E-07	4.13E-07	1.01E-06	5.9696E-03
520344.92	4258133.15	34397.77248	0.18268	0.64306	0.18978	0.69169	5.97E-03	4.29E-07	1.32E-06	4.46E-07	1.36E-06	5.9697E-03
520178.17	4258242.63	34397.09198	0.24155	2.70194	0.2486	3.05586	5.97E-03	5.67E-07	5.54E-06	5.84E-07	6.02E-06	5.9787E-03
519998.25	4258953.21	34388.83808	1.81754	0.33103	2.12565	0.32675	5.96E-03	4.27E-06	6.79E-07	4.99E-06	6.43E-07	5.9752E-03
520129.04	4258302.47	34388.44548	0.27916	6.04277	0.28681	7.06575	5.96E-03	6.55E-07	1.24E-05	6.73E-07	1.39E-05	5.9922E-03
520599.9	4258743.63	34379.97448	0.17097	0.13472	0.16417	0.14003	5.96E-03	4.01E-07	2.76E-07	3.85E-07	2.76E-07	5.9644E-03
520197.81	4258222.69	34342.25139	0.23111	1.13369	0.23962	1.39238	5.96E-03	5.43E-07	4.38E-06	5.63E-07	4.71E-06	5.9667E-03
519968.81	4258856.03	34337.45934	1.06956	0.44823	1.21251	0.43679	5.96E-03	2.51E-06	9.19E-07	2.85E-06	8.60E-07	5.9628E-03
519964.81	4258798.15	34335.24087	0.91996	0.56598	1.04223	0.54303	5.96E-03	2.16E-06	1.16E-06	2.45E-06	1.07E-06	5.9621E-03
520295.91	4258152.99	34328.11068	0.19599	0.89179	0.20653	0.9708	5.95E-03	4.60E-07	1.83E-06	4.85E-07	1.91E-06	5.9587E-03
520246.87	4258182.84	34326.72262	0.21162	1.31594	0.22336	1.44902	5.95E-03	4.97E-07	2.70E-06	5.24E-07	2.85E-06	5.9604E-03
520588.93	4258793.77	34324.52412	0.18215	0.13036	0.17518	0.13521	5.95E-03	4.28E-07	2.67E-07	4.11E-07	2.66E-07	5.9548E-03
520548.78	4258208.85	34301.10759	0.1492	0.21862	0.1501	0.23045	5.95E-03	3.50E-07	4.48E-07	3.52E-07	4.54E-07	5.9510E-03
520093.79	4259074.4	34277.5253	13.54486	0.27165	12.4973	0.25478	5.95E-03	3.18E-05	5.57E-07	2.93E-05	5.02E-07	6.0075E-03
520384.1	4258123.27	34273.71355	0.1732	0.51037	0.17808	0.54355	5.94E-03	4.07E-07	1.05E-06	4.18E-07	1.07E-06	5.9476E-03
520168.35	425825?.6	34272.57464	0.24676	3.08215	0.25317	3.50454	5.94E-03	5.79E-07	6.32E-06	5.94E-07	6.90E-06	5.9588E-03
520315.52	4258143.05	34270.54781	0.19015	0.77769	0.19933	0.84307	5.94E-03	4.46E-07	1.59E-06	4.68E-07	1.66E-06	5.9482E-03
519967.12	4258755.49	34268.68906	0.85556	0.69275	0.9797	0.65548	5.94E-03	2.01E-06	1.42E-06	2.30E-06	1.29E-06	5.9508E-03
519965.26	4258823.34	34261.05871	0.96936	0.50834	1.09827	0.49125	5.94E-03	2.28E-06	1.04E-06	2.58E-06	9.67E-07	5.9493E-03
520442.83	4258123.45	34257.20785	0.16252	0.37085	0.16649	0.39129	5.94E-03	3.82E-07	7.61E-07	3.91E-07	7.70E-07	5.9441E-03
520577.15	4258291.09	34208.79956	0.14846	0.19222	0.14786	0.20082	5.93E-03	3.49E-07	3.94E-07	3.47E-07	3.95E-07	5.9348E-03
520276.3	4258162.93	34205.82558	0.20152	1.03303	0.21299	1.12969	5.93E-03	4.73E-07	2.12E-06	5.00E-07	2.22E-06	5.9382E-03
520550.82	4258888.38	34200.62453	0.21771	0.12457	0.20963	0.13016	5.93E-03	5.11E-07	2.55E-07	4.92E-07	2.56E-07	5.9335E-03
520562.88	4258863.37	34192.35613	0.20635	0.12547	0.1987	0.13083	5.93E-03	4.84E-07	2.57E-07	4.66E-07	2.58E-07	5.9320E-03
520029.6	4258550.48	34145.60819	0.80449	3.79827	0.97158	3.09311	5.92E-03	1.89E-06	7.79E-06	2.28E-06	6.09E-06	5.9404E-03
520307.63	4258212.72	34143.93513	0.22581	1.91803	0.23509	2.14055	5.92E-03	5.30E-07	3.93E-06	5.52E-07	4.21E-06	5.9313E-03
520505.24	4258150.16	34137.76433	0.154	0.26818	0.15769	0.2837	5.92E-03	3.62E-07	5.50E-07	3.70E-07	5.58E-07	5.9229E-03
519986.36	4258928.32	34133.56662	1.48307	0.35318	1.70185	0.3481	5.92E-03	3.48E-06	7.24E-07	4.00E-06	6.85E-07	5.9292E-03
520523.6	4258168.03	34110.39649	0.15178	0.24532	0.1547	0.25956	5.92E-03	3.56E-07	5.03E-07	3.63E-07	5.11E-07	5.9180E-03
520592.46	4258785.34	34095.4183	0.17915	0.13079	0.17229	0.13559	5.91E-03	4.21E-07	2.68E-07	4.04E-07	2.67E-07	5.9151E-03
520374.31	4258123.24	34035.77436	0.17474	0.53999	0.18013	0.57638	5.90E-03	4.10E-07	1.11E-06	4.23E-07	1.13E-06	5.9064E-03
520530.51	4258926.8	34034.01388	0.23811	0.12352	0.22871	0.12929	5.90E-03	5.59E-07	2.53E-07	5.37E-07	2.55E-07	5.9046E-03
520158.53	4258262.56	34028.75283	0.25192	3.5568	0.25786	4.06928	5.90E-03	5.91E-07	7.29E-06	6.05E-07	8.01E-06	5.9180E-03
520575.9	4258280.54	34025.79737	0.14778	0.194	0.14706	0.20257	5.90E-03	3.47E-07	3.98E-07	3.45E-07	3.99E-07	5.9031E-03
520581.53	4258312.99	33996.86927	0.14914	0.18688	0.14863	0.19575	5.90E-03	3.50E-07	3.83E-07	3.49E-07	3.85E-07	5.8981E-03
520474.1	4259010.2	33992.77608	0.30789	0.12386	0.29467	0.12992	5.90E-03	7.23E-07	2.54E-07	6.92E-07	2.56E-07	5.8978E-03
519971.62	4258718.12	33955.11386	0.81729	0.8406	0.93885	0.78869	5.89E-03	1.92E-06	1.72E-06	2.20E-06	1.55E-06	5.8968E-03
520558.45	425822?.	33946.72451	0.14772	0.20965	0.14767	0.22055	5.89E-03	3.47E-07	4.30E-07	3.47E-07	4.34E-07	5.8895E-03
520335.13	4258133.12	33942.76126	0.18392	0.68442	0.19177	0.73812	5.89E-03	4.32E-07	1.40E-06	4.50E-07	1.45E-06	5.8910E-03
520580.35	4258302.47	33935.39188	0.14848	0.18882	0.14798	0.19749	5.89E-03	3.49E-07	3.87E-07	3.47E-07	3.89E-07	5.8874E-03
520604.05	4258709.78	33925.00415	0.16575	0.13801	0.15927	0.14361	5.88E-03	3.89E-07	2.83E-07	3.74E-07	2.83E-07	5.8855E-03
519968.64	4258735.05	33906.92706	0.82638	0.96512	0.94532	0.72085	5.88E-03	1.94E-06	1.57E-06	2.22E-06	1.42E-06	5.8881E-03
520585.36	4258369.19	33869.98038	0.15308	0.17871	0.15111	0.18786	5.87E-03	3.59E-07	3.67E-07	3.55E-07	3.70E-07	5.8760E-03
520217.45	4258202.75	33867.98077	0.22054	1.73453	0.23049	1.92751	5.87E-03	5.18E-07	3.56E-06	5.41E-07	3.79E-06	5.8827E-03
520595.99	4258776.9	33816.15415	0.17621	0.13107	0.16941	0.13586	5.87E-03	4.14E-07	2.69E-07	3.98E-07	2.67E-07	5.8666E-03
520256.69	4258172.87	33805.59689	0.2063	1.21128	0.21798	1.3301	5.86E-03	4.84E-07	2.48E-06	5.12E-07	2.62E-06	5.8695E-03
520364.52	4258123.21	33802.63428	0.17634	0.57188	0.18225	0.61226	5.86E-03	4.14E-07	1.17E-06	4.28E-07	1.21E-06	5.8661E-03
520603.46	4258735.12	33782.45153	0.16819	0.13467	0.16157	0.14006	5.86E-03	3.95E-07	2.76E-07	3.79E-07	2.76E-07	5.8607E-03
520538.7	4258184.51	33781.18872	0.14947	0.22893	0.15152	0.24191	5.86E-03	3.51E-07	4.70E-07	3.56E-07	4.76E-07	5.8608E-03
520539.94	4258912.89	33779.60874	0.22862	0.12326	0.21985	0.12896	5.86E-03	5.37E-07	2.53E-07	5.16E-07	2.54E-07	5.8605E-03
520014.13	4258989.75	33778.83036	2.4537	0.30224	2.96556	0.29775	5.86E-03	5.76E-06	6.20E-07	6.96E-06	5.86E-07	5.8727E-03
519964.19	4258772.54	33769.01993	0.8588	0.63287	0.97715	0.60201	5.86E-03	2.02E-06	1.30E-06	2.66E-06	1.19E-06	5.8639E-03
520062.83	4258443.35	33768.29501	0.46183	18.04345	0.50472	9.2422	5.86E-03	1.08E-06	3.70E-05	1.18E-06	1.82E-05	5.9144E-03
520574.77	4258270.04	33763.46233	0.14706	0.19556	0.14624	0.20418	5.86E-03	3.45E-07	4.01E-07	3.43E-07	4.02E-07	5.8576E-03
520514.16	4258153.98	33754.57384	0.15226	0.2568	0.15566	0.27171	5.85E-03	3.57E-07	5.27E-07	3.65E-07	5.35E-07	5.8564E-03
520507.25	4258966.46	33749.66877	0.26417	0.12322	0.25319	0.12896	5.85E-03	6.20E-07	2.53E-07	5.94E

520403.71	4258113.33	33238.16089	0.16678	0.45861	0.17102	0.48619	5.77E-03	3.92E-07	9.41E-07	4.02E-07	9.57E-07	5.7677E-03
520433.08	4258113.42	33225.68413	0.16172	0.39159	0.16546	0.41331	5.76E-03	3.80E-07	8.03E-07	3.88E-07	8.14E-07	5.7652E-03
520568.33	4258237.24	33196.56255	0.14584	0.20172	0.14524	0.21137	5.76E-03	3.42E-07	4.14E-07	3.41E-07	4.16E-07	5.7593E-03
520138.89	4258282.5	33154.37817	0.26193	0.46207	0.26787	5.76707	5.75E-03	6.15E-07	1.02E-05	6.29E-07	1.14E-05	5.7732E-03
520504.87	4258139.99	33148.70165	0.15219	0.26995	0.156	0.28519	5.75E-03	3.57E-07	5.54E-07	3.66E-07	5.61E-07	5.7513E-03
520237.09	4258182.81	33142.34965	0.21022	1.43995	0.22105	1.58863	5.75E-03	4.94E-07	2.95E-06	5.19E-07	3.13E-06	5.7555E-03
519989.33	4258949.53	33135.8498	1.57406	0.32965	1.81347	0.32545	5.75E-03	3.70E-06	6.76E-07	4.26E-06	6.41E-07	5.7565E-03
520482.84	4259006.58	33127.4013	0.2957	0.1224	0.28336	0.12822	5.75E-03	6.94E-07	2.51E-07	6.65E-07	2.52E-07	5.7477E-03
520607.02	4258726.61	33120.50022	0.1655	0.13456	0.15905	0.13999	5.74E-03	3.89E-07	2.76E-07	3.73E-07	2.76E-07	5.7459E-03
520393.92	4258113.3	33098.82539	0.16832	0.48419	0.17294	0.51423	5.74E-03	3.95E-07	9.93E-07	4.06E-07	1.01E-06	5.7436E-03
520603.05	4258760.03	33090.22545	0.17053	0.13126	0.16387	0.13618	5.74E-03	4.00E-07	2.69E-07	3.85E-07	2.68E-07	5.7407E-03
520572.79	4258249.17	33083.33663	0.14555	0.19801	0.14473	0.20704	5.74E-03	3.42E-07	4.06E-07	3.40E-07	4.08E-07	5.7396E-03
519961.14	4258788.3	33078.23198	0.85658	0.58024	0.96832	0.5548	5.74E-03	2.01E-06	1.19E-06	2.27E-06	1.09E-06	5.7438E-03
519972.87	4258902.77	33068.49957	1.19487	0.37707	1.35028	0.3705	5.74E-03	2.81E-06	7.73E-07	3.17E-06	7.29E-07	5.7431E-03
520442.86	4258113.45	33067.26202	0.15987	0.37206	0.16365	0.39225	5.74E-03	3.75E-07	7.63E-07	3.84E-07	7.72E-07	5.7377E-03
520607.64	4258701.19	33051.19666	0.16313	0.13811	0.15684	0.14356	5.73E-03	3.83E-07	2.83E-07	3.68E-07	2.83E-07	5.7339E-03
520344.95	4258123.15	33034.57235	0.1789	0.64464	0.18623	0.69343	5.73E-03	4.20E-07	1.32E-06	4.37E-07	1.37E-06	5.7332E-03
520019.69	4258569.92	33028.88897	0.80331	2.84712	0.98169	2.41052	5.73E-03	1.89E-06	5.84E-06	2.30E-06	4.75E-06	5.7435E-03
520581.18	4258461.69	33026.14329	0.162	0.17331	0.15835	0.18218	5.73E-03	3.80E-07	3.55E-07	3.72E-07	3.59E-07	5.7297E-03
520588.66	4258377.86	33009.68514	0.15248	0.17592	0.1502	0.18479	5.73E-03	3.58E-07	3.61E-07	3.53E-07	3.64E-07	5.7268E-03
520063.93	4258432.91	33001.85004	0.43209	19.86185	0.47051	9.65784	5.72E-03	1.01E-06	4.07E-05	1.10E-06	1.90E-05	5.7859E-03
520049.4	4258501.91	32999.41635	0.66306	7.82166	0.74933	5.64922	5.72E-03	1.56E-06	1.60E-05	1.76E-06	1.11E-05	5.7541E-03
520547.42	4258188.24	32982.101	0.1472	0.22062	0.14883	0.23287	5.72E-03	3.46E-07	4.52E-07	3.49E-07	4.58E-07	5.7222E-03
520099.55	4258342.38	32945.5858	0.30696	14.25294	0.32149	15.95838	5.71E-03	7.21E-07	2.92E-05	7.55E-07	3.14E-05	5.7764E-03
519975.54	4258913.86	32943.15602	1.25224	0.36398	1.41802	0.35814	5.71E-03	2.94E-06	7.46E-07	3.33E-06	7.05E-07	5.7216E-03
520559.46	4258884.8	32936.57666	0.21038	0.12268	0.20277	0.12805	5.71E-03	4.94E-07	4.76E-07	2.52E-07	2.52E-07	5.7142E-03
520538.96	4258923.31	32922.6255	0.23	0.12165	0.22115	0.12727	5.71E-03	5.40E-07	2.49E-07	5.19E-07	2.51E-07	5.7118E-03
519965.56	4258872.3	32913.50494	1.04575	0.41632	1.17678	0.40699	5.71E-03	2.46E-06	8.54E-07	2.76E-06	8.01E-07	5.7156E-03
520384.13	4258113.27	32901.62792	0.16979	0.51769	0.17491	0.54451	5.71E-03	3.99E-07	1.05E-06	4.11E-07	1.07E-06	5.7096E-03
520574.77	4258851.53	32896.689	0.19655	0.12405	0.18936	0.12913	5.71E-03	4.61E-07	2.54E-07	4.45E-07	2.54E-07	5.7072E-03
520473.6	4259020.41	32890.61152	0.30888	0.12178	0.29578	0.12782	5.70E-03	7.25E-07	2.50E-07	6.94E-07	2.52E-07	5.7066E-03
519961.27	4258837.83	32881.34844	0.93991	0.47254	1.05885	0.45815	5.70E-03	2.21E-06	9.69E-07	2.49E-06	9.02E-07	5.7097E-03
520092.5	4259085.69	32860.31542	13.99496	0.2623	13.16474	0.2464	5.70E-03	3.29E-05	5.38E-07	3.09E-05	4.85E-07	5.7643E-03
520581.78	4258834.8	32854.27931	0.19034	0.12517	0.18343	0.13011	5.70E-03	4.47E-07	2.57E-07	4.31E-07	2.56E-07	5.6998E-03
520588.23	4258402.59	32851.08815	0.15465	0.17444	0.15194	0.18296	5.70E-03	3.63E-07	3.58E-07	3.57E-07	3.60E-07	5.6993E-03
520513.73	4258143.78	32844.6106	0.15061	0.25844	0.15415	0.27316	5.70E-03	3.54E-07	5.30E-07	3.62E-07	5.38E-07	5.6985E-03
520589.45	4258354.05	32826.55231	0.1501	0.17728	0.14849	0.18639	5.69E-03	3.52E-07	3.64E-07	3.49E-07	3.67E-07	5.6950E-03
520295.94	4258142.99	32823.42032	0.19104	0.89476	0.20163	0.97308	5.69E-03	4.49E-07	1.84E-06	4.73E-07	1.92E-06	5.6977E-03
520585.28	4258826.43	32793.13729	0.1873	0.12562	0.18047	0.1305	5.69E-03	4.40E-07	2.58E-07	4.24E-07	2.57E-07	5.6892E-03
520541.55	4258175.72	32778.14398	0.14748	0.22659	0.14964	0.23941	5.69E-03	3.46E-07	4.65E-07	3.51E-07	4.71E-07	5.6869E-03
520315.55	4258133.05	32774.58458	0.18559	0.78025	0.19503	0.84475	5.68E-03	4.36E-07	1.60E-06	4.58E-07	1.66E-06	5.6888E-03
520005.1	4258986.02	32754.29659	2.07543	0.30062	2.45611	0.29681	5.68E-03	4.87E-06	6.17E-07	5.77E-06	5.84E-07	5.6929E-03
520567.36	4258226.81	32754.21223	0.14508	0.20272	0.14474	0.21271	5.68E-03	3.41E-07	4.16E-07	3.40E-07	4.19E-07	5.6826E-03
520374.34	4258113.24	32741.87632	0.17141	0.54119	0.17698	0.5777	5.68E-03	4.02E-07	1.11E-06	4.15E-07	1.14E-06	5.6820E-03
519977.12	4258683.15	32741.09058	0.77385	1.02154	0.89796	0.94941	5.68E-03	1.82E-06	2.10E-06	2.11E-06	1.87E-06	5.6867E-03
520058.1	4258461.19	32738.39523	0.50816	12.63619	0.55853	7.66387	5.68E-03	1.19E-06	2.59E-05	1.31E-06	1.51E-05	5.7218E-03
520506.54	4258976.76	32731.79435	0.26534	0.1215	0.25437	0.12711	5.68E-03	6.23E-07	2.49E-07	5.97E-07	2.50E-07	5.6789E-03
520531.99	4258161.61	32713.23906	0.14839	0.23682	0.15117	0.25038	5.67E-03	3.48E-07	4.86E-07	3.55E-07	4.93E-07	5.6756E-03
520246.91	4258172.84	32709.68868	0.20519	1.32046	0.21624	1.45226	5.67E-03	4.82E-07	2.71E-06	5.08E-07	2.86E-06	5.6799E-03
520556.85	4258202.29	32695.71133	0.1458	0.21194	0.14665	0.2232	5.67E-03	3.42E-07	4.35E-07	3.44E-07	4.39E-07	5.6725E-03
520497.39	4258990.55	32694.07824	0.27965	0.12152	0.26513	0.12715	5.67E-03	6.49E-07	2.49E-07	6.22E-07	2.50E-07	5.6724E-03
520276.33	4258152.93	32687.27995	0.19611	1.03649	0.20731	1.1326	5.67E-03	4.60E-07	2.13E-06	4.87E-07	2.23E-06	5.6748E-03
520188.02	4258222.66	32663.1605	0.22759	2.39755	0.23421	2.69893	5.67E-03	5.34E-07	4.92E-06	5.50E-07	5.31E-06	5.6766E-03
520515.86	4258962.89	32653.16147	0.25442	0.12132	0.24405	0.12693	5.66E-03	5.97E-07	2.49E-07	5.73E-07	2.50E-07	5.6652E-03
520588.78	4258818.06	32643.84059	0.18422	0.12587	0.17741	0.13071	5.66E-03	4.32E-07	2.58E-07	4.17E-07	2.57E-07	5.6633E-03
520606.58	4258751.6	32638.75295	0.16779	0.13125	0.16124	0.13627	5.66E-03	3.94E-07	2.69E-07	3.79E-07	2.68E-07	5.6624E-03
520548.45	4258909.37	32629.56327	0.22089	0.12142	0.21266	0.12694	5.66E-03	5.19E-07	2.49E-07	4.99E-07	2.50E-07	5.6610E-03
520178.2	4258232.63	32626.78059	0.23236	2.70823	0.23826	3.06413	5.66E-03	5.46E-07	5.55E-06	5.59E-07	6.03E-06	5.6717E-03
519977.29	4258924.58	32609.04867	1.2946	0.35141	1.46809	0.34617	5.66E-03	3.04E-06	7.21E-07	3.45E-06	6.81E-07	5.6638E-03
520197.84	4258212.69	32589.05939	0.22276	2.14049	0.23019	2.39715	5.65E-03	5.23E-07	4.39E-06	5.40E-07	4.72E-06	5.6626E-03
520525.35	4258948.96	32559.66817	0.24404	0.12106	0.23432	0.12667	5.65E-03	5.73E-07	2.48E-07	5.50E-07	2.49E-07	5.6489E-03
519990.66	4258960.07	32552.76768	1.61672	0.31875	1.86574	0.3149	5.65E-03	3.80E-06	6.54E-07	4.38E-06	6.20E-07	5.6556E-03
520335.16	4258123.12	32545.83285	0.1799	0.68629	0.18802	0.73972	5.64E-03	4.22E-07	1.41E-06	4.41E-07	1.46E-06	5.6487E-03
520053.74	4259053.64	32542.44544	7.08229	0.26904	11.85116	0.25957	5.64E-03	1.66E-05	5.52E-07	2.78E-05	5.11E-07	5.6899E-03
520586.13	4258294.93	32511.30218	0.14565	0.18537	0.14504	0.19371	5.64E-03	3.42E-07	3.80E-07	3.41E-07	3.81E-07	5.6404E-03
520364.56	4258113.21	32494.73252	0.17287	0.57311	0.179	0.61356	5.64E-03	4.06E-07	1.18E-06	4.20E-07	1.21E-06	5.6393E-03
519963.37	4258746.45	32481.24864	0.79004	0.70647	0.89865	0.66762	5.63E-03	1.85E-06	1.45E-06	2.11E-06	1.31E-06	5.6405E-03
520168.38	4258242.6	32471.40524	0.23705	3.08983	0.2424	3.51282	5.63E-03	5.57E-07	6.34E-06	5.69E-07	6.91E-06	5.6464E-03
520129.07	4258292.47	32470.72519	0.26654	6.05791	0.27323	7.08338	5.63E-03	6.26E-07	1.24E-05	6.41E-07	1.39E-05	5.6595E-03
520043.82	4259043.65	32454.85322	5.08094	0.27154	7.11513	0.26374	5.63E-03	1.19E-05	5.57E-07	1.67E-05	5.19E-07	5.6589E-03
520109.4	4258322.41	32446.66255	0.28827	10.04247	0.29897	11.82327	5.63E-03	6.77E-07	2.06E-05	7.02E-07	2.33E-05	5.6730E-03
520522.58	4258147.57	32437.09263	0.14889	0.24786	0.15216	0.262	5.63E-03	3.50E-07	5.08E-07	3.57E-07	5.16E-07	5.6278E-03
520207.66	4258202.72	32433.04942	0.21793	1.92423	0.22614	2.14493	5.63E-03	5.12E-07	3.95E-06	5.31E-07	4.22E-06	5.6346E-03
520584.79	4258284.34	32428.20931	0.14504	0.18726	0.14434	0.19547	5.62E-03	3.41E-07	3.84E-07	3.39E-07	3.85E-07	5.6260E-03
520535.04	4258934.94	32397.85056	0.23408	0.12072	0.22499	0.1263	5.62E-03	5.50E-07	2.48E-07	5.28E-07	2.49E-07	5.6208E-03
520610.59	4258718.1	32371.18091	0.16285	0.13434	0.15654	0.13976	5.61E-03	3.82E-07	2.76E-07	3.68E-07	2.75E-07	5.6159E-03
520595.79	4258801.33	32356.25933	0.17832	0.12669	0.17166	0.13138	5.61E-03	4.19E-07	2.60E-07	4.03E-07	2.59E-07	5.6134E-03
519961.82	4258863.29	32351.42892	0.98312	0.42712	1.10382	0.41666	5.61E-03	2.31E-06	8.76E-07	2.59E-06	8.20E-07	5.6178E-03
519994.72	4258971.74	32324.60661	1.73404	0.30891	2.01348	0.3053	5.61E-03	4.07E-06	6.34E-07	4.73E-06	6.01E-07	5.6166E-03
520569.61	4258470.59	32305.87407	0.22118	0.12218	0.19439	0.12735	5.60E-03	4.73E-07	2.51E-07	4.56E-07	2.51E-07	5.6047E-03
520566.46	4258216.42	32265.69377	0.14427	0.20369	0.14428	0.21398	5.60E-03	3.39E-07	4.18E-07	3.39E-07	4.21E-07	5.5979E-03
519978.91	4258935.24	32264.74106	1.33665	0.33956	1.51855	0.33484	5.60E-03	3.14E-06	6.96E-07	3.57E-06	6.59E-07	5.6042E-03
520583.58	4258273.81	32264.55492	0.14438	0.18892	0.14357	0.19708	5.60E-03	3.39E-07	3.87E-07	3.37E-07	3.88E-07	5.5976E-03
519957.99	4258805.82	32255.06124	0.85013	0.53373	0.95462	0.51293	5.59E-03	2.00E-06	1.09E-06	2.24E-06	1.01E-06	5.6008E-03
520588.97	4258306.16	32252.37029	0.14577	0.18224	0.14515	0.19076	5.59E-03	3.42E-07	3.74E-07	3.41E-07	3.76E-07	5.5955E-03
520256.73	4258162.87	32241.22881	0.20026	1.21542	0.21139	1.33291	5.59E-03	4.70E-07	2.49E-06	4.96E-07	2.62E-06	5.5982E-03
520558.15	4258895.35	32231.56585	0.21202	0.12116	0.20436	0.12652	5.59E-03	4.98E-07	2.48E-07	4.80E-07	2.49E-07	5.5919E-03
520491.58	4259002.97	32226.13509	0.28424	0.12072	0.27244	0.12635	5.59E-03	6.67E-07	2.48E-07	6.40E-07	2.49E-07	5.5913E-03
520590.23	4258316.71	32224.54009	0.14636	0.18024	0.14563	0.18897	5.59E-03	3.44E-07	3.70E-07	3.42E-07	3.72E-07	5.5906E-03
520158.56	4258252.57	32223.71944	0.24172	3.56535	0.24668	4.07895	5.59E-03	5.67E-07	7.31E-06	5.79E-07	8.03E-06	5.6055E-03
520599.29	4258792.96	32221.33439	0.17552	0.12712	0.16893	0.13174	5.59E-03	4.12E-07	2.61E-07	3.97E-07	2.59E-07	5.5900E-03
520217.48	4258192.75	32215.15415	0.21315	1.73998	0.22205	1.93184	5.59E-03	5.00E-07	3.57E-06	5.21E-07	3.80E-06	5.5960E-03
519960.48	4258763.6	32194.06734	0.79502	0.64071	0.90144	0.61361	5.58E-03	1.87E-06	1.33E-06	2.12E-06	1.21E-06	5.5904E-03
520354.77	4258113.18	32140.77593	0.1741	0.60803	0.18093	0.65245	5.57E-03	4.09E-07	1.25E-06	4.25E-07	1.28E-06	5.5780E-03
520305.76	4258133.02	32128.48256	0.1861	0.83579	0.19617	0.90664	5.57E-03	4.37E-07	1.71E-06	4.61E-07	1.78E-06	5.5769E-03
520556.14	4258191.98	32126.732	0.1449	0.21283	0.1461	0.22434	5.57E-03	3.40E-07	4.36E-07	3.43E-07	4.42E-07	5.5738E-03
520591.96	4258386.53	32126.37063	0.15183	0.17333	0.14932	0.18188	5.57E-03	3.56E-07	3.55E-07	3.51E-07	3.58E-07	5.5736E-03
520610.12	4258743.17	32125.26936	0.16512	0.13119	0.15872	0.1363	5.57E-03	3.88E-07	2.69E-07	3.73E-07	2.68E-07	5.5733E-03
520611.24	4258602.6	32117.66086	0.16054	0.13808	0.15438	0.14336	5.57E-03	3.77E-07	2.83E-07	3.62E-07	2.82E-07	5.5720E-03
520540.9	4258165.43	32081.95113	0.14633	0.22769	0.14876	0.2406	5.56E-03	3.44E-07	4.67E-07	3.49E-07	4.74E-07	5.5661E-03
520482.29	4259016.82	32081.43552	0.29671	0.12041	0.28447	0.12618	5.56E-03	6.97E-07	2.47E-07	6.68E-07	2.48E-07	5.5662E-03
520286.15	4258142.96	32067.56982	0.19113	0.96322	0.20202	1.04961	5.56E-03	4.49E-07	1.98E-06	4.74E-07	2.07E-06	5.5669E-03
520582.48	4258263.33	32050.59516	0.1437	0.19032	0.1428	0.19856	5.56E-03	3.37E-07	3.90E-07	3.35E-07	3.91E-07	5.5605E-03
520592.92	4258363.18	32019.37044	0.14953	0.17438	0.14755	0.18324	5.55E-03	3.51E-07	3.58E-07	3.46E-07	3.61E-07	5.5550E-03
520009.77	4258588.36	32014.54136	0.78119	2.20028	0.95204	1.92767	5.55E-03	1.83E-06	4.51E-06	2.24E-06	3.79E-06	5.5652E-03
519957.49	4258828.73	32009.46943	0.88024	0.48485	0.98874	0.46868	5.55E-03	2.07E-06	9.94E-07	2.32E-06	9.23E-07	5.5582E-03
520550.53	4258179.56	32008.92671	0.14523	0.2181	0.14699	0.23022	5.55E-03	3.41E-07	4.47E-07	3.45E-07	4.53E-07	5.5534E-03
520082.6	4259085.7	31994.17233	14.69285	0.25847	22.56179	0.24438	5.55E-03	4.5E-05	5.30E-07	5.30E-05	4.81E-07	5.6377E-03
520602.8	4258784.59	31989.46305	0.17271	0.1274	0.16617	0.132	5.55E-03	4.05E-07	2.61E-07	3.90E-07	2.60E-07	5.5497E-03
520325.37	4258123.09	31972.43202	0.18062	0.73213	0.18956	0.79031	5.55E-03	4.24E-07	1.50E-06	4.45E-07	1.56E-06	5.5494E-03
520531.44	4258151.36	31937.51567	0.14704	0.23809	0.15003	0.2516	5.54E-03	3.45E-07	4.88E-07	3.52E-07	4.95E-07	5.5411E-03
520064.47	4258422.61	31935.28788	0.40487	21.21994	0.43947	9.91515	5.54E-03	9.51E-07	4.35E-05	1.03E-06	1.95E-05	5.6041E-03
519987.12	4258646.05	31929.97772	0.75698	1.30981	0.88771	1.20129	5.54E-03	1.78E-06	2.69E-06	2.08E-06	2.36E-06	5.5470E-03
520227.3	4258182.78	31928.9116	0.20839	1.58174	0.21789	1.74948	5.54E-03	4.89E-07	3.24E-06	5.12E-07	3.44E-06	5.5456E-03
520577.31	4258241.09	31915.76491	0.14319	0.19495	0.1424	0.20382	5.54E-03	3.36E-07	4.00E-07	3.34E-07	4.01E-07	5.5371E-03
519965.06	4258726.4	31899.80057	0.76094	0.77682	0.86586	0.73155	5.53E-03	1.79E-06	1.59E-06	2.03E-06	1.44E-06	5.5397E-03
520148.74	4258262.53	31855.61639	0.24629	4.17347	0.25114	4.80852	5.53E-03	5.78E-07	8.56E-06	5.90E-07	9.47E-06	5.5444E-03
520039.48	4258521.35	31854.61498	0.70501	0.52347	0.8131	0.44493	5.53E-03	1.66E-06	1.09E-06	1.91E-06	8.16E-06	5.5477E-03
520547.41	4258919.81	31843.13576	0.22228	0.11985	0.21397	0.12531	5.52E-03	5.22E-07	2.46E-07	5.02E-07	2.47E-07	5.5246E-03
519980.41	4258945.85	31838.57757	1.37607	0.32825	1.56584	0.32399	5.52E-03	3.23E-06	6.73E-07	3.68E-06	6.38E-07	5.5305E-03
520591.56	4258411.35	31829.52838	0.15389	0.17172	0.15101	0.18003	5.52E-03	3.61E-07	3.52E-07	3.55E-07	3.54E-07	5.5221E-03
520584.66	4258470.82	31814.54817	0.16088	0.17043	0.1569	0.17915	5.52E-03	3.78E-07	3.50E-07	3.68E-07	3.53E-07	5.5195E-03
520581.47	4258252.88	31767.8999	0.14297	0.19155	0.14207	0.19993	5.51E-03	3.36E-07	3.93E-07	3.34E-07	3.94E-07	5.5115E-03
520092.52	4259095.69	31764.86042	13.92233	0.25481	13.11874	0.23955	5.51E-03	3.27E-05	5.23E-07	3.08E-05	4.72E-07	5.5739E-03
520266.55	4258152.9	31762.23995	0.1955	1.1224	0.20655	1.22803	5.51E-03	4.59E-07	2.30E-06	4.85E-07	2.42E-06	5.5147E-03
519957.47	4258780.46	31747.74165	0.7977	0.59335	0.89795	0.56586	5.51E-03	1.87E-06	1.22E-06	2.11E-06	1.11E-06	5.5128E-03
520565.63	4258206.05	31740.88508	0.14341	0.20464	0.14382	0.21517	5.51E-03	3.37E-07	4.20E-07	3.38E-07	4.24E-07	5.5068E-03
520505.88	4258987.04	31739.74378	0.26639	0.11976	0.25545	0.12525	5.51E-03	6.25E-07	2.46E-07	6.00E-07	2.47E-07	5.5068E-03
520344.98	4258113.15	31715.66721	0.17514	0.64619	0.18273	0.69481	5.50E-03	4.11E-07	1.33E-06	4.29E-07	1.37E-06	5.5045E-03
520588.1	4258881.22	31712.53887	0.20338	0.12084	0.19621	0.126	5.50E-03	4.77E-07	2.48E-07	4.61E-07	2.48E-07	5.5018E-03
519958.09	4258854.28	31706.7313	0.92404	0.43815	1.03555	0.42636	5.50E-03	2.17E-06	8.99E-07	2.43E-06	8.39E-07	5.5057E-03
519996.06	4258982.29	31705.13852	1.78063	0.29923	2.07202	0.29581	5.50E-03	4.18E-06	6.14E-07	4.86E-06	5.82E-07	5.5094E-03
520515.09	4258973.22	31704.2651	0.25556	0.11968	0.2452	0.12516	5.50E-03	6.00E-07	2.45E-07	5.76E-07	2.46E-07	5.5006E-03
519968	4258709.38	31650.04219	0.74783	0.851	0.8549	0.79838	5.49E-03	1.76E-06	1.75E-06	2.01E-06	1.57E-06	5.4966E-03
520524.46	4258959.33	31646.80486	0.24526	0.1195	0.23551	0.12498	5.49E-03	5.76E-07	2.45E-07	5.53E-07	2.46E-07	5.4906E-03
520614.15	4258709.59	31621.31942	0.16033	0.13433	0.15419	0.13965	5.48E-03	3.76E-07	2.76E-07	3.62E-07	2.75E-07	5.4859E-03
520119.25	4258302.44	31619.70295	0.27075	7.6361	0.27879	8.93373	5.48E-03	6.36E-07	1.57E-05	6.55E-07	1.76E-05	5.5188E-03
520237.12	4258172.81	31583.94638	0.20366	1.44462	0.21364	1.59203	5.48E-03	4.78E-07	2.96E-06	5.02E-07	3.13E-06	5.4852E-03
520054.17	4259063.64	31582.28473	7.21075	0.26145	12.25302	0.25224	5.48E-03	1.69E-05	5.36E-07	2.88E-05	4.97E-07	5.5245E-03
520576.26	4258230.63	31562.40375	0.1425	0.19598	0.1419	0.20517	5.47E-03	3.35E-07	4.02E-07	3.33E-07	4.04E-07	5.4758E-03
520534.01	4258945.37	31515.63945	0.23537	0.1192	0.22623	0.12467	5.47E-03	5.53E-07	2.44E-07	5.31E-07	2.45E-07	5.4678E-03
520556.96	4258905.85	31512.34601	0.21353	0.11963	0.2058	0.12497	5.47E-03	5.01E-07	2.45E-07	4.83E-07	2.46E-07	5.4671E-03
519977.12	4258673.87	31495.96201	0.74121	1.06119	0.85902	0.98478	5.46E-03	1.74E-06	2.18E-06	2.02E-06	1.94E-06	5.4707E-03
520043.84	4259053.65	31481.61187	5.10533	0.26359	7.14471	0.25607	5.46E-03	1.20E-05	5.41E-07	1.68E-05	5.04E-07	5.4901E-03
520295.97	4258132.99	31427.93502	0.18629	0.89749	0.19681	0.97525	5.45E-03	4.37E-07	1.84E-06	4.62E-07	1.92E-06	5.4557E-03
520315.58	4258123.05	31419.84279	0.1813	0.78243	0.19087	0.84655	5.45E-03	4.26E-07	1.60E-06	4.48E-07	1.67E-06	5.4538E-03
519964.02	4258899.11	31416.81936	1.05613	0.37474	1.18381	0.36788	5.45E-03	2.48E-06	7.69E-07	2.78E-06	7.24E-07	5.4559E-03
520609.8	4258767.86	31387.2034	0.16728	0.1278	0.16089	0.13246	5.44E-03	3.93E-07	2.62E-07	3.78E-

519969.92	4258931.53	30860.23905	1.17707	0.33783	1.32387	0.33298	5.35E-03	2.76E-06	6.93E-07	3.11E-06	6.55E-07	5.3598E-03
520207.69	4258192.72	30856.11684	0.21047	1.92969	0.21768	2.14903	5.35E-03	4.94E-07	3.96E-06	5.11E-07	4.23E-06	5.3610E-03
520168.41	4258232.6	30832.86998	0.22799	3.09585	0.23237	3.52199	5.35E-03	5.35E-07	6.35E-06	5.46E-07	6.93E-06	5.3622E-03
520592.39	4258277.58	30824.58883	0.1418	0.18238	0.14096	0.19027	5.35E-03	3.33E-07	3.74E-07	3.31E-07	3.75E-07	5.3478E-03
520305.79	4258123.02	30811.33793	0.18169	0.83807	0.19175	0.90866	5.34E-03	4.27E-07	1.72E-06	4.50E-07	1.79E-06	5.3485E-03
520617.71	4258701.09	30801.21817	0.15785	0.13437	0.15188	0.13954	5.34E-03	3.71E-07	2.76E-07	3.57E-07	2.75E-07	5.3436E-03
520256.76	4258152.87	30797.56408	0.1945	1.21921	0.20499	1.33579	5.34E-03	4.57E-07	2.50E-06	4.81E-07	2.63E-06	5.3478E-03
520555.86	4258916.31	30793.62712	0.21491	0.1181	0.20711	0.12339	5.34E-03	5.05E-07	2.42E-07	4.86E-07	2.43E-07	5.3425E-03
520594.9	4258420.11	30788.66838	0.15308	0.16901	0.15004	0.17715	5.34E-03	3.59E-07	3.47E-07	3.52E-07	3.49E-07	5.3416E-03
520514.38	4258983.52	30776.1757	0.25658	0.11803	0.24623	0.12339	5.34E-03	6.02E-07	2.42E-07	5.78E-07	2.43E-07	5.3397E-03
520523.64	4258969.68	30760.06364	0.24638	0.11793	0.23663	0.12329	5.34E-03	5.78E-07	2.42E-07	5.56E-07	2.43E-07	5.3368E-03
520549.16	4258158.95	30749.78604	0.14312	0.22016	0.14543	0.23248	5.33E-03	3.36E-07	4.52E-07	3.41E-07	4.58E-07	5.3350E-03
520574.41	4258209.81	30748.08573	0.14102	0.19775	0.14102	0.20757	5.33E-03	3.31E-07	4.06E-07	3.31E-07	4.09E-07	5.3346E-03
520129.1	4258282.47	30738.19044	0.2549	6.07117	0.26074	7.10685	5.33E-03	5.98E-07	1.25E-05	6.12E-07	1.40E-05	5.3591E-03
520588.13	4258479.95	30737.68809	0.15972	0.16765	0.15539	0.17618	5.33E-03	3.75E-07	3.44E-07	3.65E-07	3.47E-07	5.3327E-03
520600.18	4258814.77	30732.76992	0.17666	0.12304	0.17029	0.12761	5.33E-03	4.15E-07	2.52E-07	4.00E-07	2.51E-07	5.3318E-03
520286.18	4258132.96	30695.77106	0.18621	0.96613	0.19687	1.0518	5.32E-03	4.37E-07	1.98E-06	4.62E-07	2.07E-06	5.3290E-03
520591.22	4258267.07	30693.47424	0.14117	0.1839	0.14023	0.19177	5.32E-03	3.31E-07	3.77E-07	3.29E-07	3.77E-07	5.3251E-03
520217.51	4258182.75	30679.15479	0.20611	1.74496	0.21402	1.93564	5.32E-03	4.84E-07	3.58E-06	5.02E-07	3.81E-06	5.3295E-03
520533.07	4258955.77	30673.40377	0.23659	0.1177	0.22742	0.12306	5.32E-03	5.55E-07	2.41E-07	5.34E-07	2.42E-07	5.3217E-03
520092.95	4259106.51	30670.84015	13.6661	0.24724	12.84313	0.23256	5.32E-03	3.21E-05	5.07E-07	3.02E-05	4.58E-07	5.3829E-03
520325.4	4258113.09	30666.78816	0.17655	0.73403	0.18567	0.7917	5.32E-03	4.14E-07	1.51E-06	4.36E-07	1.56E-06	5.3229E-03
520586.29	4258244.93	30654.73088	0.14063	0.1884	0.13968	0.19664	5.32E-03	3.30E-07	3.86E-07	3.28E-07	3.87E-07	5.3184E-03
519987.03	4258978.56	30637.52506	1.54638	0.29786	1.77303	0.29461	5.31E-03	3.63E-06	6.11E-07	4.16E-06	5.80E-07	5.3229E-03
520558.74	4258173.06	30619.89608	0.14201	0.21114	0.14367	0.22272	5.31E-03	3.33E-07	4.33E-07	3.37E-07	4.38E-07	5.3124E-03
520054.19	4259073.64	30617.15219	7.26964	0.25393	12.32973	0.24508	5.31E-03	1.71E-05	5.21E-07	2.89E-05	4.82E-07	5.3574E-03
519959.62	4258737.41	30612.00119	0.7284	0.71781	0.82353	0.67811	5.31E-03	1.71E-06	1.47E-06	1.93E-06	1.33E-06	5.3160E-03
520109.43	4258312.41	30608.24031	0.27444	10.07957	0.28436	11.60779	5.31E-03	6.44E-07	2.07E-05	6.68E-07	2.28E-05	5.3537E-03
520597.59	4258309.85	30596.69156	0.14309	0.17586	0.14229	0.18423	5.31E-03	3.36E-07	3.34E-07	3.61E-07	3.63E-07	5.3081E-03
520044.27	4259063.65	30585.63122	5.19516	0.25622	7.29918	0.24889	5.30E-03	1.22E-05	5.25E-07	1.71E-05	4.90E-07	5.3353E-03
520158.59	4258242.57	30565.13552	0.23218	3.57342	0.2363	4.08724	5.30E-03	5.45E-07	7.33E-06	5.55E-07	8.05E-06	5.3179E-03
520603.83	4258806.07	30552.04285	0.17371	0.1234	0.1674	0.1279	5.30E-03	4.08E-07	2.53E-07	3.93E-07	2.52E-07	5.3004E-03
519971.49	4258942.17	30535.43802	1.21249	0.32673	1.36552	0.32236	5.30E-03	2.85E-06	6.70E-07	3.21E-06	6.35E-07	5.3036E-03
519956.78	4258754.66	30535.33731	0.73503	0.65879	0.83063	0.62401	5.30E-03	1.73E-06	1.35E-06	1.95E-06	1.23E-06	5.3025E-03
519954.83	4258830.54	30524.50358	0.90651	0.40769	1.01069	0.39803	5.29E-03	2.13E-06	8.36E-07	2.37E-06	7.84E-07	5.3005E-03
520576.74	4258877.65	30523.4699	0.19672	0.11902	0.18992	0.12398	5.29E-03	4.62E-07	2.44E-07	4.46E-07	2.44E-07	5.2956E-03
520052.25	4258475.41	30515.15909	0.53939	9.10304	0.5953	6.26001	5.29E-03	1.27E-06	1.87E-05	1.40E-06	1.23E-05	5.3264E-03
520542.68	4258941.78	30503.6001	0.22714	0.11737	0.21855	0.1227	5.29E-03	5.33E-07	2.41E-07	5.13E-07	2.42E-07	5.2922E-03
520590.14	4258256.59	30502.96004	0.14051	0.18522	0.13951	0.19315	5.29E-03	3.30E-07	3.80E-07	3.28E-07	3.80E-07	5.2920E-03
520598.92	4258320.43	30472.73617	0.14355	0.17409	0.14261	0.18261	5.29E-03	3.37E-07	3.57E-07	3.35E-07	3.59E-07	5.2867E-03
520227.33	4258172.78	30442.84493	0.20176	1.58622	0.21031	1.75311	5.28E-03	4.74E-07	3.25E-06	4.94E-07	3.45E-06	5.2878E-03
520565.46	4258902.33	30430.93096	0.20651	0.11789	0.19926	0.12305	5.28E-03	4.85E-07	2.42E-07	4.68E-07	2.42E-07	5.2795E-03
520600.05	4258356.04	30418.15247	0.14617	0.17048	0.14424	0.17908	5.28E-03	3.43E-07	3.50E-07	3.39E-07	3.53E-07	5.2773E-03
520499.65	4259009.63	30417.18262	0.27439	0.11722	0.26322	0.12261	5.28E-03	6.44E-07	2.40E-07	6.18E-07	2.41E-07	5.2775E-03
520607.47	4258797.37	30415.33493	0.17092	0.12383	0.16468	0.12826	5.28E-03	4.01E-07	2.54E-07	3.87E-07	2.52E-07	5.2767E-03
520585.17	4258234.44	30382.81778	0.13998	0.18948	0.13915	0.19798	5.27E-03	3.29E-07	3.89E-07	3.27E-07	3.90E-07	5.2712E-03
520509.06	4258895.73	30360.36059	0.26283	0.11726	0.2522	0.12258	5.27E-03	6.17E-07	2.40E-07	5.92E-07	2.41E-07	5.2676E-03
519953.81	4258771.61	30337.46751	0.74219	0.60534	0.83205	0.57615	5.26E-03	1.74E-06	1.95E-06	1.95E-06	1.13E-06	5.2680E-03
520266.58	4258142.9	30326.54785	0.18996	1.12609	0.20056	1.22988	5.26E-03	4.46E-07	2.31E-06	4.71E-07	2.42E-06	5.2656E-03
520599.87	4258381.43	30326.09101	0.14824	0.16891	0.14568	0.17717	5.26E-03	3.48E-07	3.46E-07	3.42E-07	3.49E-07	5.2613E-03
520552.5	4258927.71	30318.18825	0.21814	0.11706	0.21013	0.12233	5.26E-03	5.12E-07	2.40E-07	4.93E-07	2.41E-07	5.2600E-03
520591.33	4258462.49	30315.10218	0.15729	0.16733	0.15347	0.17575	5.26E-03	3.69E-07	3.43E-07	3.60E-07	3.46E-07	5.2594E-03
520598.57	4258403.87	30297.38456	0.15041	0.16815	0.14753	0.1762	5.25E-03	3.53E-07	3.45E-07	3.46E-07	3.47E-07	5.2563E-03
520573.59	4258199.44	30296.99871	0.14024	0.19857	0.14061	0.20865	5.25E-03	3.29E-07	4.07E-07	3.30E-07	4.11E-07	5.2564E-03
520568.49	4258187.24	30283.54534	0.14058	0.20276	0.14151	0.21345	5.25E-03	3.30E-07	4.16E-07	3.32E-07	4.20E-07	5.2540E-03
520620.71	4258717.86	30251.49003	0.15754	0.13083	0.1516	0.13598	5.25E-03	3.70E-07	2.68E-07	3.56E-07	2.68E-07	5.2482E-03
520148.77	4258252.53	30222.6557	0.23636	4.18129	0.24039	4.82252	5.24E-03	5.55E-07	8.58E-06	5.64E-07	9.49E-06	5.2612E-03
519987.12	4258636.77	30218.75801	0.71727	1.35169	0.83822	1.23935	5.24E-03	1.68E-06	2.77E-06	1.97E-06	2.44E-06	5.2502E-03
519950.62	4258836.27	30170.00035	0.81552	0.46031	0.90954	0.44539	5.23E-03	1.91E-06	9.44E-07	2.14E-06	8.77E-07	5.2387E-03
519977.12	4258664.6	30164.16001	0.70839	1.09964	0.81929	1.01926	5.23E-03	1.66E-06	2.26E-06	1.92E-06	2.01E-06	5.2397E-03
520315.61	4258113.05	30155.39261	0.17715	0.78441	0.18677	0.84821	5.23E-03	4.16E-07	1.61E-06	4.38E-07	1.67E-06	5.2344E-03
520237.15	4258162.81	30148.99683	0.19744	1.44869	0.20653	1.59543	5.23E-03	4.64E-07	2.97E-06	4.85E-07	3.14E-06	5.2363E-03
519972.95	4258952.77	30148.38168	1.24635	0.31613	1.40542	0.31218	5.23E-03	2.93E-06	6.48E-07	3.30E-06	6.15E-07	5.2366E-03
520296	4258122.99	30137.57729	0.18174	0.89991	0.19209	0.97737	5.23E-03	4.27E-07	1.85E-06	4.51E-07	1.92E-06	5.2318E-03
520019.65	4258560.22	30132.39171	0.74116	2.91354	0.89039	2.46801	5.23E-03	1.74E-06	5.98E-06	2.09E-06	4.86E-06	5.2410E-03
520611.11	4258788.66	30106.58231	0.168	0.12399	0.16179	0.1284	5.22E-03	3.94E-07	2.54E-07	3.80E-07	2.53E-07	5.2231E-03
520620.31	4258742.75	30075.77263	0.15958	0.12775	0.15355	0.13267	5.22E-03	3.75E-07	2.62E-07	3.66E-07	2.61E-07	5.2178E-03
520584.14	4258223.98	30062.73988	0.13931	0.19044	0.13868	0.19922	5.21E-03	3.27E-07	3.91E-07	3.26E-07	3.92E-07	5.2157E-03
520558.02	4258162.74	30062.37317	0.14105	0.21205	0.14299	0.22377	5.21E-03	3.31E-07	4.35E-07	3.36E-07	4.40E-07	5.2157E-03
519949.95	4258810.54	30018.36199	0.77142	0.58345	0.85933	0.48876	5.21E-03	1.81E-06	1.04E-06	2.02E-06	9.62E-07	5.2124E-03
519976.51	4258964.23	30005.55781	1.31869	0.30637	1.49266	0.30281	5.20E-03	3.10E-06	6.28E-07	3.50E-06	5.96E-07	5.2122E-03
519989.93	4258628.23	29971.5234	0.71459	1.43795	0.83758	1.31416	5.20E-03	1.68E-06	2.95E-06	1.97E-06	2.59E-06	5.2076E-03
520575.29	4258888.25	29966.06145	0.19833	0.11762	0.19154	0.12259	5.20E-03	4.66E-07	2.41E-07	4.50E-07	2.41E-07	5.1989E-03
520119.28	4258292.44	29950.23357	0.25867	7.65376	0.26582	8.97114	5.19E-03	6.07E-07	1.57E-05	6.24E-07	1.77E-05	5.2293E-03
520621.27	4258692.58	29940.50118	0.15543	0.13437	0.14957	0.13937	5.19E-03	3.65E-07	2.76E-07	3.51E-07	2.74E-07	5.1943E-03
519951.13	4258861.61	29918.10723	0.85428	0.41773	0.95082	0.40681	5.19E-03	2.01E-06	8.57E-07	2.23E-06	8.01E-07	5.1951E-03
520083.05	4259106.53	29908.15166	16.4484	0.24371	21.66329	0.23068	5.19E-03	3.86E-05	5.00E-07	5.09E-05	4.54E-07	5.2779E-03
520522.88	4258980	29890.10105	0.24738	0.11636	0.23763	0.1216	5.18E-03	5.81E-07	2.39E-07	5.58E-07	2.39E-07	5.1859E-03
519950.72	4258788.29	29885.57995	0.742	0.55807	0.82879	0.53323	5.18E-03	1.74E-06	1.14E-06	1.95E-06	1.05E-06	5.1894E-03
520276.4	4258132.93	29885.52907	0.18568	1.04297	0.19619	1.13684	5.18E-03	4.36E-07	2.14E-06	4.61E-07	2.24E-06	5.1888E-03
520614.76	4258779.96	29877.46678	0.16532	0.12425	0.15916	0.12867	5.18E-03	3.88E-07	2.55E-07	3.74E-07	2.53E-07	5.1834E-03
520532.19	4258966.14	29850.63075	0.2377	0.11621	0.22852	0.12146	5.18E-03	5.58E-07	2.38E-07	5.36E-07	2.39E-07	5.1790E-03
519961.47	4258717.75	29841.8968	0.69994	0.78579	0.79206	0.7401	5.18E-03	1.64E-06	1.61E-06	1.86E-06	1.46E-06	5.1825E-03
520246.97	4258152.84	29818.0898	0.19318	1.32843	0.20268	1.45842	5.17E-03	4.54E-07	2.72E-06	4.76E-07	2.87E-06	5.1783E-03
520567.65	4258176.87	29799.73794	0.13976	0.20367	0.14104	0.21457	5.17E-03	3.28E-07	4.18E-07	3.31E-07	4.22E-07	5.1701E-03
520564.31	4258912.81	29772.73555	0.20788	0.11641	0.20056	0.12153	5.16E-03	4.88E-07	2.39E-07	4.71E-07	2.39E-07	5.1654E-03
519957.25	4258906.31	29764.15638	0.97511	0.35929	1.08573	0.35302	5.16E-03	2.29E-06	7.37E-07	2.55E-06	6.95E-07	5.1687E-03
520138.95	4258262.5	29751.17817	0.24035	4.98416	0.2447	5.7949	5.16E-03	5.64E-07	1.02E-05	5.74E-07	1.14E-05	5.1830E-03
520598.23	4258428.87	29741.27097	0.15223	0.16637	0.14903	0.17438	5.16E-03	3.57E-07	3.41E-07	3.50E-07	3.43E-07	5.1602E-03
520583.19	4258213.56	29716.0298	0.13862	0.19127	0.13827	0.20036	5.15E-03	3.25E-07	3.92E-07	3.25E-07	3.94E-07	5.1555E-03
520541.67	4258952.2	29694.63264	0.22826	0.1159	0.21964	0.12113	5.15E-03	5.36E-07	2.38E-07	5.16E-07	2.38E-07	5.1519E-03
520044.28	4259073.65	29679.73824	5.23124	0.24893	7.32551	0.24186	5.15E-03	1.23E-05	5.11E-07	1.72E-05	4.76E-07	5.1783E-03
520092.96	4259116.51	29678.54192	13.58657	0.24045	12.80452	0.22633	5.15E-03	3.19E-05	4.93E-07	3.01E-05	4.46E-07	5.2105E-03
519959.16	4258917.1	29659.89015	0.10005	0.34735	1.12566	0.34178	5.14E-03	2.37E-06	7.12E-07	2.64E-06	6.73E-07	5.1508E-03
520603.49	4258365.06	29653.60479	0.14558	0.16758	0.1433	0.17595	5.14E-03	3.42E-07	3.44E-07	3.36E-07	3.46E-07	5.1447E-03
520603.8	4258340	29614.43984	0.14345	0.16943	0.14192	0.17794	5.14E-03	3.37E-07	3.47E-07	3.33E-07	3.50E-07	5.1379E-03
520618.4	4258771.26	29596.68579	0.16269	0.12441	0.1566	0.12888	5.13E-03	3.82E-07	2.55E-07	3.68E-07	2.54E-07	5.1347E-03
520305.82	4258113.02	29563.1387	0.17739	0.84021	0.18738	0.91035	5.13E-03	4.16E-07	1.72E-06	4.40E-07	1.79E-06	5.1320E-03
519977.99	4258974.83	29555.105	1.35489	0.29677	1.53587	0.29352	5.13E-03	3.18E-06	6.09E-07	3.61E-06	5.78E-07	5.1342E-03
520551.34	4258938.19	29543.76146	0.21937	0.11561	0.21131	0.12081	5.12E-03	5.15E-07	2.37E-07	4.96E-07	2.38E-07	5.1257E-03
520623.82	4258734.39	29531.60268	0.15715	0.12764	0.15127	0.13261	5.12E-03	3.69E-07	2.62E-07	3.55E-07	2.61E-07	5.1234E-03
520065.62	4258402.25	29530.95626	0.35818	23.24203	0.38646	10.34739	5.12E-03	8.41E-07	4.77E-05	9.07E-07	2.04E-05	5.1918E-03
520624.24	4258709.43	29502.75622	0.15513	0.1307	0.14932	0.13577	5.12E-03	3.64E-07	2.68E-07	3.51E-07	2.67E-07	5.1184E-03
520508.34	4259006.03	29497.6433	0.2639	0.1156	0.2533	0.12083	5.12E-03	6.20E-07	2.37E-07	5.95E-07	2.38E-07	5.1179E-03
520188.08	4258202.66	29492.04914	0.21142	2.41065	0.21623	2.7072	5.12E-03	4.96E-07	4.94E-06	5.08E-07	5.33E-06	5.1265E-03
520099.61	4258322.38	29483.01474	0.27754	14.34204	0.2896	15.74337	5.11E-03	6.52E-07	2.94E-05	6.80E-07	3.10E-05	5.1754E-03
520197.9	4258192.69	29481.31525	0.20742	2.15197	0.21294	2.40538	5.11E-03	4.87E-07	4.41E-06	5.00E-07	4.73E-06	5.1235E-03
519960.94	4258927.82	29479.74552	1.04359	0.33595	1.16411	0.33097	5.11E-03	2.45E-06	6.89E-07	2.73E-06	6.52E-07	5.1197E-03
520517.8	4258992.11	29460.68813	0.25295	0.11558	0.24291	0.12077	5.11E-03	5.94E-07	2.37E-07	5.70E-07	2.38E-07	5.1115E-03
520603.35	4258390.56	29449.06011	0.14752	0.16631	0.14476	0.17428	5.11E-03	3.46E-07	3.41E-07	3.40E-07	3.43E-07	5.1092E-03
520178.26	4258212.63	29448.61668	0.21547	2.72122	0.21958	3.07519	5.11E-03	5.06E-07	5.58E-06	5.16E-07	6.05E-06	5.1204E-03
520009.73	4258579.66	29423.37035	0.72809	1.26632	0.88089	1.97516	5.10E-03	1.71E-06	4.65E-06	2.07E-06	3.89E-06	5.1157E-03
520256.79	4258142.87	29420.22081	0.18888	1.22288	0.19873	1.33782	5.10E-03	4.43E-07	2.51E-06	4.67E-07	2.63E-06	5.1089E-03
520595.26	4258248.77	29419.45348	0.13814	0.18202	0.13705	0.18978	5.10E-03	3.24E-07	3.73E-07	3.22E-07	3.74E-07	5.1041E-03
520286.22	4258122.96	29417.13699	0.18147	0.96868	0.19181	1.05373	5.10E-03	4.26E-07	1.99E-06	4.50E-07	2.07E-06	5.1072E-03
520207.72	4258182.72	29401.4435	0.20342	1.93439	0.20968	2.15295	5.10E-03	4.78E-07	3.97E-06	4.92E-07	4.24E-06	5.1087E-03
520588.99	4258865.44	29397.64856	0.18737	0.11776	0.18105	0.12246	5.10E-03	4.40E-07	2.42E-07	4.25E-07	2.41E-07	5.1002E-03
520052.9	4259085.75	29383.67035	6.97461	0.27471	11.40432	0.23647	5.10E-03	1.64E-05	5.02E-07	2.68E-05	4.65E-07	5.1406E-03
520592.6	4258856.82	29383.4287	0.18445	0.11816	0.17817	0.1228	5.10E-03	4.33E-07	2.42E-07	4.18E-07	2.42E-07	5.0978E-03
520573.97	4258898.8	29378.97059	0.19981	0.11619	0.19298	0.12116	5.10E-03	4.69E-07	2.38E-07	4.53E-07	2.39E-07	5.0970E-03
520601.21	4258281.36	29370.46162	0.13921	0.17611	0.13836	0.18376	5.09E-03	3.27E-07	3.61E-07	3.25E-07	3.62E-07	5.0955E-03
520601.87	4258412.54	29358.62034	0.14964	0.16561	0.1466	0.17348	5.09E-03	3.51E-07	3.40E-07	3.44E-07	3.41E-07	5.0935E-03
520577.46	4258191.09	29357.795	0.13822	0.1958	0.13875	0.20575	5.09E-03	3.24E-07	4.02E-07	3.26E-07	4.05E-07	5.0934E-03
520596.21	4258848.19	29355.35933	0.18155	0.11851	0.17529	0.12311	5.09E-03	4.26E-07	2.43E-07	4.12E-07	2.42E-07	5.0929E-03
520602.58	4258291.96	29350.57298	0.13973	0.17427	0.13892	0.18209	5.09E-03	3.28E-07	3.57E-07	3.26E-07	3.58E-07	5.0922E-03
519951.5	4258886.61	29347.9946	0.88734	0.38086	0.98587	0.37282	5.09E-03	2.08E-06	7.81E-07	2.31E-06	7.34E-07	5.0962E-03
519964.37	4258700.63	29347.31749	0.68451	0.85785	0.77825	0.80535	5.09E-03	1.61E-06	1.76E-06	1.83E-06	1.59E-06	5.0969E-03
520582.31	4258203.17	29340.82602	0.13791	0.19205	0.13789	0.20143	5.09E-03	3.24E-07	3.94E-07	3.24E-07	3.97E-07	5.0905E-03
520561.23	4258924.1	29339.01898	0.21076	0.11532	0.20325	0.12043	5.09E-03	4.95E-07	2.37E-07	4.77E-07	2.37E-07	5.0902E-03
520599.96	4258270.81	29329.30853	0.13866	0.1777	0.1377	0.18526	5.09E-03	3.26E-07	3.64E-07	3.23E-07	3.65E-07	5.0884E-03
520599.83	4258839.56	29306.02753	0.17867	0.11904	0.17253	0.12357	5.08E-03	4.19E-07	2.44E-07	4.05E-07	2.43E-07	5.0843E-03
520566.87	4258166.53	29300.67302	0.13889	0.20458	0.14049	0.21563	5.08E-03	3.26E-07	4.20E-07	3.30E-07	4.24E-07	5.0836E-03
520168.44	4258222.6	29294.07765	0.2194	3.10316	0.22303	3.52711	5.08E-03	5.15E-07	6.36E-06	5.24E-07	6.94E-06	5.0953E-03
519946.88	4258827.26	29284.18096	0.76567	0.47115	0.85116	0.45447	5.08E-03	1.80E-06	9.66E-07	2.00E-06	8.95E-07	5.0849E-03
520594.75	4258471.48	29260.49266	0.1562	0.1647	0.15207	0.17297	5.08E-03	3.67E-07	3.38E-07	3.57E-07	3.40E-07	5.0765E-03
520217.54	4258172.75	29252.7208	0.19941	1.74942	0.20639	1.93903	5.07E-03	4.68E-07	3.59E-06	4.85E-07	3.82E-06	5.0821E-03
520604.08	4258302.61	29246.65554	0.14019	0.17215	0.13933	0.18019	5.07E-03	3.29E-07	3.53E-07	3.27E-07	3.55E-07	5.0741E-03
520622.04	4258762.56	29242.38329	0.1601	0.12445	0.15409	0.129	5.07E-03	3.76E-07	2.55E-07	3.62E-07	2.54E-07	5.0732E-03
520603.44	4258830.94	29234.93289	0.17581	0.11954	0.16979	0.12401	5.07E-03	4.13E-07	2.45E-07	3.99E-07	2.44E-07	5.0720E-03
519947.43	4258852.69	29234.07246	0.8046	0.42785	0.89429	0.41549	5.07E-03	1.89E-06	8.77E-07	2.10E-06	8.18E-07	5.0762E-03
519962.58	4258938.49	29233.36053	1.07559	0.32504	1.20094	0.32057	5.07E-03	2.53E-06	6.67E-07	2.82E-06	6.31E-07	5.0770E-03
520598.82	4258260.31	29228.69255	0.13807	0.17907	0.13701	0.18663	5.07E-03	3.24E-07	3.67E-07	3.22E-07	3.67E-07	5.0710E-03
520594.07	4258238.25	29223.46303	0.13755	0.18318	0.1365	0.19113	5.07E-03	3.23E-07	3.76E-07	3.20E-07	3.76E-07	5.0701E-03
520129.13	4258272.47	29153.08279	0.2441	0.08444	0.24922	7.12524	5.06E-03	5.73E-07	1.25E-05	5.85E-07	1.40E-05	5.0841E-03
520607.05	4258822.31	29139.53497	0.17302	0.11993	0.16704	0.12433	5.05E-03	4.06E-07	2.46E-07	3.92E-07	2.45E-07	5.0554E-03
520158.62	4258232.57	29058.60602	0.2233	3.57944	0.22663	4.09779	5.04E-03	5.24E-07	7.34E-06	5.32E-07	8.07E-06	5.0565E-03
520227.36	4258162.78	29057.64762	0.19544	1.59025	0.20308	1.7563	5.04E-03	4.59E-07	3.26E-06	4.77E-07	3.46E-06	5.0476E-03
520531.37	4258976.48	29048.00529	0.23873	0.11473	0.22955	0.11985	5.04E-03	5.60E-07	2.35E-07	5.39

520052.91	4259095.75	28506.06325	7.03898	0.23793	11.46657	0.23001	4.94E-03	1.65E-05	4.88E-07	2.69E-05	4.53E-07	4.9886E-03
520247	4258142.84	28499.1456	0.18749	1.33201	0.19623	1.46067	4.94E-03	4.40E-07	2.73E-06	4.61E-07	2.88E-06	4.9496E-03
519943.73	4258843.77	28481.80603	0.75773	0.43783	0.84016	0.42397	4.94E-03	1.78E-06	8.98E-07	1.97E-06	8.35E-07	4.9455E-03
520575.73	4258170.32	28481.16013	0.13666	0.19752	0.13792	0.20788	4.94E-03	3.21E-07	4.05E-07	3.24E-07	4.09E-07	4.9414E-03
519968.96	4258971.1	28462.60928	1.19671	0.29556	1.34319	0.29226	4.94E-03	2.81E-06	6.06E-07	3.15E-06	5.75E-07	4.9439E-03
520621.5	4258787.81	28444.66187	0.16222	0.12114	0.15639	0.12534	4.93E-03	3.81E-07	2.48E-07	3.67E-07	2.47E-07	4.9348E-03
520586.44	4258194.93	28432.6273	0.1359	0.18918	0.136	0.19847	4.93E-03	3.19E-07	3.88E-07	3.19E-07	3.91E-07	4.9329E-03
519967.12	4258683.15	28430.92084	0.66159	0.93715	0.75594	0.87606	4.93E-03	1.55E-06	1.92E-06	1.77E-06	1.72E-06	4.9382E-03
520119.31	4258282.44	28417.51476	0.24746	7.67211	0.25389	8.99117	4.93E-03	5.81E-07	1.57E-05	5.96E-07	1.77E-05	4.9635E-03
520605.17	4258421.21	28408.84953	0.14884	0.14364	0.14564	0.17079	4.93E-03	3.49E-07	3.34E-07	3.42E-07	3.36E-07	4.9287E-03
520591.03	4258206.91	28403.96514	0.13565	0.18577	0.13523	0.19457	4.93E-03	3.18E-07	3.81E-07	3.17E-07	3.83E-07	4.9279E-03
520582.48	4258895.28	28362.25321	0.1934	0.11455	0.18699	0.11933	4.92E-03	4.54E-07	2.35E-07	4.39E-07	2.35E-07	4.9207E-03
520569.96	4258920.48	28360.18034	0.20372	0.11362	0.19668	0.11858	4.92E-03	4.78E-07	2.33E-07	4.62E-07	2.33E-07	4.9204E-03
519943.15	4258818.26	28329.46027	0.71866	0.48146	0.79565	0.46335	4.91E-03	1.69E-06	9.87E-07	1.87E-06	9.12E-07	4.9191E-03
520629.33	4258745.15	28322.19506	0.15505	0.1243	0.14929	0.12904	4.91E-03	3.64E-07	2.55E-07	3.50E-07	2.54E-07	4.9136E-03
520598.18	4258480.46	28318.75977	0.15507	0.16216	0.15061	0.17023	4.91E-03	3.64E-07	3.33E-07	3.54E-07	3.35E-07	4.9131E-03
519944.16	4258868.92	28276.81311	0.79249	0.39879	0.87663	0.38865	4.90E-03	1.86E-06	8.18E-07	2.06E-06	7.65E-07	4.9100E-03
520138.98	4258252.5	28242.72671	0.23061	4.9968	0.2344	5.7973	4.90E-03	5.41E-07	1.02E-05	5.50E-07	1.14E-05	4.9213E-03
520610.59	4258357.85	28242.26534	0.14235	0.16418	0.14014	0.17229	4.90E-03	3.34E-07	3.37E-07	3.29E-07	3.39E-07	4.8998E-03
519950.1	4258913.35	28183.23467	0.89965	0.34498	0.99588	0.33918	4.89E-03	2.11E-06	7.08E-07	2.34E-06	6.68E-07	4.8941E-03
520539.87	4258972.96	28183.06633	0.23036	0.11305	0.2217	0.11806	4.89E-03	5.41E-07	2.32E-07	5.20E-07	2.32E-07	4.8897E-03
520625.11	4258779.18	28180.6478	0.15968	0.12133	0.1539	0.12556	4.89E-03	3.75E-07	2.49E-07	3.61E-07	2.47E-07	4.8890E-03
520286.25	4258112.96	28168.93268	0.17673	0.97142	0.18677	1.05492	4.89E-03	4.15E-07	1.99E-06	4.38E-07	2.08E-06	4.8907E-03
520604.24	4258252.61	28162.2107	0.13566	0.17589	0.13451	0.18321	4.88E-03	3.18E-07	3.61E-07	3.16E-07	3.61E-07	4.8860E-03
520256.82	4258132.87	28150.53498	0.18353	1.22607	0.19269	1.33991	4.88E-03	4.31E-07	2.51E-06	4.52E-07	2.64E-06	4.8886E-03
520084.96	4259127.18	28140.38529	15.52793	0.23098	19.02608	0.21864	4.88E-03	3.65E-05	4.74E-07	4.47E-05	4.30E-07	4.9628E-03
520197.93	4258182.69	28100.50236	0.20038	2.1567	0.20506	2.40895	4.87E-03	4.70E-07	4.42E-06	4.81E-07	4.74E-06	4.8840E-03
520188.11	4258192.66	28099.73112	0.20406	2.41554	0.20806	2.71161	4.87E-03	4.79E-07	4.95E-06	4.88E-07	5.34E-06	4.8850E-03
519951.95	4258924.11	28093.21584	0.93018	0.33381	1.03038	0.32868	4.87E-03	2.18E-06	6.85E-07	2.42E-06	6.47E-07	4.8786E-03
520029.52	4258531.09	28085.34454	0.67132	3.92845	0.78019	3.20825	4.87E-03	1.58E-06	8.06E-06	1.83E-06	6.32E-06	4.8891E-03
520610.36	4258383.1	28082.16998	0.14426	0.16275	0.1415	0.17052	4.87E-03	3.39E-07	3.34E-07	3.32E-07	3.36E-07	4.8721E-03
520585.48	4258184.51	28064.15133	0.18591	0.18999	0.13569	0.19954	4.87E-03	3.17E-07	3.90E-07	3.19E-07	3.93E-07	4.8690E-03
520549.29	4258959.06	28050.02133	0.22144	0.11276	0.2133	0.11777	4.87E-03	5.20E-07	2.31E-07	5.01E-07	2.32E-07	4.8666E-03
520602.98	4258242.06	28048.07024	0.13513	0.1771	0.13395	0.18456	4.86E-03	3.17E-07	3.63E-07	3.14E-07	3.63E-07	4.8662E-03
520207.75	4258172.72	28045.99523	0.19672	1.93869	0.2021	2.15627	4.86E-03	4.62E-07	3.98E-06	4.74E-07	4.24E-06	4.8736E-03
519989.89	4258618.53	28036.40424	0.67422	1.47729	0.78852	1.35068	4.86E-03	1.58E-06	3.03E-06	1.85E-06	2.66E-06	4.8719E-03
520178.29	4258202.63	28015.28992	0.20768	2.72821	0.21112	3.07762	4.86E-03	4.88E-07	5.60E-06	4.96E-07	6.06E-06	4.8718E-03
520608.71	4258274.55	27971.33122	0.13616	0.17174	0.1352	0.17904	4.85E-03	3.20E-07	3.52E-07	3.17E-07	3.52E-07	4.8528E-03
520631.3	4258692.56	27969.62689	0.15058	0.13073	0.14498	0.13547	4.85E-03	3.54E-07	2.68E-07	3.40E-07	2.67E-07	4.8524E-03
520607.5	4258264.02	27944.95626	0.13563	0.17318	0.13456	0.1804	4.85E-03	3.18E-07	3.55E-07	3.16E-07	3.55E-07	4.8483E-03
520610.02	4258285.13	27936.61329	0.13665	0.17014	0.13576	0.17759	4.85E-03	3.21E-07	3.49E-07	3.19E-07	3.50E-07	4.8468E-03
519953.46	4258934.81	27933.87065	0.95938	0.32313	1.06346	0.31856	4.85E-03	2.25E-06	6.63E-07	2.50E-06	6.27E-07	4.8510E-03
520601.46	4258463.23	27932.8972	0.15277	0.1617	0.1488	0.1697	4.84E-03	3.59E-07	3.32E-07	3.49E-07	3.34E-07	4.8462E-03
520099.64	4258312.38	27931.524	0.2645	14.38467	0.27573	15.31853	4.84E-03	6.21E-07	2.95E-05	6.47E-07	3.02E-05	4.9055E-03
520217.57	4258162.75	27928.62509	0.19304	1.75331	0.19915	1.94212	4.84E-03	4.53E-07	3.60E-06	4.68E-07	3.82E-06	4.8524E-03
520558.88	4258945.08	27924.11751	0.21311	0.11253	0.20549	0.11751	4.84E-03	5.00E-07	2.31E-07	4.82E-07	2.31E-07	4.8448E-03
520094.88	4259137.17	27891.188	12.66773	0.22792	11.77934	0.21461	4.84E-03	2.97E-05	4.67E-07	2.77E-05	4.22E-07	4.8959E-03
520168.47	4258212.6	27876.75029	0.21133	3.1097	0.21431	3.53184	4.84E-03	4.96E-07	6.38E-06	5.01E-07	6.95E-06	4.8494E-03
520601.82	4258231.55	27876.01049	0.13455	0.17819	0.13344	0.18583	4.83E-03	3.16E-07	3.65E-07	3.13E-07	3.66E-07	4.8363E-03
520628.72	4258770.56	27867.10616	0.15717	0.12141	0.15146	0.1257	4.83E-03	3.69E-07	2.49E-07	3.56E-07	2.47E-07	4.8346E-03
520525.7	4258998.84	27861.99259	0.24477	0.11247	0.23532	0.11743	4.83E-03	5.75E-07	2.31E-07	5.52E-07	2.31E-07	4.8341E-03
520596.02	4258872.6	27853.51096	0.183	0.11472	0.17706	0.11925	4.83E-03	4.30E-07	2.35E-07	4.16E-07	2.35E-07	4.8324E-03
520611.47	4258295.76	27841.53692	0.13709	0.16826	0.13618	0.17591	4.83E-03	3.22E-07	3.45E-07	3.20E-07	3.46E-07	4.8303E-03
520599.6	4258864.04	27839.56553	0.18024	0.11513	0.17432	0.1196	4.83E-03	4.23E-07	2.36E-07	4.09E-07	2.35E-07	4.8299E-03
520535.28	4258884.87	27815.13624	0.235	0.11235	0.2261	0.1173	4.82E-03	5.52E-07	2.30E-07	5.31E-07	2.31E-07	4.8260E-03
520581.2	4258905.82	27813.78359	0.19476	0.11312	0.18827	0.11791	4.82E-03	4.57E-07	2.32E-07	4.42E-07	2.32E-07	4.8255E-03
520603.18	4258855.48	27813.06286	0.1775	0.11547	0.1716	0.1199	4.82E-03	4.17E-07	2.37E-07	4.03E-07	2.36E-07	4.8253E-03
520632.97	4258736.45	27781.71358	0.15262	0.12419	0.14701	0.12897	4.82E-03	3.58E-07	2.55E-07	3.45E-07	2.54E-07	4.8198E-03
519957.88	4258709.1	27781.67634	0.644	0.79196	0.72629	0.74641	4.82E-03	1.51E-06	1.62E-06	1.71E-06	1.47E-06	4.8249E-03
520050.29	4258455.9	27771.76966	0.45467	8.40345	0.49504	5.95118	4.82E-03	1.07E-06	1.72E-05	1.16E-06	1.17E-05	4.8481E-03
520266.64	4258122.9	27769.36693	0.17961	1.13225	0.18908	1.23339	4.82E-03	4.22E-07	2.32E-06	4.44E-07	2.43E-06	4.8221E-03
520606.77	4258846.93	27769.32782	0.17475	0.11584	0.16891	0.12022	4.82E-03	4.10E-07	2.38E-07	3.97E-07	2.37E-07	4.8177E-03
519944.31	4258893.39	27758.40357	0.82017	0.3652	0.90607	0.35769	4.81E-03	1.93E-06	7.49E-07	2.13E-06	7.04E-07	4.8201E-03
520227.39	4258152.78	27737.51884	0.18931	1.59437	0.19614	1.75823	4.81E-03	4.44E-07	3.27E-06	4.66E-07	3.46E-06	4.8186E-03
520568.67	4258931.02	27733.69225	0.20499	0.11226	0.19788	0.11717	4.81E-03	4.81E-07	2.30E-07	4.65E-07	2.31E-07	4.8117E-03
519955.25	4258945.46	27716.32044	0.98738	0.31291	1.09527	0.30882	4.81E-03	2.32E-06	6.42E-07	2.57E-06	6.08E-07	4.8134E-03
520610.35	4258838.37	27710.39394	0.17205	0.11639	0.16634	0.12071	4.81E-03	4.04E-07	2.39E-07	3.91E-07	2.38E-07	4.8075E-03
520129.16	4258262.47	27697.99358	0.23404	6.09769	0.23856	7.13881	4.80E-03	5.49E-07	1.25E-05	5.60E-07	1.41E-05	4.8318E-03
519942.4	4258792.34	27696.22017	0.67329	0.53008	0.74507	0.50712	4.80E-03	1.58E-06	1.09E-06	1.75E-06	9.98E-07	4.8092E-03
520053.34	4259105.75	27694.86895	7.23313	0.23162	11.83937	0.22392	4.80E-03	1.70E-05	4.75E-07	2.78E-05	4.41E-07	4.8492E-03
520043.01	4259095.77	27688.06454	5.09162	0.23346	7.00506	0.2271	4.80E-03	1.20E-05	4.79E-07	1.64E-05	4.47E-07	4.8317E-03
520600.74	4258221.08	27682.22474	0.13399	0.17902	0.13301	0.18695	4.80E-03	3.15E-07	3.67E-07	3.12E-07	3.68E-07	4.8027E-03
520584.59	4258174.11	27676.41057	0.13448	0.19078	0.13533	0.20055	4.80E-03	3.16E-07	3.91E-07	3.18E-07	3.95E-07	4.8018E-03
520613.06	4258306.46	27673.04476	0.13747	0.16623	0.13644	0.17408	4.80E-03	3.23E-07	3.41E-07	3.20E-07	3.43E-07	4.8011E-03
519940.03	4258834.84	27663.95346	0.71342	0.44753	0.78843	0.4322	4.80E-03	1.67E-06	9.18E-07	1.85E-06	8.51E-07	4.8035E-03
519958.3	4258956.71	27652.91168	1.03445	0.30348	1.14996	0.29979	4.80E-03	2.43E-06	6.22E-07	2.70E-06	5.90E-07	4.8026E-03
520610.3	4258408.81	27646.01308	0.14598	0.16118	0.14288	0.16873	4.80E-03	3.43E-07	3.31E-07	3.35E-07	3.32E-07	4.7964E-03
520158.65	4258222.57	27636.98135	0.21487	3.58758	0.21764	4.10158	4.79E-03	5.04E-07	7.36E-06	5.11E-07	8.07E-06	4.8100E-03
519940.49	4258860.07	27635.17538	0.74811	0.40804	0.82671	0.39653	4.79E-03	1.76E-06	8.37E-07	1.94E-06	7.81E-07	4.7985E-03
520613.93	4258829.81	27630.67172	0.16938	0.11684	0.16374	0.12108	4.79E-03	3.98E-07	2.40E-07	3.84E-07	2.38E-07	4.7937E-03
520614.34	4258341.83	27566.58129	0.13979	0.16307	0.13795	0.17115	4.78E-03	3.28E-07	3.34E-07	3.24E-07	3.37E-07	4.7826E-03
520634.33	4258709.28	27564.87933	0.15016	0.12722	0.14467	0.13203	4.78E-03	3.53E-07	2.61E-07	3.40E-07	2.60E-07	4.7822E-03
520109.49	4258292.41	27563.92643	0.25039	0.13268	0.25855	11.69529	4.78E-03	5.88E-07	2.08E-05	6.07E-07	2.30E-05	4.8258E-03
520237.21	4258142.81	27537.48385	0.18571	1.45586	0.19313	1.60058	4.78E-03	4.36E-07	2.99E-06	4.53E-07	3.15E-06	4.7833E-03
520613.99	4258366.77	27530.23864	0.14176	0.16155	0.13923	0.16942	4.77E-03	3.33E-07	3.31E-07	3.27E-07	3.34E-07	4.7763E-03
520617.51	4258821.26	27526.94163	0.16675	0.11722	0.16117	0.12139	4.77E-03	3.91E-07	2.40E-07	3.78E-07	2.39E-07	4.7757E-03
520595.42	4258198.77	27516.13011	0.13363	0.18284	0.13331	0.19155	4.77E-03	3.14E-07	3.75E-07	3.13E-07	3.77E-07	4.7739E-03
520632.33	4258761.93	27506.56169	0.15473	0.12139	0.14909	0.12578	4.77E-03	3.63E-07	2.49E-07	3.50E-07	2.48E-07	4.7721E-03
520019.6	4258350.53	27459.82534	0.68419	2.97292	0.80953	2.53846	4.76E-03	1.61E-06	6.10E-06	1.90E-06	4.96E-06	4.7773E-03
520608.47	4258429.88	27458.23525	0.148	0.16054	0.14464	0.16817	4.76E-03	3.47E-07	3.29E-07	3.40E-07	3.31E-07	4.7639E-03
520057.08	4258415.76	27448.96678	0.36667	11.88426	0.39541	7.52444	4.76E-03	8.61E-07	2.44E-05	9.28E-07	1.48E-05	4.8019E-03
520599.75	4258210.64	27437.19612	0.13339	0.17981	0.13263	0.18802	4.76E-03	3.13E-07	3.69E-07	3.11E-07	3.70E-07	4.7602E-03
520578.69	4258916.87	27409.65312	0.19699	0.11197	0.19038	0.11677	4.75E-03	4.62E-07	2.30E-07	4.47E-07	2.30E-07	4.7549E-03
520276.46	4258112.93	27402.68904	0.17588	1.04859	0.18549	1.13968	4.75E-03	4.13E-07	2.15E-06	4.35E-07	2.24E-06	4.7581E-03
520621.1	4258812.7	27396.93169	0.16416	0.11755	0.1586	0.12166	4.75E-03	3.85E-07	2.41E-07	3.72E-07	2.39E-07	4.7531E-03
520590.99	4258891.76	27365.80788	0.18728	0.1129	0.18121	0.11751	4.75E-03	4.40E-07	2.32E-07	4.25E-07	2.31E-07	4.7478E-03
519959.92	4258967.37	27361.92278	1.06385	0.29419	1.18396	0.29085	4.75E-03	2.50E-06	6.03E-07	2.78E-06	5.73E-07	4.7523E-03
520548.37	4258969.45	27354.25117	0.22244	0.1114	0.21427	0.11631	4.74E-03	5.22E-07	2.28E-07	5.03E-07	2.29E-07	4.7460E-03
520148.83	4258232.53	27319.36723	0.21835	4.1977	0.22112	4.84025	4.74E-03	5.13E-07	8.61E-06	5.19E-07	9.53E-06	4.7576E-03
519939.41	4258809.25	27297.74038	0.6738	0.49127	0.7433	0.47172	4.73E-03	1.58E-06	1.01E-06	1.75E-06	9.29E-07	4.7399E-03
519977.12	4258646.05	27291.23633	0.64282	1.16867	0.7375	1.08375	4.73E-03	1.51E-06	2.40E-06	1.73E-06	2.13E-06	4.7413E-03
519967.12	4258673.87	27285.32447	0.63489	0.96834	0.72391	0.9046	4.73E-03	1.49E-06	1.99E-06	1.70E-06	1.78E-06	4.7395E-03
520613.79	4258392.11	27274.69901	0.14355	0.16034	0.1406	0.16787	4.73E-03	3.37E-07	3.29E-07	3.30E-07	3.30E-07	4.7320E-03
520084.98	4259137.18	27268.55673	15.37999	0.22491	18.93128	0.21303	4.73E-03	3.61E-05	4.61E-07	4.44E-05	4.19E-07	4.8110E-03
519943.46	4258770.77	27265.29979	0.64668	0.57743	0.71605	0.55047	4.73E-03	1.52E-06	1.18E-06	1.68E-06	1.08E-06	4.7345E-03
520247.03	4258132.84	27261.20776	0.18202	1.33526	0.19002	1.46246	4.73E-03	4.27E-07	2.74E-06	4.46E-07	2.88E-06	4.7348E-03
519940.52	4258884.25	27259.08204	0.77518	0.37372	0.8546	0.36522	4.73E-03	1.82E-06	7.66E-07	2.01E-06	7.19E-07	4.7333E-03
520636.62	4258727.75	27252.83194	0.15032	0.12418	0.14488	0.12894	4.73E-03	3.53E-07	2.55E-07	3.40E-07	2.54E-07	4.7281E-03
519946.47	4258753.92	27243.4916	0.6377	0.62485	0.71251	0.59313	4.73E-03	1.50E-06	1.28E-06	1.67E-06	1.17E-06	4.7309E-03
520624.68	4258804.14	27239.18476	0.16161	0.11785	0.15608	0.1219	4.72E-03	3.79E-07	2.42E-07	3.66E-07	2.40E-07	4.7257E-03
520557.84	4258955.52	27224.22289	0.21404	0.11114	0.20637	0.11603	4.72E-03	5.02E-07	2.28E-07	4.84E-07	2.28E-07	4.7234E-03
520594.4	4258188.32	27208.81692	0.133	0.18362	0.13304	0.19261	4.72E-03	3.12E-07	3.77E-07	3.12E-07	3.79E-07	4.7206E-03
519949.36	4258736.79	27142.21194	0.63057	0.67632	0.70474	0.64095	4.71E-03	1.48E-06	1.39E-06	1.65E-06	1.26E-06	4.7135E-03
520635.94	4258753.3	27098.16987	0.15234	0.12131	0.14681	0.12579	4.70E-03	3.58E-07	2.49E-07	3.45E-07	2.48E-07	4.7013E-03
520534.39	4258995.25	27088.61155	0.23599	0.11092	0.22707	0.11577	4.70E-03	5.54E-07	2.27E-07	5.33E-07	2.28E-07	4.6999E-03
520567.49	4258941.52	27082.24116	0.20609	0.11091	0.19892	0.11576	4.70E-03	4.84E-07	2.27E-07	4.67E-07	2.28E-07	4.6987E-03
519960.75	4258691.89	27068.38764	0.62655	0.86139	0.70889	0.8093	4.69E-03	1.47E-06	1.77E-06	1.66E-06	1.59E-06	4.7014E-03
520628.26	4258795.59	27048.53939	0.15911	0.11812	0.15361	0.12214	4.69E-03	3.74E-07	2.42E-07	3.61E-07	2.40E-07	4.6927E-03
520119.34	4258272.44	27031.18079	0.23713	7.68679	0.24286	9.04061	4.69E-03	5.57E-07	1.58E-05	5.70E-07	1.78E-05	4.7231E-03
520604.84	4258472.09	27006.86845	0.1517	0.15928	0.14744	0.16713	4.68E-03	3.56E-07	3.27E-07	3.46E-07	3.29E-07	4.6856E-03
520544.02	4258981.26	26991.85409	0.22659	0.1107	0.21819	0.11554	4.68E-03	5.32E-07	2.27E-07	5.12E-07	2.27E-07	4.6831E-03
520009.69	4258569.96	26980.96469	0.67937	2.32234	0.81052	2.02174	4.68E-03	1.59E-06	4.76E-06	1.90E-06	3.98E-06	4.6920E-03
520095.31	4259147.99	26975.83372	12.42387	0.22163	11.55381	0.20878	4.68E-03	2.92E-05	4.55E-07	2.71E-05	4.11E-07	4.7360E-03
520256.85	4258122.87	26962.40632	0.17839	1.22892	0.18685	1.34172	4.68E-03	4.19E-07	2.52E-06	4.39E-07	2.64E-06	4.6825E-03
519936.82	4258851.23	26933.1338	0.70616	0.41706	0.77868	0.40417	4.67E-03	1.66E-06	8.55E-07	1.83E-06	7.96E-07	4.6764E-03
520043.44	4259105.77	26924.54648	5.20521	0.22732	7.14831	0.22113	4.67E-03	1.22E-05	4.66E-07	1.68E-05	4.35E-07	4.6998E-03
520617.71	4258350.66	26924.30707	0.13923	0.16064	0.13707	0.16852	4.67E-03	3.27E-07	3.29E-07	3.22E-07	3.32E-07	4.6712E-03
520637.83	4258700.92	26918.43397	0.14806	0.12728	0.14267	0.13193	4.67E-03	3.48E-07	2.61E-07	3.35E-07	2.60E-07	4.6701E-03
520613.22	4258256.46	26898.23935	0.13318	0.17007	0.13203	0.17702	4.67E-03	3.13E-07	3.49E-07	3.10E-07	3.48E-07	4.6667E-03
520593.45	4258177.9	26882.95095	0.13236	0.18435	0.13276	0.19361	4.66E-03	3.11E-07	3.78E-07	3.12E-07	3.81E-07	4.6641E-03
520139.01	4258242.5	26877.61037	0.22159	5.00612	0.22482	5.80904	4.66E-03	5.20E-07	1.03E-05	5.28E-07	1.14E-05	4.6845E-03
520589.65	4258902.32	26874.58234	0.18862	0.11154	0.1825	0.11616	4.66E-03	4.43E-07	2.29E-07	4.28E-07	2.29E-07	4.6626E-03
520053.36	4259115.75	26867.38762	7.31064	0.22539	11.90904	0.21798	4.66E-03	1.72E-05	4.62E-07	2.80E-05	4.29E-07	4.7060E-03
520611.88	4258245.87	26863.19484	0.13272	0.13148	0.13143	0.17833	4.66E-03	3.12E-07	3.09E-07	3.51E-07	3.09E-07	4.6606E-03
520577.34	4258927.43	26855.53143	0.19827	0.11064	0.19158	0.1154	4.66E-03	4.65E-07	2.27E-07	4.50E-07	2.27E-07	4.6593E-03
520039.4	4258501.95	26844.93713	0.58784	5.41337	0.65921	4.24396	4.66E-03	1.38E-06	1.11E-05	1.55E-06	8.35E-06	4.6785E-03
520631.84	4258787.03	26822.2246	0.15665	0.11834	0.15119	0.12236	4.65E-03	3.68E-07	3.55E-07	2.43E-07	2.41E-07	4.6534E-03
520197.96	4258172.69	26815.868	0.1937	2.16097	0.19763	2.41194	4.65E-03	4.55E-07	4.43E-06	4.64E-07	4.75E-06	4.6612E-03
520188.14	4258182.66	26807.67916	0.1971	2.41987	0.20038	2.71551	4.65E-03	4.63E-07	4.96E-06	4.70E-07	5.35E-06	4.6609E-03
520617.39	4258375.69	26806.6119	0.14112	0.15912	0.13834	0.16673	4.65E-03	3.31E-07	3.26E-07	3.25E-07	3.28E-07	4.6508E-03
520207.78	4258162.72	26783.87106	0.19035	1.9425	0.19495	2.15911	4.65E-03	4.47E-07	3.98E-06	4.58E-07	4.25E-06	4.6547E-03
519936.33	4258825.92	26778.66908	0.67124	0.45685	0.73933	0.44009	4.64E-03	1.58E-06	9.37E-07	1.74E-06	8.66E-07	4.6498E-03
520610.66	4258235.33	26759.58735	0.13219	0.17247	0.13096	0.17962	4.64E-03	3.10E-07	3.54E-07	3.07E-07	3.54E-07	4.6427E-03
519952.12	4258719.32	26734.78615	0.61744	0.7331	0.69152	0.69332	4.64E-03	1.45E-06	1.50E-06	1.62E-06	1.36E-06	4.6430E-03
520613.77	4258417.94	26726.20483	0.14516	0.15857	0.1419	0.16599	4.64E-03	3.41E-07	3.25E-07	3.33E-07	3.27E-07	4.6369E-03
520608.24	4258455.15	26724.92555	0.14944	0.1587	0.14559	0.16643	4.64E-03	3.51E-07	3.25E-07	3.42E-07	3.28E-07	4.6367E-03
519942.96	4258920.4	26720.8677	0.83299	0.33143	0.91714	0.32608	4.64E-03	1.96E-06	6.80E-07	2.15E-06	6.42E-07	4.6400E-03
520178.32	4258192.63	26704.01499	0.20038	2.73362	0.2032	3.08093	4.63E-03	4.70E-07	5.61E-06	4.77

520109.52	4258282.41	26236.21276	0.23973	10.15774	0.24714	11.75557	4.55E-03	5.63E-07	2.08E-05	5.80E-07	2.31E-05	4.5957E-03
520620.83	4258837.28	26230.64942	0.1658	0.11381	0.16047	0.11791	4.55E-03	3.89E-07	2.33E-07	3.77E-07	2.32E-07	4.5508E-03
520552.76	4258977.64	26216.3725	0.21871	0.10911	0.21079	0.11385	4.55E-03	5.13E-07	2.24E-07	4.95E-07	2.24E-07	4.5486E-03
519935.68	4258800.24	26206.34413	0.61336	0.50032	0.69399	0.47959	4.55E-03	1.48E-06	1.03E-06	1.63E-06	9.44E-07	4.5505E-03
520639.01	4258769.92	26190.85145	0.15182	0.11828	0.14642	0.12243	4.54E-03	3.56E-07	2.43E-07	3.44E-07	2.41E-07	4.5439E-03
520641.33	4258692.55	26181.68131	0.14593	0.12729	0.14062	0.13177	4.54E-03	3.43E-07	2.61E-07	3.30E-07	2.59E-07	4.5423E-03
520608.22	4258480.96	26180.95342	0.15061	0.15697	0.14606	0.16462	4.54E-03	3.54E-07	3.22E-07	3.43E-07	3.24E-07	4.5423E-03
519933.15	4258842.38	26173.25517	0.66643	0.4258	0.73265	0.41156	4.54E-03	1.56E-06	8.73E-07	1.72E-06	8.10E-07	4.5446E-03
520095.33	4259157.99	26143.8389	12.33657	0.21597	11.51765	0.20358	4.53E-03	2.90E-05	4.43E-07	2.70E-05	4.01E-07	4.5914E-03
520624.38	4258828.79	26143.57436	0.16331	0.11414	0.158	0.11819	4.53E-03	3.83E-07	2.34E-07	3.71E-07	2.33E-07	4.5357E-03
520643.17	4258736.05	26142.53598	0.14776	0.12124	0.14255	0.12579	4.53E-03	3.47E-07	2.49E-07	3.35E-07	2.48E-07	4.5355E-03
520043.46	4259115.77	26127.53376	5.24457	0.22125	7.17551	0.21528	4.53E-03	1.23E-05	4.54E-07	1.68E-05	4.24E-07	4.5617E-03
520247.06	4258122.84	26119.54325	0.17683	1.33794	0.18406	1.46439	4.53E-03	4.15E-07	2.74E-06	4.32E-07	2.88E-06	4.5368E-03
519989.85	4258608.84	26111.20312	0.6371	1.51554	0.74521	1.38437	4.53E-03	1.50E-06	3.11E-06	1.75E-06	2.73E-06	4.5379E-03
520055.26	4259127.23	26076.2879	7.91443	0.21933	13.65884	0.21194	4.52E-03	1.86E-05	4.50E-07	3.21E-05	4.17E-07	4.5743E-03
520620.78	4258384.62	26074.73393	0.14043	0.15699	0.13749	0.16433	4.52E-03	3.30E-07	3.23E-07	3.23E-07	3.23E-07	4.5238E-03
519967.12	4258664.6	26069.13946	0.60798	0.99823	0.69188	0.93199	4.52E-03	1.43E-06	2.05E-06	1.62E-06	1.83E-06	4.5285E-03
519932.94	4258865.97	26061.02349	0.6913	0.39106	0.75969	0.38009	4.52E-03	1.62E-06	8.02E-07	1.78E-06	7.48E-07	4.5251E-03
520602.3	4258181.69	26056.69456	0.13021	0.1783	0.13018	0.18702	4.52E-03	3.06E-07	3.66E-07	3.06E-07	3.68E-07	4.5208E-03
520627.94	4258820.29	26034.20002	0.16083	0.11451	0.15557	0.11848	4.52E-03	3.78E-07	2.35E-07	3.65E-07	2.33E-07	4.5167E-03
520148.86	4258222.53	26029.34724	0.21018	4.20561	0.21247	4.84596	4.51E-03	4.93E-07	8.63E-06	4.99E-07	9.54E-06	4.5338E-03
520586	4258923.84	25993.60261	0.19186	0.10907	0.18557	0.11368	4.51E-03	4.50E-07	2.24E-07	4.36E-07	2.24E-07	4.5098E-03
520643.91	4258710.34	25992.23429	0.14584	0.12409	0.14067	0.12866	4.51E-03	3.42E-07	2.54E-07	3.30E-07	2.53E-07	4.5094E-03
520598.1	4258898.82	25963.70019	0.18275	0.11	0.17697	0.11445	4.50E-03	4.29E-07	2.26E-07	4.15E-07	2.25E-07	4.5046E-03
520631.5	4258811.8	25900.16578	0.15839	0.11485	0.15317	0.11876	4.49E-03	3.72E-07	2.36E-07	3.60E-07	2.34E-07	4.4935E-03
520642.59	4258761.36	25894.41089	0.1496	0.11836	0.14441	0.1226	4.49E-03	3.51E-07	2.43E-07	3.39E-07	2.41E-07	4.4924E-03
519939.82	4258762.01	25854.67519	0.60233	0.58525	0.66561	0.55764	4.48E-03	1.41E-06	1.20E-06	1.56E-06	1.10E-06	4.4897E-03
520256.88	4258112.87	25843.47367	0.17344	1.23147	0.1812	1.34313	4.48E-03	4.07E-07	2.53E-06	4.25E-07	2.64E-06	4.4884E-03
519933.52	4258891.5	25837.87121	0.72212	0.35804	0.7924	0.35007	4.48E-03	1.70E-06	7.34E-07	1.86E-06	6.89E-07	4.4864E-03
519932.63	4258817	25834.67934	0.6313	0.46541	0.69247	0.44751	4.48E-03	1.48E-06	9.55E-07	1.63E-06	8.81E-07	4.4859E-03
520611.58	4258463.91	25826.45038	0.14843	0.15633	0.14432	0.16394	4.48E-03	3.48E-07	3.21E-07	3.39E-07	3.23E-07	4.4808E-03
520565.36	4258962.41	25805.72147	0.20791	0.10827	0.20063	0.11296	4.48E-03	4.88E-07	2.22E-07	4.71E-07	2.22E-07	4.4773E-03
520617.25	4258427.06	25803.36852	0.1443	0.15597	0.14086	0.16331	4.48E-03	3.39E-07	3.20E-07	3.31E-07	3.21E-07	4.4768E-03
519977.12	4258636.77	25776.8955	0.61172	1.1995	0.7	1.11302	4.47E-03	1.44E-06	2.46E-06	1.64E-06	2.19E-06	4.4786E-03
519954.29	4258700.45	25758.59544	0.59322	0.79508	0.66501	0.7504	4.47E-03	1.39E-06	1.56E-06	1.56E-06	1.48E-06	4.4738E-03
520635.05	4258803.31	25739.6893	0.15599	0.11517	0.15082	0.11902	4.46E-03	3.66E-07	2.36E-07	3.54E-07	2.34E-07	4.4656E-03
520119.37	4258262.44	25732.71182	0.22745	7.70584	0.23266	9.04117	4.46E-03	5.34E-07	1.58E-05	5.46E-07	1.78E-05	4.4979E-03
520029.48	4258521.39	25713.45453	0.61609	3.97682	0.70406	3.25444	4.46E-03	1.45E-06	8.16E-06	1.65E-06	6.41E-06	4.4775E-03
519942.8	4258745.07	25702.12254	0.59329	0.63163	0.65944	0.60008	4.46E-03	1.39E-06	1.30E-06	1.55E-06	1.18E-06	4.4633E-03
520624.83	4258343.51	25700.07873	0.13623	0.15716	0.13411	0.16481	4.46E-03	3.20E-07	3.22E-07	3.15E-07	3.24E-07	4.4588E-03
520620.79	4258249.68	25660.77268	0.13029	0.1659	0.12908	0.17251	4.45E-03	3.06E-07	3.40E-07	3.03E-07	3.40E-07	4.4520E-03
520574.94	4258948.44	25645.84751	0.2003	0.10802	0.19349	0.11267	4.45E-03	4.70E-07	2.22E-07	4.54E-07	2.22E-07	4.4495E-03
520619.5	4258239.12	25637.30293	0.12984	0.16703	0.12856	0.17373	4.45E-03	3.05E-07	3.43E-07	3.02E-07	3.42E-07	4.4480E-03
520622.2	4258260.3	25628.31896	0.13069	0.16458	0.1296	0.17118	4.45E-03	3.07E-07	3.38E-07	3.04E-07	3.37E-07	4.4464E-03
520139.04	4258232.5	25627.03687	0.21318	5.01367	0.2159	5.82424	4.44E-03	5.00E-07	1.03E-05	5.07E-07	1.15E-05	4.4676E-03
520625.51	4258319.42	25625.67419	0.13431	0.15816	0.13281	0.16579	4.44E-03	3.15E-07	3.24E-07	3.12E-07	3.26E-07	4.4459E-03
520197.99	4258162.69	25621.2753	0.18737	2.16468	0.19063	2.41454	4.44E-03	4.40E-07	4.44E-06	4.48E-07	4.75E-06	4.4540E-03
520624.44	4258368.34	25616.98366	0.13804	0.15602	0.13533	0.1634	4.44E-03	3.24E-07	3.20E-07	3.18E-07	3.22E-07	4.4444E-03
520620.66	4258410.15	25615.82311	0.14202	0.15547	0.13877	0.16266	4.44E-03	3.33E-07	3.19E-07	3.26E-07	3.20E-07	4.4442E-03
520551.75	4258888.06	25609.92361	0.2198	0.10786	0.21183	0.1125	4.44E-03	5.16E-07	2.21E-07	4.97E-07	2.21E-07	4.4434E-03
520188.17	4258172.66	25605.20002	0.19051	2.42372	0.19317	2.71882	4.44E-03	4.47E-07	4.97E-06	4.54E-07	5.35E-06	4.4523E-03
520646.78	4258727.42	25602.55578	0.14553	0.12127	0.14051	0.12577	4.44E-03	3.42E-07	2.49E-07	3.30E-07	2.48E-07	4.4418E-03
520613.37	4258206.46	25600.10261	0.12906	0.17121	0.12809	0.17875	4.44E-03	3.03E-07	3.51E-07	3.01E-07	3.52E-07	4.4415E-03
520085.43	4259158.01	25591.78397	16.40962	0.21316	18.29117	0.2021	4.44E-03	3.85E-05	4.37E-07	4.29E-05	3.98E-07	4.5211E-03
520596.15	4258800.64	25577.70311	0.18441	0.1088	0.17856	0.11327	4.43E-03	4.33E-07	2.23E-07	4.19E-07	2.23E-07	4.4376E-03
520207.81	4258152.72	25575.853	0.18419	1.94677	0.18815	2.15986	4.44E-03	4.32E-07	3.99E-06	4.42E-07	4.25E-06	4.4451E-03
520618.3	4258228.59	25560.0225	0.12936	0.16803	0.12808	0.17488	4.43E-03	3.04E-07	3.45E-07	3.01E-07	3.44E-07	4.4346E-03
520638.61	4258794.82	25546.36443	0.15364	0.11539	0.14849	0.11922	4.43E-03	3.61E-07	2.37E-07	3.49E-07	2.35E-07	4.4321E-03
520039.36	4258492.26	25512.17175	0.5417	5.45468	0.60135	4.27519	4.42E-03	1.27E-06	1.12E-05	1.41E-06	8.42E-06	4.4473E-03
520217.63	4258142.75	25511.03479	0.18111	1.76051	0.18572	1.94583	4.42E-03	4.25E-07	3.61E-06	4.36E-07	3.83E-06	4.4331E-03
520042.98	4258473.67	25501.90201	0.48518	6.2486	0.53192	4.74921	4.42E-03	1.14E-06	1.28E-05	1.25E-06	9.35E-06	4.4477E-03
520646.17	4258752.8	25501.63933	0.14736	0.1184	0.14222	0.1227	4.42E-03	3.46E-07	2.43E-07	3.34E-07	2.42E-07	4.4243E-03
520178.35	4258182.63	25495.533	0.19353	2.73799	0.19577	3.08464	4.42E-03	4.54E-07	5.62E-06	4.60E-07	6.07E-06	4.4347E-03
520561.49	4258974.02	25467.23513	0.21125	0.10755	0.20378	0.11218	4.42E-03	4.96E-07	2.21E-07	4.78E-07	2.21E-07	4.4186E-03
520617.19	4258218.1	25448.23359	0.12887	0.16882	0.12766	0.17591	4.41E-03	3.03E-07	3.46E-07	3.00E-07	3.46E-07	4.4152E-03
520584.7	4258934.39	25441.95837	0.19295	0.10778	0.18659	0.11236	4.41E-03	4.53E-07	2.21E-07	4.38E-07	2.21E-07	4.4141E-03
520064.11	4258372.91	25425.2137	0.30089	19.68454	0.32213	9.93187	4.41E-03	7.06E-07	7.56E-07	4.04E-05	1.96E-05	4.4713E-03
520612.23	4258195.95	25417.13734	0.12856	0.17194	0.12784	0.17979	4.41E-03	3.02E-07	3.53E-07	3.00E-07	3.54E-07	4.4098E-03
520624.86	4258271.45	25409.95069	0.1308	0.16225	0.12975	0.16898	4.41E-03	3.07E-07	3.33E-07	3.05E-07	3.33E-07	4.4085E-03
519945.66	4258727.85	25399.92897	0.58354	0.682	0.64922	0.64699	4.41E-03	1.37E-06	1.40E-06	1.52E-06	1.27E-06	4.4111E-03
520045.36	4259127.25	25386.86661	5.60187	0.21537	7.80977	0.20939	4.40E-03	1.32E-05	4.42E-07	1.83E-05	4.12E-07	4.4356E-03
520227.45	4258132.78	25383.72452	0.17798	1.6007	0.18327	1.76192	4.40E-03	4.18E-07	3.28E-06	4.30E-07	3.47E-06	4.4103E-03
519929.15	4258856.83	25370.04645	0.6525	0.39951	0.71532	0.38725	4.40E-03	1.53E-06	8.19E-07	1.68E-06	7.62E-07	4.4051E-03
519935.82	4258927.45	25367.50145	0.77384	0.31869	0.84786	0.31375	4.40E-03	1.82E-06	6.54E-07	1.99E-06	6.18E-07	4.4050E-03
520168.53	4258192.6	25360.03364	0.19663	3.12028	0.19851	3.54089	4.40E-03	4.62E-07	6.40E-06	4.66E-07	6.97E-06	4.4129E-03
519929.49	4258833.54	25356.69185	0.62867	0.43413	0.68887	0.41865	4.40E-03	1.48E-06	8.90E-07	1.62E-06	8.24E-07	4.4028E-03
520055.28	4259137.23	25356.10449	7.98042	0.21378	13.76745	0.20664	4.40E-03	1.87E-05	4.38E-07	3.23E-05	4.07E-07	4.4498E-03
520095.34	4259167.99	25347.08696	12.22931	0.21055	11.4864	0.19859	4.40E-03	2.87E-05	4.32E-07	2.70E-05	3.91E-07	4.4528E-03
520624.18	4258393.54	25327.03218	0.13971	0.15473	0.13662	0.16186	4.39E-03	3.28E-07	3.17E-07	3.21E-07	3.19E-07	4.3941E-03
520099.7	4258292.38	25322.1174	0.24174	14.47958	0.25116	15.42029	4.39E-03	5.68E-07	2.97E-05	5.90E-07	3.04E-05	4.4532E-03
520626.19	4258282.04	25320.25051	0.13122	0.16073	0.1302	0.16763	4.39E-03	3.08E-07	3.30E-07	3.06E-07	3.30E-07	4.3930E-03
520642.16	4258786.32	25320.02337	0.15134	0.1155	0.1462	0.11935	4.39E-03	3.55E-07	2.37E-07	3.43E-07	2.35E-07	4.3928E-03
519929.76	4258882.44	25306.97459	0.68369	0.36591	0.74878	0.35686	4.39E-03	1.61E-06	7.50E-07	1.76E-06	7.02E-07	4.3942E-03
520647.55	4258701.64	25304.4457	0.14369	0.12409	0.13861	0.12849	4.39E-03	3.37E-07	2.54E-07	3.25E-07	2.53E-07	4.3901E-03
519937.54	4258938.15	25302.75208	0.79763	0.30901	0.87448	0.30467	4.39E-03	1.87E-06	6.34E-07	2.05E-06	6.00E-07	4.3938E-03
519940.09	4258949.2	25302.73606	0.82951	0.29987	0.91045	0.29605	4.39E-03	1.95E-06	6.15E-07	2.14E-06	5.83E-07	4.3939E-03
520237.27	4258122.81	25228.63696	0.17489	1.46182	0.18082	1.60356	4.38E-03	4.11E-07	3.00E-06	4.25E-07	3.16E-06	4.3828E-03
520611.16	4258185.48	25204.28491	0.12803	0.17262	0.12763	0.18077	4.37E-03	3.01E-07	3.54E-07	3.00E-07	3.56E-07	4.3729E-03
520627.65	4258292.67	25187.60335	0.1316	0.15903	0.13051	0.16615	4.37E-03	3.09E-07	3.26E-07	3.06E-07	3.27E-07	4.3699E-03
519941.85	4258959.92	25158.33892	0.8542	0.29095	0.9383	0.28755	4.36E-03	2.01E-06	5.97E-07	2.20E-06	5.66E-07	4.3690E-03
520594.67	4258920.26	25139.08736	0.18571	0.10755	0.17979	0.11202	4.36E-03	4.36E-07	2.21E-07	4.22E-07	2.21E-07	4.3616E-03
520158.71	4258202.57	25136.49035	0.19962	3.5994	0.20137	4.113	4.36E-03	4.69E-07	7.38E-06	4.73E-07	8.10E-06	4.3762E-03
519934.85	4258774.14	25130.72929	0.58619	0.54076	0.6438	0.52235	4.36E-03	1.38E-06	1.12E-06	1.51E-06	1.03E-06	4.3638E-03
520129.22	4258242.47	25129.41088	0.21596	6.12265	0.2195	7.16076	4.36E-03	5.07E-07	1.26E-05	5.15E-07	1.41E-05	4.3863E-03
520628.17	4258352.27	25110.41188	0.13569	0.15482	0.13325	0.16227	4.36E-03	3.19E-07	3.18E-07	3.13E-07	3.19E-07	4.3566E-03
520613.61	4258878.45	25095.14855	0.17207	0.10938	0.16681	0.11354	4.35E-03	4.04E-07	2.24E-07	3.92E-07	2.24E-07	4.3539E-03
520610.08	4258886.89	25093.87732	0.17459	0.10893	0.16922	0.11316	4.35E-03	4.10E-07	2.23E-07	3.97E-07	2.23E-07	4.3537E-03
520019.56	4258540.83	25079.88416	0.63263	3.02761	0.73768	2.56388	4.35E-03	1.49E-06	6.21E-06	1.73E-06	5.05E-06	4.3645E-03
520617.14	4258870.02	25079.15045	0.16958	0.1088	0.1644	0.11391	4.35E-03	3.98E-07	2.25E-07	3.86E-07	2.24E-07	4.3511E-03
520649.76	4258744.25	25065.4676	0.14517	0.11837	0.14019	0.1227	4.35E-03	3.41E-07	2.43E-07	3.29E-07	2.42E-07	4.3486E-03
520573.86	4258958.89	25060.86971	0.20115	0.10674	0.19428	0.11132	4.35E-03	4.72E-07	2.19E-07	4.56E-07	2.19E-07	4.3481E-03
519931.94	4258791.23	25053.74825	0.59102	0.50842	0.64768	0.48681	4.35E-03	1.39E-06	1.04E-06	1.52E-06	9.58E-07	4.3504E-03
520247.09	4258112.84	25044.22778	0.17184	1.34028	0.17834	1.46587	4.34E-03	4.03E-07	2.75E-06	4.19E-07	2.89E-06	4.3503E-03
520620.68	4258861.59	25036.79454	0.16713	0.11014	0.16196	0.11421	4.34E-03	3.92E-07	2.26E-07	3.80E-07	2.25E-07	4.3437E-03
520650.39	4258718.8	25022.01253	0.1434	0.12117	0.13849	0.12559	4.34E-03	3.37E-07	2.49E-07	3.25E-07	2.47E-07	4.3411E-03
520109.55	4258272.41	25015.16374	0.22984	10.18168	0.23659	11.81758	4.34E-03	5.40E-07	2.09E-05	5.55E-07	2.33E-05	4.3840E-03
520614.91	4258472.67	25010.46701	0.1474	0.15404	0.14302	0.16151	4.34E-03	3.46E-07	3.16E-07	3.36E-07	3.18E-07	4.3393E-03
520624.21	4258853.15	24990.60063	0.16471	0.11047	0.15956	0.1145	4.33E-03	3.87E-07	2.27E-07	3.75E-07	2.25E-07	4.3357E-03
519930.24	4258907.71	24973.60378	0.71111	0.33597	0.7774	0.32949	4.33E-03	1.67E-06	6.89E-07	1.83E-06	6.49E-07	4.3364E-03
520645.72	4258777.83	24959.52114	0.14894	0.11531	0.14379	0.11925	4.33E-03	3.50E-07	2.36E-07	3.38E-07	2.35E-07	4.3303E-03
520627.8	4258377.18	24948.3264	0.1374	0.15381	0.13448	0.16094	4.33E-03	3.23E-07	3.15E-07	3.16E-07	3.17E-07	4.3284E-03
520048.09	4258429.46	24926.58895	0.3737	7.68649	0.402	5.63149	4.32E-03	8.77E-07	1.58E-05	9.44E-07	1.11E-05	4.3521E-03
520620.72	4258436.19	24895.70684	0.14339	0.15353	0.13978	0.16078	4.32E-03	3.37E-07	3.15E-07	3.28E-07	3.16E-07	4.3193E-03
520583.48	4258944.9	24894.1607	0.19393	0.10653	0.1875	0.11106	4.32E-03	4.55E-07	2.18E-07	4.40E-07	2.19E-07	4.3191E-03
520560.44	4258984.46	24880.70023	0.21222	0.10632	0.20468	0.11086	4.32E-03	4.98E-07	2.18E-07	4.81E-07	2.18E-07	4.3169E-03
520631.27	4258836.28	24857.624	0.1599	0.11124	0.15488	0.11515	4.31E-03	3.75E-07	2.28E-07	3.64E-07	2.27E-07	4.3126E-03
520148.89	4258212.53	24834.37366	0.2025	4.21308	0.2044	4.85041	4.31E-03	4.75E-07	8.64E-06	4.80E-07	9.55E-06	4.3266E-03
519957.12	4258683.15	24832.72823	0.57349	0.86143	0.64406	0.80998	4.31E-03	1.35E-06	1.77E-06	1.52E-06	1.59E-06	4.3138E-03
519928.93	4258808.07	24831.65265	0.59318	0.47342	0.64844	0.45453	4.31E-03	1.39E-06	9.71E-07	1.52E-06	8.95E-07	4.3117E-03
519967.12	4258655.32	24827.07198	0.58213	1.02509	0.6592	0.9583	4.31E-03	1.37E-06	2.10E-06	1.55E-06	1.89E-06	4.3130E-03
520085.44	4259168.01	24826.1237	16.35577	0.20779	18.20768	0.19713	4.31E-03	3.84E-05	4.26E-07	4.27E-05	3.88E-07	4.3879E-03
519948.37	4258710.28	24785.83095	0.56826	0.73706	0.63402	0.69765	4.30E-03	1.33E-06	1.51E-06	1.49E-06	1.37E-06	4.3047E-03
520624.09	4258419.17	24775.38042	0.1412	0.15307	0.1378	0.16015	4.30E-03	3.31E-07	3.14E-07	3.24E-07	3.15E-07	4.2985E-03
520618.37	4258455.89	24753.761	0.14525	0.15334	0.14127	0.16073	4.29E-03	3.41E-07	3.14E-07	3.32E-07	3.16E-07	4.2947E-03
520570.23	4258970.4	24725.99414	0.2041	0.10599	0.19705	0.11052	4.29E-03	4.79E-07	2.17E-07	4.63E-07	2.18E-07	4.2900E-03
520634.8	4258827.85	24724.33141	0.15748	0.11145	0.15246	0.11531	4.29E-03	3.70E-07	2.29E-07	3.58E-07	2.27E-07	4.2895E-03
519926.01	4258873.38	24720.75305	0.64709	0.37373	0.70722	0.36353	4.29E-03	1.52E-06	7.66E-07	1.66E-06	7.16E-07	4.2924E-03
520045.38	4259137.25	24723.71213	5.64302	0.21001	7.85107	0.2042	4.29E-03	1.32E-05	4.31E-07	1.84E-05	4.02E-07	4.3190E-03
520009.65	4258560.27	24709.80679	0.63378	2.3707	0.74578	2.06469	4.29E-03	1.49E-06	4.86E-06	1.75E-06	4.06E-06	4.2980E-03
520604.88	4258906.02	24702.69683	0.17853	0.10728	0.17301	0.11159	4.28E-03	4.19E-07	2.20E-07	4.06E-07	2.20E-07	4.2858E-03
520593.1	4258930.83	24684.22782	0.18686	0.10631	0.18087	0.11075	4.28E-03	4.39E-07	2.18E-07	4.25E-07	2.18E-07	4.2827E-03
520055.71	4259147.23	24661.89529	8.13276	0.2086	14.31301	0.20162	4.28E-03	1.91E-05	4.28E-07	3.36E-05	3.97E-07	4.3310E-03
520649.28	4258769.34	24655.61212	0.14673	0.1153	0.14164	0.11931	4.28E-03	3.44E-07	2.36E-07	3.33E-07	2.35E-07	4.2776E-03
520638.33	4258819.41	24640.16403	0.15519	0.11183	0.15022	0.11562	4.27E-03	3.64E-07	2.29E-07	3.53E-07	2.28E-07	4.2746E-03
520622.35	4258210.3	24627.19276	0.1268	0.16582	0.1256	0.17282	4.27E-03	2.98E-07	3.40E-07	2.95E-07	3.40E-07	4.2727E-03
519925.35	4258847.69	24619.03331	0.61555	0.40764	0.67284	0.39412	4.27E-03	1.45E-06	8.36E-07	1.58E-06	7.76E-07	4.2747E-03
520653.34	4258735.69	24591.55001	0.14304	0.11831	0.13822	0.12265	4.27E-03	3.36E-07	2.43E-07	3.24E-07	2.41E-07	4.2664E-03
520651.19	4258692.94	24588.43318	0.1416	0.12394	0.13654	0.1282	4.26E-03	3.32E-07	2.54E-07	3.21E-07	2.52E-07	4.2659E-03
520095.36	4259177.99	24577.28283	12.18774	0.20529	11.44472	0.19376	4.26E-03	2.86E-05	4.21E-07	2.69E-05	3.81E-07	4.3191E-03
520119.4	4258252.44	24576.50676	0.21855	7.71638	0.22316	9.11469	4.26E-03	5.13E-07	1.58E-05	5.24E-07	1.79E-05	4.2975E-03
520627.58	4258402.46	24567.64966	0.13897	0.15243	0.13573	0.1594	4.26E-03	3.26E-07	3.13E-07	3.19E-07	3.14E-07	4.2624E-03
520039.32	4258482.56	24550.56962	0.50121	5.49239	0.55201	4.28891	4.26E-03	1.18E-06	1.13E-05	1.30E-06	8.44E-06	4.2804E-03
519926.52	4258898.73	24528.45038	0.67477	0.34333	0.73685	0.33587	4.25E-03	1.58E-06	7.04E-07	1.73E-06	6.61E-07	4.2590E-03
520054.1	4258397.01	24527.51633	0.12208	10.08846	0.34506	6.87415	4.25E-03	7.56E-07	2.06E-05	8.10E-07	1.35E-05	4.2899E-03
520628.33	4258242.9	24516.09981	0.12751	0.16182	0.12624	0.16813	4.25E-03	2.99E-07	3.32E-07	2.96E-07	3.31E-07	4.2535E-03
520641.86	4258810.98	24515.61659	0.15293	0.11224	0.14802	0.11596	4.25E-03	3.59E-07	2.30E-07	3.48E-07	2.28E-07	4.2533E-03
520631.5	4258361.03	24506.0456	0.1351	0.15263	0.1324	0.15984	4.25E-03	3.17E-07	3.13E-07	3.11E-07	3.15E-07	4.2517E-03
520627.08	4258232.35	24495.32882	0.12707	0.16287	0.12575	0.16927	4.25E-03	2.98E-07	3.34E-07	2.95E-07

520045.81	4259147.25	24058.55565	5.72878	0.20501	8.04072	0.19931	4.17E-03	1.34E-05	4.20E-07	1.89E-05	3.92E-07	4.2060E-03
520656.39	4258752.35	24032.84248	0.14262	0.11551	0.13782	0.11964	4.17E-03	3.35E-07	2.37E-07	3.24E-07	2.36E-07	4.1695E-03
519922.79	4258889.74	24028.62931	0.64009	0.35055	0.69779	0.34207	4.17E-03	1.50E-06	7.19E-07	1.64E-06	6.73E-07	4.1722E-03
520158.75	4258192.57	24016.95309	0.19265	3.60439	0.19402	4.11604	4.17E-03	4.52E-07	7.39E-06	4.50E-07	8.10E-06	4.1820E-03
520578.97	4258966.78	24007.33836	0.19732	0.10448	0.19064	0.1089	4.16E-03	4.63E-07	2.14E-07	4.48E-07	2.14E-07	4.1653E-03
520129.25	4258232.47	24002.65574	0.20783	6.13214	0.21093	7.18204	4.16E-03	4.88E-07	1.26E-05	4.95E-07	1.41E-05	4.1908E-03
520049.63	4258408.85	23979.504	0.33415	8.19372	0.35782	5.94987	4.16E-03	7.84E-07	1.68E-05	8.40E-07	1.17E-05	4.1893E-03
520055.72	4259157.23	23962.05873	8.186	0.20341	14.40907	0.19667	4.16E-03	1.92E-05	4.17E-07	3.38E-05	3.87E-07	4.2100E-03
520621.67	4258464.56	23956.65913	0.14427	0.15115	0.14005	0.15842	4.16E-03	3.39E-07	3.10E-07	3.29E-07	3.12E-07	4.1565E-03
520627.53	4258428.19	23937.11718	0.14035	0.15067	0.13679	0.15767	4.15E-03	3.29E-07	3.09E-07	3.21E-07	3.10E-07	4.1531E-03
520652.46	4258785.68	23931.79361	0.1463	0.11275	0.14145	0.11646	4.15E-03	3.43E-07	2.31E-07	3.32E-07	2.29E-07	4.1520E-03
520635.94	4258346.8	23908.87399	0.1327	0.15104	0.13024	0.15825	4.15E-03	3.12E-07	3.10E-07	3.06E-07	3.12E-07	4.1481E-03
520601.91	4258927.27	23899.05878	0.18099	0.10489	0.17534	0.10919	4.15E-03	4.25E-07	2.15E-07	4.12E-07	2.15E-07	4.1464E-03
520634.84	4258369.79	23890.23928	0.13447	0.15059	0.13157	0.15754	4.14E-03	3.16E-07	3.09E-07	3.09E-07	3.10E-07	4.1449E-03
520054.92	4258386.69	23886.61801	0.30613	10.47884	0.32744	7.09565	4.14E-03	7.19E-07	2.15E-05	7.69E-07	1.40E-05	4.1800E-03
520109.58	4258262.41	23874.45137	0.22059	10.20896	0.22682	11.8116	4.14E-03	5.18E-07	2.09E-05	5.33E-07	2.33E-05	4.1862E-03
520617.26	4258893.69	23866.47322	0.1704	0.10624	0.16529	0.11032	4.14E-03	4.00E-07	2.18E-07	3.88E-07	2.17E-07	4.1408E-03
519979.89	4258618.58	23865.46296	0.57997	1.298	0.66666	1.20137	4.14E-03	1.36E-06	2.66E-06	1.57E-06	2.36E-06	4.1473E-03
520620.91	4258884.98	23863.0545	0.16792	0.10666	0.16291	0.11069	4.14E-03	3.94E-07	2.19E-07	3.82E-07	2.18E-07	4.1402E-03
519928.21	4258782.23	23861.37885	0.55314	0.51518	0.60415	0.49321	4.14E-03	1.30E-06	1.06E-06	1.42E-06	9.71E-07	4.1434E-03
520095.38	4259187.99	23848.69627	12.09062	0.20029	11.40588	0.18916	4.14E-03	2.84E-05	4.11E-07	2.68E-05	3.72E-07	4.1924E-03
520624.55	4258876.26	23848.48276	0.16547	0.10709	0.16054	0.11106	4.14E-03	3.88E-07	2.20E-07	3.77E-07	2.19E-07	4.1376E-03
520029.44	4258511.69	23831.3498	0.56745	4.01668	0.63926	3.29541	4.13E-03	1.33E-06	8.24E-06	1.50E-06	6.49E-06	4.1510E-03
520628.2	4258867.55	23817.37588	0.16304	0.10749	0.15818	0.11141	4.13E-03	3.83E-07	2.20E-07	3.71E-07	2.19E-07	4.1322E-03
519921.56	4258838.55	23813.31155	0.5804	0.41533	0.6325	0.40068	4.13E-03	1.36E-06	8.52E-07	1.48E-06	7.89E-07	4.1348E-03
520630.98	4258411.39	23799.74963	0.1382	0.15013	0.13482	0.15698	4.13E-03	3.24E-07	3.08E-07	3.17E-07	3.09E-07	4.1292E-03
519931.08	4258765.04	23781.9357	0.54647	0.55303	0.59837	0.52853	4.12E-03	1.28E-06	1.13E-06	1.40E-06	1.04E-06	4.1297E-03
519925.23	4258799.15	23776.26634	0.55693	0.48058	0.60712	0.46098	4.12E-03	1.31E-06	9.86E-07	1.43E-06	9.07E-07	4.1285E-03
519957.12	4258673.87	23774.04112	0.55108	0.88625	0.61977	0.83301	4.12E-03	1.29E-06	1.82E-06	1.46E-06	1.64E-06	4.1297E-03
519950.71	4258691.8	23771.34985	0.54647	0.79541	0.60925	0.75182	4.12E-03	1.28E-06	1.63E-06	1.43E-06	1.48E-06	4.1289E-03
520657.61	4258701.55	23767.39848	0.1393	0.12099	0.13453	0.12514	4.12E-03	3.27E-07	2.48E-07	3.16E-07	2.46E-07	4.1235E-03
520631.85	4258858.83	23766.97207	0.16065	0.10781	0.1558	0.11169	4.12E-03	3.77E-07	2.21E-07	3.66E-07	2.20E-07	4.1235E-03
519923.21	4258914.86	23736.79121	0.66493	0.32283	0.72381	0.31675	4.12E-03	1.56E-06	6.62E-07	1.70E-06	6.24E-07	4.1216E-03
520148.93	4258202.53	23730.70544	0.19531	4.21888	0.19684	4.85442	4.12E-03	4.59E-07	8.65E-06	4.62E-07	9.56E-06	4.1351E-03
520635.5	4258850.12	23711.04891	0.15827	0.10816	0.15346	0.11199	4.11E-03	3.72E-07	2.22E-07	3.60E-07	2.20E-07	4.1137E-03
520590.85	4258951.86	23659.68137	0.1887	0.10387	0.18254	0.10822	4.10E-03	4.43E-07	2.13E-07	4.29E-07	2.13E-07	4.1050E-03
520639.15	4258841.4	23640.93291	0.15591	0.10856	0.15117	0.11233	4.10E-03	3.66E-07	2.23E-07	3.55E-07	2.21E-07	4.1016E-03
520631.33	4258214.14	23638.11284	0.12453	0.16075	0.1232	0.16723	4.10E-03	2.92E-07	3.30E-07	2.89E-07	3.29E-07	4.1012E-03
519941.95	4258718.91	23634.55212	0.55931	0.68578	0.5983	0.65103	4.10E-03	1.27E-06	1.41E-06	1.40E-06	1.28E-06	4.1047E-03
520659.94	4258743.86	23618.66812	0.14057	0.11546	0.13592	0.11962	4.10E-03	3.30E-07	2.37E-07	3.19E-07	2.35E-07	4.0977E-03
520064.89	4258352.61	23582.61859	0.27271	20.91151	0.29095	10.16797	4.09E-03	6.40E-07	4.29E-05	6.83E-07	2.00E-05	4.1545E-03
520634.53	4258394.85	23577.00431	0.13601	0.14943	0.13279	0.15619	4.09E-03	3.19E-07	3.06E-07	3.12E-07	3.07E-07	4.0906E-03
520630.06	4258203.59	23569.0063	0.12413	0.16152	0.12292	0.16826	4.09E-03	2.91E-07	3.31E-07	2.89E-07	3.31E-07	4.0892E-03
519922.15	4258815.84	23560.72294	0.55832	0.44895	0.60757	0.43161	4.09E-03	1.31E-06	9.21E-07	1.43E-06	8.50E-07	4.0910E-03
520642.8	4258832.68	23553.50163	0.15358	0.10889	0.14887	0.11259	4.09E-03	3.61E-07	2.23E-07	3.49E-07	2.22E-07	4.0864E-03
520660.51	4258718.58	23533.67206	0.13897	0.11817	0.13438	0.12236	4.08E-03	3.26E-07	2.42E-07	3.15E-07	2.41E-07	4.0829E-03
520577.8	4258977.27	23506.04596	0.19828	0.10335	0.19151	0.1077	4.08E-03	4.65E-07	2.12E-07	4.50E-07	2.12E-07	4.0784E-03
520612	4258913.08	23501.46164	0.17417	0.10466	0.16881	0.10881	4.08E-03	4.09E-07	2.15E-07	3.97E-07	2.14E-07	4.0775E-03
519919.07	4258880.76	23479.78503	0.60704	0.35768	0.66041	0.34812	4.07E-03	1.43E-06	7.34E-07	1.55E-06	6.85E-07	4.0769E-03
520600.58	4258937.82	23479.40125	0.18204	0.10371	0.1763	0.10799	4.07E-03	4.27E-07	2.13E-07	4.14E-07	2.13E-07	4.0737E-03
520207.88	4258132.72	23466.83534	0.17301	1.9515	0.17571	2.16402	4.07E-03	4.06E-07	4.00E-06	4.13E-07	4.26E-06	4.0793E-03
520628.88	4258193.07	23464.91045	0.12371	0.16217	0.12269	0.16921	4.07E-03	2.90E-07	3.33E-07	2.88E-07	3.33E-07	4.0711E-03
520635.85	4258236.11	23458.98373	0.12485	0.15781	0.12349	0.16389	4.07E-03	2.93E-07	3.24E-07	2.90E-07	3.23E-07	4.0701E-03
520188.06	4258142.69	23454.57795	0.17561	2.17096	0.17779	2.41705	4.07E-03	4.12E-07	4.45E-06	4.17E-07	4.76E-06	4.0781E-03
520119.43	4258242.44	23454.04248	0.21009	7.73703	0.21436	9.08695	4.07E-03	4.93E-07	1.59E-05	5.03E-07	1.79E-05	4.1027E-03
519967.12	4258646.05	23448.27507	0.55411	1.04994	0.62504	0.98265	4.07E-03	1.30E-06	2.51E-06	1.47E-06	1.93E-06	4.0739E-03
520646.45	4258823.97	23446.13559	0.15128	0.1092	0.1466	0.11284	4.07E-03	3.55E-07	2.24E-07	3.44E-07	2.22E-07	4.0678E-03
520634.63	4258225.57	23445.70361	0.12442	0.15877	0.12304	0.16494	4.07E-03	2.92E-07	3.26E-07	2.89E-07	3.25E-07	4.0678E-03
520639.88	4258305.41	23431.57207	0.12871	0.15131	0.12722	0.15835	4.06E-03	3.02E-07	3.10E-07	2.99E-07	3.12E-07	4.0653E-03
520637.17	4258246.68	23428.78758	0.12524	0.15669	0.12396	0.16274	4.06E-03	2.94E-07	3.21E-07	2.91E-07	3.20E-07	4.0648E-03
520217.7	4258122.75	23427.25371	0.17034	1.76529	0.17365	1.94858	4.06E-03	4.00E-07	3.62E-06	4.08E-07	3.84E-06	4.0699E-03
520188.24	4258152.66	23415.15872	0.17828	2.43115	0.17996	2.72115	4.06E-03	4.19E-07	4.99E-06	4.22E-07	5.36E-06	4.0724E-03
520045.82	4259157.25	23392.01788	5.78934	0.1999	8.0689	0.1944	4.06E-03	1.36E-05	4.10E-07	1.89E-05	3.83E-07	4.0906E-03
519918.5	4258855.26	23383.66091	0.57885	0.38871	0.62932	0.37622	4.06E-03	1.36E-06	7.97E-07	1.48E-06	7.41E-07	4.0602E-03
520085.48	4259188.01	23378.47815	16.19473	0.1977	18.02497	0.18778	4.05E-03	3.80E-05	4.05E-07	4.23E-05	3.70E-07	4.1360E-03
520139.11	4258212.5	23375.36212	0.19784	5.02977	0.19983	5.83576	4.05E-03	4.64E-07	1.03E-05	4.69E-07	1.15E-05	4.0771E-03
520227.52	4258112.78	23347.50697	0.16773	1.60466	0.17165	1.76506	4.05E-03	3.94E-07	3.29E-06	4.03E-07	3.47E-06	4.0571E-03
520638.6	4258257.31	23344.28834	0.12558	0.15541	0.1244	0.1615	4.05E-03	2.95E-07	3.19E-07	2.92E-07	3.18E-07	4.0502E-03
520587.71	4258963.16	23338.3425	0.19099	0.10306	0.18467	0.10737	4.05E-03	4.48E-07	2.11E-07	4.34E-07	2.11E-07	4.0492E-03
520639.41	4258355.93	23322.97248	0.13211	0.14877	0.12936	0.15575	4.05E-03	3.10E-07	3.05E-07	3.04E-07	3.07E-07	4.0465E-03
520650.1	4258815.25	23316.32291	0.14901	0.10949	0.14435	0.11307	4.04E-03	3.50E-07	2.25E-07	3.39E-07	2.23E-07	4.0452E-03
519919.51	4258905.94	23315.0329	0.63215	0.32951	0.68711	0.32253	4.04E-03	1.48E-06	6.76E-07	1.61E-06	6.35E-07	4.0483E-03
520178.42	4258162.63	23310.2344	0.18087	2.74569	0.18221	3.08811	4.04E-03	4.25E-07	5.63E-06	4.28E-07	6.08E-06	4.0556E-03
520659.52	4258768.81	23297.36592	0.14199	0.11254	0.13722	0.11641	4.04E-03	3.33E-07	2.31E-07	3.22E-07	2.29E-07	4.0419E-03
520055.74	4259167.23	23282.08738	8.30476	0.19836	14.50856	0.19186	4.04E-03	1.95E-05	4.07E-07	3.41E-05	3.78E-07	4.0925E-03
520638.18	4258378.55	23269.19934	0.13382	0.1485	0.13075	0.15524	4.04E-03	3.14E-07	3.05E-07	3.07E-07	3.06E-07	4.0372E-03
520624.97	4258473.23	23231.3259	0.14326	0.14903	0.13879	0.15615	4.03E-03	3.36E-07	3.06E-07	3.26E-07	3.07E-07	4.0306E-03
520640.15	4258267.98	23224.05388	0.1259	0.15394	0.12478	0.16016	4.03E-03	2.96E-07	3.16E-07	2.93E-07	3.15E-07	4.0293E-03
520039.85	4258457.01	23223.5358	0.41853	5.66327	0.45334	4.42804	4.03E-03	9.83E-07	1.16E-05	1.06E-06	8.72E-06	4.0504E-03
520055.59	4258376.43	23199.71239	0.29136	10.82716	0.31116	7.27638	4.02E-03	6.84E-07	2.22E-05	7.31E-07	1.43E-05	4.0618E-03
520168.6	4258172.6	23170.79373	0.1835	3.12981	0.1846	3.54394	4.02E-03	4.31E-07	6.42E-06	4.33E-07	6.98E-06	4.0331E-03
520663.5	4258735.36	23165.31515	0.13858	0.11535	0.13405	0.1195	4.02E-03	3.25E-07	2.37E-07	3.15E-07	2.35E-07	4.0190E-03
520653.75	4258806.54	23161.23668	0.14679	0.10984	0.14219	0.11336	4.02E-03	3.45E-07	2.25E-07	3.34E-07	2.23E-07	4.0183E-03
520610.51	4258923.7	23132.32818	0.17533	0.10351	0.17001	0.10767	4.01E-03	4.12E-07	2.12E-07	3.99E-07	2.12E-07	4.0134E-03
520630.96	4258437.21	23117.84318	0.13946	0.14839	0.13574	0.15532	4.01E-03	3.27E-07	3.04E-07	3.19E-07	3.06E-07	4.0109E-03
520099.76	4258272.38	23114.46709	0.22224	14.5729	0.23022	15.63921	4.01E-03	5.22E-07	2.99E-05	5.40E-07	3.08E-05	4.0708E-03
520661.22	4258692.92	23101.89752	0.13736	0.12073	0.13255	0.12476	4.01E-03	3.22E-07	2.48E-07	3.11E-07	2.46E-07	4.0080E-03
520663.05	4258760.37	23046.75285	0.14009	0.11265	0.13545	0.11659	4.00E-03	3.29E-07	2.31E-07	3.18E-07	2.30E-07	3.9985E-03
520599.35	4258948.34	23031.11502	0.18295	0.10255	0.17713	0.10678	3.99E-03	4.30E-07	2.10E-07	4.16E-07	2.10E-07	3.9959E-03
520634.38	4258420.31	23030.79356	0.13739	0.14788	0.13386	0.15465	3.99E-03	3.23E-07	3.03E-07	3.14E-07	3.04E-07	3.9958E-03
520642.21	4258278.88	23019.32858	0.12609	0.15208	0.12494	0.1585	3.99E-03	2.96E-07	3.12E-07	2.93E-07	3.12E-07	3.9938E-03
520019.52	4258531.13	23005.26402	0.58549	3.07551	0.67301	2.60592	3.99E-03	1.37E-06	6.31E-06	1.58E-06	5.13E-06	4.0046E-03
520094.86	4259199.84	23004.63148	12.10895	0.19453	11.59905	0.1839	3.99E-03	2.84E-05	3.99E-07	2.72E-05	3.62E-07	4.0465E-03
519921.88	4258941.68	22991.56255	0.67611	0.2957	0.73513	0.29139	3.99E-03	1.59E-06	6.06E-07	1.73E-06	5.74E-07	3.9923E-03
519923.78	4258952.46	22977.75188	0.69736	0.28716	0.7587	0.28345	3.99E-03	1.64E-06	5.89E-07	1.78E-06	5.58E-07	3.9900E-03
520657.4	4258797.82	22976.58277	0.1446	0.11003	0.14002	0.11354	3.98E-03	3.39E-07	2.26E-07	3.29E-07	2.24E-07	3.9863E-03
520664.09	4258710.02	22960.30826	0.13701	0.1181	0.1325	0.12216	3.98E-03	3.22E-07	2.42E-07	3.11E-07	2.40E-07	3.9835E-03
520158.78	4258182.57	22957.32893	0.18603	3.61134	0.18711	4.11445	3.98E-03	4.37E-07	7.41E-06	4.39E-07	8.10E-06	3.9982E-03
519917.77	4258829.41	22954.30457	0.54688	0.42243	0.59423	0.40684	3.98E-03	1.28E-06	8.66E-07	1.40E-06	8.01E-07	3.9857E-03
520129.29	4258222.47	22952.70116	0.20021	6.14098	0.20295	7.19255	3.98E-03	4.70E-07	1.26E-05	4.76E-07	1.42E-05	4.0087E-03
520643.29	4258314.37	22936.25512	0.12823	0.1491	0.12649	0.1561	3.98E-03	3.01E-07	3.06E-07	2.97E-07	3.07E-07	3.9794E-03
519932.56	4258744.48	22933.19194	0.52127	0.5962	0.57447	0.56825	3.98E-03	1.22E-06	1.35E-06	1.35E-06	1.12E-06	3.9826E-03
520643.02	4258339.53	22894.76208	0.1299	0.14792	0.12751	0.1549	3.97E-03	3.05E-07	3.03E-07	2.99E-07	3.05E-07	3.9722E-03
519944.62	4258701.24	22891.14518	0.52384	0.73815	0.58109	0.69978	3.97E-03	1.23E-06	1.51E-06	1.36E-06	1.38E-06	3.9759E-03
519915.34	4258871.78	22882.31903	0.5755	0.36453	0.62433	0.35395	3.97E-03	1.35E-06	7.48E-07	1.47E-06	6.97E-07	3.9731E-03
520637.9	4258403.69	22875.89102	0.13528	0.14724	0.13193	0.15387	3.97E-03	3.18E-07	3.02E-07	3.10E-07	3.03E-07	3.9690E-03
520586.48	4258973.68	22859.6558	0.19188	0.10194	0.18545	0.10619	3.96E-03	4.50E-07	2.09E-07	4.35E-07	2.09E-07	3.9662E-03
519915.82	4258897.03	22847.78384	0.60084	0.33616	0.652	0.32821	3.96E-03	1.41E-06	6.89E-07	1.53E-06	6.46E-07	3.9671E-03
520109.62	4258252.41	22839.28243	0.21205	10.22686	0.21773	11.89476	3.96E-03	4.98E-07	2.10E-05	5.11E-07	2.34E-05	4.0068E-03
520661.05	4258789.11	22759.51189	0.14247	0.11009	0.1379	0.11364	3.95E-03	3.34E-07	2.26E-07	3.24E-07	2.24E-07	3.9486E-03
520609.13	4258934.28	22750.83403	0.17638	0.10237	0.17098	0.10651	3.95E-03	4.14E-07	2.10E-07	4.01E-07	2.10E-07	3.9473E-03
520642.89	4258365.05	22730.29148	0.13146	0.1468	0.12852	0.15152	3.94E-03	3.09E-07	3.01E-07	3.02E-07	3.02E-07	3.9437E-03
520624.29	4258900.84	22728.92019	0.1664	0.10365	0.16152	0.1076	3.94E-03	3.91E-07	2.13E-07	3.79E-07	2.12E-07	3.9434E-03
520627.91	4258892.19	22722.89265	0.16406	0.10404	0.15926	0.10793	3.94E-03	3.85E-07	2.13E-07	3.74E-07	2.12E-07	3.9424E-03
520045.84	4259167.25	22722.2932	5.83543	0.19496	8.09977	0.18965	3.94E-03	1.37E-05	4.00E-07	1.90E-05	3.73E-07	3.9746E-03
520631.53	4258883.54	22707.31096	0.16174	0.10444	0.15702	0.10828	3.94E-03	3.80E-07	2.14E-07	3.69E-07	2.13E-07	3.9397E-03
520148.96	4258192.53	22702.01557	0.18853	4.22502	0.18976	4.85807	3.94E-03	4.43E-07	8.67E-06	4.45E-07	9.56E-06	3.9567E-03
520596.45	4258959.54	22697.16735	0.18495	0.10168	0.17895	0.10589	3.94E-03	4.34E-07	2.09E-07	4.20E-07	2.08E-07	3.9380E-03
519957.12	4258664.6	22684.43285	0.52919	0.90952	0.59369	0.85506	3.93E-03	1.24E-06	1.87E-06	1.39E-06	1.68E-06	3.9407E-03
520666.58	4258751.94	22682.96868	0.13811	0.11269	0.13363	0.11666	3.93E-03	3.24E-07	2.31E-07	3.14E-07	2.30E-07	3.9354E-03
519921.53	4258790.23	22682.78212	0.52272	0.48657	0.56813	0.4667	3.93E-03	1.23E-06	9.98E-07	1.33E-06	9.19E-07	3.9387E-03
520635.15	4258874.89	22682.54032	0.15943	0.10484	0.15479	0.10863	3.93E-03	3.74E-07	2.15E-07	3.63E-07	2.14E-07	3.9353E-03
520667.06	4258726.87	22680.44043	0.13666	0.11515	0.1322	0.11926	3.93E-03	3.21E-07	2.36E-07	3.10E-07	2.35E-07	3.9349E-03
520009.61	4258550.57	22660.34989	0.5914	2.41549	0.68775	2.10303	3.93E-03	1.39E-06	4.95E-06	1.61E-06	4.14E-06	3.9424E-03
520638.98	4258207.4	22642.89764	0.12195	0.15663	0.12058	0.16289	3.93E-03	2.86E-07	3.21E-07	2.83E-07	3.21E-07	3.9285E-03
520638.77	4258866.24	22642.40584	0.15715	0.1052	0.15256	0.10894	3.93E-03	3.69E-07	2.16E-07	3.58E-07	2.14E-07	3.9284E-03
520641.51	4258387.31	22639.89524	0.13315	0.14641	0.12994	0.15298	3.93E-03	3.13E-07	3.00E-07	3.05E-07	3.01E-07	3.9280E-03
520640.31	4258217.98	22638.61406	0.12225	0.15587	0.12087	0.16186	3.93E-03	2.87E-07	3.20E-07	2.84E-07	3.19E-07	3.9278E-03
519914.74	4258846.2	22633.51397	0.54687	0.3957	0.59318	0.38216	3.93E-03	1.28E-06	8.12E-07	1.39E-06	7.52E-07	3.9299E-03
519924.47	4258773.22	22632.01581	0.5174	0.52067	0.56341	0.49873	3.93E-03	1.21E-06	1.07E-06	1.32E-06	9.82E-07	3.9300E-03
520055.76	4259177.23	22624.27858	8.37566	0.19355	14.61722	0.18727	3.92E-03	1.97E-05	3.97E-07	3.43E-05	3.69E-07	3.9788E-03
520637.74	4258196.86	22600.652	0.12159	0.15726	0.12033	0.16382	3.92E-03	2.85E-07	3.23E-07	2.82E-07	3.22E-07	3.9212E-03
519918.48	4258807	22590.30133	0.5256	0.45524	0.57041	0.43735	3.92E-03	1.23E-06	9.34E-07	1.34E-06	8.61E-07	3.9226E-03
520642.4	4258857.59	22588.68168	0.15489	0.10543	0.15029	0.10914	3.92E-03	3.64E-07	2.16E-07	3.53E-07	2.15E-07	3.9191E-03
519916.17	4258922	22588.48017	0.62325	0.31049	0.67579	0.30476	3.92E-03	1.46E-06	6.37E-07	1.59E-06	6.00E-07	3.9222E-03
520628.28	4258481.9	22579.9256	0.14222	0.14702	0.13752	0.15394	3.92E-03	3.34E-07	3.02E-07	3.23E-07	3.03E-07	3.9176E-03
520084.96	4259199.85	22561.86465	16.23762	0.19199	18.48339	0.18254	3.91E-03	3.81E-05	3.94E-07	3.54E-05	3.59E-07	3.9955E-03
519935.46	4258727.38	22550.45274	0.51237	0.64005	0.56496	0.60942	3.91E-03	1.20E-06	1.31E-06	1.33E-06	1.20E-06	3.9163E-03
520646.02	4258848.94	22508.05849	0.15262	0.10573	0.14805	0.10939	3.90E-03	3.58E-07	2.17E-07	3.48E-07	2.15E-07	3.9051E-03
520056.13	4258366.21	22491.27721	0.27764	11.12471	0.29615	7.41828	3.90E-03	6.52E-07	2.28E-05	6.95E-07	1.46E-05	3.9398E-03
519999.69	4258570	22491.02055	0.58548	1.94363	0.68423	1.72989	3.90E-03	1.37E-06	3.99E-06	1.61E-06	3.41E-06	3.9113E-03
520207.91	4258122.72	22486.90932	0.16773	1.95411	0.16995	2.16398	3.90E-03	3.94E-07	4.01E-06	3.99E-07	4.26E-06	3.9093E-03
520198.09	4258132.69	22485.08716	0.17021	2.17317	0.1719	2.41859	3.90E-03	4.00E-07	4.46E-06	4.04E-07	4.76E-06	3.9100E-03
520664.69	4258780.39	22470.71961	0.14033	0.10998	0.13576	0.1136	3.90E-03	3.29E-07	2.26E-07	3.19E-07	2.24E-07	3.8985E-03
520217.73	4258112.75	22469.35682	0.16533	1.7671	0.16808	1.94961	3.90E-03	3.88E-07	3.62E-06	3.95E-07	3.84E-06	3.9055E-03
520649.64	4258840.29	22455.16805	0.15042	0.10626	0.14598	0.10984	3.89E-03	3.53E-07	2.18E-07	3.43E-07	2.16E-07	3.8959E-03
520643.35	4258229.3	22448.93518	0.12222	0.154	0.12083	0.1598	3.89E-03	2.87E-07	3.16E-07	2.84E-07	3.15E-07	3.8949E-03
520119.47	4258232.44	22442.70689	0.20227	7.74917	0.20614	9.10789	3.89E-03	4.75E-07	1.59E-05	4.84E-07

520650.45	4258307.3	21950.3704	0.12551	0.14602	0.12386	0.15268	3.81E-03	2.95E-07	2.99E-07	2.91E-07	3.01E-07	3.8084E-03
520084.98	4259209.85	21920.88291	16.0936	0.18749	18.37711	0.17836	3.80E-03	3.78E-05	3.85E-07	4.31E-05	3.51E-07	3.8837E-03
520040.84	4258422.46	21916.90013	0.33981	5.89923	0.36327	4.61787	3.80E-03	7.98E-07	1.21E-05	8.53E-07	9.09E-06	3.8242E-03
519914.74	4258948.73	21904.55547	0.23521	0.2851	0.68615	0.28105	3.80E-03	1.49E-06	5.85E-07	1.61E-06	5.53E-07	3.8035E-03
519938.24	4258709.97	21902.41614	0.49892	0.68741	0.55147	0.65321	3.80E-03	1.17E-06	1.41E-06	1.29E-06	1.29E-06	3.8040E-03
520109.65	4258242.41	21859.06159	0.204	10.25357	0.20927	11.87741	3.79E-03	4.79E-07	2.10E-05	4.91E-07	2.34E-05	3.8367E-03
520671.99	4258762.96	21858.35334	0.13628	10.0986	0.13187	0.11364	3.79E-03	3.20E-07	2.25E-07	3.10E-07	2.24E-07	3.7923E-03
519910.98	4258837.14	21838.90512	0.51646	0.40206	0.55867	0.3877	3.79E-03	1.21E-06	8.25E-07	1.31E-06	7.63E-07	3.7920E-03
520673.65	4258735.07	21816.69491	0.13428	0.11229	0.12997	0.11628	3.78E-03	3.15E-07	2.30E-07	3.05E-07	2.29E-07	3.7851E-03
519947.12	4258683.15	21806.38265	0.50295	0.79367	0.55946	0.75043	3.78E-03	1.18E-06	1.63E-06	1.31E-06	1.48E-06	3.7878E-03
520667.75	4258797.04	21779.9798	0.13981	0.10748	0.13547	0.11085	3.78E-03	3.28E-07	2.20E-07	3.18E-07	2.18E-07	3.7787E-03
519908.43	4258879.21	21774.47485	0.54216	0.34896	0.58575	0.33904	3.78E-03	1.27E-06	7.16E-07	1.38E-06	6.67E-07	3.7807E-03
519908.83	4258904.31	21748.91201	0.56513	0.3227	0.61077	0.31521	3.77E-03	1.33E-06	6.62E-07	1.43E-06	6.20E-07	3.7763E-03
520671.25	4258692.91	21734.91315	0.13327	0.11758	0.12871	0.12141	3.77E-03	3.13E-07	2.41E-07	3.02E-07	2.39E-07	3.7709E-03
520148.99	4258182.53	21734.13692	0.18211	4.23212	0.18311	4.85666	3.77E-03	4.28E-07	8.68E-06	4.30E-07	9.56E-06	3.7888E-03
520646.59	4258200.65	21722.36263	0.11947	0.15263	0.11806	0.15872	3.77E-03	2.80E-07	3.13E-07	2.77E-07	3.12E-07	3.7688E-03
520634.62	4258472.69	21715.82923	0.13941	0.1446	0.13492	0.1514	3.77E-03	3.27E-07	2.97E-07	3.17E-07	2.98E-07	3.7678E-03
520647.89	4258211.22	21701.97585	0.11974	0.15196	0.11831	0.15775	3.76E-03	2.81E-07	3.12E-07	2.78E-07	3.11E-07	3.7653E-03
520616.34	4258941.3	21683.79938	0.1719	0.09993	0.16667	0.10392	3.76E-03	4.04E-07	2.05E-07	3.91E-07	2.05E-07	3.7622E-03
520603.85	4258966.49	21678.15081	0.18004	0.0993	0.17423	0.10334	3.76E-03	4.23E-07	2.04E-07	4.09E-07	2.03E-07	3.7612E-03
520649.28	4258221.83	21675.52869	0.12007	0.15108	0.11863	0.15671	3.76E-03	2.82E-07	3.10E-07	2.79E-07	3.08E-07	3.7607E-03
520095.31	4259220.66	21667.64588	11.78707	0.18528	11.30752	0.17533	3.76E-03	2.77E-05	3.80E-07	2.65E-05	3.45E-07	3.8131E-03
520631.32	4258907.99	21666.69247	0.16249	0.10113	0.15778	0.10496	3.76E-03	3.81E-07	2.07E-07	3.70E-07	2.07E-07	3.7592E-03
520634.91	4258899.4	21661.92698	0.16028	0.10151	0.15565	0.10528	3.76E-03	3.76E-07	2.08E-07	3.65E-07	2.07E-07	3.7583E-03
520638.51	4258890.81	21645.0008	0.15807	0.10188	0.15352	0.1056	3.75E-03	3.71E-07	2.09E-07	3.60E-07	2.08E-07	3.7554E-03
520674.17	4258709.89	21632.43669	0.13291	0.11512	0.12864	0.11897	3.75E-03	3.12E-07	2.36E-07	3.02E-07	2.34E-07	3.7531E-03
520642.11	4258882.22	21621.48989	0.15588	0.10226	0.15141	0.10593	3.75E-03	3.66E-07	2.10E-07	3.55E-07	2.09E-07	3.7513E-03
520046.24	4258390.27	21609.27118	0.29544	7.13838	0.31452	5.41589	3.75E-03	6.94E-07	1.46E-05	7.38E-07	1.07E-05	3.7748E-03
520645.7	4258873.63	21587.55408	0.15371	0.10262	0.1493	0.10624	3.74E-03	3.61E-07	2.10E-07	3.51E-07	2.09E-07	3.7454E-03
520637.83	4258455.25	21584.3424	0.13757	0.14404	0.13347	0.15081	3.74E-03	3.23E-07	2.95E-07	3.13E-07	2.97E-07	3.7449E-03
519914.81	4258798.15	21583.16131	0.49454	0.46059	0.53538	0.44248	3.74E-03	1.16E-06	9.45E-07	1.26E-06	8.71E-07	3.7477E-03
520207.94	4258112.72	21581.23858	0.16276	1.95586	0.16451	2.16442	3.74E-03	3.82E-07	4.01E-06	3.86E-07	4.26E-06	3.7522E-03
519957.12	4258655.32	21579.40761	0.50808	0.93077	0.56808	0.87603	3.74E-03	1.19E-06	1.91E-06	1.33E-06	1.72E-06	3.7490E-03
520198.12	4258122.69	21572.26872	0.16505	2.17512	0.16632	2.4193	3.74E-03	3.87E-07	4.46E-06	3.90E-07	4.76E-06	3.7516E-03
519917.82	4258781.3	21558.25079	0.49044	0.4914	0.53146	0.47164	3.74E-03	1.15E-06	1.01E-06	1.25E-06	9.28E-07	3.7435E-03
520675.64	4258754.24	21552.55334	0.13441	0.10992	0.13014	0.11373	3.74E-03	3.16E-07	2.25E-07	3.06E-07	2.24E-07	3.7393E-03
519907.89	4258853.81	21544.04826	0.51639	0.37739	0.55721	0.36493	3.74E-03	1.21E-06	7.74E-07	1.31E-06	7.18E-07	3.7407E-03
520649.3	4258865.04	21543.46457	0.15157	0.10289	0.14718	0.10648	3.74E-03	3.56E-07	2.11E-07	3.46E-07	2.10E-07	3.7377E-03
520045.87	4259187.25	21536.31597	5.898	0.18593	8.17959	0.18093	3.74E-03	1.38E-05	3.81E-07	1.92E-05	3.56E-07	3.7692E-03
520063.58	4258333.18	21534.87008	0.24735	18.29936	0.26303	9.6878	3.74E-03	5.81E-07	3.75E-05	6.18E-07	1.91E-05	3.7929E-03
520671.37	4258788.38	21532.57284	0.13776	0.10741	0.13341	0.11084	3.73E-03	3.23E-07	2.20E-07	3.13E-07	2.18E-07	3.7358E-03
520188.3	4258132.66	21528.64559	0.16736	2.43547	0.16822	2.72473	3.73E-03	3.93E-07	4.99E-06	3.95E-07	5.36E-06	3.7452E-03
520641.17	4258438.16	21528.23171	0.13568	0.14354	0.13188	0.15018	3.73E-03	3.19E-07	2.94E-07	3.10E-07	2.96E-07	3.7352E-03
519928.92	4258735.72	21524.73295	0.48705	0.5992	0.53411	0.57204	3.73E-03	1.14E-06	1.23E-06	1.25E-06	1.13E-06	3.7381E-03
519909	4258928.82	21509.18344	0.58455	0.29913	0.63157	0.29367	3.73E-03	1.37E-06	6.13E-07	1.48E-06	5.78E-07	3.7347E-03
520653.83	4258316.18	21508.93212	0.12508	0.14383	0.12311	0.15047	3.73E-03	2.94E-07	2.95E-07	2.89E-07	2.96E-07	3.7318E-03
520119.5	4258222.44	21504.06249	0.19495	7.762	0.19845	9.13619	3.73E-03	4.58E-07	1.59E-05	4.66E-07	1.80E-05	3.7646E-03
520652.9	4258856.44	21488.47926	0.14942	0.10317	0.14506	0.10672	3.73E-03	3.51E-07	2.12E-07	3.41E-07	2.10E-07	3.7282E-03
520032.83	4258474.07	21478.54246	0.44214	4.54755	0.48265	3.67788	3.73E-03	1.04E-06	9.33E-06	1.13E-06	7.24E-06	3.7441E-03
520652.07	4258233.03	21471.25971	0.12005	0.14934	0.11867	0.15485	3.72E-03	2.82E-07	3.06E-07	2.79E-07	3.05E-07	3.7253E-03
520654.25	4258291.42	21459.16066	0.12334	0.1451	0.12195	0.15142	3.72E-03	2.90E-07	2.88E-07	2.86E-07	2.98E-07	3.7232E-03
520029.36	4258492.3	21456.00994	0.48734	4.0818	0.53773	3.35986	3.72E-03	1.14E-06	8.37E-06	1.26E-06	6.61E-06	3.7388E-03
520656.5	4258847.85	21427.75959	0.14731	0.10363	0.14306	0.1071	3.72E-03	3.46E-07	2.13E-07	3.36E-07	2.11E-07	3.7177E-03
520139.17	4258192.5	21423.74751	0.18428	5.04568	0.18574	5.8407	3.72E-03	4.33E-07	1.03E-05	4.36E-07	1.15E-05	3.7386E-03
520178.48	4258142.63	21413.88246	0.16955	2.75115	0.17018	3.0912	3.71E-03	3.98E-07	5.64E-06	4.00E-07	6.08E-06	3.7267E-03
520613.93	4258952.31	21406.69531	0.17348	0.09907	0.16812	0.10305	3.71E-03	4.07E-07	2.03E-07	3.95E-07	2.03E-07	3.7141E-03
520653.41	4258243.62	21391.93252	0.12038	0.14826	0.11909	0.15378	3.71E-03	2.83E-07	3.04E-07	2.80E-07	3.03E-07	3.7115E-03
519920.74	4258764.21	21378.58328	0.48382	0.52504	0.52567	0.50332	3.71E-03	1.14E-06	1.08E-06	1.23E-06	9.91E-07	3.7125E-03
520677.18	4258726.64	21365.75251	0.13246	0.11222	0.12826	0.11614	3.71E-03	3.11E-07	2.30E-07	3.01E-07	2.29E-07	3.7069E-03
520660.09	4258839.26	21355.18312	0.1452	0.10405	0.14105	0.10744	3.70E-03	3.41E-07	2.13E-07	3.31E-07	2.11E-07	3.7051E-03
520626.23	4258927.2	21347.25164	0.16577	0.09967	0.16086	0.10355	3.70E-03	3.89E-07	2.04E-07	3.78E-07	2.04E-07	3.7038E-03
520036.38	4258441.17	21312.87662	0.36748	5.1098	0.39463	4.09337	3.70E-03	8.63E-07	1.05E-05	9.26E-07	8.06E-06	3.7169E-03
520019.48	4258521.43	21312.1974	0.54311	3.11741	0.61576	2.64249	3.70E-03	1.28E-06	6.39E-06	1.45E-06	5.20E-06	3.7108E-03
520654.85	4258254.25	21287.27911	0.12069	0.14701	0.11947	0.15264	3.69E-03	2.83E-07	3.02E-07	2.80E-07	3.00E-07	3.6933E-03
520674.99	4258779.73	21278.33961	0.13578	0.10739	0.13149	0.11089	3.69E-03	3.19E-07	2.20E-07	3.09E-07	2.18E-07	3.6917E-03
520085.41	4259220.68	21274.03973	15.74677	0.18291	17.82027	0.17407	3.69E-03	3.70E-05	3.75E-07	4.18E-05	3.43E-07	3.7694E-03
519905.17	4258895.46	21266.79744	0.53782	0.32873	0.58031	0.32029	3.69E-03	1.26E-06	6.74E-07	1.36E-06	6.30E-07	3.6926E-03
520168.66	4258152.6	21260.04375	0.17174	3.13782	0.17227	3.54327	3.69E-03	4.03E-07	6.44E-06	4.04E-07	6.97E-06	3.7017E-03
520663.69	4258830.67	21259.57254	0.14314	0.10435	0.13901	0.10767	3.69E-03	3.36E-07	2.14E-07	3.26E-07	2.12E-07	3.6885E-03
520055.26	4259199.9	21237.40478	8.3029	0.18328	14.25239	0.1775	3.68E-03	1.95E-05	3.76E-07	3.35E-05	3.49E-07	3.7372E-03
520099.83	4258252.38	21206.84799	0.20533	14.65645	0.21217	15.72365	3.68E-03	4.82E-07	3.01E-05	4.98E-07	3.10E-05	3.7402E-03
519904.73	4258870.3	21171.6787	0.51471	0.35488	0.55452	0.3441	3.67E-03	1.21E-06	7.28E-07	1.30E-06	6.77E-07	3.6760E-03
520679.29	4258745.53	21167.35049	0.1325	0.1099	0.12839	0.11372	3.67E-03	3.11E-07	2.25E-07	3.01E-07	2.24E-07	3.6724E-03
520656.41	4258264.93	21144.38484	0.12097	0.14563	0.11976	0.15141	3.67E-03	2.84E-07	2.99E-07	2.81E-07	2.98E-07	3.6686E-03
520667.29	4258822.08	21144.16031	0.14113	0.10449	0.13696	0.10777	3.67E-03	3.31E-07	2.14E-07	3.22E-07	2.12E-07	3.6684E-03
520047.06	4258379.95	21139.65758	0.2817	7.35746	0.29957	5.55724	3.67E-03	6.61E-07	1.51E-05	7.03E-07	1.09E-05	3.6940E-03
519905.23	4258919.72	21116.96492	0.55669	0.30497	0.60048	0.29867	3.66E-03	1.31E-06	6.25E-07	1.41E-06	5.88E-07	3.6666E-03
519910.19	4258811.13	21106.0122	0.48483	0.43419	0.52373	0.41766	3.66E-03	1.14E-06	8.90E-07	1.23E-06	8.22E-07	3.6648E-03
520638.09	4258481.82	21090.89776	0.13835	0.14258	0.13364	0.14919	3.66E-03	3.25E-07	2.92E-07	3.14E-07	2.94E-07	3.6593E-03
520677.72	4258701.39	21074.3778	0.13113	0.11497	0.12687	0.1187	3.66E-03	3.08E-07	2.36E-07	2.98E-07	2.34E-07	3.6563E-03
520158.84	4258162.57	21071.20597	0.17393	3.62043	0.1745	4.11545	3.65E-03	4.08E-07	7.43E-06	4.10E-07	8.10E-06	3.6710E-03
520095.33	4259230.66	21057.33166	11.72894	0.18105	11.2421	0.17142	3.65E-03	2.75E-05	3.71E-07	2.64E-05	3.37E-07	3.7069E-03
520129.35	4258202.47	21054.06771	0.18628	6.16192	0.18848	7.19834	3.65E-03	4.37E-07	1.26E-05	4.42E-07	1.42E-05	3.6794E-03
520657.61	4258300.24	21052.4063	0.12295	0.14289	0.12131	0.14929	3.65E-03	2.89E-07	2.93E-07	2.85E-07	2.94E-07	3.6526E-03
520612.53	4258962.89	21047.85431	0.1744	0.09802	0.16888	0.10196	3.65E-03	4.09E-07	2.01E-07	3.96E-07	2.01E-07	3.6519E-03
519940.87	4258692.19	21026.70548	0.48269	0.73699	0.53331	0.69943	3.65E-03	1.13E-06	1.51E-06	1.25E-06	1.38E-06	3.6523E-03
520624.84	4258937.78	21023.17104	0.1667	0.09861	0.16169	0.10248	3.65E-03	3.91E-07	2.02E-07	3.80E-07	2.02E-07	3.6475E-03
519907.23	4258828.09	21005.69673	0.48758	0.4077	0.52597	0.39282	3.64E-03	1.14E-06	8.36E-07	1.23E-06	7.73E-07	3.6473E-03
520678.62	4258771.08	21000.63915	0.13386	0.10734	0.12964	0.11091	3.64E-03	3.14E-07	2.20E-07	3.04E-07	2.18E-07	3.6435E-03
520670.88	4258813.49	20983.85832	0.13909	0.10465	0.13492	0.1079	3.64E-03	3.27E-07	2.15E-07	3.17E-07	2.12E-07	3.6406E-03
519931.79	4258718.53	20969.0141	0.47566	0.64186	0.52312	0.61159	3.64E-03	1.12E-06	1.32E-06	1.23E-06	1.20E-06	3.6418E-03
519923.53	4258746.84	20968.54431	0.47286	0.56176	0.51725	0.53714	3.64E-03	1.11E-06	1.15E-06	1.21E-06	1.06E-06	3.6414E-03
520109.68	4258232.41	20963.87994	0.19654	10.27337	0.20136	11.9517	3.64E-03	4.61E-07	2.11E-05	4.73E-07	2.35E-05	3.6816E-03
520656.94	4258350.21	20938.84714	0.12605	0.14094	0.12322	0.14726	3.63E-03	2.96E-07	2.89E-07	2.89E-07	2.90E-07	3.6329E-03
520653.31	4258392.43	20901.49855	0.1294	0.14064	0.12604	0.14682	3.63E-03	3.04E-07	2.88E-07	2.96E-07	2.89E-07	3.6264E-03
520641.26	4258464.26	20897.25349	0.13659	0.14207	0.13228	0.14871	3.62E-03	3.21E-07	2.91E-07	3.11E-07	2.93E-07	3.6257E-03
520009.56	4258540.87	20866.49543	0.55231	2.45583	0.63502	2.13794	3.62E-03	1.30E-06	5.04E-06	1.49E-06	4.21E-06	3.6312E-03
520674.48	4258804.9	20852.55573	0.13716	0.10488	0.13302	0.1081	3.62E-03	3.22E-07	2.15E-07	3.12E-07	2.13E-07	3.6178E-03
520655.45	4258204.44	20845.08248	0.11737	0.14816	0.11585	0.15381	3.62E-03	2.76E-07	3.04E-07	2.72E-07	3.03E-07	3.6166E-03
519947.12	4258673.87	20842.58495	0.48421	0.81349	0.53777	0.76919	3.62E-03	1.14E-06	1.67E-06	1.26E-06	1.51E-06	3.6206E-03
520149.02	4258172.53	20837.37993	0.17607	4.23751	0.17685	4.85736	3.61E-03	4.13E-07	8.69E-06	4.15E-07	9.56E-06	3.6332E-03
520656.81	4258215.03	20811.30406	0.11767	0.14736	0.11615	0.15283	3.61E-03	2.76E-07	3.02E-07	2.73E-07	3.01E-07	3.6108E-03
519904.17	4258844.83	20808.95654	0.48874	0.38316	0.52614	0.36998	3.61E-03	1.15E-06	7.86E-07	1.24E-06	7.28E-07	3.6131E-03
520063.96	4258323.03	20793.6551	0.23693	18.78887	0.25158	9.82144	3.61E-03	5.56E-07	3.85E-05	5.91E-07	1.93E-05	3.6656E-03
520045.36	4259199.92	20784.36055	5.85024	0.18034	8.03087	0.17558	3.60E-03	1.37E-05	3.70E-07	1.89E-05	3.46E-07	3.6385E-03
520029.32	4258482.6	20768.00252	0.45428	4.11072	0.49767	3.37868	3.60E-03	1.07E-06	8.43E-06	1.17E-06	6.65E-06	3.6194E-03
520622.67	4258948.69	20754.61656	0.16807	0.0977	0.16292	0.10157	3.60E-03	3.95E-07	2.00E-07	3.82E-07	2.00E-07	3.6010E-03
520682.94	4258736.81	20750.97498	0.13067	0.10973	0.12665	0.11354	3.60E-03	3.07E-07	2.25E-07	2.97E-07	2.24E-07	3.6002E-03
520658.26	4258225.67	20745.5361	0.11795	0.14641	0.11648	0.15178	3.60E-03	2.77E-07	3.00E-07	2.73E-07	2.99E-07	3.5994E-03
519901.5	4258886.61	20743.64558	0.51165	0.33448	0.55083	0.32515	3.60E-03	1.20E-06	6.86E-07	1.29E-06	6.40E-07	3.6017E-03
520198.15	4258112.69	20710.70292	0.16013	2.17684	0.16104	2.41905	3.59E-03	3.76E-07	4.46E-06	3.78E-07	4.76E-06	3.6022E-03
520682.24	4258762.43	20699.24892	0.13201	0.10727	0.12789	0.11091	3.59E-03	3.10E-07	2.20E-07	3.00E-07	2.18E-07	3.5912E-03
520656.79	4258375.69	20698.62791	0.12743	0.13995	0.12422	0.14606	3.59E-03	2.99E-07	2.87E-07	2.92E-07	2.88E-07	3.5912E-03
519999.65	4258560.31	20695.50058	0.55058	1.98023	0.63651	1.76235	3.59E-03	1.29E-06	4.06E-06	1.49E-06	3.47E-06	3.5999E-03
519901.45	4258910.62	20682.46033	0.5299	0.31075	0.57056	0.30357	3.59E-03	1.24E-06	6.37E-07	1.34E-06	5.98E-07	3.5911E-03
520638.35	4258915.13	20677.68898	0.15866	0.09872	0.15407	0.10242	3.59E-03	3.72E-07	2.02E-07	3.62E-07	2.02E-07	3.5876E-03
520085.43	4259230.68	20675.7744	15.79691	0.17873	17.66177	0.17018	3.59E-03	3.71E-05	3.67E-07	4.15E-05	3.35E-07	3.6654E-03
519989.73	4258579.74	20674.37442	0.54068	1.62784	0.62715	1.47508	3.59E-03	1.27E-06	3.44E-06	1.47E-06	3.34E-06	3.5949E-03
520188.33	4258122.66	20672.90001	0.16231	2.43701	0.16282	2.72582	3.59E-03	3.81E-07	5.00E-06	3.82E-07	5.37E-06	3.5967E-03
520641.92	4258906.59	20672.10396	0.15656	0.09908	0.15206	0.10273	3.59E-03	3.68E-07	2.03E-07	3.57E-07	2.02E-07	3.5866E-03
520678.08	4258796.31	20667.84733	0.13523	0.10498	0.13112	0.10822	3.58E-03	3.17E-07	2.15E-07	3.08E-07	2.13E-07	3.5858E-03
520055.28	4259209.9	20666.86716	8.32508	0.17911	14.36016	0.17351	3.58E-03	1.95E-05	3.67E-07	3.37E-05	3.42E-07	3.6385E-03
519979.81	4258599.18	20656.42493	0.52484	1.35722	0.60391	1.2525	3.58E-03	1.23E-06	2.78E-06	1.42E-06	2.47E-06	3.5907E-03
520645.5	4258898.06	20656.14146	0.15445	0.09944	0.15005	0.10304	3.58E-03	3.63E-07	2.04E-07	3.52E-07	2.03E-07	3.5838E-03
520660.97	4258309.06	20648.18784	0.12254	0.14075	0.1206	0.14717	3.58E-03	2.88E-07	2.89E-07	2.83E-07	2.90E-07	3.5825E-03
520649.07	4258889.52	20635.82308	0.15239	0.09981	0.14806	0.10336	3.58E-03	3.58E-07	2.05E-07	3.48E-07	2.03E-07	3.5803E-03
520047.74	4258369.68	20632.10161	0.26897	7.54648	0.28579	5.67799	3.58E-03	6.31E-07	1.55E-05	6.71E-07	1.12E-05	3.6065E-03
520119.53	4258212.44	20618.41027	0.18804	7.77724	0.19126	9.13248	3.58E-03	4.41E-07	1.60E-05	4.49E-07	1.80E-05	3.6110E-03
520652.65	4258880.99	20607.97794	0.15031	0.10018	0.14607	0.10368	3.57E-03	3.53E-07	2.05E-07	3.43E-07	2.04E-07	3.5755E-03
520661.58	4258284.79	20584.51992	0.12084	0.14186	0.11942	0.14794	3.57E-03	2.84E-07	2.91E-07	2.80E-07	2.91E-07	3.5714E-03
520178.51	4258132.63	20567.69602	0.16438	2.75241	0.16468	3.09419	3.57E-03	3.86E-07	5.64E-06	3.87E-07	6.09E-06	3.5799E-03
520656.22	4258872.46	20566.31483	0.14828	0.10047	0.14407	0.10394	3.57E-03	3.48E-07	2.06E-07	3.38E-07	2.05E-07	3.5682E-03
520054.26	4258347.01	20563.43368	0.25083	10.03674	0.26679	6.94661	3.57E-03	5.89E-07	2.06E-05	6.26E-07	1.37E-05	3.6021E-03
519911.14	4258788.3	20557.36981	0.46546	0.46481	0.50223	0.44693	3.57E-03	1.09E-06	9.53E-07	1.18E-06	8.80E-07	3.5697E-03
520660.79	4258236.77	20553.36257	0.11801	0.14477	0.11659	0.15013	3.56E-03	2.77E-07	2.97E-07	2.74E-07	2.96E-07	3.5660E-03
520139.2	4258182.5	20542.31207	0.17807	5.05349	0.17933	5.83902	3.56E-03	4.18E-07	1.04E-05	4.21E-07	1.15E-05	3.5857E-03
519901.03	4258861.38	20528.6378	0.48836	0.36049	0.52475	0.34896	3.56E-03	1.15E-06	7.39E-07	1.23E-06	6.87E-07	3.5644E-03
519969.89	4258618.62	20527.1137	0.5065	1.15231	0.57411	1.0773	3.56E-03	1.19E-06	2.36E-06	1.35E-06	2.12E-06	3.5674E-03
520659.79	4258863.92	20521.40625	0.14625	0.10076	0.14209	0.10419	3.56E-03	3.43E-07	2.07E-07	3.34E-07	2.05E-07	3.5604E-03
520032.97	4258449.47	20520.88154	0.37658	4.61742	0.40539	3.75703	3.56E-03	8.84E-07	9.47E-06	9.52E-07	7.40E-06	3.5780E-03
519901.96	4258935.97	20515.18549	0.55024	0.2883	0.59299	0.28306	3.56E-03	1.29E-06	5.91E-07	1.39E-06	5.57E-07	3.5621E-03
520681.28	4258692.9	20497.21156	0.1294	0.1147	0.1251	0.11832	3.56E-03	3.04E-07	2.35E-07	2.94E-07	2.33E-07	3.5562E-03
520095.34	4259240.66	20471.17866	11.68977	0.17698	11.17173	0.16766	3.55E-03	2.74E-05	3.63E-07	2.62E-05	3.30E-07	3.6050E-03
520663.37	4258855.39	20466.87288	0.14423	0.10117	0.14016	0.10463	3.55E-03	3.39E-07	2.07E-07	3.29E-07	2.06E-07	3.5510E-03
519957.12	4258646.05	20452.06007	0.48759	0.95035	0.54413	0.89559	3.55E-03	1.14E-06	1.95E-06	1.28E-06	1.76E-06	3.5535E-03
520662.19	4258247.38	20451.52988	0.11831	0.14362	0.11697	0.14906	3.55E-03	2.78E-07	2.95E-07	2.75E-07	2.93E-07	3.5484E-03
520681.67	4258787.72	20445.50447	0.13134	0.10498	0.12925	0.10828	3.55E-03	3.13E-07	2.15E-07	3.03E-07	2.13E-07	3.5472E-03
520660.35	4258359.17	20434.42235	0.12545	0.13905	0.12243	0.14516	3.54E-03	2.95E-07	2.85

520664.31	4258208.23	19999.23357	0.11534	0.14378	0.11374	0.14911	3.47E-03	2.71E-07	2.95E-07	2.67E-07	2.94E-07	3.4699E-03
520681.23	4258812.71	19969.67304	0.13453	0.1024	0.13058	0.10549	3.46E-03	3.16E-07	2.10E-07	3.07E-07	2.08E-07	3.4647E-03
520054.84	4258336.79	19963.55788	0.24036	10.30052	0.25539	7.09594	3.46E-03	5.64E-07	2.11E-05	6.00E-07	1.40E-05	3.4988E-03
520665.72	4258218.85	19938.13237	0.11563	0.1409	0.11405	0.14813	3.46E-03	2.71E-07	2.93E-07	2.68E-07	2.92E-07	3.4593E-03
520663.76	4258368.13	19929.14063	0.12484	0.13717	0.12166	0.1431	3.46E-03	2.93E-07	2.81E-07	2.86E-07	2.82E-07	3.4578E-03
520684.84	4258684.41	19907.5946	0.1277	0.11448	0.12338	0.11801	3.45E-03	3.00E-07	2.35E-07	2.90E-07	2.32E-07	3.4539E-03
520095.36	4259250.66	19905.24901	11.69115	0.12304	11.0871	0.16403	3.45E-03	2.74E-05	3.55E-07	2.60E-05	3.23E-07	3.5066E-03
520688.87	4258770.54	19893.29917	0.12963	0.1048	0.12567	0.10825	3.45E-03	3.04E-07	2.15E-07	2.95E-07	2.13E-07	3.4514E-03
520687.77	4258701.33	19892.43439	0.12729	0.11218	0.12329	0.1157	3.45E-03	2.99E-07	2.30E-07	2.89E-07	2.28E-07	3.4513E-03
519947.12	4258664.6	19862.53455	0.46602	0.83188	0.51656	0.78703	3.45E-03	1.09E-06	1.71E-06	1.21E-06	1.55E-06	3.4506E-03
520667.24	4258229.51	19859.70174	0.11593	0.14183	0.11439	0.14707	3.44E-03	2.72E-07	2.91E-07	2.69E-07	2.90E-07	3.4457E-03
520188.36	4258112.66	19854.56096	0.15745	2.43901	0.15771	2.72446	3.44E-03	3.70E-07	5.00E-06	3.70E-07	5.36E-06	3.4548E-03
519897.34	4258852.47	19849.95687	0.4632	0.36565	0.49644	0.35352	3.44E-03	1.09E-06	7.50E-07	1.17E-06	6.96E-07	3.4466E-03
520690.24	4258719.38	19839.74301	0.12712	0.10958	0.12327	0.1132	3.44E-03	2.98E-07	2.25E-07	2.89E-07	2.23E-07	3.4421E-03
520629.9	4258955.7	19822.08149	0.16379	0.09537	0.15868	0.09911	3.44E-03	3.85E-07	1.96E-07	3.73E-07	1.95E-07	3.4392E-03
520668.53	4258303.05	19804.98978	0.12007	0.13738	0.11808	0.14362	3.44E-03	2.82E-07	2.82E-07	2.77E-07	2.83E-07	3.4362E-03
520684.81	4258804.18	19796.43829	0.13266	0.1025	0.12873	0.1056	3.43E-03	3.11E-07	2.10E-07	3.02E-07	2.08E-07	3.4346E-03
520668.77	4258277.8	19796.2655	0.11849	0.13874	0.11699	0.14463	3.43E-03	2.78E-07	2.85E-07	2.75E-07	2.85E-07	3.4347E-03
520119.56	4258202.44	19792.77796	0.18156	7.79141	0.18451	9.1313	3.43E-03	4.26E-07	1.60E-05	4.33E-07	1.80E-05	3.4678E-03
520178.54	4258122.63	19770.45398	0.15945	2.75337	0.15947	3.09617	3.43E-03	3.74E-07	5.65E-06	3.74E-07	6.09E-06	3.4416E-03
520645.39	4258922.27	19752.40743	0.15491	0.09637	0.15038	0.09995	3.43E-03	3.64E-07	1.98E-07	3.53E-07	1.97E-07	3.4271E-03
520648.94	4258913.78	19746.26371	0.15291	0.09672	0.14849	0.10026	3.42E-03	3.59E-07	1.98E-07	3.49E-07	1.97E-07	3.4260E-03
519894.48	4258917.91	19738.25108	0.50055	0.29893	0.53727	0.2921	3.42E-03	1.18E-06	6.13E-07	1.26E-06	5.75E-07	3.4271E-03
520652.49	4258905.3	19732.55642	0.15093	0.09708	0.14661	0.10057	3.42E-03	3.54E-07	1.99E-07	3.44E-07	1.98E-07	3.4236E-03
520139.23	4258172.5	19732.20315	0.17226	5.05745	0.1733	5.84905	3.42E-03	4.04E-07	1.04E-05	4.07E-07	1.15E-05	3.4452E-03
520045.81	4259219.92	19730.08532	5.98326	0.17245	8.27515	0.16793	3.42E-03	1.40E-05	3.54E-07	1.94E-05	3.31E-07	3.4563E-03
520036.34	4258404.35	19727.09991	0.29839	5.13151	0.31683	4.15242	3.42E-03	7.01E-07	1.05E-05	7.44E-07	8.17E-06	3.4417E-03
520656.04	4258896.82	19713.73734	0.14895	0.09744	0.14472	0.10088	3.42E-03	3.50E-07	2.00E-07	3.40E-07	1.99E-07	3.4203E-03
520648.13	4258482.3	19711.298	0.13454	0.13846	0.12989	0.14472	3.42E-03	3.16E-07	2.84E-07	3.05E-07	2.85E-07	3.4200E-03
519893.91	4258892.43	19695.57417	0.47962	0.32181	0.5143	0.31289	3.42E-03	1.13E-06	6.60E-07	1.21E-06	6.16E-07	3.4197E-03
520659.59	4258888.33	19689.24808	0.14699	0.0978	0.14285	0.10119	3.42E-03	3.45E-07	2.01E-07	3.35E-07	1.99E-07	3.4161E-03
520669.52	4258240.5	19683.25469	0.11605	0.14026	0.11455	0.14559	3.41E-03	2.72E-07	2.88E-07	2.69E-07	2.87E-07	3.4151E-03
520684.89	4258674.93	19668.31814	0.12727	0.11517	0.1228	0.11872	3.41E-03	2.99E-07	2.36E-07	2.88E-07	2.34E-07	3.4124E-03
520667.37	4258351.74	19666.19584	0.12293	0.13621	0.11993	0.14216	3.41E-03	2.89E-07	2.79E-07	2.82E-07	2.80E-07	3.4121E-03
520663.15	4258879.85	19659.28056	0.14502	0.09816	0.14099	0.1015	3.41E-03	3.40E-07	2.01E-07	3.31E-07	2.00E-07	3.4109E-03
520660.26	4258410.69	19636.75726	0.12787	0.13671	0.12435	0.14269	3.41E-03	3.00E-07	2.80E-07	2.92E-07	2.81E-07	3.4071E-03
520693.1	4258736.48	19632.33065	0.1267	0.10724	0.12299	0.11084	3.41E-03	2.97E-07	2.20E-07	2.89E-07	2.18E-07	3.4062E-03
520168.72	4258132.6	19625.39065	0.16133	3.1407	0.16133	3.55034	3.40E-03	3.79E-07	6.44E-06	3.79E-07	6.99E-06	3.4181E-03
520692.46	4258761.95	19623.05703	0.12792	0.10477	0.12407	0.10827	3.40E-03	3.00E-07	2.15E-07	2.91E-07	2.13E-07	3.4045E-03
520666.7	4258871.37	19612.97495	0.14311	0.0984	0.13909	0.10171	3.40E-03	3.36E-07	2.02E-07	3.27E-07	2.00E-07	3.4028E-03
520055.72	4259229.9	19602.9869	8.55555	0.17129	15.13791	0.16599	3.40E-03	2.01E-05	3.51E-07	3.55E-05	3.27E-07	3.4564E-03
519919.76	4258737.74	19592.64565	0.44084	0.56397	0.48107	0.53973	3.40E-03	1.03E-06	1.16E-06	1.13E-06	1.06E-06	3.4026E-03
520688.38	4258795.64	19592.12583	0.13082	0.10252	0.1269	0.10565	3.40E-03	3.07E-07	2.10E-07	2.98E-07	2.08E-07	3.3992E-03
519894.16	4258868.92	19585.11416	0.46259	0.3449	0.4953	0.33414	3.40E-03	1.09E-06	7.07E-07	1.16E-06	6.58E-07	3.4006E-03
520670.25	4258862.89	19565.61031	0.1412	0.09873	0.13724	0.10199	3.39E-03	3.31E-07	2.02E-07	3.22E-07	2.01E-07	3.3946E-03
520663.67	4258393.76	19564.01361	0.12606	0.13604	0.12264	0.14192	3.39E-03	2.96E-07	2.79E-07	2.88E-07	2.79E-07	3.3944E-03
520085.46	4259250.68	19563.18816	15.66186	0.17087	17.2853	0.16287	3.39E-03	3.68E-05	3.50E-07	4.06E-05	3.21E-07	3.4712E-03
520099.89	4258232.38	19556.62523	0.19058	14.7417	15.88256	3.39E-03	4.47E-07	3.02E-05	4.61E-07	3.13E-05	4.54E-03	
520670.97	4258251.13	19553.14054	0.11631	0.13909	0.11486	0.14453	3.39E-03	2.73E-07	2.85E-07	2.70E-07	2.85E-07	3.3925E-03
520037.55	4258393.86	19538.64378	0.28501	5.32387	0.30216	4.28954	3.39E-03	6.69E-07	1.09E-05	7.09E-07	8.44E-06	3.4096E-03
520651.36	4258464.93	19528.33809	0.13286	0.13779	0.12857	0.1441	3.39E-03	3.12E-07	2.83E-07	3.02E-07	2.84E-07	3.3883E-03
520673.8	4258854.4	19509.32005	0.13929	0.09907	0.13541	0.10227	3.38E-03	3.27E-07	2.03E-07	3.18E-07	2.01E-07	3.3849E-03
519907.47	4258780.46	19505.3606	0.43782	0.46825	0.47147	0.45066	3.38E-03	1.03E-06	9.60E-07	1.11E-06	8.87E-07	3.3871E-03
520640.15	4258941.45	19496.06371	0.15792	0.09506	0.15313	0.0987	3.38E-03	3.71E-07	1.95E-07	3.60E-07	1.94E-07	3.3826E-03
520033.64	4258415.45	19491.94429	0.31093	4.74342	0.33078	3.87537	3.38E-03	7.30E-07	7.77E-07	7.47E-07	7.63E-06	3.3997E-03
519928.13	4258709.69	19453.45345	0.44275	0.64164	0.48445	0.61235	3.37E-03	1.04E-06	1.32E-06	1.14E-06	1.21E-06	3.3788E-03
520677.35	4258845.92	19441.29684	0.13742	0.09936	0.13358	0.10249	3.37E-03	3.23E-07	2.04E-07	3.14E-07	2.02E-07	3.3730E-03
520158.9	4258142.57	19433.11661	0.16316	3.62597	0.1633	4.11823	3.37E-03	3.83E-07	7.44E-06	3.83E-07	8.11E-06	3.3869E-03
520672.21	4258286.85	19430.20256	0.11812	0.13654	0.1164	0.14255	3.37E-03	2.77E-07	2.80E-07	2.73E-07	2.81E-07	3.3712E-03
520684.94	4258665.44	19424.75725	0.12689	0.11597	0.12232	0.11957	3.37E-03	2.98E-07	2.38E-07	2.87E-07	2.35E-07	3.3702E-03
520658.19	4258431.12	19419.22395	0.12936	0.13651	0.12564	0.14263	3.37E-03	3.04E-07	2.80E-07	2.95E-07	2.81E-07	3.3693E-03
520667.17	4258377.09	19411.3212	0.1242	0.13531	0.1209	0.1411	3.37E-03	2.92E-07	2.78E-07	2.84E-07	2.78E-07	3.3679E-03
520129.41	4258182.47	19395.00844	0.17393	6.18218	0.17573	7.19121	3.36E-03	4.08E-07	1.27E-05	4.13E-07	1.42E-05	3.3916E-03
520664.1	4258302.8	19394.15944	0.21821	10.6311	0.23109	10.05715	3.36E-03	5.12E-07	4.03E-05	5.43E-07	1.98E-05	3.4249E-03
520672	4258312.17	19392.08647	0.11961	0.13532	0.11731	0.1415	3.36E-03	2.81E-07	2.78E-07	2.75E-07	2.79E-07	3.3646E-03
520691.95	4258787.11	19390.06791	0.12906	0.10254	0.12519	0.10572	3.36E-03	3.03E-07	2.10E-07	2.94E-07	2.08E-07	3.3641E-03
520055.34	4258326.6	19367.21491	0.23057	10.52954	0.24474	7.22773	3.36E-03	5.41E-07	2.16E-05	5.75E-07	1.42E-05	3.3961E-03
520671.05	4258335.53	19361.86318	0.12102	0.13516	0.11827	0.14115	3.36E-03	2.84E-07	2.77E-07	2.78E-07	2.78E-07	3.3593E-03
520680.9	4258837.44	19359.72192	0.13557	0.09961	0.13176	0.10268	3.36E-03	3.18E-07	2.04E-07	3.09E-07	2.02E-07	3.3589E-03
520095.38	4259260.66	19358.53112	11.70573	0.16915	10.99748	0.16052	3.36E-03	2.75E-05	3.47E-07	2.58E-05	3.16E-07	3.4116E-03
520691.3	4258692.9	19354.67302	0.12565	0.11199	0.12163	0.1154	3.36E-03	2.95E-07	2.30E-07	2.86E-07	2.27E-07	3.3580E-03
520693.89	4258710.67	19351.05602	0.1254	0.10958	0.12162	0.11305	3.36E-03	2.94E-07	2.25E-07	2.86E-07	2.23E-07	3.3574E-03
520109.74	4258212.41	19336.88921	0.18292	10.31592	0.18703	12.0048	3.35E-03	4.29E-07	2.12E-05	4.39E-07	2.36E-05	3.3996E-03
520009.52	4258531.17	19329.75075	0.51618	2.40318	0.58698	2.17029	3.35E-03	1.21E-06	5.11E-06	1.38E-06	4.27E-06	3.3646E-03
519957.12	4258636.77	19323.0011	0.46813	0.96858	0.52212	0.91391	3.35E-03	1.10E-06	1.99E-06	1.23E-06	1.80E-06	3.3576E-03
520696.06	4258753.36	19322.50101	0.12624	0.10479	0.12253	0.10831	3.35E-03	2.96E-07	2.15E-07	2.88E-07	2.13E-07	3.3524E-03
519890.73	4258908.88	19293.22798	0.47707	0.30406	0.51097	0.29643	3.35E-03	1.12E-06	6.24E-07	1.20E-06	5.84E-07	3.3498E-03
520684.46	4258828.95	19261.73554	0.13373	0.09984	0.12994	0.10285	3.34E-03	3.14E-07	2.05E-07	3.05E-07	2.02E-07	3.3419E-03
519937.12	4258683.15	19248.48916	0.44561	0.79301	0.49006	0.69676	3.34E-03	1.05E-06	1.50E-06	1.15E-06	1.37E-06	3.3436E-03
519910.42	4258763.46	19246.14786	0.43124	0.49829	0.46591	0.47901	3.34E-03	1.01E-06	1.02E-06	1.09E-06	9.43E-07	3.3422E-03
519899.71	4258809.97	19244.22131	0.43426	0.41646	0.4656	0.40152	3.34E-03	1.02E-06	8.54E-07	1.09E-06	7.90E-07	3.3416E-03
520038.53	4258383.47	19238.82263	0.27226	5.48569	0.28829	4.40686	3.34E-03	6.39E-07	1.13E-05	6.77E-07	8.67E-06	3.3581E-03
519896.72	4258826.87	19233.91479	0.43731	0.39258	0.46844	0.37879	3.34E-03	1.03E-06	8.05E-07	1.10E-06	7.46E-07	3.3397E-03
520638.58	4258952.11	19229.02908	0.15881	0.09413	0.15389	0.09776	3.34E-03	3.73E-07	1.93E-07	3.61E-07	1.92E-07	3.3363E-03
520045.82	4259229.92	19219.90283	6.01483	0.16865	8.32552	0.16426	3.33E-03	1.41E-05	3.46E-07	1.95E-05	3.23E-07	3.3679E-03
520149.08	4258152.53	19215.42744	0.16497	4.24599	0.1654	4.85748	3.33E-03	3.87E-07	8.71E-06	3.88E-07	9.56E-06	3.3519E-03
520696.73	4258727.83	19212.1974	0.12501	0.10715	0.12138	0.11068	3.33E-03	2.93E-07	2.20E-07	2.85E-07	2.18E-07	3.3333E-03
520670.75	4258360.62	19200.19455	0.12234	0.13442	0.11918	0.14019	3.33E-03	2.87E-07	2.76E-07	2.80E-07	2.76E-07	3.3313E-03
520673.17	4258212.02	19169.57905	0.11336	0.13953	0.1117	0.1446	3.32E-03	2.66E-07	2.86E-07	2.62E-07	2.85E-07	3.3260E-03
519969.85	4258608.92	19151.39117	0.48405	1.1755	0.54914	1.09825	3.32E-03	1.14E-06	1.29E-06	1.24E-06	2.16E-06	3.3287E-03
520685	4258655.96	19145.55574	0.12649	0.11671	0.12184	0.12039	3.32E-03	2.97E-07	2.39E-07	2.86E-07	2.37E-07	3.3218E-03
519890.13	4258883.33	19145.14707	0.45602	0.32685	0.48771	0.31722	3.32E-03	1.07E-06	6.70E-07	1.14E-06	6.24E-07	3.3241E-03
519979.77	4258589.48	19142.73486	0.49963	1.387	0.57406	1.27613	3.32E-03	1.17E-06	2.84E-06	1.35E-06	2.51E-06	3.3281E-03
519902.61	4258792.84	19141.82873	0.42954	0.44217	0.4612	0.42607	3.32E-03	1.01E-06	9.07E-07	1.08E-06	8.39E-07	3.3239E-03
520695.53	4258778.57	19141.16317	0.1273	0.10246	0.1235	0.10572	3.32E-03	2.99E-07	2.10E-07	2.90E-07	2.08E-07	3.3210E-03
520688.01	4258820.47	19134.31536	0.13191	0.1	0.12813	0.10298	3.32E-03	3.10E-07	2.05E-07	3.01E-07	2.03E-07	3.3198E-03
519893.64	4258843.56	19134.30818	0.43909	0.37023	0.46953	0.35773	3.32E-03	1.03E-06	7.59E-07	1.10E-06	7.04E-07	3.3224E-03
519999.61	4258550.61	19101.93836	0.51793	2.01437	0.59321	1.79191	3.31E-03	1.22E-06	4.13E-06	1.39E-06	3.53E-06	3.3234E-03
520055.74	4259239.9	19091.77945	8.60538	0.16754	15.38308	0.1624	3.31E-03	2.02E-05	3.44E-07	3.61E-05	3.20E-07	3.3684E-03
520674.64	4258222.66	19087.97445	0.11364	0.13856	0.11202	0.14362	3.31E-03	2.67E-07	2.84E-07	2.63E-07	2.83E-07	3.3118E-03
519889.69	4258570.05	19084.88471	0.51192	1.65962	0.58831	1.50242	3.31E-03	1.20E-06	3.40E-06	1.38E-06	2.96E-06	3.3191E-03
520675.95	4258270.8	19050.94863	0.11619	0.13568	0.1143	0.1414	3.30E-03	2.73E-07	2.78E-07	2.69E-07	2.78E-07	3.3054E-03
520675.66	4258295.9	19048.73604	0.11771	0.13437	0.11572	0.14043	3.30E-03	2.76E-07	2.76E-07	2.72E-07	2.76E-07	3.3050E-03
520019.4	4258502.04	19045.97721	0.47115	3.18109	0.52164	2.70255	3.30E-03	1.11E-06	6.52E-06	1.22E-06	5.32E-06	3.3176E-03
520085.48	4259260.68	19035.45382	15.64757	0.16714	17.07409	0.15939	3.30E-03	3.67E-05	3.43E-07	4.01E-05	3.14E-07	3.3791E-03
520026.15	4258466.06	19029.41185	0.39509	3.83016	0.42781	3.19431	3.30E-03	9.28E-07	7.86E-06	1.00E-06	6.29E-06	3.3166E-03
520663.74	4258419.81	19012.33298	0.12708	0.13473	0.12347	0.14067	3.30E-03	2.98E-07	2.76E-07	2.90E-07	2.77E-07	3.2987E-03
520119.59	4258192.44	19006.37974	0.17539	7.81034	0.17817	9.08187	3.30E-03	4.12E-07	1.60E-05	4.18E-07	1.79E-05	3.3313E-03
520178.57	4258112.63	19004.65954	0.1547	2.75524	0.15453	3.09456	3.30E-03	3.63E-07	5.65E-06	3.63E-07	6.09E-06	3.3087E-03
520676.22	4258233.35	19001.07453	0.11395	0.13731	0.11234	0.14251	3.30E-03	2.68E-07	2.82E-07	2.64E-07	2.81E-07	3.2967E-03
520691.56	4258811.99	18987.37156	0.13013	0.10014	0.12636	0.1031	3.29E-03	3.06E-07	2.05E-07	2.97E-07	2.03E-07	3.2943E-03
520667.11	4258402.8	18983.26977	0.12532	0.13415	0.12184	0.13994	3.29E-03	2.94E-07	2.75E-07	2.86E-07	2.75E-07	3.2937E-03
520029.38	4258433.94	18978.01154	0.33424	4.21109	0.35718	3.49151	3.29E-03	7.85E-07	8.64E-06	8.39E-07	6.87E-06	3.3088E-03
520699.66	4258744.77	18972.29863	0.12455	0.10481	0.12099	0.10829	3.29E-03	2.92E-07	2.15E-07	2.84E-07	2.13E-07	3.2917E-03
520654.76	4258473.85	18960.98497	0.13187	0.13605	0.12743	0.14219	3.29E-03	3.10E-07	2.79E-07	2.99E-07	2.80E-07	3.2899E-03
520139.26	4258162.5	18960.71709	0.16672	5.06368	0.16762	5.8466	3.29E-03	3.91E-07	1.04E-05	3.94E-07	1.15E-05	3.3113E-03
519890.49	4258860.07	18953.33508	0.43956	0.3495	0.46941	0.33826	3.29E-03	1.03E-06	7.17E-07	1.10E-06	6.66E-07	3.2909E-03
520045.38	4258350.68	18937.74456	0.24313	6.88366	0.25759	5.31291	3.28E-03	5.71E-07	1.41E-05	6.05E-07	1.10E-05	3.3104E-03
520674.4	4258344.35	18935.74323	0.12047	0.13343	0.11752	0.13922	3.28E-03	2.83E-07	2.74E-07	2.76E-07	2.74E-07	3.2854E-03
520652.54	4258929.11	18890.85357	0.15118	0.09415	0.14668	0.09763	3.28E-03	3.55E-07	1.93E-07	3.44E-07	1.92E-07	3.2776E-03
520670.58	4258386.05	18886.16444	0.12353	0.13347	0.12015	0.13914	3.28E-03	2.90E-07	2.74E-07	2.82E-07	2.74E-07	3.2768E-03
520656.2	4258920.38	18882.56718	0.14921	0.09448	0.14483	0.09791	3.28E-03	3.50E-07	1.94E-07	3.40E-07	1.93E-07	3.2762E-03
520699.1	4258770.04	18880.56364	0.12561	0.10238	0.12189	0.10571	3.27E-03	2.95E-07	2.10E-07	2.86E-07	2.08E-07	3.2757E-03
520168.75	4258122.6	18879.40497	0.15652	3.1416	0.15629	3.5243	3.27E-03	3.67E-07	6.44E-06	3.67E-07	6.99E-06	3.2887E-03
519947.12	4258655.32	18873.88321	0.44857	0.84872	0.49621	0.80389	3.27E-03	1.05E-06	1.74E-06	1.14E-06	1.58E-06	3.2791E-03
520659.85	4258911.66	18868.32107	0.14726	0.09483	0.14299	0.09821	3.27E-03	3.46E-07	1.94E-07	3.36E-07	1.93E-07	3.2737E-03
520039.34	4258373.15	18866.58445	0.2603	5.62352	0.27536	4.506	3.27E-03	6.11E-07	1.15E-05	6.46E-07	8.87E-06	3.2940E-03
520663.5	4258902.93	18848.38071	0.14533	0.09518	0.14115	0.09851	3.27E-03	3.41E-07	1.95E-07	3.31E-07	1.94E-07	3.2702E-03
520658.09	4258456.72	18847.87469	0.13022	0.13531	0.1261	0.14147	3.27E-03	3.06E-07	2.78E-07	2.96E-07	2.78E-07	3.2702E-03
520685.05	4258646.48	18847.50972	0.12611	0.11731	0.1214	0.12111	3.27E-03	2.96E-07	2.41E-07	2.85E-07	2.38E-07	3.2701E-03
520687.54	4258701.95	18843.71066	0.12373	0.10948	0.11997	0.11281	3.27E-03	2.90E-07	2.25E-07	2.82E-07	2.22E-07	3.2694E-03
520099.92	4258222.38	18823.11626	0.18393	14.77425	0.18935	16.12868	3.26E-03	4.32E-07	3.03E-05	4.45E-07	3.17E-05	3.3277E-03
520695.11	4258803.51	18822.46452	0.12838	0.10022	0.12463	0.10319	3.26E-03	3.01E-07	2.06E-07	2.93E-07	2.03E-07	3.2657E-03
520678.24	4258244.23	18822.1073	0.11408	0.13592	0.11251	0.14121	3.26E-03	2.68E-07	2.79E-07	2.64E-07	2.78E-07	3.2657E-03
520667.16	4258894.21	18821.67527	0.14339	0.09554	0.13932	0.09882	3.26E-03	3.37E-07	1.96E-07	3.27E-07	1.95E-07	3.2656E-03
519886.99	4258899.85	18814.42376	0.45457	0.30896	0.4857	0.30059	3.26E-03	1.07E-06	6.34E-07	1.14E-06	5.92E-07	3.2667E-03
519913.27	4258746.2	18811.91833	0.42187	0.53069	0.45807	0.50911	3.26E-03	9.90E-07	1.09E-06	1.08E-06	1.00E-06	3.2670E-03
520661.53	4258439.88	18808.76278	0.12853	0.13462	0.12467	0.14069	3.26E-03	3.02E-07	2.76E-07	2.93E-07	2.77E-07	3.2634E-03
520694.84	4258684.46	18803.57535	0.12405	0.11171	0.11999	0.11504	3.26E-03	2.91E-07	2.29E-07	2.82E-07	2.26E-07	3.2624E-03
520670.81	4258885.48	18793.27012	0.14147	0.0859	0.1375	0.09913	3.26E-03	3.32E-07	1.97E-07	3.23E-07	1.95E-07	3.2607E-03
520055.77	4258316.43	18779.4655	0.2214	10.72754	0.2348	7.3244	3.26E-03	5.20E-07	2.20E-05	5.51E-07	1.44E-05	3.2947E-03
520700.35	4258719.18	18772.0444	0.12336	0.10709	0.1198	0.11049	3.26E-03	2.90E-07	2.20E-07	2.81E-07	2.17E-07	3.2569E-03
520674.46	4258876.76	18755.45101	0.13957	0.09623	0.13568	0.09942	3.25E-03	3.28E-07	1.97E-07	3.19E-07	1.96E-07	3.2541E-03
520045.84	4259239.92	18728.14155	6.03691	0.16501	8.39069	0.16073	3.25E-03	1.42E-05	3.38E-07	1.97E-05	3.16E-07	3.2828E-03
520096.39	4259273.23	18727.14007	11.41923	0.16484	10.49985	0.15637	3.25E-03	2.68E-05	3.38E-07	2.47E-05	3.08E-07	3.3002E-03
520674.14	4258369.51	18720.35024	0.12171	0.13267	0.11845	0.13828	3.25E-03	2.86E-07	2.72E-07	2.78E-07	2.72E-07	3.2481E-03
520678.12	4258868.03	18707.94563	0.1377	0.09649	0.13385	0.09963	3.24E-03	3.23E-07	1.98E-07	3.14E-07	1.96E-07	3.2458E-03
520158.93	4258132.57	18701.84298	0.15823	3.62666	0.15817	4.12419	3.24E-03	3.71E-07	7.44E-06	3.71E-07

520703.97	4258710.53	18312.5041	0.12175	0.10699	0.11822	0.11027	3.18E-03	2.86E-07	2.19E-07	2.78E-07	2.17E-07	3.1772E-03
520696.38	4258824.41	18308.82451	0.12857	0.0978	0.12494	0.10064	3.18E-03	3.02E-07	2.01E-07	2.93E-07	1.98E-07	3.1766E-03
519883.24	4258890.82	18300.121	0.43293	0.31353	0.46139	0.30452	3.17E-03	1.02E-06	6.43E-07	1.08E-06	5.99E-07	3.1774E-03
519886.82	4258851.23	18291.13112	0.41751	0.35359	0.44481	0.34206	3.17E-03	9.80E-07	7.25E-07	1.04E-06	6.73E-07	3.1759E-03
520661.45	4258465.56	18290.79808	0.1293	0.13356	0.12502	0.1396	3.17E-03	3.04E-07	2.74E-07	2.94E-07	2.75E-07	3.1736E-03
520119.62	4258182.44	18287.18717	0.16965	7.82114	0.1722	9.09417	3.17E-03	3.98E-07	1.60E-05	4.04E-07	1.79E-05	3.2066E-03
520682.55	4258314.01	18274.5752	0.11676	0.13065	0.11424	0.13654	3.17E-03	2.74E-07	2.68E-07	2.68E-07	2.69E-07	3.1707E-03
520683.55	4258226.48	18268.65798	0.1117	0.13433	0.11004	0.13929	3.17E-03	2.62E-07	2.76E-07	2.58E-07	2.74E-07	3.1697E-03
520045.86	4259249.92	18251.50847	6.08114	0.16145	8.46322	0.1573	3.17E-03	1.43E-05	3.31E-07	1.99E-05	3.10E-07	3.2004E-03
519915.99	4258728.64	18247.41579	0.41155	0.56481	0.44756	0.54114	3.16E-03	9.66E-07	1.16E-06	1.05E-06	1.07E-06	3.1692E-03
520139.29	4258152.5	18239.59569	0.1615	5.06849	0.16225	5.84583	3.16E-03	3.79E-07	1.04E-05	3.81E-07	1.15E-05	3.1862E-03
520677.52	4258378.4	18236.01905	0.12107	0.13093	0.11773	0.13641	3.16E-03	2.84E-07	2.69E-07	2.76E-07	2.69E-07	3.1641E-03
520096.4	4259283.23	18232.80974	11.41462	0.16135	10.41881	0.15315	3.16E-03	2.68E-05	3.31E-07	2.45E-05	3.01E-07	3.2143E-03
520685.16	4258627.52	18213.75445	0.1254	0.11831	0.12065	0.1224	3.16E-03	2.94E-07	2.43E-07	2.83E-07	2.41E-07	3.1602E-03
520705.77	4258778.06	18208.05134	0.12338	0.10016	0.1198	0.10331	3.16E-03	2.90E-07	2.05E-07	2.81E-07	2.03E-07	3.1591E-03
520706.85	4258727.59	18201.63895	0.12132	0.10466	0.11795	0.108	3.16E-03	2.85E-07	2.15E-07	2.77E-07	2.13E-07	3.1580E-03
520056.16	4258306.28	18200.55583	0.21281	10.90763	0.22553	7.40153	3.16E-03	5.00E-07	2.24E-05	5.29E-07	1.46E-05	3.1948E-03
520700.04	4258815.68	18171.6703	0.12682	0.09794	0.12321	0.10077	3.15E-03	2.98E-07	2.01E-07	2.89E-07	1.98E-07	3.1528E-03
520168.78	4258112.6	18161.39777	0.15187	3.14367	0.15152	3.54925	3.15E-03	3.57E-07	6.45E-06	3.56E-07	6.99E-06	3.1642E-03
519881.35	4258911.69	18152.42536	0.43945	0.29428	0.46835	0.28672	3.15E-03	1.03E-06	6.04E-07	1.10E-06	5.64E-07	3.1518E-03
520685.19	4258237.2	18149.70995	0.11195	0.13305	0.1103	0.13817	3.15E-03	2.63E-07	2.73E-07	2.59E-07	2.72E-07	3.1491E-03
519898.82	4258783.7	18131.34036	0.40417	0.44486	0.43294	0.42922	3.14E-03	9.49E-07	9.12E-07	1.02E-06	8.45E-07	3.1485E-03
520682.43	4259339.55	18126.63381	0.11794	0.13023	0.11497	0.13581	3.14E-03	2.77E-07	2.67E-07	2.70E-07	2.67E-07	3.1451E-03
520055.77	4259259.9	18121.59877	8.72331	0.16041	15.97142	0.15557	3.14E-03	2.05E-05	3.29E-07	3.75E-05	3.06E-07	3.2017E-03
520099.95	4258212.38	18119.40482	0.17763	14.81669	0.18269	16.12089	3.14E-03	4.17E-07	3.04E-05	4.29E-07	3.17E-05	3.2057E-03
520009.48	4258521.48	18100.38872	0.48322	2.52748	0.54365	2.19921	3.14E-03	1.13E-06	5.18E-06	1.28E-06	4.33E-06	3.1514E-03
520659.58	4258936.25	18083.01001	0.14759	0.09199	0.14308	0.09536	3.14E-03	3.46E-07	1.89E-07	3.36E-07	1.88E-07	3.1375E-03
519906.72	4258754.54	18080.76413	0.40429	0.50035	0.43639	0.4813	3.14E-03	9.49E-07	1.03E-06	1.02E-06	9.47E-07	3.1400E-03
520663.21	4258927.58	18074.34596	0.14573	0.09228	0.14133	0.0956	3.13E-03	3.42E-07	1.89E-07	3.32E-07	1.88E-07	3.1360E-03
520681.12	4258361.99	18067.89636	0.11932	0.13005	0.11608	0.1355	3.13E-03	2.80E-07	2.67E-07	2.73E-07	2.67E-07	3.1349E-03
520695	4258656.02	18065.29259	0.12296	0.11368	0.11855	0.1172	3.13E-03	2.89E-07	2.33E-07	2.78E-07	2.31E-07	3.1344E-03
520666.84	4258918.91	18060.15705	0.14388	0.0926	0.13959	0.09588	3.13E-03	3.38E-07	1.90E-07	3.28E-07	1.89E-07	3.1335E-03
520670.47	4258910.24	18040.97771	0.14204	0.09294	0.13786	0.09617	3.13E-03	3.33E-07	1.91E-07	3.24E-07	1.89E-07	3.1302E-03
520674.1	4258901.58	18016.93882	0.1402	0.0933	0.13614	0.09648	3.12E-03	3.29E-07	1.91E-07	3.20E-07	1.90E-07	3.1260E-03
520046.71	4258330.16	18013.50923	0.2241	7.2038	0.23736	5.52231	3.12E-03	5.26E-07	1.48E-05	5.57E-07	1.09E-05	3.1511E-03
520158.96	4258122.57	18001.69824	0.15351	3.62826	0.1533	4.12425	3.12E-03	3.60E-07	7.44E-06	3.60E-07	8.12E-06	3.1386E-03
520703.69	4258806.96	18001.19786	0.12508	0.098	0.12149	0.10084	3.12E-03	2.94E-07	2.01E-07	2.85E-07	1.99E-07	3.1232E-03
520709.82	4258744.43	17996.93449	0.12083	0.10239	0.11751	0.10571	3.12E-03	2.84E-07	2.10E-07	2.76E-07	2.08E-07	3.1225E-03
520686.54	4258272.74	17990.54502	0.11354	0.13084	0.11181	0.13643	3.12E-03	2.67E-07	2.68E-07	2.63E-07	2.69E-07	3.1214E-03
520677.73	4258892.91	17988.48878	0.13838	0.09362	0.13441	0.09676	3.12E-03	3.25E-07	1.92E-07	3.16E-07	1.90E-07	3.1210E-03
519924.46	4258700.84	17976.87101	0.41223	0.6395	0.44876	0.61134	3.12E-03	9.68E-07	1.31E-06	1.05E-06	1.20E-06	3.1225E-03
520686.22	4258297.76	17969.87416	0.11497	0.12959	0.11274	0.13543	3.12E-03	2.70E-07	2.66E-07	2.65E-07	2.67E-07	3.1179E-03
520709.32	4258769.57	17957.17477	0.12179	0.10008	0.11831	0.10328	3.11E-03	2.86E-07	2.05E-07	2.78E-07	2.03E-07	3.1156E-03
520681.36	4258884.24	17955.36247	0.13657	0.09397	0.1327	0.09706	3.11E-03	3.21E-07	1.93E-07	3.12E-07	1.91E-07	3.1153E-03
520086.5	4259283.24	17953.57969	15.16056	0.15944	15.78644	0.15213	3.11E-03	3.56E-05	3.27E-07	3.71E-05	2.99E-07	3.1872E-03
520129.47	4258162.47	17948.73231	0.16296	6.19612	0.16441	7.19761	3.11E-03	3.83E-07	1.27E-05	3.86E-07	1.42E-05	3.1408E-03
519882.59	4258865.13	17944.82181	0.41184	0.33565	0.43813	0.32509	3.11E-03	9.67E-07	6.88E-07	1.03E-06	6.40E-07	3.1158E-03
520063.64	4258283.22	17942.73313	0.20113	17.72943	0.2125	9.76668	3.11E-03	4.72E-07	3.64E-05	4.99E-07	1.92E-05	3.1686E-03
520684.98	4258875.57	17918.26517	0.13477	0.09431	0.131	0.09735	3.11E-03	3.16E-07	1.93E-07	3.08E-07	1.92E-07	3.1089E-03
519947.12	4258646.05	17890.38505	0.432	0.86409	0.4772	0.81973	3.10E-03	1.01E-06	1.77E-06	1.12E-06	1.61E-06	3.1085E-03
520685.21	4258618.03	17890.24322	0.12505	0.11883	0.12035	0.12304	3.10E-03	2.94E-07	2.44E-07	2.83E-07	2.42E-07	3.1040E-03
520109.8	4258192.41	17877.88222	0.17076	10.36886	0.17441	11.80161	3.10E-03	4.01E-07	2.13E-05	4.09E-07	2.32E-05	3.1461E-03
520688.61	4258866.9	17871.31867	0.13299	0.09461	0.12929	0.0976	3.10E-03	3.12E-07	1.94E-07	3.04E-07	1.92E-07	3.1007E-03
520707.59	4258701.88	17836.46907	0.12019	0.10682	0.11665	0.10999	3.09E-03	2.82E-07	2.19E-07	2.74E-07	2.17E-07	3.0946E-03
520707.34	4258798.23	17834.99668	0.12343	0.09804	0.11987	0.10092	3.09E-03	2.90E-07	2.01E-07	2.81E-07	1.99E-07	3.0944E-03
520673.99	4258420.88	17834.33812	0.12381	0.13039	0.12017	0.13609	3.09E-03	2.91E-07	2.67E-07	2.82E-07	2.68E-07	3.0944E-03
519969.81	4258599.22	17828.75657	0.46285	1.19921	0.52534	1.11813	3.09E-03	1.09E-06	2.46E-06	1.23E-06	2.20E-06	3.0993E-03
519959.89	4258618.66	17827.56056	0.44784	1.03195	0.5018	0.97281	3.09E-03	1.05E-06	2.12E-06	1.18E-06	1.91E-06	3.0984E-03
520677.4	4258403.97	17819.45754	0.12213	0.12984	0.11863	0.13537	3.09E-03	2.87E-07	2.66E-07	2.79E-07	2.66E-07	3.0918E-03
520692.24	4258858.23	17816.50809	0.13124	0.09485	0.12759	0.09779	3.09E-03	3.08E-07	1.95E-07	3.00E-07	1.92E-07	3.0912E-03
520149.14	4258132.54	17811.78251	0.15512	4.24828	0.1552	4.87086	3.09E-03	3.64E-07	8.71E-06	3.64E-07	9.59E-06	3.1084E-03
520670.69	4258438.06	17809.35232	0.12542	0.1309	0.12159	0.13676	3.09E-03	2.94E-07	2.68E-07	2.85E-07	2.69E-07	3.0901E-03
520045.87	4259259.92	17789.34351	6.10454	0.15803	8.54294	0.15401	3.09E-03	1.43E-05	3.24E-07	2.01E-05	3.03E-07	3.1205E-03
520704.84	4258684.52	17786.05247	0.12055	0.10896	0.11671	0.11213	3.08E-03	2.83E-07	2.23E-07	2.74E-07	2.21E-07	3.0859E-03
520710.45	4258719	17785.26879	0.11977	0.10455	0.11644	0.10779	3.08E-03	2.81E-07	2.14E-07	2.73E-07	2.12E-07	3.0858E-03
520664.82	4258474.39	17784.06255	0.12836	0.13188	0.12393	0.13776	3.08E-03	3.01E-07	2.70E-07	2.91E-07	2.71E-07	3.0857E-03
520695.05	4258646.54	17778.76221	0.12261	0.11423	0.11814	0.11787	3.08E-03	2.88E-07	2.34E-07	2.77E-07	2.32E-07	3.0847E-03
520096.42	4259293.23	17763.42573	11.36135	0.15802	10.33526	0.15005	3.08E-03	2.67E-05	3.24E-07	2.43E-05	2.95E-07	3.1325E-03
519879.5	4258881.79	17755.69846	0.41219	0.31775	0.43819	0.30825	3.08E-03	9.68E-07	6.52E-07	1.03E-06	6.07E-07	3.0829E-03
520695.87	4258849.56	17750.9293	0.1295	0.09511	0.12589	0.09797	3.08E-03	3.04E-07	1.95E-07	2.96E-07	1.93E-07	3.0798E-03
520680.9	4258387.29	17749.21511	0.12042	0.12918	0.11702	0.13457	3.08E-03	2.83E-07	2.65E-07	2.75E-07	2.65E-07	3.0796E-03
519979.73	4258579.79	17736.69483	0.47589	1.41467	0.54363	1.29929	3.08E-03	1.12E-06	2.90E-06	1.28E-06	2.56E-06	3.0842E-03
519999.56	4258540.91	17727.7182	0.48745	2.04543	0.55332	1.819	3.07E-03	1.14E-06	4.20E-06	1.30E-06	3.58E-06	3.0850E-03
520685.9	4258348.68	17713.60129	0.11737	0.12854	0.11424	0.13394	3.07E-03	2.76E-07	2.64E-07	2.68E-07	2.64E-07	3.0734E-03
520712.87	4258761.09	17707.9625	0.12028	0.10006	0.11691	0.10329	3.07E-03	2.82E-07	2.05E-07	2.74E-07	2.03E-07	3.0723E-03
520027.45	4258408.01	17705.42129	0.28722	4.03022	0.30444	3.3828	3.07E-03	6.74E-07	8.27E-06	7.15E-07	6.66E-06	3.0872E-03
520668.2	4258457.4	17679.32654	0.12679	0.13109	0.12266	0.13701	3.07E-03	2.98E-07	2.69E-07	2.88E-07	2.70E-07	3.0675E-03
520699.5	4258840.9	17672.41842	0.12778	0.09536	0.12421	0.09816	3.07E-03	3.00E-07	1.96E-07	2.92E-07	1.93E-07	3.0662E-03
520028.87	4258397.44	17668.7709	0.27495	4.18292	0.29081	3.50053	3.06E-03	6.45E-07	8.58E-06	6.83E-07	6.89E-06	3.0814E-03
520690.33	4258256.83	17662.0149	0.11175	0.12991	0.11009	0.13525	3.06E-03	2.62E-07	2.66E-07	2.58E-07	2.66E-07	3.0644E-03
520689.94	4258281.66	17652.43328	0.11315	0.12893	0.11122	0.13458	3.06E-03	2.66E-07	2.64E-07	2.61E-07	2.65E-07	3.0628E-03
519989.65	4258560.35	17651.45848	0.48451	1.68792	0.55185	1.52776	3.06E-03	1.14E-06	3.46E-06	1.30E-06	3.01E-06	3.0705E-03
520022.69	4258450.19	17647.77569	0.34893	3.5502	0.37448	3.00497	3.06E-03	8.19E-07	7.28E-06	8.79E-07	5.92E-06	3.0758E-03
520713.39	4258735.9	17639.92041	0.11931	0.10226	0.11606	0.10553	3.06E-03	2.80E-07	2.10E-07	2.72E-07	2.08E-07	3.0605E-03
520711	4258789.51	17636.92227	0.12179	0.09801	0.11829	0.10096	3.06E-03	2.86E-07	2.01E-07	2.78E-07	1.99E-07	3.0600E-03
519886.25	4258825.74	17623.44082	0.3943	0.3774	0.41984	0.36489	3.06E-03	9.26E-07	9.86E-07	7.74E-07	7.18E-07	3.0601E-03
520684.48	4258370.81	17620.12075	0.1187	0.1284	0.11539	0.1337	3.06E-03	2.79E-07	2.63E-07	2.71E-07	2.63E-07	3.0572E-03
520119.65	4258172.44	17611.90221	0.16422	7.83074	0.16657	9.10763	3.05E-03	3.86E-07	1.61E-05	3.91E-07	1.79E-05	3.0895E-03
520689.64	4258306.74	17609.06478	0.1145	0.12778	0.11201	0.13353	3.05E-03	2.69E-07	2.62E-07	2.63E-07	2.63E-07	3.0533E-03
519883.15	4258842.38	17599.20413	0.39638	0.35718	0.42156	0.34554	3.05E-03	9.31E-07	7.33E-07	9.90E-07	6.80E-07	3.0558E-03
520690.88	4258219.6	17585.31389	0.10953	0.13137	0.10781	0.13614	3.05E-03	2.57E-07	2.69E-07	2.53E-07	2.68E-07	3.0511E-03
520703.13	4258832.23	17579.04295	0.12607	0.09557	0.12254	0.09832	3.05E-03	2.96E-07	1.96E-07	2.88E-07	1.94E-07	3.0500E-03
520139.32	4258142.5	17575.16661	0.1566	5.06941	0.15719	5.85904	3.05E-03	3.68E-07	1.04E-05	3.69E-07	1.15E-05	3.0710E-03
520704.89	4258675.04	17570.38647	0.12022	0.10962	0.11624	0.11281	3.05E-03	2.82E-07	2.25E-07	2.73E-07	2.22E-07	3.0485E-03
520685.26	4258608.55	17569.97017	0.12473	0.11933	0.12007	0.12363	3.05E-03	2.93E-07	2.45E-07	2.82E-07	2.43E-07	3.0485E-03
519909.53	4258737.19	17567.6603	0.39478	0.53164	0.42761	0.51047	3.05E-03	9.27E-07	1.09E-06	1.00E-06	1.00E-06	3.0511E-03
519889.27	4258808.9	17559.69366	0.39102	0.39902	0.41686	0.38567	3.05E-03	9.18E-07	8.18E-07	9.79E-07	7.59E-07	3.0491E-03
520047.25	4258319.95	17540.46536	0.21548	7.33462	0.22802	5.61451	3.04E-03	5.06E-07	1.50E-05	5.35E-07	1.11E-05	3.0694E-03
520030	4258386.98	17525.84029	0.26322	4.3107	0.27791	3.59891	3.04E-03	6.18E-07	8.84E-06	6.52E-07	7.08E-06	3.0570E-03
519937.12	4258664.6	17504.2284	0.41479	0.76352	0.45474	0.72676	3.04E-03	9.74E-07	1.57E-06	1.07E-06	1.43E-06	3.0411E-03
520086.52	4259293.24	17494.4617	15.07173	0.15614	15.99979	0.14906	3.03E-03	3.54E-05	3.20E-07	3.66E-05	2.93E-07	3.1070E-03
520695.1	4258637.05	17478.89696	0.12228	0.11474	0.11778	0.11851	3.03E-03	2.87E-07	2.35E-07	2.77E-07	2.33E-07	3.0327E-03
520692.47	4258230.3	17478.47282	0.1098	0.13019	0.10809	0.13511	3.03E-03	2.58E-07	2.67E-07	2.54E-07	2.66E-07	3.0326E-03
520706.76	4258823.56	17468.53018	0.12441	0.09576	0.1209	0.09847	3.03E-03	2.92E-07	1.96E-07	2.84E-07	1.94E-07	3.0308E-03
520099.98	4258202.38	17462.47096	0.17168	14.86159	0.17643	15.99199	3.03E-03	4.03E-07	3.05E-05	4.14E-07	3.15E-05	3.0898E-03
520051.83	4259272.06	17443.63894	7.50513	0.15542	12.08496	0.15108	3.03E-03	1.76E-05	3.19E-07	2.84E-05	2.97E-07	3.0721E-03
520036.49	4258354.35	17418.44102	0.23555	5.15313	0.24839	4.20998	3.02E-03	5.53E-07	1.06E-05	5.83E-07	8.29E-06	3.0411E-03
520714.65	4258780.78	17417.60487	0.12019	0.09795	0.11677	0.10096	3.02E-03	2.82E-07	2.01E-07	2.74E-07	1.99E-07	3.0220E-03
520716.42	4258752.61	17410.00689	0.11876	0.10007	0.11553	0.10329	3.02E-03	2.79E-07	2.05E-07	2.71E-07	2.03E-07	3.0206E-03
519892.2	4258791.85	17393.01381	0.38637	0.42216	0.41254	0.40792	3.02E-03	9.07E-07	8.66E-07	9.69E-07	8.03E-07	3.0203E-03
520054.41	4258297.01	17383.71009	0.20354	9.92769	0.21547	6.99899	3.02E-03	4.78E-07	2.04E-05	5.06E-07	1.38E-05	3.0502E-03
519900.14	4258762.77	17373.18774	0.38723	0.47281	0.41598	0.45583	3.01E-03	9.09E-07	9.70E-07	9.77E-07	8.97E-07	3.0171E-03
520063.95	4258273.1	17362.33975	0.19382	18.06496	0.20457	9.84206	3.01E-03	4.55E-07	3.70E-05	4.80E-07	1.94E-05	3.0688E-03
520714.04	4258710.4	17352.6035	0.11827	0.10441	0.11494	0.10753	3.01E-03	2.78E-07	2.14E-07	2.70E-07	2.12E-07	3.0107E-03
520711.21	4258693.23	17347.04686	0.11868	0.10659	0.11509	0.10967	3.01E-03	2.79E-07	2.19E-07	2.70E-07	2.16E-07	3.0097E-03
520710.39	4258814.89	17338.86817	0.12277	0.09588	0.11929	0.09858	3.01E-03	2.88E-07	1.97E-07	2.80E-07	1.94E-07	3.0083E-03
520159	4258112.57	17337.11544	0.14901	3.62941	0.14869	4.12012	3.01E-03	3.50E-07	7.44E-06	3.49E-07	8.11E-06	3.0233E-03
520693.71	4258265.69	17336.98739	0.11137	0.12806	0.10961	0.13347	3.01E-03	2.61E-07	2.57E-07	2.57E-07	2.63E-07	3.0081E-03
519918.02	4258709.44	17335.57702	0.39584	0.59975	0.42946	0.57453	3.01E-03	9.29E-07	1.23E-06	1.01E-06	1.13E-06	3.0111E-03
519874.04	4258918.7	17332.56187	0.41594	0.28323	0.44189	0.27603	3.01E-03	9.76E-07	5.81E-07	1.04E-06	5.43E-07	3.0094E-03
520704.94	4258665.56	17331.23255	0.1199	0.11018	0.11579	0.11345	3.01E-03	2.81E-07	2.26E-07	2.72E-07	2.23E-07	3.0070E-03
520668.18	4258483.23	17327.22142	0.12743	0.1302	0.12285	0.13591	3.01E-03	2.99E-07	2.67E-07	2.88E-07	2.68E-07	3.0064E-03
520693.33	4258290.58	17319.09193	0.11275	0.12695	0.11057	0.13262	3.00E-03	2.65E-07	2.60E-07	2.60E-07	2.61E-07	3.0050E-03
519878.81	4258856.03	17298.15331	0.39113	0.33927	0.4151	0.32855	3.00E-03	9.18E-07	6.96E-07	9.75E-07	6.47E-07	3.0035E-03
520689.38	4258357.8	17292.47879	0.11678	0.12687	0.11353	0.13211	3.00E-03	2.74E-07	2.66E-07	2.67E-07	2.60E-07	3.0004E-03
520129.5	4258152.47	17291.22682	0.15791	6.20519	0.15923	7.20094	3.00E-03	3.71E-07	1.27E-05	3.74E-07	1.42E-05	3.0267E-03
520030.94	4258376.61	17288.1181	0.25209	4.41898	0.26579	3.68365	3.00E-03	5.92E-07	9.06E-06	6.24E-07	7.25E-06	3.0161E-03
520680.82	4258412.93	17285.09424	0.1214	0.12805	0.11784	0.13354	3.00E-03	2.85E-07	2.63E-07	2.77E-07	2.63E-07	2.9991E-03
520677.44	4258429.92	17269.2358	0.123	0.1286	0.11928	0.13426	3.00E-03	2.89E-07	2.64E-07	2.80E-07	2.64E-07	2.9964E-03
520716.97	4258727.36	17263.68346	0.11781	0.10216	0.11462	0.10534	2.99E-03	2.77E-07	2.10E-07	2.69E-07	2.07E-07	2.9953E-03
520684.29	4258396.18	17259.49001	0.11976	0.12742	0.11629	0.13276	2.99E-03	2.81E-07	2.61E-07	2.73E-07	2.61E-07	2.9947E-03
520685.32	4258599.07	17257.36996	0.12441	0.1198	0.11981	0.12417	2.99E-03	2.92E-07	2.46E-07	2.81E-07	2.44E-07	2.9943E-03
520693.06	4258315.73	17251.83448	0.114	0.12632	0.11129	0.1319	2.99E-03	2.68E-07	2.59E-07	2.61E-07	2.60E-07	2.9933E-03
520109.83	4258182.41	17225.52692	0.16523	10.38729	0.16864	11.79446	2.99E-03	3.88E-07	2.13E-05	3.96E-07	2.32E-05	3.0330E-03
520714.02	4258806.22	17183.41816	0.12115	0.09593	0.11771	0.09865	2.98E-03	2.84E-07	1.97E-07	2.76E-07	1.94E-07	2.9813E-03
519875.75	4258872.76	17180.76239	0.39225	0.32153	0.41601	0.3117	2.98E-03	9.21E-07	6.59E-07	9.77E-07	6.14E-07	2.9831E-03
520718.3	4258772.05	17176.27324	0.11864	0.09786	0.11531	0.10093	2.98E-03	2.79E-07	2.01E-07	2.71E-07	1.99E-07	2.9801E-03
520671.53	4258466.16	17174.11015	0.1259	0.12942	0.12163	0.13521	2.98E-03	2.96E-07	2.65E-07	2.86E-07	2.66E-07	2.9799E-03
520687.84	4258379.63	17173.25566	0.11809	0.12672	0.11471	0.13193	2.98E-03	2.77E-07	2.60E-07	2.69E-07	2.60E-07	2.9797E-03
520695.16	4258627.57	17170.58791	0.12195	0.1152	0.11745	0.11911	2.98E-03	2.86E-07	2.36E-07	2.76E-07	2.34E-07	2.9792E-03
520092.31	4259304.47	17150.56632	12.72305	0.15367	11.94546	0.14631	2.97E-03	2.99E-05	3.15E-07	2.80E-05	2.88E-07	3.0332E-03
520149.18	4258122.54	17150.441	0.15048	4.25158	0.1505	4.86062	2.97E-03	3.53E-07	8.72E-06	3.53E-07	9.57E-06	2.9937E-03
520009.44	4258511.78	17145.172	0.45302	2.55742	0.50431	2.22523	2.97E-03	1.06E-06	5.25E-06	1.18E-06	4.38E-06	2.9856E-03
520041.93	4259272.07	17133.49297	5.38645	0.15319	7.24762	0.14956	2.97E-03	1.26E-05	3.14E-07	1.70E-05	2.94E-07	3.0020E-03
519872.52	4258908.12	17128.07961	0.40401	0.29013	0.4286	0.28229	2.97E-03	9.48E-07	5.95E-07	1.01E-06	5.56E-07	2.9739E-03
519895.03	4258774.56	17108.32386	0.38019	0.44694	0.40671	0.43166	2.97E-03	8.93E-07	9.17E-07	9.55E-07	8.50E-07	2.9710E-03
520692.89	4258341.17	17100.934	0.1151	0.12598	0.11202	0.13125	2.97E-03	2.70E-07	2.58E-07	2.63E-07	2.58E-07	2.9671E-03
520719.97	4258744.13	17091.6466	0.11726	0.10002	0.11416	0.1032	2.96E-03	2.75E-07	2.05E-07	2.68E-07	2

520677.64	4258456.32	16710.68648	0.12366	0.12739	0.11958	0.13308	2.90E-03	2.90E-07	2.61E-07	2.81E-07	2.62E-07	2.8995E-03
520092.32	4259314.47	16706.97309	12.82561	0.15053	11.83066	0.1434	2.90E-03	3.01E-05	3.09E-07	2.78E-05	2.82E-07	2.9562E-03
520700.46	4258283.43	16702.51377	0.11059	0.12442	0.10846	0.12992	2.90E-03	2.60E-07	2.55E-07	2.55E-07	2.56E-07	2.8980E-03
520701.12	4258259.29	16699.33494	0.10925	0.12521	0.10744	0.13046	2.90E-03	2.56E-07	2.57E-07	2.52E-07	2.57E-07	2.8974E-03
519885.54	4258799.92	16694.82215	0.36958	0.40131	0.39347	0.38831	2.90E-03	8.68E-07	8.23E-07	9.24E-07	7.64E-07	2.8990E-03
520685.42	4258580.11	16680.68189	0.12382	0.12082	0.11928	0.12522	2.89E-03	2.91E-07	2.48E-07	2.80E-07	2.46E-07	2.8943E-03
520129.54	4258142.47	16673.09348	0.15314	6.2048	0.15432	7.20189	2.89E-03	3.60E-07	1.27E-05	3.62E-07	1.42E-05	2.9195E-03
519959.85	4258608.96	16664.70385	0.42975	1.05064	0.48197	0.98977	2.89E-03	1.01E-06	2.15E-06	1.13E-06	1.95E-06	2.8967E-03
520700.13	4258308.43	16646.94528	0.11183	0.12367	0.10917	0.12913	2.89E-03	2.63E-07	2.54E-07	2.56E-07	2.54E-07	2.8884E-03
520714.89	4258675.09	16636.29603	0.1169	0.10689	0.11313	0.10994	2.89E-03	2.74E-07	2.19E-07	2.66E-07	2.16E-07	2.8865E-03
520725.61	4258754.6	16635.16912	0.11564	0.09777	0.11257	0.10087	2.89E-03	2.71E-07	2.01E-07	2.64E-07	1.99E-07	2.8862E-03
519937.12	4258655.32	16628.65181	0.40029	0.77694	0.43836	0.7405	2.88E-03	9.40E-07	1.59E-06	1.03E-06	1.46E-06	2.8892E-03
519875.04	4258846.93	16625.47711	0.37132	0.34244	0.39345	0.33171	2.88E-03	8.72E-07	7.02E-07	9.24E-07	6.53E-07	2.8868E-03
520109.86	4258172.41	16614.49276	0.16002	10.40377	0.1632	11.81847	2.88E-03	3.76E-07	2.13E-05	3.83E-07	2.33E-05	2.9271E-03
520724.91	4258780.21	16596.98357	0.11653	0.09578	0.11329	0.09869	2.88E-03	2.74E-07	1.96E-07	2.66E-07	1.94E-07	2.8796E-03
520051.86	4259292.06	16595.42506	7.30459	0.14925	12.41777	0.14512	2.88E-03	1.71E-05	3.06E-07	2.92E-05	2.86E-07	2.9253E-03
519872.01	4258863.73	16580.74354	0.3732	0.32483	0.39496	0.31488	2.88E-03	8.76E-07	6.66E-07	9.27E-07	6.20E-07	2.8789E-03
519969.77	4258589.53	16571.40155	0.4426	1.2229	0.50181	1.13712	2.87E-03	1.04E-06	2.51E-06	1.18E-06	2.24E-06	2.8812E-03
519999.52	4258531.21	16559.24122	0.45924	2.07456	0.51681	1.84421	2.87E-03	1.08E-06	4.25E-06	1.21E-06	3.63E-06	2.8823E-03
520695.26	4258608.61	16555.11295	0.12135	0.1161	0.11691	0.12023	2.87E-03	2.85E-07	2.38E-07	2.74E-07	2.37E-07	2.8724E-03
519920.79	4258692	16552.30571	0.38406	0.63573	0.41656	0.60863	2.87E-03	9.02E-07	1.30E-06	9.78E-07	1.20E-06	2.8753E-03
520149.21	4258112.54	16537.47067	0.14611	4.25292	0.14604	4.85883	2.87E-03	3.43E-07	8.72E-06	3.43E-07	9.56E-06	2.8873E-03
520705.1	4258637.11	16508.32819	0.11894	0.11176	0.11467	0.11538	2.86E-03	2.79E-07	2.29E-07	2.69E-07	2.27E-07	2.8643E-03
519868.5	4258886.57	16496.72798	0.37675	0.30316	0.39842	0.29428	2.86E-03	8.84E-07	6.22E-07	9.35E-07	5.79E-07	2.8643E-03
520724.11	4258710.29	16463.22722	0.11493	0.10186	0.11176	0.10484	2.86E-03	2.70E-07	2.09E-07	2.62E-07	2.06E-07	2.8564E-03
519888.44	4258782.79	16450.99941	0.3644	0.42394	0.38846	0.41013	2.85E-03	8.55E-07	8.69E-07	9.12E-07	8.07E-07	2.8568E-03
520721.24	4258693.22	16445.12209	0.11537	0.10399	0.11197	0.10692	2.85E-03	2.71E-07	2.13E-07	2.63E-07	2.10E-07	2.8533E-03
519979.69	4258570.09	16444.64425	0.45294	1.43973	0.51339	1.32095	2.85E-03	1.06E-06	2.95E-06	1.21E-06	2.60E-06	2.8601E-03
520082.42	4259314.48	16444.11344	15.90091	0.14861	18.91807	0.14235	2.85E-03	3.73E-05	3.05E-07	4.44E-05	2.80E-07	2.9345E-03
520696.33	4258376.05	16428.13875	0.11554	0.12356	0.11217	0.12858	2.85E-03	2.71E-07	2.53E-07	2.63E-07	2.53E-07	2.8504E-03
520685.48	4258570.63	16423.66438	0.12356	0.12118	0.11899	0.12561	2.85E-03	2.90E-07	2.49E-07	2.79E-07	2.47E-07	2.8497E-03
520000.4	4258502.08	16422.74489	0.42546	2.58246	0.4689	2.24849	2.85E-03	9.99E-07	5.30E-06	1.10E-06	4.43E-06	2.8603E-03
520704.83	4258243.18	16418.40152	0.10758	0.1243	0.10579	0.12931	2.85E-03	2.53E-07	2.55E-07	2.48E-07	2.55E-07	2.8487E-03
520714.94	4258665.61	16405.32534	0.1166	0.10746	0.11272	0.11058	2.85E-03	2.74E-07	2.20E-07	2.65E-07	2.18E-07	2.8464E-03
520727.08	4258727.16	16395.32902	0.11441	0.09979	0.11142	0.10283	2.84E-03	2.69E-07	2.05E-07	2.62E-07	2.02E-07	2.8446E-03
519989.61	4258550.65	16394.64822	0.45857	1.71424	0.51831	1.55112	2.84E-03	1.08E-06	3.52E-06	1.22E-06	3.05E-06	2.8524E-03
520055.27	4258276.69	16388.0124	0.18927	10.27597	0.20006	7.19542	2.84E-03	4.44E-07	2.11E-05	4.70E-07	1.42E-05	2.8786E-03
520703.84	4258292.29	16378.08651	0.11017	0.12269	0.1078	0.12815	2.84E-03	2.59E-07	2.52E-07	2.53E-07	2.52E-07	2.8430E-03
520704.6	4258268.42	16385.0199	0.10885	0.12339	0.10691	0.12871	2.84E-03	2.56E-07	2.53E-07	2.51E-07	2.53E-07	2.8429E-03
519865.27	4258915.14	16378.19053	0.38344	0.2793	0.4056	0.27184	2.84E-03	9.00E-07	5.73E-07	9.52E-07	5.35E-07	2.8437E-03
520119.72	4258152.44	16376.82808	0.15423	7.84537	0.15623	9.12063	2.84E-03	3.62E-07	1.61E-05	3.67E-07	1.80E-05	2.8753E-03
520038.72	4258323.47	16364.16915	0.20958	5.48863	0.22093	4.45692	2.84E-03	4.92E-07	1.13E-05	5.19E-07	8.77E-06	2.8593E-03
520728.54	4258771.55	16353.09758	0.11505	0.09566	0.11191	0.09863	2.84E-03	2.70E-07	1.96E-07	2.63E-07	1.94E-07	2.8373E-03
519905.8	4258728.19	16352.48618	0.36972	0.53141	0.3993	0.51071	2.84E-03	8.68E-07	1.09E-06	9.37E-07	1.01E-06	2.8402E-03
520139.39	4258122.5	16331.21059	0.14742	1.07602	0.14784	1.84708	2.83E-03	3.46E-07	1.04E-05	3.47E-07	1.15E-05	2.8552E-03
519896.47	4258753.92	16325.19281	0.36457	0.47363	0.39049	0.45716	2.83E-03	8.56E-07	9.71E-07	9.17E-07	9.00E-07	2.8352E-03
520729.26	4258745.88	16324.87562	0.11418	0.09772	0.11123	0.10078	2.83E-03	2.68E-07	2.00E-07	2.61E-07	1.98E-07	2.8324E-03
520699.79	4258359.27	16318.78892	0.11395	0.12282	0.11067	0.12777	2.83E-03	2.68E-07	2.50E-07	2.60E-07	2.52E-07	2.8315E-03
520041.96	4259292.07	16314.972	5.32238	0.14715	7.38698	0.14369	2.83E-03	1.25E-05	3.02E-07	1.73E-05	2.83E-07	2.8602E-03
520703.53	4258317.35	16314.50015	0.11132	0.12227	0.10847	0.12756	2.83E-03	2.61E-07	2.51E-07	2.55E-07	2.51E-07	2.8307E-03
519927.12	4258673.87	16292.10239	0.38505	0.69152	0.41874	0.66105	2.83E-03	9.04E-07	1.42E-06	9.83E-07	1.30E-06	2.8304E-03
520678.21	4258483.68	16291.78551	0.12408	0.12636	0.11958	0.13182	2.83E-03	2.91E-07	2.59E-07	2.81E-07	2.59E-07	2.8268E-03
520064.49	4258252.91	16282.52963	0.18054	18.60954	0.19014	10.03676	2.82E-03	4.24E-07	3.82E-05	4.46E-07	1.98E-05	2.8829E-03
520045.53	4258300.68	16280.1128	0.19815	6.84725	0.20938	5.33975	2.82E-03	4.65E-07	1.40E-05	4.92E-07	1.05E-05	2.8493E-03
520092.34	4259324.47	16276.83213	12.95923	0.14748	11.70976	0.14057	2.82E-03	3.04E-05	2.75E-07	2.75E-05	3.02E-07	2.8816E-03
520691.06	4258413.95	16269.12062	0.11835	0.12401	0.1148	0.12929	2.82E-03	2.78E-07	2.54E-07	2.70E-07	2.55E-07	2.8229E-03
520694.56	4258397.28	16260.7368	0.1168	0.12339	0.11333	0.1285	2.82E-03	2.74E-07	2.53E-07	2.66E-07	2.53E-07	2.8214E-03
520695.32	4258599.13	16257.05741	0.12105	0.11657	0.11667	0.12076	2.82E-03	2.84E-07	2.39E-07	2.74E-07	2.38E-07	2.8207E-03
520687.64	4258430.85	16241.9711	0.11986	0.12459	0.11617	0.13003	2.82E-03	2.81E-07	2.56E-07	2.73E-07	2.56E-07	2.8182E-03
520100.05	4258182.38	16221.96072	16.6072	14.92564	16.6498	15.50809	2.81E-03	3.77E-07	3.06E-05	3.87E-07	3.05E-05	2.8755E-03
520681.11	4258465.44	16218.48367	0.12276	0.12574	0.11855	0.13131	2.81E-03	2.88E-07	2.58E-07	2.78E-07	2.58E-07	2.8141E-03
520705.16	4258627.63	16213.19634	0.11865	0.11219	0.11438	0.11595	2.81E-03	2.79E-07	2.30E-07	2.69E-07	2.28E-07	2.8131E-03
520685.53	4258561.14	16193.83258	0.1233	0.12158	0.11869	0.12602	2.81E-03	2.89E-07	2.49E-07	2.79E-07	2.48E-07	2.8098E-03
519866.94	4258875.98	16178.80738	0.36493	0.30971	0.38546	0.30049	2.81E-03	8.57E-07	6.35E-07	9.05E-07	5.92E-07	2.8099E-03
519875.82	4258824.69	16161.58274	0.35726	0.36243	0.37853	0.35122	2.80E-03	8.39E-07	7.43E-07	8.89E-07	6.91E-07	2.8063E-03
520703.32	4258342.69	16160.78692	0.11236	0.12194	0.1092	0.12692	2.80E-03	2.64E-07	2.50E-07	2.56E-07	2.50E-07	2.8040E-03
520715	4258656.13	16154.67269	0.1163	0.10798	0.11234	0.11121	2.80E-03	2.73E-07	2.21E-07	2.64E-07	2.19E-07	2.8029E-03
519863.68	4258904.54	16141.51843	0.37215	0.28558	0.39307	0.27763	2.80E-03	8.74E-07	5.86E-07	9.23E-07	5.47E-07	2.8026E-03
520052.7	4259304.53	16116.6157	7.50665	0.1457	13.47389	0.14166	2.80E-03	1.76E-05	2.99E-07	3.16E-05	2.79E-07	2.8452E-03
520708.29	4258252.24	16116.42076	0.1072	0.12258	0.10537	0.12767	2.80E-03	2.52E-07	2.51E-07	2.47E-07	2.51E-07	2.7963E-03
520732.17	4258762.88	16105.73713	0.11363	0.09558	0.1106	0.09857	2.79E-03	2.67E-07	1.96E-07	2.60E-07	1.94E-07	2.7944E-03
520129.57	4258132.47	16092.25774	0.14862	6.20763	0.14967	7.21008	2.79E-03	3.49E-07	1.27E-05	3.51E-07	1.42E-05	2.8188E-03
519891.24	4258765.42	16086.67476	0.35767	0.4483	0.38214	0.43332	2.79E-03	8.40E-07	9.19E-07	8.97E-07	8.53E-07	2.7937E-03
520708.07	4258277.54	16076.38943	0.10845	0.12162	0.10631	0.12697	2.79E-03	2.55E-07	2.49E-07	2.50E-07	2.50E-07	2.7894E-03
520707.21	4258301.16	16073.37917	0.10972	0.12112	0.10712	0.12648	2.79E-03	2.58E-07	2.48E-07	2.51E-07	2.49E-07	2.7889E-03
520109.9	4258162.41	16042.15075	0.15511	10.41422	0.15806	11.86834	2.78E-03	3.64E-07	2.14E-05	3.71E-07	2.34E-05	2.8279E-03
520727.69	4258701.76	16041.50044	0.11354	0.10165	0.11034	0.10454	2.78E-03	2.67E-07	2.08E-07	2.59E-07	2.06E-07	2.7833E-03
519878.86	4258807.91	16037.97881	0.35385	0.3821	0.37562	0.37021	2.78E-03	8.31E-07	7.84E-07	8.82E-07	7.29E-07	2.7849E-03
520082.44	4259324.48	16034.1997	15.91924	0.14565	18.63394	0.13957	2.78E-03	3.74E-05	2.99E-07	4.37E-05	2.75E-07	2.8628E-03
519914.39	4258700.67	16033.29726	0.37022	0.50668	0.39979	0.5726	2.78E-03	8.69E-07	1.22E-06	9.39E-07	1.13E-06	2.7851E-03
520730.63	4258718.68	16023.80271	0.11304	0.09965	0.11006	0.10258	2.78E-03	2.65E-07	2.04E-07	2.58E-07	2.02E-07	2.7802E-03
520027.61	4258358.01	16006.97461	0.2282	4.05937	0.23976	3.43629	2.78E-03	5.36E-07	8.33E-06	5.63E-07	6.76E-06	2.7925E-03
520732.92	4258737.15	15994.72809	0.11277	0.09761	0.10988	0.10061	2.77E-03	2.65E-07	2.00E-07	2.58E-07	1.98E-07	2.7751E-03
520685.58	4258551.66	15993.18904	0.12305	0.12188	0.11839	0.12637	2.77E-03	2.89E-07	2.50E-07	2.78E-07	2.49E-07	2.7750E-03
520699.8	4258385.18	15991.63159	0.11491	0.12188	0.11149	0.12684	2.77E-03	2.70E-07	2.50E-07	2.62E-07	2.50E-07	2.7747E-03
520020.18	4258401.03	15986.17555	0.26529	3.38902	0.2803	2.92213	2.77E-03	6.23E-07	6.97E-06	6.58E-07	5.75E-06	2.7867E-03
520039.28	4258313.25	15982.96698	0.20192	5.5738	0.21284	4.52268	2.77E-03	4.74E-07	1.14E-05	5.00E-07	8.90E-06	2.7935E-03
520680.86	4258510.71	15977.06868	0.12373	0.12466	0.11898	0.1297	2.77E-03	2.90E-07	2.56E-07	2.79E-07	2.55E-07	2.7722E-03
520724.83	4258684.63	15976.98525	0.11397	0.10371	0.11053	0.10659	2.77E-03	2.68E-07	2.13E-07	2.59E-07	2.10E-07	2.7721E-03
520695.37	4258589.65	15974.32189	0.12077	0.11705	0.11643	0.12127	2.77E-03	2.84E-07	2.40E-07	2.73E-07	2.39E-07	2.7717E-03
520021.48	4258390.5	15959.73454	0.25451	3.50495	0.26837	3.00751	2.77E-03	5.98E-07	7.19E-06	6.30E-07	5.92E-06	2.7825E-03
519868.26	4258854.71	15954.96669	0.35492	0.32767	0.37502	0.31773	2.77E-03	8.33E-07	6.72E-07	8.80E-07	6.25E-07	2.7703E-03
520012.66	4258474.56	15943.87679	0.3708	2.81823	0.40094	2.43911	2.77E-03	8.71E-07	5.78E-06	9.41E-07	4.80E-06	2.7778E-03
519871.27	4258837.83	15933.10801	0.35247	0.34501	0.37293	0.33446	2.76E-03	8.27E-07	7.08E-07	8.76E-07	6.58E-07	2.7666E-03
520681.2	4258501.58	15928.68257	0.12344	0.12473	0.11876	0.12989	2.76E-03	2.90E-07	2.56E-07	2.79E-07	2.56E-07	2.7638E-03
520009.36	4258492.38	15920.10755	0.40069	2.60367	0.43773	2.2687	2.76E-03	9.41E-07	5.34E-06	1.03E-06	4.47E-06	2.7730E-03
520703.23	4258368.33	15919.55494	0.11336	0.12124	0.11002	0.12609	2.76E-03	2.66E-07	2.49E-07	2.58E-07	2.48E-07	2.7622E-03
520705.21	4258618.15	15917.20986	0.11837	0.1126	0.11412	0.11648	2.76E-03	2.78E-07	2.31E-07	2.68E-07	2.29E-07	2.7618E-03
520681.54	4258492.44	15916.95774	0.12316	0.12493	0.1186	0.13019	2.76E-03	2.89E-07	2.56E-07	2.78E-07	2.56E-07	2.7618E-03
520055.63	4258266.55	15908.04325	0.18274	10.42051	0.19302	7.27358	2.76E-03	4.29E-07	2.14E-05	4.53E-07	1.43E-05	2.7957E-03
520015.77	4258442.74	15899.95718	0.31785	3.05378	0.33934	2.63912	2.76E-03	7.46E-07	6.26E-06	7.97E-07	5.20E-06	2.7708E-03
520715.05	4258646.65	15890.04704	0.11601	0.10847	0.112	0.11181	2.76E-03	2.72E-07	2.22E-07	2.63E-07	2.20E-07	2.7570E-03
520092.36	4259334.47	15870.98586	12.9653	0.14457	11.59682	0.13786	2.75E-03	3.04E-05	2.97E-07	2.72E-05	2.71E-07	2.8110E-03
520046.09	4258290.46	15866.78021	0.19123	6.96703	0.20198	5.43134	2.75E-03	4.49E-07	1.43E-05	4.74E-07	1.07E-05	2.7779E-03
519861.99	4258891.9	15860.51045	0.36058	0.29172	0.38032	0.28337	2.75E-03	8.47E-07	5.98E-07	8.93E-07	5.58E-07	2.7538E-03
520022.54	4258380.08	15856.19319	0.24427	3.59457	0.25711	3.08006	2.75E-03	5.73E-07	7.37E-06	6.04E-07	6.06E-06	2.7648E-03
520042.8	4259304.55	15852.07143	5.44814	0.14368	7.74943	0.14029	2.75E-03	1.28E-05	2.95E-07	1.82E-05	2.76E-07	2.7810E-03
520712.03	4258236.19	15848.33141	0.10558	0.12173	0.10374	0.12656	2.75E-03	2.48E-07	2.50E-07	2.44E-07	2.49E-07	2.7498E-03
520735.8	4258754.21	15832.49589	0.11224	0.09551	0.10932	0.09849	2.75E-03	2.64E-07	1.96E-07	2.57E-07	1.94E-07	2.7470E-03
519881.82	4258790.94	15825.93432	0.34941	0.40296	0.37145	0.39036	2.74E-03	8.20E-07	8.26E-07	8.72E-07	7.68E-07	2.7482E-03
520685.64	4258542.18	15823.70812	0.12281	0.12219	0.11812	0.12674	2.74E-03	2.88E-07	2.51E-07	2.77E-07	2.49E-07	2.7456E-03
520711.74	4258261.3	15820.43565	0.10683	0.12077	0.10488	0.12595	2.74E-03	2.51E-07	2.48E-07	2.46E-07	2.48E-07	2.7450E-03
520119.75	4258142.44	15816.31654	0.14965	7.84944	0.15148	9.15061	2.74E-03	3.51E-07	1.61E-05	3.56E-07	1.80E-05	2.7781E-03
519899.32	4258736.69	15799.36067	0.35593	0.50149	0.38285	0.483	2.74E-03	8.36E-07	1.03E-06	8.99E-07	9.51E-07	2.7440E-03
520697.92	4258406.1	15797.72005	0.11611	0.12178	0.11263	0.12686	2.74E-03	2.73E-07	2.50E-07	2.64E-07	2.50E-07	2.7411E-03
520028.6	4258347.62	15788.40846	0.21963	4.15991	0.23065	3.51465	2.74E-03	5.16E-07	8.53E-06	5.41E-07	6.92E-06	2.7549E-03
520694.44	4258422.84	15780.54074	0.11761	0.12237	0.11401	0.12762	2.74E-03	2.76E-07	2.51E-07	2.68E-07	2.51E-07	2.7381E-03
520724.89	4258675.15	15772.31763	0.1137	0.10426	0.11013	0.10718	2.74E-03	2.67E-07	2.14E-07	2.58E-07	2.11E-07	2.7366E-03
520684.58	4258474.57	15769.82912	0.12183	0.12422	0.11753	0.12963	2.74E-03	2.86E-07	2.55E-07	2.76E-07	2.55E-07	2.7363E-03
520711.54	4258286.67	15769.63206	0.10801	0.12	0.10567	0.1253	2.74E-03	2.54E-07	2.46E-07	2.48E-07	2.47E-07	2.7362E-03
520139.42	4258112.5	15767.30283	0.1432	5.07727	0.14353	5.84917	2.73E-03	3.36E-07	1.04E-05	3.37E-07	1.15E-05	2.7574E-03
519937.12	4258646.05	15766.53398	0.38661	0.78932	0.42324	0.75345	2.73E-03	9.08E-07	1.62E-06	9.94E-07	1.48E-06	2.7396E-03
520710.59	4258310.02	15762.68806	0.10925	0.11969	0.10644	0.12489	2.73E-03	2.56E-07	2.45E-07	2.50E-07	2.46E-07	2.7350E-03
520691.05	4258439.81	15743.21699	0.11906	0.12296	0.11528	0.12836	2.73E-03	2.80E-07	2.52E-07	2.71E-07	2.53E-07	2.7316E-03
520052.72	4259314.53	15729.71568	7.49717	0.14282	13.7302	0.1389	2.73E-03	1.76E-05	2.93E-07	3.22E-05	2.73E-07	2.7786E-03
520687.76	4258457.04	15725.34115	0.12047	0.12357	0.11644	0.12903	2.73E-03	2.83E-07	2.53E-07	2.73E-07	2.54E-07	2.7286E-03
520695.42	4258580.16	15708.02879	0.12049	0.11758	0.11618	0.12179	2.72E-03	2.83E-07	2.41E-07	2.73E-07	2.40E-07	2.7255E-03
520685.69	4258536.7	15688.62408	0.12259	0.12149	0.11788	0.12713	2.72E-03	2.88E-07	2.51E-07	2.77E-07	2.50E-07	2.7222E-03
520100.08	4258172.38	15675.462	0.15576	14.96626	0.15973	15.6528	2.72E-03	3.66E-07	3.07E-05	3.75E-07	3.08E-05	2.7811E-03
519908.44	4258710.45	15673.58459	0.35967	0.5619	0.38766	0.53997	2.72E-03	8.44E-07	1.15E-06	9.10E-07	1.06E-06	2.7225E-03
520063.45	4258243.35	15667.68562	0.17396	16.89893	0.18306	9.64845	2.72E-03	4.08E-07	3.47E-05	4.30E-07	1.90E-05	2.7720E-03
520736.57	4258728.43	15648.81295	0.11137	0.09755	0.10856	0.10045	2.71E-03	2.61E-07	2.00E-07	2.55E-07	1.98E-07	2.7151E-03
520082.46	4259334.48	15642.35225	15.82203	0.1428	18.37836	0.1369	2.71E-03	3.71E-05	2.93E-07	4.31E-05	2.69E-07	2.7939E-03
520734.18	4258710.19	15638.52723	0.11169	0.09952	0.10872	0.10234	2.71E-03	2.62E-07	2.04E-07	2.55E-07	2.01E-07	2.7134E-03
519999.48	4258521.52	15627.62468	0.43308	2.10159	0.4833	1.86737	2.71E-03	1.02E-06	4.31E-06	1.13E-06	3.68E-06	2.7207E-03
520705.26	4258608.67	15624.9238	0.1181	0.11301	0.11389	0.11698	2.71E-03	2.77E-07	2.32E-07	2.67E-07	2.30E-07	2.7111E-03
519949.89	4258618.7	15622.58145	0.40001	0.93111	0.44393	0.88381	2.71E-03	9.39E-07	1.91E-06	1.04E-06	1.74E-06	2.7153E-03
520715.1	4258637.17	15614.47807	0.11574	0.10887	0.11169	0.11235	2.71E-03	2.72E-07	2.23E-07	2.62E-07	2.21E-07	2.7092E-03
520731.26	4258693.22	15610.11702	0.11218	0.10147	0.10896	0.10427	2.71E-03	2.63E-07	2.08E-07	2.56E-07	2.05E-07	2.7084E-03
520685.75	4258523.22	15586.73664	0.12238	0.12268	0.11767	0.12744	2.70E-03	2.87E-07	2.52E-07	2.76E-07	2.51E-07	2.7045E-03
520715.45	4258245.19	15562.19976	0.10521	0.1201	0.10336	0.12501	2.70E-03	2.47E-07	2.46E-07	2.43E-07	2.46E-07	2.7002E-03
519959.81	4258599.26	15555.50399	0.41254	1.06971	0.46281	1.00599	2.70E-03	9.69E-07	2.19E-06	1.09E-06	1.98E-06	2.7043E-03
520724.94	4258665.67	15548.99997	0.11343	0.10481	0.10976	0.1078	2.70E-03	2.66E-07	2.15E-07	2.58E-07	2.12E-07	2.6979E-03
520129.6	4258122.47	15546.10156	0.14433	6.2087	0.14526	7.22412	2.70E-03	3.39E-07	1.27E-05	3.41E-07	1.42E-05	2.7240E-03
520703.28	4258394.31	15544.68814	0.11424	0.12024	0.11081	0.12516	2.70E-03	2.68E-07	2.47E-07	2.60E-07	2.46E-07	2.6972E-03
520739.43	4258745.54	15533.96152	0.11087	0.09545	0.10806	0.09839	2.69E-03	2.60E-07	1.96E-07	2.54E-07	1.94E-07	2.6955E-03
520029.45	4258337.28	15532.31925	0.21151	4.24793	0.22205	3.58367	2.69E-03	4.97E-07	8.71E-06	5.21E-07	7.05E-06	2.7108E-03
520715.19	4258270.36	15526.97125	0.10644	0.11905	0.10432	0.12427	2.69E-03	2.50E-07	2.44E-07

519902.06	4258719.18	15174.16914	0.34655	0.52989	0.37302	0.50981	2.63E-03	8.14E-07	1.09E-06	8.76E-07	1.00E-06	2.6357E-03
520734.83	4258684.69	15170.27029	0.11085	0.10122	0.1076	0.10398	2.63E-03	2.60E-07	2.08E-07	2.53E-07	2.05E-07	2.6321E-03
520718.49	4258304.92	15166.41201	0.1071	0.11689	0.10431	0.12197	2.63E-03	2.51E-07	2.40E-07	2.45E-07	2.40E-07	2.6315E-03
520100.11	4258162.38	15160.16116	0.15106	14.99827	0.15476	15.85769	2.63E-03	3.55E-07	3.08E-05	3.63E-07	3.12E-05	2.6922E-03
520042.84	4259324.55	15115.00865	5.45596	0.13815	7.91258	0.13494	2.62E-03	1.28E-05	2.83E-07	1.86E-05	2.66E-07	2.6536E-03
520706.75	4258403.43	15097.23054	0.11356	0.11861	0.11011	0.12351	2.62E-03	2.67E-07	2.43E-07	2.59E-07	2.43E-07	2.6196E-03
520092.8	4259355.29	15086.3754	12.69207	0.11889	11.20425	0.13255	2.62E-03	2.98E-05	2.85E-07	2.63E-05	2.61E-07	2.6733E-03
519887.45	4258756.28	15078.11	0.33667	0.44876	0.35897	0.43414	2.62E-03	7.90E-07	9.20E-07	8.43E-07	8.55E-07	2.6186E-03
520705.37	4258589.7	15072.39623	0.11757	0.11392	0.11344	0.11797	2.61E-03	2.76E-07	2.34E-07	2.66E-07	2.32E-07	2.6152E-03
520695.58	4258551.72	15065.17332	0.1198	0.11858	0.11535	0.12287	2.61E-03	2.81E-07	2.43E-07	2.71E-07	2.42E-07	2.6140E-03
520690.85	4258511.08	15053.71739	0.12051	0.12123	0.11593	0.12604	2.61E-03	2.83E-07	2.49E-07	2.72E-07	2.48E-07	2.6121E-03
520725.05	4258646.71	15053.62612	0.1129	0.10574	0.1091	0.10896	2.61E-03	2.65E-07	2.17E-07	2.56E-07	2.14E-07	2.6119E-03
520715.21	4258618.2	15048.94509	0.11521	0.10968	0.11119	0.11341	2.61E-03	2.70E-07	2.25E-07	2.61E-07	2.23E-07	2.6112E-03
520047.03	4258270.1	15041.23875	0.17844	7.17285	0.1884	5.56741	2.61E-03	4.19E-07	1.47E-05	4.42E-07	1.10E-05	2.6354E-03
520129.63	4258112.47	15024.82122	0.14024	6.21097	0.14108	7.22608	2.61E-03	3.29E-07	1.27E-05	3.31E-07	1.42E-05	2.6336E-03
520691.19	4258501.95	15011.55438	0.12024	0.12129	0.11572	0.12621	2.60E-03	2.82E-07	2.49E-07	2.72E-07	2.48E-07	2.6047E-03
520722.31	4258263.2	15006.49958	0.10448	0.11672	0.10239	0.12178	2.60E-03	2.45E-07	2.39E-07	2.40E-07	2.40E-07	2.6038E-03
520691.53	4258492.82	15002.58732	0.11996	0.12144	0.11554	0.12646	2.60E-03	2.82E-07	2.49E-07	2.71E-07	2.49E-07	2.6032E-03
520052.75	4259334.53	14994.65095	7.5258	0.13735	14.22908	0.13364	2.60E-03	1.77E-05	2.82E-07	3.34E-05	2.63E-07	2.6524E-03
520109.96	4258142.41	14990.11578	0.14604	10.43302	0.14858	11.98875	2.60E-03	3.43E-07	2.14E-05	3.49E-07	2.36E-05	2.6452E-03
520734.89	4258675.21	14971.57139	0.11061	0.10173	0.10724	0.10453	2.60E-03	2.60E-07	2.09E-07	2.52E-07	2.06E-07	2.5977E-03
520722.09	4258288.49	14954.4451	0.10558	0.11602	0.10307	0.12113	2.59E-03	2.48E-07	2.38E-07	2.42E-07	2.38E-07	2.5947E-03
520030.84	4258316.73	14952.36096	0.19659	0.39365	0.20633	3.70121	2.59E-03	4.62E-07	9.01E-06	4.84E-07	7.29E-06	2.6107E-03
519878.09	4258781.96	14951.16246	0.33031	0.40406	0.35072	0.39179	2.59E-03	7.75E-07	8.29E-07	8.23E-07	7.71E-07	2.5964E-03
519937.12	4258636.77	14921.6155	0.37368	0.80119	0.40941	0.76569	2.59E-03	8.77E-07	1.64E-06	9.61E-07	1.51E-06	2.5931E-03
519999.44	4258511.82	14916.92714	0.40894	2.12648	0.45261	1.88851	2.59E-03	9.60E-07	4.36E-06	1.06E-06	3.72E-06	2.5974E-03
520743.87	4258710.98	14911.28123	0.0187	0.09729	0.10591	0.09998	2.59E-03	2.55E-07	2.00E-07	2.49E-07	1.97E-07	2.5872E-03
520695.64	4258542.24	14907.70145	0.11958	0.1188	0.11508	0.12317	2.59E-03	2.81E-07	2.44E-07	2.70E-07	2.42E-07	2.5867E-03
520037.31	4258204.09	14897.66231	0.18626	5.23396	0.19607	4.30669	2.58E-03	4.37E-07	1.07E-05	4.60E-07	8.48E-06	2.6040E-03
520746.69	4258728.2	14892.87957	0.10822	0.09531	0.10555	0.09808	2.58E-03	2.54E-07	1.95E-07	2.48E-07	1.93E-07	2.5840E-03
519853.09	4258890.3	14890.37448	0.33263	0.28607	0.34945	0.27799	2.58E-03	7.81E-07	5.87E-07	8.20E-07	5.47E-07	2.5854E-03
520704.63	4258423.74	14887.09914	0.11469	0.11862	0.11114	0.12367	2.58E-03	2.69E-07	2.43E-07	2.61E-07	2.43E-07	2.5831E-03
520082.9	4259355.31	14878.35828	14.12594	0.13722	17.49195	0.13164	2.58E-03	3.32E-05	2.81E-07	4.11E-05	2.59E-07	2.6554E-03
520721.97	4258314.05	14867.77638	0.1066	0.1156	0.10365	0.12048	2.58E-03	2.50E-07	2.37E-07	2.43E-07	2.37E-07	2.5797E-03
520694.64	4258475.12	14865.61534	0.1187	0.12066	0.1145	0.12582	2.58E-03	2.79E-07	2.47E-07	2.69E-07	2.48E-07	2.5794E-03
520054.57	4258247.01	14856.30836	0.17008	9.7882	0.17936	7.01779	2.58E-03	3.99E-07	2.01E-05	4.21E-07	1.38E-05	2.6115E-03
520009.19	4258458.73	14840.57631	0.32975	2.65368	0.35317	2.32304	2.57E-03	7.74E-07	5.44E-06	8.29E-07	4.57E-06	2.5856E-03
520741.28	4258693.23	14834.9504	0.1091	0.0991	0.10606	0.10177	2.57E-03	2.56E-07	2.03E-07	2.49E-07	2.00E-07	2.5740E-03
520697.87	4258457.73	14822.34055	0.11739	0.11996	0.11345	0.12517	2.57E-03	2.76E-07	2.46E-07	2.66E-07	2.46E-07	2.5739E-03
520705.42	4258580.22	14820.53233	0.11731	0.11441	0.11321	0.11845	2.57E-03	2.75E-07	2.35E-07	2.66E-07	2.33E-07	2.5716E-03
520720.71	4258336.62	14806.72886	0.10765	0.11583	0.10453	0.12042	2.57E-03	2.53E-07	2.38E-07	2.45E-07	2.37E-07	2.5691E-03
520011.26	4258429.45	14802.62341	0.28763	1.79869	0.30536	1.44862	2.57E-03	6.75E-07	5.74E-06	7.17E-07	4.82E-06	2.5794E-03
520725.1	4258637.22	14789.16945	0.11265	0.10612	0.10883	0.10947	2.57E-03	2.64E-07	2.18E-07	2.55E-07	2.15E-07	2.5661E-03
520119.81	4258122.44	14785.16607	0.14115	7.85414	0.14269	9.20502	2.56E-03	3.31E-07	1.61E-05	3.35E-07	1.81E-05	2.5993E-03
520695.69	4258532.76	14783.72937	0.11938	0.11909	0.11486	0.12353	2.56E-03	2.80E-07	2.44E-07	2.70E-07	2.43E-07	2.5652E-03
519910.75	4258691.91	14783.43051	0.34655	0.59226	0.37302	0.56925	2.56E-03	8.14E-07	1.21E-06	8.76E-07	1.12E-06	2.5681E-03
520715.26	4258608.72	14770.43226	0.11496	0.11008	0.11098	0.1139	2.56E-03	2.70E-07	2.26E-07	2.61E-07	2.24E-07	2.5628E-03
520042.85	4259334.55	14764.49393	5.46518	0.15152	7.9915	0.13239	2.56E-03	1.28E-05	2.78E-07	1.88E-05	2.61E-07	2.5930E-03
520734.94	4258665.73	14755.85206	0.11037	0.10224	0.1069	0.10511	2.56E-03	2.59E-07	2.10E-07	2.51E-07	2.07E-07	2.5603E-03
520064	4258223.15	14746.21532	0.16295	17.40711	0.17112	9.81808	2.56E-03	3.83E-07	3.57E-05	4.02E-07	1.93E-05	2.6135E-03
519927.12	4258655.32	14742.89504	0.36031	0.71407	0.39121	0.68444	2.56E-03	8.46E-07	1.46E-06	9.18E-07	1.35E-06	2.5617E-03
520725.74	4258272.21	14734.39648	0.10407	0.11518	0.10181	0.12024	2.56E-03	2.44E-07	2.36E-07	2.39E-07	2.37E-07	2.5566E-03
520092.82	4259365.29	14724.19497	12.63571	0.13626	11.09954	0.1301	2.55E-03	2.97E-05	2.79E-07	2.61E-05	2.56E-07	2.6101E-03
520018.73	4258361.68	14702.17606	0.22112	3.30649	0.23196	2.86913	2.55E-03	5.19E-07	6.78E-06	5.45E-07	5.65E-06	2.5635E-03
520695.75	4258523.27	14690.86864	0.11918	0.11925	0.11465	0.12381	2.55E-03	2.80E-07	2.45E-07	2.69E-07	2.44E-07	2.5491E-03
519895.62	4258727.77	14680.97162	0.33373	0.50051	0.35866	0.48214	2.55E-03	7.83E-07	1.03E-06	8.42E-07	9.49E-07	2.5499E-03
520725.54	4258297.55	14673.90199	0.10513	0.1146	0.10242	0.11959	2.55E-03	2.47E-07	2.35E-07	2.40E-07	2.35E-07	2.5461E-03
519868.48	4258807	14666.98087	0.32178	0.36578	0.34035	0.35519	2.54E-03	7.55E-07	7.50E-07	7.99E-07	6.99E-07	2.5469E-03
520100.14	4258152.38	14663.7744	0.14658	15.02436	0.15006	15.85514	2.54E-03	3.44E-07	3.08E-05	3.52E-07	3.12E-05	2.6061E-03
520053.18	4259344.53	14654.75487	7.69063	0.13481	14.97615	0.13118	2.54E-03	1.81E-05	2.76E-07	3.52E-05	2.58E-07	2.5955E-03
519860.78	4258836.65	14653.74431	0.32094	0.33185	0.3383	0.32239	2.54E-03	7.53E-07	6.81E-07	7.94E-07	6.35E-07	2.5445E-03
520047.43	4258259.95	14647.72851	0.1726	7.25673	0.18214	5.63286	2.54E-03	4.05E-07	1.49E-05	4.28E-07	1.11E-05	2.5674E-03
519949.85	4258609	14638.07597	0.38517	0.94644	0.42781	0.89773	2.54E-03	9.04E-07	1.94E-06	1.00E-06	1.77E-06	2.5445E-03
520720.52	4258361.97	14609.94761	0.10861	0.11524	0.10533	0.11973	2.53E-03	2.55E-07	2.36E-07	2.47E-07	2.36E-07	2.5350E-03
519854.6	4258863.81	14605.08885	0.32129	0.30531	0.33772	0.29665	2.53E-03	7.54E-07	6.26E-07	7.93E-07	5.84E-07	2.5359E-03
520705.48	4258570.74	14593.6653	0.11709	0.11475	0.11296	0.11881	2.53E-03	2.75E-07	2.35E-07	2.65E-07	2.34E-07	2.5322E-03
519847.71	4258908.04	14574.61512	0.32771	0.27013	0.34376	0.26273	2.53E-03	7.69E-07	5.54E-07	8.07E-07	5.17E-07	2.5305E-03
520019.85	4258351.23	14572.86798	0.21312	3.38911	0.22332	2.93651	2.53E-03	5.00E-07	6.95E-06	5.24E-07	5.78E-06	2.5414E-03
519880.93	4258764.68	14571.60298	0.32421	0.42591	0.34483	0.4126	2.53E-03	7.61E-07	8.74E-07	8.10E-07	8.12E-07	2.5306E-03
520037.9	4258283.86	14555.67372	0.18006	3.51391	0.18955	4.37136	2.52E-03	4.23E-07	1.09E-05	4.45E-07	8.60E-06	2.5450E-03
520750.32	4258719.53	14549.10918	0.10695	0.09513	0.10428	0.09781	2.52E-03	2.51E-07	1.95E-07	2.45E-07	1.93E-07	2.5244E-03
520012.95	4258394.02	14537.16838	0.24609	2.92041	0.25925	2.55849	2.52E-03	5.78E-07	5.99E-06	6.09E-07	5.04E-06	2.5336E-03
520082.92	4259365.31	14523.57991	15.70952	0.13463	17.25251	0.1292	2.52E-03	3.69E-05	2.76E-07	4.05E-05	2.54E-07	2.5970E-03
520747.53	4258702.25	14523.48259	0.10742	0.09707	0.10459	0.09968	2.52E-03	2.52E-07	1.99E-07	2.46E-07	1.96E-07	2.5199E-03
520735	4258656.24	14523.3266	0.11013	0.10269	0.10659	0.10567	2.52E-03	2.59E-07	2.11E-07	2.50E-07	2.08E-07	2.5199E-03
520725.16	4258627.74	14519.12696	0.11241	0.10649	0.10859	0.10997	2.52E-03	2.64E-07	2.18E-07	2.55E-07	2.16E-07	2.5192E-03
520014.14	4258383.54	14518.92111	0.23662	2.99651	0.24885	2.62189	2.52E-03	5.56E-07	6.15E-06	5.84E-07	5.16E-06	2.5307E-03
519917.12	4258673.87	14509.4049	0.34739	0.64051	0.37494	0.61505	2.52E-03	8.16E-07	1.31E-06	8.80E-07	1.21E-06	2.5208E-03
519863.72	4258819.63	14508.43744	0.31759	0.34848	0.3351	0.33865	2.52E-03	7.46E-07	7.15E-07	7.87E-07	6.67E-07	2.5193E-03
520109.99	4258132.41	14506.38579	0.14185	10.43818	0.14421	12.05007	2.52E-03	3.33E-07	3.39E-07	2.14E-05	3.39E-07	2.5619E-03
520724.09	4258345.48	14506.19695	0.10718	0.1144	0.10395	0.11889	2.52E-03	2.52E-07	2.35E-07	2.44E-07	2.34E-07	2.5170E-03
519959.77	4258589.57	14506.05203	0.39593	1.08894	0.44387	1.02148	2.52E-03	9.30E-07	2.23E-06	1.04E-06	2.01E-06	2.5222E-03
520715.32	4258599.24	14500.34474	0.11472	0.11047	0.11078	0.11435	2.52E-03	2.69E-07	2.27E-07	2.60E-07	2.25E-07	2.5160E-03
520698.09	4258484.15	14492.46164	0.11779	0.11934	0.11354	0.12432	2.51E-03	2.77E-07	2.45E-07	2.67E-07	2.45E-07	2.5147E-03
520729.17	4258281.21	14466.8689	0.10367	0.11355	0.1012	0.11858	2.51E-03	2.43E-07	2.33E-07	2.38E-07	2.33E-07	2.5102E-03
519904.67	4258701.35	14464.06876	0.33678	0.55816	0.36134	0.53741	2.51E-03	7.91E-07	1.14E-06	8.48E-07	1.06E-06	2.5126E-03
520054.94	4258236.87	14443.55596	0.16468	9.9189	0.17353	7.0919	2.51E-03	3.87E-07	2.03E-05	4.07E-07	1.40E-05	2.5403E-03
520015.14	4258373.14	14442.68389	0.2276	3.0623	0.23899	2.67703	2.51E-03	5.34E-07	6.28E-06	5.61E-07	5.27E-06	2.5177E-03
520043.28	4259344.55	14434.82779	5.55415	0.13304	8.22942	0.12997	2.50E-03	1.30E-05	2.73E-07	1.93E-05	2.56E-07	2.5365E-03
519885.52	4258531.26	14425.57278	0.41206	1.76187	0.45928	1.59249	2.50E-03	9.67E-07	3.61E-06	1.08E-06	3.13E-06	2.5108E-03
519871.47	4258790.09	14420.74264	0.31757	0.38468	0.33637	0.37346	2.50E-03	7.46E-07	7.89E-07	7.90E-07	7.35E-07	2.5043E-03
520744.83	4258684.75	14420.72666	0.10785	0.09881	0.10478	0.10145	2.50E-03	2.53E-07	2.03E-07	2.46E-07	2.00E-07	2.5021E-03
520701.29	4258466.69	14411.56046	0.11655	0.1185	0.11252	0.1236	2.50E-03	2.74E-07	2.44E-07	2.64E-07	2.43E-07	2.5006E-03
520020.82	4258340.84	14402.6648	0.20552	3.46188	0.21513	2.99744	2.50E-03	4.82E-07	7.10E-06	5.05E-07	5.90E-06	2.5121E-03
520728.99	4258306.62	14395.50825	0.10467	0.11323	0.10177	0.11805	2.50E-03	2.46E-07	2.32E-07	2.39E-07	2.32E-07	2.4978E-03
520705.53	4258561.26	14391.07705	0.11688	0.11504	0.11269	0.11913	2.50E-03	2.74E-07	2.36E-07	2.65E-07	2.35E-07	2.4971E-03
520092.84	4259375.29	14371.19927	12.60874	0.13369	10.98905	0.12771	2.49E-03	2.96E-05	2.74E-07	2.58E-05	2.51E-07	2.5485E-03
519969.69	4258570.13	14359.50609	0.40473	1.26526	0.45362	1.17316	2.49E-03	9.50E-07	2.59E-06	1.06E-06	2.31E-06	2.4975E-03
519999.4	4258502.12	14354.94726	0.38642	2.14822	0.42408	1.90778	2.49E-03	9.07E-07	4.41E-06	9.96E-07	3.76E-06	2.4999E-03
520053.2	4259354.53	14317.09151	7.75148	0.13229	15.27015	0.12876	2.48E-03	1.82E-05	2.71E-07	3.58E-05	2.53E-07	2.5378E-03
520064.24	4258213.06	14312.54883	0.15789	17.62013	0.16563	9.88711	2.48E-03	3.71E-07	3.61E-05	3.89E-07	1.95E-05	2.5388E-03
520119.84	4258112.44	14304.22998	0.13719	7.85872	0.13862	9.20207	2.48E-03	3.22E-07	1.61E-05	3.25E-07	1.81E-05	2.5159E-03
519846.01	4258897.39	14290.67221	0.31771	0.27522	0.33289	0.26764	2.48E-03	7.46E-07	5.64E-07	7.82E-07	5.27E-07	2.4813E-03
519979.61	4258550.69	14285.54215	0.41015	1.48279	0.45838	1.35989	2.48E-03	9.63E-07	3.04E-06	1.08E-06	2.68E-06	2.4855E-03
520720.43	4258387.62	14284.43809	0.10943	0.11445	0.10611	0.11899	2.48E-03	2.57E-07	2.35E-07	2.49E-07	2.34E-07	2.4785E-03
520735.05	4258646.76	14279.25377	0.1099	0.10309	0.10631	0.10619	2.48E-03	2.58E-07	2.11E-07	2.50E-07	2.09E-07	2.4776E-03
519889.13	4258736.23	14257.67052	0.32301	0.47329	0.34491	0.45729	2.47E-03	7.58E-07	9.71E-07	8.10E-07	9.00E-07	2.4764E-03
520723.91	4258370.89	14255.78725	0.10804	0.11383	0.10475	0.11825	2.47E-03	2.54E-07	2.33E-07	2.46E-07	2.33E-07	2.4736E-03
520725.21	4258618.26	14249.32684	0.11217	0.10687	0.10838	0.11046	2.47E-03	2.63E-07	2.19E-07	2.54E-07	2.17E-07	2.4724E-03
520715.37	4258589.76	14245.14559	0.11449	0.11087	0.11057	0.11478	2.47E-03	2.69E-07	2.27E-07	2.60E-07	2.26E-07	2.4717E-03
520007.6	4258438.34	14243.98891	0.29317	2.59818	0.31161	2.28841	2.47E-03	6.88E-07	5.33E-06	7.32E-07	4.50E-06	2.4818E-03
520027.77	4258308.01	14240.00197	0.18762	4.06165	0.19657	3.46285	2.47E-03	4.40E-07	8.33E-06	4.61E-07	6.82E-06	2.4859E-03
520744.89	4258675.26	14227.85486	0.10764	0.0993	0.10445	0.10199	2.47E-03	2.53E-07	2.04E-07	2.45E-07	2.01E-07	2.4687E-03
520705.58	4258551.78	14216.16103	0.11668	0.11535	0.11243	0.11947	2.47E-03	2.74E-07	2.37E-07	2.64E-07	2.35E-07	2.4667E-03
520038.43	4258273.65	14212.86357	0.17416	1.38672	0.18337	4.42712	2.47E-03	4.09E-07	1.10E-05	4.30E-07	8.71E-06	2.4858E-03
520700.84	4258511.46	14206.74688	0.1174	0.11785	0.11299	0.12244	2.46E-03	2.76E-07	2.42E-07	2.65E-07	2.41E-07	2.4651E-03
520732.6	4258290.22	14204.35118	0.10323	0.11227	0.10058	0.11718	2.46E-03	2.42E-07	2.30E-07	2.36E-07	2.31E-07	2.4646E-03
520021.66	4258330.5	14200.33809	0.19828	3.52608	0.20742	3.05073	2.46E-03	4.65E-07	7.23E-06	4.87E-07	6.01E-06	2.4772E-03
520100.17	4258142.38	14196.26664	0.14233	15.04492	0.1456	15.91239	2.46E-03	3.34E-07	3.09E-05	3.42E-07	3.13E-05	2.5251E-03
520753.95	4258710.86	14193.44198	0.10571	0.09495	0.10303	0.09754	2.46E-03	2.48E-07	1.95E-07	2.42E-07	1.92E-07	2.4627E-03
520082.94	4259375.31	14183.30432	15.65256	0.13212	17.01862	0.12685	2.46E-03	3.67E-05	2.71E-07	4.00E-05	2.50E-07	2.5373E-03
520727.46	4258354.35	14182.52505	0.10663	0.11307	0.10339	0.11744	2.46E-03	2.50E-07	2.32E-07	2.43E-07	2.31E-07	2.4609E-03
520701.18	4258502.33	14169.80421	0.11715	0.11796	0.11279	0.12265	2.46E-03	2.75E-07	2.42E-07	2.65E-07	2.41E-07	2.4587E-03
520701.53	4258493.19	14162.80034	0.1169	0.118	0.11261	0.1228	2.46E-03	2.74E-07	2.42E-07	2.64E-07	2.42E-07	2.4575E-03
520751.18	4258693.53	14126.86506	0.10616	0.09681	0.1033	0.09937	2.45E-03	2.49E-07	1.99E-07	2.43E-07	1.96E-07	2.4511E-03
520732.44	4258315.68	14117.04144	0.10417	0.11199	0.10116	0.11663	2.45E-03	2.45E-07	2.30E-07	2.37E-07	2.30E-07	2.4495E-03
520043.3	4259354.55	14106.81781	5.57877	0.13058	8.31975	0.12758	2.45E-03	1.31E-05	2.68E-07	1.95E-05	2.51E-07	2.4799E-03
519874.37	4258772.97	14082.80594	0.3123	0.40479	0.33127	0.39271	2.44E-03	7.33E-07	8.30E-07	7.78E-07	7.73E-07	2.4457E-03
519883.66	4258747.14	14075.29301	0.31674	0.44886	0.33762	0.43423	2.44E-03	7.44E-07	9.21E-07	7.93E-07	8.55E-07	2.4446E-03
520045.69	4258250.68	14075.2646	0.16614	6.78528	0.17518	5.35522	2.44E-03	3.90E-07	1.39E-05	4.11E-07	1.05E-05	2.4665E-03
520705.64	4258542.29	14069.38826	0.11648	0.11556	0.11217	0.11974	2.44E-03	2.73E-07	2.37E-07	2.63E-07	2.36E-07	2.4413E-03
519898.33	4258710.17	14061.21806	0.32564	0.52695	0.34881	0.50795	2.44E-03	7.64E-07	1.08E-06	8.19E-07	1.00E-06	2.4425E-03
520055.28	4258226.75	14044.48202	0.15957	10.04245	0.16802	7.15987	2.44E-03	3.75E-07	2.06E-05	3.94E-07	1.41E-05	2.4714E-03
520110.02	4258122.41	14042.49321	0.13785	10.44651	0.14005	12.04597	2.44E-03	3.24E-07	3.29E-07	2.14E-05	2.27E-05	2.4814E-03
519850.96	4258855.16	14040.68429	0.30668	0.30698	0.32205	0.29854	2.44E-03	7.20E-07	6.30E-07	7.56E-07	5.88E-07	2.4380E-03
520092.85	4259385.29	14036.80581	12.48859	0.13124	10.8918	0.12542	2.43E-03	2.93E-05	2.69E-07	2.56E-05	2.47E-07	2.4900E-03
520704.7	4258475.65	14035.27931	0.11568	0.11719	0.1116	0.12213	2.43E-03	2.72E-07	2.40E-07	2.62E-07	2.40E-07	2.4354E-03
519847.6	4258870.98	14027.11967	0.30735	0.29316	0.32225	0.2851	2.43E-03	7.22E-07	6.01E-07	7.57E-07	5.61E-07	2.4356E-03
520735.1	4258637.28	14026.46689	0.10968	0.10346	0.10607	0.10669	2.43E-03	2.57E-07	2.12E-07	2.49E-07	2.10E-07	2.4338E-03
520744.94	4258665.78	14019.30218	0.10742	0.09976	0.10414	0.10253	2.43E-03	2.52E-07	2.05E-07	2.44E-07	2.02E-07	2.4325E-03
520715.42	4258580.28	14008.34904	0.11427	0.1113	0.11036	0.11521	2.43E-03	2.68E-07	2.28E-07	2.59E-07	2.27E-07	2.4307E-03
520007.92	4258413.3	14005.02339	0.26059	2.63683	0.27533	2.32687	2.43E-03	6.12E-07	5.41E-06	6.46E-07	4.58E-06	2.4404E-03
520707.98	4258458.39	13996.83081	0.11445	0.11644	0.11059	0.12143	2.43E-03	2.69E-07	2.39E-07	2.60E-07	2.39E-07	2.4287E-03
520053.22	4259364.53	13990.65864	7.80478	0.12985	15.58313	0.12641	2.42E-03	1.83E-05	2.66E-07	3.66E-05	2.49E-07	2.4820E-03
519927.12	4258646.05	13987.66337	0.34887	0.72427	0.37905	0.69514	2.43E-03	8.19E-07	1.49E-06	8.90E-07	1.37E-06	2.4307E-03
519857.03	4258827.62	13986.3514	0.3052	0.33319	0.3213	0.3241	2.43E-03	7.17E-07	6.83E-07	7.54E-07	6.38E-07	2.4287E-03
520725.26	4258608.78	13983.95926	0.11195	0.10724	0.10819	0.11092	2.42E-03	2.63E-07	2.20E-07	2.54E-07	2.18E-07	2.4264E-03
520022.41	4258320.21	13976.28843	0.19144	3.58397	0.20017	3.09898	2.42E-03	4.49E-07	7.35E-06	4.

519907.12	4258683.15	13607.63183	0.32501	0.58641	0.3489	0.56469	2.36E-03	7.63E-07	1.20E-06	8.19E-07	1.11E-06	2.3641E-03
520715.53	4258561.31	13601.37858	0.11386	0.11194	0.10987	0.11587	2.36E-03	2.67E-07	2.30E-07	2.58E-07	2.28E-07	2.3601E-03
520110.05	4258112.41	13599.35505	0.13402	10.45566	0.1361	12.00483	2.36E-03	3.15E-07	2.14E-05	3.20E-07	2.36E-05	2.4045E-03
520745.05	4258646.82	13561.76708	0.10701	0.10051	0.10361	0.10351	2.35E-03	2.51E-07	2.06E-07	2.43E-07	2.04E-07	2.3531E-03
519959.73	4258579.87	13552.97295	0.38017	1.10675	0.42426	1.03673	2.35E-03	8.93E-07	2.27E-06	9.96E-07	2.04E-06	2.3569E-03
520754.89	4258675.32	13536.2278	0.10477	0.09692	0.10174	0.09951	2.35E-03	2.46E-07	1.99E-07	2.39E-07	1.96E-07	2.3487E-03
520730.71	4258388.74	13525.76086	0.10682	0.11105	0.10359	0.11539	2.35E-03	2.51E-07	2.28E-07	2.43E-07	2.27E-07	2.3469E-03
520734.21	4258372.08	13518.45524	0.10551	0.11038	0.1023	0.11462	2.34E-03	2.48E-07	2.26E-07	2.40E-07	2.26E-07	2.3457E-03
520004.35	4258421.99	13517.61263	0.26525	2.46118	0.28045	2.18456	2.34E-03	6.23E-07	5.05E-06	6.58E-07	4.30E-06	2.3552E-03
520735.21	4258618.32	13511.02193	0.10925	0.10414	0.10567	0.10761	2.34E-03	2.56E-07	2.14E-07	2.48E-07	2.12E-07	2.3444E-03
519843.98	4258862.39	13499.85382	0.2938	0.29463	0.30775	0.2868	2.34E-03	6.90E-07	6.04E-07	7.22E-07	5.65E-07	2.3441E-03
520009.85	4258365.34	13497.86049	0.21431	2.75852	0.22462	2.44038	2.34E-03	5.03E-07	5.66E-06	5.27E-07	4.80E-06	2.3526E-03
520727.27	4258405.59	13496.58946	0.10813	0.11159	0.10484	0.11609	2.34E-03	2.54E-07	2.29E-07	2.46E-07	2.29E-07	2.3419E-03
520725.37	4258589.82	13484.7708	0.11153	0.10795	0.10781	0.11172	2.34E-03	2.62E-07	2.21E-07	2.53E-07	2.20E-07	2.3398E-03
520043.33	4259374.55	13482.18444	5.64531	0.12587	8.50373	0.12303	2.34E-03	1.33E-05	2.58E-07	2.00E-05	2.42E-07	2.3721E-03
520079.67	4259395.72	13475.5324	16.36914	0.12678	20.03811	0.12202	2.34E-03	3.84E-05	2.60E-07	4.70E-05	2.40E-07	2.4232E-03
519840.47	4258877.85	13467.65591	0.29389	0.28178	0.30734	0.27429	2.34E-03	6.90E-07	5.78E-07	7.22E-07	5.40E-07	2.3384E-03
519847.32	4258846.51	13466.4475	0.29273	0.30827	0.30715	0.30012	2.34E-03	6.87E-07	6.32E-07	7.21E-07	5.91E-07	2.3383E-03
520761.2	4258693.53	13453.67071	0.1033	0.09456	0.10058	0.09701	2.33E-03	2.43E-07	1.94E-07	2.36E-07	1.91E-07	2.3343E-03
520011.11	4258354.84	13444.74143	0.20688	2.82895	0.21655	2.49953	2.33E-03	4.86E-07	5.80E-06	5.08E-07	4.92E-06	2.3436E-03
520715.58	4258551.83	13437.49698	0.11368	0.11221	0.10963	0.11618	2.33E-03	2.67E-07	2.30E-07	2.57E-07	2.29E-07	2.3317E-03
520710.84	4258511.83	13428.18787	0.11441	0.11467	0.11018	0.11905	2.33E-03	2.69E-07	2.35E-07	2.59E-07	2.34E-07	2.3301E-03
520723.92	4258422.64	13424.76196	0.10936	0.11221	0.10601	0.11684	2.33E-03	2.57E-07	2.30E-07	2.49E-07	2.30E-07	2.3294E-03
519969.65	4258560.43	13421.42302	0.38686	1.28331	0.43075	1.18952	2.33E-03	9.08E-07	2.63E-06	1.01E-06	2.34E-06	2.3348E-03
520742.88	4258317.23	13421.42057	0.10182	0.1086	0.09878	0.11301	2.33E-03	2.39E-07	2.23E-07	2.32E-07	2.22E-07	2.3288E-03
520063.61	4258193.35	13420.95286	0.14816	16.52504	0.15526	9.59285	2.33E-03	3.48E-07	3.39E-05	3.65E-07	1.89E-05	2.3813E-03
520029.82	4258277.2	13412.34215	0.16993	4.25475	0.17816	3.6214	2.33E-03	3.99E-07	8.73E-06	4.18E-07	7.13E-06	2.3430E-03
519979.56	4258541	13408.81911	0.39036	1.50209	0.4337	1.37707	2.33E-03	9.16E-07	3.08E-06	1.02E-06	2.71E-06	2.3334E-03
520711.18	4258502.7	13393.6232	0.11417	0.11499	0.1092	0.1192	2.32E-03	2.68E-07	2.35E-07	2.58E-07	2.35E-07	2.3241E-03
520711.52	4258493.57	13390.83229	0.11395	0.11468	0.10981	0.11927	2.32E-03	2.68E-07	2.35E-07	2.58E-07	2.35E-07	2.3236E-03
520053.25	4259384.53	13368.84592	7.97432	0.12518	16.24682	0.12192	2.32E-03	1.87E-05	2.57E-07	3.81E-05	2.40E-07	2.3761E-03
520046.56	4258230.35	13366.11498	0.15611	6.9574	0.1645	5.4729	2.32E-03	3.66E-07	1.43E-05	3.86E-07	1.08E-05	2.3441E-03
520720.65	4258439.94	13354.27753	0.11059	0.11271	0.10705	0.11748	2.32E-03	2.60E-07	2.31E-07	2.51E-07	2.31E-07	2.3172E-03
520012.19	4258344.4	13345.65486	0.19975	2.89047	0.2088	2.55239	2.31E-03	4.69E-07	5.93E-06	4.90E-07	5.02E-06	2.3267E-03
520089.58	4259405.71	13344.56976	13.34105	0.12603	12.14676	0.12073	2.31E-03	3.13E-05	2.58E-07	2.85E-05	2.38E-07	2.3746E-03
520754.94	4258665.84	13335.03518	0.10458	0.09735	0.10147	0.10002	2.31E-03	2.46E-07	2.00E-07	2.38E-07	1.97E-07	2.3138E-03
520100.23	4258122.38	13330.49556	0.13446	15.07372	0.13734	15.96652	2.31E-03	3.16E-07	3.09E-05	3.22E-07	3.14E-05	2.3751E-03
520036.8	4258254.35	13323.21804	0.16218	5.11207	0.1706	4.24758	2.31E-03	3.81E-07	1.05E-05	4.01E-07	8.36E-06	2.3305E-03
520739.34	4258359.68	13321.77189	0.10393	0.10904	0.10074	0.11319	2.31E-03	2.44E-07	2.24E-07	2.37E-07	2.23E-07	2.3115E-03
520745.1	4258637.34	13319.69126	0.10682	0.10083	0.1034	0.10397	2.31E-03	2.51E-07	2.07E-07	2.43E-07	2.05E-07	2.3111E-03
519853.29	4258818.59	13310.46106	0.29019	0.33431	0.30536	0.32548	2.31E-03	6.81E-07	6.86E-07	7.17E-07	6.41E-07	2.3114E-03
519900.89	4258692.25	13308.08877	0.3156	0.55324	0.33769	0.53354	2.31E-03	7.41E-07	1.13E-06	7.93E-07	1.05E-06	2.3119E-03
520005.75	4258387.01	13301.95688	0.22922	2.54609	0.2408	2.26479	2.31E-03	5.38E-07	5.22E-06	5.65E-07	4.46E-06	2.3179E-03
520715.64	4258542.35	13301.06866	0.11349	0.11247	0.10939	0.11648	2.31E-03	2.66E-07	2.31E-07	2.57E-07	2.29E-07	2.3080E-03
520018.88	4258311.68	13295.22742	0.18259	3.31427	0.19059	2.89457	2.31E-03	4.29E-07	6.80E-06	4.47E-07	5.70E-06	2.3194E-03
520714.75	4258476.17	13271.79658	0.11279	0.11387	0.10883	0.11859	2.30E-03	2.65E-07	2.34E-07	2.55E-07	2.33E-07	2.3029E-03
519885.46	4258727.38	13262.50169	0.30418	0.47176	0.32444	0.45597	2.30E-03	7.14E-07	9.68E-07	7.62E-07	8.98E-07	2.3037E-03
520725.42	4258580.33	13260.00173	0.11133	0.1083	0.10761	0.11307	2.30E-03	2.61E-07	2.22E-07	2.53E-07	2.21E-07	2.3008E-03
520735.26	4258608.84	13258.15945	0.10905	0.10449	0.1055	0.10804	2.30E-03	2.56E-07	2.14E-07	2.48E-07	2.13E-07	2.3005E-03
519927.12	4258636.77	13252.63084	0.33805	0.73424	0.36787	0.7053	2.30E-03	7.94E-07	1.51E-06	8.64E-07	1.39E-06	2.3032E-03
520742.79	4258342.87	13252.30622	0.10261	0.10892	0.09948	0.11246	2.30E-03	2.41E-07	2.24E-07	2.34E-07	2.21E-07	2.2995E-03
520718.07	4258459.03	13236.63954	0.11161	0.11309	0.10786	0.11788	2.30E-03	2.62E-07	2.32E-07	2.53E-07	2.32E-07	2.2968E-03
519870.64	4258763.99	13226.05349	0.29537	0.40485	0.31286	0.39295	2.29E-03	6.93E-07	8.30E-07	7.34E-07	7.74E-07	2.2970E-03
520000.29	4258456.11	13220.66004	0.30412	2.25667	0.32419	2.00938	2.29E-03	7.14E-07	4.63E-06	7.61E-07	3.96E-06	2.3031E-03
520013.14	4258334.02	13212.90196	0.19294	2.94594	0.20147	2.59929	2.29E-03	4.53E-07	6.04E-06	4.73E-07	5.12E-06	2.3038E-03
520715.69	4258532.87	13194.53009	0.11332	0.11268	0.10918	0.11676	2.29E-03	2.66E-07	2.31E-07	2.56E-07	2.30E-07	2.2895E-03
520043.35	4259384.55	13184.91109	5.70134	0.12362	8.59936	0.12084	2.29E-03	1.34E-05	2.54E-07	2.02E-05	2.38E-07	2.3209E-03
520737.59	4258380.94	13182.42671	0.10495	0.10898	0.10175	0.11319	2.29E-03	2.46E-07	2.24E-07	2.39E-07	2.23E-07	2.2874E-03
520054.39	4258207.14	13180.8256	0.14956	9.54213	0.15734	6.92649	2.29E-03	3.51E-07	1.96E-05	3.69E-07	1.36E-05	2.3201E-03
520079.68	4259405.72	13176.50391	16.11421	0.12454	19.76931	0.1199	2.29E-03	3.78E-05	2.55E-07	4.64E-05	2.36E-07	2.3701E-03
519861.14	4258789.3	13161.34504	0.28995	0.36735	0.30611	0.35726	2.28E-03	6.81E-07	7.53E-07	7.19E-07	7.03E-07	2.2856E-03
520734.11	4258397.66	13151.86666	0.10618	0.10972	0.103	0.11402	2.28E-03	2.49E-07	2.25E-07	2.42E-07	2.24E-07	2.2821E-03
519917.12	4258655.32	13142.27325	0.3266	0.65889	0.35232	0.63455	2.28E-03	7.67E-07	1.35E-06	8.27E-07	1.25E-06	2.2837E-03
519989.44	4258511.86	13134.84945	0.37127	1.80311	0.40832	1.62855	2.28E-03	8.72E-07	3.70E-06	9.59E-07	3.21E-06	2.2860E-03
520030.38	4258266.99	13126.57486	0.16463	4.30797	0.17266	3.66458	2.28E-03	3.86E-07	8.84E-06	4.05E-07	7.21E-06	2.2936E-03
520754.99	4258656.36	13120.78441	0.1044	0.09773	0.10123	0.1005	2.28E-03	2.45E-07	2.00E-07	2.38E-07	1.98E-07	2.2766E-03
520715.74	4258523.39	13117.85351	0.11316	0.11289	0.109	0.11706	2.28E-03	2.66E-07	2.32E-07	2.56E-07	2.30E-07	2.2762E-03
519879.86	4258738	13104.46814	0.29827	0.44779	0.31745	0.43338	2.27E-03	7.00E-07	9.18E-07	7.45E-07	8.53E-07	2.2761E-03
520730.69	4258414.57	13102.65092	0.10745	0.11024	0.10418	0.11472	2.27E-03	2.52E-07	2.26E-07	2.45E-07	2.26E-07	2.2735E-03
520019.75	4258301.33	13093.38073	0.17672	3.37395	0.18442	2.94481	2.27E-03	4.15E-07	6.92E-06	4.33E-07	5.80E-06	2.2846E-03
520745.16	4258627.86	13073.38184	0.10662	0.10118	0.10321	0.10443	2.27E-03	2.50E-07	2.08E-07	2.42E-07	2.06E-07	2.2684E-03
520764.83	4258684.86	13072.78467	0.10215	0.0942	0.09939	0.09664	2.27E-03	2.40E-07	1.93E-07	2.33E-07	1.90E-07	2.2683E-03
520725.48	4258570.85	13055.78547	0.11114	0.10861	0.10739	0.1124	2.26E-03	2.61E-07	2.23E-07	2.52E-07	2.21E-07	2.2654E-03
519856.17	4258801.44	13054.30318	0.28609	0.35052	0.30153	0.34115	2.26E-03	6.72E-07	7.19E-07	7.08E-07	6.72E-07	2.2670E-03
520013.97	4258323.69	13051.66667	0.18646	2.99478	0.19453	2.64122	2.26E-03	4.38E-07	6.14E-06	4.57E-07	5.20E-06	2.2760E-03
520063.85	4258183.26	13050.78713	0.14389	16.70083	0.15062	9.66763	2.26E-03	3.38E-07	3.43E-05	3.54E-07	1.90E-05	2.3176E-03
520090.41	4258132.35	13044.06622	0.13471	25.66983	0.13843	17.09441	2.26E-03	3.16E-07	5.26E-05	3.25E-07	3.37E-05	2.3494E-03
520089.6	4259415.71	13043.89012	13.20119	0.1238	12.01849	0.11864	2.26E-03	3.10E-05	2.54E-07	2.82E-05	2.34E-07	2.3221E-03
520000.77	4258430.68	13029.4315	0.26983	2.30145	0.28548	2.05423	2.26E-03	6.33E-07	4.72E-06	6.70E-07	4.04E-06	2.2700E-03
520727.36	4258431.7	13024.77862	0.10863	0.11083	0.10525	0.11543	2.26E-03	2.55E-07	2.27E-07	2.47E-07	2.27E-07	2.2600E-03
520046.94	4258220.2	13023.90875	0.15146	7.03249	0.15954	5.52358	2.26E-03	3.56E-07	1.44E-05	3.75E-07	1.09E-05	2.2850E-03
520037.34	4258244.14	13015.14398	0.15728	5.18007	0.16547	4.29917	2.26E-03	3.69E-07	1.06E-05	3.88E-07	8.46E-06	2.2773E-03
520735.32	4258599.35	13013.94234	0.10885	0.10483	0.10533	0.10843	2.26E-03	2.56E-07	2.15E-07	2.47E-07	2.13E-07	2.2581E-03
520742.82	4258368.8	12996.81183	0.10336	0.10771	0.10021	0.1118	2.25E-03	2.43E-07	2.21E-07	2.35E-07	2.20E-07	2.2552E-03
520049.96	4259394.95	12996.74451	7.20017	0.12234	12.75539	0.11933	2.25E-03	1.69E-05	2.51E-07	2.99E-05	2.35E-07	2.3016E-03
519894.59	4258701.16	12989.56257	0.30608	0.52283	0.32671	0.50485	2.25E-03	7.19E-07	1.07E-06	7.67E-07	9.94E-07	2.2565E-03
519907.12	4258673.87	12987.38325	0.31558	0.59486	0.33841	0.57362	2.25E-03	7.41E-07	1.22E-06	7.94E-07	1.13E-06	2.2565E-03
519939.85	4258609.05	12966.42429	0.34797	0.8582	0.38328	0.81876	2.25E-03	8.17E-07	1.76E-06	9.00E-07	1.61E-06	2.2541E-03
519840.37	4258853.79	12962.90919	0.28086	0.29579	0.29398	0.28824	2.25E-03	6.59E-07	6.07E-07	6.90E-07	5.67E-07	2.2509E-03
520746.24	4258351.93	12960.62073	0.10209	0.10704	0.09896	0.11109	2.25E-03	2.40E-07	2.20E-07	2.32E-07	2.19E-07	2.2489E-03
520724.13	4258449.06	12960.36727	0.10981	0.11134	0.10622	0.11604	2.25E-03	2.58E-07	2.28E-07	2.49E-07	2.28E-07	2.2489E-03
519833.48	4258885.03	12960.27665	0.28179	0.27104	0.29393	0.26406	2.25E-03	6.62E-07	5.56E-07	6.90E-07	5.20E-07	2.2503E-03
520718.13	4258485.06	12959.24161	0.11195	0.11268	0.10797	0.11724	2.25E-03	2.63E-07	2.31E-07	2.53E-07	2.31E-07	2.2487E-03
519836.75	4258869	12955.94208	0.28087	0.28317	0.2935	0.27591	2.25E-03	6.59E-07	5.81E-07	6.89E-07	5.43E-07	2.2496E-03
520100.26	4258112.38	12933.32263	0.13082	15.08266	0.13351	16.12367	2.24E-03	3.07E-07	3.09E-05	3.13E-07	3.17E-05	2.3065E-03
520106.08	4258102.11	12910.53662	0.12906	11.99693	0.13124	13.56271	2.24E-03	3.03E-07	3.08E-07	2.46E-05	2.67E-05	2.2912E-03
520755.05	4258646.88	12895.54311	0.10422	0.09804	0.10101	0.10094	2.24E-03	2.45E-07	2.01E-07	2.37E-07	1.99E-07	2.2376E-03
520764.89	4258675.38	12891.79233	0.102	0.09462	0.09913	0.09712	2.24E-03	2.39E-07	1.94E-07	2.33E-07	1.91E-07	2.2369E-03
520079.7	4259415.72	12888.76323	15.85025	0.12237	19.49327	0.11785	2.24E-03	3.72E-05	2.51E-07	4.58E-05	2.32E-07	2.3190E-03
520721.43	4258467.85	12886.57406	0.11081	0.11189	0.10702	0.11655	2.24E-03	2.60E-07	2.29E-07	2.51E-07	2.29E-07	2.2361E-03
519843.68	4258837.86	12884.04621	0.27942	0.30926	0.29302	0.30139	2.23E-03	6.56E-07	6.34E-07	6.88E-07	5.93E-07	2.2373E-03
520020.53	4258291.03	12876.4942	0.17113	3.42831	0.1786	2.98985	2.23E-03	4.02E-07	7.03E-06	4.19E-07	5.89E-06	2.2471E-03
520725.53	4258561.37	12876.3508	0.11096	0.10896	0.10717	0.11275	2.23E-03	2.60E-07	2.23E-07	2.52E-07	2.22E-07	2.2343E-03
520000.91	4258406.07	12836.04019	0.24184	2.32534	0.25454	2.08075	2.23E-03	5.68E-07	4.77E-06	5.98E-07	4.10E-06	2.2364E-03
520054.73	4258197.01	12831.59383	0.14523	9.65938	0.15268	6.99027	2.23E-03	3.41E-07	1.98E-05	3.58E-07	1.38E-05	2.2599E-03
520740.97	4258389.81	12831.1545	0.10433	0.10773	0.10119	0.11191	2.23E-03	2.45E-07	2.21E-07	2.38E-07	2.20E-07	2.2264E-03
520745.21	4258618.37	12827.66543	0.10643	0.10152	0.10305	0.10487	2.22E-03	2.50E-07	2.08E-07	2.42E-07	2.06E-07	2.2258E-03
519949.77	4258589.61	12826.62717	0.35715	0.97771	0.39649	0.92395	2.22E-03	8.38E-07	2.01E-06	9.31E-07	1.82E-06	2.2303E-03
520040.06	4259394.96	12823.37819	5.21773	0.12085	7.47668	0.11828	2.22E-03	1.22E-05	2.48E-07	1.76E-05	2.33E-07	2.2544E-03
519864.08	4258772.27	12815.50683	0.28518	0.38545	0.30136	0.37461	2.22E-03	6.70E-07	7.91E-07	7.07E-07	7.37E-07	2.2257E-03
520735.37	4258589.87	12783.93522	0.10867	0.10514	0.10516	0.10878	2.22E-03	2.55E-07	2.16E-07	2.47E-07	2.14E-07	2.2182E-03
520737.5	4258406.59	12782.38221	0.10554	0.10838	0.10238	0.11267	2.22E-03	2.48E-07	2.22E-07	2.40E-07	2.22E-07	2.2180E-03
519996.63	4258465	12781.94091	0.30942	2.1098	0.33065	1.88733	2.22E-03	7.26E-07	4.33E-06	7.76E-07	3.72E-06	2.2265E-03
520089.62	4259425.71	12753.94116	13.03529	0.12163	11.8887	0.11661	2.21E-03	3.06E-05	2.49E-07	2.79E-05	2.30E-07	2.2711E-03
519873.42	4258746.56	12747.44338	0.28887	0.42517	0.30635	0.41225	2.21E-03	6.78E-07	8.72E-07	7.19E-07	8.12E-07	2.2141E-03
520725.58	4258551.89	12722.11779	0.11078	0.10925	0.10694	0.11306	2.21E-03	2.60E-07	2.24E-07	2.51E-07	2.23E-07	2.2076E-03
520734.11	4258423.56	12713.02113	0.10673	0.10894	0.10348	0.11339	2.21E-03	2.51E-07	2.23E-07	2.43E-07	2.23E-07	2.2060E-03
520049.98	4259404.95	12712.62167	7.31155	0.1202	12.97143	0.11727	2.20E-03	1.72E-05	2.47E-07	3.05E-05	2.31E-07	2.2530E-03
520720.83	4258512.21	12711.78671	0.11154	0.11153	0.10748	0.11573	2.20E-03	2.62E-07	2.29E-07	2.52E-07	2.28E-07	2.2058E-03
520037.84	4258233.95	12711.42201	0.15262	5.24363	0.1606	4.34703	2.20E-03	3.58E-07	1.08E-05	3.77E-07	8.56E-06	2.2248E-03
519979.52	4258531.3	12699.51655	0.27207	1.52051	0.41104	1.39331	2.20E-03	8.74E-07	3.12E-06	9.65E-07	2.74E-06	2.2104E-03
520764.94	4258665.9	12697.6504	0.10184	0.095	0.09889	0.09759	2.20E-03	2.39E-07	1.95E-07	2.32E-07	1.92E-07	2.2032E-03
519989.4	4258502.16	12692.8227	0.35279	1.82147	0.38543	1.64454	2.20E-03	8.28E-07	3.74E-06	9.05E-07	3.24E-06	2.2102E-03
520064.08	4258173.18	12690.69499	0.13982	16.86979	0.14622	9.72724	2.20E-03	3.28E-07	3.46E-05	3.43E-07	1.91E-05	2.2556E-03
519959.69	4258570.17	12683.05881	0.36479	1.12301	0.40466	1.05109	2.20E-03	8.56E-07	2.30E-06	9.50E-07	2.07E-06	2.2060E-03
520721.17	4258503.08	12681.36046	0.11132	0.11155	0.1073	0.11584	2.20E-03	2.61E-07	2.29E-07	2.52E-07	2.28E-07	2.2005E-03
520721.51	4258493.94	12678.48547	0.11111	0.11155	0.10713	0.11594	2.20E-03	2.61E-07	2.29E-07	2.52E-07	2.28E-07	2.2000E-03
520746.29	4258377.93	12664.02533	0.10277	0.10641	0.09967	0.11046	2.20E-03	2.41E-07	2.18E-07	2.34E-07	2.17E-07	2.1974E-03
520755.1	4258637.39	12663.80033	0.10405	0.09834	0.10082	0.10137	2.20E-03	2.44E-07	2.02E-07	2.37E-07	2.00E-07	2.1974E-03
520749.7	4258361	12661.82883	0.10156	0.10573	0.09845	0.10973	2.20E-03	2.38E-07	2.17E-07	2.31E-07	2.16E-07	2.1970E-03
520090.44	4258122.35	12661.29794	0.13104	25.70709	0.13455	17.29996	2.20E-03	3.08E-07	5.27E-05	3.16E-07	3.41E-05	2.2834E-03
520021.22	4258280.75	12646.67152	0.16581	3.47589	0.17307	3.0309	2.19E-03	3.89E-07	7.13E-06	4.06E-07	5.97E-06	2.2074E-03
520730.81	4258440.75	12638.73373	0.10788	0.10952	0.10447	0.11407	2.19E-03	2.53E-07	2.25E-07	2.45E-07	2.25E-07	2.1931E-03
519849.54	4258809.56	12630.97046	0.27591	0.31509	0.29021	0.32644	2.19E-03	6.48E-07	6.87E-07	6.81E-07	6.43E-07	2.1934E-03
519888.22	4258709.92	12628.90984	0.29574	0.49506	0.31596	0.47803	2.19E-03	6.94E-07	1.02E-06	7.42E-07	9.41E-07	2.1938E-03
520079.72	4259425.72	12617.15597	15.41232	0.1203	19.24512	0.11588	2.19E-03	3.62E-05	2.47E-07	4.52E-05	2.28E-07	2.2702E-03
519969.61	4258550.74	12607.01906	0.36988	1.2994	0.40935	1.20492	2.19E-03	8.68E-07	2.66E-06	9.61E-07	2.37E-06	2.1935E-03
520753.17	4258344.24	12604.90303	0.10028	0.10509	0.09722	0.10905	2.19E-03	2.35E-07	2.16E-07	2.28E-07	2.15E-07	2.1872E-03
520027.92	4258258.01	12601.08256	0.15829	4.04527	0.16581	3.47211	2.19E-03	3.72E-07	8.30E-06	3.89E-07	6.83E-06	2.2015E-03
520725.64	4258542.41	12594.2987	0.11061	0.1095	0.10672	0.11334	2.18E-03	2.60E-07	2.25E-07	2.51E-07	2.23E-07	2.1854E-03
520727.6	4258458.19	12591.43857	0.10901	0.11009	0.10538	0.11468	2.18E-03	2.56E-07	2.26E-07	2.47E-07	2.26E-07	2.1849E-03
520745.26	4258608.89	12587.01551	0.10625	0.10185	0.1029	0.10528	2.18E-03	2.49E-07	2.09E-07	2.42E-07	2.07E-07	2.1841E-03
520735.42	4258580.39	12570.67549	0.1085	0.10538	0.10496	0.10905	2.18E-03	2.55E-07	2.16E-07	2.46E-07	2.15E-07	2.1813E-03
520724.79	4258476.67	12567.99218	0.11	0.11072	0.10618	0.11523	2.18E-03	2.58E-07	2.27E-07	2.49E-07	2.27E-07	2.1808E-03
520045.43	4258210.84	12565.39333	0.14637	6.64334	0.15414	5.28473	2.18E-03	3.44E-07	1.36E-05	3.62E-07	1.04E-05	2.2041E-03
519997.2	4258439.37	12558.69888	0.27435	2.15685	0.29049	1.93475	2.18E-03	6.44E-07	4.42E-06	6.82E-07	3.81E-06	2.1878E-03
520040.08	4259404.96	12547.06365	5.27491	0.11875	7.55354	0.11625	2.18E-03	1.24E-05	2.44E-07	1.77E-05	2.29E-07	2.2068E-03
520106.11	4258092.11	12535.65858	0.12569	11.99699	0.1277	13.72723	2.17E-03	2.95E-07	2.46E-05	3.00E-07

520728.15	4258485.5	12279.09501	0.10919	0.1096	0.10536	0.11396	2.13E-03	2.56E-07	2.25E-07	2.47E-07	2.24E-07	2.1307E-03
520040.1	4259414.96	12278.77625	5.34353	0.11672	7.63229	0.11427	2.13E-03	1.25E-05	2.39E-07	1.79E-05	2.25E-07	2.1606E-03
520765.05	4258646.93	12275.72801	0.10153	0.09504	0.09849	0.09845	2.13E-03	2.38E-07	1.96E-07	2.31E-07	1.94E-07	2.1300E-03
520734.26	4258449.8	12275.54506	0.10713	0.10825	0.10367	0.11274	2.13E-03	2.52E-07	2.22E-07	2.43E-07	2.22E-07	2.1301E-03
520010.97	4258304.96	12257.93404	0.17221	2.82106	0.17925	2.5077	2.13E-03	4.04E-07	5.79E-06	4.21E-07	4.94E-06	2.1376E-03
520045.84	4258200.68	12254.68573	0.14222	6.72003	0.14973	5.33613	2.13E-03	3.34E-07	1.38E-05	3.52E-07	1.05E-05	2.1505E-03
520731.07	4258467.32	12249.48212	0.10819	0.10894	0.10454	0.1134	2.12E-03	2.54E-07	2.23E-07	2.45E-07	2.23E-07	2.1256E-03
519998.56	4258379.99	12234.75779	0.21419	2.24553	0.22437	2.02286	2.12E-03	5.03E-07	4.61E-06	5.27E-07	3.98E-06	2.1317E-03
519897.12	4258683.15	12233.26188	0.29648	0.54693	0.3164	0.52863	2.12E-03	6.96E-07	1.12E-06	7.43E-07	1.04E-06	2.1254E-03
520089.65	4259445.71	12212.86549	12.59876	0.11754	11.63442	0.11276	2.12E-03	2.96E-05	2.41E-07	2.73E-05	2.22E-07	2.1756E-03
520735.53	4258561.43	12208.31623	0.10816	0.10609	0.10456	0.10974	2.12E-03	2.54E-07	2.18E-07	2.45E-07	2.16E-07	2.1184E-03
520755.21	4258618.43	12195.04043	0.10371	0.09896	0.10052	0.10221	2.12E-03	2.43E-07	2.03E-07	2.36E-07	2.01E-07	2.1161E-03
519876.07	4258728.86	12181.82002	0.28142	0.4457	0.29871	0.4318	2.11E-03	6.61E-07	9.14E-07	7.01E-07	8.50E-07	2.1160E-03
520005.53	4258327.18	12180.25534	0.18167	2.54908	0.18933	2.28334	2.11E-03	4.27E-07	5.23E-06	4.44E-07	4.49E-06	2.1232E-03
519939.81	4258599.35	12176.30281	0.33603	0.87106	0.37019	0.82992	2.11E-03	7.89E-07	1.79E-06	8.69E-07	1.63E-06	2.1170E-03
520050.01	4259424.95	12171.18381	7.58902	0.11611	13.41094	0.11332	2.11E-03	1.78E-05	2.38E-07	3.15E-05	2.23E-07	2.1608E-03
520055.34	4258176.79	12167.95247	0.1372	9.85915	0.14402	7.09809	2.11E-03	3.22E-07	2.02E-05	3.38E-07	1.40E-05	2.1453E-03
520745.37	4258589.93	12136.97217	0.10592	0.10243	0.1026	0.10595	2.11E-03	2.49E-07	2.10E-07	2.41E-07	2.09E-07	2.1060E-03
520747.72	4258407.54	12133.34008	0.10309	0.10518	0.10002	0.10933	2.10E-03	2.42E-07	2.16E-07	2.35E-07	2.15E-07	2.1054E-03
519979.48	4258521.6	12123.42309	0.35485	1.53755	0.38981	1.40854	2.10E-03	8.33E-07	3.15E-06	9.15E-07	2.77E-06	2.1104E-03
519993.62	4258448.05	12117.00303	0.2788	2.02518	0.29555	1.82435	2.10E-03	6.55E-07	4.15E-06	6.94E-07	3.59E-06	2.1107E-03
520011.84	4258294.61	12093.41459	0.16691	2.86681	0.17363	2.54735	2.10E-03	3.92E-07	5.88E-06	4.08E-07	5.01E-06	2.1092E-03
520079.75	4259445.72	12081.47121	15.79727	0.11632	18.72106	0.1121	2.10E-03	3.71E-05	2.39E-07	4.40E-05	2.21E-07	2.1770E-03
519989.32	4258482.77	12079.85437	0.31952	1.85285	0.34446	1.67211	2.10E-03	7.50E-07	3.80E-06	8.09E-07	3.29E-06	2.1038E-03
520029.12	4258237.55	12079.63051	0.14918	4.1485	0.15641	3.55536	2.10E-03	3.50E-07	8.51E-06	3.67E-07	7.00E-06	2.1114E-03
520735.58	4258551.94	12062.82494	0.10801	0.10632	0.10434	0.10999	2.09E-03	2.54E-07	2.18E-07	2.45E-07	2.17E-07	2.0932E-03
520744.3	4258424.43	12054.89005	0.1042	0.10582	0.10106	0.11008	2.09E-03	2.45E-07	2.17E-07	2.37E-07	2.17E-07	2.0918E-03
520765.1	4258637.45	12054.53176	0.10138	0.09593	0.09833	0.09887	2.09E-03	2.38E-07	1.97E-07	2.31E-07	1.95E-07	2.0917E-03
520730.82	4258512.58	12050.9731	0.10878	0.10486	0.10349	0.11248	2.09E-03	2.55E-07	2.22E-07	2.46E-07	2.21E-07	2.0911E-03
520760.02	4258362.25	12043.50338	0.09925	0.10265	0.09626	0.10649	2.09E-03	2.33E-07	2.11E-07	2.26E-07	2.10E-07	2.0898E-03
519949.73	4258579.91	12035.94659	0.34403	0.99217	0.38027	0.93661	2.09E-03	8.08E-07	2.03E-06	8.93E-07	1.84E-06	2.0932E-03
520756.6	4258379.12	12034.98197	0.10042	0.10327	0.09742	0.10718	2.09E-03	2.36E-07	2.12E-07	2.29E-07	2.11E-07	2.0883E-03
519860.38	4258763.36	12033.15617	0.2704	0.38503	0.2853	0.37436	2.09E-03	6.35E-07	7.90E-07	6.70E-07	7.37E-07	2.0899E-03
519822.8	4258883.48	12031.95823	0.25909	0.26212	0.26951	0.25579	2.09E-03	6.08E-07	5.38E-07	6.33E-07	5.04E-07	2.0892E-03
520731.16	4258503.45	12023.42572	0.10859	0.10845	0.10471	0.11257	2.09E-03	2.55E-07	2.46E-07	2.22E-07	2.22E-07	2.0864E-03
520731.51	4258494.32	12021.08317	0.10839	0.10848	0.10456	0.11269	2.09E-03	2.54E-07	2.22E-07	2.45E-07	2.22E-07	2.0859E-03
520040.11	4259424.96	12019.83999	5.41791	0.11475	7.71109	0.11235	2.08E-03	1.27E-05	2.35E-07	1.81E-05	2.21E-07	2.1161E-03
519826.08	4258867.46	12990.63807	0.25803	0.27332	0.26894	0.26678	2.08E-03	6.06E-07	5.61E-07	6.31E-07	5.25E-07	2.0820E-03
520753.24	4258396.18	11986.87575	0.10156	0.10382	0.09856	0.10784	2.08E-03	2.38E-07	2.13E-07	2.31E-07	2.12E-07	2.0800E-03
519890.86	4258692.16	11980.2727	0.28815	0.51762	0.30677	0.50077	2.08E-03	6.76E-07	1.06E-06	7.20E-07	9.86E-07	2.0814E-03
519993.89	4258423.14	11979.06136	0.24956	2.0554	0.26293	1.85559	2.08E-03	5.86E-07	4.22E-06	6.17E-07	3.65E-06	2.0868E-03
520740.96	4258441.53	11977.77258	0.10528	0.10645	0.102	0.1108	2.08E-03	2.47E-07	2.18E-07	2.39E-07	2.18E-07	2.0784E-03
520036.47	4258214.54	11970.51088	0.14315	5.01769	0.15057	4.1931	2.08E-03	3.36E-07	1.03E-05	3.53E-07	8.25E-06	2.0955E-03
520755.26	4258608.95	11965.70498	0.10355	0.09928	0.1004	0.1026	2.08E-03	2.43E-07	2.04E-07	2.36E-07	2.02E-07	2.0763E-03
519845.8	4258800.53	11955.20778	0.26243	0.33548	0.27579	0.32699	2.07E-03	6.16E-07	6.88E-07	6.47E-07	6.44E-07	2.0762E-03
520107.29	4258074.19	11954.78216	0.12027	11.53685	0.12202	13.28157	2.07E-03	2.82E-07	2.37E-05	2.86E-07	2.61E-05	2.1239E-03
520046.23	4258190.53	11953.07557	0.13827	6.79314	0.14553	5.38525	2.07E-03	3.25E-07	1.39E-05	3.42E-07	1.06E-05	2.0984E-03
520063.54	4258153.43	11946.84478	0.13191	16.02437	0.13786	9.43431	2.07E-03	3.10E-07	3.29E-05	3.24E-07	1.86E-05	2.1242E-03
520735.64	4258542.46	11942.77135	0.10785	0.10658	0.10414	0.11029	2.07E-03	2.53E-07	2.19E-07	2.44E-07	2.17E-07	2.0724E-03
520096.32	4258092.08	11940.37032	0.1227	18.25557	0.12531	18.34495	2.07E-03	2.88E-07	3.74E-05	2.94E-07	3.61E-05	2.1451E-03
520734.55	4258476.44	11938.22306	0.10737	0.10371	0.10181	0.11213	2.07E-03	2.52E-07	2.21E-07	2.43E-07	2.21E-07	2.0716E-03
520745.42	4258580.45	11935.09625	0.10577	0.10269	0.10243	0.10622	2.07E-03	2.48E-07	2.11E-07	2.40E-07	2.09E-07	2.0710E-03
520737.7	4258458.86	11934.55778	0.10636	0.10708	0.10287	0.11146	2.07E-03	2.50E-07	2.20E-07	2.42E-07	2.19E-07	2.0709E-03
520050.03	4259434.95	11918.96021	7.72817	0.11417	13.66492	0.11144	2.07E-03	1.81E-05	2.34E-07	3.21E-05	2.19E-07	2.1180E-03
520012.62	4258284.3	11913.96795	0.16185	2.90839	0.16831	2.58291	2.07E-03	3.80E-07	5.96E-06	3.95E-07	5.08E-06	2.0782E-03
519969.56	4258541.04	11908.73189	0.35359	1.31493	0.38941	1.21897	2.07E-03	8.30E-07	2.70E-06	9.14E-07	2.40E-06	2.0724E-03
520019.04	4258261.68	11906.96371	0.15451	3.3041	0.16106	2.9022	2.07E-03	3.63E-07	6.78E-06	3.78E-07	5.71E-06	2.0784E-03
519829.31	4258851.31	11903.54626	0.25654	0.28504	0.26784	0.2783	2.06E-03	6.02E-07	5.85E-07	6.29E-07	5.48E-07	2.0670E-03
520084.71	4259456.12	11881.74333	14.1073	0.11492	14.22784	0.11053	2.06E-03	3.31E-05	2.36E-07	3.34E-05	2.18E-07	2.1278E-03
519869.66	4258737.5	11873.47415	0.27288	0.42364	0.28903	0.41093	2.06E-03	6.41E-07	8.69E-07	6.79E-07	8.09E-07	2.0624E-03
519833.14	4258836.61	11867.27345	0.25664	0.29735	0.26844	0.29028	2.06E-03	6.03E-07	6.10E-07	6.30E-07	5.71E-07	2.0607E-03
519959.65	4258560.47	11864.04826	0.34905	1.13651	0.38439	1.06443	2.06E-03	8.19E-07	2.33E-06	9.02E-07	2.10E-06	2.0639E-03
520055.61	4258166.69	11852.96095	0.13345	9.9536	0.14	7.14562	2.06E-03	3.13E-07	2.04E-05	3.29E-07	1.41E-05	2.0910E-03
520035.69	4258532.98	11849.73804	0.10771	0.10679	0.10396	0.11054	2.06E-03	2.53E-07	2.19E-07	2.44E-07	2.18E-07	2.0562E-03
519917.12	4258636.77	11844.39598	0.30782	0.67588	0.33314	0.65201	2.05E-03	7.23E-07	1.39E-06	7.82E-07	1.28E-06	2.0585E-03
520765.16	4258627.97	11830.2323	0.10123	0.09621	0.0982	0.09926	2.05E-03	2.38E-07	1.97E-07	2.31E-07	1.95E-07	2.0528E-03
519993.89	4258398.88	11823.69401	0.22528	2.07028	0.23627	1.87393	2.05E-03	5.29E-07	4.25E-06	5.55E-07	3.69E-06	2.0598E-03
520029.64	4258227.34	11819.04909	0.14493	4.1947	0.15204	3.59212	2.05E-03	3.40E-07	8.60E-06	3.57E-07	7.07E-06	2.0663E-03
520751.09	4258416.4	11791.58106	0.10246	0.1039	0.09939	0.10805	2.05E-03	2.41E-07	2.13E-07	2.33E-07	2.13E-07	2.0461E-03
520735.74	4258523.5	11783.27108	0.10758	0.1069	0.10379	0.11073	2.04E-03	2.53E-07	2.19E-07	2.44E-07	2.18E-07	2.0447E-03
519907.12	4258655.32	11780.79762	0.29794	0.61008	0.31971	0.58999	2.04E-03	6.99E-07	1.25E-06	7.51E-07	1.16E-06	2.0472E-03
520040.13	4259434.96	11770.74179	5.49993	0.11284	7.79856	0.11049	2.04E-03	1.29E-05	2.31E-07	1.83E-05	2.17E-07	2.0733E-03
520745.48	4258570.96	11751.98623	0.10561	0.10299	0.10224	0.10652	2.04E-03	2.48E-07	2.11E-07	2.40E-07	2.10E-07	2.0392E-03
520763.45	4258371.26	11748.21916	0.0987	0.10147	0.09577	0.10526	2.04E-03	2.32E-07	2.08E-07	2.25E-07	2.07E-07	2.0385E-03
520074.81	4259456.13	11746.51704	14.42934	0.11358	25.77511	0.10977	2.04E-03	3.39E-05	2.33E-07	6.05E-05	2.16E-07	2.1322E-03
520755.32	4258599.47	11745.45988	0.1034	0.09957	0.10027	0.10294	2.04E-03	2.43E-07	2.04E-07	2.35E-07	2.03E-07	2.0381E-03
520097.47	4258084.16	11738.06705	0.12055	17.26476	0.12298	17.8146	2.04E-03	2.83E-07	3.54E-05	2.89E-07	3.51E-05	2.1070E-03
520013.32	4258274.02	11722.50018	0.15701	2.9455	0.16327	2.61488	2.03E-03	3.69E-07	6.04E-06	3.83E-07	5.15E-06	2.0452E-03
519990.05	4258456.74	11716.47688	0.28318	1.90516	0.30079	1.7227	2.03E-03	6.65E-07	3.91E-06	7.06E-07	3.39E-06	2.0408E-03
520760.05	4258388.18	11707.82395	0.0998	0.1021	0.0969	0.10596	2.03E-03	2.34E-07	2.09E-07	2.27E-07	2.09E-07	2.0315E-03
519836.4	4258820.55	11707.00572	0.25461	0.31049	0.26678	0.30301	2.03E-03	5.98E-07	6.37E-07	6.26E-07	5.96E-07	2.0330E-03
520747.7	4258433.35	11705.48582	0.1035	0.10462	0.10035	0.10884	2.03E-03	2.43E-07	2.15E-07	2.36E-07	2.14E-07	2.0312E-03
519884.52	4258701	11704.51647	0.27958	0.4906	0.29732	0.47487	2.03E-03	6.56E-07	1.01E-06	6.98E-07	9.35E-07	2.0334E-03
520036.96	4258204.35	11696.79983	0.1392	5.07521	0.14642	4.23562	2.03E-03	3.27E-07	1.04E-05	3.44E-07	8.34E-06	2.0482E-03
520019.75	4258251.4	11691.25483	0.15006	3.35222	0.15652	2.94191	2.03E-03	3.52E-07	6.88E-06	3.67E-07	5.79E-06	2.0412E-03
519853.81	4258771.61	11685.86542	0.26156	0.36724	0.27541	0.35745	2.03E-03	6.14E-07	7.53E-07	6.47E-07	7.04E-07	2.0296E-03
519897.12	4258673.87	11681.57349	0.28844	0.55387	0.30758	0.53619	2.03E-03	6.77E-07	1.14E-06	7.22E-07	1.06E-06	2.0297E-03
520050.05	4259445.95	11674.51042	7.86108	0.1123	13.94759	0.10964	2.02E-03	1.85E-05	2.30E-07	3.27E-05	2.16E-07	2.0765E-03
519979.44	4258511.9	11670.54364	0.33868	1.55357	0.37008	1.42282	2.02E-03	7.95E-07	3.19E-06	8.69E-07	2.80E-06	2.0319E-03
520738.02	4258485.57	11659.7419	0.10656	0.1067	0.10289	0.11086	2.02E-03	2.50E-07	2.19E-07	2.42E-07	2.18E-07	2.0233E-03
520046.59	4258180.4	11659.59405	0.13452	6.86117	0.14151	5.4277	2.02E-03	3.16E-07	1.41E-05	3.32E-07	1.07E-05	2.0477E-03
520756.72	4258405.31	11647.61068	0.10094	0.10253	0.09796	0.10655	2.02E-03	2.37E-07	2.10E-07	2.30E-07	2.10E-07	2.0211E-03
520744.38	4258450.51	11639.39312	0.10454	0.10529	0.10123	0.10956	2.02E-03	2.45E-07	2.16E-07	2.38E-07	2.16E-07	2.0197E-03
520063.76	4258143.35	11631.13195	0.1284	16.22394	0.13409	9.4817	2.02E-03	3.01E-07	3.33E-05	3.15E-07	1.87E-05	2.0699E-03
520084.73	4259466.12	11630.84794	13.77693	0.11304	13.98689	0.10876	2.02E-03	3.23E-05	2.32E-07	3.28E-05	2.14E-07	2.0829E-03
520741.15	4258467.91	11617.89946	0.10556	0.10206	0.10359	0.11023	2.02E-03	2.48E-07	2.17E-07	2.40E-07	2.17E-07	2.0160E-03
519848.63	4258783.24	11616.02611	0.25798	0.35085	0.27128	0.34179	2.01E-03	6.06E-07	7.20E-07	6.37E-07	6.73E-07	2.0174E-03
520107.32	4258064.19	11614.82128	0.11726	11.54345	0.1189	13.28956	2.01E-03	2.75E-07	2.37E-05	2.79E-07	2.62E-05	2.0649E-03
520765.21	4258618.49	11607.65013	0.10109	0.0965	0.09808	0.09965	2.01E-03	2.37E-07	1.98E-07	2.30E-07	1.96E-07	2.0142E-03
520745.53	4258561.48	11591.58988	0.10546	0.1033	0.10205	0.10682	2.01E-03	2.48E-07	2.12E-07	2.40E-07	2.10E-07	2.0114E-03
519819.13	4258874.75	11572.79623	0.24826	0.263	0.25817	0.25691	2.01E-03	5.83E-07	5.39E-07	6.06E-07	5.06E-07	2.0095E-03
519928.85	4258609.09	11571.9195	0.31649	0.78265	0.34614	0.75038	2.01E-03	7.43E-07	1.61E-06	8.13E-07	1.48E-06	2.0117E-03
519863.19	4258746.03	11564.74219	0.26447	0.40319	0.27958	0.39154	2.01E-03	6.21E-07	8.27E-07	6.56E-07	7.71E-07	2.0087E-03
520001.12	4258319.01	11561.47168	0.17311	2.35762	0.18013	2.12849	2.01E-03	4.06E-07	4.84E-06	4.23E-07	4.19E-06	2.0151E-03
519990.38	4258431.67	11559.43407	0.25332	1.93677	0.26699	1.75597	2.00E-03	5.95E-07	3.97E-06	6.27E-07	3.46E-06	2.0136E-03
520755.37	4258589.98	11538.22886	0.10326	0.09985	0.10013	0.10325	2.00E-03	2.42E-07	2.05E-07	2.35E-07	2.03E-07	2.0021E-03
520040.15	4259444.96	11529.83938	5.58981	0.11098	7.89275	0.10869	2.00E-03	1.31E-05	2.28E-07	1.85E-05	2.14E-07	2.0319E-03
520074.83	4259466.13	11500.63861	14.3175	0.11173	25.2064	0.10801	1.99E-03	3.36E-05	2.29E-07	5.92E-05	2.13E-07	2.0880E-03
519822.39	4258858.67	11494.11395	0.24695	0.27402	0.2573	0.26774	1.99E-03	5.80E-07	5.62E-07	6.04E-07	5.27E-07	1.9959E-03
520054.59	4258157.12	11474.88823	0.1295	9.45464	0.13587	6.8905	1.99E-03	3.04E-07	1.94E-05	3.19E-07	1.36E-05	2.0238E-03
520020.39	4258241.14	11469.35438	0.14581	3.38971	0.15216	2.9737	1.99E-03	3.42E-07	6.95E-06	3.57E-07	5.85E-06	2.0028E-03
520002.19	4258308.58	11466.04232	0.16786	2.40161	0.1745	2.16658	1.99E-03	3.94E-07	4.93E-06	4.10E-07	4.26E-06	1.9987E-03
520745.58	4258552	11454.28654	0.10533	0.10354	0.10185	0.10707	1.99E-03	2.47E-07	2.12E-07	2.39E-07	2.11E-07	1.9876E-03
520754.47	4258425.27	11452.73628	0.10179	0.10273	0.09873	0.10686	1.99E-03	2.39E-07	2.11E-07	2.32E-07	2.10E-07	1.9873E-03
519994.93	4258351.52	11446.81165	0.18874	2.12186	0.19687	1.92717	1.99E-03	4.43E-07	4.35E-06	4.62E-07	3.79E-06	1.9944E-03
519939.77	4258589.65	11446.76697	0.32451	0.88393	0.35707	0.84077	1.99E-03	7.62E-07	1.81E-06	8.38E-07	1.66E-06	1.9905E-03
520766.88	4258380.26	11443.98906	0.09812	0.10033	0.09527	0.10407	1.98E-03	2.30E-07	2.06E-07	2.24E-07	2.05E-07	1.9858E-03
520740.81	4258512.96	11439.92732	0.10613	0.10549	0.1024	0.10936	1.98E-03	2.49E-07	2.16E-07	2.40E-07	2.15E-07	1.9851E-03
519993.61	4258362.05	11436.14783	0.19491	2.07488	0.20347	1.88569	1.98E-03	4.58E-07	4.26E-06	4.78E-07	3.71E-06	1.9925E-03
520037.42	4258194.17	11428.96272	0.13541	5.13176	0.14247	4.27669	1.98E-03	3.18E-07	1.05E-05	3.34E-07	8.42E-06	2.0019E-03
520050.06	4259454.95	11427.61853	8.09177	0.11042	14.20794	0.10783	1.98E-03	1.90E-05	2.26E-07	3.34E-05	2.12E-07	2.0349E-03
519996.08	4258341.06	11419.63228	0.18276	2.16383	0.19048	1.96419	1.98E-03	4.29E-07	4.44E-06	4.47E-07	3.87E-06	1.9899E-03
520741.16	4258503.83	11413.85342	0.10594	0.10552	0.10223	0.10946	1.98E-03	2.49E-07	2.16E-07	2.40E-07	2.15E-07	1.9806E-03
519878.13	4258709.69	11413.29674	0.27083	0.46558	0.28794	0.45079	1.98E-03	6.36E-07	9.55E-07	6.76E-07	8.87E-07	1.9827E-03
520741.5	4258494.69	11412.88106	0.10576	0.10558	0.10209	0.1096	1.98E-03	2.48E-07	2.17E-07	2.40E-07	2.16E-07	1.9804E-03
520097.5	4258074.16	11409.83044	0.11752	17.28431	0.11981	17.82044	1.98E-03	2.76E-07	3.54E-05	2.81E-07	3.51E-05	2.0501E-03
520027.51	4258218.24	11395.77086	0.13996	3.97313	0.14671	3.42692	1.98E-03	3.29E-07	8.15E-06	3.44E-07	6.75E-06	1.9921E-03
520763.5	4258397.25	11392.10153	0.09922	0.10035	0.09635	0.10472	1.98E-03	2.33E-07	2.07E-07	2.26E-07	2.06E-07	1.9768E-03
520765.26	4258609	11389.44132	0.10095	0.0968	0.09798	0.10002	1.98E-03	2.37E-07	1.99E-07	2.30E-07	1.97E-07	1.9763E-03
520084.75	4259476.12	11387.90235	13.65237	0.11118	13.6865	0.10701	1.98E-03	3.21E-05	2.28E-07	3.21E-05	2.11E-07	2.0398E-03
519992.08	4258372.67	11380.50649	0.20126	2.02181	0.21023	1.83931	1.97E-03	4.72E-07	4.15E-06	4.94E-07	3.62E-06	1.9826E-03
520046.92	4258170.27	11374.12586	0.13091	6.92348	0.13767	5.46662	1.97E-03	3.07E-07	1.42E-05	3.23E-07	1.08E-05	1.9984E-03
520751.09	4258442.28	11373.04022	0.1028	0.10346	0.09962	0.10764	1.97E-03	2.41E-07	2.12E-07	2.34E-07	2.12E-07	1.9735E-03
519825.58	4258842.46	11367.70512	0.24516	0.28564	0.25591	0.27909	1.97E-03	5.76E-07	5.86E-07	6.01E-07	5.48E-07	1.9740E-03
519986.47	4258465.43	11361.43497	0.28741	1.79455	0.3063	1.62836	1.97E-03	6.75E-07	3.68E-06	7.19E-07	3.21E-06	1.9789E-03
519997.09	4258330.66	11361.22735	0.17701	2.2015	0.18432	1.99732	1.97E-03	4.16E-07	4.52E-06	4.33E-07	3.93E-06	1.9798E-03
520003.15	4258298.19	11348.32202	0.16283	2.4407	0.1691	2.20078	1.97E-03	3.82E-07	5.01E-06	3.97E-07	4.33E-06	1.9784E-03
520755.42	4258580.5	11346.70541	0.10313	0.10011	0.09998	0.10351	1.97E-03	2.42E-07	2.05E-07	2.35E-07	2.04E-07	1.9689E-03
520745.64	4258542.52	11340.92501	0.10519	0.10376	0.10166	0.10733	1.97E-03	2.47E-07	2.13E-07	2.39E-07	2.11E-07	1.9679E-03
520744.6	4258476.96	11331.1041	0.10477	0.10492	0.10126	0.10902	1.97E-03	2.46E-07	2.15E-07	2.38E-07	2.15E-07	1.9662E-03
520063.98	4258133.27	11330.64887	0.12505	16.43267	0.13048	9.54957	1.97E-03	2.94E-07	3.37E-05	3.06E-07	1.88E-05	2.0183E-03
520747.8	4258459.5	11327.87989	0.10381	0.10414	0.10045	0.10833	1.96E-03	2.44E-07	2.14E-07	2.36E-07	2.13E-07	1.9657E-03
519969.52	4258531.34	11324.73535	0.33839	1.32981	0.37092	1.23227	1.96E-03	7.94E-07	2.73E-06	8.71E-07	2.43E-06	1.9710E-03
519829.52	4258828.01	11314.48529	0.24533	0.29782	0.25654	0.29088	1.96E-03	5.76E-07	6.11E-07	6.02E-07	5.73E-07	1.9648E-03
520760.19	4258414.43	11308.97063	0.1003	0.1013	0.09734	0.10531	1.96E-03	2.35E-07	2.08E-07	2.29E-07	2.07E-07	1.9624E-03
519979.4	4258502.21	11307.06942	0.32335	1.56857	0.35147	1.43612	1.96E-03	7.59E-07	3.22E-06	8.25E-07	2.83E-06	1.9688E-03
519872.28	4258719.71	11301.42977	0.26583	0.44272	0.28146	0.42944	1.96E-03	6.24E-07	9.08E-07	6.61E-07	8.45E-07	1.9632E-03
520040.16	4259454.96	11293.96818	5.68902	0.10917	7.99091	0.10693	1.96E-03	1.34E-05	2.24E-07	1

519818.69	4258849.89	10991.9581	0.23633	0.27455	0.24619	0.26845	1.91E-03	5.55E-07	5.63E-07	5.78E-07	5.28E-07	1.9087E-03
520765.37	4258590.04	10982.86187	0.10069	0.09736	0.09775	0.10064	1.90E-03	2.36E-07	2.00E-07	2.29E-07	1.98E-07	1.9058E-03
520763.67	4258423.56	10976.73472	0.09963	0.10016	0.09668	0.10414	1.90E-03	2.34E-07	2.05E-07	2.27E-07	2.05E-07	1.9047E-03
519850.14	4258762.77	10972.44601	0.24861	0.36636	0.26133	0.35678	1.90E-03	5.84E-07	7.51E-07	6.14E-07	7.02E-07	1.9058E-03
520035.22	4259466.2	10971.5653	4.9616	0.10665	6.60344	0.10459	1.90E-03	1.16E-05	2.19E-07	1.55E-05	2.06E-07	1.9305E-03
519986.86	4258391.7	10939.36884	0.21056	1.85797	0.22008	1.69827	1.90E-03	4.94E-07	3.81E-06	5.17E-07	3.34E-06	1.9055E-03
520106.6	4258043.98	10933.64853	0.11136	11.88598	0.11285	13.52951	1.90E-03	2.61E-07	2.44E-05	2.65E-07	2.66E-05	1.9479E-03
520084.78	4259496.12	10925.16323	12.91227	0.10767	12.93859	0.10368	1.89E-03	3.03E-05	2.21E-07	3.04E-05	2.04E-07	1.9560E-03
520028.61	4258197.81	10921.1159	0.13257	4.06418	0.13911	3.49663	1.89E-03	3.11E-07	8.34E-06	3.27E-07	6.88E-06	1.9101E-03
519844.85	4258774.14	10914.81807	0.2451	0.35033	0.25735	0.34141	1.89E-03	5.75E-07	7.18E-07	6.04E-07	6.72E-07	1.8957E-03
520055.16	4258136.91	10910.03442	0.12288	9.65391	0.12877	6.98286	1.89E-03	2.88E-07	1.98E-05	3.02E-07	1.37E-05	1.9264E-03
520038.24	4258173.86	10909.75408	0.12835	5.2302	0.13504	4.34501	1.89E-03	3.01E-07	1.07E-05	3.17E-07	8.55E-06	1.9121E-03
519929.81	4258599.39	10907.35103	0.30641	0.79332	0.33505	0.75982	1.89E-03	7.19E-07	1.63E-06	7.87E-07	1.50E-06	1.8965E-03
520755.58	4258552.06	10891.38907	0.10274	0.10089	0.09945	0.10429	1.89E-03	2.41E-07	2.07E-07	2.33E-07	2.05E-07	1.8899E-03
520011.67	4258244.74	10882.57233	0.14255	2.84	0.14808	2.53522	1.89E-03	3.35E-07	5.82E-06	3.48E-07	4.99E-06	1.8990E-03
520045.14	4259476.18	10881.7947	6.88458	0.10619	10.69573	0.10386	1.89E-03	1.62E-05	2.18E-07	2.51E-05	2.04E-07	1.9291E-03
520750.81	4258513.33	10873.8756	0.10356	0.10271	0.1	0.10641	1.89E-03	2.43E-07	2.11E-07	2.35E-07	2.09E-07	1.8869E-03
519969.48	4258521.64	10859.61698	0.32418	1.34376	0.3537	1.24481	1.88E-03	7.61E-07	2.76E-06	8.30E-07	2.45E-06	1.8903E-03
520751.15	4258504.2	10849.85966	0.10339	0.10273	0.09984	0.1065	1.88E-03	2.43E-07	2.11E-07	2.34E-07	2.10E-07	1.8828E-03
520751.49	4258495.07	10848.92829	0.10322	0.10279	0.09971	0.10662	1.88E-03	2.42E-07	2.11E-07	2.34E-07	2.10E-07	1.8826E-03
520018.55	4258221.93	10840.01517	0.13683	3.24406	0.14273	2.85985	1.88E-03	3.21E-07	6.65E-06	3.35E-07	5.63E-06	1.8931E-03
520773.74	4258398.27	10838.64	0.09698	0.098	0.09423	0.10174	1.88E-03	2.28E-07	2.01E-07	2.21E-07	2.00E-07	1.8808E-03
519821.86	4258833.61	10830.06899	0.2343	0.28607	0.24455	0.27962	1.88E-03	5.50E-07	5.87E-07	5.74E-07	5.50E-07	1.8807E-03
519880.82	4258692.07	10826.97524	0.26444	0.48514	0.28031	0.47075	1.88E-03	6.21E-07	9.95E-07	6.58E-07	9.27E-07	1.8811E-03
520761.22	425844.3	10810.47096	0.1004	0.1006	0.09734	0.10461	1.88E-03	2.36E-07	2.06E-07	2.29E-07	2.06E-07	1.8759E-03
520074.88	4259496.13	10808.20329	15.68911	0.10645	22.17807	0.10298	1.87E-03	3.68E-05	2.18E-07	5.21E-05	2.03E-07	1.9640E-03
520765.42	4258580.56	10800.78768	0.10056	0.09766	0.09762	0.10094	1.87E-03	2.36E-07	2.00E-07	2.29E-07	1.99E-07	1.8742E-03
519979.32	4258482.81	10795.64776	0.29536	1.59577	0.31754	1.45977	1.87E-03	6.93E-07	3.27E-06	7.45E-07	2.87E-06	1.8800E-03
519983.36	4258448.73	10794.27214	0.26067	1.72826	0.2754	1.57766	1.87E-03	6.12E-07	3.54E-06	6.47E-07	3.11E-06	1.8800E-03
519859.47	4258737.04	10786.78924	0.25076	0.40115	0.26451	0.3899	1.87E-03	5.89E-07	8.23E-07	6.21E-07	7.68E-07	1.8737E-03
520755.64	4258542.58	10784.31248	0.10211	0.10111	0.09927	0.10453	1.87E-03	2.41E-07	2.07E-07	2.33E-07	2.06E-07	1.8714E-03
519939.73	4258579.95	10772.59679	0.31305	0.89514	0.3427	0.85118	1.87E-03	7.35E-07	1.84E-06	8.05E-07	1.68E-06	1.8735E-03
520754.64	4258477.47	10772.49718	0.10229	0.10208	0.09891	0.10601	1.87E-03	2.40E-07	2.09E-07	2.32E-07	2.09E-07	1.8693E-03
519992.24	4258322.68	10771.63474	0.16858	2.03556	0.17524	1.85996	1.87E-03	3.96E-07	4.17E-06	4.11E-07	3.66E-06	1.8769E-03
520757.89	4258460.12	10768.89645	0.10138	0.10122	0.09813	0.10523	1.87E-03	2.38E-07	2.08E-07	2.30E-07	2.07E-07	1.8687E-03
519825.91	4258819.42	10761.01318	0.23451	0.29814	0.24524	0.29122	1.87E-03	5.51E-07	6.11E-07	5.76E-07	5.73E-07	1.8688E-03
520770.4	4258415.37	10753.70131	0.09799	0.09849	0.09516	0.10235	1.87E-03	2.30E-07	2.02E-07	2.23E-07	2.01E-07	1.8660E-03
520035.24	4259476.2	10753.56069	5.00497	0.10501	6.70911	0.10299	1.87E-03	1.18E-05	2.15E-07	1.58E-05	2.03E-07	1.8931E-03
520046	4258150.68	10750.72962	0.12375	6.66743	0.13012	5.30283	1.86E-03	2.91E-07	1.37E-05	3.05E-07	1.04E-05	1.8894E-03
520096.78	4258053.95	10750.35762	0.11157	18.01865	0.11367	18.14535	1.86E-03	2.62E-07	3.70E-05	2.67E-07	3.57E-05	1.9378E-03
519993.42	425831.2	10719.6628	0.16365	2.07438	0.16998	1.89404	1.86E-03	3.84E-07	4.25E-06	3.99E-07	3.73E-06	1.8680E-03
520755.69	4258533.09	10701.34579	0.1025	0.10128	0.09911	0.10474	1.86E-03	2.41E-07	2.08E-07	2.33E-07	2.06E-07	1.8570E-03
520061.5	4258116.61	10697.18628	0.11884	13.65703	0.12402	8.64626	1.86E-03	2.79E-07	2.80E-05	2.91E-07	1.70E-05	1.9010E-03
520012.34	4258234.48	10694.52747	0.13866	2.86959	0.1441	2.5603	1.85E-03	3.26E-07	5.89E-06	3.38E-07	5.04E-06	1.8665E-03
519983.52	4258424.08	10688.57444	0.23499	1.75046	0.24662	1.60169	1.85E-03	5.52E-07	3.59E-06	5.79E-07	3.15E-06	1.8618E-03
520029.1	4258187.62	10688.22207	0.1291	4.10761	0.13555	3.52922	1.85E-03	3.03E-07	8.42E-06	3.18E-07	6.95E-06	1.8698E-03
520045.16	4259486.18	10665.26858	7.02856	0.10452	11.02098	0.10225	1.85E-03	1.65E-05	2.14E-07	2.59E-05	2.01E-07	1.8926E-03
520082.08	4259506.95	10656.25792	13.40688	0.10552	14.06741	0.10178	1.85E-03	3.15E-05	2.16E-07	3.30E-05	2.00E-07	1.9132E-03
520767.14	4258432.68	10654.39551	0.09893	0.09911	0.096	0.10304	1.85E-03	2.32E-07	2.03E-07	2.25E-07	2.03E-07	1.8488E-03
519907.12	4258636.77	10652.02122	0.28198	0.62453	0.30367	0.60476	1.85E-03	6.62E-07	1.28E-06	7.13E-07	1.19E-06	1.8514E-03
519994.47	4258301.78	10643.77811	0.15889	2.10997	0.16491	1.92504	1.85E-03	3.73E-07	4.33E-06	3.87E-07	3.79E-06	1.8550E-03
520755.74	4258523.61	10643.00193	0.10241	0.10135	0.09897	0.10488	1.85E-03	2.40E-07	2.08E-07	2.32E-07	2.06E-07	1.8469E-03
520106.64	4258033.98	10640.27187	0.10872	11.88694	0.11013	13.52701	1.85E-03	2.55E-07	2.44E-05	2.59E-07	2.66E-05	1.8970E-03
520055.42	4258126.82	10640.112	0.11978	9.74745	0.12545	7.01866	1.85E-03	2.81E-07	2.00E-05	2.95E-07	1.38E-05	1.8799E-03
520765.48	4258571.08	10636.57503	0.10045	0.09792	0.09747	0.10119	1.84E-03	2.36E-07	2.01E-07	2.29E-07	1.99E-07	1.8457E-03
520019.2	4258211.68	10635.23792	0.13323	3.28858	0.13909	2.89728	1.84E-03	3.13E-07	6.74E-06	3.27E-07	5.70E-06	1.8577E-03
519811.79	4258857.29	10635.08246	0.22796	0.26414	0.23698	0.25845	1.84E-03	5.35E-07	5.42E-07	5.56E-07	5.09E-07	1.8467E-03
519959.56	4258541.08	10634.53003	0.32166	1.16311	0.35129	1.08859	1.84E-03	7.55E-07	2.39E-06	8.25E-07	2.14E-06	1.8506E-03
519838.31	4258782.47	10628.09417	0.23761	0.33507	0.24905	0.32682	1.84E-03	5.58E-07	6.87E-07	5.85E-07	6.43E-07	1.8459E-03
519897.12	4258655.32	10616.61773	0.27333	0.56668	0.29202	0.55002	1.84E-03	6.42E-07	1.16E-06	6.86E-07	1.08E-06	1.8450E-03
519987.55	4258344.58	10613.32298	0.17786	1.89087	0.18501	1.73451	1.84E-03	4.18E-07	3.88E-06	4.34E-07	3.41E-06	1.8490E-03
520001.27	4258269.01	10603.63537	0.14734	2.35602	0.15261	2.13509	1.84E-03	3.46E-07	4.83E-06	3.58E-07	4.20E-06	1.8489E-03
519986.31	4258355.08	10601.84911	0.18343	1.85405	0.1909	1.70155	1.84E-03	4.31E-07	3.80E-06	4.48E-07	3.35E-06	1.8469E-03
519983.45	425840	10601.2884	0.21338	1.76232	0.22303	1.61602	1.84E-03	5.01E-07	3.61E-06	5.24E-07	3.18E-06	1.8466E-03
519988.65	4258334.14	10594.41997	0.17247	1.92421	0.17931	1.76432	1.84E-03	4.05E-07	3.95E-06	4.21E-07	3.47E-06	1.8458E-03
519874.46	4258700.84	10575.77307	0.25635	0.46102	0.27196	0.44715	1.83E-03	6.02E-07	9.46E-07	6.38E-07	8.80E-07	1.8374E-03
520036.69	4258164.51	10563.71496	0.1245	4.99211	0.13097	4.17592	1.83E-03	2.92E-07	1.02E-05	3.07E-07	8.22E-06	1.8513E-03
519887.12	4258673.87	10555.25032	0.26503	0.51696	0.28131	0.50225	1.83E-03	6.22E-07	1.06E-06	6.60E-07	9.89E-07	1.8341E-03
519984.87	4258365.66	10551.81349	0.18914	1.81234	0.19695	1.66432	1.83E-03	4.44E-07	3.72E-06	4.62E-07	3.28E-06	1.8381E-03
519995.42	425829.4	10547.68496	0.15431	2.14017	0.16	1.9521	1.83E-03	3.62E-07	4.39E-06	3.76E-07	3.84E-06	1.8384E-03
520072.18	4259506.97	10542.71872	14.75712	0.1043	25.19065	0.10106	1.83E-03	3.46E-05	2.14E-07	5.91E-05	1.99E-07	1.9228E-03
520035.26	4259486.2	10541.93905	5.07758	0.10338	6.82972	0.10139	1.83E-03	1.19E-05	2.12E-07	1.60E-05	2.00E-07	1.8568E-03
519949.65	4258560.52	10539.86989	0.3147	1.01372	0.34318	0.95744	1.83E-03	7.39E-07	2.08E-06	8.06E-07	1.88E-06	1.8336E-03
520777.17	4258407.27	10536.71452	0.09639	0.09686	0.09366	0.1006	1.83E-03	2.26E-07	1.99E-07	2.20E-07	1.98E-07	1.8284E-03
520758.06	4258486.46	10535.17352	0.10153	0.10109	0.09816	0.10489	1.83E-03	2.38E-07	2.07E-07	2.30E-07	2.06E-07	1.8282E-03
520062	4258109.76	10534.94741	0.11695	14.08256	0.12197	8.78526	1.83E-03	2.75E-07	2.89E-05	2.86E-07	1.73E-05	1.8740E-03
519829.12	4258803.25	10534.87652	0.2331	0.31072	0.24293	0.30336	1.83E-03	5.45E-07	6.37E-07	5.70E-07	5.97E-07	1.8296E-03
519852.99	4258745.53	10525.48493	0.24335	0.38257	0.25633	0.37215	1.83E-03	5.71E-07	7.85E-07	6.02E-07	7.33E-07	1.8283E-03
520764.59	4258451.87	10519.03891	0.09971	0.09955	0.09662	0.10348	1.82E-03	2.34E-07	2.04E-07	2.27E-07	2.04E-07	1.8253E-03
520761.29	4258469.05	10498.70058	0.10064	0.10026	0.09738	0.10415	1.82E-03	2.36E-07	2.06E-07	2.29E-07	2.05E-07	1.8218E-03
520046.34	4258140.55	10497.27864	0.12064	6.73129	0.1268	5.33984	1.82E-03	2.83E-07	1.38E-05	2.98E-07	1.05E-05	1.8456E-03
520765.53	425851.6	10492.73178	0.10034	0.09815	0.0973	0.10141	1.82E-03	2.36E-07	2.01E-07	2.28E-07	2.00E-07	1.8208E-03
519814.99	4258841.1	10486.96361	0.22617	0.27495	0.23559	0.26894	1.82E-03	5.31E-07	5.64E-07	5.53E-07	5.29E-07	1.8211E-03
519969.44	4258511.95	10479.55788	0.31066	1.35671	0.33741	1.25662	1.82E-03	7.29E-07	2.78E-06	7.92E-07	2.47E-06	1.8244E-03
520002.15	4258258.66	10465.7646	0.14329	2.39178	0.14837	2.16553	1.82E-03	3.36E-07	4.91E-06	3.48E-07	4.26E-06	1.8251E-03
519979.85	4258457.26	10464.44738	0.26423	1.63585	0.27996	1.49764	1.82E-03	6.20E-07	3.36E-06	6.57E-07	2.95E-06	1.8226E-03
520096.82	4258043.95	10464.23976	0.10891	18.03618	0.11091	17.95999	1.81E-03	2.56E-07	3.70E-05	2.60E-07	3.54E-05	1.8878E-03
519868.49	4258710.57	10461.93637	0.25126	0.43893	0.26568	0.42624	1.81E-03	5.90E-07	9.00E-07	6.24E-07	8.39E-07	1.8175E-03
520029.55	4258177.44	10458.05669	0.12578	4.14291	0.13211	3.55467	1.81E-03	2.95E-07	8.50E-06	3.10E-07	7.00E-06	1.8300E-03
520045.18	4259516.95	10455.25736	7.16622	0.1029	11.48355	0.10067	1.81E-03	1.68E-05	2.11E-07	2.70E-05	1.98E-07	1.8576E-03
520082.1	4259516.95	10444.02112	13.05274	0.10388	13.52034	0.10022	1.81E-03	3.06E-05	2.13E-07	3.17E-05	1.97E-07	1.8743E-03
520773.85	4258424.44	10439.01492	0.09733	0.09746	0.09452	0.10128	1.81E-03	2.28E-07	2.00E-07	2.22E-07	1.99E-07	1.8114E-03
519996.27	4258281.06	10435.60227	0.14992	2.16925	0.15531	1.97764	1.81E-03	3.52E-07	4.45E-06	3.65E-07	3.89E-06	1.8191E-03
520019.8	4258201.44	10424.14289	0.12973	3.31428	0.13554	2.91303	1.81E-03	3.05E-07	6.80E-06	3.18E-07	5.73E-06	1.8212E-03
519919.85	4258609.13	10408.39853	0.28969	0.7171	0.31466	0.69075	1.81E-03	6.80E-07	1.47E-06	7.39E-07	1.36E-06	1.8095E-03
520781.19	4258599.97	10370.77127	0.0969	0.09327	0.09421	0.09637	1.80E-03	2.27E-07	1.91E-07	2.21E-07	1.90E-07	1.7996E-03
520765.58	4258552.11	10369.38629	0.10023	0.09836	0.09713	0.10162	1.80E-03	2.35E-07	2.02E-07	2.28E-07	2.00E-07	1.7994E-03
520106.67	4258023.98	10356.90929	0.10619	11.89394	0.10752	13.4786	1.80E-03	2.49E-07	2.44E-05	2.52E-07	2.65E-05	1.8478E-03
520760.8	4258513.71	10349.3448	0.10108	0.10006	0.09769	0.1036	1.80E-03	2.37E-07	2.05E-07	2.29E-07	2.04E-07	1.7958E-03
520770.62	4258441.81	10346.09765	0.09822	0.09809	0.09529	0.10195	1.79E-03	2.31E-07	2.01E-07	2.24E-07	2.01E-07	1.7953E-03
520035.28	4259496.2	10336.33645	5.16322	0.10178	6.98422	0.09984	1.79E-03	1.21E-05	2.09E-07	1.64E-05	1.97E-07	1.8217E-03
520072.2	4259516.97	10334.70885	14.37437	0.1027	23.54454	0.09953	1.79E-03	3.37E-05	2.11E-07	5.53E-05	1.96E-07	1.8819E-03
520037.12	4258154.35	10329.10641	0.12137	5.04232	0.1277	4.21132	1.79E-03	2.85E-07	1.03E-05	3.00E-07	8.29E-06	1.8108E-03
519980.06	4258432.48	10327.91799	0.23809	1.65945	0.25	1.5232	1.79E-03	5.59E-07	3.40E-06	5.87E-07	3.00E-06	1.7989E-03
520761.14	4258504.58	10326.32292	0.10093	0.10006	0.09755	0.10366	1.79E-03	2.37E-07	2.05E-07	2.29E-07	2.04E-07	1.7919E-03
520761.49	4258495.44	10324.6985	0.10077	0.10008	0.09742	0.10375	1.79E-03	2.37E-07	2.05E-07	2.29E-07	2.04E-07	1.7916E-03
520002.95	4258248.34	10317.26396	0.13941	2.4217	0.14432	2.19158	1.79E-03	3.27E-07	4.97E-06	3.39E-07	4.31E-06	1.7994E-03
520009.59	4258225.63	10303.97238	0.13381	2.71691	0.13889	2.43628	1.79E-03	3.14E-07	5.57E-06	3.26E-07	4.80E-06	1.7982E-03
519929.77	4258589.69	10299.41785	0.2967	0.80389	0.32387	0.76903	1.79E-03	6.97E-07	1.65E-06	7.60E-07	1.51E-06	1.7910E-03
519818.14	4258824.77	10292.5285	0.22395	0.28628	0.2337	0.27986	1.79E-03	5.26E-07	5.87E-07	5.49E-07	5.51E-07	1.7874E-03
519846.47	4258753.92	10272.66861	0.23627	0.36519	0.24831	0.35564	1.78E-03	5.55E-07	7.49E-07	5.83E-07	7.00E-07	1.7843E-03
520765.64	4258542.63	10267.75417	0.10013	0.09854	0.09697	0.10182	1.78E-03	2.35E-07	2.02E-07	2.28E-07	2.00E-07	1.7818E-03
519862.15	4258719.38	10258.22028	0.24466	0.41795	0.25808	0.4063	1.78E-03	5.74E-07	8.57E-07	6.06E-07	8.00E-07	1.7821E-03
520764.68	4258477.97	10251.97358	0.09988	0.09938	0.09665	0.10313	1.78E-03	2.34E-07	2.04E-07	2.27E-07	2.03E-07	1.7790E-03
520046.65	4258130.44	10250.01371	0.11765	8.78975	0.12362	5.37168	1.78E-03	2.76E-07	1.39E-05	2.90E-07	1.06E-05	1.8029E-03
520767.97	4258460.73	10246.91772	0.09901	0.09856	0.0959	0.10239	1.78E-03	2.32E-07	2.02E-07	2.25E-07	2.02E-07	1.7781E-03
520082.12	4259526.95	10237.74045	12.93918	0.10227	12.98519	0.0987	1.78E-03	3.04E-05	2.10E-07	3.05E-05	1.94E-07	1.8370E-03
519841.08	4258765.04	10233.92164	0.23305	0.34921	0.24424	0.34053	1.78E-03	5.47E-07	7.16E-07	5.73E-07	6.70E-07	1.7775E-03
520780.59	4258416.28	10233.32037	0.09575	0.09583	0.09307	0.09954	1.77E-03	2.25E-07	1.97E-07	2.18E-07	1.96E-07	1.7758E-03
520020.35	4258191.23	10223.83649	0.12644	3.35863	0.13221	2.95208	1.77E-03	2.97E-07	6.89E-06	3.10E-07	5.81E-06	1.7866E-03
519822.29	4258810.82	10212.61565	0.22404	0.2881	0.23433	0.29123	1.77E-03	5.26E-07	6.11E-07	5.50E-07	5.73E-07	1.7736E-03
520042.48	4259507.02	10203.14337	6.67455	0.10088	10.25519	0.09879	1.77E-03	1.57E-05	2.07E-07	2.41E-05	1.94E-07	1.8098E-03
520778.28	4258583.39	10203.08164	0.09743	0.09447	0.09472	0.0976	1.77E-03	2.29E-07	1.94E-07	2.22E-07	1.92E-07	1.7705E-03
520096.85	4258033.95	10194.0866	0.10638	18.05343	0.10826	18.0902	1.77E-03	2.50E-07	3.70E-05	2.54E-07	3.56E-05	1.8413E-03
520765.69	4258533.15	10189.31154	0.10004	0.09868	0.09682	0.102	1.77E-03	2.35E-07	2.02E-07	2.27E-07	2.01E-07	1.7682E-03
519959.52	4258531.38	10177.30844	0.30932	1.17559	0.33664	1.0997	1.77E-03	7.26E-07	2.41E-06	7.90E-07	2.16E-06	1.7713E-03
520059.08	4258101.95	10176.29182	0.11372	11.71354	0.11872	7.89602	1.77E-03	2.67E-07	2.40E-05	2.79E-07	1.55E-05	1.8051E-03
519976.34	4258465.79	10175.01483	0.26766	1.54944	0.2847	1.42297	1.76E-03	6.28E-07	3.18E-06	6.68E-07	2.80E-06	1.7721E-03
519969.4	4258502.25	10174.482	0.29781	1.36903	0.32207	1.26774	1.76E-03	6.99E-07	2.81E-06	7.56E-07	2.50E-06	1.7715E-03
520051.71	4258116.57	10164.12809	0.11537	8.22773	0.12097	6.20541	1.76E-03	2.71E-07	1.69E-05	2.84E-07	1.22E-05	1.7926E-03
520003.69	4258238.05	10161.88672	0.13568	2.44963	0.14047	2.21563	1.76E-03	3.19E-07	5.02E-06	3.30E-07	4.36E-06	1.7726E-03
519808.11	4258848.56	10160.47539	0.21843	0.26449	0.22707	0.2589	1.76E-03	5.13E-07	5.42E-07	5.33E-07	5.10E-07	1.7644E-03
519979.54	4258385.23	10135.8031	0.19762	1.67173	0.20584	1.54142	1.76E-03	4.64E-07	3.43E-06	4.83E-07	3.03E-06	1.7654E-03
520777.3	425843.5	10135.73052	0.09665	0.09646	0.09346	0.10022	1.76E-03	2.27E-07	1.98E-07	2.20E-07	1.97E-07	1.7584E-03
520765.74	4258523.67	10133.90903	0.09995	0.09878	0.09669	0.10216	1.76E-03	2.35E-07	2.03E-07	2.27E-07	2.01E-07	1.7585E-03
520072.22	4259526.97	10133.05515	13.88786	0.10114	22.06855	0.09804	1.76E-03	3.26E-05	2.07E-07	5.18E-05	1.93E-07	1.8423E-03
520010.31	4258215.34	10129.31854	0.13035	2.75175	0.1354	2.46564	1.76E-03	3.06E-07	5.64E-06	3.18E-07	4.85E-06	1.7680E-03
520027.74	425168.2	10124.38825	0.12198	3.95364	0.12807	3.40939	1.76E-03	2.86E-07	8.11E-06	3.01E-07	6.71E-06	1.7714E-03
519897.12	4258646.05	10113.0582	0.2663	0.5729	0.28508	0.55643	1.75E-03	6.25E-07	1.17E-06	6.69E-07	1.10E-06	1.7576E-03
520037.52	425844.2	10095.20871	0.11836	5.0891	0.12456	4.24224	1.75E-03	2.78E-07	1.04E-05	2.92E-07	8.35E-06	1.7700E-03
519949.61	4258550.82	10093.60485	0.30621	1.02802	0.33318	0.96999	1.75E-03	7.19E-07	2.11E-06	7.82E-07	1.91E-06	1.7562E-03
520106.7	4258013.98	10089.12547	0.10377	11.89491	0.10501	13.54855	1.75E-03	2.44E-07	2.44E-05	2.47E-07	2.67E-05	1.8015E-03
519939.69	4258570.26	10089.12041	0.30001	0.90522	0.32637	0.86026	1.75E-03	7.04E-07	1.86E-06	7.66E-07	1.69E-06	1.7549E-03
520032.58	4259507.04	10088.69869	4.85894	0.09981	6.44808	0.09797	1.75E-03	1.14E-05	2.05E-07	1.51E-05	1.93E-07	1.7768E-03
519887.12	4258664.6	10078.4998	0.25839	0.52245	0.27449	0.5083	1.75E-03	6.07E-07	1.07E-06	6.44E-07	1.00E-06	1.7514E-03
520774.09	4258450.94	10058.92857	0.09752	0.0971	0.09458	0.10087	1.74E-03	2.29E-07	1.99E-07	2.22E-07	1.99E-07	1.7455E-03
519855.74	4258728.06	10042.19271	0.23794	0.39842	0.25057	0.38761	1.74E-03	5.59E-07	8.17E-07	5.88E-07	7.63E-07	1.7445E-03
520768.08	4258486.89	10033.0629	0.09915	0.09842	0.09592	0.10205	1.74E-03	2.33E-07	2.02E-07	2.25E-07	2.01E-07

519975.88	4258394.11	9805.55861	0.20022	1.58521	0.20852	1.46598	1.70E-03	4.70E-07	3.25E-06	4.90E-07	2.89E-06	1.7078E-03
519959.48	4258521.68	9800.85386	0.29761	1.1874	0.32273	1.11019	1.70E-03	6.99E-07	2.44E-06	7.58E-07	2.19E-06	1.7060E-03
520777.57	4258460.06	9792.3888	0.0968	0.09616	0.09385	0.09982	1.70E-03	2.27E-07	1.97E-07	2.20E-07	1.96E-07	1.6993E-03
520000.63	4258229.33	9786.83834	0.13091	2.31813	0.13535	2.10655	1.70E-03	3.07E-07	4.75E-06	3.18E-07	4.15E-06	1.7070E-03
520060.26	4258084.04	9783.85703	0.10921	12.47338	0.11384	8.17456	1.70E-03	2.56E-07	2.56E-05	2.67E-07	1.61E-05	1.7392E-03
520078.02	4259548.19	9780.24726	13.67845	0.09856	14.27527	0.09535	1.70E-03	3.21E-05	2.02E-07	3.35E-05	1.88E-07	1.7624E-03
520011.61	4258194.84	9774.10277	0.12385	2.8111	0.12885	2.51358	1.70E-03	2.91E-07	5.77E-06	3.02E-07	4.95E-06	1.7066E-03
520774.72	4258478.46	9768.6547	0.09757	0.09675	0.09947	0.10034	1.69E-03	2.29E-07	1.98E-07	2.22E-07	1.98E-07	1.6952E-03
519994.23	4258251.94	9765.24516	0.13633	2.08716	0.14086	1.91061	1.69E-03	3.20E-07	4.28E-06	3.31E-07	3.76E-06	1.7024E-03
519814.42	4258815.92	9761.40448	0.21414	0.28615	0.22325	0.2798	1.69E-03	5.03E-07	5.87E-07	5.24E-07	5.51E-07	1.6952E-03
519929.73	4258580	9737.53833	0.28716	0.81393	0.31238	0.77783	1.69E-03	6.74E-07	1.67E-06	7.33E-07	1.53E-06	1.6935E-03
520788.42	4258583.44	9733.13381	0.09504	0.0921	0.09249	0.09513	1.69E-03	2.23E-07	1.89E-07	2.17E-07	1.87E-07	1.6890E-03
520776.55	4258540.86	9730.70751	0.09752	0.09579	0.09461	0.09895	1.69E-03	2.29E-07	1.96E-07	2.22E-07	1.95E-07	1.6886E-03
519969.32	4258482.85	9716.63933	0.2739	1.39181	0.2936	1.28781	1.69E-03	6.43E-07	2.85E-06	6.89E-07	2.54E-06	1.6920E-03
520032.61	4259527.04	9709.45867	5.0545	0.09684	6.84375	0.09507	1.68E-03	1.19E-05	1.99E-07	1.61E-05	1.87E-07	1.7124E-03
520028.69	4258147.84	9706.57336	0.11609	4.03433	0.12203	3.47004	1.68E-03	2.73E-07	8.27E-06	2.86E-07	6.83E-06	1.6992E-03
520018.79	4258171.9	9697.86576	0.11949	3.22835	0.12496	2.84429	1.68E-03	2.81E-07	6.62E-06	2.93E-07	5.60E-06	1.6948E-03
519804.44	4258839.83	9686.40759	0.20935	0.26463	0.21754	0.2591	1.68E-03	4.91E-07	5.43E-07	5.11E-07	5.10E-07	1.6821E-03
520096.91	4258013.95	9683.71756	0.10161	18.0904	0.10328	18.227	1.68E-03	2.39E-07	3.71E-05	2.42E-07	3.59E-05	1.7531E-03
520049.29	4258101.92	9682.97867	0.11046	7.43598	0.11587	5.7418	1.68E-03	2.59E-07	1.53E-05	2.72E-07	1.13E-05	1.7066E-03
520068.12	4259548.21	9682.44278	16.11111	0.09748	25.7271	0.0947	1.68E-03	3.78E-05	2.00E-07	6.04E-05	1.86E-07	1.7780E-03
519818.67	4258802.23	9675.87551	0.21457	0.29765	0.22384	0.29091	1.68E-03	5.04E-07	6.10E-07	5.26E-07	5.73E-07	1.6804E-03
519864.7	4258701.43	9670.97579	0.23769	0.43422	0.25119	0.42223	1.68E-03	5.58E-07	8.91E-07	5.90E-07	8.31E-07	1.6803E-03
520787.45	4258434.29	9662.25981	0.09449	0.09378	0.09179	0.09742	1.68E-03	2.22E-07	1.92E-07	2.15E-07	1.92E-07	1.6767E-03
519995.03	4258241.62	9647.27085	0.1328	2.11694	0.13716	1.93654	1.67E-03	3.12E-07	4.34E-06	3.22E-07	3.81E-06	1.6821E-03
520001.43	4258219.01	9640.99006	0.12758	2.34414	0.13194	2.12809	1.67E-03	3.00E-07	4.81E-06	3.10E-07	4.19E-06	1.6818E-03
519897.12	4258636.77	9635.59389	0.25966	0.57906	0.27838	0.56262	1.67E-03	6.10E-07	1.19E-06	6.54E-07	1.11E-06	1.6748E-03
519887.12	4258655.32	9615.97693	0.25199	0.52789	0.26823	0.51403	1.67E-03	5.92E-07	1.08E-06	6.30E-07	1.01E-06	1.6712E-03
519949.56	4258541.12	9613.25704	0.29479	1.03852	0.31968	0.97966	1.67E-03	6.92E-07	2.13E-06	7.51E-07	1.93E-06	1.6729E-03
520785.55	4258566.75	9610.21114	0.0956	0.09314	0.09292	0.09618	1.67E-03	2.24E-07	1.91E-07	2.18E-07	1.89E-07	1.6677E-03
519842.8	4258745.07	9606.34751	0.22485	0.36324	0.23601	0.35395	1.67E-03	5.28E-07	7.45E-07	5.54E-07	6.97E-07	1.6687E-03
519939.65	4258560.56	9599.20249	0.29083	0.91612	0.31523	0.87023	1.66E-03	6.83E-07	1.88E-06	7.40E-07	1.71E-06	1.6700E-03
520012.18	4258184.61	9594.70575	0.12078	2.84047	0.12577	2.53661	1.66E-03	2.84E-07	5.83E-06	2.95E-07	4.99E-06	1.6756E-03
520078.04	4259558.19	9594.27016	13.29701	0.0971	13.63606	0.09396	1.66E-03	3.12E-05	1.99E-07	3.20E-05	1.85E-07	1.7277E-03
520784.2	4258451.63	9586.0977	0.0953	0.09451	0.09247	0.09812	1.66E-03	2.24E-07	1.94E-07	2.17E-07	1.93E-07	1.6635E-03
520106.76	4257993.98	9584.91434	0.09922	11.8949	0.10029	13.68228	1.66E-03	2.33E-07	2.44E-05	2.35E-07	2.69E-05	1.7143E-03
519877.12	4258673.87	9573.60401	0.24453	0.48377	0.25879	0.47135	1.66E-03	5.74E-07	9.92E-07	6.08E-07	9.28E-07	1.6636E-03
519837.31	4258755.94	9568.23654	0.22156	0.34788	0.23219	0.33923	1.66E-03	5.20E-07	7.13E-07	5.45E-07	6.68E-07	1.6620E-03
520038.4	4259538.26	9565.66084	6.23596	0.09581	9.40905	0.09395	1.66E-03	1.46E-05	1.96E-07	2.21E-05	1.85E-07	1.6962E-03
520778.1	4258487.33	9564.37232	0.09686	0.09581	0.09376	0.09929	1.66E-03	2.27E-07	1.96E-07	2.20E-07	1.95E-07	1.6597E-03
520781.04	4258469.19	9550.27142	0.09609	0.09523	0.09313	0.09878	1.66E-03	2.26E-07	1.95E-07	2.19E-07	1.94E-07	1.6573E-03
520060.29	4258074.04	9546.30997	0.10664	14.4701	0.11111	8.15151	1.66E-03	2.50E-07	2.55E-05	2.61E-07	1.60E-05	1.6978E-03
519858.39	4258710.33	9522.97999	0.23224	0.41387	0.24444	0.40304	1.65E-03	5.45E-07	8.49E-07	5.74E-07	7.93E-07	1.6545E-03
520783.03	4258549.27	9515.25567	0.09607	0.09404	0.09322	0.09711	1.65E-03	2.26E-07	1.93E-07	2.19E-07	1.91E-07	1.6512E-03
520780.1	4258532.72	9511.41173	0.09663	0.09509	0.09364	0.09822	1.65E-03	2.27E-07	1.95E-07	2.20E-07	1.93E-07	1.6505E-03
520019.35	4258161.68	9510.49903	0.11662	3.26852	0.12207	2.87756	1.65E-03	2.74E-07	6.70E-06	2.87E-07	5.66E-06	1.6625E-03
520068.14	4259558.21	9499.75991	15.78501	0.09604	23.91989	0.09332	1.65E-03	3.71E-05	1.97E-07	5.62E-05	1.84E-07	1.7413E-03
520029.13	4258137.67	9499.72082	0.11332	4.06927	0.11917	3.49439	1.65E-03	2.66E-07	8.35E-06	2.80E-07	6.88E-06	1.6635E-03
520002.17	4258208.72	9491.05378	0.1244	2.37366	0.12871	2.15308	1.65E-03	2.92E-07	4.87E-06	3.02E-07	4.24E-06	1.6559E-03
519807.6	4258823.53	9483.97154	0.2073	0.27496	0.21561	0.2691	1.64E-03	4.87E-07	5.64E-07	5.06E-07	5.30E-07	1.6470E-03
519959.44	4258511.99	9474.3596	0.28613	1.19796	0.30903	1.12	1.64E-03	6.72E-07	2.46E-06	7.26E-07	2.20E-06	1.6493E-03
519972.23	4258403	9473.71837	0.20279	1.50523	0.21117	1.39581	1.64E-03	4.76E-07	3.09E-06	4.96E-07	2.75E-06	1.6500E-03
520028.5	4259538.27	9463.30576	4.55887	0.09485	6.01299	0.09318	1.64E-03	1.07E-05	1.95E-07	1.41E-05	1.83E-07	1.6666E-03
520049.32	4258091.92	9453.36662	0.10785	7.42415	0.11308	5.7286	1.64E-03	2.53E-07	1.52E-05	2.65E-07	1.13E-05	1.6667E-03
519972.52	4258378.02	9450.30447	0.18572	1.51985	0.1928	1.41171	1.64E-03	4.36E-07	3.12E-06	4.53E-07	2.78E-06	1.6459E-03
520780.44	4258523.59	9448.97268	0.09649	0.09513	0.09347	0.09829	1.64E-03	2.27E-07	1.95E-07	2.19E-07	1.93E-07	1.6397E-03
520096.94	4258003.95	9444.07918	0.09937	18.1056	0.10094	18.34843	1.64E-03	2.33E-07	3.71E-05	2.37E-07	3.61E-05	1.7118E-03
519909.85	4258609.17	9426.16712	0.26659	0.65977	0.28772	0.63827	1.63E-03	6.26E-07	1.35E-06	6.75E-07	1.26E-06	1.6388E-03
520108.08	4257984.88	9417.26912	0.09751	11.35439	0.09847	13.21272	1.63E-03	2.29E-07	2.33E-05	2.31E-07	2.60E-05	1.6831E-03
519983.51	4258276.34	9414.48667	0.14066	1.78113	0.14545	1.6478	1.63E-03	3.30E-07	3.65E-06	3.41E-07	3.24E-06	1.6405E-03
520078.06	4259568.19	9413.69793	12.92113	0.09567	13.03476	0.0926	1.63E-03	3.03E-05	1.96E-07	3.06E-05	1.82E-07	1.6941E-03
519969.69	4258457.69	9411.29972	0.24709	1.42358	0.26139	1.31703	1.63E-03	5.80E-07	2.92E-06	6.14E-07	2.59E-06	1.6391E-03
520780.79	4258514.46	9407.48737	0.09637	0.09509	0.09332	0.09832	1.63E-03	2.26E-07	1.95E-07	2.19E-07	1.94E-07	1.6325E-03
519821.84	4258785.95	9404.81432	0.212	0.30938	0.22115	0.30232	1.63E-03	4.98E-07	6.35E-07	5.19E-07	5.95E-07	1.6335E-03
520790.88	4258443.29	9394.91741	0.09382	0.09287	0.09112	0.09643	1.63E-03	2.20E-07	1.90E-07	2.14E-07	1.90E-07	1.6303E-03
520038.42	4259548.26	9387.78631	6.40719	0.09441	9.86949	0.09258	1.63E-03	1.50E-05	1.94E-07	2.32E-05	1.82E-07	1.6669E-03
520781.13	4258505.32	9385.85562	0.09625	0.09502	0.09318	0.0983	1.63E-03	2.26E-07	1.95E-07	2.19E-07	1.94E-07	1.6288E-03
520781.47	4258496.19	9383.73054	0.09614	0.09493	0.09307	0.09829	1.63E-03	2.26E-07	1.95E-07	2.18E-07	1.93E-07	1.6284E-03
519830.82	4258764.41	9360.18907	0.21549	0.33297	0.22538	0.32498	1.62E-03	5.06E-07	6.83E-07	5.29E-07	6.40E-07	1.6258E-03
519975.86	4258319.45	9358.35243	0.15549	1.60027	0.16088	1.48798	1.62E-03	3.65E-07	3.28E-06	3.78E-07	2.93E-06	1.6301E-03
519977.1	4258308.95	9348.50648	0.15129	1.62839	0.15653	1.5133	1.62E-03	3.55E-07	3.34E-06	3.67E-07	2.98E-06	1.6285E-03
520789.18	4258558.43	9346.82036	0.09472	0.09246	0.09204	0.09545	1.62E-03	2.22E-07	1.90E-07	2.16E-07	1.88E-07	1.6220E-03
519974.47	4258330.01	9343.13279	0.1598	1.56974	0.16535	1.46035	1.62E-03	3.75E-07	3.22E-06	3.88E-07	2.87E-06	1.6274E-03
519852.02	4258719.08	9338.94971	0.22606	0.395	0.23772	0.38475	1.62E-03	5.31E-07	8.10E-07	5.58E-07	7.57E-07	1.6225E-03
519984.56	4258265.92	9338.34752	0.13697	1.80536	0.14153	1.66929	1.62E-03	3.22E-07	3.70E-06	3.32E-07	3.29E-06	1.6273E-03
520787.65	4258460.69	9337.84691	0.0946	0.09363	0.09177	0.09714	1.62E-03	2.22E-07	1.92E-07	2.15E-07	1.91E-07	1.6204E-03
520002.86	4258198.45	9335.21178	0.12132	2.3922	0.12558	2.16703	1.62E-03	2.85E-07	4.91E-06	2.95E-07	4.27E-06	1.6289E-03
520784.51	4258478.31	9331.38379	0.09538	0.09429	0.09241	0.09773	1.62E-03	2.24E-07	1.93E-07	2.17E-07	1.92E-07	1.6193E-03
520050.47	4258084.01	9330.49645	0.1062	7.74807	0.11126	5.91875	1.62E-03	2.49E-07	1.59E-05	2.61E-07	1.17E-05	1.6464E-03
519919.77	4258589.73	9325.94472	0.27263	0.73527	0.29571	0.70653	1.62E-03	6.40E-07	1.51E-06	6.94E-07	1.39E-06	1.6218E-03
520019.87	4258151.48	9324.93641	0.11385	3.30234	0.11927	2.90367	1.62E-03	2.67E-07	6.77E-06	2.80E-07	5.72E-06	1.6304E-03
520068.16	4259568.21	9322.18872	15.5962	0.09463	22.34603	0.09198	1.62E-03	3.66E-05	1.94E-07	5.25E-05	1.81E-07	1.7063E-03
520060.32	4258064.04	9316.86843	0.10417	12.4092	0.10848	8.11523	1.62E-03	2.45E-07	2.55E-05	2.55E-07	1.60E-05	1.6579E-03
519978.21	4258298.5	9316.75908	0.1472	1.65378	0.15228	1.53609	1.62E-03	3.46E-07	3.39E-06	3.58E-07	3.02E-06	1.6231E-03
520786.56	4258541.19	9289.57364	0.09521	0.09337	0.09237	0.09641	1.61E-03	2.24E-07	1.91E-07	2.17E-07	1.90E-07	1.6121E-03
520028.52	4259548.27	9288.97956	4.65018	0.09347	6.19428	0.09183	1.61E-03	1.09E-05	1.92E-07	1.45E-05	1.81E-07	1.6370E-03
519991.67	4258233.03	9288.29264	0.12811	2.00629	0.13216	1.8425	1.61E-03	3.01E-07	4.11E-06	3.10E-07	3.63E-06	1.6194E-03
519969.8	4258433.17	9286.65983	0.22411	1.44246	0.23461	1.33715	1.61E-03	5.26E-07	2.96E-06	5.51E-07	2.63E-06	1.6174E-03
520009.85	4258175.59	9284.92134	0.11707	2.71117	0.1218	2.43823	1.61E-03	2.75E-07	5.56E-06	2.88E-07	4.78E-06	1.6213E-03
519979.21	4258288.1	9266.24954	0.14524	1.67597	0.14813	1.55614	1.61E-03	3.36E-07	3.44E-06	3.04E-07	3.06E-06	1.6144E-03
519985.51	4258255.54	9242.89527	0.13339	1.82578	0.13772	1.68731	1.60E-03	3.13E-07	3.74E-06	3.23E-07	3.32E-06	1.6108E-03
519810.69	4258807.07	9239.13126	0.20486	0.28565	0.21321	0.27942	1.60E-03	4.81E-07	5.86E-07	5.01E-07	5.50E-07	1.6046E-03
519929.69	4258570.3	9230.2262	0.27779	0.82342	0.30089	0.78623	1.60E-03	6.52E-07	1.69E-06	7.06E-07	1.55E-06	1.6055E-03
519949.52	4258531.42	9226.61256	0.28431	1.04888	0.30744	0.98896	1.60E-03	6.67E-07	2.15E-06	7.22E-07	1.95E-06	1.6058E-03
519800.77	4258831.1	9215.91684	0.20072	0.2645	0.20835	0.25904	1.60E-03	4.71E-07	5.42E-07	4.89E-07	5.10E-07	1.6005E-03
520038.44	4259558.26	9214.92422	6.59381	0.09304	10.38266	0.09125	1.60E-03	1.55E-05	1.91E-07	2.44E-05	1.80E-07	1.6385E-03
519971.77	4258341.11	9212.19228	0.16361	1.51317	0.16924	1.40975	1.60E-03	3.84E-07	3.10E-06	3.97E-07	2.78E-06	1.6045E-03
520096.97	4257993.95	9211.90676	0.0972	18.12302	0.09869	18.37007	1.60E-03	2.28E-07	3.72E-05	2.32E-07	3.62E-05	1.6716E-03
519958.4	4258502.29	9196.64156	0.27507	1.20778	0.29593	1.12923	1.60E-03	6.46E-07	2.48E-06	6.95E-07	2.22E-06	1.6012E-03
520108.11	4257974.88	9191.18774	0.09545	11.34093	0.09632	13.25142	1.59E-03	2.24E-07	2.33E-05	2.26E-07	2.61E-05	1.6440E-03
520003.5	4258188.2	9182.01906	0.11839	2.42265	0.12264	2.19267	1.59E-03	2.78E-07	4.97E-06	2.88E-07	4.32E-06	1.6024E-03
520795.64	4258566.91	9179.07729	0.0933	0.09085	0.09079	0.09378	1.59E-03	2.19E-07	1.86E-07	2.13E-07	1.85E-07	1.5929E-03
520073.53	4259579.43	9176.91376	14.01962	0.09365	15.29984	0.09085	1.59E-03	3.29E-05	1.92E-07	3.59E-05	1.79E-07	1.6609E-03
519887.12	4258646.05	9174.82797	0.24589	0.53331	0.26231	0.51949	1.59E-03	5.77E-07	1.09E-06	6.16E-07	1.02E-06	1.5946E-03
519966.23	4258466.09	9173.17028	0.24986	1.35425	0.26537	1.25654	1.59E-03	5.87E-07	2.78E-06	6.23E-07	2.47E-06	1.5975E-03
519970.5	4258351.62	9172.05425	0.16829	1.48644	0.17415	1.38533	1.59E-03	3.95E-07	3.05E-06	4.09E-07	2.73E-06	1.5974E-03
519939.61	4258550.86	9170.87981	0.28145	0.9259	0.3042	0.87931	1.59E-03	6.61E-07	1.90E-06	7.14E-07	1.73E-06	1.5957E-03
519992.55	4258222.68	9169.81687	0.12493	2.03179	0.12884	1.86413	1.59E-03	2.93E-07	4.17E-06	3.02E-07	3.67E-06	1.5989E-03
519845.6	4258727.71	9156.44241	0.22008	0.3773	0.23109	0.36772	1.59E-03	5.17E-07	7.74E-07	5.43E-07	7.24E-07	1.5907E-03
519968.92	4258386.77	9154.02493	0.18797	1.44673	0.19508	1.34722	1.59E-03	4.41E-07	2.97E-06	4.58E-07	2.65E-06	1.5942E-03
519877.12	4258664.6	9152.52742	0.23879	0.48847	0.25301	0.47652	1.59E-03	5.61E-07	1.00E-06	5.94E-07	9.38E-07	1.5906E-03
519815.06	4258793.63	9150.26747	0.20541	0.29685	0.21388	0.29029	1.59E-03	4.82E-07	6.09E-07	5.02E-07	5.71E-07	1.5892E-03
519986.38	4258245.19	9149.26541	0.13	1.84963	0.13412	1.70791	1.59E-03	3.05E-07	3.79E-06	3.15E-07	3.36E-06	1.5947E-03
519968.57	4258411.89	9144.65833	0.20531	1.43072	0.21379	1.33004	1.59E-03	4.82E-07	2.93E-06	5.02E-07	2.62E-06	1.5926E-03
520794.31	4258452.29	9144.34753	0.09315	0.09201	0.09044	0.09548	1.59E-03	2.19E-07	1.89E-07	2.12E-07	1.88E-07	1.5869E-03
520020.36	4258141.29	9140.88848	0.11118	3.3309	0.11658	2.92466	1.59E-03	2.61E-07	6.83E-06	2.74E-07	5.76E-06	1.5986E-03
520787.99	4258487.44	9134.14999	0.09466	0.09339	0.0917	0.09671	1.58E-03	2.22E-07	1.92E-07	2.15E-07	1.90E-07	1.5851E-03
520028.53	4259558.27	9119.36458	4.75639	0.09212	6.38938	0.09052	1.58E-03	1.12E-05	1.89E-07	1.50E-05	1.78E-07	1.6082E-03
520010.47	4258165.34	9118.70179	0.1143	2.73877	0.11904	2.45173	1.58E-03	2.68E-07	5.62E-06	2.79E-07	4.83E-06	1.5926E-03
520050.5	4258074.01	9115.86746	0.10377	7.73284	0.10865	5.90757	1.58E-03	2.44E-07	1.59E-05	2.55E-07	1.16E-05	1.6091E-03
520791.1	4258469.75	9112.84737	0.09391	0.09274	0.09107	0.09614	1.58E-03	2.20E-07	1.90E-07	2.14E-07	1.89E-07	1.5834E-03
519867.12	4258683.15	9105.61893	0.23174	0.44955	0.24455	0.43844	1.58E-03	5.44E-07	9.22E-07	5.74E-07	8.63E-07	1.5822E-03
520063.63	4259579.45	9088.08683	14.7088	0.09262	29.17623	0.09021	1.58E-03	3.45E-05	1.90E-07	6.85E-05	1.78E-07	1.6797E-03
520098.29	4257984.85	9057.52745	0.09557	16.98966	0.09692	17.78398	1.57E-03	2.24E-07	3.48E-05	2.28E-07	3.50E-05	1.6413E-03
520059.57	4258053.82	9052.75742	0.10151	11.8343	0.10573	7.79413	1.57E-03	2.38E-07	2.48E-05	2.48E-07	1.53E-05	1.6103E-03
520038.45	4259568.26	9046.83487	6.78536	0.09171	10.95257	0.08995	1.57E-03	1.59E-05	1.88E-07	2.57E-05	1.77E-07	1.6111E-03
519993.36	4258212.35	9044.7432	0.12186	2.05745	0.12567	1.88502	1.57E-03	2.86E-07	4.22E-06	2.95E-07	3.71E-06	1.5773E-03
519899.89	4258618.91	9025.0365	0.25304	0.60311	0.2717	0.58573	1.57E-03	5.94E-07	1.24E-06	6.38E-07	1.15E-06	1.5690E-03
520790.44	4258523.96	9024.35512	0.09424	0.09274	0.09138	0.09577	1.57E-03	2.21E-07	1.90E-07	2.15E-07	1.89E-07	1.5660E-03
520073.55	4259589.43	9008.68365	13.47585	0.09231	14.54239	0.08957	1.56E-03	3.16E-05	1.89E-07	3.41E-05	1.76E-07	1.6287E-03
519966.38	4258441.47	9000.30575	0.22666	1.37529	0.23782	1.27769	1.56E-03	5.32E-07	2.82E-06	5.58E-07	2.52E-06	1.5675E-03
519803.9	4258814.74	8989.96271	0.19854	0.27457	0.20624	0.26877	1.56E-03	4.66E-07	5.63E-07	4.84E-07	5.29E-07	1.5613E-03
520790.78	4258514.83	8984.51318	0.09414	0.0927	0.09124	0.09578	1.56E-03	2.21E-07	1.90E-07	2.14E-07	1.89E-07	1.5591E-03
519959.36	4258492.59	8982.68706	0.26474	1.21761	0.28385	1.13808	1.56E-03	6.22E-07	2.50E-06	6.66E-07	2.24E-06	1.5640E-03
519839.13	4258736.23	8976.09505	0.21431	0.36067	0.22456	0.35181	1.56E-03	5.03E-07	7.40E-07	5.27E-07	6.93E-07	1.5593E-03
519962.78	4258474.49	8970.95114	0.25243	1.28892	0.26905	1.19979	1.56E-03	5.93E-07	2.64E-06	6.32E-07	2.36E-06	1.5622E-03
520108.14	4257964.88	8964.3861	0.09342	11.34151	0.09424	13.27536	1.55E-03	2.19E-07	2.33E-05	2.21E-07	2.61E-05	1.6047E-03
520791.12	4258505.7	8963.18617	0.09403	0.09262	0.09111	0.09576	1.55E-03	2.21E-07	1.90E-07	2.14E-07	1.89E-07	1.5554E-03
519860.91	4258692.29	8960.72871	0.22586	0.42876	0.23823	0.41796	1.55E-03	5.30E-07	8.79E-07	5.59E-07	8.23E-07	1.5570E-03
520791.46	4258496.57	8960.48903	0.09393	0.09255	0.09101	0.09575	1.55E-03	2.21E-07	1.90E-07	2.14E-07	1.88E-07	1.5550E-03
520028.55	4259568.27	8954.55006	4.86811	0.09081	6.60112	0.08924	1.55E-03	1.14E-05	1.86E-07	1.55E-05	1.76E-07	1.5804E-03
520011.05	4258155.12	8953.39691	0.11164	2.76509	0.11639	2.47229	1.55E-03	2.62E-07	5.67E-06	2.73E-07	4.87E-06	1.5640E-03
519909.81	4258599.47	8944.34895	0.25907	0.6676	0.27963	0.64511	1.55E-03	6.08E-07	1.37E-06	6.56E-07	1.27E-06	1.5553E-03
519833.53	4258746.84	8940.22306	0.21103	0.3457	0.22077	0.3374	1.55E-03	4.95E-07	7.09E-07	5.18E-07	6.64E-07	1.5530E-03
520063.65	4259589.45	8922.5916	14.4781	0.0913	26.94141	0.08894	1.55E-03	3.40E-05	1.87E-07	6.32E-05	1.75E-07	1.6452E-03
519994.11	4258202.06	8914.47694	0.11891	2.07672	0.12263	1.90169	1.55E-03	2.79E-07	4.26E-06	2.88E-07	3.74E-06	1.5547E-03
520797.74	4258461.3	8911.78299	0.09246	0.09122	0.08975	0.09457	1.55E-03	2.17E-07	1.87E-07	2.11E-07	1.86E-07	1.5465E-03
520794.56	4258478.82	8907.95756	0.0932	0.09189	0.09037	0.09517	1.55E-03	2.19E-07	1.88E-07	2

520800.09	4258533.47	8685.76217	0.09218	0.09037	0.0895	0.09325	1.51E-03	2.16E-07	1.85E-07	2.10E-07	1.84E-07	1.5073E-03
519848.29	4258710.1	8675.83386	0.21495	0.3909	0.22589	0.38128	1.50E-03	5.05E-07	8.02E-07	5.30E-07	7.51E-07	1.5074E-03
519977.73	4258248.76	8674.66154	0.12731	1.63443	0.13127	1.52116	1.50E-03	2.99E-07	3.35E-06	3.08E-07	2.99E-06	1.5115E-03
520033.94	4259589.5	8665.97333	0.10968	0.08858	0.29212	0.08698	1.50E-03	1.43E-05	1.82E-07	2.18E-05	1.71E-07	1.5396E-03
520049.79	4258053.79	8659.7136	0.09886	7.48118	0.10351	5.70835	1.50E-03	2.32E-07	1.53E-05	2.43E-07	1.12E-05	1.5290E-03
520059.64	4258033.82	8643.83059	0.09709	11.78613	0.10102	7.76828	1.50E-03	2.28E-07	2.42E-05	2.37E-07	1.53E-05	1.5392E-03
519811.44	4258785.04	8635.90186	0.1967	0.29577	0.20449	0.28938	1.50E-03	4.62E-07	6.07E-07	4.80E-07	5.70E-07	1.5000E-03
520098.35	4257964.85	8630.39604	0.09159	17.00253	0.0928	17.84891	1.50E-03	2.15E-07	3.49E-05	2.18E-07	3.51E-05	1.5673E-03
520800.43	4258524.34	8628.65184	0.09207	0.09043	0.08935	0.09333	1.50E-03	2.16E-07	1.85E-07	2.10E-07	1.84E-07	1.4974E-03
519984.55	4258215.99	8613.38912	0.11942	1.80161	0.12294	1.66492	1.49E-03	2.80E-07	3.69E-06	2.89E-07	3.28E-06	1.5015E-03
519949.44	4258512.03	8612.49906	0.26443	1.06738	0.28406	1.00591	1.49E-03	6.21E-07	2.19E-06	6.67E-07	1.98E-06	1.4993E-03
520063.68	4259609.45	8605.38064	13.80921	0.08876	23.1832	0.0865	1.49E-03	3.24E-05	1.82E-07	5.44E-05	1.70E-07	1.5798E-03
519963.34	4258344.59	8593.14387	0.15927	1.35759	0.16443	1.27261	1.49E-03	3.74E-07	2.78E-06	3.86E-07	2.51E-06	1.4965E-03
520002.23	4258158.76	8591.90534	0.1095	2.35647	0.11352	2.13449	1.49E-03	2.57E-07	4.83E-06	2.67E-07	4.20E-06	1.4998E-03
520800.77	4258515.21	8589.32955	0.09197	0.09041	0.08922	0.09336	1.49E-03	2.16E-07	1.85E-07	2.09E-07	1.84E-07	1.4906E-03
519899.85	4258609.21	8582.40452	0.24638	0.6095	0.26454	0.59174	1.49E-03	5.78E-07	1.25E-06	6.21E-07	1.16E-06	1.4922E-03
520024.04	4259589.51	8579.86585	4.41989	0.08775	5.86682	0.0863	1.49E-03	1.04E-05	1.80E-07	1.38E-05	1.70E-07	1.5126E-03
520801.11	4258506.07	8568.50003	0.09188	0.09034	0.08911	0.09334	1.49E-03	2.16E-07	1.85E-07	2.09E-07	1.84E-07	1.4870E-03
520801.46	4258496.94	8564.78883	0.09179	0.09026	0.08901	0.09331	1.49E-03	2.15E-07	1.85E-07	2.09E-07	1.84E-07	1.4863E-03
519961.94	4258479.47	8562.15274	0.1769	1.32553	0.18298	1.24218	1.49E-03	4.16E-07	2.72E-06	4.30E-07	2.45E-06	1.4911E-03
519961.72	4258404.27	8557.80579	0.19238	1.31535	0.1996	1.23018	1.48E-03	4.52E-07	2.70E-06	4.69E-07	2.42E-06	1.4904E-03
520108.2	4257944.88	8540.73115	0.0896	11.32107	0.09032	13.32047	1.48E-03	2.10E-07	2.32E-05	2.12E-07	2.62E-05	1.5312E-03
520073.6	4259619.43	8531.6094	12.2302	0.08849	12.508	0.08591	1.48E-03	2.87E-05	1.81E-07	2.94E-05	1.69E-07	1.5382E-03
519841.9	4258718.8	8529.83704	0.20969	0.37372	0.21988	0.36474	1.48E-03	4.92E-07	7.66E-07	5.16E-07	7.18E-07	1.4820E-03
519961.26	4258429.66	8527.47625	0.21018	1.2967	0.21936	1.21071	1.48E-03	4.93E-07	2.66E-06	5.15E-07	2.38E-06	1.4851E-03
519959.56	4258458.05	8515.8988	0.23155	1.25234	0.24464	1.16925	1.48E-03	5.44E-07	2.57E-06	5.74E-07	2.30E-06	1.4830E-03
520033.96	4259599.5	8513.27595	6.27546	0.08736	9.75832	0.08579	1.48E-03	1.47E-05	1.79E-07	2.29E-05	1.69E-07	1.5146E-03
520804.59	4258479.31	8513.18824	0.0911	0.08958	0.0884	0.09272	1.48E-03	2.14E-07	1.84E-07	2.08E-07	1.83E-07	1.4774E-03
519800.21	4258805.95	8506.61892	0.19026	0.27384	0.19791	0.26817	1.48E-03	4.47E-07	5.62E-07	4.63E-07	5.28E-07	1.4774E-03
519985.37	4258205.66	8505.2372	0.11658	1.82032	0.11996	1.68085	1.48E-03	2.74E-07	3.73E-06	2.82E-07	3.31E-06	1.4828E-03
520806.47	4258542.11	8500.1315	0.09084	0.08878	0.0883	0.09157	1.47E-03	2.13E-07	1.82E-07	2.07E-07	1.80E-07	1.4751E-03
519909.77	4258589.78	8498.54102	0.25168	0.67561	0.27152	0.65171	1.47E-03	5.91E-07	1.39E-06	6.37E-07	1.28E-06	1.4779E-03
519991.95	4258182.97	8492.74386	0.11246	2.00103	0.11588	1.83563	1.47E-03	2.64E-07	4.10E-06	2.72E-07	3.61E-06	1.4813E-03
520049.82	4258043.79	8466.39703	0.0967	7.46664	0.10121	5.69014	1.47E-03	2.27E-07	1.53E-05	2.38E-07	1.12E-05	1.4954E-03
520063.7	4259619.45	8453.44406	15.30187	0.08754	21.59285	0.08532	1.47E-03	3.59E-05	1.80E-07	5.07E-05	1.68E-07	1.5532E-03
520059.67	4258023.82	8453.28413	0.09503	11.7595	0.09879	7.78925	1.47E-03	2.23E-07	2.41E-05	2.32E-07	1.53E-05	1.5061E-03
520002.83	4258148.52	8445.72991	0.10702	2.37794	0.11107	2.15133	1.46E-03	2.51E-07	4.88E-06	2.61E-07	4.23E-06	1.4745E-03
520024.06	4259599.51	8429.9877	4.50212	0.08655	6.03702	0.08512	1.46E-03	1.06E-05	1.78E-07	1.42E-05	1.68E-07	1.4872E-03
520098.38	4257954.85	8429.70678	0.08972	16.99525	0.09085	17.89593	1.46E-03	2.11E-07	3.49E-05	2.13E-07	3.52E-05	1.5326E-03
519919.69	4258570.34	8423.22993	0.25631	0.75176	0.27599	0.72115	1.46E-03	6.02E-07	1.54E-06	6.48E-07	1.42E-06	1.4652E-03
519939.52	4258531.47	8413.37607	0.26239	0.94297	0.28203	0.89516	1.46E-03	6.16E-07	1.93E-06	6.62E-07	1.76E-06	1.4642E-03
519986.13	4258195.36	8391.78156	0.11384	1.83219	0.11709	1.69148	1.46E-03	2.67E-07	3.76E-06	2.75E-07	3.33E-06	1.4631E-03
519929.61	4258550.9	8380.75071	0.25984	0.8394	0.27918	0.80155	1.45E-03	6.10E-07	1.72E-06	6.55E-07	1.58E-06	1.4582E-03
519835.46	4258727.38	8379.70208	0.20448	0.35756	0.21394	0.34922	1.45E-03	4.80E-07	7.33E-07	5.02E-07	6.87E-07	1.4558E-03
519949.4	4258502.33	8372.37702	0.25504	1.07563	0.27306	1.01368	1.45E-03	5.99E-07	2.21E-06	6.41E-07	2.00E-06	1.4576E-03
519992.7	4258172.68	8367.20354	0.1099	2.01927	0.11328	1.85054	1.45E-03	2.58E-07	4.14E-06	2.66E-07	3.64E-06	1.4596E-03
519877.12	4258646.05	8364.76888	0.228	0.4978	0.24248	0.48617	1.45E-03	5.35E-07	1.02E-06	5.69E-07	9.57E-07	1.4539E-03
520033.98	4259609.5	8364.72698	6.42369	0.08616	10.26254	0.08462	1.45E-03	1.51E-05	1.77E-07	2.41E-05	1.67E-07	1.4903E-03
520070.31	4259629.84	8350.57319	12.64934	0.08693	13.73692	0.08452	1.45E-03	2.97E-05	1.78E-07	3.22E-05	1.66E-07	1.5107E-03
519867.12	4258664.6	8348.60193	0.22158	0.45773	0.23426	0.44762	1.45E-03	5.20E-07	9.39E-07	5.50E-07	8.81E-07	1.4509E-03
519973.75	4258240.42	8348.25058	0.12277	1.54942	0.12646	1.4464	1.45E-03	2.88E-07	3.18E-06	2.97E-07	2.85E-06	1.4546E-03
519829.76	4258737.74	8345.33736	0.20125	0.343	0.21017	0.33515	1.45E-03	4.72E-07	7.03E-07	4.93E-07	6.60E-07	1.4498E-03
520808.02	4258488.31	8343.84675	0.09041	0.08877	0.08773	0.0918	1.45E-03	2.12E-07	1.82E-07	2.06E-07	1.81E-07	1.4480E-03
519965.74	4258283.67	8341.81323	0.13429	1.4027	0.13834	1.31575	1.45E-03	3.15E-07	2.88E-06	3.25E-07	2.59E-06	1.4530E-03
520018.23	4257934.88	8341.03208	0.0878	11.30504	0.08846	13.32766	1.45E-03	2.06E-07	2.25E-05	2.08E-07	2.62E-05	1.4965E-03
519814.56	4258768.65	8336.43542	0.19406	0.30658	0.2018	0.29994	1.45E-03	4.56E-07	6.29E-07	4.74E-07	5.90E-07	1.4481E-03
519966.96	4258273.18	8317.23167	0.13101	1.42308	0.13498	1.33445	1.44E-03	3.08E-07	2.92E-06	3.17E-07	2.63E-06	1.4488E-03
519857.12	4258683.15	8313.33045	0.25115	0.42278	0.22661	0.41327	1.44E-03	5.05E-07	8.67E-07	5.32E-07	8.14E-07	1.4446E-03
519958.39	4258388.1	8301.57092	0.1789	1.26814	0.18499	1.19031	1.44E-03	4.20E-07	2.60E-06	4.34E-07	2.34E-06	1.4457E-03
519958.46	4258363.67	8293.29343	0.16532	1.27523	0.17057	1.19846	1.44E-03	3.88E-07	2.62E-06	4.00E-07	2.36E-06	1.4442E-03
519793.42	4258813.64	8291.55989	0.18463	0.26353	0.19115	0.25822	1.44E-03	4.33E-07	5.40E-07	4.49E-07	5.08E-07	1.4401E-03
520024.08	4259609.51	8284.14679	4.57352	0.08537	6.21031	0.08397	1.44E-03	1.07E-05	1.75E-07	1.46E-05	1.65E-07	1.4625E-03
520049.85	4258033.79	8280.59908	0.09463	7.45115	0.099	5.67487	1.44E-03	2.22E-07	1.53E-05	2.32E-07	1.12E-05	1.4631E-03
519968.07	4258262.74	8277.73503	0.12781	1.44114	0.13167	1.35084	1.44E-03	3.00E-07	2.96E-06	3.09E-07	2.66E-06	1.4420E-03
519974.78	4258230.01	8277.19192	0.11987	1.57246	0.1234	1.46573	1.44E-03	2.81E-07	3.22E-06	2.90E-07	2.89E-06	1.4423E-03
520060.41	4259629.86	8274.43994	14.2798	0.086	25.60142	0.08393	1.44E-03	3.35E-05	1.76E-07	6.01E-05	1.65E-07	1.5291E-03
519958.12	4258413.02	8267.84038	0.1945	1.25572	0.2019	1.17667	1.44E-03	4.57E-07	2.58E-06	4.74E-07	2.32E-06	1.4398E-03
520059.7	4258013.82	8262.04532	0.093	11.73031	0.09665	7.73232	1.43E-03	2.18E-07	2.41E-05	2.27E-07	1.52E-05	1.4727E-03
520810.42	4258524.71	8257.98298	0.08997	0.0881	0.08738	0.09089	1.43E-03	2.11E-07	1.81E-07	2.05E-07	1.79E-07	1.4331E-03
519957.6	4258438.55	8252.09557	0.21251	1.23575	0.22243	1.15628	1.43E-03	4.99E-07	2.53E-06	5.22E-07	2.28E-06	1.4371E-03
519993.41	4258162.4	8239.99635	0.10742	2.03771	0.1108	1.86525	1.43E-03	2.52E-07	4.18E-06	2.60E-07	3.67E-06	1.4376E-03
519889.89	4258618.95	8235.40739	0.23443	0.5597	0.25066	0.54512	1.43E-03	5.50E-07	1.15E-06	5.88E-07	1.07E-06	1.4318E-03
520098.41	4257944.85	8234.79901	0.0879	16.98183	0.08897	17.9227	1.43E-03	2.06E-07	3.48E-05	2.09E-07	3.53E-05	1.4988E-03
519803.25	4258789.38	8230.10061	0.18775	0.28367	0.19473	0.27778	1.43E-03	4.41E-07	5.82E-07	4.57E-07	5.47E-07	1.4295E-03
519969.08	4258252.33	8225.20857	0.1247	1.45875	0.12845	1.36647	1.43E-03	2.93E-07	2.99E-06	3.02E-07	2.69E-06	1.4329E-03
519961.01	4258305.6	8221.48515	0.14033	1.32253	0.14438	1.24371	1.43E-03	3.29E-07	2.71E-06	3.39E-07	2.45E-06	1.4318E-03
520033.99	4259619.5	8220.1895	6.4907	0.085	10.75897	0.08349	1.43E-03	1.52E-05	1.74E-07	2.53E-05	1.64E-07	1.4666E-03
520810.77	4258515.58	8219.78912	0.08988	0.08813	0.08726	0.09095	1.43E-03	2.11E-07	1.81E-07	2.05E-07	1.79E-07	1.4265E-03
519962.16	4258295.14	8218.2439	0.13682	1.34204	0.1408	1.26124	1.43E-03	3.21E-07	2.75E-06	3.31E-07	2.48E-06	1.4313E-03
519959.73	4258316.12	8205.40008	0.14391	1.30057	0.14803	1.22383	1.42E-03	3.38E-07	2.67E-06	3.48E-07	2.41E-06	1.4290E-03
520070.33	4259639.84	8204.8411	12.85691	0.08573	13.08477	0.08338	1.42E-03	3.02E-05	1.76E-07	3.07E-05	1.64E-07	1.4843E-03
520811.11	4258506.45	8198.90697	0.0898	0.08809	0.08716	0.09096	1.42E-03	2.11E-07	1.81E-07	2.05E-07	1.79E-07	1.4228E-03
519823.33	4258746.35	8198.42087	0.19626	0.32873	0.20456	0.32142	1.42E-03	4.61E-07	6.74E-07	4.80E-07	6.33E-07	1.4242E-03
519975.74	4258219.63	8197.1414	0.11705	1.59166	0.12042	1.48204	1.42E-03	2.75E-07	3.26E-06	2.83E-07	2.92E-06	1.4285E-03
520811.45	4258497.32	8194.78395	0.08972	0.08801	0.08708	0.09093	1.42E-03	2.11E-07	1.81E-07	2.04E-07	1.79E-07	1.4221E-03
519850.88	4258692.21	8181.65504	0.20967	0.40393	0.22076	0.39458	1.42E-03	4.92E-07	8.28E-07	5.18E-07	7.77E-07	1.4217E-03
519949.36	4258492.63	8180.97518	0.2462	1.08384	0.26284	1.02119	1.42E-03	5.78E-07	2.22E-06	6.17E-07	2.01E-06	1.4244E-03
519899.81	4258599.52	8172.26441	0.23984	0.61622	0.25753	0.59761	1.42E-03	5.63E-07	1.26E-06	6.05E-07	1.18E-06	1.4210E-03
519958.3	4258326.69	8167.12555	0.14755	1.27765	0.15179	1.20282	1.42E-03	3.46E-07	2.62E-06	3.56E-07	2.37E-06	1.4222E-03
519952.73	4258474.64	8153.56106	0.23579	1.1422	0.25062	1.07252	1.41E-03	5.54E-07	2.34E-06	5.88E-07	2.11E-06	1.4198E-03
520108.26	4257924.88	8149.80056	0.08606	11.28447	0.08667	13.35796	1.41E-03	2.02E-07	2.31E-05	2.03E-07	2.63E-05	1.4634E-03
520024.09	4259619.51	8142.1185	4.62133	0.08423	6.37637	0.08284	1.41E-03	1.08E-05	1.73E-07	1.50E-05	1.63E-07	1.4384E-03
519807.83	4258776.44	8138.62067	0.18849	0.29434	0.19566	0.28816	1.41E-03	4.43E-07	6.04E-07	4.59E-07	5.67E-07	1.4137E-03
519939.48	4258521.77	8134.10583	0.25381	0.9512	0.27213	0.90258	1.41E-03	5.96E-07	1.95E-06	6.39E-07	1.78E-06	1.4158E-03
520060.43	4259639.86	8131.62282	13.87968	0.08485	23.71832	0.08282	1.41E-03	3.26E-05	1.74E-07	5.57E-05	1.63E-07	1.4990E-03
519983	4258186.67	8113.86371	0.11027	1.74587	0.1133	1.61567	1.41E-03	2.59E-07	3.58E-06	2.66E-07	3.18E-06	1.4146E-03
519994.07	4258152.14	8111.30278	0.10504	2.05493	0.10842	1.87871	1.41E-03	2.47E-07	4.21E-06	2.55E-07	3.70E-06	1.4153E-03
519976.62	4258209.27	8109.26556	0.11432	1.60981	0.11753	1.49711	1.41E-03	2.68E-07	3.30E-06	2.76E-07	2.95E-06	1.4133E-03
519956.71	4258337.34	8106.90069	0.15126	1.25289	0.15565	1.18009	1.41E-03	3.55E-07	2.57E-06	3.65E-07	2.32E-06	1.4117E-03
520049.88	4258023.79	8100.21619	0.09263	7.43587	0.09686	5.65535	1.40E-03	2.17E-07	1.53E-05	2.27E-07	1.11E-05	1.4318E-03
519909.73	4258580.08	8098.02581	0.24457	0.68274	0.26295	0.6581	1.40E-03	5.74E-07	1.40E-06	6.17E-07	1.30E-06	1.4085E-03
520059.73	4258003.82	8083.13495	0.09108	11.7036	0.09459	7.74149	1.40E-03	2.14E-07	2.40E-05	2.22E-07	1.52E-05	1.4417E-03
519844.57	4258701.11	8064.82291	0.20482	0.38622	0.21513	0.37741	1.40E-03	4.81E-07	7.92E-07	5.05E-07	7.43E-07	1.4013E-03
520070.34	4259649.84	8063.69044	12.27416	0.08458	12.35062	0.08228	1.40E-03	2.88E-05	1.73E-07	2.90E-05	1.62E-07	1.4568E-03
520030.71	4259629.91	8048.6814	5.86285	0.08356	9.18232	0.08212	1.40E-03	1.38E-05	1.71E-07	2.16E-05	1.62E-07	1.4317E-03
520098.45	4257934.85	8048.01104	0.08615	16.94831	0.08716	17.92595	1.40E-03	2.02E-07	3.48E-05	2.05E-07	3.53E-05	1.4663E-03
519954.95	4258372.2	8045.71418	0.167	1.22088	0.17221	1.14975	1.40E-03	3.92E-07	2.50E-06	4.04E-07	2.26E-06	1.4011E-03
519919.65	4258560.64	8038.41786	0.24843	0.75874	0.26635	0.72786	1.39E-03	5.83E-07	1.56E-06	6.25E-07	1.43E-06	1.3984E-03
519796.51	4258797.17	8034.27281	0.18239	0.27282	0.18885	0.2673	1.39E-03	4.28E-07	5.60E-07	4.43E-07	5.26E-07	1.3955E-03
519954.84	4258396.74	8031.60228	0.18081	1.21359	0.18695	1.14104	1.39E-03	4.24E-07	2.49E-06	4.39E-07	2.25E-06	1.3986E-03
519929.57	4258541.21	8023.32854	0.25123	0.84654	0.26917	0.80842	1.39E-03	5.90E-07	1.74E-06	6.32E-07	1.59E-06	1.3962E-03
519949.32	4258482.94	8016.58202	0.23757	1.09177	0.25292	1.02821	1.39E-03	5.58E-07	2.24E-06	5.94E-07	2.02E-06	1.3959E-03
519977.44	4258198.95	8015.20808	0.11169	1.62338	0.11474	1.50909	1.39E-03	2.62E-07	3.33E-06	2.69E-07	2.97E-06	1.3970E-03
519983.82	4258176.34	8007.46689	0.10781	1.76759	0.11077	1.63371	1.39E-03	2.53E-07	3.63E-06	2.60E-07	3.22E-06	1.3962E-03
519953.95	4258447.43	8006.95622	0.21481	1.17847	0.22567	1.1053	1.39E-03	5.04E-07	2.42E-06	5.30E-07	2.18E-06	1.3944E-03
519877.12	4258636.77	8003.58857	0.22294	0.50246	0.23739	0.49075	1.39E-03	5.23E-07	1.03E-06	5.57E-07	9.66E-07	1.3913E-03
519867.12	4258655.32	7994.92981	0.21679	0.46177	0.22959	0.45188	1.39E-03	5.09E-07	9.47E-07	5.39E-07	8.90E-07	1.3896E-03
520060.44	4259649.86	7992.87876	13.05629	0.08373	21.94417	0.08174	1.39E-03	3.07E-05	1.72E-07	5.15E-05	1.61E-07	1.4688E-03
519954.52	4258421.77	7991.54412	0.19657	1.19975	0.20437	1.12622	1.39E-03	4.61E-07	2.46E-06	4.80E-07	2.22E-06	1.3917E-03
519857.12	4258673.87	7973.62767	0.21071	0.42632	0.22204	0.41739	1.38E-03	4.95E-07	8.74E-07	5.21E-07	8.22E-07	1.3857E-03
520020.81	4259629.93	7972.99576	4.24324	0.08281	5.71165	0.08149	1.38E-03	9.96E-06	1.70E-07	1.34E-05	1.60E-07	1.4066E-03
520108.3	4257914.88	7968.49903	0.08439	11.25308	0.08494	13.39592	1.38E-03	1.98E-07	2.31E-05	1.99E-07	2.64E-05	1.4319E-03
519838.21	4258709.89	7946.3763	0.2001	0.3696	0.20963	0.36135	1.38E-03	4.70E-07	7.58E-07	4.92E-07	7.11E-07	1.3807E-03
520049.91	4258013.79	7927.9075	0.09071	7.41896	0.09481	5.64438	1.38E-03	2.13E-07	1.52E-05	2.23E-07	1.11E-05	1.4018E-03
520070.36	4259659.84	7926.21375	11.86413	0.08345	12.62687	0.08121	1.37E-03	2.79E-05	1.71E-07	2.72E-05	1.60E-07	1.4302E-03
520059.76	4257993.82	7912.71333	0.08923	11.66949	0.09261	7.75046	1.37E-03	2.09E-07	2.39E-05	2.17E-07	1.53E-05	1.4120E-03
520030.72	4259639.91	7912.45533	5.9885	0.08245	9.58054	0.08104	1.37E-03	1.41E-05	1.69E-07	2.25E-05	1.60E-07	1.4093E-03
519964.79	4258244.12	7906.64665	0.1202	1.37871	0.12364	1.29528	1.37E-03	2.82E-07	2.83E-06	2.90E-07	2.55E-06	1.3773E-03
519984.59	4258166.04	7897.80866	0.10543	1.78349	0.10832	1.64656	1.37E-03	2.48E-07	3.66E-06	2.54E-07	3.24E-06	1.3772E-03
519939.44	4258512.07	7883.60014	0.24539	0.95867	0.26234	0.90951	1.37E-03	5.76E-07	1.97E-06	6.16E-07	1.79E-06	1.3723E-03
520098.48	4257924.85	7867.78037	0.08447	16.91475	0.08541	17.93534	1.36E-03	1.98E-07	3.47E-05	2.01E-07	3.53E-05	1.4350E-03
520060.46	4259659.86	7857.18692	13.14081	0.08261	20.70183	0.08066	1.36E-03	3.09E-05	1.69E-07	4.86E-05	1.59E-07	1.4426E-03
519965.9	4258233.67	7857.09264	0.11744	1.39963	0.12079	1.31331	1.36E-03	2.76E-07	2.87E-06	2.84E-07	2.59E-06	1.3688E-03
519889.85	4258609.26	7856.80545	0.2286	0.56221	0.24442	0.5503	1.36E-03	5.37E-07	1.16E-06	5.74E-07	1.08E-06	1.3661E-03
519956.86	4258287.34	7849.49494	0.13118	1.25864	0.1347	1.18681	1.36E-03	3.08E-07	2.58E-06	3.16E-07	2.34E-06	1.3670E-03
519958.16	4258276.81	7844.80856	0.12809	1.27695	0.13157	1.20384	1.36E-03	3.01E-07	2.62E-06	3.09E-07	2.37E-06	1.3662E-03
519789.75	4258804.91	7843.97199	0.1772	0.26261	0.18317	0.25743	1.36E-03	4.16E-07	5.39E-07	4.30E-07	5.07E-07	1.3624E-03
520020.82	4259639.93	7839.19433	4.29381	0.08172	5.83053	0.08042	1.36E-03	1.01E-05	1.68E-07	1.37E-05	1.58E-07	1.3838E-03
519810.93	4258760	7833.77852	0.18588	0.30467	0.19304	0.29829	1.36E-03	4.36E-07	6.25E-07	4.53E-07	5.87E-07	1.3608E-03
519959.35	4258266.34	7825.49647	0.12507	1.29399	0.12852	1.21943	1.36E-03	2.94E-07	2.65E-06	3.02E-07	2.40E-06	1.3629E-03
519831.79	4258718.53	7819.44011	0.19532	0.35394	0.20415	0.34619	1.36E-03	4.59E-07	7.26E-07	4.79E-07	6.81E-07	1.3586E-03
519951.44	4258380.73	7803.98326	0.16871	1.17077	0.1739	1.10426	1.35E-03	3.96E-07	2.40E-06	4.08E-07	2.17E-06	1.3589E-03
519951.42	4258356.51	7801.20926	0.1565	1.17549	0.16101	1.10988	1.35E-03	3.67E-07	2.41E-06	3.78E-07	2.18E-06	1.3584E-03
520061.08	4259784.72	7796.95998	0.08786	12.57583	0.09107	8.08682	1.35E-03	2.06E-07	2.58E-05	2.14E-07	1.59E-05	1.3945E-03
519966.93	4258223.26	7796.65888	0.11475	1.41792	0.11798	1.32869	1.35E-03	2.69E-07	2.91E-06	2.77E-07	2.62E-06	1.3584E-03
519899.77	4258589.82	7793.46269	0.23338	0.62311	0.25044	0.60332	1.35E-03	5.48E-07	1.28E-06	5.88E-07	1.19E-06	1.3533E-03
520070.38	4259669.84	7792.58681	11.1891	0.08236	10.84525	0.08016	1.35E-03	2.63E-05	1.69E-07	2.55E-05	1.58E-07	1.4036E-03
519960.43	4258255.9	7792.53952	0.12213	1.13109	0.12553	1.23445	1.35E-03	2.87E-07	2.69E-06	2.95E

520070.41	4259689.84	7535.60043	9.66126	0.08024	9.07552	0.07812	1.31E-03	2.27E-05	1.65E-07	2.13E-05	1.54E-07	1.3513E-03
520030.77	4259669.91	7525.25702	6.06188	0.07928	10.48165	0.07794	1.31E-03	1.42E-05	1.63E-07	2.46E-05	1.53E-07	1.3444E-03
520098.54	4257904.85	7523.51768	0.08125	16.84107	0.08209	17.7278	1.30E-03	1.91E-07	3.45E-05	1.93E-07	3.49E-05	1.3747E-03
519947.74	4258414	7506.52562	0.18441	1.11297	0.19106	1.04985	1.30E-03	4.33E-07	2.28E-06	4.49E-07	2.07E-06	1.3072E-03
519889.81	4258599.56	7504.24501	0.22283	0.57104	0.23829	0.55536	1.30E-03	5.23E-07	1.17E-06	5.59E-07	1.09E-06	1.3049E-03
520051.29	4257984.69	7500.62366	0.08581	7.75292	0.08947	5.82602	1.30E-03	2.01E-07	1.59E-05	2.10E-07	1.15E-05	1.3287E-03
519840.84	4258692.13	7500.25121	0.19542	0.38111	0.20537	0.37308	1.30E-03	4.59E-07	7.82E-07	4.82E-07	7.34E-07	1.3033E-03
519947.32	4258439.27	7498.61926	0.20054	1.09675	0.20978	1.03369	1.30E-03	4.71E-07	2.25E-06	4.92E-07	2.03E-06	1.3058E-03
519939.36	4258492.68	7490.50484	0.22961	0.97239	0.24409	0.92238	1.30E-03	5.39E-07	1.99E-06	5.73E-07	1.82E-06	1.3041E-03
519955.83	4258247.82	7488.45771	0.11769	1.23952	0.12078	1.17013	1.30E-03	2.76E-07	2.54E-06	2.84E-07	2.30E-06	1.3042E-03
520060.51	4259689.86	7472.35959	12.35362	0.07944	15.97227	0.07761	1.30E-03	2.90E-05	1.63E-07	3.75E-05	1.53E-07	1.3629E-03
519929.48	4258521.81	7472.04466	0.23573	0.86039	0.25149	0.82117	1.30E-03	5.53E-07	1.76E-06	5.90E-07	1.62E-06	1.3005E-03
519976.54	4258159.37	7468.49598	0.10127	1.59187	0.1038	1.47802	1.30E-03	2.38E-07	3.26E-06	2.44E-07	2.91E-06	1.3020E-03
520061.14	4257964.73	7465.92086	0.08439	12.53169	0.0874	7.96796	1.29E-03	1.98E-07	2.57E-05	2.05E-07	1.57E-05	1.3367E-03
519942.98	4258474.09	7460.44872	0.22066	1.02424	0.23374	0.96883	1.29E-03	5.18E-07	2.10E-06	5.49E-07	1.91E-06	1.2991E-03
520020.87	4259669.93	7458.42197	4.30148	0.0786	6.02906	0.07736	1.29E-03	1.01E-05	1.61E-07	1.42E-05	1.52E-07	1.3182E-03
519957.02	4258237.34	7455.10803	0.11505	1.25354	0.11809	1.18289	1.29E-03	2.70E-07	2.57E-06	2.77E-07	2.33E-06	1.2985E-03
520108.39	4257884.88	7452.15466	0.07968	11.1791	0.0801	13.45922	1.29E-03	1.87E-07	2.29E-05	1.88E-07	2.65E-05	1.3423E-03
519899.73	4258580.12	7447.21844	0.2271	0.62933	0.243	0.60876	1.29E-03	5.33E-07	1.29E-06	5.70E-07	1.20E-06	1.2953E-03
519958.12	4258226.9	7412.3993	0.11249	1.2724	0.11549	1.19867	1.29E-03	2.64E-07	2.61E-06	2.71E-07	2.36E-06	1.2912E-03
520070.43	4259699.84	7412.1206	8.76311	0.07921	8.11911	0.07714	1.29E-03	2.06E-05	1.62E-07	1.91E-05	1.52E-07	1.3255E-03
519786.08	4258796.19	7409.45156	0.17016	0.26143	0.17565	0.2564	1.29E-03	3.99E-07	5.36E-07	4.12E-07	5.05E-07	1.2870E-03
519834.51	4258700.97	7405.26362	0.1912	0.36503	0.20028	0.35754	1.28E-03	4.49E-07	7.49E-07	4.70E-07	7.04E-07	1.2868E-03
520030.79	4259679.91	7402.81775	6.02065	0.07827	10.63062	0.07696	1.28E-03	1.41E-05	1.61E-07	2.50E-05	1.51E-07	1.3234E-03
519909.65	4258560.68	7400.9787	0.23062	0.69562	0.24607	0.66997	1.28E-03	5.41E-07	1.43E-06	5.78E-07	1.32E-06	1.2875E-03
519949.36	4258280.45	7398.30495	0.1252	1.15315	0.12818	1.09189	1.28E-03	2.94E-07	2.37E-06	3.01E-07	2.15E-06	1.2883E-03
519919.57	4258541.25	7397.17552	0.2334	0.7713	0.24881	0.74008	1.28E-03	5.48E-07	1.58E-06	5.84E-07	1.46E-06	1.2872E-03
519950.63	4258269.94	7396.27518	0.12236	1.16845	0.12531	1.10609	1.28E-03	2.87E-07	2.40E-06	2.94E-07	2.18E-06	1.2880E-03
519965.1	4258194.05	7392.99394	0.10614	1.37479	0.10887	1.28937	1.28E-03	2.49E-07	2.82E-06	2.56E-07	2.54E-06	1.2881E-03
519947.98	4258291	7385.58057	0.12809	1.13611	0.13112	1.07611	1.28E-03	3.01E-07	2.33E-06	3.08E-07	2.12E-06	1.2861E-03
519951.78	4258259.47	7380.21868	0.11957	1.1828	0.12251	1.11917	1.28E-03	2.81E-07	2.43E-06	2.88E-07	2.20E-06	1.2853E-03
520098.57	4257894.85	7360.38047	0.07972	16.80408	0.08051	17.65778	1.28E-03	1.87E-07	3.45E-05	1.89E-07	3.48E-05	1.3462E-03
519959.13	4258216.49	7359.86411	0.10999	1.28683	0.11291	1.21096	1.28E-03	2.58E-07	2.64E-06	2.65E-07	2.38E-06	1.2821E-03
519944.48	4258373.4	7355.07039	0.1595	1.08467	0.16392	1.02734	1.28E-03	3.74E-07	2.22E-06	3.85E-07	2.02E-06	1.2807E-03
519807.29	4258751.35	7354.38277	0.1782	0.30238	0.18484	0.29631	1.28E-03	4.18E-07	6.20E-07	4.34E-07	5.83E-07	1.2776E-03
520060.53	4259699.86	7350.70615	11.03371	0.07844	13.78763	0.07663	1.27E-03	2.59E-05	1.61E-07	3.24E-05	1.51E-07	1.3335E-03
519867.12	4258636.77	7348.19059	0.20777	0.46984	0.22054	0.45997	1.27E-03	4.88E-07	9.64E-07	5.18E-07	9.05E-07	1.2774E-03
520051.32	4257974.69	7341.8536	0.08411	7.74161	0.08768	5.7963	1.27E-03	1.97E-07	1.59E-05	2.06E-07	1.14E-05	1.3011E-03
519944.17	4258349.89	7341.14922	0.14851	1.08414	0.15236	1.02808	1.27E-03	3.49E-07	2.22E-06	3.58E-07	2.02E-06	1.2782E-03
519939.32	4258482.98	7339.40504	0.22212	0.97896	0.23557	0.92837	1.27E-03	5.21E-07	2.01E-06	5.53E-07	1.83E-06	1.2779E-03
520020.89	4259679.93	7337.93586	4.26608	0.07761	6.00125	0.07639	1.27E-03	1.00E-05	1.59E-07	1.41E-05	1.50E-07	1.2971E-03
519857.12	4258655.32	7337.49849	0.20217	0.43335	0.21366	0.42495	1.27E-03	4.75E-07	8.89E-07	5.02E-07	8.37E-07	1.2754E-03
519966.06	4258183.67	7320.35955	0.10385	1.38871	0.10644	1.30093	1.27E-03	2.44E-07	2.85E-06	2.50E-07	2.56E-06	1.2756E-03
519847.12	4258673.87	7319.09416	0.19661	0.40136	0.20686	0.39375	1.27E-03	4.62E-07	8.23E-07	4.86E-07	7.75E-07	1.2720E-03
519944.42	4258397.79	7313.99113	0.17201	0.17738	0.17738	1.02	1.27E-03	4.04E-07	2.21E-06	4.16E-07	2.01E-06	1.2736E-03
520061.17	4257954.73	7310.8214	0.08276	12.51636	0.08567	7.92699	1.27E-03	1.94E-07	2.57E-05	2.01E-07	1.56E-05	1.3097E-03
519828.13	4258709.69	7300.58246	0.18686	0.34987	0.19522	0.34282	1.27E-03	4.39E-07	7.18E-07	4.58E-07	6.75E-07	1.2685E-03
519960.07	4258206.12	7299.85257	0.10757	1.29919	0.11038	1.22165	1.27E-03	2.53E-07	2.66E-06	2.59E-07	2.40E-06	1.2717E-03
519943.72	4258448.02	7295.5875	0.20244	1.04922	0.21248	0.99127	1.27E-03	4.75E-07	2.15E-06	4.99E-07	1.95E-06	1.2705E-03
520108.42	4257874.88	7294.95778	0.07823	11.14128	0.07859	13.46663	1.27E-03	1.84E-07	2.28E-05	1.85E-07	2.65E-05	1.3150E-03
520070.44	4259708.84	7291.81665	7.8666	0.07821	7.16082	0.07618	1.26E-03	1.85E-05	1.60E-07	1.68E-05	1.50E-07	1.3003E-03
519795.81	4258771.68	7286.06244	0.1725	0.28047	0.1784	0.275	1.26E-03	4.05E-07	5.75E-07	4.19E-07	5.41E-07	1.2657E-03
519945.11	4258302.18	7285.52685	0.13054	1.0999	0.13356	1.04325	1.26E-03	3.06E-07	2.26E-06	3.14E-07	2.05E-06	1.2686E-03
520030.81	4259689.91	7283.4377	5.95256	0.07728	10.62462	0.07599	1.26E-03	1.40E-05	1.58E-07	2.49E-05	1.50E-07	1.3025E-03
519944.18	4258422.63	7265.33986	0.18617	1.06677	0.19338	1.0079	1.26E-03	4.37E-07	2.19E-06	4.54E-07	1.98E-06	1.2652E-03
519822.21	4258719.55	7263.2403	0.18372	0.33605	0.19137	0.32941	1.26E-03	4.31E-07	6.89E-07	4.49E-07	6.48E-07	1.2620E-03
519929.44	4258512.11	7250.41231	0.22846	0.86679	0.24314	0.82706	1.26E-03	5.36E-07	1.78E-06	5.71E-07	1.63E-06	1.2621E-03
519943.8	4258312.7	7245.5484	0.13354	1.08136	0.13665	1.02675	1.26E-03	3.14E-07	2.22E-06	3.21E-07	2.02E-06	1.2616E-03
519966.95	4258173.32	7242.70025	0.10164	1.40442	0.10411	1.31178	1.26E-03	2.39E-07	2.88E-06	2.44E-07	2.59E-06	1.2622E-03
520060.54	4259709.86	7232.0975	9.57358	0.07745	11.39704	0.07568	1.25E-03	2.25E-05	1.59E-07	2.68E-05	1.49E-07	1.3039E-03
519879.85	4258609.3	7223.1348	0.21279	0.52594	0.22682	0.51317	1.25E-03	5.00E-07	1.08E-06	5.33E-07	1.01E-06	1.2559E-03
520020.91	4259689.93	7220.32485	4.23336	0.07662	5.89534	0.07543	1.25E-03	9.94E-06	1.57E-07	1.38E-05	1.48E-07	1.2764E-03
520098.6	4257884.85	7205.4782	0.07825	16.76329	0.07899	17.90194	1.25E-03	1.84E-07	3.44E-05	1.85E-07	3.52E-05	1.3197E-03
519800.59	4258759.26	7203.83546	0.17346	0.29053	0.17957	0.28486	1.25E-03	4.07E-07	5.96E-07	4.22E-07	5.61E-07	1.2515E-03
519942.36	4258323.29	7193.9934	0.13665	1.06376	0.13987	1.01069	1.25E-03	3.21E-07	2.18E-06	3.28E-07	1.99E-06	1.2526E-03
520051.35	4257964.69	7188.96235	0.08247	7.73221	0.08594	5.754	1.25E-03	1.94E-07	1.59E-05	2.02E-07	1.13E-05	1.2745E-03
519889.77	4258589.86	7179.15401	0.21716	0.57694	0.23205	0.56028	1.25E-03	5.10E-07	1.18E-06	5.45E-07	1.10E-06	1.2485E-03
520070.46	4259719.84	7174.61957	7.01039	0.07723	6.10521	0.07524	1.24E-03	1.65E-05	1.58E-07	1.43E-05	1.48E-07	1.2755E-03
520030.82	4259699.91	7167.03323	5.803	0.07632	10.28282	0.07505	1.24E-03	1.36E-05	1.57E-07	2.41E-05	1.48E-07	1.2812E-03
520061.2	4257944.73	7161.83804	0.08119	12.50865	0.08399	7.89996	1.24E-03	1.91E-07	2.57E-05	1.97E-07	1.56E-05	1.2838E-03
519967.78	4258162.99	7160.47962	0.09949	1.41739	0.10184	1.32414	1.24E-03	2.34E-07	2.91E-06	2.39E-07	2.61E-06	1.2479E-03
519815.84	4258728.3	7158.04355	0.17948	0.32266	0.18665	0.3163	1.24E-03	4.21E-07	6.62E-07	4.38E-07	6.23E-07	1.2437E-03
520108.45	4257864.88	7139.47084	0.0768	11.12303	0.07713	13.48321	1.24E-03	1.80E-07	2.28E-05	1.81E-07	2.65E-05	1.2880E-03
519789.12	4258779.6	7136.56743	0.16794	0.26993	0.1734	0.26478	1.24E-03	3.94E-07	5.54E-07	4.07E-07	5.21E-07	1.2397E-03
519899.69	4258570.42	7132.0117	0.2209	0.63516	0.2355	0.61399	1.24E-03	5.19E-07	1.30E-06	5.53E-07	1.21E-06	1.2406E-03
519941	4258181.84	7128.48	0.16095	1.04298	0.1654	0.98911	1.24E-03	3.78E-07	2.14E-06	3.88E-07	1.95E-06	1.2413E-03
519919.52	4258531.55	7128.30961	0.22634	0.77709	0.24082	0.74557	1.24E-03	5.31E-07	1.59E-06	5.65E-07	1.47E-06	1.2405E-03
519940.51	4258358.78	7126.60966	0.14992	1.04099	0.15371	0.98862	1.24E-03	3.52E-07	2.13E-06	3.61E-07	1.95E-06	1.2409E-03
519940.12	4258456.77	7117.77234	0.20417	1.00401	0.21488	0.95107	1.23E-03	4.79E-07	2.06E-06	5.04E-07	1.87E-06	1.2395E-03
520060.56	4259719.86	7116.51655	9.41125	0.07647	8.79644	0.07474	1.23E-03	2.21E-05	1.57E-07	2.07E-05	1.47E-07	1.2774E-03
519909.61	4258550.99	7106.01266	0.22393	0.70103	0.23817	0.67534	1.23E-03	5.26E-07	1.44E-06	5.59E-07	1.33E-06	1.2364E-03
520020.92	4259699.93	7105.73378	4.13191	0.07567	5.67516	0.07449	1.23E-03	9.70E-06	1.55E-07	1.33E-05	1.47E-07	1.2558E-03
519946.87	4258251.51	7089.2089	0.11519	1.11977	0.11782	1.06127	1.23E-03	2.70E-07	2.30E-06	2.77E-07	2.09E-06	1.2346E-03
519940.91	4258406.32	7078.23637	0.17362	1.03602	0.17933	0.98108	1.23E-03	4.08E-07	2.12E-06	4.21E-07	1.93E-06	1.2326E-03
519948.14	4258241	7071.80097	0.1127	1.13203	0.11533	1.07291	1.23E-03	2.65E-07	2.32E-06	2.71E-07	2.11E-06	1.2315E-03
520070.48	4259728.84	7060.3235	6.05315	0.07624	5.06903	0.0743	1.22E-03	1.42E-05	1.56E-07	1.19E-05	1.46E-07	1.2510E-03
519929.4	4258502.42	7057.31073	0.22143	0.87268	0.23503	0.8326	1.22E-03	5.20E-07	1.79E-06	5.52E-07	1.64E-06	1.2286E-03
520030.84	4259709.91	7053.6341	5.5637	0.07537	9.42302	0.07413	1.22E-03	1.31E-05	1.55E-07	2.21E-05	1.46E-07	1.2589E-03
520098.63	4257874.85	7052.88558	0.07682	16.73372	0.07751	17.80573	1.22E-03	1.80E-07	3.43E-05	1.82E-07	3.51E-05	1.2930E-03
519956.16	4258751.72	7052.29513	0.10416	1.23749	0.10677	1.16579	1.22E-03	2.45E-07	2.54E-06	2.51E-07	2.29E-06	1.2285E-03
519940.63	4258431.27	7049.6439	0.18794	1.02314	0.19587	0.96837	1.22E-03	4.41E-07	2.10E-06	4.60E-07	1.91E-06	1.2276E-03
519857.12	4258646.05	7047.08079	0.19814	0.43687	0.20964	0.42852	1.22E-03	4.65E-07	8.96E-07	4.92E-07	8.44E-07	1.2250E-03
520051.38	4257954.69	7044.25264	0.08097	7.72073	0.08427	5.72403	1.22E-03	1.90E-07	1.58E-05	1.98E-07	1.13E-05	1.2490E-03
519949.3	4258230.54	7043.99405	0.11027	1.14736	0.11291	1.08615	1.22E-03	2.59E-07	2.35E-06	2.65E-07	2.14E-06	1.2268E-03
519847.12	4258664.6	7031.70107	0.1928	0.40443	0.20313	0.39711	1.22E-03	4.53E-07	8.29E-07	4.77E-07	7.82E-07	1.2222E-03
520061.23	4257934.73	7022.27566	0.07969	12.49498	0.08238	7.88064	1.22E-03	1.87E-07	2.56E-05	1.93E-07	1.55E-05	1.2595E-03
519837.12	4258683.15	7011.43725	0.18749	0.37582	0.19676	0.36895	1.22E-03	4.40E-07	7.71E-07	4.62E-07	7.26E-07	1.2185E-03
519950.38	4258220.1	7007.04133	0.10788	1.16161	0.11052	1.09815	1.22E-03	2.53E-07	2.38E-06	2.59E-07	2.16E-06	1.2204E-03
520060.58	4259729.86	7003.96195	7.60776	0.07552	6.63057	0.07382	1.21E-03	1.79E-05	1.55E-07	1.56E-05	1.45E-07	1.2488E-03
520020.94	4259709.93	6994.13656	3.97908	0.07474	5.34059	0.07358	1.21E-03	9.34E-06	1.53E-07	1.25E-05	1.45E-07	1.2353E-03
519957.17	4258187.34	6993.89141	0.10196	1.24977	0.10446	1.17621	1.21E-03	2.39E-07	2.56E-06	2.45E-07	2.32E-06	1.2184E-03
519782.41	4258787.46	6989.80186	0.1635	0.25999	0.16855	0.25514	1.21E-03	3.84E-07	5.33E-07	3.96E-07	5.02E-07	1.2142E-03
519941.9	4258273.54	6989.53392	0.11966	1.06072	0.12216	1.00792	1.21E-03	2.81E-07	2.18E-06	2.87E-07	1.98E-06	1.2170E-03
519943.13	4258263.04	6988.7989	0.11703	1.07344	0.11951	1.01965	1.21E-03	2.75E-07	2.20E-06	2.81E-07	2.01E-06	1.2169E-03
520108.48	4257854.88	6988.40894	0.07542	11.11171	0.07571	13.5012	1.21E-03	1.77E-07	2.28E-05	1.78E-07	2.66E-05	1.2618E-03
519940.57	4258284.08	6977.16028	0.12234	1.04669	0.12489	0.9949	1.21E-03	2.87E-07	2.15E-06	2.93E-07	1.96E-06	1.2148E-03
519936.52	4258465.52	6968.46208	0.2057	0.96133	0.2169	0.91301	1.21E-03	4.83E-07	1.97E-06	5.09E-07	1.80E-06	1.2134E-03
519951.39	4258209.7	6962.04122	0.10556	1.17329	0.10816	1.10827	1.21E-03	2.48E-07	2.41E-06	2.54E-07	2.18E-06	1.2126E-03
519869.89	4258619.04	6955.69117	0.20335	0.48636	0.21606	0.47583	1.21E-03	4.77E-07	9.97E-07	5.07E-07	9.37E-07	1.2094E-03
519939.1	4258294.67	6949.12788	0.12504	1.03102	0.12766	0.98038	1.21E-03	2.94E-07	2.11E-06	3.00E-07	1.93E-06	1.2099E-03
520030.86	4259719.91	6943.07596	5.23477	0.07445	7.69295	0.07323	1.20E-03	1.23E-05	1.53E-07	1.81E-05	1.44E-07	1.2349E-03
519937.14	4258342.72	6933.04035	0.14107	1.00503	0.14433	0.9568	1.20E-03	3.31E-07	2.06E-06	3.39E-07	1.88E-06	1.2071E-03
519958.12	4258176.96	6930.01766	0.09983	1.26058	0.10221	1.18524	1.20E-03	2.34E-07	2.59E-06	2.40E-07	2.33E-06	1.2074E-03
519879.81	4258599.6	6920.93133	0.20772	0.53092	0.2214	0.51755	1.20E-03	4.88E-07	1.09E-06	5.20E-07	1.02E-06	1.2035E-03
519936.85	4258367.66	6908.22123	0.15133	1.00057	0.15508	0.95139	1.20E-03	3.55E-07	2.05E-06	3.64E-07	1.87E-06	1.2028E-03
520098.66	4257864.85	6906.06529	0.07543	16.70805	0.07608	17.80475	1.20E-03	1.77E-07	3.43E-05	1.79E-07	3.50E-05	1.2675E-03
520051.41	4257944.69	6904.34889	0.07938	7.71012	0.08265	5.69441	1.20E-03	1.86E-07	1.58E-05	1.94E-07	1.12E-05	1.2249E-03
519830.82	4258692.06	6903.48021	0.18282	0.36017	0.19176	0.35332	1.20E-03	4.29E-07	7.39E-07	4.50E-07	6.96E-07	1.1997E-03
519803.65	4258742.7	6902.42292	0.17102	0.2997	0.17717	0.29403	1.20E-03	4.02E-07	6.15E-07	4.16E-07	5.79E-07	1.1992E-03
519919.48	4258521.85	6896.436	0.21965	0.78275	0.23327	0.75082	1.20E-03	5.16E-07	1.61E-06	5.48E-07	1.48E-06	1.2003E-03
519929.36	4258492.72	6891.26245	0.21466	0.87826	0.22728	0.83788	1.20E-03	5.04E-07	1.80E-06	5.34E-07	1.65E-06	1.1997E-03
520020.96	4259719.93	6885.35314	3.77202	0.07384	4.8716	0.0727	1.19E-03	8.86E-06	1.51E-07	1.14E-05	1.43E-07	1.2148E-03
519889.73	4258580.16	6881.70142	0.21162	0.58216	0.22546	0.56492	1.19E-03	4.97E-07	1.19E-06	5.29E-07	1.11E-06	1.1969E-03
520061.27	4257924.73	6876.5578	0.07819	12.51659	0.08081	7.82316	1.19E-03	1.84E-07	2.57E-05	1.90E-07	1.54E-05	1.2342E-03
520109.07	4257845.4	6862.65779	0.07422	10.8825	0.07447	13.27905	1.19E-03	1.74E-07	2.23E-05	1.75E-07	2.61E-05	1.2392E-03
519959.01	4258166.61	6861.37852	0.09775	1.27097	0.10002	1.1937	1.19E-03	2.29E-07	2.61E-06	2.35E-07	2.35E-06	1.1955E-03
519936.58	4258305.7	6859.64722	0.12743	1.00253	0.13008	0.95456	1.19E-03	2.99E-07	2.06E-06	3.05E-07	1.88E-06	1.1943E-03
519937.4	4258414.86	6854.10334	0.17518	0.99536	0.1814	0.94396	1.19E-03	4.11E-07	2.04E-06	4.26E-07	1.86E-06	1.1935E-03
519937.08	4258439.9	6853.01603	0.18961	0.98139	0.19827	0.93084	1.19E-03	4.45E-07	2.01E-06	4.65E-07	1.83E-06	1.1934E-03
519932.92	4258474.27	6847.08039	0.20707	0.92151	0.21862	0.87712	1.19E-03	4.86E-07	1.89E-06	5.13E-07	1.73E-06	1.1922E-03
519899.65	4258560.73	6846.78683	0.21483	0.64028	0.22819	0.61891	1.19E-03	5.04E-07	1.31E-06	5.36E-07	1.22E-06	1.1911E-03
519792.08	4258762.84	6845.44117	0.16556	0.27833	0.17096	0.27316	1.19E-03	3.89E-07	5.71E-07	4.01E-07	5.38E-07	1.1892E-03
519909.57	4258541.29	6841.76415	0.21742	0.70612	0.23071	0.68036	1.19E-03	5.10E-07	1.45E-06	5.42E-07	1.34E-06	1.1905E-03
520030.87	4259729.91	6835.18141	4.69454	0.07355	5.81229	0.07234	1.19E-03	1.10E-05	1.51E-07	1.36E-05	1.42E-07	1.2105E-03
519824.46	4258700.84	6821.15903	0.17901	0.34547	0.18708	0.33912	1.18E-03	4.20E-07	7.09E-07	4.39E-07	6.68E-07	1.1853E-03
519935.2	4258316.25	6803.31048	0.13022	0.98557	0.13296	0.9395	1.18E-03	3.06E-07	2.02E-06	3.12E-07	1.85E-06	1.1845E-03
520020.97	4259729.93	6779.0976	3.50959	0.07296	4.24388	0.07183	1.18E-03	8.24E-06	1.50E-07	9.96E-06	1.41E-07	1.1943E-03
519818.44	4258710.45	6775.0508	0.17577	0.33203	0.18319	0.32595	1.18E-03	4.13E-07	6.81E-07	4.30E-07	6.42E-07	1.1773E-03
519857.12	4258636.77	6774.93955	0.19423	0.44035	0.2056	0.43199	1.18E-03	4.56E-07	9.03E-07	4.83E-07	8.50E-07	1.1778E-03
520051.45	4257934.69	6772.9714	0.07794	7.70002	0.08109	5.6744	1.17E-03	1.83E-07	1.58E-05	1.90E-07	1.12E-05	1.2021E-03
519796.98	4258750.66	6770.78106	0.16663	0.28816	0.1723	0.28281	1.17E-03	3.91E-07	5.91E-07	4.05E-07	5.57E-07	1.1763E-03
520098.69	4257854.85	6764.69323	0.0741	16.6903	0.0747	17.90184	1.17E-03	1.74E-07	3.42E-05	1.75E-07	3.52E-05	1.2431E-03
519847.12	4258655.32	6760.62979	0.18911	0.40751	0.19951	0.40034	1.17E-03	4.44E-07	8.36E-07	4.68E-07	7.88E-07	1.1751E-03
519929.32	4258483.02	6750.74658	0.20816	0.8837	0.21992	0.84298	1.17E-03	4.89E-07	1.81E-06	5.16E-07	1.66E-06	1.1754E-03
520061.3	4257914.73	6747.90029	0.0768	12.48265	0.07929	7.78197	1.17E-03	1.80E-07	2.56E-05	1.86E-07	1.53E-05	1.2117E-03
519837.12	4258673.87	6743.65715	0.18403	0.37851	0.19334	0.37204	1.17E-03	4.32E-07	7.76E-07	4.54E-07	7.32E-07	1.1721E-03
519933.52	4258351.5	6737.12968	0.14232	0.96742	0.14552	0.92209	1.17E-03	3.34E-07	1.98E-06	3.42E-07	1.82E-06	1.1730E-03
519947.21	4258201.44	6723.43418	0.1022	1.11549	0.10457	1.05584	1.17E-03	2.40E-07	2.29E-06	2.45E

519929.54	4258385.44	6468.69579	0.15406	0.92588	0.15807	0.88219	1.12E-03	3.62E-07	1.90E-06	3.71E-07	1.74E-06	1.1263E-03
519930.38	4258431.92	6456.49702	0.17815	0.91976	0.18567	0.87532	1.12E-03	4.18E-07	1.89E-06	4.36E-07	1.72E-06	1.1243E-03
519928.05	4258309.22	6456.39314	0.12435	0.91778	0.12669	0.8769	1.12E-03	2.92E-07	1.88E-06	2.97E-07	1.73E-06	1.1240E-03
520109.16	4257815.4	6446.81247	0.07045	10.87249	0.07059	13.21919	1.12E-03	1.65E-07	2.23E-05	1.66E-07	2.60E-05	1.1668E-03
519859.89	4258619.08	6437.83788	0.19035	0.45497	0.20162	0.4461	1.12E-03	4.47E-07	9.33E-07	4.73E-07	8.78E-07	1.1193E-03
519788.36	4258753.99	6427.32647	0.15901	0.27602	0.16407	0.27112	1.11E-03	3.73E-07	5.66E-07	3.85E-07	5.34E-07	1.1166E-03
519869.81	4258599.64	6413.80519	0.19428	0.49488	0.2064	0.48354	1.11E-03	4.56E-07	1.01E-06	4.85E-07	9.52E-07	1.1154E-03
519926.43	4258465.8	6410.55874	0.19373	0.86818	0.20373	0.82908	1.11E-03	4.55E-07	1.78E-06	4.78E-07	1.63E-06	1.1162E-03
519938.26	4258205.13	6408.20397	0.10027	1.01237	0.10229	0.96167	1.11E-03	2.35E-07	2.08E-06	2.40E-07	1.89E-06	1.1159E-03
519909.48	4258521.89	6392.2602	0.20527	0.7157	0.21709	0.68947	1.11E-03	4.82E-07	1.47E-06	5.10E-07	1.36E-06	1.1125E-03
519879.73	4258580.2	6386.59745	0.19782	0.54049	0.21004	0.52583	1.11E-03	4.64E-07	1.11E-06	4.93E-07	1.04E-06	1.1108E-03
519926.52	4258344.25	6385.20361	0.13537	0.90165	0.13807	0.86201	1.11E-03	3.18E-07	1.85E-06	3.24E-07	1.70E-06	1.1117E-03
520099.34	4257825.37	6383.98464	0.07045	16.22589	0.07092	17.80294	1.11E-03	1.65E-07	3.33E-05	1.66E-07	3.50E-05	1.1759E-03
519939.41	4258194.67	6376.04332	0.09827	1.02282	0.10031	0.97068	1.11E-03	2.31E-07	2.10E-06	2.35E-07	1.91E-06	1.1104E-03
520051.54	4257904.69	6375.94371	0.07374	7.67788	0.07667	5.49728	1.11E-03	1.73E-07	1.57E-05	1.80E-07	1.08E-05	1.1328E-03
519820.79	4258692	6374.99961	0.17151	0.34085	0.17958	0.33502	1.11E-03	4.03E-07	6.99E-07	4.22E-07	6.59E-07	1.1079E-03
519793.36	4258742.07	6363.03174	0.16022	0.28543	0.16552	0.28048	1.10E-03	3.76E-07	5.85E-07	3.89E-07	5.52E-07	1.1055E-03
519889.65	4258560.77	6360.81428	0.20075	0.59164	0.21241	0.57366	1.10E-03	4.71E-07	1.21E-06	4.99E-07	1.13E-06	1.1066E-03
519930.37	4258248.34	6360.26945	0.10806	0.93836	0.10984	0.8949	1.10E-03	2.54E-07	1.92E-06	2.58E-07	1.76E-06	1.1074E-03
519919.36	4258492.76	6359.25106	0.20109	0.79771	0.21211	0.76486	1.10E-03	4.72E-07	1.64E-06	4.98E-07	1.51E-06	1.1071E-03
519931.68	4258237.81	6358.54552	0.10588	0.95027	0.10767	0.90553	1.10E-03	2.49E-07	1.95E-06	2.53E-07	1.78E-06	1.1071E-03
519899.57	4258541.33	6351.19955	0.20312	0.64921	0.21464	0.6278	1.10E-03	4.77E-07	1.33E-06	5.04E-07	1.24E-06	1.1051E-03
519928.95	4258258.91	6350.60933	0.11025	0.92431	0.11204	0.88245	1.10E-03	2.59E-07	1.90E-06	2.63E-07	1.74E-06	1.1056E-03
520061.39	4257884.73	6348.45699	0.0727	12.51728	0.07501	7.53149	1.10E-03	1.71E-07	2.57E-05	1.76E-07	1.48E-05	1.1420E-03
519932.89	4258227.32	6346.47612	0.10373	0.95786	0.10553	0.91287	1.10E-03	2.44E-07	1.96E-06	2.48E-07	1.80E-06	1.1050E-03
519926.1	4258369.06	6339.5932	0.14481	0.89843	0.14803	0.8579	1.10E-03	3.40E-07	1.84E-06	3.48E-07	1.69E-06	1.1038E-03
519940.48	4258184.24	6337.14972	0.09631	1.03207	0.09834	0.97858	1.10E-03	2.26E-07	2.12E-06	2.31E-07	1.93E-06	1.1036E-03
519814.67	4258701.35	6331.80584	0.16853	0.32768	0.17574	0.32228	1.10E-03	3.96E-07	6.72E-07	4.13E-07	6.34E-07	1.1003E-03
519934.02	4258216.87	6326.86661	0.10164	0.96971	0.10349	0.92301	1.10E-03	2.39E-07	1.99E-06	2.43E-07	1.82E-06	1.1017E-03
520109.19	4257805.4	6320.84576	0.06922	10.86594	0.06937	13.30176	1.10E-03	1.63E-07	2.23E-05	1.63E-07	2.62E-05	1.1451E-03
519781.72	4258762.02	6314.98047	0.1551	0.26589	0.15975	0.26125	1.10E-03	3.64E-07	5.45E-07	3.75E-07	5.14E-07	1.0971E-03
519922.87	4258474.43	6312.0087	0.19472	0.83441	0.2049	0.79841	1.09E-03	4.57E-07	1.71E-06	4.81E-07	1.57E-06	1.0990E-03
519941.48	4258173.84	6292.4766	0.0944	1.04121	0.0964	0.98606	1.09E-03	2.22E-07	2.14E-06	2.26E-07	1.94E-06	1.0959E-03
519926.87	4258440.45	6288.57288	0.1795	0.88439	0.18757	0.84342	1.09E-03	4.21E-07	1.81E-06	4.40E-07	1.66E-06	1.0951E-03
519927.11	4258415.61	6280.25352	0.16654	0.89631	0.17251	0.85409	1.09E-03	3.91E-07	1.84E-06	4.05E-07	1.68E-06	1.0936E-03
519847.12	4258636.77	6268.8978	0.18204	0.41364	0.1923	0.40647	1.09E-03	4.27E-07	8.48E-07	4.51E-07	8.00E-07	1.0898E-03
519925.83	4258270.19	6259.78338	0.11198	0.895	0.11375	0.85175	1.09E-03	2.63E-07	1.84E-06	2.67E-07	1.68E-06	1.0898E-03
520099.37	4257815.37	6258.72695	0.06926	16.22535	0.06969	17.83727	1.09E-03	1.63E-07	3.33E-05	1.64E-07	3.51E-05	1.1543E-03
520051.57	4257894.69	6258.52668	0.07246	7.66659	0.0753	5.4807	1.09E-03	1.70E-07	1.77E-05	1.77E-07	1.08E-05	1.1124E-03
519808.35	4258710.24	6257.58902	0.16497	0.31504	0.17156	0.30987	1.09E-03	3.87E-07	6.46E-07	4.03E-07	6.10E-07	1.0874E-03
519925.89	4258394.32	6255.64156	0.15539	0.89121	0.15976	0.85005	1.09E-03	3.65E-07	1.83E-06	3.75E-07	1.67E-06	1.0893E-03
519837.12	4258655.32	6251.64521	0.17737	0.38393	0.18683	0.37777	1.08E-03	4.16E-07	7.87E-07	4.39E-07	7.44E-07	1.0867E-03
519924.46	4258280.74	6240.46558	0.11433	0.88497	0.11617	0.84639	1.08E-03	2.68E-07	1.82E-06	2.73E-07	1.67E-06	1.0864E-03
519827.12	4258673.87	6234.44855	0.17272	0.35755	0.18121	0.35202	1.08E-03	4.05E-07	7.33E-07	4.25E-07	6.93E-07	1.0836E-03
519923.06	4258328.41	6232.51941	0.12801	0.87227	0.13033	0.83513	1.08E-03	3.01E-07	1.79E-06	3.06E-07	1.64E-06	1.0850E-03
519919.32	4258483.06	6231.77005	0.19541	0.8023	0.2057	0.76917	1.08E-03	4.59E-07	1.65E-06	4.83E-07	1.51E-06	1.0850E-03
520061.42	4257874.73	6228.35784	0.07145	12.50541	0.07368	7.49474	1.08E-03	1.68E-07	2.56E-05	1.73E-07	1.48E-05	1.1210E-03
519909.44	4258512.2	6206.4964	0.19961	0.72021	0.21073	0.69366	1.08E-03	4.69E-07	1.48E-06	4.95E-07	1.37E-06	1.0803E-03
519922.97	4258291.34	6204.98188	0.11669	0.87439	0.11863	0.83638	1.08E-03	2.74E-07	1.79E-06	2.79E-07	1.65E-06	1.0802E-03
519775.06	4258770	6203.85644	0.15129	0.25632	0.15556	0.25191	1.08E-03	3.55E-07	5.26E-07	3.65E-07	4.96E-07	1.0778E-03
520109.23	4257795.4	6201.34808	0.0681	10.84914	0.0682	13.2989	1.08E-03	1.60E-07	2.23E-05	1.60E-07	2.62E-05	1.1243E-03
519922.95	4258352.94	6200.02403	0.13647	0.86999	0.13913	0.83257	1.08E-03	3.20E-07	1.78E-06	3.27E-07	1.64E-06	1.0794E-03
519859.85	4258609.38	6193.48644	0.18626	0.45865	0.19732	0.4495	1.07E-03	4.37E-07	9.41E-07	4.63E-07	8.85E-07	1.0770E-03
519802.96	4258717.25	6182.07643	0.16184	0.30497	0.16795	0.3	1.07E-03	3.80E-07	6.25E-07	3.94E-07	5.91E-07	1.0742E-03
519869.77	4258589.94	6172.34012	0.18982	0.4993	0.20148	0.48723	1.07E-03	4.46E-07	1.02E-06	4.72E-07	9.59E-07	1.0735E-03
519921.33	4258302	6152.27984	0.11904	0.86026	0.12103	0.82356	1.07E-03	2.79E-07	1.76E-06	2.84E-07	1.62E-06	1.0710E-03
519879.69	4258570.51	6149.92484	0.19295	0.54498	0.20426	0.52977	1.07E-03	4.53E-07	1.12E-06	4.80E-07	1.04E-06	1.0698E-03
519923.36	4258448.98	6143.09017	0.18072	0.85066	0.18919	0.81302	1.07E-03	4.24E-07	1.74E-06	4.44E-07	1.60E-06	1.0697E-03
520051.6	4257884.69	6140.59962	0.07121	7.65046	0.07397	5.4346	1.07E-03	1.67E-07	1.57E-05	1.74E-07	1.07E-05	1.0918E-03
519899.52	4258531.63	6140.45795	0.19765	0.65335	0.20856	0.63182	1.07E-03	4.64E-07	1.34E-06	4.90E-07	1.24E-06	1.0686E-03
520097.41	4257805.37	6137.702	0.06811	16.21707	0.0685	17.88632	1.06E-03	1.60E-07	3.33E-05	1.61E-07	3.52E-05	1.1133E-03
519922.68	4258377.85	6137.28598	0.14604	0.86655	0.14946	0.82809	1.06E-03	3.43E-07	1.78E-06	3.51E-07	1.63E-06	1.0686E-03
519889.61	4258551.07	6125.11874	0.19531	0.59543	0.20601	0.57751	1.06E-03	4.59E-07	1.22E-06	4.84E-07	1.14E-06	1.0657E-03
520061.45	4257864.73	6111.72111	0.07023	12.47987	0.07239	7.45351	1.06E-03	1.65E-07	2.56E-05	1.70E-07	1.47E-05	1.1007E-03
519929.31	4258208.83	6106.07691	0.09835	0.91936	0.09995	0.87662	1.06E-03	2.31E-07	1.89E-06	2.35E-07	1.73E-06	1.0631E-03
519923.64	4258424.05	6099.46161	0.16782	0.86341	0.17438	0.82414	1.06E-03	3.94E-07	1.77E-06	4.09E-07	1.62E-06	1.0621E-03
519930.53	4258198.34	6082.58285	0.09644	0.92771	0.09808	0.88392	1.05E-03	2.26E-07	1.90E-06	2.30E-07	1.74E-06	1.0591E-03
519796.37	4258725.4	6082.51532	0.15801	0.29338	0.16355	0.28867	1.05E-03	3.71E-07	6.02E-07	3.84E-07	5.68E-07	1.0569E-03
520109.26	4257785.4	6077.96375	0.06696	10.87062	0.06705	13.30878	1.05E-03	1.57E-07	2.23E-05	1.57E-07	2.62E-05	1.1030E-03
519919.52	4258337.01	6066.22065	0.12901	0.84283	0.13127	0.80772	1.05E-03	3.03E-07	1.73E-06	3.08E-07	1.59E-06	1.0560E-03
519931.66	4258187.88	6056.91333	0.09458	0.93733	0.09627	0.89218	1.05E-03	2.22E-07	1.92E-06	2.26E-07	1.76E-06	1.0547E-03
519922.23	4258403.21	6051.37079	0.15668	0.85799	0.16157	0.81936	1.05E-03	3.68E-07	1.76E-06	3.79E-07	1.61E-06	1.0537E-03
519922.87	4258241.44	6040.50516	0.1037	0.87068	0.10516	0.8317	1.05E-03	2.43E-07	1.79E-06	2.47E-07	1.64E-06	1.0516E-03
519924.15	4258230.93	6039.33421	0.10168	0.87755	0.10311	0.83848	1.05E-03	2.39E-07	1.80E-06	2.42E-07	1.65E-06	1.0514E-03
519909.4	4258502.5	6039.26254	0.1941	0.72435	0.20447	0.69756	1.05E-03	4.56E-07	1.49E-06	4.80E-07	1.37E-06	1.0513E-03
519784.64	4258745.14	6036.21288	0.15292	0.27329	0.15761	0.2688	1.05E-03	3.59E-07	5.60E-07	3.70E-07	5.29E-07	1.0488E-03
519921.49	4258252	6030.97077	0.10575	0.85773	0.10721	0.82055	1.05E-03	2.48E-07	1.76E-06	2.52E-07	1.62E-06	1.0499E-03
519925.33	4258220.45	6029.43099	0.09969	0.88582	0.10113	0.84588	1.05E-03	2.34E-07	1.82E-06	2.37E-07	1.67E-06	1.0497E-03
519837.12	4258646.05	6029.2572	0.17418	0.38664	0.18361	0.38049	1.05E-03	4.09E-07	7.93E-07	4.31E-07	7.49E-07	1.0481E-03
520051.63	4257874.69	6026.30812	0.06999	7.62966	0.07267	5.38786	1.05E-03	1.64E-07	1.56E-05	1.71E-07	1.06E-05	1.0718E-03
519919.85	4258457.51	6020.80372	0.18179	0.81863	0.19051	0.78405	1.04E-03	4.27E-07	1.68E-06	4.47E-07	1.54E-06	1.0484E-03
520099.44	4257795.37	6019.5978	0.06699	16.21919	0.06735	17.85708	1.04E-03	1.57E-07	3.33E-05	1.58E-07	3.52E-05	1.1128E-03
519932.72	4258177.46	6019.34744	0.09274	0.94332	0.09444	0.89709	1.04E-03	2.18E-07	1.93E-06	2.22E-07	1.77E-06	1.0482E-03
519919.37	4258361.63	6012.27523	0.13754	0.83982	0.14026	0.8044	1.04E-03	3.23E-07	1.72E-06	3.29E-07	1.58E-06	1.0468E-03
520172.84	4257692.52	6011.40844	0.06294	3.36277	0.06206	2.90458	1.04E-03	1.48E-07	6.90E-06	1.46E-07	5.72E-06	1.0556E-03
519827.12	4258664.6	6010.33995	0.1697	0.35994	0.1783	0.35456	1.04E-03	3.98E-07	7.38E-07	4.19E-07	6.98E-07	1.0447E-03
519919.99	4258262.61	5999.32658	0.10773	0.84301	0.10923	0.8075	1.04E-03	2.53E-07	1.73E-06	2.56E-07	1.59E-06	1.0444E-03
520061.48	4257854.73	5998.70329	0.06905	12.44024	0.07114	7.41443	1.04E-03	1.62E-07	2.55E-05	1.67E-07	1.46E-05	1.0809E-03
519817.12	4258683.15	5994.48074	0.16528	0.33617	0.17291	0.3312	1.04E-03	3.88E-07	6.89E-07	4.06E-07	6.52E-07	1.0439E-03
519789.75	4258733.47	5982.55073	0.15424	0.28242	0.15926	0.27794	1.04E-03	3.62E-07	5.79E-07	3.74E-07	5.47E-07	1.0393E-03
519849.89	4258619.12	5980.35301	0.17863	0.42661	0.18874	0.41908	1.04E-03	4.19E-07	8.75E-07	4.43E-07	8.25E-07	1.0398E-03
519859.81	4258599.68	5968.33217	0.18224	0.4624	0.19301	0.4528	1.04E-03	4.28E-07	9.48E-07	4.53E-07	8.91E-07	1.0379E-03
520109.29	4257775.4	5954.35152	0.06593	10.9032	12.95111	1.03E-03	1.55E-07	2.24E-05	1.55E-07	2.55E-05	1.08096-03	
519899.48	4258521.94	5950.21669	0.19241	0.65734	0.20274	0.63562	1.03E-03	4.52E-07	1.35E-06	4.76E-07	1.25E-06	1.0356E-03
519869.73	4258580.25	5950.03427	0.18542	0.50348	0.19638	0.49078	1.03E-03	4.35E-07	1.03E-06	4.61E-07	9.66E-07	1.0349E-03
519919.07	4258386.63	5938.90916	0.14722	0.83548	0.15097	0.79925	1.03E-03	3.46E-07	1.71E-06	3.54E-07	1.57E-06	1.0341E-03
519778.03	4258753.24	5938.20466	0.14928	0.26345	0.15359	0.25914	1.03E-03	3.50E-07	5.40E-07	3.61E-07	5.10E-07	1.0317E-03
519920.16	4258432.49	5936.40918	0.16902	0.8316	0.17605	0.79543	1.03E-03	3.97E-07	1.71E-06	4.13E-07	1.57E-06	1.0337E-03
519879.65	4258560.81	5932.04483	0.18818	0.5489	0.19858	0.53349	1.03E-03	4.42E-07	1.13E-06	4.66E-07	1.05E-06	1.0320E-03
519916.01	4258321.27	5926.95631	0.12223	0.81568	0.12418	0.78263	1.03E-03	2.87E-07	1.67E-06	2.92E-07	1.54E-06	1.0318E-03
519916.34	4258466.04	5921.05148	0.18271	0.78843	0.19159	0.7565	1.03E-03	4.29E-07	1.62E-06	4.50E-07	1.49E-06	1.0310E-03
520051.66	4257864.69	5918.74349	0.06883	7.67149	0.07143	5.36554	1.03E-03	1.62E-07	1.56E-05	1.68E-07	1.06E-05	1.0531E-03
519917.18	4258273.76	5917.48786	0.10942	0.8203	0.11094	0.7866	1.03E-03	2.57E-07	1.68E-06	2.60E-07	1.55E-06	1.0301E-03
519810.89	4258692.25	5916.15397	0.16147	0.32317	0.16882	0.31814	1.03E-03	3.79E-07	6.63E-07	3.96E-07	6.26E-07	1.0282E-03
519889.57	4258541.37	5913.69721	0.19017	0.59905	0.20018	0.58117	1.03E-03	4.46E-07	1.23E-06	4.70E-07	1.14E-06	1.0290E-03
520099.47	4257785.37	5904.31568	0.06589	16.22502	0.06622	17.71991	1.02E-03	1.55E-07	3.33E-05	1.55E-07	3.49E-05	1.0925E-03
519915.74	4258284.33	5898.93965	0.11172	0.81392	0.11333	0.78049	1.02E-03	2.62E-07	1.67E-06	2.66E-07	1.54E-06	1.0269E-03
519909.36	4258492.8	5894.34839	0.18884	0.72826	0.1985	0.70127	1.02E-03	4.43E-07	1.49E-06	4.66E-07	1.38E-06	1.0261E-03
519915.98	4258345.62	5892.75822	0.12996	0.81424	0.1322	0.78113	1.02E-03	3.05E-07	1.67E-06	3.10E-07	1.54E-06	1.0259E-03
520172.87	4257682.52	5888.27556	0.06192	3.40753	0.06109	2.736	1.02E-03	1.45E-07	6.99E-06	1.43E-07	5.39E-06	1.0340E-03
520060.13	4257845.25	5868.54183	0.06778	11.39669	0.06986	7.00797	1.02E-03	1.59E-07	2.34E-05	1.64E-07	1.38E-05	1.0554E-03
520163.05	4257692.49	5864.90075	0.06218	4.37655	0.06146	3.63197	1.02E-03	1.46E-07	8.98E-06	1.44E-07	7.15E-06	1.0337E-03
519804.61	4258701.21	5862.46581	0.15848	0.31091	0.165	0.30629	1.02E-03	3.72E-07	6.38E-07	3.87E-07	6.03E-07	1.0188E-03
519918.57	4258412.1	5859.73106	0.15793	0.82556	0.16334	0.78985	1.02E-03	3.71E-07	1.69E-06	3.83E-07	1.55E-06	1.0203E-03
519914.17	4258294.97	5851.67177	0.11392	0.80369	0.1156	0.77087	1.01E-03	2.67E-07	1.65E-06	2.71E-07	1.52E-06	1.0187E-03
520109.32	4257765.4	5846.53238	0.0648	10.93101	0.06485	13.28524	1.01E-03	1.52E-07	2.24E-05	1.52E-07	2.62E-05	1.0629E-03
519912.83	4258474.57	5841.56923	0.18339	0.75952	0.19234	0.73007	1.01E-03	4.31E-07	1.56E-06	4.52E-07	1.44E-06	1.0171E-03
519771.39	4258761.27	5841.19614	0.14573	0.25408	0.14966	0.24997	1.01E-03	3.42E-07	5.21E-07	3.51E-07	4.92E-07	1.0148E-03
519915.8	4258370.31	5826.47261	0.13862	0.8113	0.14152	0.77764	1.01E-03	3.25E-07	1.66E-06	3.32E-07	1.53E-06	1.0144E-03
519837.12	4258636.77	5822.66797	0.17106	0.38929	0.18035	0.38314	1.01E-03	4.02E-07	7.98E-07	4.23E-07	7.54E-07	1.0123E-03
519920.36	4258212.52	5816.32834	0.09644	0.8411	0.09766	0.80397	1.01E-03	2.26E-07	1.73E-06	2.29E-07	1.58E-06	1.0126E-03
520051.7	4257854.7	5813.08554	0.0677	7.57142	0.07021	5.33075	1.01E-03	1.59E-07	1.55E-05	1.65E-07	1.05E-05	1.0346E-03
519799.29	4258708.54	5806.0431	0.15573	0.30112	0.16171	0.29671	1.01E-03	3.66E-07	6.18E-07	3.80E-07	5.84E-07	1.0090E-03
519921.64	4258202	5804.23899	0.09463	0.84922	0.09589	0.81114	1.01E-03	2.22E-07	1.74E-06	2.25E-07	1.60E-06	1.0105E-03
519827.12	4258655.32	5801.31106	0.16677	0.36234	0.17541	0.35702	1.01E-03	3.92E-07	7.43E-07	4.12E-07	7.03E-07	1.0085E-03
519916.69	4258440.94	5793.48501	0.17013	0.80112	0.17749	0.768	1.00E-03	3.99E-07	1.64E-06	4.17E-07	1.51E-06	1.0088E-03
520099.5	4257775.37	5792.23342	0.06483	16.23586	0.06513	17.52899	1.00E-03	1.52E-07	3.33E-05	1.53E-07	3.45E-05	1.0727E-03
519922.84	4258191.52	5784.94191	0.09285	0.85652	0.09415	0.81746	1.00E-03	2.18E-07	1.76E-06	2.21E-07	1.61E-06	1.0072E-03
519817.12	4258673.87	5782.55004	0.16249	0.33827	0.17026	0.33353	1.00E-03	3.81E-07	6.94E-07	4.00E-07	6.57E-07	1.0051E-03
519899.44	4258512.24	5779.73895	0.18738	0.66117	0.19715	0.63919	1.00E-03	4.40E-07	1.36E-06	4.63E-07	1.26E-06	1.0060E-03
519909.32	4258483.1	5776.0431	0.18388	0.73229	0.19294	0.70502	1.00E-03	4.32E-07	1.50E-06	4.53E-07	1.39E-06	1.0056E-03
519912.5	4258329.8	5771.00602	0.12311	0.78905	0.125	0.75784	1.00E-03	2.89E-07	1.62E-06	2.93E-07	1.49E-06	1.0046E-03
519849.85	4258609.42	5769.93113	0.17499	0.42972	0.18487	0.42202	1.00E-03	4.11E-07	8.81E-07	4.34E-07	8.31E-07	1.0033E-03
519923.96	4258181.07	5763.12141	0.09112	0.86451	0.09248	0.82426	1.00E-03	2.14E-07	1.77E-06	2.17E-07	1.62E-06	1.0034E-03
520060.16	4257835.25	5762.08946	0.06667	11.34629	0.06868	6.9518	9.99E-04	1.57E-07	2.33E-05	1.61E-07	1.37E-05	1.0367E-03
519859.77	4258589.99	5758.54202	0.17824	0.46623	0.18863	0.456	9.99E-04	4.18E-07	9.56E-07	4.43E-07	8.98E-07	1.0015E-03
519915.46	4258395.41	5747.79105	0.14837	0.80575	0.15257	0.77174	9.98E-04	3.48E-07	1.65E-06	3.58E-07	1.52E-06	1.0008E-03
520163.08	4257682.49	5746.96348	0.06118	4.6188	0.0605	3.41863	9.97E-04	1.44E-07	9.47E-06	1.42E-07	6.73E-06	1.0133E-03
519915.4	4258234.54	5746.74097	0.09964	0.80835	0.1008	0.77367	9.97E-04	2.34E-07	1.66E-06	2.37E-07	1.52E-06	1.0004E-03
519916.65	4258224.04	5746.31655	0.09776	0.81421	0.09888	0.77919	9.97E-04	2.30E-07	1.67E-06	2.32E-07	1.53E-06	1.0000E-03
520109.35	4257755.4	5743.41427	0.06381	10.96995	0.06381	13.33335	9.96E-04	1.50E-07	2.25E-05	1.50E-07	2.62E-05	1.0452E-03
519869.69	4258570.55	5742.85232	0.18107	0.50732	0.19119	0.49418	9.96E-04	4.25E-07	1.04E-06	4.49E-07	9.73E-07	9.9896E-04
519914.06	4258245.08	5737.96596	0.10155	0.79924	0.10275	0.76557	9.95E-04	2.38E-07	1.64E-06	2.41E-07	1.51E-06	9.9885E-04
519879.61	4258551.11	5731.71636	0.18354	0.55239	0.19319	0.53697	9.94E-04	4.31E-07	1.13E-06	4.54E-07	1.06E-06	9.9725E-04
519889.52	4258531.68	5725.39543	0.18533	0.60255	0.19484	0.58462	9.93E-04	4.35E-07	1.24E-06	4.57E-07	1.15E-06	9.9632E-04
519912.44	4258354.23	5721.54258	0.13095	0.78775	0.13326	0.75618	9.92E-04	3.07E-07	1.62E-06	3.13E-07	1.49E-06	9.9610E-04
519792.73	4258716.75	5716.97495	0.15213	0.28986	0.15755	0.28564	9.92E-04	3.57E-07	5.94E-07	3.70E-07	5.62E-07	9.9347E-04
519912.61	4258255.67	5712.31185	0.10342	0.78621	0.10466	0.75424	9.91E-04	2.43E-07	1.61E-06	2.46E-07	1.48E-06

520050.4	4257825.22	5490.44184	0.06434	7.04157	0.06671	4.95263	9.52E-04	1.51E-07	1.44E-05	1.57E-07	9.75E-06	9.7679E-04
519899.36	4258492.84	5488.95467	0.17782	0.66805	0.18639	0.64563	9.52E-04	4.17E-07	1.37E-06	4.38E-07	1.27E-06	9.5553E-04
519905.14	4258323.44	5486.45789	0.11775	0.73813	0.11932	0.71024	9.52E-04	2.76E-07	1.51E-06	2.80E-07	1.40E-06	9.5507E-04
520099.59	4257745.37	5479.06295	0.06182	16.34475	0.06204	17.56877	9.50E-04	1.45E-07	3.35E-05	1.46E-07	3.46E-05	1.0187E-03
519907.96	4258227.62	5476.53414	0.09583	0.75369	0.09676	0.72207	9.50E-04	2.25E-07	1.55E-06	2.27E-07	1.42E-06	9.5330E-04
519906.65	4258238.15	5467.9205	0.09761	0.74568	0.09859	0.71509	9.48E-04	2.29E-07	1.53E-06	2.31E-07	1.41E-06	9.5178E-04
519908.65	4258387.69	5460.97686	0.14068	0.75698	0.1443	0.72712	9.47E-04	3.30E-07	1.55E-06	3.39E-07	1.43E-06	9.5083E-04
520060.25	4257805.25	5459.3937	0.06352	11.16845	0.06534	6.73218	9.47E-04	1.49E-07	2.29E-05	1.53E-07	1.33E-05	9.8337E-04
519795.63	4258699.83	5459.23628	0.14995	0.29719	0.15596	0.2932	9.47E-04	3.52E-07	6.10E-07	3.66E-07	5.77E-07	9.4878E-04
520170.95	4257642.88	5453.89353	0.05827	2.89536	0.0575	2.31914	9.46E-04	1.37E-07	5.94E-06	1.35E-07	4.57E-06	9.5673E-04
520141.21	4257683.56	5452.50819	0.05962	11.84626	0.05918	6.82771	9.46E-04	1.40E-07	2.43E-05	1.39E-07	1.34E-05	9.8373E-04
519905.25	4258248.72	5448.6237	0.09939	0.73499	0.1004	0.70589	9.45E-04	2.33E-07	1.51E-06	2.36E-07	1.39E-06	9.4840E-04
519905.48	4258346.86	5444.62937	0.12678	0.73862	0.12671	0.71569	9.44E-04	2.93E-07	1.51E-06	2.97E-07	1.40E-06	9.4785E-04
520131.41	4257694.33	5431.5384	0.05987	10.61099	0.0595	10.11863	9.42E-04	1.41E-07	2.18E-05	1.40E-07	1.99E-05	9.8404E-04
520109.44	4257725.4	5430.28869	0.06087	11.5751	0.06083	13.75119	9.42E-04	1.43E-07	2.37E-05	1.43E-07	2.71E-05	9.9295E-04
519902.8	4258474.7	5428.78609	0.17317	0.6952	0.18115	0.67071	9.42E-04	4.07E-07	1.43E-06	4.25E-07	1.32E-06	9.4518E-04
519827.12	4258636.77	5427.08861	0.16113	0.36701	0.16955	0.36173	9.41E-04	3.78E-07	7.53E-07	3.98E-07	7.12E-07	9.4354E-04
519903.72	4258259.33	5407.32299	0.10106	0.72252	0.10212	0.69482	9.38E-04	2.37E-07	1.48E-06	2.40E-07	1.37E-06	9.4120E-04
519889.44	4258512.28	5406.55235	0.17644	0.60957	0.18513	0.59116	9.38E-04	4.14E-07	1.25E-06	4.35E-07	1.16E-06	9.4100E-04
519817.12	4258655.32	5401.68744	0.15719	0.34249	0.16506	0.33791	9.37E-04	3.69E-07	7.02E-07	3.88E-07	6.65E-07	9.3902E-04
520050.43	4257815.22	5394.57826	0.06332	6.99578	0.06563	4.88816	9.36E-04	1.49E-07	1.43E-05	1.54E-07	9.62E-06	9.5994E-04
519907.6	4258438.76	5393.22521	0.16112	0.73734	0.16772	0.70963	9.35E-04	3.78E-07	1.51E-06	3.94E-07	1.40E-06	9.3911E-04
519839.85	4258609.46	5391.60087	0.16478	0.40352	0.17369	0.39697	9.35E-04	3.87E-07	8.28E-07	4.08E-07	7.81E-07	9.3755E-04
519908.23	4258412.97	5389.24585	0.15039	0.74848	0.15552	0.71958	9.35E-04	3.53E-07	1.54E-06	3.65E-07	1.42E-06	9.3841E-04
519849.77	4258590.03	5388.73294	0.16776	0.43642	0.17709	0.42767	9.35E-04	3.94E-07	8.95E-07	4.16E-07	8.42E-07	9.3720E-04
519789.09	4258708.1	5382.79455	0.14668	0.28618	0.15204	0.28245	9.34E-04	3.44E-07	5.87E-07	3.57E-07	5.56E-07	9.3547E-04
520099.62	4257735.37	5381.43297	0.06088	16.44561	0.06107	17.75572	9.33E-04	1.43E-07	3.37E-05	1.43E-07	3.50E-05	1.0024E-03
519899.32	4258483.15	5380.60232	0.17351	0.6717	0.18158	0.64894	9.33E-04	4.07E-07	1.38E-06	4.26E-07	1.28E-06	9.3673E-04
519859.69	4258570.59	5380.39528	0.17038	0.47323	0.17942	0.46202	9.33E-04	4.00E-07	9.71E-07	4.21E-07	9.09E-07	9.3591E-04
519807.12	4258673.87	5380.0187	0.15322	0.32049	0.16032	0.31641	9.33E-04	3.60E-07	6.57E-07	3.76E-07	6.23E-07	9.3516E-04
519901.75	4258307.4	5379.89848	0.11194	0.71632	0.11327	0.6897	9.33E-04	2.63E-07	1.47E-06	2.66E-07	1.36E-06	9.3647E-04
519879.52	4258531.72	5376.33212	0.17473	0.55848	0.18332	0.54315	9.33E-04	4.10E-07	1.15E-06	4.30E-07	1.07E-06	9.3556E-04
519905.35	4258371.44	5376.26146	0.13286	0.73739	0.13564	0.70891	9.32E-04	3.12E-07	1.51E-06	3.18E-07	1.40E-06	9.3603E-04
519869.61	4258551.15	5372.27507	0.17265	0.51372	0.18131	0.50042	9.32E-04	4.05E-07	1.05E-06	4.26E-07	9.85E-07	9.3467E-04
520060.28	4257795.25	5364.17896	0.06253	11.09676	0.06429	6.64288	9.30E-04	1.47E-07	2.28E-05	1.51E-07	1.31E-05	9.6653E-04
519902.07	4258270	5357.1414	0.10269	0.7099	0.10377	0.68331	9.29E-04	2.41E-07	1.46E-06	2.44E-07	1.35E-06	9.3246E-04
520170.99	4257632.88	5354.13037	0.05741	2.76676	0.05666	2.19976	9.29E-04	1.35E-07	5.67E-06	1.33E-07	4.33E-06	9.3892E-04
519777.19	4258727.45	5333.2605	0.14186	0.26709	0.1462	0.2635	9.25E-04	3.33E-07	5.48E-07	3.43E-07	5.19E-07	9.2677E-04
520109.48	4257715.4	5328.55012	0.05992	12.08479	0.05987	13.99482	9.24E-04	1.41E-07	2.48E-05	1.41E-07	2.75E-05	9.7683E-04
520161.17	4257642.85	5327.99353	0.0576	3.98627	0.05694	2.83425	9.24E-04	1.35E-07	8.18E-06	1.34E-07	5.58E-06	9.3814E-04
520131.44	4257684.33	5327.58768	0.05893	14.70756	0.05858	10.42492	9.24E-04	1.38E-07	3.02E-05	1.38E-07	2.05E-05	9.7501E-04
519901.48	4258332.33	5325.45035	0.11852	0.71344	0.12008	0.68723	9.24E-04	2.78E-07	1.46E-06	2.82E-07	1.35E-06	9.2705E-04
519899.88	4258280.9	5316.40564	0.10469	0.70308	0.10582	0.67693	9.22E-04	2.46E-07	1.44E-06	2.48E-07	1.33E-06	9.2538E-04
519782.52	4258716.28	5302.61057	0.14336	0.2758	0.14819	0.27222	9.20E-04	3.37E-07	5.66E-07	3.48E-07	5.36E-07	9.2150E-04
520050.46	4257805.22	5300.87792	0.06233	6.94488	0.06457	4.81615	9.19E-04	1.46E-07	1.42E-05	1.52E-07	9.48E-06	9.4343E-04
520121.62	4257694.29	5295.39672	0.05906	12.38549	0.0588	13.06101	9.18E-04	1.39E-07	2.54E-05	1.38E-07	2.57E-05	9.6985E-04
519903.88	4258209.33	5287.07896	0.09106	0.72035	0.09176	0.69047	9.17E-04	2.14E-07	1.48E-06	2.15E-07	1.36E-06	9.2029E-04
519905.07	4258396.38	5286.99712	0.14164	0.73102	0.1457	0.70323	9.17E-04	3.33E-07	1.50E-06	3.42E-07	1.38E-06	9.2056E-04
520099.66	4257725.37	5285.43556	0.05995	16.61795	0.06012	17.73963	9.17E-04	1.41E-07	3.41E-05	1.41E-07	3.49E-05	9.8602E-04
519905.2	4258198.8	5282.65749	0.08945	0.72597	0.09013	0.69535	9.16E-04	2.10E-07	1.49E-06	2.12E-07	1.37E-06	9.1953E-04
519902.47	4258219.9	5281.51115	0.09268	0.71386	0.09342	0.68476	9.16E-04	2.18E-07	1.46E-06	2.19E-07	1.35E-06	9.1930E-04
519901.97	4258355.39	5281.40031	0.12562	0.71535	0.12772	0.68878	9.16E-04	2.95E-07	1.47E-06	3.00E-07	1.36E-06	9.1945E-04
519903.95	4258447.64	5279.8542	0.16198	0.71106	0.16875	0.68549	9.16E-04	3.80E-07	1.46E-06	3.96E-07	1.35E-06	9.1935E-04
519906.43	4258188.31	5272.35569	0.08787	0.73118	0.08856	0.6998	9.14E-04	2.06E-07	1.50E-06	2.08E-07	1.38E-06	9.1776E-04
520060.31	4257785.25	5271.55166	0.06156	11.01676	0.06327	6.54327	9.14E-04	1.45E-07	2.26E-05	1.49E-07	1.29E-05	9.5009E-04
519770.63	4258735.67	5258.43585	0.13871	0.25774	0.14259	0.25427	9.12E-04	3.26E-07	5.29E-07	3.35E-07	5.01E-07	9.1374E-04
519889.4	4258502.58	5257.38938	0.17198	0.6124	0.18014	0.59384	9.12E-04	4.04E-07	1.26E-06	4.23E-07	1.17E-06	9.1512E-04
519904.62	4258421.76	5247.38309	0.15149	0.723	0.15903	0.69608	9.10E-04	3.56E-07	1.48E-06	3.69E-07	1.37E-06	9.1171E-04
519898.13	4258316.2	5237.35146	0.11268	0.69375	0.11398	0.66857	9.08E-04	2.65E-07	1.42E-06	2.68E-07	1.32E-06	9.1167E-04
520109.51	4257705.4	5236.34251	0.05904	12.97293	0.05896	14.90548	9.08E-04	1.39E-07	2.66E-05	1.38E-07	2.93E-05	9.6444E-04
520161.2	4257632.85	5231.76963	0.05676	3.6372	0.05611	2.63495	9.07E-04	1.33E-07	7.46E-06	1.32E-07	5.19E-06	9.2034E-04
519817.12	4258646.05	5231.69251	0.15462	0.34456	0.16242	0.34	9.07E-04	3.63E-07	7.07E-07	3.81E-07	6.69E-07	9.0953E-04
519839.81	4258599.77	5219.38762	0.1615	0.40646	0.17025	0.39947	9.05E-04	3.79E-07	8.34E-07	4.00E-07	7.86E-07	9.0768E-04
519899.28	4258231.21	5219.25772	0.09392	0.69757	0.09472	0.6694	9.05E-04	2.20E-07	1.43E-06	2.22E-07	1.32E-06	9.0848E-04
519879.48	4258522.02	5218.84974	0.17053	0.56125	0.1787	0.54587	9.05E-04	4.00E-07	1.15E-06	4.20E-07	1.07E-06	9.0823E-04
519849.73	4258580.33	5216.80181	0.1642	0.43963	0.17298	0.43035	9.05E-04	3.85E-07	9.02E-07	4.06E-07	8.47E-07	9.0737E-04
519829.89	4258619.2	5214.18465	0.15845	0.37735	0.16672	0.37187	9.04E-04	3.72E-07	7.74E-07	3.91E-07	7.32E-07	9.0665E-04
520050.49	4257795.22	5210.6365	0.06137	6.8861	0.06355	4.73976	9.04E-04	1.44E-07	1.41E-05	1.49E-07	9.33E-06	9.2751E-04
519859.65	4258560.89	5209.82374	0.16655	0.47617	0.17487	0.46482	9.04E-04	3.91E-07	9.77E-07	4.11E-07	9.15E-07	9.0631E-04
519901.81	4258380.04	5206.66578	0.13377	0.71334	0.13692	0.68657	9.04E-04	3.14E-07	1.46E-06	3.21E-07	1.35E-06	9.0652E-04
519869.57	4258541.46	5206.19266	0.16864	0.51643	0.17679	0.50322	9.03E-04	3.96E-07	1.06E-06	4.15E-07	9.91E-07	9.0585E-04
519807.12	4258664.6	5205.83624	0.1508	0.32236	0.15799	0.31836	9.03E-04	3.54E-07	6.61E-07	3.71E-07	6.27E-07	9.0494E-04
519897.91	4258241.76	5202.42018	0.09559	0.68793	0.09642	0.66132	9.02E-04	2.24E-07	1.41E-06	2.26E-07	1.30E-06	9.0550E-04
520121.65	4257684.29	5196.98659	0.05816	16.62935	0.0579	13.67336	9.01E-04	1.37E-07	3.41E-05	1.36E-07	2.69E-05	9.6260E-04
520099.69	4257715.37	5192.78668	0.05906	16.93762	0.0592	17.94943	9.01E-04	1.39E-07	3.47E-05	1.39E-07	3.53E-05	9.7101E-04
520149.08	4257643.96	5186.7296	0.05686	6.74462	0.05631	3.82387	9.00E-04	1.33E-07	1.38E-05	1.32E-07	7.53E-06	9.2124E-04
519900.29	4258456.53	5186.21635	0.16266	0.68597	0.16953	0.66231	9.00E-04	3.82E-07	1.41E-06	3.98E-07	1.30E-06	9.0302E-04
519797.12	4258683.15	5185.51777	0.14698	0.30242	0.15338	0.29873	8.99E-04	3.45E-07	6.20E-07	3.60E-07	5.88E-07	9.0132E-04
519764.04	4258743.81	5183.19988	0.1356	0.24886	0.13908	0.2455	8.99E-04	3.18E-07	5.10E-07	3.27E-07	4.83E-07	9.0064E-04
520060.34	4257775.25	5181.43474	0.06061	10.92579	0.06228	6.43071	8.99E-04	1.42E-07	2.24E-05	1.46E-07	1.27E-05	9.3405E-04
519896.43	4258252.35	5172.4779	0.09725	0.67911	0.09812	0.65358	8.97E-04	2.28E-07	1.39E-06	2.30E-07	1.29E-06	9.0028E-04
519897.82	4258341.21	5163.5989	0.11928	0.69013	0.12093	0.66526	8.96E-04	2.80E-07	1.42E-06	2.84E-07	1.31E-06	8.9889E-04
520109.54	4257695.4	5143.64936	0.05816	14.65391	0.05807	15.99828	8.92E-04	1.37E-07	3.01E-05	1.36E-07	3.15E-05	9.5396E-04
519894.71	4258300.26	5141.5642	0.10732	0.67375	0.10841	0.64951	8.92E-04	2.52E-07	1.38E-06	2.55E-07	1.28E-06	8.9495E-04
519901.5	4258405.07	5132.13555	0.14265	0.70694	0.14716	0.68099	8.90E-04	3.35E-07	1.45E-06	3.45E-07	1.34E-06	8.9362E-04
519898.46	4258363.92	5131.93006	0.12661	0.69488	0.12901	0.66924	8.90E-04	2.97E-07	1.43E-06	3.03E-07	1.32E-06	8.9345E-04
519889.36	4258492.89	5126.46323	0.16774	0.61509	0.17537	0.59637	8.89E-04	3.94E-07	1.26E-06	4.12E-07	1.17E-06	8.9240E-04
519894.84	4258263	5124.80306	0.0988	0.66776	0.09969	0.64342	8.89E-04	2.32E-07	1.37E-06	2.34E-07	1.27E-06	8.9198E-04
520050.52	4257785.22	5123.30913	0.06044	6.81865	0.06256	4.65281	8.89E-04	1.42E-07	1.40E-05	1.47E-07	9.16E-06	9.1205E-04
519896.63	4258465.41	5116.01031	0.16327	0.66249	0.17027	0.64043	8.87E-04	3.83E-07	1.36E-06	4.00E-07	1.26E-06	8.9075E-04
519901	4258430.54	5112.65063	0.15235	0.69778	0.15815	0.67303	8.87E-04	3.58E-07	1.43E-06	3.71E-07	1.32E-06	8.9025E-04
520099.72	4257705.37	5101.71724	0.05818	17.5361	0.0583	18.04929	8.85E-04	1.37E-07	3.60E-05	1.37E-07	3.55E-05	9.5664E-04
520149.12	4257633.96	5095.83945	0.05604	5.26393	0.05549	3.38387	8.84E-04	1.32E-07	1.08E-05	1.30E-07	6.66E-06	9.0157E-04
520060.38	4257765.25	5093.01715	0.05971	10.83271	0.06131	6.30497	8.83E-04	1.40E-07	2.22E-05	1.44E-07	1.24E-05	9.1827E-04
519894.51	4258325.01	5090.75504	0.11341	0.67209	0.11472	0.64824	8.83E-04	2.66E-07	1.38E-06	2.69E-07	1.28E-06	8.8616E-04
519893.11	4258273.7	5082.02602	0.10055	0.65994	0.10145	0.63634	8.81E-04	2.36E-07	1.35E-06	2.38E-07	1.25E-06	8.8453E-04
519785.45	4258699.45	5075.2046	0.14149	0.28247	0.14693	0.27908	8.80E-04	3.32E-07	5.79E-07	3.45E-07	5.49E-07	8.8208E-04
519817.12	4258636.77	5073.6588	0.15208	0.34659	0.15976	0.34203	8.80E-04	3.57E-07	7.11E-07	3.75E-07	6.73E-07	8.8212E-04
519879.44	4258512.32	5073.0554	0.16648	0.56398	0.17427	0.54845	8.80E-04	3.91E-07	1.16E-06	4.09E-07	1.08E-06	8.8293E-04
520139.3	4257643.93	5066.13413	0.05617	9.17068	0.05569	4.83437	8.79E-04	1.32E-07	1.88E-05	1.31E-07	9.52E-06	9.0729E-04
519892.98	4258474.3	5061.46595	0.16365	0.63985	0.17074	0.61936	8.78E-04	3.84E-07	1.31E-06	4.01E-07	1.22E-06	8.8120E-04
519839.77	4258590.07	5058.01824	0.15824	0.40943	0.16669	0.4019	8.77E-04	3.71E-07	8.40E-07	3.91E-07	7.91E-07	8.7968E-04
519849.69	4258570.63	5055.58624	0.16067	0.44254	0.1688	0.43291	8.77E-04	3.77E-07	9.08E-07	3.96E-07	8.52E-07	8.7940E-04
519829.85	4258609.51	5053.87735	0.15548	0.37972	0.1636	0.37409	8.77E-04	3.65E-07	7.79E-07	3.84E-07	7.36E-07	8.7884E-04
520109.57	4257685.4	5051.24348	0.05729	18.11687	0.05719	16.14073	8.76E-04	1.34E-07	3.72E-05	1.34E-07	3.18E-05	9.4531E-04
519869.53	4258531.76	5050.98463	0.16477	0.51894	0.1725	0.5058	8.76E-04	3.87E-07	1.06E-06	4.05E-07	9.96E-07	8.7892E-04
519859.61	4258551.2	5050.06105	0.16282	0.47876	0.17055	0.46742	8.76E-04	3.82E-07	9.82E-07	4.00E-07	9.20E-07	8.7859E-04
519896.37	4258202.44	5046.52187	0.08775	0.67106	0.08826	0.64371	8.75E-04	2.06E-07	1.38E-06	2.07E-07	1.27E-06	8.7835E-04
519898.27	4258388.65	5045.23844	0.13467	0.69031	0.13824	0.66525	8.75E-04	3.16E-07	1.42E-06	3.25E-07	1.31E-06	8.7844E-04
519807.12	4258655.32	5045.12689	0.14845	0.32421	0.15563	0.32026	8.75E-04	3.49E-07	6.65E-07	3.65E-07	6.30E-07	8.7706E-04
519895	4258213	5044.96186	0.08929	0.66667	0.08985	0.63993	8.75E-04	2.10E-07	1.37E-06	2.11E-07	1.26E-06	8.7807E-04
519897.66	4258191.92	5041.85514	0.08623	0.67543	0.08671	0.64737	8.74E-04	2.02E-07	1.39E-06	2.04E-07	1.27E-06	8.7755E-04
520050.56	4257775.22	5038.20556	0.05953	6.7432	0.06159	4.55385	8.74E-04	1.40E-07	1.38E-05	1.45E-07	8.96E-06	8.9693E-04
519893.52	4258223.6	5032.12637	0.0908	0.66181	0.09144	0.63541	8.73E-04	2.13E-07	1.36E-06	2.15E-07	1.25E-06	8.7584E-04
519773.47	4258718.6	5023.96459	0.13689	0.26374	0.14118	0.26059	8.71E-04	3.21E-07	5.41E-07	3.31E-07	5.13E-07	8.7309E-04
519797.12	4258673.87	5020.42155	0.14477	0.30406	0.15126	0.30053	8.71E-04	3.40E-07	6.24E-07	3.55E-07	5.92E-07	8.7268E-04
519889.32	4258483.19	5015.82869	0.16376	0.6179	0.17093	0.599	8.70E-04	3.84E-07	1.27E-06	4.01E-07	1.18E-06	8.7320E-04
520099.75	4257695.37	5011.91724	0.05733	18.73064	0.05742	18.30026	8.70E-04	1.35E-07	3.84E-05	1.35E-07	3.60E-05	9.4435E-04
520060.41	4257755.25	5006.5467	0.05881	10.7165	0.06037	6.15462	8.68E-04	1.38E-07	2.20E-05	1.42E-07	1.21E-05	9.0274E-04
519778.9	4258707.69	5005.64155	0.13847	0.2723	0.14328	0.26914	8.68E-04	3.25E-07	5.58E-07	3.36E-07	5.30E-07	8.6996E-04
519891.12	4258308.98	5004.655	0.10795	0.65265	0.10901	0.62985	8.68E-04	2.53E-07	1.34E-06	2.56E-07	1.24E-06	8.7112E-04
519897.39	4258439.32	4999.58673	0.15313	0.67401	0.1591	0.65114	8.67E-04	3.60E-07	1.38E-06	3.74E-07	1.28E-06	8.7055E-04
519894.17	4258350.1	4998.92315	0.11998	0.66736	0.12181	0.64382	8.67E-04	2.82E-07	1.37E-06	2.86E-07	1.27E-06	8.7024E-04
519897.92	4258413.76	4989.16585	0.14357	0.68352	0.14845	0.65945	8.65E-04	3.37E-07	1.40E-06	3.49E-07	1.30E-06	8.6873E-04
520139.33	4257633.93	4978.67429	0.05537	6.42921	0.05489	4.0221	8.64E-04	1.30E-07	1.32E-05	1.29E-07	7.92E-06	8.8488E-04
519890.59	4258234.79	4973.43861	0.09203	0.646	0.09271	0.6212	8.63E-04	2.16E-07	1.32E-06	2.18E-07	1.22E-06	8.6560E-04
519894.95	4258372.45	4963.07302	0.1273	0.67179	0.13002	0.64796	8.61E-04	2.99E-07	1.38E-06	3.05E-07	1.28E-06	8.6408E-04
519766.94	4258726.88	4956.53647	0.13393	0.25464	0.13775	0.25159	8.60E-04	3.14E-07	5.22E-07	3.23E-07	4.95E-07	8.6134E-04
520129.53	4257644.69	4954.94196	0.05554	10.86743	0.05513	5.82343	8.59E-04	1.30E-07	2.23E-05	1.29E-07	1.15E-05	8.9342E-04
520050.59	4257765.22	4954.64642	0.05865	6.65111	0.06065	4.43773	8.59E-04	1.38E-07	1.36E-05	1.42E-07	8.74E-06	8.8202E-04
519889.16	4258245.37	4949.56427	0.0936	0.638	0.09431	0.61434	8.58E-04	2.20E-07	1.31E-06	2.21E-07	1.21E-06	8.6144E-04
519890.89	4258333.81	4939.75483	0.1141	0.651	0.1155	0.6284	8.57E-04	2.68E-07	1.34E-06	2.71E-07	1.24E-06	8.5989E-04
519879.4	4258502.62	4934.56208	0.16252	0.56645	0.16989	0.55077	8.56E-04	3.82E-07	1.16E-06	3.99E-07	1.08E-06	8.5890E-04
520099.78	4257685.37	4927.36788	0.05649	21.40745	0.05656	17.17709	8.55E-04	1.33E-07	4.39E-05	1.33E-07	3.42E-05	9.3300E-04
520060.44	4257745.25	4922.76009	0.05794	10.57235	0.05945	5.97246	8.54E-04	1.36E-07	2.17E-05	1.40E-07	1.18E-05	8.8755E-04
519887.66	4258293.12	4918.49098	0.103	0.63567	0.10391	0.61312	8.53E-04	2.42E-07	1.30E-06	2.44E-07	1.21E-06	8.5609E-04
519887.62	4258255.99	4909.9268	0.09513	0.62925	0.09586	0.60669	8.52E-04	2.23E-07	1.29E-06	2.25E-07	1.19E-06	8.5454E-04
519839.73	4258580.37	4906.36282	0.15502	0.41215	0.16294	0.40417	8.51E-04	3.64E-07	8.45E-07	3.83E-07	7.96E-07	8.5337E-04
519869.48	4258522.06	4905.52177	0.16099	0.52104	0.16832	0.50801	8.51E-04	3.78E-07	1.07E-06	3.95E-07	1.00E-06	8.5368E-04
519849.65	4258560.94	4903.46845	0.15722	0.44501	0.16469	0.43528	8.50E-04	3.69E-07	9.13E-07	3.87E-07	8.57E-07	8.5301E-04
519829.81	4258599.81	4902.88962	0.15252	0.38229	0.16048	0.37626	8.50E-04	3.58E-07	7.84E-07	3.77E-07	7.41E-07	8.5264E-04
519893.78	4258448.1	4900.70855	0.15371	0.65113	0.15978	0.63002	8.50E-04	3.61E-07	1.34E-06	3.75E-07	1.24E-06	8.5332E-04
519859.57	4258541.5	4899.50746	0.1592	0.4811	0.16648	0.46984	8.50E-04	3.74E-07	9.87E-07	3.91E-07	9.25E-07	8.5247E-04
519807.12	4258646.05	4896.2286	0.14614	0.32603	0.15323	0.32209	8.49E-04	3.43E-07	6.69E-07	3.60E-07	6.34E-07	8.5123E-04
519819.89	4258619.25	4891.11679	0.14969	0.35589	0.15724	0.35117	8.48E-04	3.51E-07	7.30E-07	3.69E-07	6.91E-07	8.5048E-04
519894.73	4258397.25	4889.82136	0.13548	0.66768	0.13944	0.64452	8.48E-04	3.18E-07	1.37E-06	3.27E-07	1.27E-06	8.5140E-04
519760.37	4258735.08	4888.82848	0.131	0.246	0.1344	0.24302	8.48E-04	3.08E-07	5.05E-07	3.16E-07	4.78E-07	8.4955E-04
520050.62	4257755.22	4872.35194	0.05778	6.53993	0.05973	4.30174	8.45E-04	1.36E-07	1.34E-05	1.40E-07	8.47

519879.32	4258483.23	4700.47527	0.15505	0.57095	0.16153	0.555	8.15E-04	3.64E-07	1.17E-06	3.79E-07	1.09E-06	8.1828E-04
520060.53	4257715.25	4681.49453	0.05544	9.83815	0.05683	5.07588	8.12E-04	1.30E-07	2.02E-05	1.33E-07	9.99E-06	8.4242E-04
519763.24	4258718.09	4680.8441	0.12947	0.25142	0.13326	0.24877	8.12E-04	3.04E-07	5.16E-07	3.13E-07	4.90E-07	8.1349E-04
519887.93	4258389.51	4674.44912	0.12901	0.63224	0.13253	0.61108	8.11E-04	3.03E-07	1.30E-06	3.11E-07	1.20E-06	8.1388E-04
519880.54	4258310.43	4663.87262	0.10417	0.59771	0.10506	0.57773	8.09E-04	2.45E-07	1.23E-06	2.47E-07	1.14E-06	8.1178E-04
519878.81	4258259.63	4661.41098	0.09306	0.585	0.09364	0.56476	8.09E-04	2.18E-07	1.20E-06	2.20E-07	1.11E-06	8.1125E-04
519887.2	4258439.83	4647.24839	0.14564	0.61857	0.15103	0.59958	8.06E-04	3.42E-07	1.27E-06	3.55E-07	1.18E-06	8.0919E-04
519869.4	4258502.67	4645.89149	0.15392	0.52577	0.16065	0.51239	8.06E-04	3.61E-07	1.08E-06	3.77E-07	1.01E-06	8.0863E-04
520050.71	4257725.22	4637.13174	0.0553	6.00652	0.05711	3.69932	8.04E-04	1.30E-07	1.23E-05	1.34E-07	7.28E-06	8.2415E-04
519883.65	4258351.41	4634.06165	0.11536	0.61074	0.11722	0.59048	8.04E-04	2.71E-07	1.25E-06	2.75E-07	1.16E-06	8.0672E-04
519887.65	4258414.47	4630.07672	0.13712	0.62657	0.14169	0.60654	8.03E-04	3.22E-07	1.29E-06	3.33E-07	1.19E-06	8.0620E-04
520107.69	4257635.77	4628.28664	0.05327	8.4976	0.05309	4.77496	8.03E-04	1.25E-07	1.74E-05	1.25E-07	9.40E-06	8.2983E-04
519839.65	4258560.98	4626.83009	0.1487	0.41698	0.15548	0.40853	8.03E-04	3.49E-07	8.55E-07	3.65E-07	8.04E-07	8.0488E-04
519829.73	4258580.41	4626.54466	0.14664	0.38739	0.15388	0.3804	8.02E-04	3.44E-07	7.95E-07	3.61E-07	7.49E-07	8.0470E-04
519859.48	4258522.1	4623.23369	0.15231	0.48519	0.15894	0.47403	8.02E-04	3.58E-07	9.95E-07	3.73E-07	9.33E-07	8.0454E-04
519849.57	4258541.54	4622.45572	0.15057	0.44926	0.15711	0.43962	8.02E-04	3.53E-07	9.21E-07	3.69E-07	8.65E-07	8.0425E-04
519880.14	4258199.16	4622.21412	0.08309	0.58416	0.0834	0.56104	8.02E-04	1.95E-07	1.20E-06	1.96E-07	1.10E-06	8.0440E-04
519784.63	4258673.69	4620.12954	0.13519	0.28526	0.14098	0.28229	8.01E-04	3.17E-07	5.85E-07	3.31E-07	5.56E-07	8.0313E-04
519756.7	4258736.35	4618.30897	0.12668	0.24302	0.13009	0.2404	8.01E-04	2.97E-07	4.98E-07	3.05E-07	4.73E-07	8.0260E-04
519819.81	4258599.85	4618.19252	0.14431	0.3602	0.15158	0.35498	8.01E-04	3.39E-07	7.39E-07	3.56E-07	6.99E-07	8.0314E-04
519878.73	4258209.72	4610.99204	0.08443	0.58003	0.0848	0.55762	8.00E-04	1.98E-07	1.19E-06	1.99E-07	1.10E-06	8.0244E-04
520060.56	4257705.25	4606.37598	0.05466	9.36872	0.05601	4.59109	7.99E-04	1.28E-07	1.92E-05	1.31E-07	9.04E-06	8.2747E-04
519809.89	4258619.29	4600.10303	0.14167	0.33622	0.14859	0.33212	7.98E-04	3.33E-07	6.90E-07	3.49E-07	6.54E-07	7.9989E-04
519797.12	4258646.05	4594.75738	0.13836	0.30895	0.14482	0.30551	7.97E-04	3.25E-07	6.34E-07	3.40E-07	6.01E-07	7.9884E-04
519877.23	4258220.33	4590.66411	0.08574	0.57676	0.08621	0.55457	7.96E-04	2.01E-07	1.18E-06	2.02E-07	1.09E-06	7.9891E-04
520097.87	4257645.74	4589.17209	0.05325	13.38336	0.05328	5.66338	7.96E-04	1.25E-07	2.74E-05	1.25E-07	1.11E-05	8.3482E-04
519880.35	4258335.16	4589.13129	0.1099	0.59645	0.11126	0.57675	7.96E-04	2.58E-07	1.22E-06	2.61E-07	1.14E-06	7.9884E-04
519876.77	4258295.33	4587.11759	0.09958	0.5811	0.1003	0.56139	7.96E-04	2.34E-07	1.19E-06	2.35E-07	1.11E-06	7.9838E-04
519883.62	4258448.52	4571.17316	0.14615	0.59916	0.15164	0.58139	7.93E-04	3.43E-07	1.21E-06	3.56E-07	1.14E-06	7.9596E-04
519875.62	4258230.98	4566.52265	0.08711	0.56853	0.08757	0.54773	7.92E-04	2.05E-07	1.17E-06	2.06E-07	1.08E-06	7.9470E-04
520050.74	4257715.22	4563.54471	0.05452	5.70967	0.05628	3.40611	7.92E-04	1.28E-07	1.17E-05	1.32E-07	6.70E-06	8.1020E-04
519883.2	4258376.76	4556.71447	0.12262	0.60989	0.12555	0.58984	7.90E-04	2.88E-07	1.25E-06	2.95E-07	1.16E-06	7.9334E-04
519778.17	4258682.15	4554.94664	0.13235	0.27498	0.13769	0.27221	7.90E-04	3.11E-07	5.64E-07	3.23E-07	5.36E-07	7.9177E-04
520107.72	4257625.77	4552.71353	0.05254	5.96601	0.05234	3.61165	7.90E-04	1.23E-07	1.22E-05	1.23E-07	7.11E-06	8.0924E-04
519884.42	4258398.05	4538.06693	0.12973	0.6126	0.13356	0.59114	7.87E-04	3.05E-07	1.26E-06	3.14E-07	1.17E-06	7.9015E-04
519876.98	4258319.08	4532.69976	0.10474	0.58049	0.10573	0.56144	7.86E-04	2.46E-07	1.19E-06	2.48E-07	1.11E-06	7.8897E-04
520060.59	4257695.25	4532.40613	0.05389	8.67277	0.0552	3.99918	7.86E-04	1.27E-07	1.78E-05	1.30E-07	7.87E-06	8.1204E-04
519869.36	4258492.97	4529.30533	0.15048	0.52773	0.15683	0.5142	7.86E-04	3.53E-07	1.08E-06	3.68E-07	1.01E-06	7.8840E-04
519884.11	4258423.07	4515.20061	0.13773	0.60676	0.14246	0.58827	7.83E-04	3.23E-07	1.24E-06	3.34E-07	1.16E-06	7.8620E-04
519873.22	4258241.96	4514.93519	0.08831	0.55911	0.08877	0.5392	7.83E-04	2.07E-07	1.15E-06	2.08E-07	1.06E-06	7.8572E-04
520097.9	4257635.74	4514.80896	0.05251	8.15428	0.05253	4.11655	7.83E-04	1.23E-07	1.67E-05	1.23E-07	8.10E-06	8.0815E-04
519873.42	4258279.22	4512.69717	0.09517	0.5637	0.09573	0.54466	7.83E-04	2.23E-07	1.16E-06	2.25E-07	1.07E-06	7.8538E-04
519880.05	4258457.2	4512.1099	0.14655	0.58064	0.15213	0.56399	7.83E-04	3.44E-07	1.19E-06	3.57E-07	1.11E-06	7.8561E-04
519880.02	4258360.21	4501.27199	0.11631	0.59477	0.11853	0.57546	7.81E-04	2.73E-07	1.22E-06	2.78E-07	1.13E-06	7.8363E-04
519829.69	4258570.72	4498.74189	0.14374	0.38968	0.15047	0.38237	7.80E-04	3.37E-07	7.99E-07	3.53E-07	7.53E-07	7.8253E-04
519859.44	4258512.41	4497.46069	0.14904	0.48715	0.15543	0.47592	7.80E-04	3.50E-07	9.99E-07	3.65E-07	9.37E-07	7.8271E-04
519839.61	4258551.28	4496.30002	0.14564	0.41886	0.15193	0.41045	7.80E-04	3.42E-07	8.59E-07	3.57E-07	8.08E-07	7.8223E-04
519819.77	4258590.15	4492.7195	0.14163	0.36249	0.14864	0.35681	7.79E-04	3.33E-07	7.43E-07	3.49E-07	7.02E-07	7.8137E-04
519849.53	4258531.84	4492.01431	0.1474	0.45115	0.15366	0.44155	7.79E-04	3.46E-07	9.25E-07	3.61E-07	8.69E-07	7.8162E-04
520050.77	4257705.22	4490.79654	0.05376	5.31856	0.05547	3.06676	7.79E-04	1.26E-07	1.09E-05	1.30E-07	6.04E-06	7.9611E-04
519771.67	4258690.5	4487.7496	0.12948	0.26527	0.13442	0.26262	7.78E-04	3.04E-07	5.44E-07	3.16E-07	5.17E-07	7.8006E-04
519809.85	4258609.59	4477.82481	0.13923	0.33805	0.14603	0.33381	7.77E-04	3.27E-07	6.93E-07	3.43E-07	6.57E-07	7.7868E-04
519766.03	4258700.91	4476.51688	0.12758	0.25692	0.13216	0.25423	7.76E-04	3.00E-07	5.27E-07	3.10E-07	5.00E-07	7.7807E-04
519871.67	4258252.59	4475.38155	0.08969	0.5525	0.09014	0.53337	7.76E-04	2.11E-07	1.13E-06	2.12E-07	1.05E-06	7.7884E-04
519797.12	4258636.77	4473.7978	0.13627	0.3105	0.14263	0.30707	7.76E-04	3.20E-07	6.37E-07	3.35E-07	6.04E-07	7.7784E-04
519876.47	4258465.89	4464.86384	0.14677	0.56265	0.15244	0.54713	7.74E-04	3.45E-07	1.15E-06	3.58E-07	1.08E-06	7.7734E-04
519873.09	4258304.29	4459.83184	0.10011	0.56327	0.10087	0.54473	7.74E-04	2.35E-07	1.16E-06	2.37E-07	1.07E-06	7.7624E-04
520060.63	4257685.25	4459.24021	0.05314	7.6374	0.05441	3.37605	7.74E-04	1.25E-07	1.57E-05	1.28E-07	6.65E-06	7.9600E-04
519787.36	4258656.36	4457.9352	0.13352	0.29196	0.13949	0.28891	7.73E-04	3.13E-07	5.99E-07	3.27E-07	5.69E-07	7.7502E-04
519876.76	4258343.88	4448.17379	0.11051	0.5789	0.11214	0.56021	7.72E-04	2.59E-07	1.19E-06	2.63E-07	1.10E-06	7.7433E-04
520097.93	4257625.74	4442.50073	0.05118	5.53467	0.0518	3.12906	7.71E-04	1.22E-07	1.14E-05	1.22E-07	6.16E-06	7.8829E-04
519872.9	4258474.58	4435.41964	0.14696	0.54565	0.15276	0.53112	7.69E-04	3.45E-07	1.12E-06	3.59E-07	1.05E-06	7.7217E-04
519759.55	4258709.31	4426.40771	0.12517	0.24824	0.12912	0.2458	7.68E-04	2.94E-07	5.09E-07	3.03E-07	4.84E-07	7.6933E-04
519871.37	4258202.78	4422.60091	0.08152	0.5447	0.0818	0.52368	7.67E-04	1.91E-07	1.12E-06	1.92E-07	1.03E-06	7.6963E-04
519869.32	4258483.27	4420.58663	0.14711	0.52945	0.15306	0.51583	7.67E-04	3.45E-07	1.09E-06	3.59E-07	1.02E-06	7.6954E-04
520050.81	4257695.22	4420.5163	0.05301	4.81166	0.05468	2.70871	7.67E-04	1.24E-07	9.87E-06	1.28E-07	5.33E-06	7.8217E-04
519880.57	4258431.68	4420.07131	0.1383	0.58817	0.14314	0.57095	7.67E-04	3.25E-07	1.21E-06	3.36E-07	1.12E-06	7.6963E-04
519880.91	4258406.58	4420.04466	0.13047	0.59461	0.13457	0.57642	7.67E-04	3.06E-07	1.22E-06	3.16E-07	1.13E-06	7.6961E-04
519879.54	4258385.65	4416.96941	0.12338	0.59131	0.12668	0.57265	7.66E-04	2.90E-07	1.21E-06	2.97E-07	1.13E-06	7.6903E-04
519869.91	4258213.37	4405.85927	0.08277	0.54202	0.08312	0.52132	7.64E-04	1.94E-07	1.11E-06	1.95E-07	1.03E-06	7.6670E-04
519873.42	4258327.74	4402.23871	0.10533	0.56431	0.10651	0.54611	7.64E-04	2.47E-07	1.16E-06	2.50E-07	1.08E-06	7.6628E-04
519869.76	4258288.1	4402.16979	0.09573	0.54947	0.09632	0.53099	7.64E-04	2.25E-07	1.13E-06	2.26E-07	1.05E-06	7.6616E-04
519780.97	4258664.98	4395.85791	0.13084	0.28134	0.13647	0.27853	7.62E-04	3.07E-07	5.77E-07	3.20E-07	5.48E-07	7.6419E-04
519868.35	4258224	4381.77522	0.08404	0.53669	0.08441	0.51678	7.60E-04	1.97E-07	1.10E-06	1.98E-07	1.02E-06	7.6251E-04
519859.4	4258502.71	4379.62971	0.14586	0.48898	0.15197	0.47762	7.60E-04	3.42E-07	1.00E-06	3.57E-07	9.40E-07	7.6227E-04
519829.65	4258561.02	4375.67471	0.1409	0.39145	0.14706	0.3841	7.59E-04	3.31E-07	8.03E-07	3.45E-07	7.56E-07	7.6118E-04
519819.73	4258580.46	4373.37667	0.13896	0.36472	0.14559	0.35859	7.59E-04	3.26E-07	7.48E-07	3.42E-07	7.06E-07	7.6066E-04
519753.03	4258717.62	4372.10832	0.12265	0.23995	0.12608	0.23767	7.58E-04	2.88E-07	4.92E-07	2.96E-07	4.68E-07	7.5987E-04
519839.57	4258541.58	4371.23129	0.14266	0.42059	0.1486	0.41223	7.58E-04	3.35E-07	8.63E-07	3.49E-07	8.11E-07	7.6053E-04
519849.48	4258522.15	4367.81373	0.14433	0.4529	0.15036	0.4433	7.58E-04	3.39E-07	9.29E-07	3.53E-07	8.73E-07	7.6007E-04
519876.4	4258369.02	4366.61948	0.11709	0.57792	0.11969	0.55963	7.57E-04	2.75E-07	1.19E-06	2.81E-07	1.10E-06	7.6021E-04
519809.81	4258599.89	4360.87578	0.13678	0.34007	0.14346	0.33547	7.56E-04	3.21E-07	6.97E-07	3.37E-07	6.60E-07	7.5839E-04
520050.84	4257685.22	4349.84048	0.05227	4.20248	0.05391	2.36895	7.54E-04	1.23E-07	8.62E-06	1.27E-07	4.66E-06	7.6799E-04
519866.67	4258234.68	4349.36172	0.08531	0.52975	0.08567	0.51086	7.54E-04	2.00E-07	1.09E-06	2.01E-07	1.01E-06	7.5687E-04
519877.03	4258440.28	4339.01346	0.13874	0.57027	0.14365	0.55422	7.53E-04	3.26E-07	1.17E-06	3.37E-07	1.09E-06	7.5551E-04
519799.89	4258619.33	4337.55388	0.13431	0.31813	0.14066	0.31453	7.52E-04	3.15E-07	6.52E-07	3.30E-07	6.19E-07	7.5425E-04
519774.53	4258673.49	4333.35922	0.12817	0.27128	0.13341	0.26869	7.52E-04	3.01E-07	5.56E-07	3.13E-07	5.29E-07	7.5330E-04
519869.4	4258313.25	4330.59221	0.10065	0.54689	0.10153	0.52929	7.51E-04	2.36E-07	1.12E-06	2.38E-07	1.04E-06	7.5376E-04
519866.17	4258372.08	4327.69683	0.09158	0.53172	0.092	0.51401	7.51E-04	2.15E-07	1.09E-06	2.16E-07	1.01E-06	7.5315E-04
519873.17	4258352.61	4310.33549	0.11113	0.56216	0.11308	0.54454	7.48E-04	2.61E-07	1.15E-06	2.65E-07	1.07E-06	7.5036E-04
519877.4	4258415.11	4309.45263	0.13108	0.57689	0.13535	0.55999	7.47E-04	3.08E-07	1.18E-06	3.18E-07	1.10E-06	7.5037E-04
519864.54	4258245.55	4299.24466	0.08649	0.52182	0.08683	0.5037	7.46E-04	2.03E-07	1.07E-06	2.04E-07	9.92E-07	7.4815E-04
519866.11	4258296.99	4287.76717	0.09628	0.53466	0.09693	0.51695	7.44E-04	2.26E-07	1.10E-06	2.28E-07	1.02E-06	7.4626E-04
519875.89	4258394.53	4285.18656	0.12404	0.57291	0.12761	0.55571	7.43E-04	2.91E-07	1.17E-06	3.00E-07	1.09E-06	7.4611E-04
519873.49	4258448.89	4273.04409	0.13905	0.55309	0.14403	0.53811	7.41E-04	3.26E-07	1.13E-06	3.38E-07	1.06E-06	7.4400E-04
519869.86	4258336.39	4272.47501	0.10594	0.54882	0.10737	0.5315	7.41E-04	2.49E-07	1.13E-06	2.52E-07	1.05E-06	7.4371E-04
519768.05	4258681.91	4270.88926	0.12551	0.26176	0.13036	0.25934	7.41E-04	2.95E-07	5.37E-07	3.06E-07	5.11E-07	7.4241E-04
519859.36	4258493.01	4265.19398	0.1427	0.49053	0.14849	0.47906	7.40E-04	3.35E-07	1.01E-06	3.49E-07	9.43E-07	7.4241E-04
519819.69	4258570.76	4258.494	0.13632	0.36675	0.14248	0.36031	7.39E-04	3.20E-07	7.52E-07	3.34E-07	7.09E-07	7.4073E-04
519829.61	4258551.32	4257.12037	0.13811	0.39315	0.14385	0.38579	7.38E-04	3.24E-07	8.06E-07	3.38E-07	7.59E-07	7.4061E-04
519783.67	4258647.59	4253.61179	0.1292	0.28776	0.1349	0.28486	7.38E-04	3.03E-07	5.90E-07	3.17E-07	5.61E-07	7.3955E-04
519762.31	4258692.06	4252.4485	0.12366	0.25348	0.12814	0.25112	7.38E-04	2.90E-07	5.20E-07	3.01E-07	4.94E-07	7.3917E-04
519839.53	4258531.88	4250.95863	0.13978	0.42221	0.14547	0.41389	7.37E-04	3.28E-07	8.66E-07	3.42E-07	8.15E-07	7.3966E-04
519849.44	4258512.45	4249.97586	0.14137	0.45458	0.1472	0.44492	7.37E-04	3.32E-07	9.32E-07	3.46E-07	8.76E-07	7.3962E-04
519809.77	4258590.2	4249.80862	0.13433	0.34211	0.14079	0.33707	7.37E-04	3.15E-07	7.02E-07	3.31E-07	6.64E-07	7.3912E-04
519872.78	4258377.82	4232.6129	0.11776	0.5608	0.12069	0.5438	7.34E-04	2.76E-07	1.15E-06	2.83E-07	1.07E-06	7.3691E-04
519862.61	4258206.39	4231.48306	0.07995	0.51019	0.08022	0.49069	7.34E-04	1.88E-07	1.05E-06	1.88E-07	9.66E-07	7.3632E-04
519799.85	4258609.63	4229.7244	0.13208	0.3198	0.13834	0.31603	7.34E-04	3.10E-07	6.56E-07	3.25E-07	6.22E-07	7.3554E-04
519862.75	4258280.89	4229.12653	0.09212	0.51891	0.09258	0.50173	7.34E-04	2.16E-07	1.06E-06	2.17E-07	9.88E-07	7.3604E-04
519869.94	4258457.5	4226.96904	0.13935	0.53696	0.14443	0.52284	7.33E-04	3.27E-07	1.10E-06	3.39E-07	1.03E-06	7.3595E-04
519873.89	4258423.64	4213.08971	0.13157	0.55964	0.13594	0.54395	7.31E-04	3.09E-07	1.15E-06	3.19E-07	1.07E-06	7.3359E-04
519861.09	4258217.01	4209.08557	0.08114	0.50604	0.08143	0.48719	7.30E-04	1.90E-07	1.04E-06	1.91E-07	9.59E-07	7.3243E-04
519865.71	4258322.22	4204.03236	0.10124	0.53186	0.10233	0.51505	7.29E-04	2.38E-07	1.09E-06	2.40E-07	1.01E-06	7.3175E-04
519789.93	4258629.07	4201.72767	0.1296	0.30002	0.13547	0.29691	7.29E-04	3.04E-07	6.15E-07	3.18E-07	5.84E-07	7.3059E-04
519777.3	4258656.27	4194.4603	0.12671	0.27741	0.13211	0.27473	7.28E-04	2.97E-07	5.69E-07	3.10E-07	5.41E-07	7.2923E-04
519866.4	4258466.1	4192.84573	0.13952	0.52133	0.14471	0.50811	7.27E-04	3.28E-07	1.07E-06	3.40E-07	1.00E-06	7.2997E-04
519755.85	4258700.52	4192.53086	0.12102	0.245	0.12517	0.24264	7.27E-04	2.84E-07	5.02E-07	2.94E-07	4.78E-07	7.2873E-04
519869.58	4258361.33	4185.12565	0.11191	0.54745	0.11421	0.53081	7.26E-04	2.63E-07	1.12E-06	2.68E-07	1.04E-06	7.2859E-04
519859.47	4258227.66	4179.35828	0.08234	0.50015	0.08262	0.4822	7.25E-04	1.93E-07	1.03E-06	1.94E-07	9.49E-07	7.2725E-04
519862.86	4258474.71	4172.75118	0.13964	0.50641	0.14497	0.49401	7.24E-04	3.28E-07	1.04E-06	3.40E-07	9.72E-07	7.2642E-04
519862.45	4258305.88	4170.11171	0.09681	0.51964	0.09758	0.50283	7.23E-04	2.27E-07	1.07E-06	2.29E-07	9.90E-07	7.2580E-04
520058.71	4257645.62	4167.69053	0.05016	2.92811	0.05137	1.74632	7.23E-04	1.18E-07	6.01E-06	1.21E-07	3.44E-06	7.3255E-04
519872.23	4258403.42	4165.24308	0.12465	0.55552	0.12843	0.53963	7.22E-04	2.93E-07	1.14E-06	3.02E-07	1.06E-06	7.2524E-04
519859.32	4258483.31	4162.74439	0.13967	0.49201	0.14512	0.48042	7.22E-04	3.28E-07	1.01E-06	3.41E-07	9.46E-07	7.2463E-04
519859.32	4258264.95	4156.97802	0.08821	0.50238	0.08853	0.48569	7.21E-04	2.07E-07	1.03E-06	2.08E-07	9.56E-07	7.2341E-04
519819.65	4258561.06	4147.169	0.13373	0.36836	0.13939	0.36184	7.19E-04	3.14E-07	7.55E-07	3.27E-07	7.12E-07	7.2142E-04
519749.35	4258708.89	4144.56978	0.11874	0.23692	0.12233	0.23479	7.19E-04	2.79E-07	4.86E-07	2.87E-07	4.62E-07	7.2037E-04
519866.1	4258345.05	4143.27527	0.10653	0.53369	0.10827	0.51733	7.19E-04	2.50E-07	1.09E-06	2.54E-07	1.02E-06	7.2125E-04
519809.73	4258580.5	4142.8893	0.1319	0.34406	0.138	0.33862	7.19E-04	3.10E-07	7.06E-07	3.24E-07	6.67E-07	7.2057E-04
519857.72	4258238.37	4141.53687	0.08353	0.49453	0.08379	0.47723	7.18E-04	1.96E-07	1.01E-06	1.97E-07	9.39E-07	7.2068E-04
519849.4	4258502.75	4138.78267	0.1385	0.45616	0.14412	0.44639	7.18E-04	3.25E-07	9.36E-07	3.38E-07	8.79E-07	7.2033E-04
519829.57	4258541.62	4136.67272	0.13523	0.3943	0.14058	0.38708	7.17E-04	3.17E-07	8.09E-07	3.30E-07	7.62E-07	7.1971E-04
519839.48	4258522.19	4135.42047	0.13699	0.4237	0.14249	0.41539	7.17E-04	3.22E-07	8.69E-07	3.35E-07	8.18E-07	7.1961E-04
519770.89	4258664.84	4134.97597	0.12421	0.2626	0.12929	0.26512	7.17E-04	2.92E-07	5.49E-07	3.04E-07	5.22E-07	7.1886E-04
519870.38	4258432.17	4130.97221	0.13198	0.54322	0.13642	0.52858	7.16E-04	3.10E-07	1.11E-06	3.20E-07	1.04E-06	7.1928E-04
519799.81	4258599.93	4127.00352	0.12984	0.32158	0.136	0.31748	7.16E-04	3.05E-07	6.60E-07	3.19E-07	6.25E-07	7.1772E-04
519859.12	4258289.71	4121.93993	0.09263	0.50647	0.09318	0.48976	7.15E-04	2.17E-07	1.04E-06	2.19E-07	9.64E-07	7.1737E-04
519869.16	4258386.62	4107.64485	0.1184	0.54456	0.12163	0.52876	7.12E-04	2.78E-07	1.12E-06	2.86E-07	1.04E-06	7.1517E-04
520058.74	4257635.62	4104.91196	0.0495	2.4012	0.05067	1.52317	7.12E-04	1.16E-07	4.92E-06	1.19E-07	3.00E-06	7.2014E-04
519789.89	4258619.37	4100.41114	0.12755	0.30143	0.13335	0.29836	7.11E-04	2.99E-07	6.18E-07	3.13E-07	5.87E-07	7.1302E-04
519862.02	4258331.18	4074.81257	0.10179	0.51689	0.10314	0.50095	7.07E-04	2.39E-07	1.06E-06	2.42E-07	9.86E-07	7.0929E-04
519764.44	4258673.31	4074.7917	0.12171	0.2583	0.12646	0.256	7.07E-04	2.86E-07	5.30E-07	2.97E-07	5.04E-07	7.0837E-04
520048.92	4257645.58	4070.74567	0.04937	2.12672	0.05093	1.39333	7.06E-04	1.16E-07	4.36E-06	1.20E-07	2.74E-06	7.1339E-04
519779.97	4258638.81	4070.21172	0.12509	0.28353	0.13049	0.28079	7.06E-04	2.94E-07	5.81E-07	3.06E-07	5.53E-07	7.0760E-04
519866.87	4258440.7	4063.36958	0.1323	0.52755	0.13681	0.51384	7.05E-04	3.11E-07	1.08E-06	3.21E-07	1.01E-06	7.0750E-04
519865.99	4258370.06	4060.51281	0.11256	0.53234	0.1152	0.51674	7.04E-04	2.64E-07	1.09E-06	2.70E-07	1.02E-06	7.0692E-04
519855.72	4258273.7	4059.13764	0.08866	0.48982	0.08901	0.47377	7.04E-04	2.08E-07	1.00E-06	2.09E-07	9.33E-07	7.0639E-04
519868.57	4258412.31	4058.66696	0.12517	0.53875	0.12909	0.52404	7.04E-04	2.94E-07	1.10E-06

519859.18	4258362.36	3898.80145	0.10772	0.50542	0.11009	0.49105	6.76E-04	2.53E-07	1.04E-06	2.58E-07	9.67E-07	6.7874E-04
519848.7	4258266.51	3890.18915	0.08516	0.46024	0.08542	0.44511	6.75E-04	2.00E-07	9.44E-07	2.01E-07	8.76E-07	6.7696E-04
519861.26	4258430.08	3889.53006	0.12596	0.50749	0.13004	0.49469	6.75E-04	2.96E-07	1.04E-06	3.05E-07	9.74E-07	6.7724E-04
519779.89	4258619.41	3884.80268	0.12132	0.28599	0.1266	0.28318	6.74E-04	2.85E-07	5.87E-07	2.97E-07	5.57E-07	6.7533E-04
519861.92	4258404.22	3881.35452	0.11937	0.51269	0.1229	0.4993	6.73E-04	2.80E-07	1.05E-06	2.89E-07	9.83E-07	6.7581E-04
519845.08	4258213.63	3871.03495	0.07689	0.44749	0.07706	0.43102	6.71E-04	1.81E-07	9.18E-07	1.81E-07	8.48E-07	6.7354E-04
519754.86	4258674.36	3864.59018	0.11622	0.24668	0.12054	0.24458	6.70E-04	2.73E-07	5.06E-07	2.83E-07	4.81E-07	6.7184E-04
519848.52	4258291.2	3862.82987	0.08966	0.46781	0.09025	0.45269	6.70E-04	2.10E-07	9.59E-07	2.12E-07	8.91E-07	6.7226E-04
519845.09	4258251.01	3852.12449	0.08216	0.45081	0.08235	0.43556	6.68E-04	1.93E-07	9.25E-07	1.93E-07	8.57E-07	6.7030E-04
519769.97	4258638.85	3851.2079	0.119	0.26954	0.1239	0.26708	6.68E-04	2.79E-07	5.53E-07	2.91E-07	5.26E-07	6.6962E-04
519809.61	4258551.41	3839.34812	0.1248	0.34855	0.12966	0.34269	6.66E-04	2.93E-07	7.15E-07	3.04E-07	6.75E-07	6.6790E-04
519799.69	4258570.84	3838.98827	0.12318	0.32661	0.12838	0.32147	6.66E-04	2.89E-07	6.70E-07	3.01E-07	6.33E-07	6.6775E-04
519843.45	4258224.29	3838.50622	0.07796	0.44222	0.0781	0.42652	6.66E-04	1.83E-07	9.07E-07	1.83E-07	8.40E-07	6.6788E-04
519819.53	4258531.97	3830.04031	0.12632	0.37224	0.1311	0.36581	6.64E-04	2.97E-07	7.63E-07	3.08E-07	7.20E-07	6.6639E-04
519858.81	4258387.51	3829.87012	0.11368	0.50306	0.11679	0.48958	6.64E-04	2.67E-07	1.03E-06	2.74E-07	9.64E-07	6.6681E-04
519857.6	4258438.96	3827.62517	0.12622	0.49288	0.13038	0.48089	6.64E-04	2.96E-07	1.01E-06	3.06E-07	9.47E-07	6.6644E-04
519789.77	4258590.28	3825.58183	0.1214	0.30613	0.12687	0.30205	6.64E-04	2.85E-07	6.28E-07	2.98E-07	5.95E-07	6.6534E-04
519854.64	4258349.11	3824.37037	0.1029	0.48877	0.10487	0.47473	6.63E-04	2.42E-07	1.00E-06	2.46E-07	9.35E-07	6.6574E-04
519839.36	4258493.09	3821.08391	0.12917	0.4278	0.13416	0.41918	6.63E-04	3.03E-07	8.77E-07	3.15E-07	8.25E-07	6.6507E-04
519829.44	4258512.53	3819.53858	0.12778	0.39855	0.1327	0.39123	6.62E-04	3.00E-07	8.17E-07	3.12E-07	7.70E-07	6.6468E-04
519748.46	4258682.95	3811.68278	0.11396	0.23856	0.11798	0.23657	6.61E-04	2.68E-07	4.89E-07	2.77E-07	4.66E-07	6.6262E-04
519845.12	4258275.2	3806.93919	0.0858	0.45191	0.08615	0.43724	6.60E-04	2.01E-07	9.27E-07	2.02E-07	8.61E-07	6.6249E-04
519851.48	4258332.54	3806.91152	0.09834	0.47848	0.09985	0.46424	6.60E-04	2.31E-07	9.81E-07	2.34E-07	9.14E-07	6.6265E-04
519779.85	4258609.72	3801.37457	0.11945	0.28726	0.12468	0.2843	6.59E-04	2.80E-07	5.89E-07	2.93E-07	5.60E-07	6.6105E-04
519763.61	4258647.54	3796.03309	0.11682	0.26024	0.12148	0.25792	6.58E-04	2.74E-07	5.34E-07	2.85E-07	5.08E-07	6.6001E-04
519858.29	4258413.02	3794.19963	0.11984	0.49854	0.12349	0.48594	6.58E-04	2.81E-07	1.02E-06	2.90E-07	9.57E-07	6.6064E-04
519855.61	4258371.01	3789.78736	0.10834	0.49268	0.11099	0.47911	6.57E-04	2.54E-07	1.01E-06	2.61E-07	9.43E-07	6.5979E-04
519848.24	4258316.16	3786.64588	0.0941	0.46777	0.09521	0.45333	6.57E-04	2.21E-07	9.59E-07	2.24E-07	8.92E-07	6.5907E-04
519853.95	4258447.85	3779.39162	0.12638	0.47881	0.13062	0.46759	6.56E-04	2.97E-07	9.82E-07	3.07E-07	9.20E-07	6.5802E-04
519769.93	4258629.15	3766.65337	0.11727	0.27061	0.12212	0.26814	6.53E-04	2.75E-07	5.55E-07	2.87E-07	5.28E-07	6.5495E-04
519841.41	4258259.97	3763.11288	0.08257	0.44022	0.08281	0.42551	6.53E-04	1.94E-07	9.03E-07	1.94E-07	8.38E-07	6.5482E-04
519742.01	4258691.44	3761.35006	0.11177	0.23081	0.11542	0.22895	6.52E-04	2.62E-07	4.73E-07	2.71E-07	4.51E-07	6.5385E-04
519844.92	4258299.95	3757.41441	0.09012	0.45649	0.0909	0.44196	6.52E-04	2.12E-07	9.36E-07	2.13E-07	8.70E-07	6.5394E-04
519850.29	4258456.74	3748.82258	0.12653	0.46556	0.13089	0.45498	6.50E-04	2.97E-07	9.55E-07	3.07E-07	8.96E-07	6.5267E-04
519799.65	4258561.14	3746.78149	0.12101	0.32787	0.12581	0.32262	6.50E-04	2.84E-07	6.72E-07	2.95E-07	6.35E-07	6.5175E-04
519809.57	4258541.71	3741.65627	0.12253	0.34964	0.12714	0.34382	6.49E-04	2.88E-07	7.17E-07	2.98E-07	6.77E-07	6.5095E-04
519757.2	4258656.12	3740.99133	0.11464	0.25137	0.11903	0.24921	6.49E-04	2.69E-07	5.16E-07	2.79E-07	4.91E-07	6.5041E-04
519789.73	4258580.58	3739.59975	0.11936	0.30764	0.12452	0.30321	6.49E-04	2.80E-07	6.31E-07	2.92E-07	5.97E-07	6.5042E-04
519819.48	4258522.27	3729.36377	0.12398	0.37345	0.12866	0.36697	6.47E-04	2.91E-07	7.66E-07	3.02E-07	7.22E-07	6.4892E-04
519839.32	4258483.4	3727.95584	0.12666	0.42878	0.1314	0.42003	6.47E-04	2.97E-07	8.79E-07	3.08E-07	8.27E-07	6.4891E-04
519855.22	4258396.23	3727.12778	0.11412	0.48904	0.11737	0.47653	6.46E-04	2.68E-07	1.00E-06	2.76E-07	9.38E-07	6.4894E-04
519846.63	4258465.62	3723.7055	0.12643	0.45224	0.13088	0.44239	6.46E-04	2.97E-07	9.28E-07	3.07E-07	8.71E-07	6.4826E-04
519829.4	4258502.83	3720.18332	0.1254	0.39972	0.13019	0.3923	6.45E-04	2.94E-07	8.20E-07	3.06E-07	7.72E-07	6.4744E-04
519779.81	4258600.02	3720.16493	0.11758	0.28857	0.1227	0.28533	6.45E-04	2.76E-07	5.92E-07	2.88E-07	5.62E-07	6.4696E-04
519841.55	4258283.89	3720.13908	0.08638	0.44329	0.08888	0.42899	6.45E-04	2.03E-07	9.09E-07	2.04E-07	8.44E-07	6.4740E-04
519842.98	4258474.51	3719.36844	0.12653	0.4402	0.13113	0.43095	6.45E-04	2.97E-07	9.03E-07	3.08E-07	8.48E-07	6.4746E-04
519854.67	4258421.83	3716.57041	0.12019	0.4847	0.12393	0.47288	6.45E-04	2.82E-07	9.94E-07	2.91E-07	9.31E-07	6.4712E-04
519850.96	4258358.07	3712.37918	0.10352	0.4764	0.1058	0.46317	6.44E-04	2.43E-07	9.77E-07	2.48E-07	9.12E-07	6.4628E-04
519838.04	4258243.88	3711.70273	0.07935	0.42694	0.07949	0.41139	6.44E-04	1.86E-07	8.76E-07	1.87E-07	8.12E-07	6.4584E-04
519751.14	4258665.52	3701.77493	0.1128	0.2433	0.11694	0.24128	6.42E-04	2.65E-07	4.99E-07	2.75E-07	4.75E-07	6.4357E-04
519836.31	4258217.24	3700.71905	0.07541	0.4192	0.07552	0.40413	6.42E-04	1.77E-07	8.60E-07	1.77E-07	7.96E-07	6.4388E-04
519847.82	4258341.42	3689.02888	0.09884	0.46571	0.10064	0.45238	6.40E-04	2.32E-07	9.55E-07	2.36E-07	8.91E-07	6.4216E-04
519769.89	4258619.46	3688.05895	0.11554	0.2717	0.12036	0.26916	6.40E-04	2.71E-07	5.57E-07	2.83E-07	5.30E-07	6.4132E-04
519852.05	4258379.67	3680.66653	0.10882	0.47956	0.11168	0.46692	6.38E-04	2.55E-07	9.84E-07	2.62E-07	9.19E-07	6.4082E-04
519844.61	4258324.97	3669.95039	0.09453	0.45517	0.09591	0.44164	6.37E-04	2.22E-07	9.34E-07	2.25E-07	8.69E-07	6.3879E-04
519837.73	4258268.92	3669.40876	0.08297	0.42964	0.08329	0.41551	6.36E-04	1.95E-07	8.81E-07	1.96E-07	8.18E-07	6.3853E-04
519799.61	4258551.45	3655.68616	0.11888	0.32897	0.12335	0.32369	6.34E-04	2.79E-07	6.75E-07	2.90E-07	6.37E-07	6.3594E-04
519789.69	4258570.88	3654.88025	0.11734	0.30895	0.12212	0.30429	6.34E-04	2.75E-07	6.34E-07	2.87E-07	5.99E-07	6.3572E-04
519841.32	4258308.7	3650.60525	0.09056	0.44469	0.09157	0.43095	6.33E-04	2.13E-07	9.12E-07	2.15E-07	8.48E-07	6.3537E-04
519759.97	4258638.89	3650.49082	0.11334	0.25657	0.11781	0.2543	6.33E-04	2.66E-07	5.26E-07	2.77E-07	5.01E-07	6.3473E-04
519744.76	4258674.16	3649.80706	0.11067	0.23536	0.11456	0.23345	6.33E-04	2.60E-07	4.83E-07	2.69E-07	4.60E-07	6.3451E-04
519851.05	4258430.63	3649.64506	0.1204	0.47103	0.1242	0.45999	6.33E-04	2.83E-07	9.66E-07	2.92E-07	9.05E-07	6.3546E-04
519809.53	4258532.01	3645.58448	0.12033	0.35064	0.12476	0.34484	6.32E-04	2.82E-07	7.19E-07	2.93E-07	6.79E-07	6.3428E-04
519779.77	4258590.32	3640.62353	0.11567	0.29014	0.12067	0.28846	6.31E-04	2.72E-07	5.95E-07	2.83E-07	5.64E-07	6.3316E-04
519851.63	4258404.96	3634.02745	0.11449	0.47551	0.11783	0.46387	6.30E-04	2.69E-07	9.75E-07	2.77E-07	9.13E-07	6.3274E-04
519819.44	4258512.57	3631.58891	0.12173	0.37447	0.12629	0.36796	6.30E-04	2.86E-07	7.68E-07	2.96E-07	7.24E-07	6.3196E-04
519834.39	4258252.77	3627.41814	0.07972	0.41724	0.07991	0.40321	6.28E-04	1.87E-07	8.56E-07	1.88E-07	7.94E-07	6.3118E-04
519829.36	4258493.14	3626.07207	0.1231	0.40083	0.12775	0.39326	6.28E-04	2.89E-07	8.22E-07	3.00E-07	7.74E-07	6.3111E-04
519837.97	4258292.57	3623.46539	0.08682	0.4333	0.08752	0.41952	6.28E-04	2.04E-07	8.89E-07	2.05E-07	8.26E-07	6.3060E-04
519769.85	4258609.76	3613.77736	0.11382	0.27284	0.1186	0.27014	6.27E-04	2.67E-07	5.60E-07	2.78E-07	5.32E-07	6.2843E-04
519847.27	4258367.04	3600.47184	0.10403	0.46369	0.10656	0.45138	6.24E-04	2.44E-07	9.51E-07	2.50E-07	8.89E-07	6.2682E-04
519753.59	4258647.53	3598.12457	0.11131	0.24792	0.11552	0.2458	6.24E-04	2.61E-07	5.08E-07	2.71E-07	4.84E-07	6.2560E-04
519738.34	4258682.71	3598.09712	0.10853	0.22781	0.11217	0.22597	6.24E-04	2.55E-07	4.67E-07	2.63E-07	4.45E-07	6.2550E-04
519847.43	4258439.43	3596.37869	0.12052	0.45791	0.12438	0.4476	6.24E-04	2.83E-07	9.39E-07	2.92E-07	8.81E-07	6.2617E-04
519830.99	4258236.75	3580.65147	0.0767	0.40473	0.0768	0.39081	6.21E-04	1.80E-07	8.30E-07	1.80E-07	7.69E-07	6.2301E-04
519848.49	4258388.12	3580.44337	0.10923	0.4669	0.11225	0.45509	6.21E-04	2.56E-07	9.58E-07	2.64E-07	8.96E-07	6.2338E-04
519759.93	4258629.19	3576.90525	0.11176	0.25748	0.11618	0.25523	6.20E-04	2.62E-07	5.28E-07	2.73E-07	5.02E-07	6.2196E-04
519844.17	4258350.31	3574.7567	0.09931	0.45334	0.10139	0.44093	6.20E-04	2.33E-07	9.30E-07	2.38E-07	8.68E-07	6.2229E-04
519834.04	4258277.87	3574.40273	0.08337	0.41959	0.08385	0.406	6.20E-04	1.96E-07	8.61E-07	1.97E-07	7.99E-07	6.2202E-04
519789.65	4258561.19	3570.58477	0.11535	0.31005	0.11976	0.30527	6.19E-04	2.71E-07	6.36E-07	2.81E-07	6.01E-07	6.2109E-04
519799.57	4258541.75	3565.28315	0.1168	0.32988	0.12103	0.32463	6.18E-04	2.74E-07	6.77E-07	2.84E-07	6.39E-07	6.2026E-04
519779.73	4258580.62	3562.53845	0.11379	0.2915	0.11851	0.28746	6.18E-04	2.67E-07	5.98E-07	2.78E-07	5.66E-07	6.1962E-04
519843.81	4258448.23	3557.67199	0.12056	0.44538	0.1245	0.43567	6.17E-04	2.83E-07	9.13E-07	2.92E-07	8.58E-07	6.1941E-04
519848.04	4258413.68	3557.28045	0.11485	0.46308	0.11829	0.45208	6.17E-04	2.70E-07	9.50E-07	2.78E-07	8.90E-07	6.1938E-04
519747.42	4258656.67	3554.09694	0.10948	0.23993	0.11346	0.23793	6.16E-04	2.57E-07	4.92E-07	2.66E-07	4.68E-07	6.1793E-04
519840.98	4258333.79	3554.01108	0.09493	0.4428	0.09657	0.43022	6.16E-04	2.23E-07	9.08E-07	2.27E-07	8.47E-07	6.1863E-04
519809.48	4258522.31	3551.03593	0.11819	0.35156	0.1225	0.34576	6.16E-04	2.77E-07	7.21E-07	2.88E-07	6.81E-07	6.1788E-04
519830.73	4258261.65	3543.45299	0.08013	0.40843	0.08042	0.3948	6.15E-04	1.88E-07	8.38E-07	1.89E-07	7.77E-07	6.1659E-04
519769.81	4258600.06	3541.73759	0.11209	0.27406	0.11679	0.27107	6.14E-04	2.63E-07	5.62E-07	2.74E-07	5.34E-07	6.1593E-04
519837.72	4258317.45	3540.66997	0.09096	0.43318	0.09223	0.42028	6.14E-04	2.14E-07	8.88E-07	2.17E-07	8.27E-07	6.1626E-04
519829.32	4258483.44	3538.18745	0.12084	0.40169	0.1253	0.39399	6.14E-04	2.84E-07	8.24E-07	2.94E-07	7.76E-07	6.1586E-04
519819.4	4258502.88	3537.47111	0.11956	0.37541	0.12401	0.36883	6.14E-04	2.81E-07	7.70E-07	2.91E-07	7.26E-07	6.1563E-04
519840.19	4258457.03	3532.41746	0.12055	0.4334	0.1246	0.42425	6.14E-04	2.83E-07	8.89E-07	2.93E-07	8.35E-07	6.1498E-04
519832.94	4258474.64	3525.45211	0.12073	0.41172	0.12505	0.40362	6.11E-04	2.83E-07	8.44E-07	2.94E-07	7.95E-07	6.1369E-04
519834.4	4258301.26	3523.02316	0.08725	0.42351	0.08819	0.41029	6.11E-04	2.05E-07	8.69E-07	2.07E-07	8.08E-07	6.1314E-04
519836.57	4258465.84	3522.38442	0.12062	0.42225	0.12479	0.41364	6.11E-04	2.83E-07	8.66E-07	2.93E-07	8.14E-07	6.1320E-04
519759.89	4258619.5	3507.90104	0.11018	0.25843	0.11457	0.25611	6.08E-04	2.59E-07	5.30E-07	2.69E-07	5.04E-07	6.0999E-04
519741.06	4258665.38	3503.66993	0.10748	0.23219	0.11125	0.23028	6.08E-04	2.52E-07	4.76E-07	2.61E-07	4.53E-07	6.0914E-04
519827.36	4258245.58	3502.41414	0.07706	0.39617	0.07722	0.38271	6.07E-04	1.81E-07	8.13E-07	1.81E-07	7.53E-07	6.0944E-04
519843.58	4258376	3494.04002	0.10446	0.45113	0.10716	0.43972	6.06E-04	2.45E-07	9.25E-07	2.52E-07	8.66E-07	6.0831E-04
519844.45	4258422.41	3490.61464	0.11507	0.45054	0.11857	0.44023	6.05E-04	2.70E-07	9.24E-07	2.78E-07	8.67E-07	6.0777E-04
519844.93	4258396.98	3490.15044	0.1096	0.45435	0.1127	0.44338	6.05E-04	2.57E-07	9.32E-07	2.65E-07	8.73E-07	6.0768E-04
519789.61	4258551.49	3486.42193	0.11339	0.31099	0.1175	0.30618	6.05E-04	2.66E-07	6.38E-07	2.76E-07	6.03E-07	6.0649E-04
519779.69	4258570.93	3485.47186	0.11193	0.29264	0.11631	0.28838	6.05E-04	2.63E-07	6.00E-07	2.73E-07	5.68E-07	6.0624E-04
519830.36	4258286.82	3479.73459	0.0838	0.41014	0.08448	0.39706	6.04E-04	1.97E-07	8.41E-07	1.98E-07	7.82E-07	6.0556E-04
519799.53	4258532.05	3475.42276	0.11478	0.33057	0.11881	0.32539	6.03E-04	2.69E-07	6.78E-07	2.79E-07	6.41E-07	6.0466E-04
519769.77	4258590.36	3469.75195	0.11034	0.2754	0.11491	0.272	6.02E-04	2.59E-07	5.65E-07	2.70E-07	5.35E-07	6.0344E-04
519749.97	4258638.93	3468.59106	0.10812	0.24446	0.11215	0.24238	6.02E-04	2.54E-07	5.01E-07	2.63E-07	4.77E-07	6.0311E-04
519840.51	4258359.2	3467.07227	0.09977	0.44159	0.10208	0.43003	6.01E-04	2.34E-07	9.06E-07	2.40E-07	8.47E-07	6.0357E-04
519823.94	4258229.63	3461.66712	0.07425	0.38475	0.07434	0.37136	6.00E-04	1.74E-07	7.89E-07	1.75E-07	7.31E-07	6.0228E-04
519809.44	4258512.62	3458.90112	0.11613	0.35242	0.12034	0.34658	6.00E-04	2.73E-07	7.23E-07	2.83E-07	6.82E-07	6.0189E-04
519734.66	4258673.98	3454.06173	0.1055	0.22479	0.10903	0.22299	5.99E-04	2.48E-07	4.61E-07	2.56E-07	4.39E-07	6.0049E-04
519827.08	4258270.54	3453.61868	0.0805	0.39918	0.08094	0.38608	5.99E-04	1.89E-07	8.19E-07	1.90E-07	7.60E-07	6.0097E-04
519819.36	4258493.18	3447.56711	0.11745	0.37631	0.12179	0.36959	5.98E-04	2.76E-07	7.72E-07	2.86E-07	7.28E-07	6.0003E-04
519759.85	4258609.8	3442.80668	0.10863	0.25923	0.11291	0.25684	5.97E-04	2.55E-07	5.32E-07	2.65E-07	5.06E-07	5.9870E-04
519837.36	4258342.6	3442.74205	0.0953	0.43106	0.09721	0.41934	5.97E-04	2.24E-07	8.84E-07	2.28E-07	8.25E-07	5.9929E-04
519834.12	4258326.19	3434.25465	0.09137	0.42237	0.09291	0.41027	5.96E-04	2.15E-07	8.66E-07	2.18E-07	8.08E-07	5.9776E-04
519840.86	4258431.13	3433.35948	0.11517	0.43835	0.11873	0.42872	5.96E-04	2.70E-07	8.99E-07	2.79E-07	8.44E-07	5.9779E-04
519823.73	4258254.4	3422.75229	0.07744	0.38807	0.0777	0.375	5.94E-04	1.82E-07	7.96E-07	1.82E-07	7.38E-07	5.9556E-04
519830.82	4258309.95	3421.84187	0.08765	0.41314	0.08884	0.40068	5.94E-04	2.06E-07	8.47E-07	2.09E-07	7.89E-07	5.9555E-04
519743.7	4258647.82	3421.21408	0.1063	0.23656	0.11011	0.23458	5.93E-04	2.50E-07	4.85E-07	2.59E-07	4.62E-07	5.9485E-04
519779.65	4258561.23	3407.97734	0.11009	0.29362	0.11413	0.28922	5.91E-04	2.58E-07	6.02E-07	2.68E-07	5.69E-07	5.9280E-04
519841.37	4258405.63	3407.63991	0.10982	0.44195	0.11298	0.43177	5.91E-04	2.58E-07	9.06E-07	2.65E-07	8.50E-07	5.9332E-04
519749.93	4258629.24	3403.365	0.10665	0.24526	0.11066	0.24317	5.90E-04	2.50E-07	5.03E-07	2.60E-07	4.79E-07	5.9179E-04
519789.57	4258541.79	3402.40903	0.11148	0.31178	0.11536	0.30698	5.90E-04	2.62E-07	6.39E-07	2.71E-07	6.04E-07	5.9191E-04
519769.73	4258580.67	3399.34654	0.10861	0.27659	0.11293	0.27286	5.90E-04	2.55E-07	5.67E-07	2.65E-07	5.37E-07	5.9123E-04
519839.89	4258384.96	3393.95008	0.10479	0.43865	0.10761	0.42811	5.89E-04	2.46E-07	9.00E-07	2.53E-07	8.43E-07	5.9091E-04
519837.27	4258439.86	3389.57149	0.11519	0.42463	0.11881	0.41758	5.88E-04	2.70E-07	8.75E-07	2.79E-07	8.22E-07	5.9015E-04
519799.49	4258522.35	3386.87476	0.11282	0.33144	0.11677	0.32622	5.87E-04	2.65E-07	6.80E-07	2.74E-07	6.42E-07	5.8930E-04
519820.34	4258238.4	3385.43821	0.07456	0.37645	0.0747	0.36354	5.87E-04	1.75E-07	7.72E-07	1.75E-07	7.16E-07	5.8903E-04
519826.67	4258295.78	3381.11355	0.08421	0.40101	0.08514	0.38847	5.86E-04	1.98E-07	8.22E-07	2.00E-07	7.65E-07	5.8842E-04
519759.81	4258600.1	3376.9489	0.10699	0.26057	0.1113	0.25777	5.86E-04	2.51E-07	5.34E-07	2.61E-07	5.07E-07	5.8727E-04
519737.37	4258656.59	3372.5475	0.10444	0.22902	0.10805	0.22711	5.85E-04	2.45E-07	4.70E-07	2.54E-07	4.47E-07	5.8637E-04
519809.4	4258502.92	3369.51521	0.11413	0.35132	0.11826	0.3473	5.84E-04	2.68E-07	7.24E-07	2.78E-07	6.84E-07	5.8638E-04
519836.86	4258368.08	3367.5497	0.1002	0.43044	0.1027	0.41964	5.84E-04	2.35E-07	8.83E-07	2.41E-07	8.26E-07	5.8627E-04
519819.32	4258483.48	3363.12117	0.11539	0.37697	0.11957	0.37015	5.83E-04	2.71E-07	7.73E-07	2.81E-07	7.29E-07	5.8537E-04
519823.42	4258279.43	3362.48989	0.08088	0.39026	0.08152	0.37769	5.83E-04	1.90E-07	8.00E-07	1.91E-07	7.43E-07	5.8513E-04
519833.68	4258448.58	3360.26963	0.11518	0.41556	0.11889	0.40701	5.83E-04	2.70E-07	8.52E-07	2.79E-07	8.01E-07	5.8503E-04
519822.91	4258474.76	3348.99263	0.11534	0.38596	0.11942	0.37878	5.81E-04	2.71E-07	7.92E-07	2.80E-07	7.46E-07	5.8296E-04
519830.09	4258457.31	3344.92387	0.11521	0.40518	0.11904	0.39709	5.80E-04	2.70E-07	8.31E-07	2.79E-07	7.82E-07	5.8232E-04
519833.73	4258351.42	3344.58825	0.09582	0.42109	0.09797	0.41011	5.80E-04	2.25E-07	8.64E-07	2.30E-07	8.07E-07	5.8223E-04
519837.81	4258414.29	3343.93242	0.11011	0.43103	0.11336	0.42135	5.80E-04	2.59E-07	8.84E-07	2.66E-07	8.29E-07	5.8223E-04
519826.1	4258466.03	3342.9893	0.11531	0.39546	0.11927	0.38785	5.80E-04	2.71E-07	8.11E-07	2.80E-07	7.63E-07	5.8195E-04
519749.89	4258619.54	3342.37489	0.1052	0.24609	0.10919	0.24394	5.80E-04	2.47E-07	5.05E-07	2.56E-07	4.80E-07	5.8125E-04
519820.1	4258263.23	3338.1905	0.07779	0.37967	0.0782	0.36709	5.79E-04	1.83E-07	7.79E-07	1.84E-07	7.23E-07	5.8086E-04
519830.52	4258334.94	3331.32794	0.09178	0.41205	0.09358	0.40072	5.78E-04	2.15E-07	8.45E-07	2.20E-07	7.89E-07	5.7987E-04
519779.61	4258551.53	3330.14848	0.10829	0.29444	0.11205	0.29	5.78E-04	2.54E-07	6.04E-07	2.63E-07	5.71E-07	5.7929E-04
519769.69	4258570.97	3328.89253	0.1069	0.27757	0.11089	0.27363	5.77E-04	2.51E-07	5.69E-07

519779.53	4258532.14	3173.33058	0.10481	0.29567	0.10823	0.29124	5.50E-04	2.46E-07	6.06E-07	2.54E-07	5.73E-07	5.5208E-04
519828.83	4258411.85	3169.94453	0.1056	0.40579	0.10867	0.39698	5.50E-04	2.48E-07	8.32E-07	2.55E-07	7.81E-07	5.5193E-04
519749.77	4258590.45	3167.13969	0.10076	0.24899	0.10456	0.24602	5.49E-04	2.37E-07	5.11E-07	2.45E-07	4.84E-07	5.5080E-04
519812.84	4258280.88	3162.95795	0.07847	0.36325	0.07929	0.35176	5.49E-04	1.84E-07	7.45E-07	1.86E-07	6.92E-07	5.5041E-04
519826.47	4258369.05	3157.39343	0.09657	0.40087	0.09904	0.39125	5.48E-04	2.27E-07	8.22E-07	2.33E-07	7.70E-07	5.4969E-04
519789.44	4258512.7	3152.68636	0.10605	0.31375	0.10964	0.30889	5.47E-04	2.49E-07	6.43E-07	2.57E-07	6.08E-07	5.4858E-04
519729.97	4258639.02	3147.82864	0.09872	0.2226	0.10202	0.22077	5.46E-04	2.32E-07	4.57E-07	2.40E-07	4.35E-07	5.4734E-04
519809.51	4258264.7	3143.23386	0.0755	0.35301	0.07606	0.34153	5.45E-04	1.77E-07	7.24E-07	1.79E-07	6.72E-07	5.4693E-04
519823.32	4258352.44	3137.75841	0.09252	0.39243	0.09471	0.38256	5.44E-04	2.17E-07	8.05E-07	2.22E-07	7.53E-07	5.4623E-04
519739.85	4258609.88	3137.15306	0.09909	0.23539	0.10281	0.23319	5.44E-04	2.33E-07	4.83E-07	2.41E-07	4.59E-07	5.4554E-04
519799.36	4258493.26	3132.87642	0.10729	0.33341	0.11104	0.32798	5.43E-04	2.52E-07	6.84E-07	2.61E-07	6.46E-07	5.4523E-04
519820.1	4258336.02	3123.69275	0.08871	0.38369	0.0906	0.37355	5.42E-04	2.08E-07	7.87E-07	2.13E-07	7.35E-07	5.4373E-04
519759.65	4258561.31	3118.09684	0.10063	0.26437	0.10398	0.26054	5.41E-04	2.36E-07	5.42E-07	2.44E-07	5.13E-07	5.4236E-04
519825.14	4258420.82	3115.79065	0.1057	0.39532	0.10883	0.38703	5.40E-04	2.48E-07	8.11E-07	2.55E-07	7.62E-07	5.4250E-04
519769.57	4258541.88	3112.33325	0.1019	0.27971	0.10515	0.27556	5.40E-04	2.39E-07	5.74E-07	2.47E-07	5.42E-07	5.4142E-04
519825.89	4258394.74	3111.14301	0.10112	0.39892	0.10393	0.38998	5.40E-04	2.37E-07	8.18E-07	2.44E-07	7.68E-07	5.4168E-04
519749.73	4258580.75	3108.54853	0.09928	0.24991	0.10286	0.24664	5.39E-04	2.33E-07	5.13E-07	2.41E-07	4.86E-07	5.4064E-04
519723.65	4258647.79	3102.68024	0.09709	0.21574	0.1002	0.21398	5.38E-04	2.28E-07	4.42E-07	2.35E-07	4.21E-07	5.3947E-04
519729.93	4258629.32	3096.78987	0.09746	0.22321	0.10076	0.22135	5.37E-04	2.29E-07	4.58E-07	2.37E-07	4.36E-07	5.3848E-04
519779.49	4258522.44	3094.79419	0.10313	0.29623	0.10648	0.29177	5.37E-04	2.42E-07	6.08E-07	2.50E-07	5.74E-07	5.3845E-04
519739.81	4258600.19	3084.94291	0.09782	0.23626	0.10139	0.23377	5.35E-04	2.30E-07	4.85E-07	2.38E-07	4.60E-07	5.3648E-04
519815.62	4258322.63	3083.06096	0.08527	0.37205	0.08692	0.36181	5.35E-04	2.00E-07	7.63E-07	2.04E-07	7.12E-07	5.3662E-04
519812.45	4258306.09	3081.34338	0.08196	0.3642	0.08331	0.35355	5.34E-04	1.92E-07	7.47E-07	1.96E-07	6.96E-07	5.3628E-04
519809.21	4258289.7	3074.06559	0.07881	0.35552	0.07987	0.34461	5.33E-04	1.85E-07	7.29E-07	1.88E-07	6.78E-07	5.3496E-04
519822.85	4258377.86	3073.02504	0.09686	0.39122	0.09943	0.38219	5.33E-04	2.27E-07	8.02E-07	2.33E-07	7.52E-07	5.3502E-04
519789.4	4258503	3071.90012	0.10435	0.31423	0.10789	0.30933	5.33E-04	2.45E-07	6.44E-07	2.53E-07	6.09E-07	5.3456E-04
519821.45	4258429.78	3071.88207	0.10568	0.38505	0.10886	0.37729	5.33E-04	2.48E-07	7.90E-07	2.56E-07	7.43E-07	5.3484E-04
519805.91	4258273.47	3058.4204	0.0758	0.34539	0.07657	0.33446	5.30E-04	1.78E-07	7.08E-07	1.80E-07	6.58E-07	5.3219E-04
519799.32	4258483.56	3054.96761	0.10555	0.33383	0.10921	0.32829	5.30E-04	2.48E-07	6.85E-07	2.56E-07	6.46E-07	5.3171E-04
519759.61	4258551.61	3050.95794	0.09908	0.26497	0.10221	0.26108	5.29E-04	2.33E-07	5.43E-07	2.40E-07	5.14E-07	5.3070E-04
519819.72	4258361.19	3049.52275	0.09284	0.38324	0.09516	0.374	5.29E-04	2.18E-07	7.86E-07	2.23E-07	7.36E-07	5.3089E-04
519749.69	4258571.05	3049.34233	0.09781	0.25068	0.10112	0.24719	5.29E-04	2.30E-07	5.14E-07	2.37E-07	4.87E-07	5.3036E-04
519729.89	4258619.62	3048.95626	0.09622	0.22384	0.09951	0.22191	5.28E-04	2.26E-07	4.59E-07	2.34E-07	4.37E-07	5.3018E-04
519822.23	4258403.63	3045.84909	0.1013	0.38899	0.10418	0.38057	5.28E-04	2.38E-07	7.98E-07	2.45E-07	7.49E-07	5.3032E-04
519817.76	4258438.75	3041.44003	0.10562	0.3753	0.10888	0.36796	5.28E-04	2.48E-07	7.70E-07	2.56E-07	7.24E-07	5.2952E-04
519769.53	4258532.18	3038.49978	0.10031	0.28018	0.10344	0.27602	5.27E-04	2.35E-07	5.75E-07	2.43E-07	5.43E-07	5.2861E-04
519803.01	4258474.6	3038.30511	0.10561	0.34146	0.10922	0.33562	5.27E-04	2.48E-07	7.00E-07	2.56E-07	6.61E-07	5.2885E-04
519739.77	4258590.49	3032.6857	0.09645	0.23711	0.09989	0.23432	5.26E-04	2.26E-07	4.86E-07	2.35E-07	4.61E-07	5.2741E-04
519816.52	4258344.71	3029.49519	0.08899	0.37435	0.09103	0.36494	5.25E-04	2.09E-07	7.68E-07	2.14E-07	7.18E-07	5.2736E-04
519814.08	4258447.71	3024.75443	0.10559	0.3662	0.10894	0.35925	5.25E-04	2.48E-07	7.51E-07	2.56E-07	7.07E-07	5.2659E-04
519806.7	4258465.64	3024.00925	0.10558	0.3493	0.10912	0.34313	5.25E-04	2.48E-07	7.16E-07	2.56E-07	6.75E-07	5.2640E-04
519810.39	4258456.67	3018.51572	0.10555	0.35747	0.10899	0.35091	5.24E-04	2.48E-07	7.33E-07	2.56E-07	6.91E-07	5.2548E-04
519779.44	4258512.74	3016.54848	0.10151	0.29669	0.1048	0.29219	5.23E-04	2.38E-07	6.08E-07	2.46E-07	5.75E-07	5.2487E-04
519719.97	4258639.06	3007.03079	0.0945	0.21269	0.09748	0.21097	5.22E-04	2.22E-07	4.36E-07	2.29E-07	4.15E-07	5.2286E-04
519729.85	4258609.93	3001.78637	0.09495	0.22455	0.09825	0.22244	5.21E-04	2.23E-07	4.61E-07	2.31E-07	4.38E-07	5.2200E-04
519819.22	4258386.68	2997.44564	0.09709	0.38198	0.09974	0.37341	5.20E-04	2.28E-07	7.83E-07	2.34E-07	7.35E-07	5.2187E-04
519789.36	4258493.3	2993.61313	0.1027	0.31466	0.10619	0.30967	5.19E-04	2.41E-07	6.45E-07	2.49E-07	6.10E-07	5.2097E-04
519818.57	4258412.51	2991.91503	0.10142	0.37941	0.10437	0.37145	5.19E-04	2.38E-07	7.78E-07	2.45E-07	7.31E-07	5.2093E-04
519808.79	4258314.97	2988.9146	0.08227	0.35568	0.08385	0.34573	5.18E-04	1.93E-07	7.29E-07	1.97E-07	6.81E-07	5.2021E-04
519749.65	4258561.35	2988.21505	0.09636	0.25132	0.0994	0.24769	5.18E-04	2.26E-07	5.15E-07	2.33E-07	4.88E-07	5.1975E-04
519811.94	4258331.59	2987.52236	0.08557	0.36302	0.08741	0.35352	5.18E-04	2.01E-07	7.45E-07	2.05E-07	6.96E-07	5.2002E-04
519805.58	4258298.53	2984.91734	0.07913	0.34756	0.08042	0.3373	5.18E-04	1.86E-07	7.13E-07	1.89E-07	6.64E-07	5.1947E-04
519759.57	4258541.92	2982.55918	0.09757	0.26544	0.10053	0.26153	5.17E-04	2.29E-07	5.44E-07	2.36E-07	5.15E-07	5.1884E-04
519739.73	4258580.79	2978.40776	0.09507	0.23796	0.09832	0.23485	5.17E-04	2.23E-07	4.88E-07	2.31E-07	4.62E-07	5.1800E-04
519802.3	4258282.24	2973.82093	0.07611	0.33807	0.0771	0.32771	5.16E-04	1.79E-07	6.93E-07	1.81E-07	6.45E-07	5.1749E-04
519816.12	4258369.94	2966.7726	0.0931	0.37415	0.09551	0.36548	5.15E-04	2.19E-07	7.67E-07	2.24E-07	7.19E-07	5.1650E-04
519769.49	4258522.48	2964.2809	0.09876	0.28059	0.10182	0.27642	5.14E-04	2.32E-07	5.75E-07	2.39E-07	5.44E-07	5.1573E-04
519719.93	4258629.36	2961.32865	0.09332	0.21322	0.09632	0.21146	5.14E-04	2.19E-07	4.37E-07	2.26E-07	4.16E-07	5.1493E-04
519729.81	4258600.23	2954.48878	0.09368	0.22532	0.09693	0.22294	5.12E-04	2.20E-07	4.62E-07	2.28E-07	4.39E-07	5.1379E-04
519812.95	4258353.4	2948.39118	0.08935	0.36643	0.09154	0.35753	5.11E-04	2.10E-07	7.52E-07	2.15E-07	7.04E-07	5.1327E-04
519814.92	4258421.4	2945.97962	0.10144	0.36994	0.10443	0.36246	5.11E-04	2.38E-07	7.59E-07	2.45E-07	7.13E-07	5.1292E-04
519779.4	4258503.04	2939.60021	0.09994	0.29705	0.10319	0.29251	5.10E-04	2.35E-07	6.09E-07	2.42E-07	5.76E-07	5.1152E-04
519815.59	4258395.49	2931.53107	0.09727	0.37282	0.09998	0.36473	5.08E-04	2.28E-07	7.65E-07	2.35E-07	7.18E-07	5.1041E-04
519749.61	4258551.66	2925.80423	0.09493	0.25181	0.09775	0.24812	5.07E-04	2.23E-07	5.16E-07	2.29E-07	4.88E-07	5.0892E-04
519739.69	4258571.09	2923.81192	0.09371	0.23862	0.0967	0.2353	5.07E-04	2.20E-07	4.89E-07	2.27E-07	4.63E-07	5.0852E-04
519789.32	4258483.61	2918.87987	0.10111	0.31498	0.10452	0.30989	5.06E-04	2.37E-07	6.46E-07	2.45E-07	6.10E-07	5.0801E-04
519719.89	4258619.66	2917.92442	0.09215	0.21379	0.09517	0.21192	5.06E-04	2.16E-07	4.38E-07	2.23E-07	4.17E-07	5.0740E-04
519759.53	4258532.22	2913.08694	0.0961	0.26583	0.09895	0.2619	5.05E-04	2.26E-07	5.45E-07	2.32E-07	5.16E-07	5.0678E-04
519811.26	4258430.29	2910.74808	0.10137	0.36078	0.10442	0.35373	5.05E-04	2.38E-07	7.40E-07	2.45E-07	6.96E-07	5.0678E-04
519729.77	4258590.53	2906.49996	0.0924	0.22609	0.09554	0.2234	5.04E-04	2.17E-07	4.64E-07	2.24E-07	4.40E-07	5.0546E-04
519792.98	4258474.72	2902.46025	0.10121	0.32189	0.10462	0.31655	5.03E-04	2.38E-07	6.60E-07	2.46E-07	6.23E-07	5.0519E-04
519808.26	4258340.54	2900.87464	0.0859	0.35497	0.08791	0.34605	5.03E-04	2.02E-07	7.28E-07	2.06E-07	6.81E-07	5.0496E-04
519801.95	4258307.35	2896.45383	0.07942	0.33963	0.08092	0.33004	5.02E-04	1.86E-07	6.97E-07	1.90E-07	6.50E-07	5.0410E-04
519805.14	4258323.86	2895.43434	0.08253	0.34707	0.08429	0.33786	5.02E-04	1.94E-07	7.12E-07	1.98E-07	6.65E-07	5.0397E-04
519798.69	4258291	2893.4263	0.07646	0.33175	0.0777	0.32187	5.02E-04	1.80E-07	6.80E-07	1.82E-07	6.34E-07	5.0353E-04
519812.52	4258378.69	2891.97589	0.09332	0.36556	0.09581	0.35737	5.02E-04	2.19E-07	7.50E-07	2.25E-07	7.03E-07	5.0350E-04
519769.44	4258512.78	2890.08566	0.09726	0.28092	0.10027	0.27672	5.01E-04	2.28E-07	5.76E-07	2.35E-07	5.45E-07	5.0286E-04
519807.6	4258439.17	2889.96733	0.10136	0.35234	0.10448	0.34565	5.01E-04	2.38E-07	7.23E-07	2.45E-07	6.80E-07	5.0314E-04
519796.64	4258465.83	2886.48232	0.10124	0.32901	0.1046	0.32337	5.01E-04	2.38E-07	6.75E-07	2.46E-07	6.37E-07	5.0244E-04
519803.95	4258448.06	2879.66366	0.10133	0.34425	0.10454	0.33792	4.99E-04	2.38E-07	7.06E-07	2.45E-07	6.65E-07	5.0132E-04
519800.29	4258456.95	2879.60006	0.10131	0.33653	0.1046	0.33055	4.99E-04	2.38E-07	6.90E-07	2.46E-07	6.51E-07	5.0128E-04
519811.97	4258404.31	2875.9916	0.0974	0.36403	0.10017	0.35637	4.99E-04	2.29E-07	7.47E-07	2.35E-07	7.02E-07	5.0074E-04
519719.85	4258609.97	2875.95867	0.09098	0.2144	0.09399	0.21237	4.99E-04	2.14E-07	4.40E-07	2.21E-07	4.18E-07	5.0011E-04
519739.65	4258561.4	2867.32588	0.09236	0.23915	0.09511	0.2357	4.97E-04	2.17E-07	4.90E-07	2.23E-07	4.64E-07	4.9872E-04
519779.36	4258493.35	2864.76398	0.09842	0.29738	0.10163	0.29276	4.97E-04	2.31E-07	6.10E-07	2.39E-07	5.76E-07	4.9854E-04
519809.17	4258362.09	2864.31754	0.08955	0.35764	0.09181	0.34934	4.97E-04	2.10E-07	7.33E-07	2.16E-07	6.88E-07	4.9865E-04
519749.57	4258541.96	2861.71573	0.09352	0.25219	0.0962	0.24848	4.96E-04	2.20E-07	5.17E-07	2.26E-07	4.89E-07	4.9780E-04
519729.73	4258580.83	2857.42892	0.09112	0.22679	0.09407	0.22382	4.96E-04	2.14E-07	4.65E-07	2.21E-07	4.41E-07	4.9695E-04
519759.49	4258522.52	2842.90424	0.09467	0.26611	0.09745	0.26218	4.93E-04	2.22E-07	5.46E-07	2.29E-07	5.16E-07	4.9460E-04
519719.81	4258600.27	2832.99718	0.0898	0.21508	0.09277	0.21278	4.91E-04	2.11E-07	4.41E-07	2.18E-07	4.19E-07	4.9266E-04
519808.34	4258413.13	2830.53639	0.09745	0.35539	0.10028	0.34814	4.91E-04	2.29E-07	7.29E-07	2.35E-07	6.85E-07	4.9282E-04
519808.92	4258387.44	2825.80695	0.09349	0.35732	0.09605	0.34953	4.90E-04	2.19E-07	7.33E-07	2.25E-07	6.88E-07	4.9199E-04
519804.57	4258349.49	2817.66144	0.08617	0.34695	0.0883	0.33858	4.89E-04	2.02E-07	7.12E-07	2.07E-07	6.66E-07	4.9050E-04
519769.4	4258503.09	2816.88657	0.09581	0.2812	0.09878	0.27696	4.89E-04	2.25E-07	5.77E-07	2.32E-07	5.45E-07	4.9015E-04
519795.08	4258299.77	2809.28941	0.07674	0.32457	0.07818	0.31531	4.87E-04	1.80E-07	6.66E-07	1.84E-07	6.21E-07	4.8891E-04
519798.31	4258316.18	2809.10817	0.07968	0.33198	0.08136	0.32303	4.87E-04	1.87E-07	6.81E-07	1.91E-07	6.36E-07	4.8892E-04
519739.61	4258551.7	2808.96413	0.09103	0.23955	0.09358	0.23604	4.87E-04	2.14E-07	4.91E-07	2.20E-07	4.65E-07	4.8859E-04
519801.48	4258332.75	2808.41602	0.08279	0.33915	0.08469	0.33057	4.87E-04	1.94E-07	6.96E-07	1.99E-07	6.51E-07	4.8885E-04
519729.69	4258571.14	2806.97181	0.08986	0.22736	0.09257	0.22419	4.87E-04	2.11E-07	4.66E-07	2.17E-07	4.41E-07	4.8819E-04
519749.53	4258532.26	2796.19653	0.09216	0.25249	0.09473	0.24877	4.85E-04	2.16E-07	5.18E-07	2.22E-07	4.90E-07	4.8643E-04
519805.8	4258370.78	2792.89069	0.08978	0.34987	0.09212	0.34199	4.84E-04	2.11E-07	7.18E-07	2.16E-07	6.73E-07	4.8623E-04
519779.32	4258483.65	2792.8555	0.09694	0.29762	0.10011	0.2929	4.84E-04	2.28E-07	6.10E-07	2.35E-07	5.77E-07	4.8606E-04
519804.71	4258421.94	2792.19074	0.09742	0.34691	0.10029	0.34009	4.84E-04	2.29E-07	7.11E-07	2.35E-07	6.69E-07	4.8614E-04
519719.77	4258590.57	2789.38747	0.08861	0.21575	0.09147	0.21316	4.84E-04	2.08E-07	4.42E-07	2.15E-07	4.20E-07	4.8509E-04
519782.95	4258474.83	2775.18149	0.09708	0.30388	0.10026	0.29895	4.81E-04	2.28E-07	6.23E-07	2.35E-07	5.88E-07	4.8302E-04
519759.44	4258512.82	2772.40317	0.09328	0.26633	0.09601	0.26239	4.81E-04	2.19E-07	5.46E-07	2.25E-07	5.17E-07	4.8237E-04
519805.32	4258396.19	2768.95893	0.09362	0.34922	0.09623	0.34182	4.80E-04	2.20E-07	7.16E-07	2.26E-07	6.73E-07	4.8210E-04
519801.09	4258430.76	2767.76415	0.09741	0.33909	0.10035	0.3326	4.80E-04	2.29E-07	6.95E-07	2.36E-07	6.55E-07	4.8187E-04
519786.58	4258466.02	2759.76419	0.09716	0.31037	0.10033	0.30516	4.79E-04	2.28E-07	6.37E-07	2.36E-07	6.01E-07	4.8037E-04
519729.65	4258561.44	2754.63201	0.08861	0.22779	0.09108	0.2245	4.78E-04	2.08E-07	4.67E-07	2.14E-07	4.42E-07	4.7911E-04
519797.46	4258439.57	2751.9701	0.09735	0.33142	0.10035	0.32528	4.77E-04	2.29E-07	6.80E-07	2.36E-07	6.40E-07	4.7910E-04
519739.57	4258542	2748.93208	0.08973	0.23984	0.09213	0.23631	4.77E-04	2.11E-07	4.92E-07	2.16E-07	4.65E-07	4.7817E-04
519790.2	4258457.2	2748.34177	0.0972	0.31702	0.10032	0.31153	4.77E-04	2.28E-07	6.50E-07	2.36E-07	6.13E-07	4.7841E-04
519769.36	4258493.39	2745.20507	0.09439	0.28143	0.09735	0.27712	4.76E-04	2.22E-07	5.77E-07	2.29E-07	5.46E-07	4.7772E-04
519793.83	4258448.39	2744.8329	0.09725	0.32397	0.10031	0.31816	4.76E-04	2.28E-07	6.64E-07	2.35E-07	6.26E-07	4.7783E-04
519719.73	4258580.87	2743.75184	0.08741	0.21637	0.0901	0.2135	4.76E-04	2.05E-07	4.44E-07	2.12E-07	4.20E-07	4.7717E-04
519800.89	4258358.44	2738.78764	0.08639	0.33904	0.08859	0.33117	4.75E-04	2.03E-07	6.95E-07	2.08E-07	6.52E-07	4.7679E-04
519749.49	4258522.56	2729.76505	0.09083	0.25268	0.09334	0.24896	4.73E-04	2.13E-07	5.18E-07	2.19E-07	4.90E-07	4.7491E-04
519797.82	4258341.63	2728.42498	0.08306	0.33186	0.08507	0.32378	4.73E-04	1.95E-07	6.81E-07	2.00E-07	6.37E-07	4.7495E-04
519802.22	4258379.46	2727.82757	0.08996	0.34239	0.09237	0.33488	4.73E-04	2.11E-07	7.02E-07	2.17E-07	6.59E-07	4.7492E-04
519791.47	4258308.54	2726.87924	0.07699	0.31763	0.07861	0.30897	4.73E-04	1.81E-07	6.51E-07	1.85E-07	6.08E-07	4.7450E-04
519794.68	4258325	2724.28544	0.07991	0.32449	0.08173	0.31617	4.73E-04	1.88E-07	6.66E-07	1.92E-07	6.22E-07	4.7418E-04
519801.72	4258404.94	2721.73848	0.09368	0.34127	0.09635	0.33425	4.72E-04	2.20E-07	7.00E-07	2.26E-07	6.58E-07	4.7388E-04
519759.4	4258503.13	2702.59159	0.09192	0.26656	0.09464	0.26256	4.69E-04	2.16E-07	5.47E-07	2.22E-07	5.17E-07	4.7025E-04
519729.61	4258551.74	2700.05906	0.08737	0.2281	0.08965	0.22476	4.68E-04	2.05E-07	4.68E-07	2.10E-07	4.42E-07	4.6964E-04
519719.69	4258571.18	2696.82986	0.08623	0.21687	0.0887	0.2138	4.68E-04	2.02E-07	4.45E-07	2.08E-07	4.21E-07	4.6903E-04
519739.53	4258532.3	2687.08403	0.08845	0.24006	0.09077	0.23652	4.66E-04	2.08E-07	4.92E-07	2.13E-07	4.66E-07	4.6744E-04
519798.12	4258413.69	2682.66609	0.09369	0.33349	0.09639	0.32684	4.66E-04	2.20E-07	6.84E-07	2.26E-07	6.43E-07	4.6707E-04
519769.32	4258483.69	2676.02857	0.09302	0.28159	0.09595	0.27719	4.64E-04	2.18E-07	5.78E-07	2.25E-07	5.46E-07	4.6571E-04
519798.65	4258388.15	2670.26624	0.09007	0.33493	0.09254	0.32778	4.63E-04	2.11E-07	6.87E-07	2.17E-07	6.45E-07	4.6491E-04
519797.21	4258367.39	2667.46098	0.08657	0.33157	0.08884	0.32413	4.63E-04	2.03E-07	6.80E-07	2.09E-07	6.38E-07	4.6439E-04
519749.44	4258512.87	2662.79248	0.08953	0.25281	0.09201	0.24907	4.62E-04	2.10E-07	5.18E-07	2.16E-07	4.90E-07	4.6328E-04
519772.92	4258474.94	2657.33289	0.09317	0.28722	0.09613	0.28265	4.61E-04	2.19E-07	5.89E-07	2.26E-07	5.56E-07	4.6249E-04
519794.17	4258350.52	2653.82894	0.08329	0.32487	0.08569	0.31723	4.60E-04	1.96E-07	6.66E-07	2.00E-07	6.24E-07	4.6198E-04
519794.52	4258422.44	2652.1601	0.09363	0.32594	0.09637	0.31966	4.60E-04	2.20E-07	6.68E-07	2.26E-07	6.29E-07	4.6175E-04
519719.65	4258561.48	2648.29639	0.08507	0.21721	0.08731	0.21404	4.59E-04	2.00E-07	4.45E-07	2.05E-07	4.21E-07	4.6061E-04
519787.87	4258317.31	2647.03964	0.07723	0.31086	0.07898	0.30276	4.59E-04	1.81E-07	6.38E-07	1.85E-07	5.96E-07	4.6072E-04
519791.05	4258333.83	2645.42798	0.08014	0.31756	0.08206	0.30976	4.59E-04	1.88E-07	6.51E-07	1.93E-07	6.10E-07	4.6048E-04
519729.57	4258542.04	2643.51711	0.08616	0.22831	0.0883	0.22495	4.59E-04	2.02E-07	4.68E-07	2.07E-07	4.43E-07	4.5983E-04
519776.52	4258466.19	2638.99566	0.09323	0.29295	0.09619	0.28815	4.58E-04	2.19E-07	6.01E-07	2.26E-07	5.67E-07	4.5933E-04
519759.36	4258493.43	2633.91542	0.09061	0.26674	0.09332	0.26267	4.57E-04	2.13E-07	5.47E-07	2.19E-07	5.17E-07	4.5834E-04
519790.92	4258431.19	2632.59872	0.09356	0.3188	0.09636	0.31283	4.57E-04	2.20E-07	6.54E-07	2.26E-07	6.16E-07	4.5833E-04
519780.12	4258457.44	2627.22227	0.09334	0.29909	0.09627	0.29402	4.56E-04	2.19E-07	6.13E-07	2.26E-07	5.79E-07	4.5732E-04
519739.49	4258522.61	2624.15856	0.08722	0.2402	0.08948	0.23664	4.56E-04	2.05E-07	4.93E-07	2.10E-07	4.66E-07	4.5652E-04
519787.32	4258439.94	2623.05705	0.0935	0.31202	0.09636	0.30635	4.55E-04	2.20E-07	6.40E-07	2.26E-07	6.03E-07	4.5665E-04
519783.72	4258448.69	2622.52095	0.09345	0.30554	0.09636	0.30016	4.55E-04	2.19E-07	6.27E-07	2.26E-07	5.91E-07	4.5653E-04
519795.07	4258396.84	2621.38852	0.09014	0.32763	0.09266	0.32083	4.55E-04	2.12E-07	6.72E-07	2.18E-07	6.32E-07	4.5640E-04
519793.52	4258376.35	2603.58669	0.08671	0.32449	0.08904	0.31737	4.52E-04	2.04E-07	6.66E-07

519771.42	4258430.06	2399.8724	0.0866	0.28472	0.08911	0.2795	4.16E-04	2.03E-07	5.84E-07	2.09E-07	5.50E-07	4.1779E-04
519764.06	4258447.97	2399.81748	0.08638	0.27328	0.08894	0.26859	4.16E-04	2.03E-07	5.60E-07	2.09E-07	5.29E-07	4.1774E-04
519767.74	4258439.01	2395.58991	0.08648	0.27884	0.08901	0.27388	4.16E-04	2.03E-07	5.72E-07	2.09E-07	5.39E-07	4.1703E-04
519776.53	4258369.13	2382.50395	0.08067	0.292	0.08278	0.28569	4.13E-04	1.89E-07	5.99E-07	1.94E-07	5.62E-07	4.1478E-04
519719.45	4258512.99	2374.25395	0.07957	0.21762	0.08134	0.21436	4.12E-04	1.87E-07	4.46E-07	1.91E-07	4.22E-07	4.1305E-04
519775.89	4258394.95	2372.55906	0.08365	0.29165	0.08593	0.28575	4.12E-04	1.96E-07	5.98E-07	2.02E-07	5.62E-07	4.1307E-04
519739.32	4258483.82	2371.17797	0.08259	0.2403	0.08484	0.23657	4.11E-04	1.94E-07	4.93E-07	1.99E-07	4.66E-07	4.1262E-04
519773.44	4258352.38	2368.06425	0.07786	0.28625	0.07985	0.27979	4.11E-04	1.83E-07	5.87E-07	1.87E-07	5.51E-07	4.1224E-04
519742.98	4258474.93	2350.48331	0.08277	0.24486	0.0851	0.24098	4.08E-04	1.94E-07	5.02E-07	2.00E-07	4.74E-07	4.0905E-04
519729.36	4258493.56	2343.09279	0.08055	0.22837	0.08253	0.22493	4.06E-04	1.89E-07	4.68E-07	1.94E-07	4.43E-07	4.0769E-04
519772.23	4258403.84	2342.16965	0.08365	0.28582	0.08596	0.28018	4.06E-04	1.96E-07	5.86E-07	2.02E-07	5.52E-07	4.0777E-04
519772.9	4258377.96	2333.6632	0.08071	0.28615	0.08285	0.28012	4.05E-04	1.89E-07	5.87E-07	1.95E-07	5.51E-07	4.0629E-04
519746.64	4258466.04	2332.51522	0.08295	0.24945	0.08533	0.24542	4.05E-04	1.95E-07	5.12E-07	2.00E-07	4.83E-07	4.0595E-04
519768.57	4258412.72	2319.96276	0.08361	0.28014	0.08595	0.27474	4.02E-04	1.96E-07	5.75E-07	2.02E-07	5.41E-07	4.0390E-04
519750.29	4258457.16	2317.139	0.08311	0.25415	0.08552	0.24994	4.02E-04	1.95E-07	5.21E-07	2.01E-07	4.92E-07	4.0331E-04
519719.4	4258503.29	2316.07056	0.07855	0.21749	0.08032	0.21422	4.02E-04	1.84E-07	4.46E-07	1.89E-07	4.22E-07	4.0295E-04
519769.83	4258361.15	2309.39887	0.07789	0.2803	0.0799	0.27417	4.01E-04	1.83E-07	5.75E-07	1.88E-07	5.40E-07	4.0204E-04
519753.95	4258448.27	2305.51174	0.08323	0.2589	0.08564	0.25448	4.00E-04	1.95E-07	5.31E-07	2.01E-07	5.01E-07	4.0131E-04
519764.92	4258421.61	2303.79627	0.08351	0.27442	0.08586	0.2693	4.00E-04	1.96E-07	5.63E-07	2.02E-07	5.30E-07	4.0107E-04
519757.6	4258439.38	2297.40502	0.08332	0.26385	0.08572	0.2592	3.98E-04	1.96E-07	5.41E-07	2.01E-07	5.10E-07	3.9992E-04
519761.26	4258430.5	2296.18568	0.0834	0.26897	0.08577	0.26409	3.98E-04	1.96E-07	5.52E-07	2.01E-07	5.20E-07	3.9973E-04
519769.27	4258386.78	2293.43835	0.08074	0.28058	0.08291	0.2748	3.98E-04	1.90E-07	5.75E-07	1.95E-07	5.41E-07	3.9929E-04
519729.32	4258483.86	2283.80703	0.07952	0.22826	0.08152	0.22477	3.96E-04	1.87E-07	4.68E-07	1.91E-07	4.42E-07	3.9740E-04
519732.95	4258475.03	2262.28749	0.07969	0.23247	0.08178	0.22882	3.92E-04	1.87E-07	4.77E-07	1.92E-07	4.50E-07	3.9369E-04
519765.63	4258395.61	2260.89422	0.08074	0.27516	0.08292	0.26962	3.92E-04	1.90E-07	5.64E-07	1.95E-07	5.31E-07	3.9362E-04
519766.22	4258369.92	2260.71855	0.07795	0.27495	0.07998	0.26907	3.92E-04	1.83E-07	5.64E-07	1.88E-07	5.30E-07	3.9358E-04
519719.36	4258493.6	2258.25475	0.07756	0.21731	0.07933	0.21403	3.92E-04	1.82E-07	4.46E-07	1.86E-07	4.21E-07	3.9292E-04
519736.59	4258466.21	2243.60563	0.07987	0.23672	0.08203	0.23292	3.89E-04	1.88E-07	4.85E-07	1.93E-07	4.59E-07	3.9047E-04
519762	4258404.43	2234.38784	0.08068	0.26972	0.08287	0.26444	3.88E-04	1.89E-07	5.53E-07	1.95E-07	5.21E-07	3.8900E-04
519740.22	4258457.38	2227.21575	0.08004	0.24107	0.08226	0.23709	3.86E-04	1.88E-07	4.94E-07	1.93E-07	4.67E-07	3.8764E-04
519762.61	4258378.68	2220.06425	0.07799	0.26988	0.08004	0.26423	3.85E-04	1.83E-07	5.54E-07	1.88E-07	5.20E-07	3.8650E-04
519758.37	4258413.26	2214.66665	0.08057	0.26434	0.08277	0.25933	3.84E-04	1.89E-07	5.42E-07	1.94E-07	5.10E-07	3.8556E-04
519743.85	4258448.56	2214.54633	0.08019	0.24554	0.08244	0.24136	3.84E-04	1.88E-07	5.04E-07	1.94E-07	4.75E-07	3.8546E-04
519747.48	4258439.73	2206.4442	0.08033	0.25001	0.08258	0.24564	3.83E-04	1.89E-07	5.13E-07	1.94E-07	4.84E-07	3.8408E-04
519754.74	4258422.08	2205.28914	0.08051	0.25942	0.08272	0.25462	3.82E-04	1.89E-07	5.32E-07	1.94E-07	5.01E-07	3.8391E-04
519751.11	4258430.91	2203.2458	0.08043	0.25467	0.08267	0.25007	3.82E-04	1.89E-07	5.22E-07	1.94E-07	4.92E-07	3.8354E-04
519719.32	4258483.9	2201.16208	0.0766	0.21711	0.07838	0.2138	3.82E-04	1.80E-07	4.45E-07	1.84E-07	4.21E-07	3.8301E-04
519759.01	4258387.45	2184.93117	0.07798	0.26481	0.08005	0.25941	3.79E-04	1.83E-07	5.43E-07	1.88E-07	5.11E-07	3.8039E-04
519722.93	4258475.13	2180.00946	0.07678	0.2209	0.07865	0.21748	3.78E-04	1.80E-07	4.53E-07	1.85E-07	4.28E-07	3.7936E-04
519726.54	4258466.36	2160.15815	0.07695	0.22484	0.07891	0.22126	3.75E-04	1.81E-07	4.61E-07	1.85E-07	4.36E-07	3.7593E-04
519755.4	4258396.22	2156.92051	0.07794	0.25985	0.08001	0.25468	3.74E-04	1.83E-07	5.33E-07	1.88E-07	5.01E-07	3.7551E-04
519730.15	4258457.6	2143.41654	0.07712	0.22883	0.07915	0.22509	3.72E-04	1.81E-07	4.69E-07	1.86E-07	4.43E-07	3.7305E-04
519751.79	4258404.99	2136.22348	0.07787	0.25498	0.07995	0.25003	3.71E-04	1.83E-07	5.23E-07	1.88E-07	4.92E-07	3.7190E-04
519733.75	4258448.83	2129.43933	0.07729	0.23288	0.07935	0.22896	3.69E-04	1.81E-07	4.78E-07	1.86E-07	4.51E-07	3.7064E-04
519748.18	4258413.76	2122.55666	0.07778	0.25023	0.07986	0.2455	3.68E-04	1.83E-07	5.13E-07	1.87E-07	4.83E-07	3.6951E-04
519737.36	4258440.06	2119.6705	0.07744	0.23708	0.07953	0.23296	3.68E-04	1.82E-07	4.86E-07	1.87E-07	4.59E-07	3.6896E-04
519744.58	4258422.52	2115.61456	0.07769	0.24571	0.07977	0.24119	3.67E-04	1.82E-07	5.04E-07	1.87E-07	4.75E-07	3.6829E-04
519740.97	4258431.29	2114.83994	0.07757	0.24131	0.07966	0.237	3.67E-04	1.82E-07	4.95E-07	1.87E-07	4.67E-07	3.6814E-04
CONCUNIT ug/	m^3											
DEPUNIT g/m^	2											

City of Santa Rosa—Stonebridge Subdivision Project

Project Site

Construction Annual Total PM2.5 Emissions (PM2.5 Total)

Unmitigated Concentrations

Annual Average Onsite Total PM2.5 Emission Rate (grams/m2/sec):	2.0E-07
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 1 (grams/sec):	4.09E-05
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 2 (grams/sec):	3.58E-05
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 3 (grams/sec):	4.09E-05
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 4 (grams/sec):	3.43E-05

Unmitigated PM2.5 Total Concentrations		
Maximum	**MIR**	
DPM	**UTM**	
(ug/m3)	X	Y
1.1267E-01	520285.95	4258692.95

X	Y	Onsite Project Site Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 1 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 2 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 3 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 4 Unit Emissions VALUES AVERAGED AVERAGE CONC	Onsite Project Site Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 1 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 2 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 3 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 4 Annual PM2.5 Total w/Actual Emissions (ug/m3)	**Total DPM (ug/m3)**
520285.95	4258692.95	662010.4627	0.70541	0.47948	0.67924	0.51632	1.33E-01	2.89E-05	1.72E-05	2.78E-05	1.77E-05	1.3267E-01
520276.05	4258692.97	661730.7007	0.7558	0.50671	0.7262	0.54656	1.33E-01	3.09E-05	1.81E-05	2.97E-05	1.88E-05	1.3262E-01
520266.15	4258692.98	661237.0252	0.81334	0.53678	0.77956	0.57991	1.32E-01	3.33E-05	1.92E-05	3.19E-05	1.99E-05	1.3253E-01
520295.85	4258692.94	660914.3292	0.66038	0.45448	0.63708	0.4886	1.32E-01	2.70E-05	1.63E-05	2.61E-05	1.68E-05	1.3244E-01
520256.24	4258693	658495.184	0.87811	0.56962	0.83922	0.61631	1.32E-01	3.60E-05	2.04E-05	3.44E-05	2.12E-05	1.3198E-01
520305.75	4258692.92	656765.0041	0.61928	0.43121	0.59835	0.46286	1.32E-01	2.54E-05	1.54E-05	2.45E-05	1.59E-05	1.3161E-01
520246.34	4258693.02	654632.1663	0.95238	0.60592	0.90721	0.65636	1.31E-01	3.90E-05	2.17E-05	3.71E-05	2.25E-05	1.3122E-01
520315.65	4258692.9	650173.4768	0.58193	0.40963	0.56299	0.43904	1.30E-01	2.38E-05	1.47E-05	2.31E-05	1.51E-05	1.3028E-01
520236.44	4258693.03	647446.2042	1.03669	0.64581	0.9838	0.70018	1.30E-01	4.24E-05	2.31E-05	4.03E-05	2.40E-05	1.2979E-01
520325.55	4258692.89	642068.381	0.54847	0.38984	0.53118	0.41722	1.29E-01	2.25E-05	1.39E-05	2.17E-05	1.43E-05	1.2866E-01
520226.54	4258693.05	639146.7769	1.1371	0.69147	1.07491	0.74946	1.28E-01	4.66E-05	2.47E-05	4.40E-05	2.57E-05	1.2814E-01
520285.96	4258702.95	630959.6637	0.71756	0.46523	0.69024	0.50115	1.26E-01	2.94E-05	1.66E-05	2.83E-05	1.72E-05	1.2645E-01
520276.06	4258702.97	630957.2012	0.7694	0.49114	0.73836	0.52988	1.26E-01	3.15E-05	1.76E-05	3.02E-05	1.82E-05	1.2646E-01
520335.45	4258692.87	630938.432	0.51801	0.37153	0.50211	0.39707	1.26E-01	2.12E-05	1.33E-05	2.06E-05	1.36E-05	1.2642E-01
520266.15	4258702.98	630036.8694	0.82794	0.51957	0.79239	0.56129	1.26E-01	3.39E-05	1.86E-05	3.24E-05	1.93E-05	1.2628E-01
520295.86	4258702.94	629016.2959	0.6711	0.44135	0.64686	0.47468	1.26E-01	2.75E-05	1.58E-05	2.65E-05	1.63E-05	1.2606E-01
520256.26	4258703	627344.6224	0.89421	0.55071	0.85319	0.59556	1.26E-01	3.66E-05	1.97E-05	3.49E-05	2.04E-05	1.2575E-01
520216.64	4258693.07	626935.9391	1.2529	0.74154	1.17902	0.80314	1.26E-01	5.13E-05	2.65E-05	4.83E-05	2.76E-05	1.2571E-01
520305.77	4258702.92	624933.273	0.62914	0.41927	0.60745	0.45023	1.25E-01	2.58E-05	1.50E-05	2.49E-05	1.55E-05	1.2523E-01
520246.36	4258703.02	622952.3412	0.96996	0.58507	0.92233	0.63309	1.25E-01	3.97E-05	2.09E-05	3.78E-05	2.17E-05	1.2487E-01
520315.67	4258702.9	618385.3726	0.59112	0.39882	0.57155	0.42761	1.24E-01	2.42E-05	1.43E-05	2.34E-05	1.47E-05	1.2392E-01
520236.46	4258703.03	616231.652	1.05663	0.62291	1.00088	0.67408	1.23E-01	4.33E-05	2.23E-05	4.10E-05	2.31E-05	1.2354E-01
520345.35	4258692.85	615114.5187	0.48991	0.35441	0.47519	0.37827	1.23E-01	2.01E-05	1.27E-05	1.95E-05	1.30E-05	1.2325E-01
520206.74	4258693.08	611044.6617	1.39025	0.79675	1.30102	0.86205	1.22E-01	5.69E-05	2.85E-05	5.33E-05	2.96E-05	1.2254E-01
520325.57	4258702.89	610001.1955	0.5568	0.37996	0.53899	0.40674	1.22E-01	2.28E-05	1.36E-05	2.21E-05	1.40E-05	1.2223E-01
520226.56	4258703.05	607387.9481	1.15843	0.6654	1.09288	0.71947	1.22E-01	4.74E-05	2.38E-05	4.47E-05	2.47E-05	1.2178E-01
520335.47	4258702.87	599219.393	0.52565	0.36253	0.50934	0.3875	1.20E-01	2.15E-05	1.30E-05	2.09E-05	1.33E-05	1.2007E-01
520216.66	4258703.07	595412.1692	1.27692	0.71237	1.19948	0.76912	1.19E-01	5.23E-05	2.55E-05	4.91E-05	2.64E-05	1.1939E-01
520355.25	4258692.84	594099.7587	0.46433	0.33858	0.45059	0.36092	1.19E-01	1.90E-05	1.21E-05	1.84E-05	1.24E-05	1.1904E-01
520196.84	4258693.1	589909.9555	1.55429	0.85851	1.44609	0.92722	1.18E-01	6.36E-05	3.07E-05	5.92E-05	3.18E-05	1.1832E-01
520345.37	4258702.85	583195.2902	0.49683	0.34617	0.48175	0.36946	1.17E-01	2.03E-05	1.24E-05	1.97E-05	1.27E-05	1.1686E-01
520206.76	4258703.08	579527.2475	1.4173	0.76346	1.32431	0.82309	1.16E-01	5.80E-05	2.73E-05	5.42E-05	2.83E-05	1.1623E-01
520157.12	4258846.05	572750.5551	2.41391	1.62136	2.20438	1.77451	1.15E-01	9.88E-05	5.80E-05	9.03E-05	6.09E-05	1.1501E-01
520365.15	4258692.82	564099.0537	0.44038	0.32363	0.42748	0.34458	1.13E-01	1.80E-05	1.16E-05	1.75E-05	1.18E-05	1.1303E-01
520355.27	4258702.84	562308.3214	0.4705	0.33099	0.45646	0.35275	1.13E-01	1.93E-05	1.18E-05	1.87E-05	1.21E-05	1.1267E-01
520186.94	4258693.12	561775.8411	1.75507	0.92751	1.62237	0.99969	1.13E-01	7.19E-05	3.32E-05	6.64E-05	3.43E-05	1.1271E-01
520157.12	4258655.32	561759.9611	2.48739	1.52577	2.26179	1.65906	1.13E-01	1.02E-04	5.46E-05	9.26E-05	5.70E-05	1.1281E-01
520196.86	4258703.1	558250.8976	1.58571	0.81999	1.47332	0.88255	1.12E-01	6.49E-05	2.93E-05	6.03E-05	3.03E-05	1.1198E-01
520147.12	4258846.05	551368.5226	2.90149	1.83714	2.61828	2.00195	1.10E-01	1.19E-04	6.57E-05	1.07E-04	6.87E-05	1.1078E-01
520147.12	4258655.32	539010.2038	2.98985	1.71437	2.6866	1.85484	1.08E-01	1.22E-04	6.13E-05	1.10E-04	6.37E-05	1.0830E-01
520365.17	4258702.82	534151.4274	0.44628	0.31685	0.4331	0.33721	1.07E-01	1.83E-05	1.13E-05	1.77E-05	1.16E-05	1.0703E-01
520157.12	4258664.6	531634.1877	2.55475	1.43574	2.31624	1.55154	1.06E-01	1.05E-04	5.14E-05	9.48E-05	5.33E-05	1.0677E-01
520186.96	4258703.12	529735.306	1.79066	0.88188	1.65298	0.94795	1.06E-01	7.33E-05	3.15E-05	6.77E-05	3.25E-05	1.0629E-01
520177.04	4258693.13	525404.7531	2.00342	1.00358	1.83797	1.07998	1.05E-01	8.20E-05	3.59E-05	7.53E-05	3.71E-05	1.0545E-01
520137.12	4258846.05	525153.9319	3.57866	2.09768	3.18247	2.27288	1.05E-01	1.47E-04	7.50E-05	1.30E-04	7.80E-05	1.0560E-01
520375.05	4258692.8	523276.3796	0.41865	0.30989	0.40644	0.32958	1.05E-01	1.71E-05	1.11E-05	1.66E-05	1.13E-05	1.0485E-01
520137.12	4258655.32	512025.5326	3.6851	1.93506	3.26165	2.08215	1.03E-01	1.51E-04	6.92E-05	1.34E-04	7.15E-05	1.0297E-01
520276.1	4258702.97	505674.2331	0.79371	0.46183	0.75976	0.49782	1.01E-01	3.25E-05	1.65E-05	3.11E-05	1.71E-05	1.0137E-01
520286	4258722.95	505256.639	0.73952	0.43808	0.70971	0.47189	1.01E-01	3.03E-05	1.57E-05	2.91E-05	1.62E-05	1.0128E-01
520266.2	4258722.98	504669.1133	0.85464	0.48778	0.8158	0.52592	1.01E-01	3.50E-05	1.74E-05	3.34E-05	1.81E-05	1.0117E-01
520295.9	4258722.94	503301.2402	0.69121	0.41641	0.66492	0.44806	1.01E-01	2.83E-05	1.49E-05	2.72E-05	1.54E-05	1.0088E-01
520147.12	4258664.6	502477.166	3.06715	1.599	2.74954	1.72011	1.01E-01	1.26E-04	5.72E-05	1.13E-04	5.91E-05	1.0098E-01
520256.29	4258723	502068.1672	0.92375	0.51606	0.87902	0.55632	1.01E-01	3.78E-05	1.85E-05	3.60E-05	1.91E-05	1.0066E-01
520305.8	4258722.92	499711.4967	0.64774	0.39649	0.6244	0.42605	1.00E-01	2.65E-05	1.42E-05	2.56E-05	1.46E-05	1.0015E-01
520246.39	4258723.02	497859.4119	1.00257	0.54684	0.95073	0.58917	9.97E-02	4.10E-05	1.96E-05	3.89E-05	2.02E-05	9.9823E-02
520375.07	4258702.8	495316.0666	0.42383	0.30359	0.41136	0.32267	9.92E-02	1.74E-05	1.09E-05	1.68E-05	1.11E-05	9.9250E-02
520315.7	4258722.9	493976.8157	0.60825	0.37772	0.58724	0.40533	9.89E-02	2.49E-05	1.35E-05	2.40E-05	1.39E-05	9.9002E-02
520157.12	4258873.87	493534.2778	2.61469	1.34986	2.36669	1.45215	9.88E-02	1.07E-04	4.83E-05	9.69E-05	4.99E-05	9.9139E-02
520127.12	4258846.05	492895.6744	4.55641	2.41345	3.98368	2.59237	9.87E-02	1.87E-04	8.63E-05	1.63E-04	8.90E-05	9.9234E-02
520236.49	4258723.03	491916.287	1.09317	0.58035	1.03274	0.62471	9.85E-02	4.48E-05	2.08E-05	4.23E-05	2.14E-05	9.8642E-02
520177.05	4258703.13	491915.5288	2.04404	0.94969	1.87246	1.02006	9.85E-02	8.37E-05	3.40E-05	7.67E-05	3.50E-05	9.8742E-02
520325.6	4258722.89	485086.5142	0.57235	0.36042	0.55332	0.38619	9.71E-02	2.34E-05	1.29E-05	2.27E-05	1.33E-05	9.7217E-02
520226.59	4258723.05	483881.6868	1.19826	0.61692	1.12752	0.66328	9.69E-02	4.91E-05	2.21E-05	4.62E-05	2.28E-05	9.7044E-02
520127.12	4258655.32	480354.9216	4.68376	2.19799	4.07203	2.34136	9.62E-02	1.92E-04	7.86E-05	1.67E-04	8.04E-05	9.6715E-02
520167.14	4258693.15	479970.9033	2.31789	1.08767	2.10702	1.16908	9.61E-02	9.49E-05	3.89E-05	8.63E-05	4.01E-05	9.6381E-02
520335.5	4258722.87	473811.8752	0.53964	0.34439	0.52227	0.36844	9.49E-02	2.21E-05	1.23E-05	2.14E-05	1.26E-05	9.4956E-02
520137.12	4258664.6	473513.4601	3.77541	1.78691	3.33266	1.91154	9.48E-02	1.55E-04	6.39E-05	1.36E-04	6.56E-05	9.5248E-02
520216.69	4258723.07	473418.3444	1.32151	0.65686	1.23821	0.70529	9.48E-02	5.41E-05	2.35E-05	5.07E-05	2.42E-05	9.4961E-02
520384.96	4258692.79	467816.7544	0.39843	0.29701	0.38682	0.31554	9.37E-02	1.63E-05	1.06E-05	1.58E-05	1.08E-05	9.3740E-02
520157.12	4258883.15	463931.6033	2.67282	1.26628	2.40997	1.36004	9.25E-02	1.09E-04	4.53E-05	9.87E-05	4.67E-05	9.2808E-02
520206.79	4258723.08	459749.9231	1.46709	0.69966	1.36788	0.75072	9.21E-02	6.01E-05	2.50E-05	5.60E-05	2.58E-05	9.2238E-02
520345.4	4258722.85	459676.8086	0.50982	0.32951	0.49383	0.35197	9.21E-02	2.09E-05	1.18E-05	2.02E-05	1.21E-05	9.2122E-02
520147.12	4258873.87	458448.1957	3.13449	1.49094	2.80621	1.59781	9.18E-02	1.28E-04	5.33E-05	1.15E-04	5.49E-05	9.2162E-02
520117.12	4258846.05	453337.2361	6.02456	2.80275	5.18464	2.95182	9.08E-02	2.47E-04	1.00E-04	2.12E-04	1.01E-04	9.1448E-02
520384.97	4258702.79	444201.6386	0.40308	0.2912	0.39121	0.30911	8.90E-02	1.65E-05	1.04E-05	1.60E-05	1.06E-05	8.9011E-02
520286.01	4258732.95	443470.6967	0.74861	0.42495	0.71744	0.45747	8.88E-02	3.07E-05	1.52E-05	2.94E-05	1.57E-05	8.8902E-02
520276.11	4258732.97	443321.6464	0.80306	0.44739	0.76758	0.48176	8.88E-02	3.29E-05	1.60E-05	3.14E-05	1.65E-05	8.8878E-02
520295.91	4258732.94	443194.7901	0.70049	0.40463	0.67307	0.43525	8.88E-02	2.87E-05	1.45E-05	2.76E-05	1.49E-05	8.8841E-02
520117.12	4258855.32	442679.2421	6.17731	2.51752	5.27774	2.61964	8.87E-02	2.53E-04	9.00E-05	2.16E-04	8.99E-05	8.9302E-02
520196.89	4258723.1	441936.3227	1.64127	0.74603	1.52191	0.80023	8.85E-02	6.72E-05	2.67E-05	6.23E-05	2.75E-05	8.8687E-02
520266.21	4258732.98	441922.7961	0.8643	0.47181	0.82376	0.50799	8.85E-02	3.54E-05	1.69E-05	3.37E-05	1.74E-05	8.8605E-02
520355.3	4258722.84	441578.9503	0.48248	0.31564	0.46764	0.33663	8.84E-02	1.98E-05	1.13E-05	1.91E-05	1.16E-05	8.8494E-02
520127.12	4258664.6	441242.8549	4.78308	2.01127	4.15275	2.12313	8.84E-02	1.96E-04	7.19E-05	1.70E-04	7.29E-05	8.8876E-02
520256.31	4258733	440473.4092	0.93504	0.49867	0.88843	0.53664	8.82E-02	3.83E-05	1.78E-05	3.64E-05	1.84E-05	8.8322E-02
520305.82	4258732.92	439595.7048	0.65618	0.3856	0.63191	0.41433	8.80E-02	2.69E-05	1.38E-05	2.59E-05	1.42E-05	8.8116E-02
520246.41	4258843.03	436140.439	1.02423	0.52751	0.96051	0.56717	8.73E-02	4.15E-05	1.89E-05	3.93E-05	1.95E-05	8.7462E-02
520236.51	4258733.03	430262.5705	1.10508	0.55874	1.04291	0.60012	8.62E-02	4.52E-05	2.00E-05	4.27E-05	2.06E-05	8.6294E-02
520315.72	4258732.9	430094.6625	0.61423	0.36682	0.59234	0.39379	8.61E-02	2.51E-05	1.31E-05	2.43E-05	1.35E-05	8.6208E-02
520226.61	4258733.05	425077.4163	1.2144	0.59309	1.14168	0.63637	8.51E-02	4.97E-05	2.12E-05	4.67E-05	2.18E-05	8.5267E-02
520137.12	4258873.87	425012.9196	3.84051	1.65525	3.3984	1.75984	8.51E-02	1.57E-04	5.92E-05	1.39E-04	6.04E-05	8.5531E-02
520325.62	4258732.89	422924.2617	0.57832	0.35049	0.55854	0.37573	8.47E-02	2.37E-05	1.25E-05	2.29E-05	1.29E-05	8.4768E-02
520147.12	4258883.15	422825.3067	3.20665	1.38833	2.8509	1.48633	8.47E-02	1.31E-04	4.97E-05	1.17E-04	5.10E-05	8.5025E-02
520160.07	4258700.23	421059.4477	2.63003	1.10318	2.36922	1.18257	8.43E-02	1.08E-04	3.95E-05	9.70E-05	4.06E-05	8.4608E-02
520365.2	4258722.82	419786.6962	0.45753	0.30285	0.44368	0.32246	8.41E-02	1.87E-05	1.08E-05	1.82E-05	1.11E-05	8.4127E-02
520186.99	4258723.12	418959.9409	1.85237	0.79609	1.70623	0.85397	8.39E-02	7.58E-05	2.85E-05	6.99E-05	2.93E-05	8.4086E-02
520216.71	4258733.07	416895.7376	1.34162	0.6299	1.25594	0.67537	8.35E-02	5.49E-05	2.25E-05	5.14E-05	2.32E-05	8.3641E-02
520335.52	4258732.87	412508.9499	0.5451	0.33513	0.5271	0.35875	8.26E-02	2.23E-05	1.20E-05	2.16E-05	1.23E-05	8.2679E-02
520117.12	4258664.6	405962.6887	6.2821	2.2804	5.36663	2.34026	8.13E-02	2.57E-04	8.16E-05	2.20E-04	8.03E-05	8.1938E-02
520107.12	4258846.05	405286.502	8.29137	3.27618	7.12267	3.30505	8.12E-02	3.39E-04	1.17E-04	2.92E-04	1.13E-04	8.2026E-02
520206.81	4258733.08	403304.9696	1.48556	0.66809	1.38397	0.71652	8.08E-02	6.08E-05	2.39E-05	5.67E-05	2.46E-05	8.0933E-02
520394.86	4258692.77	402093.9677	0.37942	0.28482	0.36831	0.30228	8.05E-02	1.55E-05	1.02E-05	1.51E-05	1.04E-05	8.0576E-02
520345.42	4258732.85	398873.3084	0.51451	0.32073	0.498	0.34282	7.99E-02	2.11E-05	1.15E-05	2.04E-05	1.18E-05	7.9945E-02
520107.12	4258855.32	396695.3815	8.46977	2.89289	7.213	2.87536	7.94E-02	3.47E-04	1.03E-04	2.95E-04	9.87E-05	8.0288E-02
520276.13	4258742.97	393555.3145	0.81425	0.43442	0.77748	0.46701	7.88E-02	3.33E-05	1.55E-05	3.18E-05	1.60E-05	7.8892E-02
520286.03	4258742.95	393424.8123	0.75885	0.41304	0.72651	0.44405	7.88E-02	3.11E-05	1.48E-05	2.97E-05	1.52E-05	7.8880E-02
520295.93	4258742.94	392026.7775	0.70941	0.3935	0.68093	0.42289	7.85E-02	2.90E-05	1.41E-05	2.79E-05	1.45E-05	7.8594E-02
520127.12	4258673.87	392001.7998	4.82933	1.85072	4.22761	1.93337	7.85E-02	1.98E-04	6.62E-05	1.73E-04	6.64E-05	7.9007E-02
520266.23	4258742.98	391799.814	0.87593	0.45746	0.83403	0.49154	7.85E-02	3.59E-05	1.64E-05	3.41E-05	1.69E-05	7.8567E-02
520375.11	4258722.8	390522.566	0.43414	0.29067	0.42107	0.30901	7.82E-02	1.78E-05	1.04E-05	1.72E-05	1.06E-05	7.8263E-02
520256.33	4258743	390273.9548	0.94759	0.48275	0.89956	0.51832	7.82E-02	3.88E-05	1.73E-05	3.68E-05	1.78E-05	7.8268E-02
520177.09	4258723.13	390188.0308	2.11218	0.85123	1.93009	0.91256	7.81E-02	8.65E-05	3.04E-05	7.90E-05	3.13E-05	7.8368E-02
520305.83	4258742.92	388393.5673	0.66434	0.37519	0.6391	0.40297	7.78E-02	2.72E-05	1.34E-05	2.62E-05	1.38E-05	7.7862E-02
520137.12	4258683.15	388111.7385	3.93849	1.53176	3.44433	1.62481	7.77E-02	1.61E-04	5.48E-05	1.41E-04	5.58E-05	7.8138E-02
520246.43	4258743.02	386888.3886	1.02862	0.50985	0.9734	0.54694	7.75E-02	4.21E-05	1.82E-05	3.99E-05	1.88E-05	7.7599E-02
520196.91	4258733.1	386868.8806	1.65823	0.70949	1.53631	0.76131	7.75E-02	6.79E-05	2.54E-05	6.29E-05	2.61E-05	7.7658E-02
520394.87	4258702.77	383280.803	0.38378	0.27957	0.37241	0.29641	7.68E-02	1.57E-05	1.00E-05	1.52E-05	1.02E-05	7.6808E-02
520355.32	4258732.84	382917.3022	0.48694	0.30754	0.47163	0.32819	7.67E-02	1.99E-05	1.10E-05	1.93E-05	1.13E-05	7.6746E-02
520236.53	4258743.03	382285.2374	1.12206	0.539	1.05818	0.57776	7.66E-02	4.59E-05	1.93E-05	4.33E-05	1.98E-05	7.6686E-02
520315.73	4258742.9	379516.2051	0.6214	0.357	0.59862	0.38323	7.60E-02	2.54E-05	1.28E-05	2.45E-05	1.32E-05	7.6079E-02
520226.63	4258743.05	377159.099	1.23258	0.57048	1.15802	0.61121	7.55E-02	5.05E-05	2.04E-05	4.74E-05	2.10E-05	7.5671E-02
520325.63	4258742.89	372767.896	0.58501	0.34135	0.56444	0.36601	7.47E-02	2.40E-05	1.22E-05	2.31E-05	1.26E-05	7.4724E-02
520216.72	4258743.07	369290.478	1.36068	0.60388	1.2729	0.64707	7.40E-02	5.57E-05	2.16E-05	5.21E-05	2.22E-05	7.4107E-02
520187.01	4258733.12	367383.6721	1.86951	0.75494	1.7206	0.81017	7.36E-02	7.65E-05	2.70E-05	7.04E-05	2.78E-05	7.3775E-02
520107.12	4258664.6	364666.488	8.58552	2.58252	7.30115	2.52874	7.30E-02	3.52E-04	9.24E-05	2.99E-04	8.68E-05	7.3859E-02
520365.22	4258732.82	364491.551	0.46206	0.29545	0.44773	0.31478	7.30E-02	1.89E-05	1.06E-05	1.83E-05	1.08E-05	7.3053E-02
520335.53	4258742.87	363255.4372	0.55134	0.32663	0.53264	0.34978	7.27E-02	2.26E-05	1.17E-05	2.18E-05	1.20E-05	7.2815E-02
520127.12	4258673.87	358682.5779	6.27831	2.08017	5.44927	2.10424	7.18E-02	2.57E-04	7.44E-05	2.23E-04	7.22E-05	7.2458E-02
520206.82	4258743.08	357457.2179	1.50677	0.63879	1.40259	0.68501	7.16E-02	6.17E-05	2.28E-05	5.74E-05	2.35E-05	7.1751E-02
520142.99	4258697.3	357304.0426	3.5693	1.30295	3.14066	1.38187	7.16E-02	1.46E-04	4.66E-05	1.29E-04	4.74E-05	7.1924E-02
520127.12	4258883.15	356214.8165	4.97931	1.70276	4.27691	1.76981	7.13E-02	2.04E-04	6.09E-05	1.75E-04	6.08E-05	7.1838E-02
520385.01	4258722.79	354960.1158	0.41245	0.27924	0.40003	0.2964	7.11E-02	1.69E-05	9.99E-06	1.64E-05	1.02E-05	7.1139E-02
520345.44	4258742.85	351174.4886	0.52041	0.31286	0.50328	0.33457	7.03E-02	2.13E-05	1.12E-05	2.06E-05	1.15E-05	7.0392E-02
520276.15	4258752.97	350226.7969	0.82382	0.42162	0.78592	0.45238	7.01E-02	3.37E-05	1.51E-05	3.22E-05	1.55E-05	7.0234E-02
520286.05	4258752.95	349840.2368	0.76761	0.40127	0.73414	0.43073	7.01E-02	3.14E-05	1.44E-05	3.01E-05	1.48E-05	7.0151E-02
520266.25	4258752.98	349714.4292	0.8874	0.44361	0.84432	0.47567	7.00E-02	3.63E-05	1.59E-05	3.46E-05	1.63E-05	7.0138E-02
520295.95	4258752.94	348899.204	0.71784	0.38263	0.68827	0.41072	6.99E-02	2.94E-05	1.37E-05	2.82E-05	1.41E-05	6.9957E-02
520256.34	4258753	348163.1831	0.95986	0.46728	0.91064	0.50068	6.97E-02	3.93E-05	1.67E-05	3.78E-05	1.72E-05	6.9835E-02
520097.12	4258846.05	347956.3173	11.65187	3.77005	10.63734	3.54717	6.97E-02	4.77E-04	1.35E-04	4.36E-04	1.22E-04	7.0852E-02
520305.85	4258752.92	345341.9954	0.67218	0.36519	0.64593	0.39188	6.92E-02	2.75E-05	1.31E-05	2.64E-05	1.35E-05	6.9240E-02
520246.44	4258753.02	345010.8408	1.04171	0.49242	0.98527	0.52729	6.91E-02	4.27E-05	1.76E-05	4.03E-05	1.81E-05	6.9212E-02
520177.1

520177.12	4258743.13	307433.964	2.15529	0.76532	1.96619	0.81915	6.16E-02	8.82E-05	2.74E-05	8.05E-05	2.81E-05	6.1792E-02
520343.86	4258473.14	307369.3703	0.36323	0.49071	0.36119	0.53516	6.16E-02	1.49E-05	1.76E-05	1.48E-05	1.84E-05	6.1620E-02
520196.94	4258753.1	306508.537	1.7	0.64589	1.57248	0.69285	6.14E-02	6.96E-05	2.31E-05	6.44E-05	2.38E-05	6.1563E-02
520285.12	4258472.96	305923.0394	0.46418	0.72976	0.46237	0.80594	6.13E-02	1.90E-05	2.61E-05	1.88E-05	2.77E-05	6.1357E-02
520236.56	4258763.03	305242.9034	1.14743	0.49943	1.08134	0.53454	6.11E-02	4.70E-05	1.79E-05	4.43E-05	1.84E-05	6.1257E-02
520353.64	4258473.18	304906.1484	0.34956	0.46374	0.34766	0.50442	6.11E-02	1.43E-05	1.66E-05	1.42E-05	1.73E-05	6.1124E-02
520120.79	4258692	304057.1432	5.94848	1.6873	5.04001	1.70436	6.09E-02	2.44E-04	6.04E-05	2.06E-04	5.85E-05	6.1460E-02
520275.33	4258472.93	303845.8375	0.48512	0.7875	0.48306	0.87185	6.08E-02	1.99E-05	2.82E-05	1.98E-05	2.99E-05	6.0947E-02
520315.77	4258762.9	302711.3836	0.6364	0.33922	0.61179	0.3636	6.06E-02	2.61E-05	1.21E-05	2.50E-05	1.25E-05	6.0698E-02
520265.55	4258472.9	301433.2026	0.50759	0.85278	0.50514	0.94681	6.04E-02	2.08E-05	3.05E-05	2.07E-05	3.25E-05	6.0471E-02
520226.66	4258763.05	301251.3709	1.2613	0.52631	1.18384	0.5637	6.03E-02	5.16E-05	1.88E-05	4.85E-05	1.94E-05	6.0468E-02
520411.9	4258689.91	301035.6197	0.34861	0.26683	0.33828	0.28283	6.03E-02	1.43E-05	9.54E-06	1.39E-05	9.71E-06	6.0334E-02
520363.43	4258473.21	300053.3675	0.33664	0.43866	0.3348	0.47403	6.01E-02	1.38E-05	1.57E-05	1.37E-05	1.63E-05	6.0149E-02
520375.14	4258742.8	298699.69	0.4422	0.277	0.42831	0.29484	5.98E-02	1.81E-05	9.91E-06	1.75E-05	1.01E-05	5.9874E-02
520355.35	4258752.84	298671.9701	0.49749	0.293	0.48105	0.313	5.98E-02	2.04E-05	1.05E-05	1.97E-05	1.07E-05	5.9874E-02
520255.76	4258472.87	298393.792	0.53165	0.92636	0.52869	1.03215	5.98E-02	2.18E-05	3.31E-05	2.16E-05	3.54E-05	5.9869E-02
520325.67	4258762.89	296118.0267	0.59816	0.32449	0.57593	0.34765	5.93E-02	2.45E-05	1.16E-05	2.36E-05	1.19E-05	5.9373E-02
520216.76	4258763.07	295750.1791	1.39413	0.55483	1.30253	0.59474	5.92E-02	5.71E-05	1.98E-05	5.33E-05	2.04E-05	5.9379E-02
520245.97	4258473.84	294852.677	0.55746	1.01014	0.55415	1.13019	5.90E-02	2.28E-05	3.61E-05	2.27E-05	3.88E-05	5.9169E-02
520373.22	4258473.24	294038.7965	0.32441	0.41565	0.32263	0.45004	5.89E-02	1.33E-05	1.49E-05	1.32E-05	1.55E-05	5.8942E-02
520149.5	4258725.84	293506.6039	3.28357	1.02766	2.90592	1.08172	5.88E-02	1.34E-04	3.68E-05	1.19E-04	3.71E-05	5.9106E-02
520324.31	4258463.08	292757.9722	0.38593	0.5623	0.38497	0.61518	5.86E-02	1.58E-05	2.01E-05	1.58E-05	2.11E-05	5.8702E-02
520314.52	4258463.05	292651.8782	0.40143	0.60011	0.40051	0.65781	5.86E-02	1.64E-05	2.15E-05	1.64E-05	2.26E-05	5.8684E-02
520187.04	4258753.12	292520.9451	1.91434	0.68489	1.75888	0.73404	5.86E-02	7.84E-05	2.45E-05	7.20E-05	2.52E-05	5.8781E-02
520334.1	4258463.11	292254.7825	0.37132	0.52792	0.37021	0.57656	5.85E-02	1.52E-05	1.89E-05	1.52E-05	1.98E-05	5.8597E-02
520304.73	4258463.02	292020.5697	0.41787	0.64196	0.41688	0.70515	5.85E-02	1.71E-05	2.30E-05	1.71E-05	2.42E-05	5.8562E-02
520343.89	4258463.14	291048.6843	0.35748	0.4969	0.35625	0.54166	5.83E-02	1.46E-05	1.78E-05	1.46E-05	1.86E-05	5.8352E-02
520294.94	4258462.99	290883.374	0.43532	0.68855	0.43413	0.75807	5.83E-02	1.78E-05	2.46E-05	1.78E-05	2.60E-05	5.8340E-02
520107.12	4258683.15	290861.2075	8.83842	2.10028	7.43733	2.01516	5.82E-02	3.62E-04	7.51E-05	3.05E-04	6.92E-05	5.9060E-02
520236.18	4258472.81	290657.2599	0.58527	1.1071	0.58213	1.24422	5.82E-02	2.40E-05	3.96E-05	2.38E-05	4.27E-05	5.8338E-02
520408.97	4258706.94	290326.3214	0.36	0.26211	0.34908	0.27735	5.81E-02	1.47E-05	9.38E-06	1.43E-05	9.52E-06	5.8190E-02
520383.01	4258473.27	289318.9019	0.31291	0.39405	0.31103	0.42588	5.79E-02	1.28E-05	1.41E-05	1.27E-05	1.46E-05	5.7994E-02
520285.15	4258462.96	289266.1503	0.45389	0.74076	0.45236	0.81766	5.79E-02	1.86E-05	2.65E-05	1.85E-05	2.81E-05	5.8021E-02
520353.67	4258463.18	288080.5409	0.34433	0.46911	0.34309	0.51022	5.77E-02	1.41E-05	1.68E-05	1.40E-05	1.75E-05	5.7755E-02
520124.46	4258700.84	287791.9041	5.46281	1.5151	4.65242	1.53607	5.76E-02	2.24E-04	5.42E-05	1.90E-04	5.27E-05	5.8155E-02
520335.57	4258762.87	287744.711	0.56307	0.31067	0.54287	0.33264	5.76E-02	2.31E-05	1.11E-05	2.22E-05	1.14E-05	5.7693E-02
520275.37	4258462.93	287212.9599	0.47366	0.79909	0.47168	0.88478	5.75E-02	1.94E-05	2.86E-05	1.93E-05	3.04E-05	5.7616E-02
520167.22	4258743.15	286402.3925	2.48069	0.81779	2.2428	0.87084	5.74E-02	1.02E-04	2.93E-05	9.18E-05	2.99E-05	5.7609E-02
520206.86	4258763.08	286348.8114	1.54078	0.58452	1.43237	0.62704	5.73E-02	6.31E-05	2.09E-05	5.86E-05	2.15E-05	5.7509E-02
520226.39	4258472.78	286111.8106	0.61498	1.21923	0.61294	1.37703	5.73E-02	2.52E-05	4.36E-05	2.51E-05	4.73E-05	5.7439E-02
520265.58	4258462.9	284685.1689	0.49476	0.86524	0.49241	0.96126	5.70E-02	2.03E-05	3.09E-05	2.02E-05	3.30E-05	5.7116E-02
520365.25	4258752.82	284157.1373	0.47148	0.28169	0.45617	0.30045	5.69E-02	1.93E-05	1.01E-05	1.87E-05	1.03E-05	5.6965E-02
520276.18	4258772.97	283031.5062	0.84253	0.39716	0.80285	0.42461	5.67E-02	3.45E-05	1.42E-05	3.29E-05	1.46E-05	5.6777E-02
520087.12	4258846.05	283013.5226	12.31595	4.06718	18.58445	3.57844	5.67E-02	5.04E-04	1.45E-04	7.61E-04	1.23E-04	5.8211E-02
520266.28	4258772.98	282825.0237	0.90763	0.41643	0.8628	0.44508	5.66E-02	3.72E-05	1.49E-05	3.53E-05	1.53E-05	5.6742E-02
520363.46	4258463.21	282783.7456	0.33183	0.44359	0.3306	0.48138	5.66E-02	1.36E-05	1.59E-05	1.35E-05	1.65E-05	5.6691E-02
520286.08	4258772.95	282097.4704	0.78437	0.37894	0.74909	0.40532	5.65E-02	3.21E-05	1.36E-05	3.07E-05	1.39E-05	5.6584E-02
520255.79	4258462.87	281707.685	0.51729	0.93988	0.51479	1.04838	5.64E-02	2.12E-05	3.36E-05	2.11E-05	3.60E-05	5.6528E-02
520295.98	4258772.94	281385.0976	0.73397	0.36229	0.70254	0.38765	5.64E-02	3.01E-05	1.30E-05	2.88E-05	1.33E-05	5.6436E-02
520256.38	4258773	281346.1068	0.98064	0.43661	0.92975	0.46668	5.63E-02	4.02E-05	1.56E-05	3.81E-05	1.60E-05	5.6453E-02
520216.6	4258472.75	280661.851	0.64685	1.35315	0.64745	1.53474	5.62E-02	2.65E-05	4.84E-05	2.65E-05	5.27E-05	5.6360E-02
520097.12	4258673.87	279503.5641	11.5555	2.53205	10.81178	2.32385	5.60E-02	4.73E-04	9.06E-05	4.43E-04	7.98E-05	5.7061E-02
520246.48	4258773.02	279058.8694	1.06435	0.45804	1.00612	0.48985	5.59E-02	4.36E-05	1.64E-05	4.12E-05	1.68E-05	5.6003E-02
520087.12	4258836.77	278780.6896	12.06758	4.90768	18.62203	4.29346	5.58E-02	4.94E-04	1.76E-04	7.62E-04	1.47E-04	5.7409E-02
520392.8	4258473.3	278682.2932	0.30146	0.37277	0.29946	0.40235	5.58E-02	1.23E-05	1.33E-05	1.23E-05	1.38E-05	5.5862E-02
520345.47	4258762.85	278260.8142	0.53149	0.29799	0.51299	0.31876	5.57E-02	2.18E-05	1.07E-05	2.10E-05	1.09E-05	5.5790E-02
520246	4258462.84	278246.16	0.54133	1.02533	0.53925	1.14862	5.57E-02	2.22E-05	3.67E-05	2.21E-05	3.94E-05	5.5843E-02
520305.88	4258772.92	278160.5985	0.68702	0.34635	0.65894	0.37069	5.57E-02	2.81E-05	1.24E-05	2.70E-05	1.27E-05	5.5788E-02
520373.25	4258463.24	277646.9467	0.32002	0.42011	0.31875	0.45492	5.56E-02	1.31E-05	1.50E-05	1.31E-05	1.56E-05	5.5659E-02
520158.72	4258739.64	277462.8778	2.82169	0.88491	2.52898	0.9364	5.56E-02	1.16E-04	3.17E-05	1.04E-04	3.21E-05	5.5849E-02
520394.92	4258732.77	277030.9398	0.39498	0.26204	0.38276	0.2779	5.55E-02	1.62E-05	9.37E-06	1.57E-05	9.54E-06	5.5530E-02
520087.12	4258655.32	276702.3044	12.56411	3.45081	18.52842	3.04927	5.54E-02	5.14E-04	1.23E-04	7.59E-04	1.05E-04	5.6915E-02
520177.14	4258753.13	276595.2914	2.17715	0.72846	1.98474	0.77824	5.54E-02	8.91E-05	2.61E-05	8.13E-05	2.67E-05	5.5615E-02
520196.96	4258763.1	275708.4444	1.71663	0.61707	1.58692	0.66189	5.52E-02	7.03E-05	2.21E-05	6.50E-05	2.27E-05	5.5394E-02
520236.58	4258773.03	275511.2312	1.15945	0.48051	1.09237	0.51441	5.52E-02	4.75E-05	1.72E-05	4.47E-05	1.77E-05	5.5302E-02
520383.04	4258463.27	275426.5107	0.30893	0.39812	0.30743	0.43041	5.52E-02	1.26E-05	1.42E-05	1.26E-05	1.48E-05	5.5212E-02
520110.64	4258691.64	274769.7589	7.983	1.86847	6.60281	1.80934	5.50E-02	3.27E-04	6.68E-05	2.74E-04	6.21E-05	5.5756E-02
520206.81	4258472.72	274695.927	0.68054	1.51192	0.68543	1.72239	5.50E-02	2.79E-05	5.41E-05	2.81E-05	5.91E-05	5.5181E-02
520236.21	4258462.81	274259.0701	0.56692	1.1244	0.56619	1.26495	5.49E-02	2.32E-05	4.02E-05	2.32E-05	4.34E-05	5.5054E-02
520385.04	4258742.79	274102.0419	0.41932	0.26616	0.40616	0.28287	5.49E-02	1.72E-05	9.52E-06	1.66E-05	9.71E-06	5.4946E-02
520315.78	4258772.9	273086.3503	0.64383	0.33096	0.61843	0.35429	5.47E-02	2.64E-05	1.18E-05	2.53E-05	1.22E-05	5.4765E-02
520226.68	4258773.05	272257.0151	1.27559	0.50576	1.19673	0.54191	5.45E-02	5.22E-05	1.81E-05	4.90E-05	1.86E-05	5.4661E-02
520226.42	4258462.78	269761.4276	0.5941	1.23954	0.59577	1.40085	5.40E-02	2.43E-05	4.43E-05	2.44E-05	4.81E-05	5.4165E-02
520197.03	4258472.69	268126.0373	0.75172	1.70184	0.72647	1.94878	5.37E-02	2.93E-05	6.09E-05	2.97E-05	6.69E-05	5.3883E-02
520216.77	4258773.07	267204.2347	1.40914	0.53231	1.3158	0.57082	5.35E-02	5.77E-05	1.90E-05	5.39E-05	1.96E-05	5.3662E-02
520150.22	4258736.13	266751.1142	3.24743	0.96146	2.88296	1.00781	5.34E-02	1.33E-04	3.44E-05	1.18E-04	3.46E-05	5.3741E-02
520355.37	4258762.84	266747.0139	0.50227	0.28605	0.48521	0.30565	5.34E-02	2.06E-05	1.02E-05	1.99E-05	1.05E-05	5.3481E-02
520325.68	4258772.89	266699.392	0.6047	0.31669	0.58166	0.33898	5.34E-02	2.48E-05	1.13E-05	2.38E-05	1.16E-05	5.3482E-02
520343.92	4258453.14	266266.6656	0.35164	0.50334	0.35122	0.54809	5.33E-02	1.44E-05	1.80E-05	1.44E-05	1.88E-05	5.3389E-02
520402.59	4258473.33	266153.5945	0.2911	0.35503	0.28913	0.38244	5.33E-02	1.19E-05	1.27E-05	1.18E-05	1.31E-05	5.3350E-02
520375.16	4258752.8	265915.2296	0.44653	0.27068	0.43217	0.28827	5.33E-02	1.83E-05	9.68E-06	1.77E-05	9.90E-06	5.3309E-02
520392.83	4258463.3	265844.8651	0.29798	0.37658	0.29628	0.40661	5.32E-02	1.22E-05	1.35E-05	1.21E-05	1.40E-05	5.3291E-02
520216.63	4258462.75	264630.2358	0.62262	1.37672	0.62815	1.56159	5.30E-02	2.55E-05	4.92E-05	2.57E-05	5.36E-05	5.3150E-02
520187.06	4258763.12	263888.1242	1.93265	0.65366	1.77452	0.69983	5.28E-02	7.91E-05	2.34E-05	7.27E-05	2.40E-05	5.3046E-02
520353.71	4258453.18	262862.6688	0.33899	0.47476	0.33853	0.51597	5.26E-02	1.39E-05	1.70E-05	1.39E-05	1.77E-05	5.2704E-02
520314.16	4258700.13	261162.3457	7.24378	1.67766	6.08165	1.63611	5.23E-02	2.97E-04	6.00E-05	2.49E-04	5.62E-05	5.2963E-02
520187.24	4258472.66	260427.5878	0.75188	1.93561	0.76986	2.22636	5.22E-02	3.08E-05	6.92E-05	3.15E-05	7.64E-05	5.2362E-02
520335.58	4258772.87	259144.4665	0.56913	0.30342	0.54817	0.32464	5.19E-02	2.33E-05	1.09E-05	2.24E-05	1.11E-05	5.1965E-02
520206.87	4258773.08	259050.9688	1.55684	0.56011	1.44638	0.60083	5.19E-02	6.37E-05	2.00E-05	5.92E-05	2.06E-05	5.2042E-02
520363.49	4258453.21	258977.3742	0.32698	0.44862	0.32645	0.48664	5.19E-02	1.34E-05	1.60E-05	1.34E-05	1.67E-05	5.1923E-02
520206.85	4258462.72	258866.4044	0.65224	1.53977	0.6628	1.75299	5.18E-02	2.67E-05	5.51E-05	2.71E-05	6.02E-05	5.2011E-02
520087.12	4258664.6	258363.6032	12.74651	2.981	18.45586	2.64286	5.17E-02	5.22E-04	1.07E-04	7.56E-04	9.07E-05	5.3216E-02
520276.2	4258772.97	256676.296	0.85189	0.38539	0.81148	0.41149	5.14E-02	3.49E-05	1.38E-05	3.32E-05	1.41E-05	5.1499E-02
520141.73	4258732.63	256623.9795	3.83162	1.05025	3.35374	1.08578	5.14E-02	1.57E-04	3.76E-05	1.37E-04	3.73E-05	5.1761E-02
520266.3	4258782.98	256470.7656	0.91741	0.40324	0.87187	0.43061	5.14E-02	3.76E-05	1.44E-05	3.57E-05	1.48E-05	5.1464E-02
520286.1	4258782.95	255805.192	0.79317	0.36835	0.75714	0.39339	5.12E-02	3.25E-05	1.32E-05	3.10E-05	1.35E-05	5.1319E-02
520402.62	4258463.33	255598.8879	0.2879	0.35852	0.28618	0.38632	5.12E-02	1.18E-05	1.28E-05	1.17E-05	1.33E-05	5.1237E-02
520256.39	4258783	255383.1981	0.99169	0.42204	0.94	0.45097	5.11E-02	4.06E-05	1.51E-05	3.85E-05	1.55E-05	5.1254E-02
520296	4258782.94	254762.9701	0.74166	0.35254	0.70949	0.37661	5.10E-02	3.04E-05	1.26E-05	2.90E-05	1.29E-05	5.1105E-02
520373.28	4258453.24	254623.1671	0.31558	0.42463	0.31492	0.45975	5.10E-02	1.29E-05	1.52E-05	1.29E-05	1.58E-05	5.1049E-02
520246.49	4258783.02	253428.8549	1.07633	0.44189	1.01717	0.47267	5.08E-02	4.41E-05	1.58E-05	4.16E-05	1.62E-05	5.0870E-02
520097.12	4258683.15	253416.173	12.10931	2.26049	10.86067	2.07137	5.08E-02	4.96E-04	8.09E-05	4.45E-04	7.11E-05	5.1842E-02
520365.27	4258762.82	253285.2267	0.47519	0.27482	0.45935	0.29328	5.07E-02	1.95E-05	9.83E-06	1.88E-05	1.01E-05	5.0782E-02
520158.97	4258749.74	252598.3106	2.83966	0.83794	2.54412	0.88279	5.06E-02	1.16E-04	3.00E-05	1.04E-04	3.03E-05	5.0867E-02
520197.06	4258462.69	252291.6997	0.68262	1.73545	0.69883	1.98428	5.05E-02	2.79E-05	6.21E-05	2.86E-05	6.81E-05	5.0712E-02
520168.27	4258756.76	252093.1011	2.47285	0.75827	2.23646	0.8046	5.05E-02	1.01E-04	2.71E-05	9.16E-05	2.76E-05	5.0733E-02
520421.9	4258689.97	251744.1056	0.33274	0.25629	0.32273	0.27138	5.04E-02	1.36E-05	9.17E-06	1.32E-05	9.32E-06	5.0461E-02
520305.9	4258782.92	251702.0506	0.69403	0.3374	0.6652	0.36056	5.04E-02	2.84E-05	1.21E-05	2.72E-05	1.24E-05	5.0487E-02
520177.45	4258472.63	251409.8641	0.78793	2.22526	0.81346	2.56992	5.03E-02	3.23E-05	7.96E-05	3.33E-05	8.82E-05	5.0582E-02
520412.38	4258473.36	250663.1889	0.2812	0.33854	0.27923	0.36398	5.02E-02	1.15E-05	1.21E-05	1.14E-05	1.25E-05	5.0246E-02
520177.15	4258763.13	250529.6518	2.19726	0.69461	2.0017	0.74042	5.02E-02	9.00E-05	2.48E-05	8.20E-05	2.54E-05	5.0394E-02
520345.49	4258772.85	250493.5783	0.53688	0.2911	0.51768	0.31126	5.02E-02	2.20E-05	1.04E-05	2.12E-05	1.07E-05	5.0229E-02
520236.59	4258783.03	250375.0473	1.17258	0.46282	1.10432	0.4957	5.01E-02	4.80E-05	1.66E-05	4.52E-05	1.70E-05	5.0268E-02
520196.97	4258773.1	249691.0664	1.73257	0.59042	1.60063	0.63293	5.00E-02	7.09E-05	2.11E-05	6.55E-05	2.17E-05	5.0183E-02
520394.94	4258742.77	248131.206	0.39856	0.25623	0.38599	0.27189	4.97E-02	1.63E-05	9.16E-06	1.58E-05	9.33E-06	4.9742E-02
520226.69	4258783.05	247488.3872	1.2898	0.48642	1.20948	0.52142	4.96E-02	5.28E-05	1.74E-05	4.95E-05	1.79E-05	4.9701E-02
520315.8	4258782.9	247326.6836	0.6505	0.32281	0.62439	0.34507	4.95E-02	2.66E-05	1.15E-05	2.56E-05	1.18E-05	4.9606E-02
520416.03	4258714.03	245546.9875	0.35091	0.2519	0.34006	0.26619	4.92E-02	1.44E-05	9.01E-06	1.39E-05	9.14E-06	4.9221E-02
520409	4258726.94	245313.165	0.36732	0.25203	0.35587	0.2666	4.91E-02	1.50E-05	9.01E-06	1.46E-05	9.15E-06	4.9175E-02
520385.06	4258752.79	245159.6552	0.42313	0.26012	0.40956	0.27664	4.91E-02	1.73E-05	9.30E-06	1.68E-05	9.50E-06	4.9149E-02
520187.27	4258462.66	244788.8737	0.71282	1.97383	0.73481	2.26647	4.90E-02	2.92E-05	7.06E-05	3.01E-05	7.78E-05	4.9230E-02
520412.41	4258463.36	242978.2668	0.27828	0.34184	0.27654	0.36759	4.87E-02	1.14E-05	1.22E-05	1.13E-05	1.26E-05	4.8707E-02
520216.79	4258783.07	242787.2272	1.42308	0.51119	1.32805	0.54828	4.86E-02	5.83E-05	1.83E-05	5.44E-05	1.88E-05	4.8771E-02
520325.7	4258782.89	241450.8261	0.61084	0.30912	0.58709	0.33048	4.84E-02	2.50E-05	1.11E-05	2.40E-05	1.13E-05	4.8425E-02
520324.37	4258443.08	241223.2356	0.37195	0.57686	0.37164	0.62995	4.83E-02	1.52E-05	2.06E-05	1.52E-05	2.16E-05	4.8381E-02
520167.66	4258472.59	241140.7983	0.82249	2.58344	0.85457	3.00397	4.83E-02	3.37E-05	9.24E-05	3.50E-05	1.03E-04	4.8556E-02
520314.58	4258443.05	241009.1733	0.38607	0.61572	0.38544	0.67405	4.83E-02	1.58E-05	2.20E-05	1.58E-05	2.31E-05	4.8342E-02
520334.16	4258443.11	240904.8753	0.35857	0.54146	0.35845	0.59009	4.82E-02	1.47E-05	1.94E-05	1.47E-05	2.03E-05	4.8381E-02
520355.39	4258772.84	240272.4157	0.5072	0.27954	0.48948	0.29865	4.81E-02	2.08E-05	1.00E-05	2.00E-05	1.03E-05	4.8179E-02
520343.95	4258443.14	240008.861	0.34581	0.50959	0.34585	0.55425	4.81E-02	1.42E-05	1.82E-05	1.42E-05	1.90E-05	4.8131E-02
520187.07	4258773.12	239428.0909	1.94813	0.62463	1.78773	0.66779	4.79E-02	7.98E-05	2.23E-05	7.32E-05	2.29E-05	4.8147E-02
520295.01	4258442.99	239152.214	0.41672	0.70592	0.41535	0.77776	4.79E-02	1.71E-05	2.52E-05	1.70E-05	2.67E-05	4.7980E-02
520375.17	4258762.8	238062.0925	0.45019	0.26429	0.43534	0.28165	4.77E-02	1.84E-05	9.45E-06	1.78E-05	9.67E-06	4.7731E-02
520285.22	4258442.96	237575.2974	0.43136	0.75904	0.43185	0.83938	4.76E-02	1.77E-05	2.71E-05	1.77E-05	2.88E-05	4.7669E-02
520087.12	4258673.87	236446.3864	12.85658	2.6129	18.37158	2.32301	4.74E-02	5.26E-04	9.35E-05	7.52E-04	7.98E-05	4.8803E-02
520353.74	4258443.18	236268.6616	0.33357	0.4807	0.3338	0.5217	4.73E-02	1.37E-05	1.72E-05	1.37E-05	1.79E-05	4.7378E-02
520142.45	4258732.63	236238.9639	3.81046	0.98381	3.33999	1.01135	4.73E-02	1.56E-04	3.52E-05	1.34E-04	3.47E-05	4.7673E-02
520177.48	4258462.63	236179.818	0.74183	2.26684	0.76908	2.61455	4.73E-02	3.04E-05	8.11E-05	3.15E-05	8.98E-05	4.7531E-02
520206.89	4258783.08	235761.4634	1.5723	0.53741	1.45975	0.57633	4.72E-02	6.44E-05	1.92E-05	5.98E-05	1.98E-05	4.7378E-02
520275.43	4258442.93	235583.6796	0.45095	0.81889	0.44968	0.90908	4.72E-02	1.85E-05	2.93E-05	1.84E-05	3.12E-05	4.7276E-02
520335.6	4258782.87	234839.5472	0.57503	0.29643	0.55335	0.31687	4.70E-02	2.35E-05	1.06E-05	2.27E-05	1.09E-05	4.7098E-02
520103.97	4258699.66	233834.4791	9.93242	1.8214	8.39205	1.70369	4.68E-02	4.07E-04	6.51E-05	3.44E-04	5.85E-05	4.7702E-02
520266.31	4258792.98	233803.0397	0.92743	0.39044	0.88119	0.41683	4.68E-02	3.80E-05	1.40E-05	3.61E-05	1.43E-05	4.6925E-02
520363.53	4258443.21	233771.3798	0.32207	0.44387	0.32219	0.49182	4.68E-02	1.32E-05	1.62E-05	1.32E-05	1.69E-05	4.6875E-02
520276.21	4258792.97	233694.8542	0.86063	0.37373	0.81961	0.39873	4.68E-02	3.52E-05	1.34E-05	3.36E-05	1.37E-05	4.6896E-02
520265.64	4258442.9	233179.6908	0.46951	0.88695	0.46905	0.98842	4.67E-02	1.92E-05	3.17E-05	1.92E-05	3.39E-05	4.6802E-02
520286.11	4258792.95	232953.0811	0.80159	0.35789	0.76493	0.38178	4.67E-02	3.28E-05	1.28E-05	3.13E-05	1.31E-05	4.6742E-02
520403.39	4258739.27	232943.7265	0.38078	0.25008	0.36874	0.26497	4.67E-02	1.56E-05	8.95E-06	1.51E-05	9.10E-06	4.6699E-02

520148.08	4258472.53	214158.7477	0.87805	3.61933	0.92759	4.29585	4.29E-02	3.60E-05	1.29E-04	3.80E-05	1.47E-04	4.3239E-02
520431.9	4258690.02	214080.6618	0.31853	0.24697	0.30884	0.26121	4.29E-02	1.30E-05	8.83E-06	1.26E-05	8.97E-06	4.2916E-02
520402.68	4258443.33	214077.0715	0.28121	0.36553	0.2803	0.39405	4.29E-02	1.15E-05	1.31E-05	1.15E-05	1.35E-05	4.2921E-02
520266.33	4258802.98	213740.7791	0.93603	0.3777	0.88919	0.40336	4.28E-02	3.83E-05	1.35E-05	3.64E-05	1.38E-05	4.2907E-02
520431.95	4258473.42	213557.8253	0.26262	0.30869	0.26057	0.33076	4.28E-02	1.08E-05	1.10E-05	1.07E-05	1.14E-05	4.2812E-02
520276.23	4258802.97	213446.4269	0.86832	0.36209	0.82678	0.38626	4.27E-02	3.56E-05	1.30E-05	3.39E-05	1.33E-05	4.2841E-02
520285.25	4258432.96	213441.1795	0.42328	0.7668	0.42252	0.84945	4.27E-02	1.73E-05	2.74E-05	1.73E-05	2.92E-05	4.2836E-02
520335.62	4258792.87	213154.6843	0.57976	0.28938	0.55742	0.30897	4.27E-02	2.37E-05	1.04E-05	2.28E-05	1.06E-05	4.2755E-02
520353.77	4258433.18	212840.5526	0.32816	0.4865	0.32868	0.5273	4.26E-02	1.34E-05	1.74E-05	1.35E-05	1.81E-05	4.2687E-02
520256.43	4258803	212799.6083	1.01055	0.39372	0.95747	0.42108	4.26E-02	4.14E-05	1.41E-05	3.92E-05	1.45E-05	4.2725E-02
520286.13	4258802.95	212483.1326	0.80825	0.34726	0.77113	0.37019	4.26E-02	3.31E-05	1.24E-05	3.16E-05	1.27E-05	4.2642E-02
520296.03	4258802.94	211715.2387	0.75628	0.33358	0.72299	0.35547	4.24E-02	3.10E-05	1.19E-05	2.96E-05	1.22E-05	4.2484E-02
520275.46	4258432.93	211592.3176	0.43976	0.82738	0.43986	0.92014	4.23E-02	1.80E-05	2.96E-05	1.80E-05	3.16E-05	4.2431E-02
520246.53	4258803.02	211116.0914	1.09511	0.4107	1.03444	0.43987	4.23E-02	4.48E-05	1.47E-05	4.24E-05	1.51E-05	4.2396E-02
520158.16	4258769.39	210946.5181	2.9192	0.76407	2.61193	0.79631	4.22E-02	1.20E-04	2.73E-05	1.07E-04	2.73E-05	4.2526E-02
520363.56	4258433.21	210907.3024	0.31713	0.45922	0.31765	0.49697	4.22E-02	1.30E-05	1.64E-05	1.30E-05	1.71E-05	4.2297E-02
520114.24	4258724.43	210876.955	7.37375	1.3774	6.20592	1.31766	4.22E-02	3.02E-04	4.93E-05	2.54E-04	4.52E-05	4.2881E-02
520431.98	4258463.42	210554.9306	0.26019	0.31163	0.25838	0.33387	4.22E-02	1.07E-05	1.11E-05	1.06E-05	1.15E-05	4.2210E-02
520265.67	4258432.9	209118.5107	0.45712	0.8971	0.4587	1.00122	4.19E-02	1.87E-05	3.21E-05	1.88E-05	3.44E-05	4.1983E-02
520236.63	4258803.03	209053.606	1.1939	0.42946	1.12368	0.46047	4.19E-02	4.89E-05	1.54E-05	4.60E-05	1.58E-05	4.1992E-02
520177.19	4258783.13	209003.0659	2.23167	0.6347	2.03036	0.67263	4.19E-02	9.14E-05	2.27E-05	8.31E-05	2.31E-05	4.2076E-02
520305.93	4258802.92	208960.6583	0.70728	0.32002	0.67727	0.34104	4.18E-02	2.90E-05	1.14E-05	2.77E-05	1.17E-05	4.1927E-02
520423.08	4258721.11	208727.7454	0.34177	0.24207	0.33093	0.25552	4.18E-02	1.40E-05	8.66E-06	1.35E-05	8.77E-06	4.1846E-02
520206.91	4258442.72	208708.8656	0.59705	1.59306	0.61427	1.81164	4.18E-02	2.44E-05	5.70E-05	2.52E-05	6.22E-05	4.1966E-02
520197.01	4258793.1	208512.9188	1.76477	0.54344	1.62783	0.58119	4.18E-02	7.23E-05	1.94E-05	6.67E-05	2.00E-05	4.1936E-02
520373.35	4258433.24	207710.5792	0.30655	0.43428	0.30705	0.46927	4.16E-02	1.26E-05	1.55E-05	1.26E-05	1.61E-05	4.1654E-02
520365.3	4258782.82	207489.7631	0.48412	0.26279	0.46705	0.28042	4.16E-02	1.98E-05	9.40E-06	1.91E-05	9.63E-06	4.1611E-02
520226.73	4258803.05	206564.5714	1.31089	0.45032	1.22841	0.48309	4.14E-02	5.37E-05	1.61E-05	5.03E-05	1.66E-05	4.1504E-02
520255.88	4258432.87	206349.1248	0.47518	0.97679	0.4788	1.09379	4.13E-02	1.95E-05	3.49E-05	1.96E-05	3.76E-05	4.1436E-02
520345.52	4258792.85	206066.8463	0.54641	0.27788	0.52589	0.29664	4.13E-02	2.24E-05	9.94E-06	2.15E-05	1.02E-05	4.1332E-02
520093.83	4258699.33	205898.5203	13.79158	1.91017	12.67456	1.72941	4.12E-02	5.65E-04	6.83E-05	5.19E-04	5.94E-05	4.2445E-02
520412.47	4258443.36	204975.2615	0.2721	0.3481	0.27103	0.37458	4.10E-02	1.11E-05	1.25E-05	1.11E-05	1.29E-05	4.1007E-02
520149.06	4258765.63	204575.5117	3.3925	0.82859	3.00749	0.85155	4.10E-02	1.39E-04	2.96E-05	1.23E-04	2.92E-05	4.1290E-02
520315.83	4258802.9	203792.3235	0.66007	0.30613	0.63274	0.32637	4.08E-02	2.70E-05	1.09E-05	2.59E-05	1.12E-05	4.0887E-02
520216.82	4258803.07	203255.2472	1.44832	0.47297	1.35013	0.50718	4.07E-02	5.93E-05	1.69E-05	5.53E-05	1.74E-05	4.0854E-02
520394.97	4258762.77	203214.8005	0.40563	0.24514	0.39227	0.26045	4.07E-02	1.66E-05	8.77E-06	1.61E-05	8.94E-06	4.0747E-02
520246.09	4258432.84	203127.0727	0.49386	1.06829	0.50005	1.20013	4.07E-02	2.02E-05	3.82E-05	2.05E-05	4.12E-05	4.0799E-02
520197.12	4258442.69	202538.6745	0.61856	1.79595	0.63886	2.05024	4.06E-02	2.53E-05	6.42E-05	2.62E-05	7.04E-05	4.0747E-02
520148.11	4258462.53	200932.1458	0.80881	1.67784	0.8592	4.35665	4.02E-02	3.31E-05	1.32E-04	3.52E-05	1.50E-04	4.0589E-02
520187.11	4258793.12	200787.8364	1.98234	0.57412	1.81606	0.61108	4.02E-02	8.12E-05	2.05E-05	7.44E-05	2.10E-05	4.0408E-02
520385.09	4258772.79	200559.1487	0.43046	0.24868	0.41595	0.26476	4.02E-02	1.76E-05	8.89E-06	1.70E-05	9.09E-06	4.0217E-02
520392.92	4258433.3	200428.8146	0.287	0.3886	0.28681	0.41934	4.01E-02	1.18E-05	1.39E-05	1.17E-05	1.44E-05	4.0190E-02
520236.31	4258432.81	199462.4937	0.51298	1.17466	0.52217	1.32345	3.99E-02	2.10E-05	4.20E-05	2.14E-05	4.54E-05	4.0075E-02
520325.73	4258802.89	199273.7708	0.61991	0.29381	0.59498	0.31331	3.99E-02	2.54E-05	1.05E-05	2.44E-05	1.08E-05	3.9978E-02
520167.29	4258783.15	198863.2449	2.5697	0.67594	2.31665	0.70867	3.98E-02	1.05E-04	2.42E-05	9.49E-05	2.43E-05	4.0074E-02
520139.95	4258761.88	198290.2813	4.05938	0.9026	3.54853	0.91046	3.97E-02	1.66E-04	3.23E-05	1.45E-04	3.13E-05	4.008SE-02
520355.42	4258792.84	198013.5413	0.51587	0.26707	0.4969	0.28501	3.97E-02	2.11E-05	9.55E-06	2.03E-05	9.78E-06	3.9716E-02
520206.92	4258803.08	197749.7573	1.59789	0.49629	1.4819	0.53155	3.96E-02	6.54E-05	1.78E-05	6.07E-05	1.82E-05	3.9764E-02
520138.29	4258472.5	197255.1718	0.8949	4.40995	0.96146	5.28675	3.95E-02	3.66E-05	1.58E-04	3.94E-05	1.81E-04	3.9918E-02
520324.43	4258423.08	196417.2477	0.35814	0.58896	0.35734	0.6438	3.93E-02	1.47E-05	2.11E-05	1.46E-05	2.21E-05	3.9408E-02
520334.22	4258423.11	196290.9018	0.3459	0.5531	0.34533	0.60277	3.93E-02	1.42E-05	1.98E-05	1.41E-05	2.07E-05	3.9379E-02
520266.35	4258812.98	196118.2727	0.94412	0.36537	0.8967	0.39043	3.93E-02	3.87E-05	1.31E-05	3.67E-05	1.34E-05	3.9377E-02
520314.65	4258423.05	196098.8963	0.37096	0.62869	0.3701	0.68944	3.93E-02	1.52E-05	2.25E-05	1.52E-05	2.37E-05	3.9348E-02
520276.25	4258812.97	196035.8747	0.87684	0.35098	0.83472	0.3745	3.93E-02	3.59E-05	1.26E-05	3.42E-05	1.29E-05	3.9352E-02
520344.01	4258423.14	195698.1136	0.33417	0.5211	0.334	0.56615	3.92E-02	1.37E-05	1.86E-05	1.37E-05	1.94E-05	3.9257E-02
520375.21	4258782.8	195572.2458	0.45779	0.25264	0.44185	0.26935	3.92E-02	1.87E-05	9.04E-06	1.81E-05	9.25E-06	3.9221E-02
520187.33	4258442.66	195557.629	0.63883	2.04026	0.66172	2.33996	3.92E-02	2.62E-05	7.30E-05	2.71E-05	8.03E-05	3.9370E-02
520264.44	4258813	195392.1453	1.01941	0.38046	0.96562	0.40718	3.91E-02	4.17E-05	1.36E-05	3.95E-05	1.40E-05	3.9239E-02
520226.52	4258432.78	195301.4102	0.53233	1.29889	0.54473	1.46757	3.91E-02	2.18E-05	4.65E-05	2.23E-05	5.04E-05	3.9253E-02
520286.15	4258812.95	195224.8841	0.81657	0.33721	0.7789	0.35942	3.91E-02	3.34E-05	1.21E-05	3.19E-05	1.23E-05	3.9186E-02
520158.43	4258779.5	194741.8635	2.95339	0.72792	2.6243	0.75473	3.90E-02	1.20E-04	2.60E-05	1.07E-04	2.59E-05	3.9279E-02
520422.26	4258443.39	194401.6065	0.2634	0.33214	0.26221	0.3567	3.89E-02	1.08E-05	1.19E-05	1.07E-05	1.22E-05	3.8977E-02
520295.07	4258422.99	194161.071	0.39858	0.72086	0.39837	0.7965	3.89E-02	1.63E-05	2.58E-05	1.63E-05	2.73E-05	3.8969E-02
520296.05	4258812.94	194111.846	0.76305	0.32425	0.72932	0.34532	3.89E-02	3.12E-05	1.16E-05	2.99E-05	1.19E-05	3.8958E-02
520246.54	4258813.02	194066.3475	1.10517	0.39663	1.04359	0.42505	3.89E-02	4.53E-05	1.42E-05	4.27E-05	1.46E-05	3.8981E-02
520335.64	4258802.87	193919.0266	0.58328	0.28217	0.56043	0.30093	3.88E-02	2.39E-05	1.01E-05	2.29E-05	1.03E-05	3.8902E-02
520402.71	4258433.13	193422.1501	0.22762	0.36874	0.22722	0.39741	3.87E-02	1.14E-05	1.32E-05	1.14E-05	1.36E-05	3.8785E-02
520353.8	4258423.18	192785.843	0.32278	0.49193	0.32321	0.53277	3.86E-02	1.32E-05	1.76E-05	1.32E-05	1.83E-05	3.8670E-02
520285.28	4258422.96	192546.662	0.41332	0.77507	0.41402	0.85974	3.86E-02	1.69E-05	2.77E-05	1.70E-05	2.95E-05	3.8651E-02
520441.74	4258471.45	192412.8908	0.25395	0.29529	0.25184	0.31591	3.85E-02	1.04E-05	1.06E-05	1.03E-05	1.08E-05	3.8575E-02
520236.64	4258813.03	192406.3744	1.20554	0.41461	1.13412	0.4447	3.85E-02	4.94E-05	1.48E-05	4.64E-05	1.53E-05	3.8658E-02
520177.2	4258793.13	192359.1079	2.25003	0.60857	2.04536	0.64265	3.85E-02	9.21E-05	2.18E-05	8.37E-05	2.21E-05	3.8742E-02
520197.02	4258803.1	191554.9598	1.77648	0.52204	1.63785	0.55739	3.84E-02	7.27E-05	1.87E-05	6.71E-05	1.91E-05	3.8539E-02
520305.95	4258812.92	191547.2	0.71344	0.31148	0.68294	0.33162	3.84E-02	2.92E-05	1.11E-05	2.80E-05	1.14E-05	3.8440E-02
520363.59	4258423.21	191338.3338	0.31222	0.46434	0.31276	0.50201	3.83E-02	1.28E-05	1.66E-05	1.28E-05	1.72E-05	3.8378E-02
520216.73	4258432.75	190597.7787	0.55157	1.44442	0.56698	1.63709	3.82E-02	2.26E-05	5.17E-05	2.32E-05	5.62E-05	3.8323E-02
520275.49	4258422.93	190546.8685	0.42873	0.83705	0.43084	0.9318	3.82E-02	1.76E-05	2.99E-05	1.76E-05	3.20E-05	3.8257E-02
520226.74	4258813.05	190151.7661	1.32287	0.43432	1.23901	0.46592	3.81E-02	5.42E-05	1.55E-05	5.07E-05	1.60E-05	3.8217E-02
520149.58	4258775.84	189356.0931	3.38696	0.78499	3.00326	0.80261	3.79E-02	1.39E-04	2.81E-05	1.23E-04	2.76E-05	3.8238E-02
520436.01	4258704.14	189056.4673	0.31698	0.23785	0.30691	0.251	3.79E-02	1.30E-05	8.51E-06	1.26E-05	8.62E-06	3.7904E-02
520365.32	4258792.82	188808.2097	0.48746	0.2568	0.46983	0.27391	3.78E-02	2.00E-05	9.19E-06	1.92E-05	9.40E-06	3.7869E-02
520373.38	4258423.24	188580.9163	0.30203	0.43911	0.3027	0.47394	3.78E-02	1.24E-05	1.57E-05	1.24E-05	1.63E-05	3.7823E-02
520265.7	4258422.9	188322.7336	0.44481	0.90838	0.44882	1.01438	3.77E-02	1.82E-05	3.25E-05	1.84E-05	3.48E-05	3.7818E-02
520177.54	4258442.63	187623.7884	0.65717	2.33796	0.68318	2.69635	3.76E-02	2.69E-05	8.36E-05	2.80E-05	9.26E-05	3.7805E-02
520345.54	4258802.85	187559.4304	0.54951	0.27108	0.52846	0.28911	3.76E-02	2.25E-05	9.70E-06	2.16E-05	9.93E-06	3.7625E-02
520216.84	4258813.07	187056.5774	1.4594	0.45568	1.35981	0.48841	3.75E-02	5.98E-05	1.63E-05	5.57E-05	1.68E-05	3.7609E-02
520315.85	4258812.9	186296.7234	0.66429	0.2979	0.63655	0.31725	3.73E-02	2.72E-05	1.07E-05	2.61E-05	1.09E-05	3.7383E-02
520255.91	4258422.87	185610.8294	0.46134	0.98995	0.46765	1.10865	3.72E-02	1.89E-05	3.54E-05	1.91E-05	3.81E-05	3.7283E-02
520412.5	4258433.36	185599.7911	0.26877	0.3509	0.26818	0.37761	3.72E-02	1.10E-05	1.26E-05	1.10E-05	1.30E-05	3.7216E-02
520107.24	4258731.68	185526.4428	9.09798	1.35343	7.68892	1.26197	3.72E-02	3.73E-04	4.84E-05	3.11E-04	4.33E-05	3.7933E-02
520394.99	4258772.77	185488.7999	0.40896	0.23983	0.39515	0.25495	3.71E-02	1.67E-05	8.58E-06	1.62E-05	8.75E-06	3.7197E-02
520206.94	4258432.72	185320.941	0.57034	1.61671	0.58823	1.83868	3.71E-02	2.34E-05	5.78E-05	2.41E-05	6.31E-05	3.7281E-02
520138.33	4258462.5	184931.8488	0.81745	4.47154	0.88319	5.15422	3.70E-02	3.35E-05	1.60E-04	3.62E-05	1.84E-04	3.7448E-02
520187.12	4258803.12	184864.8822	1.99526	0.55126	1.82697	0.5852	3.70E-02	8.17E-05	1.97E-05	7.48E-05	2.01E-05	3.7218E-02
520140.73	4258772.19	184062.2678	4.01535	0.85006	3.51661	0.85345	3.69E-02	1.64E-04	3.04E-05	1.44E-04	2.93E-05	3.7229E-02
520167.3	4258793.15	183624.4795	2.50056	0.64743	2.3335	0.67564	3.68E-02	1.06E-04	2.32E-05	9.55E-05	2.32E-05	3.7021E-02
520411.07	4258756.11	183390.5332	0.37236	0.23475	0.36004	0.24865	3.67E-02	1.52E-05	8.40E-06	1.47E-05	8.54E-06	3.6773E-02
520385.11	4258782.79	183112.6465	0.43397	0.24332	0.41893	0.25912	3.67E-02	1.78E-05	8.70E-06	1.72E-05	8.90E-06	3.6723E-02
520428.73	4258728.78	183090.0379	0.33535	0.23381	0.32447	0.2466	3.67E-02	1.37E-05	8.36E-06	1.33E-05	8.47E-06	3.6710E-02
520246.13	4258422.84	182472.2597	0.47819	1.08341	0.48707	1.21672	3.65E-02	1.96E-05	3.88E-05	1.99E-05	4.18E-05	3.6663E-02
520206.94	4258813.08	182365.2289	1.61136	0.47831	1.49342	0.51146	3.65E-02	6.60E-05	1.71E-05	6.11E-05	1.76E-05	3.6683E-02
520325.75	4258812.89	182321.7009	0.62409	0.28635	0.59869	0.30498	3.65E-02	2.56E-05	1.02E-05	2.45E-05	1.05E-05	3.6583E-02
520392.95	4258423.3	182104.9377	0.2832	0.39288	0.28343	0.42344	3.65E-02	1.16E-05	1.41E-05	1.16E-05	1.45E-05	3.6521E-02
520441.9	4258690.08	182084.2742	0.30469	0.23783	0.29524	0.25126	3.65E-02	1.25E-05	8.51E-06	1.21E-05	8.63E-06	3.6507E-02
520432.05	4258443.42	181597.4737	0.25502	0.31715	0.25371	0.33999	3.64E-02	1.04E-05	1.13E-05	1.04E-05	1.17E-05	3.6411E-02
520121.74	4258754.36	180686.7276	6.0718	1.06469	5.19645	1.02563	3.62E-02	2.49E-04	3.81E-05	2.13E-04	3.52E-05	3.6720E-02
520266.36	4258822.98	180554.3231	0.95179	0.35353	0.90379	0.37807	3.62E-02	3.90E-05	1.26E-05	3.70E-05	1.30E-05	3.6260E-02
520276.26	4258822.97	180362.9385	0.88393	0.33997	0.84131	0.36299	3.61E-02	3.62E-05	1.22E-05	3.44E-05	1.25E-05	3.6215E-02
520355.44	4258802.84	180360.7595	0.51855	0.26062	0.49906	0.27791	3.61E-02	2.12E-05	9.32E-06	2.04E-05	9.54E-06	3.6180E-02
520158.65	4258789.58	180244.5667	2.9486	0.69461	2.63478	0.71656	3.61E-02	1.21E-04	2.48E-05	1.08E-04	2.46E-05	3.6374E-02
520256.46	4258823	180052.9254	1.02791	0.36787	0.9734	0.39397	3.61E-02	4.21E-05	1.32E-05	3.99E-05	1.35E-05	3.6167E-02
520286.16	4258822.95	179581.7543	0.82329	0.32711	0.78517	0.34875	3.60E-02	3.37E-05	1.17E-05	3.21E-05	1.20E-05	3.6053E-02
520197.15	4258432.69	179375.9124	0.58818	1.82128	0.60795	2.08036	3.59E-02	2.41E-05	6.51E-05	2.49E-05	7.14E-05	3.6108E-02
520246.56	4258823.02	178911.4446	1.11408	0.38319	1.05167	0.41085	3.58E-02	4.56E-05	1.37E-05	4.31E-05	1.41E-05	3.5946E-02
520236.34	4258422.81	178899.4429	0.49521	1.19195	0.50678	1.34212	3.58E-02	2.03E-05	4.26E-05	2.07E-05	4.61E-05	3.5957E-02
520375.22	4258792.8	178707.6055	0.46125	0.24713	0.44474	0.26342	3.58E-02	1.89E-05	8.84E-06	1.82E-05	9.04E-06	3.5844E-02
520324.47	4258413.08	178558.975	0.35132	0.59455	0.35068	0.65067	3.58E-02	1.44E-05	2.13E-05	1.44E-05	2.23E-05	3.5831E-02
520167.75	4258442.59	178540.1828	0.67267	2.70649	0.70409	3.14241	3.58E-02	2.75E-05	9.68E-05	2.88E-05	1.08E-04	3.6016E-02
520334.25	4258413.11	178513.645	0.33964	0.55841	0.33896	0.60909	3.57E-02	1.39E-05	2.00E-05	1.39E-05	2.09E-05	3.5818E-02
520296.06	4258822.94	178423.8032	0.76924	0.31493	0.73501	0.33537	3.57E-02	3.15E-05	1.13E-05	3.01E-05	1.15E-05	3.5816E-02
520314.68	4258413.05	178189.4228	0.36353	0.6349	0.36323	0.69712	3.57E-02	1.49E-05	2.27E-05	1.49E-05	2.39E-05	3.5761E-02
520344.04	4258413.14	178031.8951	0.32842	0.52604	0.32797	0.57184	3.57E-02	1.34E-05	1.88E-05	1.34E-05	1.96E-05	3.5719E-02
520177.22	4258803.13	177491.675	2.26229	0.58368	2.05577	0.61415	3.55E-02	9.26E-05	2.09E-05	8.42E-05	2.11E-05	3.5764E-02
520335.65	4258812.87	177422.0426	0.58695	0.2752	0.56361	0.29315	3.55E-02	2.40E-05	9.84E-06	2.31E-05	1.01E-05	3.5598E-02
520266.66	4258823.03	177393.4506	1.21438	0.40017	1.14205	0.42932	3.55E-02	4.97E-05	1.43E-05	4.68E-05	1.47E-05	3.5653E-02
520128.51	4258472.47	177073.1248	0.89933	5.50615	0.98413	6.65546	3.55E-02	3.68E-05	1.97E-04	4.03E-05	2.28E-04	3.5964E-02
520197.04	4258813.1	177018.7617	1.79251	0.50297	1.65129	0.53586	3.55E-02	7.34E-05	1.80E-05	6.76E-05	1.84E-05	3.5628E-02
520422.29	4258433.39	176898.9115	0.26043	0.3349	0.25967	0.35974	3.54E-02	1.07E-05	1.20E-05	1.06E-05	1.24E-05	3.5472E-02
520295.1	4258412.99	176221.1654	0.38967	0.72871	0.39092	0.80597	3.53E-02	1.60E-05	2.61E-05	1.60E-05	2.77E-05	3.5376E-02
520305.97	4258822.92	176139.1127	0.71918	0.30297	0.6882	0.32239	3.53E-02	2.94E-05	1.08E-05	2.82E-05	1.11E-05	3.5354E-02
520402.74	4258423.13	176057.6708	0.27412	0.37259	0.2742	0.40118	3.53E-02	1.12E-05	1.33E-05	1.12E-05	1.38E-05	3.5308E-02
520149.99	4258786	175979.8141	3.3971	0.74655	3.00982	0.75915	3.52E-02	1.39E-04	2.67E-05	1.23E-04	2.61E-05	3.5557E-02
520353.83	4258413.18	175928.4883	0.31752	0.49677	0.31759	0.5381	3.52E-02	1.30E-05	1.78E-05	1.30E-05	1.85E-05	3.5294E-02
520402.74	4258826.05	175469.4524	1.33266	0.41906	1.24767	0.44949	3.51E-02	5.46E-05	1.50E-05	5.11E-05	1.54E-05	3.5276E-02
520226.55	4258422.78	174863.0099	0.51212	1.31832	0.5262	1.48842	3.50E-02	2.10E-05	4.72E-05	2.15E-05	5.11E-05	3.5159E-02
520448.95	4258466.52	174759.6949	0.24639	0.28787	0.2444	0.30754	3.50E-02	1.01E-05	1.03E-05	1.00E-05	1.06E-05	3.5039E-02
520285.31	4258412.96	174654.1498	0.4035	0.78409	0.40608	0.87038	3.50E-02	1.65E-05	2.80E-05	1.66E-05	2.99E-05	3.5068E-02
520363.62	4258413.21	174273.3874	0.30729	0.46916	0.30762	0.50697	3.49E-02	1.26E-05	1.68E-05	1.26E-05	1.74E-05	3.4960E-02
520216.86	4258823.07	172748.7269	1.46987	0.43952	1.36893	0.47074	3.46E-02	6.02E-05	1.57E-05	5.60E-05	1.62E-05	3.4743E-02
520275.52	4258412.93	172748.4598	0.41784	0.84773	0.42215	0.94393	3.46E-02	1.71E-05	3.03E-05	1.73E-05	3.24E-05	3.4692E-02
520187.36	4258432.66	172682.1728	0.60461	2.0672	0.62643	2.3736	3.46E-02	2.48E-05	7.39E-05	2.56E-05	8.15E-05	3.4788E-02
520365.34	4258802.82	172275.3653	0.48991	0.25067	0.47175	0.26722	3.45E-02	2.01E-05	8.97E-06	1.93E-05	9.17E-06	3.4558E-02
520373.41	4258413.24	172051.1507	0.29751	0.44371	0.29805	0.47851	3.45E-02	1.22E-05	1.59E-05	1.22E-05	1.64E-05	3.4512E-02
520345.55	4258812.85	171701.9901	0.55278	0.26454	0.53123	0.28181	3.44E-02	2.26E-05	9.46E-06	2.18E-05	9.67E-06	3.4449E-02
520141.34	4258782.43	171316.7144	3.99191	0.80372	3.499	0.80306	3.43E-02	1.63E-04	2.87E-05	1.43E-04	2.76E-05	3.4672E-02
520315.87	4258822.9	171206.8967	0.66902	0.29001	0.64089	0.30857	3.43E-02	2.74E-05	1.04E-05	2.62E-05	1.06E-05	3.4361E-02
520187.14	4258813.12	170338.6619	2.0109	0.53058	1.83994	0.5615	3.43E-02	8.23E-05	1.90E-05	7.53E-05	1.93E-05	3.4449E-02
520112.64	4258750.6	170812.8866	7.73874	1.14697	6.58766	1.0782	3.42E-02	3.17E-04	4.10E-05	2.70E-04	3.70E-05

520226.78	4258833.05	162372.7783	1.34136	0.40467	1.25535	0.43391	3.25E-02	5.49E-05	1.45E-05	5.14E-05	1.49E-05	3.2653E-02
520305.98	4258832.92	162337.9309	0.72446	0.29454	0.69304	0.31342	3.25E-02	2.97E-05	1.05E-05	2.84E-05	1.08E-05	3.2590E-02
520427.16	4258749.44	162079.8507	0.34395	0.22567	0.3324	0.23827	3.25E-02	1.41E-05	8.07E-06	1.36E-05	8.18E-06	3.2503E-02
520422.32	4258423.39	161721.2167	0.2574	0.33785	0.25712	0.36279	3.24E-02	1.05E-05	1.21E-05	1.05E-05	1.25E-05	3.2432E-02
520353.86	4258403.18	161425.883	0.31233	0.50109	0.31211	0.54328	3.23E-02	1.28E-05	1.79E-05	1.28E-05	1.87E-05	3.2390E-02
520236.37	4258412.81	161287.0097	0.4776	1.20912	0.49059	1.36027	3.23E-02	1.96E-05	4.32E-05	2.01E-05	4.67E-05	3.2430E-02
520447.78	4258699.98	161212.7576	0.2996	0.22936	0.28994	0.24187	3.23E-02	1.23E-05	8.20E-06	1.19E-05	8.30E-06	3.2326E-02
520114.17	4258761.23	161131.605	7.43267	1.06019	6.346	0.99672	3.23E-02	3.04E-04	3.79E-05	2.60E-04	3.42E-05	3.2905E-02
520402.77	4258413.33	161116.7456	0.2706	0.37655	0.27097	0.40492	3.23E-02	1.11E-05	1.35E-05	1.11E-05	1.39E-05	3.2315E-02
520295.13	4258402.99	160729.2521	0.3808	0.73683	0.38381	0.8154	3.22E-02	1.56E-05	2.64E-05	1.57E-05	2.80E-05	3.2274E-02
520216.87	4258833.07	160163.0211	1.48145	0.4246	1.37893	0.45427	3.21E-02	6.07E-05	1.52E-05	5.65E-05	1.56E-05	3.2223E-02
520141.83	4258792.63	159775.9844	3.97828	0.7621	3.48837	0.75788	3.20E-02	1.63E-04	2.73E-05	1.43E-04	2.60E-05	3.2356E-02
520197.18	4258422.69	159541.8069	0.55917	1.84696	0.57814	2.10875	3.20E-02	2.29E-05	6.61E-05	2.37E-05	7.34E-05	3.2135E-02
520363.65	4258403.21	159531.3285	0.30239	0.47358	0.30246	0.51182	3.19E-02	1.24E-05	1.69E-05	1.24E-05	1.76E-05	3.2008E-02
520285.34	4258402.96	159193.7486	0.39371	0.79378	0.39828	0.88119	3.19E-02	1.61E-05	2.84E-05	1.63E-05	3.03E-05	3.1972E-02
520124.03	4258775.29	159146.0857	5.7937	0.92604	4.98121	0.88817	3.19E-02	2.37E-04	3.31E-05	2.04E-04	3.05E-05	3.2376E-02
520436.03	4258735.77	158942.7222	0.32635	0.22491	0.31536	0.23699	3.18E-02	1.34E-05	8.04E-06	1.29E-05	8.14E-06	3.1873E-02
520187.16	4258823.12	158731.8014	2.02555	0.51127	1.85211	0.53929	3.18E-02	8.29E-05	1.83E-05	7.58E-05	1.85E-05	3.1984E-02
520365.35	4258812.82	158366.3472	0.49307	0.24513	0.47438	0.26106	3.17E-02	2.02E-05	8.77E-06	1.94E-05	8.96E-06	3.1772E-02
520315.88	4258832.9	158232.7206	0.67475	0.28265	0.64622	0.3006	3.17E-02	2.76E-05	1.01E-05	2.65E-05	1.03E-05	3.1763E-02
520167.34	4258813.15	158102.953	2.62789	0.59619	2.36368	0.61634	3.17E-02	1.08E-04	2.13E-05	9.68E-05	2.12E-05	3.1909E-02
520345.57	4258822.85	157987.8639	0.55628	0.25831	0.53427	0.27483	3.16E-02	2.28E-05	9.24E-06	2.19E-05	9.44E-06	3.1703E-02
520373.44	4258403.24	157685.0845	0.29299	0.44797	0.29326	0.483	3.16E-02	1.20E-05	1.60E-05	1.20E-05	1.66E-05	3.1635E-02
520226.58	4258412.78	157379.4303	0.49225	1.33715	0.50691	1.50844	3.15E-02	2.02E-05	4.78E-05	2.08E-05	5.18E-05	3.1658E-02
520275.55	4258402.93	157313.0647	0.40691	0.85871	0.4133	0.95587	3.15E-02	1.67E-05	3.07E-05	1.69E-05	3.28E-05	3.1601E-02
520451.31	4258691.54	157296.8495	0.29278	0.22925	0.28349	0.24191	3.15E-02	1.20E-05	8.20E-06	1.16E-05	8.30E-06	3.1541E-02
520410.65	4258776.29	156891.8701	0.37934	0.22539	0.36622	0.23904	3.14E-02	1.55E-05	8.06E-06	1.50E-05	8.21E-06	3.1467E-02
520395.02	4258792.77	156600.8931	0.41499	0.22968	0.4002	0.24431	3.14E-02	1.70E-05	8.22E-06	1.64E-05	8.39E-06	3.1411E-02
520167.78	4258432.59	156542.6314	0.63036	2.73836	0.66219	3.1838	3.13E-02	2.58E-05	9.79E-05	2.71E-05	1.09E-04	3.1610E-02
520206.97	4258833.08	156386.236	1.63337	0.44502	1.51231	0.47449	3.13E-02	6.69E-05	1.59E-05	6.19E-05	1.63E-05	3.1479E-02
520158.97	4258809.7	155740.5579	2.97708	0.63577	2.65712	0.64928	3.12E-02	1.22E-04	2.27E-05	1.09E-04	2.23E-05	3.1465E-02
520412.56	4258413.36	155285.7442	0.26227	0.35794	0.26255	0.38448	3.11E-02	1.07E-05	1.28E-05	1.07E-05	1.32E-05	3.1146E-02
520266.4	4258842.98	155169.1058	0.96982	0.33221	0.92032	0.3557	3.11E-02	3.97E-05	1.19E-05	3.77E-05	1.22E-05	3.1176E-02
520265.76	4258402.9	155076.7948	0.42032	0.93265	0.42866	1.04078	3.11E-02	1.72E-05	3.34E-05	1.76E-05	3.57E-05	3.1160E-02
520256.49	4258843	155005.8279	1.0485	0.34551	0.99208	0.37032	3.10E-02	4.29E-05	1.24E-05	4.06E-05	1.27E-05	3.1151E-02
520325.78	4258832.89	154878.9495	0.6335	0.2723	0.60727	0.28947	3.10E-02	2.59E-05	9.74E-06	2.49E-05	9.94E-06	3.1087E-02
520276.3	4258842.97	154621.7359	0.89926	0.31966	0.85547	0.34181	3.10E-02	3.68E-05	1.14E-05	3.50E-05	1.17E-05	3.1060E-02
520385.14	4258802.79	154372.2649	0.4398	0.23287	0.42371	0.24791	3.09E-02	1.80E-05	8.33E-06	1.73E-05	8.51E-06	3.0967E-02
520246.59	4258843.02	154194.1161	1.13672	0.35969	1.07197	0.38576	3.09E-02	4.65E-05	1.29E-05	4.39E-05	1.32E-05	3.0996E-02
520286.2	4258842.95	153511.0574	0.83603	0.30785	0.797	0.32868	3.07E-02	3.42E-05	1.10E-05	3.26E-05	1.13E-05	3.0832E-02
520187.39	4258422.66	153131.1284	0.57229	2.09389	0.59361	2.40414	3.07E-02	2.34E-05	7.49E-05	2.43E-05	8.25E-05	3.0872E-02
520216.79	4258412.75	153005.3456	0.50633	1.48665	0.52215	1.68252	3.06E-02	2.07E-05	5.32E-05	2.14E-05	5.78E-05	3.0794E-02
520177.25	4258823.13	152950.1348	2.2935	0.54014	2.08145	0.56381	3.06E-02	9.39E-05	1.93E-05	8.52E-05	1.94E-05	3.0848E-02
520432.11	4258423.42	152715.0051	0.24953	0.32239	0.24904	0.34568	3.06E-02	1.02E-05	1.15E-05	1.02E-05	1.19E-05	3.0627E-02
520393.02	4258403.3	152650.5683	0.27549	0.40122	0.27581	0.43145	3.06E-02	1.13E-05	1.44E-05	1.13E-05	1.48E-05	3.0622E-02
520150.6	4258806.24	152594.4842	3.40298	0.67815	3.01447	0.68275	3.06E-02	1.39E-04	2.43E-05	1.23E-04	2.34E-05	3.0870E-02
520118.72	4258472.44	152517.7663	0.88627	7.08298	0.98015	8.6398	3.05E-02	3.63E-05	2.53E-04	4.01E-05	2.97E-04	3.1170E-02
520255.98	4258402.87	152479.5048	0.43378	1.01708	0.44409	1.13767	3.05E-02	1.78E-05	3.64E-05	1.82E-05	3.91E-05	3.0647E-02
520105.32	4258757.57	152319.2289	9.64774	1.12318	8.28691	1.03584	3.05E-02	3.95E-04	4.02E-05	3.39E-04	3.56E-05	3.1314E-02
520355.47	4258822.84	152261.0484	0.5247	0.24869	0.50422	0.26459	3.05E-02	2.15E-05	8.90E-06	2.06E-05	9.08E-06	3.0552E-02
520296.1	4258842.93	152128.5715	0.78016	0.29684	0.74504	0.31643	3.05E-02	3.19E-05	1.06E-05	3.05E-05	1.09E-05	3.0550E-02
520197.07	4258833.1	152076.1735	1.81341	0.46736	1.66914	0.49548	3.05E-02	7.42E-05	1.67E-05	6.83E-05	1.70E-05	3.0632E-02
520115.37	4258771.71	151797.9818	7.19456	0.98609	6.16503	0.92653	3.04E-02	2.95E-04	3.53E-05	2.52E-04	3.18E-05	3.1014E-02
520335.69	4258833.87	150912.5228	0.59563	0.2623	0.5714	0.2788	3.02E-02	2.44E-05	9.38E-06	2.34E-05	9.57E-06	3.0289E-02
520375.26	4258812.8	150745.3246	0.46671	0.23626	0.44915	0.25151	3.02E-02	1.91E-05	8.45E-06	1.84E-05	8.63E-06	3.0243E-02
520403.63	4258789.21	150703.0679	0.39625	0.22455	0.38219	0.23857	3.02E-02	1.62E-05	8.03E-06	1.56E-05	8.19E-06	3.0228E-02
520306	4258842.92	150059.4357	0.7292	0.28624	0.69737	0.30469	3.01E-02	2.99E-05	1.02E-05	2.86E-05	1.05E-05	3.0131E-02
520334.32	4258393.11	149836.3786	0.32734	0.56833	0.32764	0.6214	3.00E-02	1.34E-05	2.03E-05	1.34E-05	2.13E-05	3.0075E-02
520324.53	4258393.08	149731.3687	0.33795	0.60557	0.33899	0.66426	3.00E-02	1.38E-05	2.17E-05	1.39E-05	2.28E-05	3.0058E-02
520344.1	4258393.14	149561.6051	0.3171	0.53508	0.31699	0.583	3.00E-02	1.30E-05	1.91E-05	1.30E-05	2.00E-05	3.0017E-02
520246.19	4258402.84	149510.9677	0.44716	1.11435	0.45927	1.24924	2.99E-02	1.83E-05	3.99E-05	1.88E-05	4.29E-05	3.0061E-02
520124.83	4258785.61	149407.023	5.70462	0.86974	4.91249	0.83206	2.99E-02	2.34E-04	3.11E-05	2.01E-04	2.86E-05	3.0415E-02
520314.74	4258393.05	149259.6493	0.34894	0.64708	0.351	0.71199	2.99E-02	1.43E-05	2.31E-05	1.44E-05	2.44E-05	2.9968E-02
520422.35	4258413.39	148738.318	0.25437	0.34109	0.25452	0.36593	2.98E-02	1.04E-05	1.22E-05	1.04E-05	1.26E-05	2.9833E-02
520353.89	4258393.18	148320.4757	0.3071	0.50536	0.307	0.54844	2.97E-02	1.26E-05	1.81E-05	1.26E-05	1.88E-05	2.9765E-02
520402.81	4258403.33	148209.2501	0.26704	0.38042	0.26744	0.40858	2.97E-02	1.09E-05	1.36E-05	1.10E-05	1.40E-05	2.9736E-02
520207	4258412.72	148124.6982	0.51959	1.66261	0.53638	1.88887	2.97E-02	2.13E-05	5.95E-05	2.20E-05	6.48E-05	2.9832E-02
520089.13	4258736.23	147759.5812	14.58609	1.353	16.51823	1.22199	2.96E-02	5.97E-04	4.84E-05	6.76E-04	4.20E-05	3.0955E-02
520187.17	4258833.12	147742.7018	2.04028	0.49331	1.86429	0.51852	2.96E-02	8.35E-05	1.76E-05	7.63E-05	1.78E-05	2.9783E-02
520295.16	4258392.99	147251.6963	0.37198	0.74494	0.37672	0.82458	2.95E-02	1.52E-05	2.66E-05	1.54E-05	2.83E-05	2.9575E-02
520167.35	4258823.15	147232.621	2.64254	0.57292	2.37578	0.58956	2.95E-02	1.08E-04	2.05E-05	9.73E-05	2.02E-05	2.9732E-02
520363.68	4258393.21	146970.5411	0.29761	0.47749	0.29752	0.51653	2.94E-02	1.22E-05	1.71E-05	1.22E-05	1.77E-05	2.9492E-02
520158	4258432.56	146868.2895	0.63772	3.208	0.67847	3.75427	2.94E-02	2.61E-05	1.15E-04	2.78E-05	1.29E-04	2.9710E-02
520128.57	4258452.47	146806.0032	0.74182	5.61888	0.81118	6.77607	2.94E-02	3.04E-05	2.01E-04	3.32E-05	2.33E-04	2.9897E-02
520365.37	4258822.82	146433.9009	0.49672	0.24002	0.47749	0.25536	2.93E-02	2.03E-05	8.59E-06	1.96E-05	8.77E-06	2.9383E-02
520236.4	4258402.81	146149.1926	0.46027	1.22624	0.47378	1.37808	2.93E-02	1.88E-05	4.39E-05	1.94E-05	4.73E-05	2.9398E-02
520345.59	4258832.85	146123.3206	0.56026	0.25245	0.5378	0.2683	2.93E-02	2.29E-05	9.03E-06	2.20E-05	9.21E-06	2.9326E-02
520177.6	4258422.63	145965.4693	0.58334	2.3962	0.60919	2.7671	2.92E-02	2.39E-05	8.57E-05	2.49E-05	9.50E-05	2.9461E-02
520285.37	4258392.96	145733.2519	0.3839	0.80313	0.39026	0.89145	2.92E-02	1.57E-05	2.87E-05	1.60E-05	3.06E-05	2.9276E-02
520092.8	4258745.07	145700.3488	14.41568	1.25954	13.64284	1.1415	2.92E-02	5.90E-04	4.51E-05	5.59E-04	3.92E-05	3.0412E-02
520447.67	4258724.17	145607.6892	0.30628	0.22066	0.29593	0.23215	2.92E-02	1.25E-05	7.89E-06	1.21E-05	7.97E-06	2.9200E-02
520133.86	4258799.33	145336.9438	4.70309	0.77217	4.08184	0.7506	2.91E-02	1.93E-04	2.76E-05	1.67E-04	2.58E-05	2.9519E-02
520373.47	4258393.24	145177.8448	0.28851	0.45185	0.28854	0.48738	2.91E-02	1.18E-05	1.62E-05	1.18E-05	1.67E-05	2.9130E-02
520158.34	4258819.43	145164.6811	3.02864	0.61309	2.69901	0.62224	2.91E-02	1.24E-04	2.19E-05	1.11E-04	2.14E-05	2.9349E-02
520395.04	4258802.77	144655.2246	0.41761	0.22481	0.40231	0.23911	2.90E-02	1.71E-05	8.04E-06	1.65E-05	8.21E-06	2.9019E-02
520106.71	4258768.14	144267.2424	9.24548	1.04026	7.94914	0.96037	2.89E-02	3.79E-04	3.72E-05	3.25E-04	3.30E-05	2.9666E-02
520412.23	4258785.64	144109.9565	0.37892	0.2198	0.36547	0.23318	2.89E-02	1.55E-05	7.86E-06	1.50E-05	8.01E-06	2.8906E-02
520256.51	4258853	143994.6232	1.05529	0.33473	0.99821	0.3589	2.88E-02	4.32E-05	1.20E-05	4.09E-05	1.23E-05	2.8945E-02
520275.58	4258392.93	143886.9739	0.39597	0.86949	0.40407	0.96736	2.88E-02	1.62E-05	3.11E-05	1.65E-05	3.32E-05	2.8912E-02
520266.41	4258852.98	143881.1911	0.9751	0.32184	0.92508	0.34479	2.88E-02	3.99E-05	1.15E-05	3.79E-05	1.18E-05	2.8915E-02
520246.61	4258853.02	143460.7105	1.14511	0.34847	1.07948	0.37376	2.87E-02	4.69E-05	1.25E-05	4.42E-05	1.28E-05	2.8846E-02
520276.31	4258852.97	143365.0733	0.90441	0.30987	0.86017	0.33157	2.87E-02	3.70E-05	1.11E-05	3.52E-05	1.14E-05	2.8806E-02
520412.59	4258403.36	143282.624	0.25903	0.36178	0.25948	0.38806	2.87E-02	1.06E-05	1.29E-05	1.06E-05	1.33E-05	2.8742E-02
520118.75	4258462.44	143271.7126	0.79869	7.14588	0.87893	8.69378	2.87E-02	3.27E-05	2.56E-04	3.60E-05	2.98E-04	2.9315E-02
520116.33	4258782.1	143012.7395	7.01585	0.92162	6.0282	0.86517	2.86E-02	2.87E-04	3.30E-05	2.47E-04	2.97E-05	2.9237E-02
520385.16	4258812.79	142821.9101	0.44286	0.22812	0.42623	0.24273	2.86E-02	1.81E-05	8.16E-06	1.75E-05	8.33E-06	2.8654E-02
520177.27	4258833.13	142729.3566	2.31241	0.52096	2.09661	0.54146	2.86E-02	9.47E-05	1.86E-05	8.58E-05	1.86E-05	2.8801E-02
520197.21	4258412.69	142672.4125	0.53165	1.87099	0.55001	2.13525	2.86E-02	2.18E-05	6.69E-05	2.25E-05	7.33E-05	2.8757E-02
520138.39	4258442.5	142657.91	0.68865	4.57433	0.74783	5.43922	2.86E-02	2.82E-05	1.64E-04	3.06E-05	1.87E-04	2.8978E-02
520454.54	4258707.77	142606.7493	0.29284	0.22125	0.28307	0.23294	2.86E-02	1.20E-05	7.91E-06	1.16E-05	8.00E-06	2.8598E-02
520286.21	4258852.95	142430.0322	0.84145	0.29869	0.80198	0.31916	2.85E-02	3.45E-05	1.07E-05	3.28E-05	1.10E-05	2.8612E-02
520434.59	4258756.37	142410.519	0.33416	0.21726	0.32269	0.22918	2.85E-02	1.37E-05	7.77E-06	1.32E-05	7.87E-06	2.8562E-02
520149.33	4258815.71	142385.9726	3.51531	0.6561	3.10369	0.65532	2.85E-02	1.44E-04	2.35E-05	1.27E-04	2.25E-05	2.8832E-02
520226.61	4258402.78	142367.2333	0.47287	1.35524	0.48729	1.52767	2.85E-02	1.94E-05	4.85E-05	2.00E-05	5.24E-05	2.8651E-02
520236.71	4258853.03	142269.1917	1.24608	0.36321	1.17011	0.3894	2.85E-02	5.10E-05	1.30E-05	4.79E-05	1.34E-05	2.8617E-02
520426.3	4258769.81	142267.4914	0.35103	0.21718	0.33877	0.22961	2.85E-02	1.44E-05	7.77E-06	1.39E-05	7.88E-06	2.8535E-02
520265.8	4258392.9	141700.6337	0.40808	0.94469	0.41788	1.05338	2.84E-02	1.67E-05	3.38E-05	1.71E-05	3.62E-05	2.8481E-02
520432.14	4258413.42	141174.8786	0.24675	0.32547	0.24673	0.34871	2.83E-02	1.01E-05	1.16E-05	1.01E-05	1.20E-05	2.8316E-02
520462.09	4258480.02	141035.9007	0.23838	0.2691	0.23593	0.28703	2.82E-02	9.76E-06	9.63E-06	9.66E-06	9.85E-06	2.8283E-02
520355.49	4258832.84	141023.7697	0.52843	0.2433	0.50747	0.25856	2.82E-02	2.16E-05	8.70E-06	2.08E-05	8.88E-06	2.8302E-02
520296.11	4258852.93	140917.674	0.78436	0.28806	0.74891	0.30732	2.82E-02	3.21E-05	1.03E-05	3.07E-05	1.06E-05	2.8304E-02
520393.05	4258393.3	140791.5988	0.27164	0.40505	0.27171	0.43536	2.82E-02	1.11E-05	1.45E-05	1.11E-05	1.49E-05	2.8247E-02
520226.81	4258853.05	140481.4378	1.36095	0.37912	1.27246	0.40583	2.81E-02	5.57E-05	1.36E-05	5.21E-05	1.39E-05	2.8269E-02
520403.49	4258799.27	139665.9496	0.39905	0.21989	0.38449	0.23366	2.80E-02	1.63E-05	7.87E-06	1.57E-05	8.02E-06	2.8018E-02
520443.25	4258742.78	139587.5631	0.31748	0.21657	0.30657	0.228	2.80E-02	1.30E-05	7.75E-06	1.26E-05	7.83E-06	2.7995E-02
520375.27	4258822.8	139465.0613	0.46963	0.23127	0.45156	0.24598	2.79E-02	1.92E-05	8.27E-06	1.85E-05	8.44E-06	2.7984E-02
520256.01	4258392.87	139166.3522	0.4201	1.03052	0.43144	1.15162	2.79E-02	1.72E-05	3.69E-05	1.77E-05	3.95E-05	2.7981E-02
520140.31	4258811.99	139122.2474	4.15809	0.7018	3.6317	0.68838	2.79E-02	1.70E-04	2.51E-05	1.49E-04	2.36E-05	2.8229E-02
520306.02	4258852.92	138843.0467	0.73238	0.27785	0.70031	0.29598	2.78E-02	3.00E-05	9.94E-06	2.87E-05	1.02E-05	2.7884E-02
520216.91	4258853.07	138400.9526	1.49709	0.39695	1.39255	0.42351	2.77E-02	6.13E-05	1.42E-05	5.70E-05	1.45E-05	2.7864E-02
520334.35	4258383.11	138164.5991	0.32128	0.57345	0.32263	0.62756	2.77E-02	1.32E-05	2.05E-05	1.32E-05	2.15E-05	2.7738E-02
520216.82	4258402.75	138153.5114	0.48481	1.50581	0.49989	1.7034	2.77E-02	1.99E-05	5.39E-05	2.05E-05	5.85E-05	2.7820E-02
520324.56	4258383.08	137987.982	0.33135	0.61116	0.33366	0.67092	2.76E-02	1.36E-05	2.19E-05	1.37E-05	2.30E-05	2.7706E-02
520344.14	4258383.14	137982.1753	0.31152	0.53962	0.31216	0.58858	2.76E-02	1.28E-05	1.93E-05	1.28E-05	2.02E-05	2.7698E-02
520167.82	4258422.59	137901.49	0.59132	2.76904	0.62407	3.21885	2.76E-02	2.42E-05	9.90E-05	2.56E-05	1.11E-04	2.7876E-02
520422.38	4258403.39	137622.618	0.25136	0.34464	0.25177	0.36922	2.76E-02	1.03E-05	1.23E-05	1.03E-05	1.27E-05	2.7606E-02
520167.37	4258833.15	137565.2154	2.66022	0.55139	2.38977	0.56474	2.75E-02	1.09E-04	1.97E-05	9.78E-05	1.94E-05	2.7795E-02
520314.77	4258383.05	137473.7618	0.34171	0.66347	0.34521	0.71938	2.75E-02	1.40E-05	2.34E-05	1.41E-05	2.47E-05	2.7607E-02
520402.84	4258393.33	137050.4745	0.26351	0.3842	0.26374	0.41228	2.74E-02	1.08E-05	1.37E-05	1.08E-05	1.42E-05	2.7496E-02
520353.92	4258383.18	136894.2414	0.30194	0.50946	0.30231	0.5535	2.74E-02	1.24E-05	1.82E-05	1.24E-05	1.90E-05	2.7477E-02
520187.42	4258412.66	136565.0515	0.54202	2.11907	0.56347	2.43245	2.73E-02	2.22E-05	7.58E-05	2.31E-05	8.35E-05	2.7554E-02
520098.06	4258764.57	136488.3389	12.19537	1.08323	10.84106	0.98809	2.73E-02	4.99E-04	3.87E-05	4.44E-04	3.39E-05	2.8350E-02
520461.41	4258691.37	136482.9838	0.2803	0.22107	0.27118	0.23304	2.73E-02	1.15E-05	7.91E-06	1.11E-05	8.00E-06	2.7371E-02
520315.92	4258852.9	136399.7536	0.68563	0.26819	0.65635	0.28528	2.73E-02	2.81E-05	9.59E-06	2.69E-05	9.79E-06	2.7390E-02
520107.83	4258778.6	136345.7679	8.89636	0.96813	7.67971	0.89436	2.73E-02	3.64E-04	3.46E-05	3.14E-04	3.07E-05	2.8049E-02
520246.22	4258392.84	136285.3693	0.43189	1.1292	0.44444	1.26464	2.73E-02	1.77E-05	4.04E-05	1.82E-05	4.34E-05	2.7413E-02
520345.6	4258842.85	136031.8228	0.56551	0.24719	0.54258	0.26248	2.72E-02	2.32E-05	8.84E-06	2.22E-05	9.01E-06	2.7305E-02
520207.01	4258853.08	135947.9031	1.65914	0.41677	1.53403	0.44227	2.72E-02	6.79E-05	1.49E-05	6.28E-05	1.52E-05	2.7386E-02
520148.21	4258432.53	135940.7685	0.63945	3.8176	0.68936	4.48555	2.72E-02	2.62E-05	1.37E-04	2.82E-05	1.54E-04	2.7569E-02
520363.71	4258383.21	135914.2793	0.29288	0.48118	0.29293	0.52116	2.72E-02	1.20E-05	1.72E-05	1.20E-05	1.79E-05	2.7278E-02
520365.39	4258832.82	135910.9158	0.50037	0.23508	0.48063	0.24985	2.72E-02	2.05E-05	8.41E-06	1.97E-05	8.58E-06	2.7275E-02
520158.52	4258829.5	135605.914	3.03022	0.58761	2.70086	0.59377	2.72E-02	1.24E-04	2.10E-05	1.11E-04	2.04E-05	2.7433E-02
520295.19	4258382.99	135448.0817	0.36313	0.75356	0.36947	0.83387	2.71E-02	1.49E-05	2.70E-05	1.51E-05	2.86E-05	2.7211E-02
520117.12	4258792.42	134902.8232	6.89148	0.86492	5.92645	0.81104	2.70E-02	2.82E-04	3.08E-05	2.43E-04	2.78E-05	2.7600E-02
520395.06	4258812.77	134428.9506	0.42068	0.22043	0.40485	0.23438	2.69E-02	1.72E-05	7.88E-06	1.66E-05	8.05E-06	2.6971E-02
520373.5	4258383.24	134317.1297	0.28411	0.45537	0.28408	0.49166	2.69E-02	1.16E-05	1.63E-05	1.16E-05	1.69E-05	2.6955E-02
520411.94	4258795.77	134241.0409	0.38205	0.21543	0.36813	0.22865	2.69E-02	1.56E-05	7.71E-06	1.51E-05	7.85E-06	2.6930E-02
520285.4	4258382.96	133948.8798	0.37407	0.81303	0.38194	0.90182	2.68E-02	1.53E-05	2.91E-05	1.56E-05	3.10E-05	2.6916E-02

520057.12	4258673.87	128011.2239	6.04053	2.19197	11.57685	1.97632	2.56E-02	2.47E-04	7.84E-05	4.74E-04	6.78E-05	2.6504E-02
520334.38	4258373.11	127864.2489	0.31527	0.57846	0.31781	0.63352	2.56E-02	1.29E-05	2.07E-05	1.30E-05	2.17E-05	2.5675E-02
520422.41	4258393.39	127823.5263	0.2483	0.34808	0.24875	0.37241	2.56E-02	1.02E-05	1.25E-05	1.02E-05	1.28E-05	2.5644E-02
520059.89	4258618.24	127798.949	5.0988	5.70599	11.54337	4.35416	2.56E-02	2.09E-04	2.04E-04	4.73E-04	1.49E-04	2.6628E-02
520344.17	4258373.14	127770.2899	0.306	0.5441	0.30764	0.59402	2.56E-02	1.25E-05	1.95E-05	1.26E-05	2.04E-05	2.5653E-02
520324.59	4258373.08	127629.4557	0.32477	0.61704	0.32841	0.67763	2.56E-02	1.33E-05	2.21E-05	1.34E-05	2.33E-05	2.5632E-02
520256.04	4258382.87	127533.4671	0.40657	1.0442	0.41831	1.16547	2.55E-02	1.66E-05	3.73E-05	1.71E-05	4.00E-05	2.5651E-02
520158.67	4258839.55	127217.8379	3.04657	0.5646	2.71257	0.56785	2.55E-02	1.25E-04	2.02E-05	1.11E-04	1.95E-05	2.5753E-02
520402.87	4258383.33	127188.3482	0.25996	0.38752	0.25992	0.41576	2.55E-02	1.06E-05	1.39E-05	1.06E-05	1.43E-05	2.5521E-02
520314.8	4258373.05	127073.5358	0.33447	0.66008	0.33936	0.72674	2.54E-02	1.37E-05	2.36E-05	1.39E-05	2.49E-05	2.5524E-02
520459.13	4258430.83	126994.4416	0.23085	0.28358	0.22957	0.30264	2.54E-02	9.45E-06	1.01E-05	9.40E-06	1.04E-05	2.5472E-02
520353.96	4258373.18	126877.1818	0.29684	0.51347	0.29798	0.55847	2.54E-02	1.22E-05	1.84E-05	1.22E-05	1.92E-05	2.5471E-02
520118.78	4258452.44	126849.2885	0.72405	7.19521	0.79178	8.75012	2.54E-02	2.96E-05	2.57E-04	3.24E-05	3.00E-04	2.6023E-02
520057.12	4258636.77	126816.4181	5.22246	3.7567	10.15607	3.15456	2.54E-02	2.14E-04	1.34E-04	4.16E-04	1.08E-04	2.6269E-02
520365.4	4258842.82	126667.0159	0.5043	0.23037	0.48408	0.24458	2.54E-02	2.06E-05	8.24E-06	1.98E-05	8.40E-06	2.5424E-02
520128.6	4258442.47	126557.8477	0.67831	5.65848	0.73882	6.83124	2.53E-02	2.78E-05	2.02E-04	3.03E-05	2.35E-04	2.5940E-02
520207.02	4258863.08	126553.3572	1.65869	0.40251	1.53401	0.42625	2.53E-02	6.79E-05	1.44E-05	6.28E-05	1.46E-05	2.5504E-02
520315.93	4258862.9	126408.9243	0.68729	0.26019	0.65784	0.27692	2.53E-02	2.81E-05	9.31E-06	2.69E-05	9.51E-06	2.5389E-02
520363.74	4258373.21	126036.6049	0.28817	0.48485	0.28874	0.52573	2.52E-02	1.18E-05	1.73E-05	1.18E-05	1.80E-05	2.5300E-02
520441.94	4258763.34	126023.0079	0.32461	0.2093	0.31324	0.22058	2.52E-02	1.33E-05	7.49E-06	1.28E-05	7.57E-06	2.5279E-02
520411.7	4258805.88	125442.1413	0.38516	0.2113	0.37073	0.22431	2.51E-02	1.58E-05	7.56E-06	1.52E-05	7.70E-06	2.5168E-02
520216.85	4258392.75	125343.656	0.46422	1.52426	0.47857	1.72346	2.51E-02	1.90E-05	5.45E-05	1.96E-05	5.92E-05	2.5254E-02
520177.3	4258853.13	125241.4161	2.35245	0.48594	2.12804	0.50067	2.51E-02	9.63E-05	1.74E-05	8.71E-05	1.72E-05	2.5299E-02
520395.07	4258822.77	125156.8251	0.42336	0.21606	0.407	0.22961	2.51E-02	1.73E-05	7.73E-06	1.67E-05	7.88E-06	2.5114E-02
520149.95	4258835.95	125051.7093	3.50389	0.59985	3.09445	0.59418	2.50E-02	1.43E-04	2.15E-05	1.27E-04	2.04E-05	2.5355E-02
520464.75	4258707.32	125010.7697	0.28009	0.21349	0.27043	0.22459	2.50E-02	1.15E-05	7.64E-06	1.11E-05	7.71E-06	2.5073E-02
520246.25	4258382.84	124735.8452	0.41691	1.14371	0.42928	1.27958	2.50E-02	1.71E-05	4.09E-05	1.76E-05	4.39E-05	2.5100E-02
520108.93	4258472.41	124717.3121	0.85546	9.53156	0.9477	11.54478	2.50E-02	3.50E-05	3.41E-04	3.88E-05	3.96E-04	2.5787E-02
520373.53	4258373.24	124685.1433	0.27974	0.45874	0.27998	0.49586	2.50E-02	1.15E-05	1.64E-05	1.15E-05	1.70E-05	2.5026E-02
520113.27	4258800.83	124659.5734	7.65586	0.83441	6.58663	0.77545	2.50E-02	3.13E-04	2.98E-05	2.70E-04	2.66E-05	2.5604E-02
520057.12	4258683.15	124562.5859	6.15111	1.96683	11.85848	1.78869	2.49E-02	2.52E-04	7.04E-05	4.86E-04	6.14E-05	2.5815E-02
520256.54	4258873	124507.0312	1.06138	0.3138	1.00363	0.33667	2.49E-02	4.35E-05	1.12E-05	4.11E-05	1.16E-05	2.5042E-02
520266.45	4258872.98	124422.7199	0.98177	0.30202	0.93109	0.32389	2.49E-02	4.02E-05	1.08E-05	3.81E-05	1.11E-05	2.5018E-02
520246.64	4258873.02	124089.674	1.15037	0.32634	1.08414	0.35001	2.49E-02	4.71E-05	1.17E-05	4.44E-05	1.20E-05	2.4966E-02
520276.35	4258872.97	123866.2553	0.91055	0.29095	0.86572	0.31171	2.48E-02	3.73E-05	1.04E-05	3.54E-05	1.07E-05	2.4900E-02
520325.83	4258862.89	123863.4979	0.64508	0.25156	0.61794	0.26735	2.48E-02	2.64E-05	9.00E-06	2.53E-05	9.18E-06	2.4875E-02
520197.12	4258863.1	123802.2529	1.84733	0.42292	1.69753	0.44431	2.48E-02	7.56E-05	1.51E-05	6.95E-05	1.53E-05	2.4969E-02
520450.43	4258749.82	123731.0592	0.30901	0.20868	0.29808	0.21952	2.48E-02	1.27E-05	7.46E-06	1.22E-05	7.54E-06	2.4819E-02
520138.42	4258432.5	123640.5487	0.65142	4.61588	0.68931	5.48525	2.48E-02	2.60E-05	1.65E-04	2.82E-05	1.88E-04	2.5168E-02
520285.44	4258372.96	123553.217	0.36419	0.82329	0.37322	0.91214	2.47E-02	1.49E-05	2.94E-05	1.53E-05	3.13E-05	2.4834E-02
520100.38	4258785.51	123490.5115	11.32571	0.93852	9.96805	0.85837	2.47E-02	4.64E-04	3.36E-05	4.08E-04	2.95E-05	2.5666E-02
520412.66	4258383.36	123347.5167	0.25241	0.36841	0.25253	0.39453	2.47E-02	1.03E-05	1.32E-05	1.03E-05	1.35E-05	2.4749E-02
520385.19	4258832.79	123269.4833	0.44817	0.21888	0.43052	0.23251	2.47E-02	1.83E-05	7.83E-06	1.76E-05	7.98E-06	2.4738E-02
520236.74	4258873.03	123266.9844	1.25177	0.34004	1.17514	0.36416	2.47E-02	5.13E-05	1.22E-05	4.81E-05	1.25E-05	2.4810E-02
520286.25	4258872.95	123910.5116	0.84671	0.28057	0.80674	0.30022	2.46E-02	3.47E-05	1.00E-05	3.30E-05	1.03E-05	2.4703E-02
520123.11	4258814.88	122889.9973	6.00755	0.74906	5.16491	0.70674	2.46E-02	2.46E-04	2.68E-05	2.11E-04	2.43E-05	2.5119E-02
520428.83	4258788.78	122863.8962	0.3517	0.20737	0.33885	0.21939	2.46E-02	1.44E-05	7.42E-06	1.39E-05	7.53E-06	2.4648E-02
520090.84	4258771.58	122794.2832	15.24834	1.03275	15.16187	0.93849	2.46E-02	6.24E-04	3.69E-05	6.21E-04	3.22E-05	2.5906E-02
520141.24	4258832.36	122738.3269	4.11508	0.63694	3.59592	0.62044	2.46E-02	1.68E-04	2.28E-05	1.47E-04	2.13E-05	2.4940E-02
520355.52	4258852.84	122620.1712	0.53727	0.23336	0.51538	0.24756	2.46E-02	2.20E-05	8.35E-06	2.11E-05	8.50E-06	2.4616E-02
520438.05	4258774.96	122523.0276	0.33344	0.20713	0.32155	0.21859	2.45E-02	1.37E-05	7.41E-06	1.32E-05	7.50E-06	2.4579E-02
520187.46	4258402.66	122499.8936	0.51377	2.14294	0.53585	2.4586	2.45E-02	2.10E-05	7.66E-05	2.19E-05	8.44E-05	2.4736E-02
520059.85	4258608.54	122497.0667	4.51414	7.14133	10.43773	5.02645	2.45E-02	1.85E-04	2.55E-04	4.27E-04	1.73E-04	2.5572E-02
520167.85	4258412.59	122261.8449	0.55552	2.79837	0.58896	3.25095	2.45E-02	2.27E-05	1.00E-04	2.41E-05	1.12E-04	2.4743E-02
520432.2	4258393.42	122061.6155	0.24109	0.33187	0.24155	0.35465	2.44E-02	9.87E-06	1.19E-05	9.89E-06	1.22E-05	2.4488E-02
520226.84	4258873.05	122014.593	1.36825	0.35504	1.27886	0.37911	2.44E-02	5.60E-05	1.27E-05	5.24E-05	1.30E-05	2.4569E-02
520275.65	4258372.93	121771.3296	0.37405	0.89211	0.3843	0.99014	2.44E-02	1.53E-05	3.19E-05	1.57E-05	3.40E-05	2.4483E-02
520296.15	4258872.93	121617.8877	0.78957	0.27088	0.75363	0.28945	2.44E-02	3.23E-05	9.69E-06	3.09E-05	9.94E-06	2.4438E-02
520236.46	4258382.81	121593.4244	0.42678	1.25777	0.43947	1.41116	2.44E-02	1.75E-05	4.50E-05	1.80E-05	4.84E-05	2.4434E-02
520393.11	4258373.3	121253.9375	0.26402	0.41161	0.26375	0.44278	2.43E-02	1.08E-05	1.47E-05	1.08E-05	1.52E-05	2.4334E-02
520335.74	4258862.87	121188.9067	0.60747	0.24357	0.58222	0.25859	2.43E-02	2.49E-05	8.71E-06	2.38E-05	8.88E-06	2.4336E-02
520375.31	4258842.8	121077.8574	0.47653	0.22226	0.45742	0.23595	2.42E-02	1.95E-05	7.95E-06	1.87E-05	8.10E-06	2.4302E-02
520167.4	4258853.15	120919.4209	2.6963	0.51213	2.4177	0.51978	2.42E-02	1.10E-04	1.83E-05	9.90E-05	1.78E-05	2.4461E-02
520207.06	4258392.72	120866.9456	0.47337	1.70277	0.48916	1.93316	2.42E-02	1.94E-05	6.09E-05	2.00E-05	6.64E-05	2.4372E-02
520187.22	4258863.12	120643.1101	2.07393	0.44494	1.89218	0.46268	2.42E-02	8.49E-05	1.59E-05	7.75E-05	1.59E-05	2.4355E-02
520216.94	4258873.07	120314.5132	1.50282	0.37138	1.39768	0.39474	2.41E-02	6.15E-05	1.33E-05	5.72E-05	1.36E-05	2.4240E-02
520458.69	4258420.62	120293.4796	0.22892	0.28646	0.22804	0.30358	2.41E-02	9.37E-06	1.02E-05	9.34E-06	1.05E-05	2.4130E-02
520306.05	4258872.92	120006.4859	0.73826	0.26184	0.70565	0.27935	2.40E-02	3.02E-05	9.37E-06	2.89E-05	9.59E-06	2.4111E-02
520265.86	4258372.9	119685.5135	0.38375	0.96091	0.39492	1.07853	2.40E-02	1.57E-05	3.47E-05	1.62E-05	3.70E-05	2.4072E-02
520471.48	4258691.25	119469.2905	0.26859	0.2134	0.25965	0.2247	2.39E-02	1.10E-05	7.63E-06	1.06E-05	7.71E-06	2.3962E-02
520422.44	4258383.39	119137.8277	0.24523	0.35132	0.24553	0.37553	2.39E-02	1.00E-05	1.26E-05	1.01E-05	1.29E-05	2.3905E-02
520104.26	4258797.11	119008.5514	9.94722	0.86876	8.66777	0.79766	2.38E-02	4.07E-04	3.11E-05	3.55E-04	2.74E-05	2.4654E-02
520148.24	4258422.53	118946.8435	0.59435	3.85489	0.64165	4.52308	2.38E-02	2.43E-05	1.38E-04	2.63E-05	1.55E-04	2.4165E-02
520472.09	4258480.39	118941.9821	0.23055	0.25794	0.22798	0.27476	2.38E-02	9.44E-06	9.23E-06	9.33E-06	9.43E-06	2.3857E-02
520334.41	4258363.11	118723.8996	0.30926	0.58396	0.31302	0.63968	2.38E-02	1.27E-05	2.09E-05	1.28E-05	2.20E-05	2.3844E-02
520344.2	4258363.15	118714.9168	0.3005	0.54881	0.30327	0.59951	2.38E-02	1.23E-05	1.96E-05	1.24E-05	2.06E-05	2.3839E-02
520402.9	4258373.33	118499.1541	0.25646	0.39065	0.25622	0.41926	2.37E-02	1.05E-05	1.40E-05	1.05E-05	1.44E-05	2.3780E-02
520324.62	4258363.08	118431.6281	0.31817	0.62327	0.32308	0.68443	2.37E-02	1.30E-05	2.23E-05	1.32E-05	2.35E-05	2.3790E-02
520207.04	4258873.08	118305.8339	1.66248	0.38948	1.53735	0.41136	2.37E-02	6.81E-05	1.39E-05	6.29E-05	1.41E-05	2.3851E-02
520114.26	4258811.23	118282.1445	7.49525	0.78532	6.43349	0.72982	2.37E-02	3.07E-04	2.81E-05	2.63E-04	2.51E-05	2.4311E-02
520226.67	4258382.78	118088.6024	0.43605	1.38894	0.44908	1.56372	2.36E-02	1.79E-05	4.97E-05	1.84E-05	5.37E-05	2.3788E-02
520353.99	4258363.18	117991.5186	0.2918	0.51758	0.29388	0.56342	2.36E-02	1.19E-05	1.85E-05	1.20E-05	1.93E-05	2.3691E-02
520365.42	4258852.82	117893.5438	0.50648	0.22518	0.48605	0.23885	2.36E-02	2.07E-05	8.05E-06	1.99E-05	8.20E-06	2.3367E-02
520315.95	4258872.9	117844.9876	0.6906	0.25298	0.66088	0.26944	2.36E-02	2.83E-05	9.05E-06	2.71E-05	9.25E-06	2.3674E-02
520314.83	4258363.05	117836.5265	0.3272	0.66702	0.33333	0.73415	2.36E-02	1.34E-05	2.39E-05	1.36E-05	2.52E-05	2.3674E-02
520108.96	4258462.41	117707.6003	0.76902	9.58585	0.84506	11.61428	2.36E-02	3.15E-05	3.43E-04	3.46E-05	3.99E-04	2.4380E-02
520092.01	4258782.06	117339.7232	14.77259	0.96193	14.31826	0.87563	2.35E-02	6.05E-04	3.44E-05	5.86E-04	3.01E-05	2.4754E-02
520256.07	4258372.87	117291.683	0.39319	1.05805	0.40488	1.17914	2.35E-02	1.61E-05	3.78E-05	1.66E-05	4.05E-05	2.3600E-02
520363.78	4258363.21	117140.166	0.28344	0.48863	0.28484	0.53035	2.35E-02	1.16E-05	1.75E-05	1.17E-05	1.82E-05	2.3518E-02
520177.32	4258863.13	117045.5749	2.34694	0.4682	2.12485	0.48074	2.34E-02	9.61E-05	1.67E-05	8.70E-05	1.65E-05	2.3656E-02
520305.04	4258363.02	116949.1769	0.3363	0.71606	0.34369	0.78974	2.34E-02	1.38E-05	2.56E-05	1.41E-05	2.71E-05	2.3501E-02
520059.81	4258598.85	116771.6907	3.78442	8.9405	8.72421	5.65802	2.34E-02	1.55E-04	3.20E-04	3.57E-04	1.94E-04	2.4411E-02
520467.75	4258434.52	116731.7623	0.22541	0.27218	0.22389	0.29004	2.34E-02	9.23E-06	9.74E-06	9.17E-06	9.96E-06	2.3415E-02
520395.09	4258832.77	116684.092	0.42556	0.21167	0.40871	0.22477	2.34E-02	1.74E-05	7.57E-06	1.67E-05	7.72E-06	2.3417E-02
520256.56	4258883	116508.0465	1.06715	0.30473	1.00873	0.32694	2.33E-02	4.37E-05	1.09E-05	4.13E-05	1.12E-05	2.3439E-02
520266.46	4258882.98	116398.5835	0.98726	0.29337	0.936	0.3147	2.33E-02	4.04E-05	1.05E-05	3.83E-05	1.08E-05	2.3410E-02
520473.34	4258463.05	116296.5474	0.22668	0.26021	0.22457	0.27691	2.33E-02	9.28E-06	9.31E-06	9.19E-06	9.51E-06	2.3327E-02
520246.66	4258883.02	116209.6131	1.15714	0.317	1.09006	0.33983	2.33E-02	4.74E-05	1.13E-05	4.46E-05	1.17E-05	2.3388E-02
520123.81	4258825.16	116178.2826	5.9324	0.70926	5.09729	0.66833	2.33E-02	2.43E-04	2.54E-05	2.09E-04	2.29E-05	2.3766E-02
520177.67	4258402.63	116133.059	0.51969	2.44863	0.54728	2.82496	2.33E-02	2.13E-05	8.76E-05	2.24E-05	9.70E-05	2.3485E-02
520437.28	4258785.28	116101.0763	0.3371	0.2034	0.3248	0.21483	2.33E-02	1.38E-05	7.28E-06	1.33E-05	7.38E-06	2.3293E-02
520373.56	4258363.24	116071.2179	0.27541	0.4621	0.27622	0.50001	2.32E-02	1.13E-05	1.65E-05	1.13E-05	1.72E-05	2.3301E-02
520197.28	4258392.69	115919.7878	0.48122	1.91323	0.49983	2.18238	2.32E-02	1.97E-05	6.84E-05	2.05E-05	7.49E-05	2.3398E-02
520276.36	4258882.97	115911.415	0.91613	0.28281	0.87076	0.30314	2.32E-02	3.75E-05	1.01E-05	3.57E-05	1.04E-05	2.3307E-02
520197.14	4258873.1	115852.6276	1.85088	0.40896	1.70073	0.42832	2.32E-02	7.58E-05	1.46E-05	6.96E-05	1.47E-05	2.3376E-02
520428.34	4258798.99	115832.2635	0.35498	0.20357	0.34171	0.21551	2.32E-02	1.45E-05	7.28E-06	1.40E-05	7.40E-06	2.3240E-02
520295.26	4258362.99	115774.6334	0.34538	0.77105	0.35399	0.85194	2.32E-02	1.41E-05	2.76E-05	1.45E-05	2.92E-05	2.3271E-02
520061.21	4258717.12	115629.3663	7.55732	1.43669	17.63332	1.32556	2.32E-02	3.09E-04	5.14E-05	7.22E-04	4.55E-05	2.4285E-02
520236.76	4258883.03	115514.2898	1.25938	0.33035	1.18172	0.35342	2.31E-02	5.16E-05	1.18E-05	4.84E-05	1.21E-05	2.3257E-02
520325.85	4258872.89	115430.1794	0.64775	0.24468	0.62038	0.26017	2.31E-02	2.65E-05	8.75E-06	2.54E-05	8.93E-06	2.3186E-02
520385.21	4258842.79	115283.0009	0.45132	0.21471	0.43315	0.22789	2.31E-02	1.85E-05	7.68E-06	1.77E-05	7.82E-06	2.3139E-02
520412.69	4258373.36	115118.8841	0.24913	0.37137	0.249	0.3977	2.31E-02	1.02E-05	1.33E-05	1.02E-05	1.37E-05	2.3101E-02
520461.66	4258738.63	115079.7257	0.29129	0.20514	0.28079	0.2154	2.30E-02	1.19E-05	7.34E-06	1.15E-05	7.39E-06	2.3084E-02
520286.26	4258882.95	115048.4904	0.85223	0.27289	0.81175	0.29219	2.30E-02	3.49E-05	9.76E-06	3.32E-05	1.00E-05	2.3128E-02
520446.65	4258771.39	114729.1854	0.31949	0.20296	0.30806	0.21383	2.30E-02	1.31E-05	7.26E-06	1.26E-05	7.34E-06	2.3016E-02
520246.28	4258372.84	114583.7415	0.40223	1.15847	0.41415	1.29436	2.29E-02	1.65E-05	4.14E-05	1.70E-05	4.44E-05	2.3066E-02
520226.86	4258883.05	114461.5989	1.37748	0.34503	1.28674	0.36784	2.29E-02	5.64E-05	1.23E-05	5.27E-05	1.26E-05	2.3057E-02
520285.47	4258362.96	114312.6785	0.35438	0.83305	0.36409	0.92197	2.29E-02	1.45E-05	2.98E-05	1.49E-05	3.17E-05	2.2984E-02
520216.88	4258382.75	114210.6964	0.44456	1.54172	0.4585	1.74241	2.29E-02	1.82E-05	5.51E-05	1.88E-05	5.98E-05	2.3024E-02
520355.54	4258862.84	114171.6069	0.53935	0.22771	0.51713	0.24142	2.29E-02	2.21E-05	8.14E-06	2.12E-05	8.29E-06	2.2924E-02
520432.23	4258383.42	114138.1713	0.23822	0.3349	0.23863	0.35747	2.29E-02	9.75E-06	1.20E-05	9.77E-06	1.23E-05	2.2902E-02
520158.06	4258412.56	113992.7823	0.55714	3.27538	0.59706	3.82522	2.28E-02	2.28E-05	1.17E-04	2.44E-05	1.31E-04	2.3124E-02
520296.17	4258882.93	113799.9688	0.79439	0.26351	0.758	0.28177	2.28E-02	3.25E-05	9.43E-06	3.10E-05	9.67E-06	2.2873E-02
520057.69	4258708.63	113753.036	6.34969	1.52196	12.77138	1.40367	2.28E-02	2.60E-04	5.44E-05	5.23E-04	4.82E-05	2.3666E-02
520468.29	4258722.81	113634.1804	0.27939	0.20604	0.26937	0.21631	2.28E-02	1.14E-05	7.37E-06	1.10E-05	7.43E-06	2.2794E-02
520095.25	4258793.39	113564.9744	13.38444	0.89426	12.31441	0.8159	2.27E-02	5.48E-04	3.20E-05	5.04E-04	2.80E-05	2.3855E-02
520105.4	4258807.57	113368.8308	9.64865	0.8156	8.36747	0.74953	2.27E-02	3.95E-04	2.92E-05	3.43E-04	2.57E-05	2.3496E-02
520167.42	4258863.15	113200.2549	2.6881	0.40288	2.41305	0.49842	2.27E-02	1.10E-04	1.76E-05	9.88E-05	1.71E-05	2.2913E-02
520393.14	4258363.3	113124.7898	0.26027	0.4146	0.26016	0.44641	2.27E-02	1.07E-05	1.48E-05	1.07E-05	1.53E-05	2.2706E-02
520335.75	4258872.87	113121.0629	0.61057	0.23733	0.58502	0.25204	2.27E-02	2.50E-05	8.49E-06	2.40E-05	8.65E-06	2.2720E-02
520187.24	4258873.12	113085.4786	2.07894	0.43009	1.89657	0.44569	2.26E-02	8.51E-05	1.54E-05	7.77E-05	1.53E-05	2.2840E-02
520375.32	4258852.8	113051.7155	0.47921	0.21762	0.45964	0.2308	2.26E-02	1.96E-05	7.78E-06	1.88E-05	7.92E-06	2.2694E-02
520216.96	4258883.07	112997.6094	1.51405	0.36097	1.40714	0.38286	2.26E-02	6.20E-05	1.29E-05	5.76E-05	1.31E-05	2.2775E-02
520275.68	4258362.93	112554.0575	0.36322	0.90282	0.37377	1.00087	2.25E-02	1.49E-05	3.23E-05	1.53E-05	3.44E-05	2.2637E-02
520306.07	4258882.92	112345.7591	0.74299	0.25488	0.70996	0.27216	2.25E-02	3.04E-05	9.12E-06	2.91E-05	9.34E-06	2.2577E-02
520467.07	4258424.21	112253.5207	0.22381	0.27506	0.22259	0.29327	2.25E-02	9.16E-06	9.84E-06	9.11E-06	1.01E-05	2.2518E-02
520115.09	4258821.56	112176.9083	7.35523	0.74127	6.30434	0.68881	2.25E-02	3.01E-04	2.65E-05	2.58E-04	2.36E-05	2.3074E-02
520158.32	4258859.39	111975.3068	3.0764	0.52349	2.73854	0.52181	2.24E-02	1.26E-04	1.87E-05	1.12E-04	1.79E-05	2.2699E-02
520054.16	4258700.13	111611.0321	5.6169	1.61282	9.94732	1.4881	2.24E-02	2.30E-04	5.77E-05	4.07E-04	5.11E-05	2.3098E-02
520236.49	4258372.81	111551.4125	0.41079	1.27314	0.42285	1.42697	2.23E-02	1.68E-05	4.55E-05	1.73E-05	4.90E-05	2.2468E-02
520422.48	4258373.39	111421.2067	0.24214	0.35441	0.24221	0.37863	2.23E-02	9.91E-06	1.27E-05	9.92E-06	1.30E-05	2.2359E-02
520207.06	4258883.08	111194.6568	1.67487	0.37838	1.54764	0.39854	2.23E-02	6.86E-05	1.35E-05	6.34E-05	1.37E-05	2.2427E-02
520402.93	4258363.33	110719.4093	0.25298	0.3936	0.25273	0.42274	2.22E-02	1.04E-05	1.41E-05	1.03E-05	1.45E-05	2.2222E-02
520059.77	4258589.15	110619.6087	3.04233	10.75058	6.37004	6.1036	2.22E-02	1.25E-04	3.85E-04	2.61E-04	2.10E-04	2.3133E-02
520344.23	4258353.15	110583.159	0.29496	0.55398	0.29889	0.60518	2.21E-02	1.21E-05	1.98E-05	1.22E-05	2.08E-05	2.2211E-02
520334.44	4258353.11	110557.5662	0.3032	0.58982	0.30814	0.64597	2.21E-02	1.24E-05	2.11E-05	1.26E-05	2.22E-05	2.2209E-02
520457.59	4258756.86	110540.1485	0.30083	0.20117	0.28985	0.21147	2.21E-02	1.23E-05	7.20E-06	1.19E-05	7.26E-06	2.2176E-02
520265.89	4258362.9	110498.9696	0.37183	0.98157	0.38289	1.09021	2.21E-02	1.52E-05	3.51E-05	1.57E-05	3.74E-

520432.26	4258373.42	107067.715	0.23536	0.33782	0.23556	0.3603	2.14E-02	9.64E-06	1.21E-05	9.64E-06	1.24E-05	2.1486E-02
520355.55	4258872.84	106709.0299	0.54181	0.22231	0.51927	0.23561	2.14E-02	2.22E-05	7.95E-06	2.13E-05	8.09E-06	2.1429E-02
520296.18	4258892.93	106623.0072	0.79831	0.25631	0.76152	0.27423	2.14E-02	3.27E-05	9.17E-06	3.12E-05	9.41E-06	2.1435E-02
520187.26	4258883.12	106453.2689	2.0928	0.41698	1.90775	0.43047	2.13E-02	8.57E-05	1.49E-05	7.81E-05	1.48E-05	2.1512E-02
520167.44	4258873.15	106406.0295	2.69201	0.47522	2.41676	0.47871	2.13E-02	1.10E-04	1.70E-05	9.90E-05	1.64E-05	2.1552E-02
520115.81	4258831.85	106378.5908	7.22662	0.7014	6.18938	0.65165	2.13E-02	2.96E-04	2.51E-05	2.53E-04	2.24E-05	2.1901E-02
520216.97	4258893.07	106151.8843	1.52146	0.35064	1.41338	0.37101	2.13E-02	6.23E-05	1.25E-05	5.79E-05	1.27E-05	2.1404E-02
520285.5	4258352.96	106055.4397	0.34467	0.84233	0.35458	0.93131	2.12E-02	1.41E-05	3.01E-05	1.45E-05	3.20E-05	2.1330E-02
520335.77	4258882.87	106038.401	0.61442	0.23151	0.5885	0.24602	2.12E-02	2.52E-05	8.28E-06	2.41E-05	8.45E-06	2.1302E-02
520403.77	4258839.18	105909.5252	0.40774	0.20277	0.39124	0.21512	2.12E-02	1.67E-05	7.25E-06	1.60E-05	7.39E-06	2.1257E-02
520393.17	4258353.3	105856.5985	0.25656	0.41739	0.25687	0.4499	2.12E-02	1.05E-05	1.49E-05	1.05E-05	1.54E-05	2.1251E-02
520476.37	4258438.21	105718.0657	0.22008	0.26173	0.21837	0.27844	2.12E-02	9.01E-06	9.36E-06	8.94E-06	9.56E-06	2.1208E-02
520246.31	4258362.84	105586.6476	0.38802	1.17167	0.39931	1.308	2.11E-02	1.59E-05	4.19E-05	1.63E-05	4.49E-05	2.1264E-02
520481.53	4258691.19	105423.489	0.25765	0.20602	0.2488	0.21672	2.11E-02	1.05E-05	7.37E-06	1.02E-05	7.44E-06	2.1148E-02
520375.34	4258862.8	105343.3661	0.48022	0.21249	0.46033	0.22512	2.11E-02	1.97E-05	7.60E-06	1.88E-05	7.73E-06	2.1150E-02
520158.47	4258869.45	105318.7525	3.07054	0.50323	2.73468	0.49986	2.11E-02	1.26E-04	1.80E-05	1.12E-04	1.72E-05	2.1364E-02
520197.31	4258382.69	105251.7771	0.45826	1.93329	0.47762	2.20383	2.11E-02	1.88E-05	6.92E-05	1.96E-05	7.57E-05	2.1261E-02
520306.08	4258892.92	105188.2415	0.74609	0.24788	0.71271	0.26484	2.11E-02	3.05E-05	8.87E-06	2.92E-05	9.09E-06	2.1143E-02
520108.99	4258452.41	104957.4952	0.69593	9.62409	0.75893	11.66282	2.10E-02	2.85E-05	3.44E-04	3.11E-05	4.00E-04	2.1823E-02
520148.27	4258412.53	104917.3067	0.55391	3.88845	0.59761	4.55859	2.10E-02	2.27E-05	1.39E-04	2.45E-05	1.57E-04	2.1354E-02
520047.12	4258664.6	104619.5494	3.95167	2.24575	6.12433	2.00939	2.10E-02	1.62E-04	8.03E-05	2.51E-04	6.90E-05	2.1513E-02
520047.12	4258673.87	104568.0113	4.08627	2.01746	6.30665	1.82703	2.09E-02	1.67E-04	7.22E-05	2.58E-04	6.27E-05	2.1502E-02
520207.07	4258893.08	104534.2599	1.68286	0.36735	1.55434	0.38582	2.09E-02	6.89E-05	1.31E-05	6.36E-05	1.32E-05	2.1093E-02
520422.51	4258363.39	104515.5423	0.2391	0.35692	0.23894	0.38141	2.09E-02	9.79E-06	1.28E-05	9.78E-06	1.31E-05	2.0976E-02
520177.7	4258392.63	104510.0708	0.49135	2.47247	0.51958	2.85055	2.09E-02	2.01E-05	8.84E-05	2.13E-05	9.79E-05	2.1157E-02
520216.92	4258372.75	104482.2261	0.42579	1.55912	0.43984	1.76035	2.09E-02	1.74E-05	5.58E-05	1.80E-05	6.04E-05	2.1076E-02
520061.4	4258741.7	104436.9872	8.15642	1.16717	18.12166	1.08754	2.09E-02	3.34E-04	4.17E-05	7.42E-04	3.73E-05	2.2070E-02
520275.71	4258352.93	104339.997	0.3526	0.91256	0.36293	1.01087	2.09E-02	1.44E-05	3.26E-05	1.49E-05	3.47E-05	2.0992E-02
520436.14	4258805.77	104073.9263	0.34345	0.19604	0.33029	0.20734	2.08E-02	1.41E-05	1.35E-05	7.01E-06	1.35E-05	2.0884E-02
520444.98	4258792.1	104015.6237	0.32663	0.19589	0.31436	0.20672	2.08E-02	1.34E-05	7.01E-06	1.29E-05	7.10E-06	2.0871E-02
520059.73	4258579.45	103971.4385	2.5146	12.03481	4.53985	6.47735	2.08E-02	1.03E-04	4.30E-04	1.86E-04	2.22E-04	2.1763E-02
520149.5	4258865.74	103872.5981	3.54739	0.5323	3.13273	0.52077	2.08E-02	1.45E-04	1.90E-05	1.28E-04	1.79E-05	2.1112E-02
520402.96	4258353.33	103748.6003	0.24953	0.39613	0.2495	0.42591	2.08E-02	1.02E-05	1.42E-05	1.02E-05	1.46E-05	2.0826E-02
520097.66	4258814.37	103621.0435	12.38413	0.78784	11.10901	0.72069	2.08E-02	5.07E-04	2.82E-05	4.55E-04	2.47E-05	2.1766E-02
520177.35	4258883.13	103568.4087	2.36872	0.4379	2.14252	0.44608	2.07E-02	9.70E-05	1.57E-05	8.77E-05	1.53E-05	2.0957E-02
520047.12	4258683.15	103482.8226	4.19826	1.82437	6.46955	1.66827	2.07E-02	1.72E-04	6.53E-05	2.65E-04	5.73E-05	2.1283E-02
520047.12	4258655.32	103478.4047	3.79612	2.51763	5.91625	2.21941	2.07E-02	1.55E-04	9.01E-05	2.42E-04	7.62E-05	2.1287E-02
520315.98	4258892.9	103434.6094	0.69843	0.23986	0.66793	0.25589	2.07E-02	2.86E-05	8.58E-06	2.73E-05	8.78E-06	2.0788E-02
520475.44	4258427.8	103394.8956	0.21877	0.2646	0.2173	0.28169	2.07E-02	8.96E-06	9.46E-06	8.90E-06	9.67E-06	2.0743E-02
520344.26	4258343.15	103174.9312	0.28938	0.55925	0.2944	0.61077	2.07E-02	1.18E-05	2.00E-05	1.21E-05	2.10E-05	2.0727E-02
520087.7	4258800.27	103108.3497	15.27936	0.85111	18.13949	0.77763	2.06E-02	6.26E-04	3.04E-05	7.43E-04	2.67E-05	2.2074E-02
520427.58	4258819.32	103072.2303	0.36076	0.19626	0.34662	0.20788	2.06E-02	1.48E-05	7.02E-06	1.42E-05	7.14E-06	2.0685E-02
520334.47	4258343.11	103047.2009	0.29705	0.59599	0.30309	0.65224	2.06E-02	1.22E-05	2.13E-05	1.24E-05	2.24E-05	2.0705E-02
520471.95	4258738	103012.2162	0.27837	0.19848	0.26801	0.20816	2.06E-02	1.14E-05	7.10E-06	1.10E-05	7.15E-06	2.0666E-02
520412.44	4258835.59	102951.565	0.39053	0.19895	0.37471	0.21102	2.06E-02	1.60E-05	7.12E-06	1.53E-05	7.24E-06	2.0663E-02
520121.89	4258844.36	102915.4704	6.22361	0.64937	5.33522	0.60765	2.06E-02	2.55E-04	2.32E-05	2.18E-04	2.09E-05	2.1128E-02
520354.05	4258343.18	102803.3622	0.28167	0.52636	0.28584	0.57331	2.06E-02	1.15E-05	1.88E-05	1.17E-05	1.97E-05	2.0650E-02
520454.18	4258778.28	102766.0557	0.31017	0.19553	0.2987	0.20584	2.06E-02	1.27E-05	6.99E-06	1.22E-05	7.07E-06	2.0619E-02
520324.68	4258343.08	102669.037	0.30477	0.63673	0.31182	0.69817	2.06E-02	1.25E-05	2.28E-05	1.28E-05	2.40E-05	2.0633E-02
520236.52	4258362.81	102668.1307	0.39539	1.28719	0.40697	1.44165	2.06E-02	1.62E-05	4.60E-05	1.67E-05	4.95E-05	2.0688E-02
520107.21	4258828.3	102646.0596	9.16981	0.72505	7.89922	0.66729	2.06E-02	3.75E-04	2.59E-05	3.23E-04	2.29E-05	2.1304E-02
520395.12	4258852.77	102622.6404	0.43079	0.2037	0.41295	0.21596	2.06E-02	1.76E-05	7.29E-06	1.69E-05	7.41E-06	2.0601E-02
520197.17	4258893.1	102577.8239	1.87423	0.38527	1.71993	0.40085	2.05E-02	7.67E-05	1.38E-05	7.04E-05	1.38E-05	2.0717E-02
520466.23	4258403.82	102494.768	0.22011	0.28062	0.21973	0.29916	2.05E-02	9.01E-06	1.00E-05	9.00E-06	1.03E-05	2.0564E-02
520256.59	4258903	102451.8826	1.0755	0.2877	1.01595	0.30841	2.05E-02	4.40E-05	1.03E-05	4.16E-05	1.06E-05	2.0624E-02
520140.53	4258862.04	102449.5091	4.20634	0.56284	3.66819	0.54172	2.05E-02	1.72E-04	2.01E-05	1.50E-04	1.86E-05	2.0878E-02
520365.45	4258872.82	102433.8188	0.50922	0.21442	0.48803	0.22705	2.05E-02	2.08E-05	7.67E-06	2.00E-05	7.79E-06	2.0570E-02
520265.92	4258352.9	102357.4291	0.36024	0.99195	0.37073	1.10107	2.05E-02	1.47E-05	3.55E-05	1.52E-05	3.78E-05	2.0602E-02
520266.5	4258902.98	102331.456	0.99535	0.27706	0.94307	0.29721	2.05E-02	4.08E-05	9.91E-06	3.86E-05	1.02E-05	2.0593E-02
520246.69	4258903.02	102285.0237	1.16641	0.29933	1.098	0.32031	2.05E-02	4.78E-05	1.07E-05	4.50E-05	1.10E-05	2.0598E-02
520363.84	4258343.21	102212.8483	0.27412	0.49638	0.27745	0.53923	2.05E-02	1.12E-05	1.78E-05	1.14E-05	1.85E-05	2.0528E-02
520054.46	4258724.97	102212.1665	5.84044	1.29142	10.27215	1.20498	2.05E-02	2.39E-04	4.62E-05	4.21E-04	4.14E-05	2.1217E-02
520481.25	4258457.95	102067.906	0.22008	0.25294	0.21801	0.2688	2.04E-02	9.01E-06	9.05E-06	8.93E-06	9.23E-06	2.0477E-02
520314.9	4258343.05	102018.4452	0.31246	0.68205	0.32049	0.74915	2.04E-02	1.28E-05	2.44E-05	1.31E-05	2.57E-05	2.0507E-02
520049.93	4258627.98	101877.4904	3.5615	3.85492	5.93579	3.16212	2.04E-02	1.46E-04	1.38E-04	2.43E-04	1.09E-04	2.1038E-02
520276.4	4258902.97	101863.42	0.92367	0.26717	0.8774	0.28653	2.04E-02	3.78E-05	9.56E-06	3.59E-05	9.84E-06	2.0493E-02
520236.79	4258903.03	101795.6751	1.26989	0.312	1.19066	0.33283	2.04E-02	5.20E-05	1.12E-05	4.88E-05	1.14E-05	2.0509E-02
520158.09	4258402.56	101540.4031	0.52226	3.305	0.56041	3.85602	2.03E-02	2.14E-05	1.18E-04	2.29E-05	1.32E-04	2.0630E-02
520325.88	4258892.89	101515.8007	0.65572	0.23245	0.62755	0.2476	2.03E-02	2.68E-05	8.31E-06	2.57E-05	8.50E-06	2.0399E-02
520373.63	4258343.24	101460.076	0.26681	0.46894	0.2693	0.50817	2.03E-02	1.09E-05	1.68E-05	1.10E-05	1.74E-05	2.0375E-02
520047.12	4258646.05	101298.2705	3.6197	2.84111	5.6737	2.46016	2.03E-02	1.48E-04	1.02E-04	2.32E-04	8.45E-05	2.0853E-02
520478.49	4258722.38	101292.2787	0.26744	0.19906	0.25746	0.20883	2.03E-02	1.10E-05	7.12E-06	1.05E-05	7.17E-06	2.0321E-02
520412.75	4258353.36	101230.0018	0.24269	0.37677	0.24249	0.40401	2.03E-02	9.94E-06	1.35E-05	9.93E-06	1.39E-05	2.0320E-02
520305.11	4258343.02	101165.3938	0.32013	0.73251	0.32897	0.80597	2.03E-02	1.31E-05	2.62E-05	1.35E-05	2.77E-05	2.0340E-02
520286.3	4258902.95	101138.7125	0.85974	0.25804	0.81842	0.27654	2.03E-02	3.52E-05	9.23E-06	3.35E-05	9.49E-06	2.0342E-02
520459.98	4258391.14	101047.8738	0.22138	0.29213	0.22161	0.31117	2.02E-02	9.06E-06	1.04E-05	9.07E-06	1.07E-05	2.0275E-02
520482.08	4258480.77	101039.6651	0.22306	0.24739	0.22034	0.2632	2.02E-02	9.13E-06	8.85E-06	9.02E-06	9.04E-06	2.0271E-02
520226.89	4258903.05	100976.7171	1.38884	0.32576	1.29635	0.34593	2.02E-02	5.69E-05	1.17E-05	5.31E-05	1.19E-05	2.0355E-02
520385.24	4258862.79	100771.2254	0.45495	0.20567	0.43594	0.21787	2.02E-02	1.86E-05	7.36E-06	1.78E-05	7.48E-06	2.0232E-02
520432.3	4258363.42	100707.6038	0.2325	0.34044	0.23246	0.36301	2.02E-02	9.52E-06	1.22E-05	9.52E-06	1.25E-05	2.0212E-02
520167.45	4258883.15	100473.3836	2.71315	0.45972	2.43274	0.46111	2.01E-02	1.11E-04	1.64E-05	9.96E-05	1.58E-05	2.0364E-02
520207.13	4258372.72	100415.6138	0.43186	1.73948	0.44851	1.97188	2.01E-02	1.77E-05	6.22E-05	1.84E-05	6.77E-05	2.0276E-02
520050.99	4258716.6	100360.4099	5.04562	1.36055	8.33612	1.26831	2.01E-02	2.07E-04	4.87E-05	3.41E-04	4.35E-05	2.0739E-02
520187.27	4258893.12	100264.0608	2.10211	0.40414	1.91544	0.41571	2.01E-02	8.61E-05	1.45E-05	7.84E-05	1.43E-05	2.0272E-02
520355.57	4258882.84	100166.7392	0.54498	0.21725	0.52207	0.23026	2.01E-02	2.23E-05	7.77E-06	2.14E-05	7.91E-06	2.0119E-02
520187.52	4258382.66	100126.9752	0.46278	2.18714	0.48658	2.5058	2.01E-02	1.89E-05	7.82E-05	1.99E-05	8.97E-05	2.0255E-02
520463.86	4258764.27	100122.8658	0.2941	0.19456	0.28311	0.20441	2.01E-02	1.20E-05	6.96E-06	1.16E-05	7.02E-06	2.0089E-02
520256.13	4258352.87	100102.2724	0.36753	1.08138	0.37802	1.20346	2.00E-02	1.50E-05	3.87E-05	1.55E-05	4.13E-05	2.0157E-02
520295.32	4258342.99	100070.3491	0.32768	0.78871	0.33712	0.8694	2.00E-02	1.34E-05	2.82E-05	1.38E-05	2.98E-05	2.0126E-02
520296.2	4258902.93	100040.4885	0.8014	0.24933	0.76424	0.26689	2.00E-02	3.28E-05	8.92E-06	3.13E-05	9.16E-06	2.0117E-02
520216.99	4258903.07	99766.34423	1.52518	0.34043	1.41652	0.3593	2.00E-02	6.24E-05	1.22E-05	5.80E-05	1.23E-05	2.0125E-02
520335.79	4258892.87	99569.04779	0.61787	0.22577	0.59158	0.24011	1.99E-02	2.53E-05	8.08E-06	2.42E-05	8.24E-06	2.0006E-02
520112.79	4258840.6	99549.78366	7.83442	0.67476	6.70481	0.62417	1.99E-02	3.21E-04	2.41E-05	2.75E-04	2.14E-05	2.0577E-02
520226.74	4258362.78	99446.65237	0.40209	1.42016	0.41463	1.59626	1.99E-02	1.65E-05	5.08E-05	1.70E-05	5.48E-05	2.0055E-02
520158.6	4258879.5	99427.12015	3.08084	0.4851	2.74193	0.48003	1.99E-02	1.26E-04	1.74E-05	1.12E-04	1.65E-05	2.0184E-02
520450.83	4258377.21	99387.2402	0.22394	0.30882	0.22445	0.32853	1.99E-02	9.17E-06	1.10E-05	9.19E-06	1.13E-05	1.9944E-02
520393.2	4258343.3	99321.91859	0.25289	0.42024	0.25381	0.4534	1.99E-02	1.04E-05	1.50E-05	1.04E-05	1.56E-05	1.9942E-02
520088.94	4258810.77	98905.23773	14.80654	0.80001	16.84123	0.73174	1.98E-02	6.06E-04	2.86E-05	6.90E-04	2.51E-05	2.1157E-02
520098.61	4258824.75	98787.58034	11.97909	0.7426	10.65881	0.68011	1.98E-02	4.90E-04	2.66E-05	4.36E-04	2.33E-05	2.0760E-02
520306.1	4258902.92	98708.47935	0.74899	0.24121	0.71527	0.25787	1.98E-02	3.07E-05	8.63E-06	2.93E-05	8.85E-06	1.9845E-02
520285.53	4258342.96	98604.7512	0.33495	0.85228	0.34485	0.94089	1.97E-02	1.37E-05	3.05E-05	1.41E-05	3.23E-05	1.9838E-02
520375.36	4258872.8	98579.24005	0.48174	0.20768	0.46151	0.21984	1.97E-02	1.97E-05	7.43E-06	1.89E-05	7.55E-06	1.9795E-02
520207.09	4258903.08	98325.10969	1.68687	0.35647	1.55776	0.37332	1.97E-02	6.91E-05	1.28E-05	6.38E-05	1.28E-05	1.9849E-02
520047.12	4258636.77	98308.77144	3.40868	3.22763	5.38755	2.73211	1.97E-02	1.40E-04	1.15E-04	2.21E-04	9.38E-05	2.0257E-02
520422.54	4258353.39	98308.45848	0.23607	0.35944	0.23585	0.38431	1.97E-02	9.67E-06	1.29E-05	9.66E-06	1.32E-05	1.9733E-02
520453.3	4258788.66	98245.48509	0.31359	0.19221	0.30178	0.20251	1.97E-02	1.28E-05	6.88E-06	1.24E-05	6.95E-06	1.9714E-02
520149.75	4258875.84	98159.67812	3.54914	0.51159	3.13225	0.4989	1.97E-02	1.45E-04	1.83E-05	1.28E-04	1.71E-05	1.9967E-02
520047.53	4258708.24	98153.1564	4.46991	1.43458	6.94217	1.33547	1.97E-02	1.83E-04	5.13E-05	2.84E-04	4.58E-05	2.0221E-02
520485.03	4258706.76	98123.54788	0.25708	0.19886	0.24758	0.20903	1.97E-02	1.05E-05	7.12E-06	1.01E-05	7.18E-06	1.9686E-02
520167.91	4258392.59	97976.36693	0.49244	2.85066	0.52544	3.30648	1.96E-02	2.02E-05	1.02E-04	2.15E-05	1.14E-04	1.9878E-02
520177.37	4258893.13	97752.05313	2.3831	0.4242	2.15391	0.43042	1.96E-02	9.76E-05	1.52E-05	8.82E-05	1.48E-05	1.9792E-02
520122.59	4258854.64	97660.61767	6.13487	0.61749	5.25412	0.57754	1.96E-02	2.51E-04	2.21E-05	2.15E-04	1.98E-05	2.0066E-02
520246.34	4258352.84	97576.4535	0.37436	1.18341	0.38503	1.32072	1.95E-02	1.53E-05	4.23E-05	1.58E-05	4.53E-05	1.9660E-02
520402.99	4258343.33	97479.05858	0.24611	0.39891	0.24654	0.42928	1.95E-02	1.01E-05	1.43E-05	1.01E-05	1.47E-05	1.9571E-02
520049.89	4258618.28	97427.77614	3.2211	4.48042	5.4233	3.53232	1.95E-02	1.32E-04	1.60E-04	2.22E-04	1.21E-04	2.0147E-02
520316	4258902.9	97054.46901	0.70092	0.23345	0.6701	0.2492	1.94E-02	2.87E-05	8.35E-06	2.74E-05	8.56E-06	1.9510E-02
520275.74	4258342.93	96964.02415	0.34206	0.92293	0.35204	1.02109	1.94E-02	1.40E-05	3.30E-05	1.44E-05	3.51E-05	1.9515E-02
520484.73	4258467.07	96942.34573	0.21905	0.24725	0.2167	0.26279	1.94E-02	8.97E-06	8.84E-06	8.87E-06	9.02E-06	1.9450E-02
520140.9	4258872.19	96884.88333	4.18811	0.53913	3.65181	0.5177	1.94E-02	1.71E-04	1.93E-05	1.50E-04	1.78E-05	1.9761E-02
520256.61	4258913	96780.93946	1.08535	0.28092	1.02462	0.30095	1.94E-02	4.44E-05	1.00E-05	4.20E-05	1.03E-05	1.9488E-02
520059.69	4258569.75	96770.19266	2.12571	12.82806	3.33569	8.85191	1.94E-02	8.70E-05	4.59E-04	1.37E-04	2.35E-04	2.0297E-02
520246.71	4258913.02	96640.07475	1.17725	0.29227	1.10745	0.31237	1.94E-02	4.82E-05	1.05E-05	4.53E-05	1.07E-05	1.9468E-02
520197.19	4258903.1	96583.35762	1.87886	0.37364	1.72392	0.38753	1.93E-02	7.69E-05	1.34E-05	7.06E-05	1.33E-05	1.9516E-02
520266.51	4258912.98	96565.97837	1.00328	0.27035	0.95008	0.28997	1.93E-02	4.11E-05	9.67E-06	3.89E-05	9.95E-06	1.9438E-02
520395.14	4258862.77	96475.16064	0.43106	0.19975	0.41474	0.21159	1.93E-02	1.77E-05	7.14E-06	1.70E-05	7.26E-06	1.9370E-02
520462.63	4258774.79	96469.64031	0.29787	0.19164	0.28667	0.20146	1.93E-02	1.22E-05	6.85E-06	1.17E-05	6.92E-06	1.9357E-02
520365.47	4258882.82	96389.89334	0.51261	0.20991	0.49098	0.22223	1.93E-02	2.10E-05	7.51E-06	2.01E-05	7.63E-06	1.9360E-02
520236.81	4258913.03	96202.71595	1.28187	0.30459	1.201	0.32434	1.93E-02	5.25E-05	1.09E-05	4.92E-05	1.11E-05	1.9390E-02
520429.77	4258828.42	96168.81832	0.35875	0.19166	0.34439	0.20294	1.93E-02	1.47E-05	6.86E-06	1.41E-05	6.97E-06	1.9302E-02
520276.41	4258912.97	96131.87099	0.93106	0.26073	0.88399	0.27971	1.93E-02	3.81E-05	9.33E-06	3.62E-05	9.60E-06	1.9345E-02
520474.38	4258472.38	96100.00321	0.81096	13.82781	0.89932	15.73937	1.92E-02	3.32E-05	4.95E-04	3.68E-05	5.40E-04	2.0350E-02
520459.61	4258380.96	96049.70161	0.21926	0.29533	0.21967	0.31414	1.92E-02	8.98E-06	1.06E-05	8.99E-06	1.08E-05	1.9275E-02
520103.68	4258836.84	96035.98539	10.23108	0.69487	8.8498	0.63807	1.92E-02	4.19E-04	2.49E-05	3.62E-04	2.19E-05	2.0061E-02
520128.66	4258422.47	95988.43063	0.57589	5.74265	0.62063	6.9111	1.92E-02	2.36E-05	2.05E-04	2.54E-05	2.37E-04	1.9715E-02
520197.34	4258372.69	95982.38955	0.4366	1.9531	0.45696	2.22342	1.92E-02	1.79E-05	6.99E-05	1.87E-05	7.63E-05	1.9405E-02
520468.95	4258394.98	95962.84011	0.21646	0.27936	0.21636	0.29751	1.92E-02	8.86E-06	9.99E-06	8.86E-06	1.02E-05	1.9256E-02
520216.95	4258362.75	95908.00982	0.408	1.57452	0.42245	1.77681	1.92E-02	1.67E-05	5.63E-05	1.73E-05	6.10E-05	1.9358E-02
520226.91	4258913.05	95462.97781	1.40215	0.31791	1.3077	0.33681	1.91E-02	5.74E-05	1.14E-05	5.35E-05	1.16E-05	1.9252E-02
520286.31	4258912.95	95452.19103	0.86655	0.25185	0.82453	0.27004	1.91E-02	3.55E-05	9.01E-06	3.38E-05	9.27E-06	1.9203E-02
520325.9	4258902.89	95330.93257	0.65834	0.2264	0.62983	0.24133	1.91E-02	2.70E-05	8.10E-06	2.58E-05	8.29E-06	1.9166E-02
520412.78	4258343.36	95268.7575	0.23951	0.37947	0.23961	0.40725	1.91E-02	9.81E-06	1.36E-05	9.81E-06	1.40E-05	1.9126E-02
520138.48	4258412.5	95164.07803	0.54639	4.68896	0.58872	5.55751	1.91E-02	2.24E-05	1.68E-04	2.41E-05	1.91E-04	1.9463E-02
520118.84	4258432.44	95079.08181	0.60527	7.26911	0.65297	8.84459	1.90E-02	2.48E-05	2.60E-04	2.67E-05	3.04E-04	1.9656E-02
520265.95	4258342.9	95033.395	0.34881	1.00283	0.35877	1.112	1.90E-02	1.43E-05	3.59E-05	1.47E-05	3.82E-05	1.9135E-02
520432.33	4258353.42	94959.85164	0.22968	0.34268	0.22947	0.36555	1.90E-02	9.40E-06	1.23E-05	9.40E-06	1.25E-05	1.9061E-02
520167.47	4258893.15	94939.90425	2.72872	0.44463	2.44473	0.4442	1.90E-02	1.12E-04	1.59E-05	1.00E-04	1.52E-05	1.9256E-02
520090.01	4258821.21	94777.94513	15.57065	0.75393	15.80948	0.69034	1.90E-02	6.38E-04	2.70E-05	6.47E-04	2.37E-05	2.0316E-02
520113.61	4258850.93	94725.20389	7.6777	0.64018	6.55437	0.59239	1.90E-02	3.14E-04	2.29E-05	2.68E-04	2.03E-05	1

520104.64	4258847.23	91579.267	9.91839	0.65803	8.54143	0.60481	1.83E-02	4.06E-04	2.35E-05	3.50E-04	2.08E-05	1.9140E-02
520486.85	4258726.34	91411.10498	0.25897	0.19266	0.2491	0.20187	1.83E-02	1.06E-05	6.89E-06	1.02E-05	6.93E-06	1.8341E-02
520256.63	4258923	91396.63196	1.09222	0.27398	1.03056	0.2932	1.83E-02	4.47E-05	9.80E-06	4.22E-05	1.01E-05	1.8410E-02
520197.21	4258913.1	91391.22591	1.89496	0.36365	1.73707	0.37581	1.83E-02	7.76E-05	1.30E-05	7.11E-05	1.29E-05	1.8477E-02
520109.02	4258442.41	91391.429	0.63348	9.64666	0.68592	11.70149	1.83E-02	2.59E-05	3.45E-04	2.81E-05	4.02E-04	1.9103E-02
520459.32	4258370.83	91338.06871	0.21706	0.29842	0.21748	0.31699	1.83E-02	8.89E-06	1.07E-05	8.90E-06	1.09E-05	1.8331E-02
520488.6	4258472.02	91304.88749	0.21703	0.2424	0.2145	0.25759	1.83E-02	8.89E-06	8.67E-06	8.78E-06	8.84E-06	1.8320E-02
520246.73	4258923.02	91279.6848	1.18471	0.28502	1.11386	0.30415	1.83E-02	4.85E-05	1.02E-05	4.56E-05	1.04E-05	1.8395E-02
520266.53	4258922.98	91214.15312	1.01004	0.26375	0.956	0.28273	1.83E-02	4.14E-05	9.43E-06	3.91E-05	9.71E-06	1.8367E-02
520187.55	4258372.66	91182.60501	0.43965	2.20928	0.46427	2.52605	1.83E-02	1.80E-05	7.90E-05	1.90E-05	8.67E-05	1.8463E-02
520040.59	4258691.51	91174.47535	3.44682	1.60192	4.93618	1.47694	1.83E-02	1.41E-04	5.73E-05	2.02E-04	5.07E-05	1.8710E-02
520429.32	4258838.61	91109.0773	0.36149	0.18826	0.34661	0.19931	1.82E-02	1.48E-05	6.73E-06	1.42E-05	6.84E-06	1.8288E-02
520158.12	4258392.56	91090.32943	0.49052	3.33074	0.5261	3.88495	1.82E-02	2.01E-05	1.19E-04	2.15E-05	1.33E-04	1.8536E-02
520365.49	4258892.82	90964.66024	0.51628	0.20555	0.49419	0.21766	1.82E-02	2.11E-05	7.35E-06	2.02E-05	7.47E-06	1.8273E-02
520236.83	4258923.03	90917.19894	1.29041	0.29701	1.20831	0.31563	1.82E-02	5.28E-05	1.06E-05	4.95E-05	1.08E-05	1.8331E-02
520276.43	4258922.97	90754.39344	0.93672	0.25428	0.88898	0.27276	1.82E-02	3.84E-05	9.10E-06	3.64E-05	9.36E-06	1.8268E-02
520471.08	4258771.29	90502.74106	0.28623	0.18789	0.27533	0.19724	1.81E-02	1.17E-05	6.72E-06	1.13E-05	6.77E-06	1.8161E-02
520246.37	4258342.84	90414.12545	0.36117	1.19492	0.37152	1.33295	1.81E-02	1.48E-05	4.27E-05	1.52E-05	4.58E-05	1.8225E-02
520344.32	4258323.15	90306.55992	0.27797	0.57035	0.28482	0.62162	1.81E-02	1.14E-05	2.04E-05	1.17E-05	2.13E-05	1.8150E-02
520354.11	4258323.18	90305.3834	0.27136	0.55591	0.27733	0.58313	1.81E-02	1.11E-05	1.92E-05	1.14E-05	2.00E-05	1.8147E-02
520226.93	4258923.05	90214.92463	1.41082	0.30982	1.31505	0.32744	1.81E-02	5.78E-05	1.11E-05	5.38E-05	1.12E-05	1.8201E-02
520045.8	4258728.19	90190.3446	4.30977	1.20126	6.51248	1.12936	1.81E-02	1.76E-04	4.30E-05	2.67E-04	3.88E-05	1.8587E-02
520477.93	4258398.82	90168.37894	0.21157	0.26766	0.21111	0.28486	1.81E-02	8.66E-06	9.57E-06	8.64E-06	9.78E-06	1.8094E-02
520482.39	4258410.74	90164.668	0.21104	0.26014	0.20999	0.27677	1.81E-02	8.64E-06	9.30E-06	8.60E-06	9.50E-06	1.8093E-02
520114.34	4258861.23	90160.59153	7.54222	0.60858	6.42382	0.56332	1.81E-02	3.09E-04	2.18E-05	2.63E-04	1.93E-05	1.8669E-02
520325.92	4258912.89	90075.15973	0.66334	0.22124	0.63427	0.23605	1.80E-02	2.72E-05	7.91E-06	2.60E-05	8.10E-06	1.8108E-02
520334.53	4258323.11	90069.56293	0.28457	0.6084	0.29223	0.66411	1.80E-02	1.17E-05	2.18E-05	1.20E-05	2.28E-05	1.8106E-02
520286.33	4258922.95	90048.57052	0.87107	0.24553	0.8285	0.26332	1.80E-02	3.57E-05	8.78E-06	3.39E-05	9.04E-06	1.8121E-02
520490.45	4258717.75	90047.13237	0.25353	0.19258	0.24382	0.20195	1.80E-02	1.04E-05	6.89E-06	9.98E-06	6.93E-06	1.8067E-02
520432.36	4258343.42	89740.79249	0.22688	0.34492	0.22667	0.36818	1.80E-02	9.29E-06	1.23E-05	9.28E-06	1.26E-05	1.8015E-02
520167.49	4258903.15	89736.84271	2.7367	0.42994	2.45142	0.428	1.80E-02	1.12E-04	1.54E-05	1.00E-04	1.47E-05	1.8214E-02
520324.75	4258323.08	89512.95878	0.29103	0.65064	0.29948	0.71103	1.79E-02	1.19E-05	2.33E-05	1.23E-05	2.44E-05	1.7998E-02
520187.31	4258913.12	89485.2593	2.12464	0.38069	1.93382	0.38874	1.79E-02	8.70E-05	1.36E-05	7.92E-05	1.33E-05	1.8114E-02
520217.02	4258923.07	89284.40069	1.55144	0.32363	1.43865	0.33967	1.79E-02	6.35E-05	1.16E-05	5.89E-05	1.17E-05	1.8026E-02
520403.52	4258869.31	89246.1977	0.41708	0.19247	0.39907	0.20369	1.79E-02	1.71E-05	6.88E-06	1.63E-05	6.99E-06	1.7920E-02
520450.6	4258357.08	89231.29642	0.21908	0.31417	0.21921	0.33373	1.79E-02	8.97E-06	1.12E-05	8.98E-06	1.15E-05	1.7910E-02
520385.27	4258882.79	89160.50774	0.45927	0.19732	0.43942	0.2087	1.79E-02	1.88E-05	7.06E-06	1.80E-05	7.16E-06	1.7907E-02
520296.23	4258922.93	89132.05118	0.81224	0.23743	0.77392	0.25444	1.78E-02	3.33E-05	8.49E-06	3.17E-05	8.74E-06	1.7932E-02
520420.49	4258852.28	89090.57918	0.37957	0.1884	0.36345	0.19948	1.78E-02	1.55E-05	6.74E-06	1.49E-05	6.85E-06	1.7886E-02
520059.65	4258560.06	89049.42614	1.77752	13.22401	2.51946	7.13694	1.78E-02	7.28E-05	4.73E-04	1.03E-04	2.45E-04	1.8727E-02
520158.83	4258899.58	88988.80677	3.10129	0.45178	2.75656	0.44394	1.78E-02	1.27E-04	1.62E-05	1.13E-04	1.52E-05	1.8092E-02
520355.6	4258902.84	88837.2435	0.55113	0.2074	0.52743	0.22004	1.78E-02	2.26E-05	7.42E-06	2.16E-05	7.55E-06	1.7850E-02
520167.94	4258382.59	88598.34995	0.46478	2.87664	0.49659	3.3318	1.77E-02	1.90E-05	1.03E-04	2.03E-05	1.14E-04	1.8000E-02
520314.96	4258323.05	88545.19382	0.2972	0.69777	0.30643	0.76297	1.77E-02	1.22E-05	2.50E-05	1.25E-05	2.62E-05	1.7808E-02
520095.67	4258843.53	88450.65162	11.18314	0.67038	11.92996	0.61488	1.77E-02	5.40E-04	2.40E-05	4.88E-04	2.11E-05	1.8787E-02
520216.98	4258352.75	88323.72354	0.39123	1.58806	0.40619	1.79221	1.77E-02	1.60E-05	5.68E-05	1.66E-05	6.15E-05	1.7839E-02
520494.05	4258709.16	88318.59411	0.24823	0.19246	0.23878	0.202	1.77E-02	1.02E-05	6.88E-06	9.78E-06	6.93E-06	1.7721E-02
520085.47	4258829.33	88286.42159	15.98889	0.71469	20.56115	0.65689	1.77E-02	6.55E-04	2.56E-05	8.42E-04	2.26E-05	1.9225E-02
520335.82	4258912.87	88245.9786	0.62385	0.21475	0.59673	0.22877	1.77E-02	2.55E-05	7.68E-06	2.44E-05	7.85E-06	1.7738E-02
520150.18	4258896	88098.71859	3.56582	0.47428	3.14053	0.45972	1.76E-02	1.46E-04	1.70E-05	1.29E-04	1.58E-05	1.7950E-02
520042.06	4258719.18	88079.22885	3.81068	1.26618	5.52515	1.18798	1.76E-02	1.56E-04	4.53E-05	2.26E-04	4.08E-05	1.8107E-02
520306.13	4258922.92	88011.20841	0.75927	0.22988	0.72444	0.24607	1.76E-02	3.11E-05	8.22E-06	2.97E-05	8.45E-06	1.7703E-02
520207.12	4258923.08	88004.07784	1.71365	0.3382	1.58003	0.35194	1.76E-02	7.02E-05	1.21E-05	6.47E-05	1.21E-05	1.7783E-02
520467.94	4258374.52	87897.41161	0.21265	0.28581	0.21301	0.30356	1.76E-02	8.71E-06	1.02E-05	8.72E-06	1.04E-05	1.7641E-02
520197.37	4258362.69	87841.00388	0.41632	1.97076	0.43748	2.2416	1.76E-02	1.70E-05	7.05E-05	1.79E-05	7.70E-05	1.7774E-02
520305.17	4258323.02	87817.86469	0.30366	0.74945	0.31313	0.82111	1.76E-02	1.24E-05	2.68E-05	1.28E-05	2.82E-05	1.7667E-02
520375.39	4258892.8	87732.05128	0.48809	0.19941	0.46695	0.21097	1.76E-02	2.00E-05	7.13E-06	1.91E-05	7.24E-06	1.7623E-02
520049.81	4258598.89	87562.19374	2.42919	5.83157	3.9813	4.20921	1.75E-02	9.95E-05	2.09E-04	1.63E-04	1.45E-04	1.8151E-02
520236.59	4258342.81	87547.55459	0.36642	1.31245	0.37799	1.46802	1.75E-02	1.50E-05	4.69E-05	1.55E-05	5.04E-05	1.7660E-02
520447.1	4258821.24	87541.10433	0.32898	0.18428	0.31596	0.19464	1.75E-02	1.35E-05	6.59E-06	1.29E-05	6.68E-06	1.7571E-02
520491.66	4258459.42	87478.20388	0.21308	0.24206	0.21086	0.2569	1.75E-02	8.72E-06	8.66E-06	8.63E-06	8.82E-06	1.7554E-02
520177.4	4258913.13	87409.09588	2.40783	0.39855	2.17371	0.40135	1.75E-02	9.86E-05	1.43E-05	8.90E-05	1.38E-05	1.7720E-02
520105.49	4258857.57	87372.27633	9.66473	0.62454	8.28388	0.57452	1.75E-02	3.96E-04	2.23E-05	3.39E-04	1.97E-05	1.8274E-02
520469.94	4258781.77	87327.94343	0.28969	0.18498	0.27853	0.19432	1.75E-02	1.19E-05	6.62E-06	1.14E-05	6.67E-06	1.7525E-02
520437.87	4258835.07	87317.46788	0.34624	0.18461	0.33204	0.19528	1.75E-02	1.42E-05	6.60E-06	1.36E-05	6.70E-06	1.7528E-02
520141.52	4258892.43	87086.77204	4.17626	0.49676	3.63679	0.47496	1.74E-02	1.71E-04	1.78E-05	1.49E-04	1.63E-05	1.7794E-02
520477.17	4258388.48	87075.35925	0.20899	0.27079	0.20991	0.28797	1.74E-02	8.60E-06	9.69E-06	8.59E-06	9.89E-06	1.7475E-02
520459.09	4258360.72	86962.16101	0.21484	0.30114	0.21509	0.3196	1.74E-02	8.80E-06	1.08E-05	8.81E-06	1.10E-05	1.7455E-02
520411.88	4258865.85	86891.71084	0.39885	0.1837	0.38158	0.19969	1.74E-02	1.63E-05	6.75E-06	1.56E-05	6.86E-06	1.7447E-02
520492.07	4258481.14	86835.28691	0.21587	0.23761	0.21301	0.25246	1.74E-02	8.84E-06	8.50E-06	8.72E-06	8.67E-06	1.7425E-02
520295.38	4258322.99	86753.41351	0.30983	0.80705	0.31937	0.88589	1.74E-02	1.27E-05	2.89E-05	1.31E-05	3.04E-05	1.7459E-02
520316.03	4258922.9	86716.32667	0.71144	0.22283	0.67948	0.23821	1.74E-02	2.91E-05	7.97E-06	2.78E-05	8.18E-06	1.7439E-02
520395.17	4258882.17	86698.81126	0.43949	0.19317	0.42076	0.20419	1.74E-02	1.80E-05	6.91E-06	1.72E-05	7.01E-06	1.7412E-02
520197.22	4258923.1	86477.99166	1.90566	0.35362	1.74591	0.36421	1.73E-02	7.80E-05	1.26E-05	7.15E-05	1.25E-05	1.7493E-02
520428.93	4258848.78	86388.47358	0.36403	0.18499	0.34867	0.19577	1.73E-02	1.49E-05	6.62E-06	1.43E-05	6.72E-06	1.7343E-02
520037.12	4258683.15	86313.46727	3.00815	1.69355	4.21178	1.54866	1.73E-02	1.23E-04	6.06E-05	1.72E-04	5.32E-05	1.7695E-02
520497.64	4258700.57	86271.46949	0.2431	0.19251	0.23404	0.20212	1.73E-02	9.95E-06	6.89E-06	9.58E-06	6.94E-06	1.7310E-02
520037.12	4258673.87	86096.63812	2.90821	1.85608	4.08675	1.68053	1.72E-02	1.19E-04	6.64E-05	1.67E-04	5.77E-05	1.7653E-02
520256.65	4258933	86042.7521	1.09249	0.26659	1.03055	0.28505	1.72E-02	4.47E-05	9.54E-06	4.22E-05	9.79E-06	1.7337E-02
520057.47	4258780.46	86029.12259	7.2075	0.87184	13.11518	0.82308	1.72E-02	2.95E-04	3.12E-05	5.37E-04	2.83E-05	1.8120E-02
520177.76	4258372.63	86025.76706	0.44063	2.52017	0.46895	2.89536	1.72E-02	1.80E-05	9.01E-05	1.92E-05	9.94E-05	1.7455E-02
520246.74	4258933.02	85910.82024	1.18414	0.27722	1.11313	0.29545	1.72E-02	4.85E-05	9.92E-06	4.56E-05	1.01E-05	1.7319E-02
520266.55	4258932.98	85866.65109	1.01048	0.25663	0.95612	0.27498	1.72E-02	4.14E-05	9.18E-06	3.91E-05	9.44E-06	1.7295E-02
520114.98	4258871.48	85837.87886	7.42133	0.57961	6.31078	0.53665	1.72E-02	3.04E-04	2.07E-05	2.58E-04	1.84E-05	1.7792E-02
520365.5	4258902.82	85798.09204	0.51889	0.20095	0.49639	0.21286	1.72E-02	2.12E-05	7.19E-06	2.03E-05	7.31E-06	1.7238E-02
520053.81	4258771.61	85731.45593	6.21284	0.90891	10.11945	0.86073	1.72E-02	2.54E-04	3.25E-05	4.18E-04	2.95E-05	1.7903E-02
520236.84	4258933.03	85622.1762	1.29024	0.28892	1.20801	0.30652	1.71E-02	5.28E-05	1.03E-05	4.95E-05	1.05E-05	1.7270E-02
520285.59	4258322.96	85538.141	0.31585	0.87097	0.3252	0.95849	1.71E-02	1.29E-05	3.12E-05	1.33E-05	3.29E-05	1.7220E-02
520276.45	4258932.97	85463.26966	0.93767	0.24747	0.88956	0.26544	1.71E-02	3.84E-05	8.85E-06	3.64E-05	9.11E-06	1.7208E-02
520038.33	4258710.17	85274.87608	3.35222	1.33676	4.70555	1.24884	1.71E-02	1.37E-04	4.78E-05	1.93E-04	4.29E-05	1.7498E-02
520325.93	4258922.89	85245.59613	0.66805	0.21621	0.63846	0.23081	1.71E-02	2.74E-05	7.73E-06	2.61E-05	7.92E-06	1.7141E-02
520354.14	4258313.18	85182.76945	0.26637	0.54042	0.27281	0.58796	1.71E-02	1.09E-05	1.93E-05	1.12E-05	2.02E-05	1.7121E-02
520050.14	4258762.77	85136.84406	5.39066	0.94867	8.26461	0.90042	1.70E-02	2.21E-04	3.39E-05	3.38E-04	3.09E-05	1.7674E-02
520037.12	4258664.6	85112.04839	2.79532	2.04192	3.94425	1.82776	1.70E-02	1.14E-04	7.30E-05	1.61E-04	6.27E-05	1.7457E-02
520167.5	4258913.15	85079.41046	2.7555	0.41645	2.4657	0.41302	1.70E-02	1.13E-04	1.49E-05	1.01E-04	1.42E-05	1.7281E-02
520460.08	4258805.86	85022.84143	0.30734	0.18211	0.29512	0.19189	1.70E-02	1.26E-05	6.51E-06	1.21E-05	6.59E-06	1.7065E-02
520363.93	4258313.21	85003.97983	0.26019	0.50869	0.26584	0.55255	1.70E-02	1.07E-05	1.82E-05	1.09E-05	1.90E-05	1.7082E-02
520344.35	4258313.15	84955.34521	0.27238	0.57569	0.2797	0.62693	1.70E-02	1.12E-05	2.06E-05	1.15E-05	2.15E-05	1.7078E-02
520226.94	4258933.05	84908.49075	1.40791	0.30099	1.3125	0.31752	1.70E-02	5.76E-05	1.08E-05	5.37E-05	1.09E-05	1.7137E-02
520128.69	4258412.47	84869.28826	0.53388	5.78203	0.57204	6.93622	1.70E-02	2.19E-05	2.07E-04	2.34E-05	2.38E-04	1.7486E-02
520086.7	4258839.83	84846.84843	15.5131	0.67659	18.79702	0.62227	1.70E-02	6.35E-04	2.42E-05	7.70E-04	2.14E-05	1.8442E-02
520483.06	4258759.36	84829.09194	0.26959	0.18473	0.25902	0.19354	1.70E-02	1.10E-05	6.61E-06	1.06E-05	6.64E-06	1.7023E-02
520420.24	4258862.39	84813.92287	0.38247	0.18536	0.36599	0.19612	1.70E-02	1.57E-05	6.63E-06	1.50E-05	6.73E-06	1.7029E-02
520286.35	4258932.95	84772.50759	0.8717	0.23888	0.82879	0.25625	1.70E-02	3.57E-05	8.54E-06	3.39E-05	8.80E-06	1.7064E-02
520187.32	4258923.12	84741.35392	2.13655	0.36082	1.94354	0.37629	1.70E-02	8.75E-05	1.32E-05	7.96E-05	1.29E-05	1.7164E-02
520138.51	4258402.5	84689.81628	0.50906	4.72078	0.54585	5.58806	1.70E-02	2.08E-05	1.69E-04	2.23E-05	1.92E-04	1.7364E-02
520207.19	4258352.72	84675.16876	0.39503	1.7698	0.41307	2.00566	1.70E-02	1.62E-05	6.33E-05	1.69E-05	6.89E-05	1.7123E-02
520096.64	4258853.92	84649.24094	12.79461	0.63582	11.3963	0.58375	1.70E-02	5.24E-04	2.27E-05	4.67E-04	2.00E-05	1.7985E-02
520226.8	4258342.78	84608.7405	0.37117	1.44683	0.38455	1.62425	1.69E-02	1.52E-05	5.18E-05	1.57E-05	5.58E-05	1.7083E-02
520486.59	4258750.92	84584.79065	0.26399	0.18544	0.25367	0.19413	1.69E-02	1.08E-05	6.63E-06	1.04E-05	6.66E-06	1.6974E-02
520334.57	4258313.11	84577.71676	0.27838	0.61442	0.28644	0.66981	1.69E-02	1.14E-05	2.20E-05	1.17E-05	2.30E-05	1.7006E-02
520373.72	4258313.24	84481.01086	0.25395	0.47998	0.25888	0.52032	1.69E-02	1.04E-05	1.72E-05	1.06E-05	1.79E-05	1.6975E-02
520158.45	4258909.41	84423.11546	3.14453	0.43791	2.78975	0.42853	1.69E-02	1.29E-04	1.57E-05	1.14E-04	1.47E-05	1.7180E-02
520385.29	4258892.79	84420.26823	0.46258	0.19364	0.44224	0.20474	1.69E-02	1.89E-05	6.93E-06	1.81E-05	7.03E-06	1.6957E-02
520046.47	4258753.92	84226.81337	4.706	0.99228	6.88273	0.94258	1.69E-02	1.93E-04	3.55E-05	2.82E-04	3.24E-05	1.7410E-02
520217.04	4258933.07	84164.13002	1.55042	0.31456	1.43789	0.32938	1.69E-02	6.35E-05	1.13E-05	5.89E-05	1.13E-05	1.7000E-02
520490.12	4258742.49	84094.04676	0.25851	0.18602	0.24843	0.19465	1.68E-02	1.06E-05	6.65E-06	1.02E-05	6.68E-06	1.6875E-02
520467.58	4258364.35	84072.84981	0.21063	0.28877	0.21095	0.30631	1.68E-02	8.62E-06	1.03E-05	8.64E-06	1.05E-05	1.6875E-02
520324.78	4258313.08	84043.90616	0.28434	0.65718	0.29295	0.71726	1.68E-02	1.16E-05	2.35E-05	1.20E-05	2.46E-05	1.6903E-02
520469	4258792.16	84036.50388	0.29284	0.18196	0.28137	0.19129	1.68E-02	1.20E-05	6.51E-06	1.15E-05	6.57E-06	1.6866E-02
520296.25	4258932.93	83924.57811	0.81299	0.23103	0.77432	0.24769	1.68E-02	3.33E-05	8.26E-06	3.17E-05	8.50E-06	1.6889E-02
520501.24	4258691.98	83912.43596	0.23812	0.19253	0.22946	0.20211	1.68E-02	9.75E-06	6.89E-06	9.40E-06	6.94E-06	1.6838E-02
520486.91	4258402.66	83895.79415	0.20675	0.25673	0.2059	0.27297	1.68E-02	8.47E-06	9.18E-06	8.43E-06	9.37E-06	1.6837E-02
520476.56	4258378.21	83890.01941	0.20826	0.27413	0.20848	0.2911	1.68E-02	8.53E-06	9.81E-06	8.54E-06	9.99E-06	1.6837E-02
520275.8	4258322.93	83879.73668	0.32137	0.94295	0.33071	1.03988	1.68E-02	1.32E-05	3.37E-05	1.35E-05	3.57E-05	1.6894E-02
520355.62	4258912.84	83849.80489	0.55374	0.20256	0.52963	0.21506	1.68E-02	2.27E-05	7.25E-06	2.17E-05	7.38E-06	1.6851E-02
520383.51	4258313.27	83845.36076	0.24786	0.45358	0.25198	0.49083	1.68E-02	1.01E-05	1.62E-05	1.03E-05	1.69E-05	1.6845E-02
520062.79	4258799.98	83784.65051	9.1055	0.78993	17.2231	0.74233	1.68E-02	3.73E-04	2.83E-05	7.05E-04	2.55E-05	1.7911E-02
520118.87	4258422.44	83548.15397	0.55801	7.30821	0.59824	8.88098	1.67E-02	2.28E-05	2.61E-04	2.45E-05	3.05E-04	1.7345E-02
520446.42	4258831.53	83485.86277	0.33184	0.18118	0.31839	0.19143	1.67E-02	1.36E-05	6.48E-06	1.30E-05	6.57E-06	1.6759E-02
520149.41	4258905.68	83439.71275	3.62542	0.45927	3.18866	0.44337	1.67E-02	1.48E-04	1.64E-05	1.31E-04	1.52E-05	1.7021E-02
520187.58	4258362.66	83355.63517	0.41815	2.22831	0.44301	2.54502	1.67E-02	1.71E-05	7.97E-05	1.81E-05	8.74E-05	1.6895E-02
520037.12	4258655.32	83343.36916	2.66772	2.25418	3.78072	1.99134	1.67E-02	1.09E-04	8.06E-05	1.55E-04	6.84E-05	1.7104E-02
520314.99	4258313.05	83342.88378	0.29021	0.70441	0.29916	0.76989	1.67E-02	1.19E-05	2.52E-05	1.22E-05	2.64E-05	1.6766E-02
520493.65	4258734.05	83340.7498	0.25318	0.18641	0.24332	0.19506	1.67E-02	1.04E-05	6.67E-06	9.96E-06	6.70E-06	1.6724E-02
520099.2	4258452.38	83321.50609	0.65953	13.82893	0.72015	15.83704	1.67E-02	2.70E-05	4.95E-04	2.95E-05	5.44E-04	1.7781E-02
520106.21	4258867.87	83315.69847	9.42837	0.59373	8.05927	0.54667	1.67E-02	3.86E-04	2.12E-05	3.30E-04	1.88E-05	1.7441E-02
520495	4258468.18	83231.41901	0.21203	0.23691	0.20952	0.2515	1.67E-02	8.68E-06	8.47E-06	8.58E-06	8.63E-06	1.6703E-02
520455.76	4258817.66	83217.08052	0.31543	0.18071	0.30293	0.19061	1.67E-02	1.29E-05	6.46E-06	1.24E-05	6.54E-06	1.6704E-02
520207.14	4258933.08	83054.17724	1.71329	0.3286	1.58002	0.34105	1.66E-02	7.01E-05	1.18E-05	6.47E-05	1.17E-05	1.6791E-02
520437.38	4258845.28	83034.34485	0.34882	0.18151	0.3342	0.19196	1.66E-02	1.43E-05	6.49E-06	1.37E-05	6.59E-06	1.6670E-02
520393.3	4258313.3	83003.82002	0.24186	0.42934	0.24517	0.46378	1.66E-02	9.90E-06	1.54E-05	1.00E-05	1.59E-05	1.6674E-02
520306.15	4258932.92	82899.00474	0.76019	0.22377	0.72501	0.23967	1.66E-02	3.11E-05	8.00E-06	2.97E-05	8.23E-06	1.6679E-02
520458.9	4258350.62	82855.9088	0.2126	0.30362	0.2121	0.3221	1.66E-02	8.70E-06	1.09E-05	8.72E-06	1.11E-05	1.6632E-02
520375.41	4258902.8	82853.60398	0.49052	0.19513	0.46898	0.20646	1.66E-02	2.01E-05	6.98E-06	1.92E-05	7.09E-06	1.6646E-02
520042.8	4258745.07	82846.17439	4.07594	1.04073	5.84402	0.98707	1.66E-02	1.67E-04	3.72E-05	2.39E-04	3.39E-05	1.7068E-02
520411.74	4258875.91	82803.16042	0.40161	0.18608	0.38461	0.19664	1.66E-02	1.64E-05	6.66E-06	1.57E-05	6.75E-06	1.6628E-02
520177.42	4258923.13	82794.58077	2.41723	0.38651	2.18155	0.38786	1.66E-02	9.90E-05	1.38E-05	8.93E-05

520187.34	4258933.12	80126.97819	2.13587	0.35878	1.94382	0.36395	1.60E-02	8.75E-05	1.28E-05	7.96E-05	1.25E-05	1.6239E-02
520109.05	4258432.41	80126.01377	0.58058	9.67626	0.6247	11.73287	1.60E-02	2.38E-05	3.46E-04	2.56E-05	4.03E-04	1.6845E-02
520285.62	4258312.96	80121.11756	0.30683	0.87886	0.31559	0.9667	1.60E-02	1.26E-05	3.14E-05	1.29E-05	3.32E-05	1.6135E-02
520256.23	4258322.87	80043.96576	0.33155	1.11416	0.34147	1.23588	1.60E-02	1.36E-05	3.99E-05	1.40E-05	4.24E-05	1.6140E-02
520344.39	4258303.15	79979.58935	0.2667	0.58118	0.27436	0.63209	1.60E-02	1.09E-05	2.08E-05	1.12E-05	2.17E-05	1.6082E-02
520385.31	4258902.79	79844.22355	0.46486	0.18966	0.44413	0.20051	1.60E-02	1.90E-05	6.78E-06	1.82E-05	6.88E-06	1.6041E-02
520373.75	4258303.24	79827.35624	0.24965	0.48382	0.25515	0.52432	1.60E-02	1.02E-05	1.73E-05	1.04E-05	1.80E-05	1.6042E-02
520039.93	4258628.02	79775.93649	2.41343	3.19592	3.54716	2.66784	1.60E-02	9.88E-05	1.14E-04	1.45E-04	9.16E-05	1.6426E-02
520454.97	4258827.99	79634.16971	0.31831	0.17775	0.30546	0.18757	1.59E-02	1.30E-05	6.36E-06	1.25E-05	6.44E-06	1.5986E-02
520445.83	4258341.78	79624.06708	0.33447	0.17816	0.3206	0.18825	1.59E-02	1.37E-05	6.37E-06	1.31E-05	6.46E-06	1.5985E-02
520217.06	4258943.07	79598.74258	1.55311	3.30621	1.44023	3.31982	1.59E-02	6.36E-05	1.10E-05	5.90E-05	1.10E-05	1.6085E-02
520106.9	4258878.14	79592.53197	9.27436	0.56579	7.88558	0.52127	1.59E-02	3.80E-04	2.02E-05	3.23E-04	1.79E-05	1.6680E-02
520334.6	4258303.11	79571.2515	0.27221	0.62044	0.28043	0.67543	1.59E-02	1.11E-05	2.22E-05	1.15E-05	2.32E-05	1.6003E-02
520485.18	4258381.89	79435.61216	0.20392	0.26292	0.20387	0.27919	1.59E-02	8.35E-06	9.40E-06	8.35E-06	9.58E-06	1.5944E-02
520296.27	4258942.93	79403.39654	0.81626	0.22547	0.77708	0.24181	1.59E-02	3.34E-05	8.06E-06	3.18E-05	8.30E-06	1.5983E-02
520504.24	4258708.75	79354.08959	0.23819	0.1863	0.22894	0.19538	1.59E-02	9.75E-06	6.66E-06	9.37E-06	6.71E-06	1.5924E-02
520149.63	4258915.77	79352.06123	3.6386	0.44297	3.19633	0.4266	1.59E-02	1.49E-04	1.58E-05	1.31E-04	1.46E-05	1.6202E-02
520355.64	4258922.84	79292.56644	0.55628	0.19786	0.53174	0.21024	1.59E-02	2.28E-05	7.08E-06	2.18E-05	7.22E-06	1.5938E-02
520383.54	4258303.27	79269.90217	0.24389	0.45703	0.24865	0.49448	1.59E-02	9.99E-06	1.63E-05	1.02E-05	1.70E-05	1.5928E-02
520122.26	4258894.47	79223.38425	6.21394	0.51791	5.29762	0.48235	1.59E-02	2.54E-04	1.85E-05	2.17E-04	1.66E-05	1.6372E-02
520035.46	4258727.38	79056.73053	3.17942	1.14665	4.3631	1.08125	1.58E-02	1.30E-04	4.10E-05	1.79E-04	3.71E-05	1.6219E-02
520436.96	4258855.46	79034.08975	0.35115	0.1786	0.33628	0.18878	1.58E-02	1.44E-05	6.39E-06	1.38E-05	6.48E-06	1.5869E-02
520324.81	4258303.08	79029.16922	0.27767	0.66362	0.28623	0.72332	1.58E-02	1.14E-05	2.37E-05	1.17E-05	2.48E-05	1.5898E-02
520498.73	4258472.76	78962.63874	0.21011	0.23264	0.20742	0.24691	1.58E-02	8.60E-06	8.32E-06	8.49E-06	8.48E-06	1.5847E-02
520464.43	4258814.07	78957.92413	0.30273	0.17716	0.29053	0.18661	1.58E-02	1.24E-05	6.34E-06	1.19E-05	6.41E-06	1.5849E-02
520275.83	4258312.93	78693.36112	0.31196	0.95034	0.30256	1.04871	1.58E-02	1.28E-05	3.40E-05	1.31E-05	3.60E-05	1.5855E-02
520460.13	4258341.14	78645.5454	0.20967	0.3039	0.20955	0.3223	1.57E-02	8.58E-06	1.09E-05	8.58E-06	1.11E-05	1.5789E-02
520207.16	4258943.08	78627.4054	1.71736	0.31979	1.58363	0.33095	1.57E-02	7.03E-05	1.14E-05	6.48E-05	1.14E-05	1.5904E-02
520177.79	4258362.63	78607.96467	0.418	2.54047	0.44545	2.9151	1.57E-02	1.71E-05	9.09E-05	1.82E-05	1.00E-04	1.5969E-02
520422.66	4258313.39	78547.58632	0.22426	0.36824	0.22566	0.3951	1.57E-02	9.18E-06	1.32E-05	9.24E-06	1.36E-05	1.5775E-02
520050.47	4258787.67	78493.0757	5.58704	0.80977	8.52941	0.77145	1.57E-02	2.29E-04	2.90E-05	3.49E-04	2.65E-05	1.6353E-02
520393.33	4258303.3	78478.34033	0.23816	0.43252	0.24219	0.46715	1.57E-02	9.75E-06	1.55E-05	9.92E-06	1.60E-05	1.5768E-02
520306.17	4258942.92	78431.78803	0.76306	0.21838	0.72739	0.234	1.57E-02	3.12E-05	7.81E-06	2.98E-05	8.03E-06	1.5784E-02
520375.42	4258912.8	78394.92152	0.49293	0.19092	0.47098	0.20209	1.57E-02	2.02E-05	6.83E-06	1.93E-05	6.94E-06	1.5753E-02
520177.44	4258933.13	78330.79093	2.41362	0.57444	2.17996	0.57465	1.57E-02	9.88E-05	1.34E-05	8.93E-05	1.29E-05	1.5901E-02
520315.02	4258303.05	78316.24048	0.28301	0.71123	0.2917	0.77638	1.57E-02	1.16E-05	2.54E-05	1.19E-05	2.67E-05	1.5760E-02
520140.68	4258912.07	78280.52614	4.25323	0.4621	3.69915	0.43945	1.57E-02	1.74E-04	1.65E-05	1.51E-04	1.51E-05	1.6034E-02
520412.58	4258885.57	78250.13456	0.40134	0.18236	0.38438	0.19252	1.57E-02	1.64E-05	6.52E-06	1.57E-05	6.61E-06	1.5716E-02
520088.74	4258860.65	78206.10544	16.02295	0.60987	16.17517	0.56171	1.57E-02	6.56E-04	2.18E-05	6.70E-04	1.93E-05	1.7029E-02
520207.22	4258342.72	78147.29737	0.37809	1.78474	0.39683	2.02086	1.57E-02	1.55E-05	6.38E-05	1.62E-05	6.94E-05	1.5815E-02
520046.85	4258778.96	78054.39662	4.901	0.84193	7.12507	0.8038	1.56E-02	2.01E-04	3.01E-05	2.92E-04	2.76E-05	1.6182E-02
520246.44	4258322.84	77964.37974	0.33621	1.21648	0.34696	1.35504	1.56E-02	1.38E-05	4.35E-05	1.42E-05	4.65E-05	1.5731E-02
520037.12	4258636.77	77919.31872	2.36049	2.7619	3.37405	2.36154	1.56E-02	9.66E-05	9.88E-05	1.38E-04	8.11E-05	1.6019E-02
520428.3	4258869.05	77886.73301	0.36857	0.17885	0.3525	0.18903	1.56E-02	1.51E-05	6.40E-06	1.44E-05	6.49E-06	1.5640E-02
520475.66	4258357.8	77565.92053	0.20456	0.27989	0.20479	0.29645	1.55E-02	8.38E-06	1.00E-05	8.38E-06	1.02E-05	1.5571E-02
520395.21	4258902.77	77500.39846	0.44325	0.18545	0.42372	0.19583	1.55E-02	1.81E-05	6.63E-06	1.73E-05	6.72E-06	1.5569E-02
520197.26	4258943.1	77485.29514	1.91419	0.33419	1.7537	0.34208	1.55E-02	7.84E-05	1.20E-05	7.18E-05	1.17E-05	1.5691E-02
520305.23	4258303.02	77479.08522	0.28826	0.76367	0.29683	0.83537	1.55E-02	1.18E-05	2.73E-05	1.22E-05	2.87E-05	1.5596E-02
520507.78	4258700.32	77468.08167	0.23346	0.18628	0.22457	0.19541	1.55E-02	9.56E-06	6.66E-06	9.19E-06	6.71E-06	1.5546E-02
520098.24	4258874.57	77417.46248	12.15308	0.57499	10.5781	0.52892	1.55E-02	4.98E-04	2.06E-05	4.33E-04	1.82E-05	1.6473E-02
520403.12	4258303.33	77411.59075	0.23246	0.41009	0.23581	0.44206	1.55E-02	9.52E-06	1.47E-05	9.66E-06	1.52E-05	1.5552E-02
520030.86	4258692.16	77403.4986	2.57417	1.49019	3.46039	1.37293	1.55E-02	1.05E-04	5.33E-05	1.42E-04	4.71E-05	1.5849E-02
520495.89	4258406.5	77380.79645	0.20196	0.24645	0.20076	0.26172	1.55E-02	8.27E-06	8.82E-06	8.22E-06	8.99E-06	1.5531E-02
520043.24	4258770.25	77368.64241	4.32457	0.87654	6.06921	0.8378	1.55E-02	1.77E-04	3.14E-05	2.48E-04	2.88E-05	1.5980E-02
520113.21	4258890.74	77365.31578	7.808	0.53266	6.60339	0.49243	1.55E-02	3.20E-04	1.91E-05	2.70E-04	1.69E-05	1.6119E-02
520493.54	4258758.26	77224.65896	0.25772	0.17913	0.24735	0.18743	1.55E-02	1.06E-05	6.41E-06	1.01E-05	6.43E-06	1.5499E-02
520316.07	4258942.9	77222.23292	0.71416	0.21161	0.68139	0.22648	1.55E-02	2.92E-05	7.57E-06	2.79E-05	7.78E-06	1.5537E-02
520256.68	4258953	77145.54208	1.10197	0.25412	1.03864	0.27095	1.54E-02	4.51E-05	9.09E-06	4.25E-05	9.30E-06	1.5555E-02
520266.58	4258952.98	77040.60969	1.02017	0.24479	0.96443	0.26176	1.54E-02	4.18E-05	8.76E-06	3.95E-05	8.99E-06	1.5527E-02
520246.78	4258953.02	77033.96563	1.19408	0.26413	1.1216	0.2805	1.54E-02	4.89E-05	9.45E-06	4.59E-05	9.63E-06	1.5541E-02
520266.05	4258312.9	76944.84649	0.31663	1.03088	0.32552	1.1411	1.54E-02	1.30E-05	3.69E-05	1.33E-05	3.92E-05	1.5512E-02
520498.55	4258417.66	76927.8609	0.20218	0.24199	0.2006	0.25678	1.54E-02	8.28E-06	8.66E-06	8.21E-06	8.82E-06	1.5440E-02
520484.55	4258371.61	76913.90397	0.2023	0.26598	0.20249	0.28205	1.54E-02	8.28E-06	9.51E-06	8.29E-06	9.68E-06	1.5439E-02
520497.01	4258749.96	76854.22454	0.25258	0.17974	0.24242	0.18795	1.54E-02	1.03E-05	6.43E-06	9.93E-06	6.45E-06	1.5424E-02
520365.54	4258922.82	76842.902	0.52433	0.19216	0.50096	0.20386	1.54E-02	2.15E-05	6.87E-06	2.05E-05	7.00E-06	1.5445E-02
520236.88	4258953.03	76756.58558	1.2998	0.27496	1.21615	0.29049	1.54E-02	5.32E-05	9.83E-06	4.98E-05	9.97E-06	1.5494E-02
520055.61	4258807.01	76755.09214	6.85081	0.7368	11.62339	0.6997	1.54E-02	2.81E-04	2.64E-05	4.76E-04	2.40E-05	1.6178E-02
520276.48	4258952.97	76682.1285	0.94657	0.23605	0.89719	0.2529	1.54E-02	3.88E-05	8.44E-06	3.67E-05	8.68E-06	1.5449E-02
520049.73	4258579.49	76635.26388	1.80328	6.83525	2.68075	4.70097	1.53E-02	7.38E-05	2.44E-04	1.10E-04	1.61E-04	1.5937E-02
520476.32	4258799.14	76598.81114	0.28475	0.17575	0.27333	0.18465	1.53E-02	1.17E-05	6.29E-06	1.12E-05	6.34E-06	1.5375E-02
520187.61	4258352.66	76567.33172	0.39821	2.24465	0.42266	2.56378	1.53E-02	1.63E-05	8.03E-05	1.73E-05	8.80E-05	1.5536E-02
520432.45	4258313.42	76546.89046	0.21865	0.35085	0.21953	0.37555	1.53E-02	8.95E-06	1.25E-05	8.99E-06	1.29E-05	1.5373E-02
520031.79	4258718.53	76520.62235	2.82848	1.20472	3.79988	1.13079	1.53E-02	1.16E-04	4.31E-05	1.56E-04	3.88E-05	1.5678E-02
520167.54	4258933.15	76446.35243	2.76438	0.39035	2.47459	0.38475	1.53E-02	1.13E-04	1.40E-05	1.01E-04	1.32E-05	1.5551E-02
520039.63	4258761.54	76401.44978	3.83276	0.91431	5.24334	0.87365	1.53E-02	1.57E-04	3.27E-05	2.15E-04	3.00E-05	1.5735E-02
520469.11	4258344.98	76399.46786	0.20551	0.29094	0.20546	0.30814	1.53E-02	8.41E-06	1.04E-05	8.41E-06	1.06E-05	1.5338E-02
520295.44	4258302.99	76388.51946	0.29324	0.82185	0.30166	0.90105	1.53E-02	1.20E-05	2.94E-05	1.24E-05	3.09E-05	1.5383E-02
520494.72	4258395.99	76276.86134	0.2009	0.24965	0.20013	0.26514	1.53E-02	8.23E-06	8.93E-06	8.19E-06	9.10E-06	1.5310E-02
520226.98	4258953.05	76237.01047	1.42038	0.28643	1.3232	0.30069	1.53E-02	5.82E-05	1.02E-05	5.42E-05	1.03E-05	1.5400E-02
520454.28	4258838.28	76180.19624	0.32097	0.17484	0.30774	0.18455	1.53E-02	1.31E-05	6.25E-06	1.26E-05	6.34E-06	1.5294E-02
520412.91	4258303.36	76172.2929	0.22689	0.38932	0.22953	0.4189	1.53E-02	9.29E-06	1.39E-05	9.40E-06	1.44E-05	1.5302E-02
520286.38	4258952.95	76092.47681	0.88012	0.22789	0.83602	0.2444	1.52E-02	3.60E-05	8.15E-06	3.42E-05	8.39E-06	1.5325E-02
520138.54	4258392.5	76027.56458	0.47575	4.7484	0.50733	5.62239	1.52E-02	1.95E-05	1.70E-04	2.08E-05	1.93E-04	1.5629E-02
520325.97	4258942.89	76017.28085	0.67117	0.20558	0.64071	0.21975	1.52E-02	2.75E-05	7.35E-06	2.62E-05	7.54E-06	1.5292E-02
520158.68	4258929.5	76001.6616	3.14859	0.40883	2.79418	0.3979	1.52E-02	1.29E-04	1.46E-05	1.14E-04	1.37E-05	1.5492E-02
520403.81	4258899.21	75992.59783	0.42272	0.18223	0.40427	0.19233	1.52E-02	1.73E-05	6.52E-06	1.66E-05	6.60E-06	1.5266E-02
520187.36	4258943.12	75973.73844	2.14094	0.34858	1.94853	0.35246	1.52E-02	8.77E-05	1.25E-05	7.98E-05	1.21E-05	1.5407E-02
520445.32	4258852	75969.32815	0.33688	0.17524	0.32266	0.18512	1.52E-02	1.38E-05	6.27E-06	1.32E-05	6.36E-06	1.5254E-02
520501.93	4258460.52	75951.76887	0.20639	0.23203	0.20399	0.24597	1.52E-02	8.45E-06	8.30E-06	8.35E-06	8.44E-06	1.5244E-02
520421.28	4258881.97	75911.09358	0.3838	0.17823	0.36659	0.18829	1.52E-02	1.57E-05	6.38E-06	1.50E-05	6.46E-06	1.5246E-02
520463.52	4258824.45	75831.00993	0.3056	0.1744	0.29321	0.1838	1.52E-02	1.25E-05	6.24E-06	1.20E-05	6.31E-06	1.5223E-02
520363.99	4258293.21	75819.93839	0.2507	0.5175	0.25727	0.56129	1.52E-02	1.03E-05	1.85E-05	1.05E-05	1.93E-05	1.5243E-02
520039.89	4258618.32	75816.89227	2.18261	3.55246	3.20466	2.89523	1.52E-02	8.94E-05	1.27E-04	1.31E-04	9.94E-05	1.5630E-02
520354.21	4258293.18	75763.00651	0.25594	0.55038	0.26316	0.59747	1.52E-02	1.05E-05	1.97E-05	1.08E-05	2.05E-05	1.5234E-02
520128.72	4258402.47	75722.37547	0.49649	5.81651	0.52906	6.95403	1.52E-02	2.03E-05	2.08E-04	2.17E-05	2.39E-04	1.5653E-02
520385.32	4258912.79	75586.71947	0.46683	0.18565	0.44572	0.19628	1.51E-02	1.91E-05	6.64E-06	1.82E-05	6.74E-06	1.5188E-02
520217.07	4258953.07	75556.66473	1.56182	0.29877	1.44772	0.31117	1.51E-02	6.39E-05	1.07E-05	5.93E-05	1.07E-05	1.5276E-02
520502.07	4258481.52	75536.02711	0.20897	0.22825	0.20593	0.24224	1.51E-02	8.56E-06	8.16E-06	8.43E-06	8.32E-06	1.5161E-02
520373.78	4258293.24	75528.79499	0.24528	0.4878	0.25126	0.5283	1.51E-02	1.00E-05	1.74E-05	1.03E-05	1.81E-05	1.5182E-02
520503.97	4258733.34	75469.4977	0.2426	0.18056	0.2329	0.18881	1.51E-02	9.93E-06	6.46E-06	9.54E-06	6.48E-06	1.5146E-02
520344.42	4258293.15	75420.53629	0.26102	0.58667	0.26884	0.63718	1.51E-02	1.07E-05	2.10E-05	1.10E-05	2.19E-05	1.5169E-02
520236.65	4258322.81	75401.00747	0.33995	1.33482	0.35255	1.49105	1.51E-02	1.39E-05	4.77E-05	1.44E-05	5.12E-05	1.5227E-02
520149.83	4258925.84	75366.93052	3.63076	0.42717	3.19091	0.41056	1.51E-02	1.49E-04	1.53E-05	1.31E-04	1.41E-05	1.5402E-02
520511.31	4258691.88	75365.9069	0.22891	0.18619	0.22034	0.19527	1.51E-02	9.37E-06	6.66E-06	9.02E-06	6.70E-06	1.5125E-02
520296.28	4258952.93	75338.84159	0.82056	0.22038	0.78079	0.23637	1.51E-02	3.36E-05	7.88E-06	3.20E-05	8.11E-06	1.5169E-02
520104.16	4258887	75300.2271	10.10179	0.54366	8.57809	0.50072	1.51E-02	4.14E-04	1.94E-05	3.51E-04	1.72E-05	1.5881E-02
520058.16	4258818.05	75272.16268	7.62198	0.69903	14.115	0.66257	1.51E-02	3.12E-04	2.50E-05	5.78E-04	2.27E-05	1.6012E-02
520285.65	4258302.96	75156.19859	0.29805	0.88627	0.30631	0.9745	1.51E-02	1.22E-05	3.17E-05	1.25E-05	3.35E-05	1.5141E-02
520485.42	4258785.36	75101.85031	0.27145	0.17541	0.26062	0.1839	1.50E-02	1.11E-05	6.27E-06	1.07E-05	6.31E-06	1.5075E-02
520355.65	4258932.84	75066.0684	0.55847	0.19327	0.53347	0.20553	1.50E-02	2.29E-05	6.91E-06	2.18E-05	7.06E-06	1.5092E-02
520383.57	4258293.27	75060.64076	0.23987	0.46059	0.24518	0.49812	1.50E-02	9.82E-06	1.65E-05	1.00E-05	1.71E-05	1.5085E-02
520036.02	4258752.83	75050.24888	3.38228	0.95608	4.58254	0.91135	1.50E-02	1.38E-04	3.42E-05	1.88E-04	3.13E-05	1.5421E-02
520089.59	4258871	75039.22448	15.72186	0.58037	15.50529	0.535	1.50E-02	6.44E-04	2.08E-05	6.35E-04	1.84E-05	1.6345E-02
520502.59	4258436.39	75020.34348	0.20256	0.23519	0.20055	0.24923	1.50E-02	8.29E-06	8.41E-06	8.21E-06	8.56E-06	1.5057E-02
520334.63	4258293.11	75009.00662	0.2661	0.6263	0.27426	0.68091	1.50E-02	1.09E-05	2.24E-05	1.12E-05	2.34E-05	1.5089E-02
520256.26	4258312.87	74969.22689	0.32091	1.12196	0.33059	1.24591	1.50E-02	1.31E-05	4.01E-05	1.35E-05	4.28E-05	1.5123E-02
520473.09	4258810.48	74861.36577	0.29072	0.17375	0.27888	0.18276	1.50E-02	1.19E-05	6.21E-06	1.14E-05	6.27E-06	1.5028E-02
520158.18	4258372.56	74757.83843	0.43497	1.33278	0.46459	1.9306	1.50E-02	1.78E-05	1.21E-04	1.90E-05	1.35E-04	1.5264E-02
520493.79	4258385.58	74689.22515	0.19962	0.25255	0.19925	0.26809	1.50E-02	8.17E-06	9.03E-06	8.16E-06	9.20E-06	1.4992E-02
520207.17	4258953.08	74642.16494	1.72594	0.31171	1.591	0.32161	1.49E-02	7.07E-05	1.11E-05	6.51E-05	1.10E-05	1.5106E-02
520422.69	4258303.39	74633.91322	0.22138	0.37028	0.2234	0.39757	1.49E-02	9.06E-06	1.32E-05	9.15E-06	1.36E-05	1.4992E-02
520140.98	4258922.19	74510.57663	4.24523	0.44483	3.69181	0.42242	1.49E-02	1.74E-04	1.59E-05	1.51E-04	1.45E-05	1.5277E-02
520197.43	4258342.69	74468.70069	0.37953	2.0021	0.40128	2.27492	1.49E-02	1.55E-05	7.16E-05	1.64E-05	7.81E-05	1.5095E-02
520324.84	4258293.08	74429.72358	0.27106	0.66986	0.27939	0.72918	1.49E-02	1.11E-05	2.40E-05	1.14E-05	2.50E-05	1.4977E-02
520507.45	4258725.04	74424.95008	0.22785	0.18059	0.22832	0.18898	1.49E-02	9.74E-06	6.46E-06	9.35E-06	6.49E-06	1.4937E-02
520306.18	4258952.92	74410.60542	0.76677	0.21342	0.73054	0.22876	1.49E-02	3.14E-05	7.63E-06	2.99E-05	7.85E-06	1.4979E-02
520393.36	4258293.3	74400.34664	0.23448	0.43564	0.23909	0.47045	1.49E-02	9.60E-06	1.56E-05	9.79E-06	1.62E-05	1.4951E-02
520118.9	4258412.44	74368.84836	0.51686	7.34987	0.55101	8.90376	1.49E-02	2.12E-05	2.63E-04	2.26E-05	3.06E-04	1.5506E-02
520177.45	4258943.13	74363.35587	2.42152	0.36349	2.18704	0.36251	1.49E-02	9.91E-05	1.30E-05	8.95E-05	1.24E-05	1.5106E-02
520484.04	4258361.38	74329.02332	0.2006	0.2688	0.20083	0.28465	1.49E-02	8.21E-06	9.61E-06	8.22E-06	9.77E-06	1.4921E-02
520375.44	4258922.8	74286.04518	0.49518	0.18676	0.47282	0.19781	1.49E-02	2.03E-05	6.68E-06	1.94E-05	6.79E-06	1.4930E-02
520412.42	4258895.64	74253.06182	0.40336	0.17899	0.38603	0.18884	1.49E-02	1.65E-05	6.40E-06	1.58E-05	6.48E-06	1.4915E-02
520442.24	4258313.45	74208.60134	0.21313	0.33489	0.21363	0.35755	1.49E-02	8.73E-06	1.20E-05	8.75E-06	1.23E-05	1.4903E-02
520099.23	4258442.38	74145.44306	0.60171	13.83618	0.65228	15.87986	1.48E-02	2.46E-05	4.95E-04	2.67E-05	5.45E-04	1.5940E-02
520113.85	4258901	73741.63813	7.63126	0.50878	6.47059	0.47072	1.48E-02	3.12E-04	1.82E-05	2.65E-04	1.62E-05	1.5380E-02
520315.05	4258293.05	73707.98484	0.27592	0.71775	0.28422	0.78262	1.48E-02	1.13E-05	2.57E-05	1.16E-05	2.69E-05	1.4837E-02
520275.87	4258302.93	73683.33507	0.30253	0.9582	0.31091	1.05683	1.48E-02	1.24E-05	3.43E-05	1.27E-05	3.63E-05	1.4852E-02
520478.09	4258348.82	73637.53636	0.20134	0.27882	0.20144	0.29499	1.47E-02	8.24E-06	9.97E-06	8.25E-06	1.01E-05	1.4784E-02
520197.27	4258953.1	73566.49119	1.92181	0.32535	1.76036	0.33197	1.47E-02	7.87E-05	1.16E-05	7.21E-05	1.14E-05	1.4906E-02
520168	4258362.6	73564.39921	0.41557	2.92447	0.44361	3.3734	1.47E-02	1.70E-05	1.05E-04	1.82E-05	1.16E-04	1.4888E-02
520429.98	4258878.37	73497.89285	0.36703	0.17482	0.35059	0.18467	1.47E-02	1.50E-05	6.25E-06	1.44E-05	6.34E-06	1.4761E-02
520403.15	4258293.33	73454.41056	0.22907	0.41288	0.23304	0.44507	1.47E-02	9.38E-06	1.48E-05	9.54E-06	1.53E-05	1.4759E-02
520395.22	4258912.77	73444.12269	0.44498	0.18165	0.42512	0.19179	1.47E-02	1.82E-05	6.50E-06	1.74E-05	6.58E-06	1.4757E-02
520316.08	4258952.9	73443.53345	0.7191	0.20712	0.68573	0.22177	1.47E-02	2.94E-05	7.41E-06	2.81E-05	7.61E-06	1.4781E-02
520028.13	4258709.69	73429.87436	2.51027	1.2658	3.31777	1.18093	1.47E-02	1.03E-04	4.53E-05	1.36E-04	4.05E-05	1.5030E-02
520095.11	4258883.27	73247.94411	13.41912	0.55083	11.92286	0.50742	1.47E-02	5.49E-04	1.97E-05	4.88E-04	1.74E-05	1.5744E-02
520032.4	4258744.12	73238.47406	2.97135	1.00074	4.00913	0.94988	1.47E-02	1.22E-04	3.58E-05	1.64E-04	3.26E-05	1.5021E-02
520450.96	4258317.18	73194.4279	0.20922	0.32099	0.20931	0.3418	1.47E-02	8.57E-06	1.15E-05	8.57E-06

520028.79	4258735.41	71417.85438	2.69044	1.04649	3.55652	0.99022	1.43E-02	1.10E-04	3.74E-05	1.46E-04	3.40E-05	1.4630E-02
520039.88	4258786.27	71365.23448	3.97141	0.78326	5.39742	0.75236	1.43E-02	1.63E-04	2.80E-05	2.21E-04	2.58E-05	1.4729E-02
520296.3	4258962.93	71292.11391	0.82087	0.2149	0.78068	0.23051	1.43E-02	3.36E-05	7.69E-06	3.20E-05	7.91E-06	1.4358E-02
520344.45	4258283.15	71251.34477	0.25538	0.59202	0.26316	0.64215	1.43E-02	1.05E-05	2.12E-05	1.08E-05	2.20E-05	1.4334E-02
520383.6	4258283.27	71188.49988	0.23583	0.46421	0.24156	0.50172	1.43E-02	9.66E-06	1.66E-05	9.89E-06	1.72E-05	1.4310E-02
520109.08	4258422.41	71182.74741	0.53535	9.71718	0.57288	11.77283	1.43E-02	2.19E-05	3.48E-04	2.35E-05	4.04E-04	1.5052E-02
520355.67	4258942.84	71151.98925	0.56033	0.18881	0.53486	0.20094	1.42E-02	2.29E-05	6.75E-06	2.19E-05	6.90E-06	1.4308E-02
520504.86	4258410.35	71016.76731	0.19731	0.2372	0.19582	0.25149	1.42E-02	8.08E-06	8.48E-06	8.02E-06	8.63E-06	1.4255E-02
520422.73	4258293.39	70985.39176	0.21847	0.37247	0.22113	0.40007	1.42E-02	8.95E-06	1.33E-05	9.05E-06	1.37E-05	1.4261E-02
520438.67	4258874.77	70949.3572	0.35128	0.17157	0.33564	0.18117	1.42E-02	1.44E-05	6.14E-06	1.37E-05	6.22E-06	1.4249E-02
520497.07	4258773.76	70942.08348	0.25654	0.17282	0.24614	0.18083	1.42E-02	1.05E-05	6.18E-06	1.01E-05	6.21E-06	1.4240E-02
520481.76	4258806.89	70936.74089	0.27935	0.17047	0.26788	0.17905	1.42E-02	1.14E-05	6.10E-06	1.10E-05	6.15E-06	1.4241E-02
520141.25	4258932.29	70854.49252	4.21801	0.4283	3.67377	0.40625	1.42E-02	1.73E-04	1.53E-05	1.50E-04	1.39E-05	1.4542E-02
520049.05	4258814.29	70850.9085	5.44229	0.69011	8.0621	0.66066	1.42E-02	2.23E-04	2.47E-05	3.30E-04	2.27E-05	1.4789E-02
520086.06	4258879.53	70828.60964	14.04818	0.5539	18.67299	0.51233	1.42E-02	5.75E-04	1.98E-05	7.65E-04	1.76E-05	1.5562E-02
520334.66	4258283.11	70803.91405	0.26002	0.63198	0.26798	0.68622	1.42E-02	1.06E-05	2.26E-05	1.10E-05	2.36E-05	1.4247E-02
520492.42	4258364.97	70802.12089	0.19666	0.25839	0.19682	0.27361	1.42E-02	8.05E-06	9.24E-06	8.06E-06	9.39E-06	1.4214E-02
520177.47	4258953.13	70790.48061	2.43639	0.35333	2.19944	0.35121	1.42E-02	9.98E-05	1.26E-05	9.01E-05	1.21E-05	1.4391E-02
520049.69	4258569.8	70769.13705	1.56866	7.16762	2.19599	4.91445	1.42E-02	6.42E-05	2.56E-04	8.99E-05	1.69E-04	1.4752E-02
520442.27	4258303.45	70760.31357	0.21063	0.33652	0.21162	0.35964	1.42E-02	8.62E-06	1.20E-05	8.66E-06	1.23E-05	1.4212E-02
520477.57	4258338.58	70748.22631	0.19945	0.28169	0.19943	0.29778	1.42E-02	8.17E-06	1.01E-05	8.17E-06	1.02E-05	1.4205E-02
520207.19	4258963.08	70709.51854	1.72329	0.30319	1.58913	0.31201	1.42E-02	7.06E-05	1.08E-05	6.51E-05	1.07E-05	1.4318E-02
520503.5	4258399.75	70657.41896	0.19644	0.24022	0.19533	0.25481	1.42E-02	8.04E-06	8.59E-06	8.00E-06	8.75E-06	1.4183E-02
520036.32	4258777.68	70630.14412	3.55422	0.81389	4.72927	0.78179	1.41E-02	1.46E-04	2.91E-05	1.94E-04	2.68E-05	1.4540E-02
520393.39	4258283.3	70602.1046	0.23075	0.43893	0.23586	0.47375	1.41E-02	9.45E-06	1.57E-05	9.66E-06	1.63E-05	1.4190E-02
520187.64	4258342.66	70569.30035	0.3794	2.2621	0.40326	2.5799	1.41E-02	1.55E-05	8.09E-05	1.65E-05	8.86E-05	1.4134E-02
520285.69	4258292.96	70543.19626	0.28944	0.8934	0.29744	0.98178	1.41E-02	1.19E-05	3.20E-05	1.22E-05	3.37E-05	1.4217E-02
520412.27	4258905.71	70518.01334	0.40546	0.17557	0.38753	0.18515	1.41E-02	1.66E-05	6.28E-06	1.59E-05	6.36E-06	1.4167E-02
520503.94	4258757.36	70504.66167	0.24671	0.17388	0.23661	0.18171	1.41E-02	1.01E-05	6.22E-06	9.69E-06	6.24E-06	1.4152E-02
520487.07	4258352.66	70503.46663	0.19725	0.26705	0.1974	0.28242	1.41E-02	8.08E-06	9.55E-06	8.08E-06	9.70E-06	1.4155E-02
520306.2	4258962.92	70462.66968	0.76752	0.20818	0.73083	0.22323	1.41E-02	3.14E-05	7.45E-06	2.99E-05	7.66E-06	1.4188E-02
520236.68	4258312.81	70433.71435	0.32793	1.34388	0.34089	1.50222	1.41E-02	1.34E-05	4.81E-05	1.40E-05	5.16E-05	1.4232E-02
520114.42	4258911.23	70403.41389	7.50828	0.48691	6.36939	0.45075	1.41E-02	3.07E-04	1.74E-05	2.61E-04	1.55E-05	1.4700E-02
520375.46	4258932.8	70383.8913	0.49667	0.18251	0.47391	0.19344	1.41E-02	2.03E-05	6.53E-06	1.94E-05	6.64E-06	1.4148E-02
520324.87	4258283.08	70237.42513	0.26459	0.67574	0.27253	0.73485	1.41E-02	1.08E-05	2.42E-05	1.12E-05	2.52E-05	1.4137E-02
520256.29	4258302.87	70094.33392	0.31038	1.1305	0.32038	1.25498	1.40E-02	1.27E-05	4.04E-05	1.31E-05	4.31E-05	1.4147E-02
520095.96	4258893.61	70073.95213	13.03243	0.52549	11.43155	0.48454	1.40E-02	5.34E-04	1.88E-05	4.68E-04	1.66E-05	1.5070E-02
520507.37	4258749.16	70052.04587	0.24194	0.17438	0.23204	0.18216	1.40E-02	9.91E-06	6.24E-06	9.50E-06	6.25E-06	1.4061E-02
520027.12	4258664.6	70021.54012	2.06541	1.84842	2.75386	1.65694	1.40E-02	8.46E-05	6.61E-05	1.13E-04	5.69E-05	1.4343E-02
520450.89	4258307.14	69946.85261	0.20691	0.32256	0.20736	0.34387	1.40E-02	8.47E-06	1.15E-05	8.49E-06	1.18E-05	1.4048E-02
520217.07	4258322.75	69933.87479	0.34547	1.62853	0.36284	1.83168	1.40E-02	1.41E-05	5.83E-05	1.49E-05	6.29E-05	1.4155E-02
520429.63	4258888.52	69895.48641	0.36905	0.17171	0.35215	0.18127	1.40E-02	1.51E-05	6.14E-06	1.44E-05	6.22E-06	1.4039E-02
520502.41	4258389.27	69787.01199	0.19536	0.24312	0.19467	0.25786	1.40E-02	8.00E-06	8.70E-06	7.97E-06	8.85E-06	1.4009E-02
520024.46	4258700.84	69781.83533	2.22368	1.32825	2.89884	1.23058	1.40E-02	9.10E-05	4.75E-05	1.19E-04	4.22E-05	1.4274E-02
520462.04	4258845.08	69781.02814	0.31075	0.16886	0.29773	0.17807	1.40E-02	1.27E-05	6.04E-06	1.22E-05	6.11E-06	1.4012E-02
520197.29	4258963.1	69778.64747	1.92115	0.31642	1.76056	0.32196	1.40E-02	7.87E-05	1.13E-05	7.21E-05	1.11E-05	1.4147E-02
520403.18	4258283.33	69753.56669	0.22561	0.41587	0.23015	0.4481	1.40E-02	9.24E-06	1.49E-05	9.42E-06	1.54E-05	1.4018E-02
520395.24	4258922.77	69687.35492	0.44659	0.17786	0.42638	0.18781	1.40E-02	1.83E-05	6.36E-06	1.75E-05	6.45E-06	1.4004E-02
520032.76	4258769.08	69651.60082	3.18997	0.84693	4.17786	0.8126	1.39E-02	1.31E-04	3.03E-05	1.71E-04	2.79E-05	1.4309E-02
520315.08	4258283.05	69514.88171	0.26902	0.72379	0.27683	0.78864	1.39E-02	1.10E-05	2.59E-05	1.13E-05	2.71E-05	1.3997E-02
520345.79	4258952.85	69445.29775	0.59758	0.18999	0.57021	0.20261	1.39E-02	2.45E-05	6.80E-06	2.33E-05	6.96E-06	1.3969E-02
520471.18	4258831.29	69409.13885	0.2963	0.16847	0.28408	0.17741	1.39E-02	1.21E-05	6.03E-06	1.16E-05	6.09E-06	1.3936E-02
520432.51	4258293.42	69404.99645	0.21328	0.35458	0.21534	0.3801	1.39E-02	8.73E-06	1.27E-05	8.82E-06	1.30E-05	1.3943E-02
520256.71	4258973	69332.78075	1.10582	0.24226	1.04159	0.25753	1.39E-02	4.53E-05	8.67E-06	4.26E-05	8.84E-06	1.3990E-02
520050.82	4258825.02	69280.05516	5.78377	0.65605	8.89386	0.62733	1.39E-02	2.37E-04	2.35E-05	3.64E-04	2.15E-05	1.4526E-02
520246.81	4258973.02	69243.85845	1.19798	0.25165	1.12467	0.26628	1.39E-02	4.91E-05	9.00E-06	4.60E-05	9.14E-06	1.3980E-02
520266.61	4258972.98	69197.40448	1.02317	0.23336	0.96655	0.24896	1.39E-02	4.19E-05	8.35E-06	3.96E-05	8.55E-06	1.3956E-02
520167.57	4258953.15	69163.4176	2.78485	0.36708	2.49273	0.35971	1.39E-02	1.14E-04	1.31E-05	1.02E-04	1.23E-05	1.4092E-02
520025.18	4258726.7	69148.81582	2.42133	1.09467	3.14766	1.03122	1.38E-02	9.91E-05	3.92E-05	1.29E-04	3.54E-05	1.4151E-02
520275.9	4258292.93	69075.85183	0.29339	0.96577	0.30179	1.06454	1.38E-02	1.20E-05	3.45E-05	1.24E-05	3.65E-05	1.3929E-02
520365.57	4258942.82	69075.5244	0.52817	0.18354	0.50391	0.19503	1.38E-02	2.16E-05	6.55E-06	2.06E-05	6.70E-06	1.3888E-02
520236.91	4258973.03	68971.36231	1.30241	0.2616	1.21818	0.27526	1.38E-02	5.33E-05	9.36E-06	4.99E-05	9.45E-06	1.3934E-02
520508.82	4258473.37	68948.15442	0.20342	0.22335	0.20055	0.23681	1.38E-02	8.33E-06	7.99E-06	8.21E-06	8.13E-06	1.3840E-02
520276.51	4258972.97	68843.98807	0.94879	0.22495	0.88852	0.24064	1.38E-02	3.88E-05	8.05E-06	3.68E-05	8.26E-06	1.3879E-02
520492.57	4258792.41	68842.1122	0.26449	0.1695	0.25365	0.17763	1.38E-02	1.08E-05	6.06E-06	1.04E-05	6.10E-06	1.3820E-02
520412.97	4258283.36	68833.76723	0.2206	0.39434	0.22445	0.42436	1.38E-02	9.03E-06	1.41E-05	9.19E-06	1.46E-05	1.3832E-02
520459.51	4258310.83	68812.64333	0.20319	0.30954	0.20324	0.32916	1.38E-02	8.32E-06	1.11E-05	8.32E-06	1.13E-05	1.3820E-02
520158.47	4258949.39	68804.59835	3.18073	0.38363	2.82222	0.37136	1.38E-02	1.30E-04	1.37E-05	1.16E-04	1.27E-05	1.4051E-02
520138.58	4258382.5	68796.33599	0.44579	4.77466	0.47287	5.64604	1.38E-02	1.83E-05	1.71E-04	1.94E-05	1.94E-04	1.4180E-02
520420.79	4258902.18	68665.32267	0.3879	0.17212	0.3701	0.18157	1.38E-02	1.59E-05	6.16E-06	1.52E-05	6.23E-06	1.3795E-02
520105.57	4258907.57	68632.40515	9.51588	0.49522	8.10751	0.45717	1.37E-02	3.90E-04	1.77E-05	3.32E-04	1.57E-05	1.4500E-02
520227.01	4258973.05	68598.51732	1.42484	0.27246	1.32701	0.28469	1.37E-02	5.83E-05	9.75E-06	5.43E-05	9.77E-06	1.3870E-02
520514.24	4258732.76	68596.51	0.23274	0.17493	0.22322	0.18282	1.37E-02	9.53E-06	6.26E-06	9.14E-06	6.28E-06	1.3769E-02
520187.39	4258963.12	68592.34235	2.15336	0.32967	1.96013	0.33126	1.37E-02	8.82E-05	1.18E-05	8.03E-05	1.14E-05	1.3928E-02
520305.29	4258283.02	68588.16073	0.27323	0.77682	0.28094	0.84826	1.37E-02	1.12E-05	2.78E-05	1.15E-05	2.91E-05	1.3815E-02
520501.53	4258378.88	68547.89768	0.19412	0.2459	0.19382	0.26064	1.37E-02	7.95E-06	8.86E-06	7.94E-06	8.95E-06	1.3761E-02
520480.61	4258817.37	68547.60049	0.28232	0.16795	0.27066	0.17653	1.37E-02	1.16E-05	6.01E-06	1.11E-05	6.06E-06	1.3762E-02
520403.69	4258919.27	68477.00097	0.42627	0.1751	0.40714	0.1847	1.37E-02	1.75E-05	6.26E-06	1.67E-05	6.34E-06	1.3760E-02
520286.41	4258972.95	68359.63046	0.8827	0.21722	0.83765	0.23277	1.37E-02	3.61E-05	7.77E-06	3.43E-05	7.99E-06	1.3776E-02
520029.19	4258760.49	68348.30521	2.85681	0.88315	3.71783	0.84486	1.37E-02	1.17E-04	3.16E-05	1.52E-04	2.90E-05	1.4017E-02
520447.37	4258871.17	68310.96164	0.33647	0.16835	0.3216	0.17769	1.37E-02	1.38E-05	6.02E-06	1.32E-05	6.10E-06	1.3719E-02
520158.21	4258362.56	68301.13401	0.41072	3.40506	0.43711	3.95121	1.37E-02	1.68E-05	1.22E-04	1.79E-05	1.36E-04	1.3970E-02
520385.36	4258932.79	68233.39609	0.47144	0.17805	0.44959	0.18842	1.37E-02	1.93E-05	6.37E-06	1.84E-05	6.47E-06	1.3715E-02
520486.41	4258342.37	68186.18428	0.19557	0.27014	0.19562	0.28536	1.37E-02	8.01E-06	9.66E-06	8.01E-06	9.80E-06	1.3691E-02
520128.76	4258392.47	68174.93712	0.46336	5.83713	0.49082	6.99866	1.37E-02	1.90E-05	2.09E-04	2.01E-05	2.40E-04	1.4141E-02
520149.36	4258945.63	68149.17364	3.66653	0.39958	3.22456	0.38226	1.36E-02	1.50E-04	1.43E-05	1.32E-04	1.31E-05	1.3957E-02
520087.01	4258889.92	68087.5125	15.52568	0.52874	17.48178	0.48935	1.36E-02	6.36E-04	1.89E-05	7.16E-04	1.68E-05	1.5023E-02
520027.12	4258655.32	68057.89442	1.96193	2.00876	2.62136	1.78219	1.36E-02	8.03E-05	7.19E-05	1.07E-04	6.12E-05	1.3950E-02
520217.11	4258973.07	68041.16092	1.56651	0.2839	1.45198	0.29416	1.36E-02	6.41E-05	1.02E-05	5.95E-05	1.01E-05	1.3770E-02
520521.36	4258691.81	68034.16547	0.22023	0.18014	0.21176	0.18876	1.36E-02	9.02E-06	6.44E-06	8.67E-06	6.48E-06	1.3655E-02
520246.5	4258302.84	68032.23737	0.31363	1.23436	0.32519	1.37487	1.36E-02	1.28E-05	4.42E-05	1.33E-05	4.72E-05	1.3742E-02
520364.06	4258273.21	67916.75887	0.24102	0.5267	0.248	0.56976	1.36E-02	9.87E-06	1.88E-05	1.02E-05	1.96E-05	1.3660E-02
520226.89	4258312.78	67895.59349	0.33042	1.48053	0.34568	1.66022	1.36E-02	1.35E-05	5.30E-05	1.42E-05	5.70E-05	1.3735E-02
520373.85	4258273.24	67852.18843	0.23642	0.49599	0.24297	0.53609	1.36E-02	9.68E-06	1.77E-05	9.95E-06	1.84E-05	1.3644E-02
520354.27	4258273.18	67796.3755	0.24551	0.56027	0.25282	0.60661	1.36E-02	1.01E-05	2.00E-05	1.04E-05	2.08E-05	1.3638E-02
520296.32	4258972.93	67741.52632	0.82349	0.21012	0.78272	0.22534	1.36E-02	3.37E-05	7.52E-06	3.20E-05	7.74E-06	1.3647E-02
520438.23	4258884.96	67696.70348	0.35344	0.16853	0.3373	0.17788	1.36E-02	1.45E-05	6.03E-06	1.38E-05	6.11E-06	1.3598E-02
520355.69	4258952.84	67686.12223	0.56291	0.18471	0.53695	0.1967	1.36E-02	2.30E-05	6.61E-06	2.20E-05	6.75E-06	1.3613E-02
520422.76	4258283.39	67590.65824	0.21554	0.37479	0.2188	0.40259	1.35E-02	8.83E-06	1.34E-05	8.96E-06	1.38E-05	1.3581E-02
520052.37	4258835.65	67556.71051	6.08535	0.62441	9.76329	0.59647	1.35E-02	2.49E-04	2.23E-05	4.00E-04	2.05E-05	1.4221E-02
520442.3	4258293.45	67538.0819	0.20812	0.33822	0.20968	0.36172	1.35E-02	8.52E-06	1.21E-05	8.59E-06	1.24E-05	1.3567E-02
520383.63	4258273.27	67512.85794	0.23168	0.34812	0.23778	0.50533	1.35E-02	9.49E-06	1.67E-05	9.74E-06	1.73E-05	1.3574E-02
520168.03	4258352.6	67504.78011	0.39391	2.94239	0.41934	3.3937	1.35E-02	1.61E-05	1.05E-04	1.72E-05	1.17E-04	1.3774E-02
520295.51	4258282.99	67500.63187	0.27724	0.83535	0.28497	0.91454	1.35E-02	1.14E-05	2.99E-05	1.17E-05	3.14E-05	1.3602E-02
520344.48	4258273.15	67473.69235	0.24987	0.59706	0.25738	0.64699	1.35E-02	1.02E-05	2.14E-05	1.05E-05	2.22E-05	1.3577E-02
520140.25	4258941.88	67470.77132	4.31533	0.41514	3.75202	0.39269	1.35E-02	1.77E-04	1.48E-05	1.54E-04	1.35E-05	1.3871E-02
520266.11	4258292.9	67425.01761	0.297	1.04705	0.30624	1.15779	1.35E-02	1.22E-05	3.75E-05	1.25E-05	3.97E-05	1.3605E-02
520335.9	4258962.87	67419.34687	0.63678	0.19101	0.60725	0.2041	1.35E-02	2.61E-05	6.83E-06	2.49E-05	7.01E-06	1.3566E-02
520468.13	4258314.52	67358.55545	0.19948	0.29735	0.19928	0.31539	1.35E-02	8.17E-06	1.06E-05	8.16E-06	1.08E-05	1.3527E-02
520114.95	4258921.44	67273.58845	7.40312	0.46664	6.2837	0.4322	1.35E-02	3.03E-04	1.67E-05	2.57E-04	1.48E-05	1.4064E-02
520207.21	4258373.08	67266.71059	1.73008	0.29576	1.59516	0.30346	1.35E-02	7.08E-05	1.06E-05	6.53E-05	1.04E-05	1.3628E-02
520177.49	4258963.13	67225.33608	2.4331	0.34287	2.19856	0.33992	1.35E-02	9.96E-05	1.23E-05	9.00E-05	1.17E-05	1.3676E-02
520490.42	4258803.31	67186.07901	0.26861	0.16726	0.25749	0.17545	1.35E-02	1.10E-05	5.98E-06	1.05E-05	6.02E-06	1.3488E-02
520039.81	4258598.93	67166.03637	1.71612	4.18897	2.44419	3.28564	1.35E-02	7.03E-05	1.50E-04	1.00E-04	1.13E-04	1.3884E-02
520496.04	4258356.5	67078.66314	0.19318	0.256	0.19332	0.27071	1.34E-02	7.91E-06	9.16E-06	7.92E-06	9.29E-06	1.3468E-02
520500.8	4258368.55	67065.01065	0.19276	0.24873	0.19275	0.26332	1.34E-02	7.89E-06	8.90E-06	7.89E-06	9.04E-06	1.3464E-02
520412.14	4258915.77	67037.98023	0.40737	0.17215	0.38889	0.1815	1.34E-02	1.67E-05	6.16E-06	1.59E-05	6.23E-06	1.3470E-02
520334.69	4258273.11	67035.98398	0.25414	0.6372	0.26168	0.6914	1.34E-02	1.04E-05	2.28E-05	1.07E-05	2.37E-05	1.3491E-02
520393.42	4258273.3	67020.78113	0.22692	0.44246	0.23249	0.47707	1.34E-02	9.29E-06	1.58E-05	9.52E-06	1.64E-05	1.3473E-02
520096.72	4258903.92	67014.99478	12.62655	0.50175	11.00146	0.46318	1.34E-02	5.17E-04	1.79E-05	4.50E-04	1.59E-05	1.4422E-02
520461.44	4258855.34	66913.50231	0.31304	0.16616	0.29969	0.17523	1.34E-02	1.28E-05	5.94E-06	1.23E-05	6.02E-06	1.3437E-02
520375.47	4258942.8	66900.505	0.49876	0.17856	0.47557	0.18942	1.34E-02	2.04E-05	6.39E-06	1.95E-05	6.50E-06	1.3451E-02
520450.83	4258297.1	66846.34587	0.20458	0.32427	0.20553	0.34601	1.34E-02	8.38E-06	1.16E-05	8.42E-06	1.19E-05	1.3427E-02
520207.28	4258322.72	66804.2752	0.34649	1.81472	0.36645	2.04556	1.34E-02	1.42E-05	6.49E-05	1.50E-05	7.02E-05	1.3543E-02
520470.4	4258841.62	66742.30132	0.29879	0.16581	0.28629	0.17468	1.34E-02	1.22E-05	5.93E-06	1.17E-05	6.00E-06	1.3402E-02
520118.94	4258402.44	66727.24285	0.48045	7.38365	0.5096	8.91	1.34E-02	1.97E-05	2.64E-04	2.09E-05	3.06E-04	1.3974E-02
520025.63	4258751.9	66682.22047	2.54787	0.92172	3.31277	0.87782	1.34E-02	1.04E-04	3.30E-05	1.36E-04	3.01E-05	1.3657E-02
520512.12	4258461.42	66679.69661	0.19995	0.22268	0.19738	0.2358	1.34E-02	8.19E-06	7.96E-06	8.08E-06	8.10E-06	1.3386E-02
520429.31	4258898.66	66569.60073	0.37101	0.16872	0.35375	0.17799	1.33E-02	1.52E-05	6.03E-06	1.45E-05	6.11E-06	1.3373E-02
520177.85	4258342.63	66473.54191	0.37748	2.57704	0.40185	2.95076	1.33E-02	1.55E-05	9.22E-05	1.65E-05	1.01E-04	1.3538E-02
520021.57	4258717.99	66458.6131	2.17388	1.14433	2.78436	1.07234	1.33E-02	8.90E-05	4.09E-05	1.14E-04	3.68E-05	1.3590E-02
520324.9	4258273.08	66406.98762	0.25827	0.6812	0.26573	0.74031	1.33E-02	1.06E-05	2.44E-05	1.09E-05	2.54E-05	1.3370E-02
520521.1	4258716.36	66367.67141	0.22406	0.17495	0.215	0.1831	1.33E-02	9.17E-06	6.26E-06	8.80E-06	6.29E-06	1.3322E-02
520197.31	4258973.1	66357.38838	1.92534	0.30817	1.76463	0.31263	1.33E-02	7.88E-05	1.10E-05	7.23E-05	1.07E-05	1.3462E-02
520403.21	4258273.33	66357.09375	0.22214	0.41886	0.22713	0.45109	1.33E-02	9.10E-06	1.50E-05	9.30E-06	1.55E-05	1.3338E-02
520512.06	4258481.89	66312.22942	0.20233	0.21944	0.19912	0.23262	1.33E-02	8.28E-06	7.85E-06	8.15E-06	7.99E-06	1.3312E-02
520285.72	4258282.96	66293.51468	0.28109	0.90021	0.28904	0.98869	1.33E-02	1.15E-05	3.22E-05	1.18E-05	3.39E-05	1.3366E-02
520099.26	4258432.38	66246.05501	0.5517	13.86168	0.59523	15.91144	1.33E-02	2.26E-05	4.96E-04	2.44E-05	5.46E-04	1.4356E-02
520395.26	4258932.77	66213.65843	0.44808	0.17413	0.42758	0.18393	1.33E-02	1.83E-05	6.23E-06	1.75E-05	6.31E-06	1.3309E-02
520345.8	4258962.85	66176.33859	0.59891	0.18607	0.57234	0.19851	1.33E-02	2.46E-05	6.66E-06	2.34E-05	6.82E-06	1.3314E-02
520432.55	4258283.42	66176.27132	0.21055	0.35665	0.21323	0.38241	1.33E-02	8.62E-06	1.28E-05	8.73E-06	1.31E-05	1.3296E-02
520479.62	4258827.79	66156.733	0.28502	0.16541	0.27318	0.17397	1.32E-02	1.17E-05	5.92E-06	1.12E-05	5.97E-06	1.3284E-02
520365.59	4258952.82	66098.07055	0.53202	0.17999	0.50738	0.19137	1.32E-02	2.18E-05	6.44E-06	2.08E-05	6.57E-06	1.3293E-02
520036.17	4258801.44	66032.06856	3.62419	0.70783	4.79642	0.68289	1.32E-02	1.48E-04	2.53E-05	1.96E-04	2.34E-05	1.3617E-02
520459.36	4258300.75	65906.74014	0.20103	0.3112	0.20145	0.33128	1.32E-02	8.23E-06	1.11E-05	8.25E-06	1.14E-05	1.3238E-02
520106.18	4258917.82	65783.13274	9.40007	0.47465	7.97682	0.43842	1.32E-02	3.85E-04	1.70E-05	3.27E-04	1.51E-05	1.3917E-02
520236.71	4258302.81	65765.37016	0.31622	1.35357	0.32982	1.51215	1.32E-02	1.29E-05	4.84E-05	1.35E-05	5.19E-05	1.3297E-02
520053.74	4258846.21	65743.21763	6.40646	0.59484	10.72055	0.56781	1.32E-02	2.62E-04	2.13E-05

520109.12	4258412.41	64059.94829	0.49613	9.76209	0.52838	11.79485	1.28E-02	2.03E-05	3.49E-04	2.16E-05	4.05E-04	1.3625E-02
520517.67	4258748.5	64053.48207	0.23203	0.16926	0.22241	0.17664	1.28E-02	9.50E-06	6.05E-06	9.11E-06	6.06E-06	1.2858E-02
520177.5	4258973.13	64027.29189	2.43929	0.33327	2.20485	0.32946	1.28E-02	9.99E-05	1.19E-05	9.03E-05	1.13E-05	1.3036E-02
520375.49	4258952.8	63973.74825	0.5023	0.17512	0.47869	0.1839	1.28E-02	2.06E-05	6.26E-06	1.96E-05	6.38E-06	1.2864E-02
520112.94	4258930.6	63958.55402	7.79797	0.45014	6.6155	0.4167	1.28E-02	3.19E-04	1.61E-05	2.71E-04	1.43E-05	1.3429E-02
520043.52	4258832	63955.53049	4.55647	0.617	6.40691	0.59431	1.28E-02	1.87E-04	2.21E-05	2.62E-04	2.04E-05	1.3299E-02
520344.51	4258263.15	63925.68401	0.24436	0.60198	0.25154	0.65164	1.28E-02	1.00E-05	2.15E-05	1.03E-05	2.24E-05	1.2866E-02
520451.31	4258287.29	63917.58639	0.20205	0.3251	0.2035	0.34711	1.28E-02	8.27E-06	1.16E-05	8.33E-06	1.19E-05	1.2841E-02
520054.96	4258856.71	63870.77833	6.71133	0.56739	11.76173	0.54129	1.28E-02	2.75E-04	2.03E-05	4.82E-04	1.86E-05	1.3586E-02
520029.93	4258628.06	63823.44766	1.73978	2.66306	2.36914	2.26801	1.28E-02	7.12E-05	9.53E-05	9.70E-05	7.79E-05	1.3123E-02
520412.02	4258925.83	63819.55135	0.40907	0.16881	0.39028	0.17796	1.28E-02	1.67E-05	6.04E-06	1.60E-05	6.11E-06	1.2826E-02
520478.76	4258838.16	63785.0792	0.28749	0.16288	0.27547	0.17139	1.28E-02	1.18E-05	5.83E-06	1.13E-05	5.88E-06	1.2809E-02
520393.45	4258263.3	63724.40756	0.22308	0.44596	0.22897	0.48033	1.28E-02	9.13E-06	1.60E-05	9.37E-06	1.65E-05	1.2813E-02
520246.53	4258292.84	63691.28425	0.30299	1.24295	0.31515	1.38379	1.28E-02	1.24E-05	4.45E-05	1.29E-05	4.75E-05	1.2872E-02
520515.3	4258469.76	63651.13446	0.19883	0.21834	0.19596	0.23127	1.27E-02	8.14E-06	7.81E-06	8.02E-06	7.94E-06	1.2779E-02
520499.09	4258799.72	63607.67005	0.25842	0.1642	0.24769	0.172	1.27E-02	1.06E-05	5.87E-06	1.01E-05	5.90E-06	1.2771E-02
520059.52	4258530.96	63578.99187	1.09112	13.28282	1.32468	7.65591	1.27E-02	4.47E-05	4.75E-04	5.42E-05	2.63E-04	1.3569E-02
520429.03	4258908.78	63574.03288	0.37301	0.16582	0.35546	0.17482	1.27E-02	1.53E-05	5.93E-06	1.46E-05	6.00E-06	1.2773E-02
520295.54	4258272.99	63526.15713	0.26951	0.84164	0.27718	0.92064	1.27E-02	1.10E-05	3.01E-05	1.13E-05	3.16E-05	1.2806E-02
520197.49	4258322.69	63512.19159	0.34622	2.03507	0.36802	2.29825	1.27E-02	1.42E-05	7.28E-05	1.51E-05	7.89E-05	1.2900E-02
520334.72	4258263.11	63450.61533	0.24826	0.6423	0.25539	0.69631	1.27E-02	1.02E-05	2.30E-05	1.05E-05	2.39E-05	1.2774E-02
520505.02	4258360.35	63447.12707	0.18913	0.24596	0.18919	0.26001	1.27E-02	7.74E-06	8.80E-06	7.75E-06	8.93E-06	1.2739E-02
520024.85	4258774.14	63442.27128	2.62765	0.79695	3.32931	0.76613	1.27E-02	1.08E-04	2.85E-05	1.36E-04	2.63E-05	1.3004E-02
520266.14	4258282.9	63358.07748	0.28785	1.05401	0.29739	1.16551	1.27E-02	1.18E-05	3.77E-05	1.22E-05	4.00E-05	1.2790E-02
520226.92	4258302.78	63341.99738	0.31805	1.49118	0.33389	1.67045	1.27E-02	1.30E-05	5.33E-05	1.37E-05	5.73E-05	1.2822E-02
520017.96	4258709.28	63312.58018	1.94396	1.1946	2.46491	1.11272	1.27E-02	7.96E-05	4.27E-05	1.01E-04	3.82E-05	1.2941E-02
520432.58	4258273.42	63187.52179	0.20782	0.35875	0.21106	0.38468	1.27E-02	8.51E-06	1.28E-05	8.64E-06	1.32E-05	1.2697E-02
520403.24	4258263.33	63154.1056	0.2186	0.42203	0.22398	0.45408	1.26E-02	8.95E-06	1.51E-05	9.17E-06	1.56E-05	1.2696E-02
520494.57	4258335.85	63151.45531	0.19004	0.26218	0.19011	0.27642	1.26E-02	7.98E-06	9.38E-06	7.78E-06	9.49E-06	1.2681E-02
520476.42	4258308.05	63116.51471	0.19389	0.28764	0.19372	0.30462	1.26E-02	7.94E-06	1.03E-05	7.93E-06	1.05E-05	1.2677E-02
520316.13	4258982.9	63070.3292	0.72521	0.19342	0.69023	0.20733	1.26E-02	2.97E-05	6.92E-06	2.83E-05	7.12E-06	1.2703E-02
520460.29	4258291.14	63051.47066	0.19845	0.31125	0.19928	0.33156	1.26E-02	8.13E-06	1.11E-05	8.16E-06	1.14E-05	1.2666E-02
520488.07	4258824.29	63012.95449	0.27435	0.16232	0.26282	0.17052	1.26E-02	1.12E-05	5.81E-06	1.08E-05	5.85E-06	1.2653E-02
520395.27	4258942.77	63003.73247	0.44945	0.17048	0.42875	0.18017	1.26E-02	1.84E-05	6.10E-06	1.76E-05	6.19E-06	1.2666E-02
520464.77	4258863.96	62963.87777	0.30949	0.16211	0.29601	0.1709	1.26E-02	1.27E-05	5.80E-06	1.21E-05	5.87E-06	1.2646E-02
520345.82	4258972.85	62946.85057	0.60106	0.18204	0.57343	0.1943	1.26E-02	2.46E-05	6.51E-06	2.35E-05	6.67E-06	1.2667E-02
520256.75	4258993	62932.58317	1.11493	0.23211	1.04949	0.24583	1.26E-02	4.56E-05	8.30E-06	4.30E-05	8.44E-06	1.2708E-02
520455.44	4258877.83	62920.80106	0.32489	0.16242	0.31023	0.1713	1.26E-02	1.33E-05	5.81E-06	1.27E-05	5.88E-06	1.2638E-02
520365.6	4258962.82	62919.96573	0.53351	0.17627	0.50876	0.18751	1.26E-02	2.18E-05	6.30E-06	2.08E-05	6.44E-06	1.2656E-02
520027.12	4258636.77	62917.32357	1.72569	2.36234	2.3111	2.04783	1.26E-02	7.07E-05	8.45E-05	9.46E-05	7.03E-05	1.2920E-02
520517.32	4258423.32	62915.68398	0.19194	0.22428	0.19001	0.23713	1.26E-02	7.86E-06	8.02E-06	7.78E-06	8.14E-06	1.2632E-02
520148.43	4258362.53	62902.85888	0.40364	4.01685	0.42677	4.69858	1.26E-02	1.65E-05	1.44E-04	1.75E-05	1.61E-04	1.2936E-02
520088.64	4258910.58	62896.04374	14.95675	0.48363	15.80866	0.44822	1.26E-02	6.12E-04	1.73E-05	6.47E-04	1.54E-05	1.3888E-02
520246.84	4258993.02	62885.32253	1.20911	0.24104	1.13444	0.25399	1.26E-02	4.95E-05	8.62E-06	4.64E-05	8.72E-06	1.2707E-02
520058.92	4258868.33	62864.21256	7.93548	0.5435	16.4273	0.51675	1.26E-02	3.25E-04	1.94E-05	6.73E-04	1.77E-05	1.3624E-02
520266.65	4258992.98	62843.35441	1.03173	0.22373	0.97392	0.23794	1.26E-02	4.22E-05	8.00E-06	3.99E-05	8.17E-06	1.2684E-02
520018.5	4258734.71	62830.74122	2.09531	1.00158	2.65827	0.94602	1.26E-02	8.58E-05	3.58E-05	1.09E-04	3.25E-05	1.2846E-02
520324.93	4258263.08	62767.88528	0.25196	0.68658	0.25905	0.74544	1.26E-02	1.03E-05	2.46E-05	1.06E-05	2.56E-05	1.2641E-02
520236.94	4258993.03	62717.48341	1.31651	0.25056	1.23068	0.26238	1.26E-02	5.39E-05	8.96E-06	5.04E-05	9.01E-06	1.2682E-02
520158.25	4258352.56	62715.68744	0.38856	3.42407	0.41173	3.97105	1.26E-02	1.59E-05	1.22E-04	1.69E-05	1.36E-04	1.2851E-02
520138.61	4258372.5	62676.54897	0.41876	4.80034	0.44195	5.66578	1.26E-02	1.71E-05	1.72E-04	1.81E-05	1.95E-04	1.2953E-02
520167.6	4258973.15	62638.40908	2.78477	0.34527	2.49709	0.33673	1.25E-02	1.14E-04	1.23E-05	1.02E-04	1.16E-05	1.2784E-02
520039.77	4258589.23	62606.54953	1.52089	4.44824	2.12594	3.4428	1.25E-02	6.23E-05	1.59E-04	8.70E-05	1.18E-04	1.2964E-02
520276.55	4258992.97	62583.282	0.95738	0.21584	0.90589	0.2303	1.25E-02	3.92E-05	7.72E-06	3.71E-05	7.91E-06	1.2625E-02
520254.46	4258732.28	62581.08206	0.22351	0.16962	0.21423	0.17716	1.25E-02	9.15E-06	6.07E-06	8.77E-06	6.08E-06	1.2563E-02
520103.83	4258926.84	62540.81202	10.07805	0.45699	8.5717	0.42235	1.25E-02	4.13E-04	1.63E-05	3.51E-04	1.45E-05	1.3319E-02
520045	4258842.6	62494.3978	4.80901	0.58784	6.87773	0.56603	1.25E-02	1.97E-04	2.10E-05	2.82E-04	1.94E-05	1.3034E-02
520413.03	4258263.36	62429.75984	0.21411	0.39996	0.21893	0.42989	1.25E-02	8.77E-06	1.43E-05	8.96E-06	1.48E-05	1.2549E-02
520446.36	4258891.6	62416.16613	0.34069	0.16266	0.32492	0.17154	1.25E-02	1.39E-05	5.82E-06	1.33E-05	5.89E-06	1.2539E-02
520227.04	4258993.05	62408.99238	1.43969	0.26063	1.3404	0.27089	1.25E-02	5.89E-05	9.32E-06	5.49E-05	9.30E-06	1.2631E-02
520207.31	4258312.72	62380.48029	0.33261	1.82541	0.35207	2.05987	1.25E-02	1.36E-05	6.53E-05	1.44E-05	7.07E-05	1.2657E-02
520158.67	4258969.46	62344.29272	3.16653	0.3594	2.81678	0.34661	1.25E-02	1.30E-04	1.29E-05	1.15E-04	1.19E-05	1.2755E-02
520420.4	4258922.36	62342.41717	0.39149	0.1659	0.37312	0.17484	1.25E-02	1.60E-05	5.93E-06	1.53E-05	6.00E-06	1.2528E-02
520385.75	4258272.96	62338.53696	0.27294	0.90678	0.28106	0.99506	1.25E-02	1.12E-05	3.24E-05	1.15E-05	3.42E-05	1.2573E-02
520326.03	4258882.89	62281.97224	0.68119	0.18812	0.64894	0.20145	1.25E-02	2.79E-05	6.73E-06	2.66E-05	6.92E-06	1.2541E-02
520168.07	4258342.6	62219.68018	0.37377	2.96195	0.39673	3.40981	1.25E-02	1.53E-05	1.06E-04	1.62E-05	1.17E-04	1.2715E-02
520286.45	4258992.95	62162.86827	0.89062	0.20845	0.84432	0.22295	1.24E-02	3.65E-05	7.46E-06	3.46E-05	7.65E-06	1.2535E-02
520385.39	4258952.79	62133.95622	0.47581	0.17081	0.45333	0.18102	1.24E-02	1.95E-05	6.11E-06	1.86E-05	6.21E-06	1.2494E-02
520504.08	4258349.93	62078.29481	0.18785	0.24884	0.18795	0.26271	1.24E-02	7.69E-06	8.90E-06	7.70E-06	9.02E-06	1.2465E-02
520021.08	4258765.04	62059.98996	2.36812	0.83094	2.97885	0.79612	1.24E-02	9.70E-05	2.97E-05	1.22E-04	2.73E-05	1.2704E-02
520315.14	4258263.05	61985.07822	0.25556	0.73499	0.26263	0.79973	1.24E-02	1.05E-05	2.63E-05	1.08E-05	2.75E-05	1.2488E-02
520149.75	4258965.78	61950.42781	3.65174	0.37327	3.21761	0.35607	1.24E-02	1.50E-04	1.34E-05	1.32E-04	1.22E-05	1.2713E-02
520403.99	4258939.16	61939.50887	0.42848	0.16791	0.40873	0.17719	1.24E-02	1.75E-05	6.01E-06	1.67E-05	6.08E-06	1.2451E-02
520217.14	4258993.07	61915.78896	1.58163	0.27116	1.46578	0.27935	1.24E-02	6.48E-05	9.70E-06	6.00E-05	9.59E-06	1.2544E-02
520128.79	4258382.47	61893.12564	0.43384	5.86707	0.45725	7.02077	1.24E-02	1.78E-05	2.10E-04	1.87E-05	2.41E-04	1.2882E-02
520469.27	4258294.98	61872.67636	0.19482	0.29844	0.19516	0.31708	1.24E-02	7.98E-06	1.07E-05	7.99E-06	1.09E-05	1.2428E-02
520497.71	4258810.3	61848.10751	0.26144	0.16184	0.25051	0.16965	1.24E-02	1.07E-05	5.79E-06	1.03E-05	5.82E-06	1.2419E-02
520442.37	4258273.45	61791.98181	0.20314	0.34146	0.20578	0.36559	1.24E-02	8.32E-06	1.22E-05	8.43E-06	1.26E-05	1.2416E-02
520531.4	4258691.76	61710.06088	0.21201	0.17463	0.20376	0.18278	1.24E-02	8.68E-06	6.25E-06	8.34E-06	6.28E-06	1.2388E-02
520437.48	4258905.28	61687.96499	0.35732	0.16289	0.34052	0.17171	1.24E-02	1.46E-05	5.83E-06	1.39E-05	5.89E-06	1.2394E-02
520256.35	4258282.87	61637.69433	0.29062	1.1461	0.30158	1.27154	1.23E-02	1.19E-05	4.10E-05	1.23E-05	4.37E-05	1.2453E-02
520296.35	4258992.93	61590.31538	0.83039	0.20155	0.78837	0.21591	1.23E-02	3.40E-05	7.21E-06	3.23E-05	7.41E-06	1.2415E-02
520236.74	4258292.81	61514.31578	0.30499	1.36299	0.31921	1.52132	1.23E-02	1.25E-05	4.88E-05	1.31E-05	5.22E-05	1.2446E-02
520140.82	4258962.09	61507.27769	4.28663	0.38662	3.73443	0.36504	1.23E-02	1.76E-04	1.38E-05	1.53E-04	1.25E-05	1.2672E-02
520422.82	4258263.39	61498.14818	0.20958	0.37967	0.21386	0.40757	1.23E-02	8.58E-06	1.36E-05	8.76E-06	1.40E-05	1.2361E-02
520355.72	4258972.84	61491.88925	0.56649	0.17715	0.54028	0.18881	1.23E-02	2.32E-05	6.34E-06	2.21E-05	6.48E-06	1.2373E-02
520478	4258848.48	61457.09731	0.28978	0.16037	0.27754	0.1688	1.23E-02	1.19E-05	5.74E-06	1.14E-05	5.80E-06	1.2342E-02
520484.95	4258311.7	61453.09128	0.19043	0.2766	0.19008	0.29236	1.23E-02	7.80E-06	9.89E-06	7.78E-06	1.00E-05	1.2342E-02
520113.51	4258940.83	61305.11653	7.72282	0.43262	6.54205	0.40061	1.23E-02	3.16E-04	1.55E-05	2.68E-04	1.38E-05	1.2890E-02
520451.24	4258277.25	61288.09589	0.19978	0.32662	0.20175	0.34902	1.23E-02	8.18E-06	1.17E-05	8.26E-06	1.20E-05	1.2314E-02
520207.24	4258993.08	61252.26998	1.74697	0.28208	1.61067	0.28766	1.23E-02	7.15E-05	1.01E-05	6.59E-05	9.88E-06	1.2424E-02
520094.73	4258923.08	61228.16265	13.53111	0.46187	11.91497	0.42737	1.23E-02	5.54E-04	1.65E-05	4.88E-04	1.47E-05	1.3335E-02
520335.94	4258982.87	61161.39489	0.63996	0.18295	0.60996	0.19566	1.22E-02	2.62E-05	6.54E-06	2.50E-05	6.72E-06	1.2313E-02
520373.91	4258253.24	61117.06306	0.22737	0.50451	0.23409	0.54361	1.22E-02	9.31E-06	1.80E-05	9.58E-06	1.87E-05	1.2295E-02
520375.51	4258962.8	61109.80503	0.50419	0.1716	0.48043	0.18228	1.22E-02	2.06E-05	6.14E-06	1.97E-05	6.26E-06	1.2291E-02
520364.12	4258253.21	61103.08537	0.23132	0.53573	0.23818	0.5778	1.22E-02	9.47E-06	1.92E-05	9.75E-06	1.98E-05	1.2291E-02
520017.12	4258683.15	61048.83775	1.73178	1.44644	2.20619	1.32151	1.22E-02	7.09E-05	5.17E-05	9.03E-05	4.54E-05	1.2484E-02
520305.36	4258263.02	61028.76903	0.25894	0.78832	0.26619	0.85974	1.22E-02	1.06E-05	2.82E-05	1.09E-05	2.95E-05	1.2301E-02
520275.96	4258272.93	60999.14107	0.27609	0.97952	0.28501	1.07849	1.22E-02	1.13E-05	3.50E-05	1.17E-05	3.70E-05	1.2311E-02
520383.7	4258253.27	60995.20939	0.22335	0.47577	0.22978	0.51227	1.22E-02	9.14E-06	1.70E-05	9.41E-06	1.76E-05	1.2268E-02
520060.17	4258878.84	60954.5146	8.40351	0.51965	15.98008	0.4938	1.22E-02	3.44E-04	1.86E-05	6.54E-04	1.70E-05	1.3241E-02
520046.31	4258853.13	60931.93116	5.04025	0.56088	7.35846	0.53984	1.22E-02	2.06E-04	2.01E-05	3.01E-04	1.85E-05	1.2749E-02
520354.33	4258253.18	60930.94621	0.23516	0.56971	0.24206	0.61516	1.22E-02	9.63E-06	2.04E-05	9.91E-06	2.11E-05	1.2263E-02
520487.12	4258834.69	60908.88332	0.27681	0.15998	0.26518	0.16815	1.22E-02	1.13E-05	5.72E-06	1.09E-05	5.77E-06	1.2232E-02
520306.25	4258992.92	60881.19705	0.77588	0.19513	0.7374	0.20919	1.22E-02	3.18E-05	6.98E-06	3.02E-05	7.18E-06	1.2268E-02
520029.16	4258808.65	60878.26095	3.03102	0.66469	3.88562	0.64347	1.22E-02	1.24E-04	2.38E-05	1.59E-04	2.21E-05	1.2521E-02
520217.13	4258302.75	60843.9057	0.31912	1.65061	0.33688	1.85493	1.22E-02	1.31E-05	5.90E-05	1.38E-05	6.37E-05	1.2334E-02
520428.78	4258918.89	60748.95181	0.37484	0.16292	0.35704	0.17167	1.22E-02	1.53E-05	5.83E-06	1.46E-05	5.89E-06	1.2207E-02
520520.79	4258432.44	60712.0833	0.19113	0.21997	0.189	0.23243	1.22E-02	7.83E-06	7.87E-06	7.74E-06	7.98E-06	1.2190E-02
520412.71	4258935.55	60706.98703	0.4089	0.16527	0.38994	0.17421	1.22E-02	1.67E-05	5.91E-06	1.60E-05	5.98E-06	1.2202E-02
520393.48	4258253.3	60678.50541	0.21923	0.44944	0.22531	0.48351	1.22E-02	8.98E-06	1.61E-05	9.23E-06	1.66E-05	1.2203E-02
520344.54	4258253.15	60573.0528	0.23885	0.60682	0.24572	0.65605	1.21E-02	9.78E-06	2.17E-05	1.01E-05	2.25E-05	1.2195E-02
520460.11	4258281.05	60518.04289	0.19635	0.31289	0.19769	0.33361	1.21E-02	8.04E-06	1.12E-05	8.09E-06	1.15E-05	1.2158E-02
520503.29	4258339.58	60485.83599	0.18641	0.25185	0.18649	0.26546	1.21E-02	7.63E-06	9.01E-06	7.64E-06	9.11E-06	1.2147E-02
520464.05	4258874.27	60485.74454	0.31183	0.1595	0.29791	0.16813	1.21E-02	1.28E-05	5.71E-06	1.22E-05	5.77E-06	1.2150E-02
520531.26	4258716.06	60451.79148	0.21544	0.16958	0.20664	0.17736	1.21E-02	8.82E-06	6.07E-06	8.46E-06	6.09E-06	1.2136E-02
520014.94	4258726.12	60428.39726	1.89633	1.04302	2.37919	0.98022	1.21E-02	7.76E-05	3.73E-05	9.74E-05	3.37E-05	1.2348E-02
520478.24	4258298.82	60416.64116	0.19118	0.28648	0.19117	0.30354	1.21E-02	7.83E-06	1.02E-05	7.83E-06	1.04E-05	1.2136E-02
520197.34	4258993.1	60401.13693	1.94135	0.2932	1.77954	0.29563	1.21E-02	7.95E-05	1.05E-05	7.29E-05	1.01E-05	1.2269E-02
520118.97	4258392.44	60398.83816	0.44817	7.4066	0.47298	8.95933	1.21E-02	1.83E-05	2.65E-04	1.94E-05	3.08E-04	1.2706E-02
520432.61	4258263.42	60383.15569	0.20506	0.36096	0.2088	0.38694	1.21E-02	8.40E-06	1.29E-05	8.55E-06	1.33E-05	1.2136E-02
520034.67	4258828.34	60372.2201	3.55253	0.6103	4.66205	0.59124	1.21E-02	1.45E-04	2.18E-05	1.91E-04	2.03E-05	1.2469E-02
520187.71	4258322.66	60336.87622	0.34504	2.29579	0.36695	2.60542	1.21E-02	1.41E-05	8.21E-05	1.50E-05	8.94E-05	1.2284E-02
520473.46	4258860.36	60330.64339	0.29718	0.15915	0.28436	0.16763	1.21E-02	1.22E-05	5.69E-06	1.16E-05	5.75E-06	1.2117E-02
520029.89	4258618.37	60326.79516	1.58299	2.87004	2.1453	2.41176	1.21E-02	6.48E-05	1.03E-04	8.78E-05	8.28E-05	1.2419E-02
520454.88	4258888.07	60310.89067	0.32694	0.15978	0.31192	0.16844	1.21E-02	1.34E-05	5.72E-06	1.28E-05	5.78E-06	1.2116E-02
520316.15	4258992.9	60256.17561	0.72732	0.18944	0.69196	0.20306	1.21E-02	2.98E-05	6.78E-06	2.83E-05	6.97E-06	1.2139E-02
520025.45	4258799.68	60235.81354	2.74633	0.68951	3.47487	0.66685	1.21E-02	1.12E-04	2.47E-05	1.42E-04	2.29E-05	1.2365E-02
520511.37	4258787.48	60224.54275	0.24389	0.162	0.23379	0.16932	1.21E-02	9.99E-06	5.79E-06	9.57E-06	5.81E-06	1.2092E-02
520017.31	4258755.94	60223.79578	2.10953	0.86781	2.66719	0.82666	1.21E-02	8.64E-05	3.10E-05	1.09E-04	2.84E-05	1.2316E-02
520403.27	4258253.33	60215.93819	0.21506	0.42514	0.22069	0.457	1.21E-02	8.81E-06	1.52E-05	9.04E-06	1.57E-05	1.2108E-02
520515	4258778.83	60122.96496	0.23907	0.1627	0.22919	0.1699	1.20E-02	9.79E-06	5.82E-06	9.38E-06	5.83E-06	1.2071E-02
520334.75	4258253.12	60074.56342	0.24242	0.64727	0.24921	0.70094	1.20E-02	9.93E-06	2.32E-05	1.02E-05	2.41E-05	1.2098E-02
520519.65	4258396.65	60054.19496	0.18697	0.22595	0.18567	0.23905	1.20E-02	7.66E-06	8.08E-06	7.60E-06	8.21E-06	1.2058E-02
520049.87	4258864.6	60052.19627	5.67077	0.53752	8.83531	0.51591	1.20E-02	2.32E-04	1.92E-05	3.62E-04	1.77E-05	1.2657E-02
520256.76	4259003	60044.81827	1.11763	0.22724	1.05195	0.24022	1.20E-02	4.58E-05	8.13E-06	4.31E-05	8.25E-06	1.2130E-02
520104.49	4258937.11	60020.77732	9.91854	0.43878	8.4191	0.40577	1.20E-02	4.06E-04	1.57E-05	3.45E-04	1.39E-05	1.2800E-02
520496.52	4258820.8	60012.47659	0.26418	0.15951	0.25311	0.16733	1.20E-02	1.08E-05	5.71E-06	1.04E-05	5.74E-06	1.2051E-02
520395.29	4258952.77	60004.38903	0.45071	0.16684	0.42972	0.17646	1.20E-02	1.85E-05	5.97E-06	1.76E-05	6.06E-06	1.2065E-02
520266.66	4259002.98	59973.97724	1.0341	0.21914	0.9761	0.23266	1.20E-02	4.23E-05	7.84E-06	4.00E-05	7.99E-06	1.2109E-02
520246.86	4259003.02	59968.58496	1.2118	0.23585	1.13689	0.24801	1.20E-02	4.96E-05	8.44E-06	4.65E-05	8.51E-06	1.2123E-02
520295.57	4258262.99	59957.10428	0.26216	0.84725	0.26981	0.92655	1.20E-02	1.07E-05	3.03E-05	1.10E-05	3.18E-05	1.2091E-02
520345.84	4258982.85	59921.64882	0.60228	0.17796	0.57395	0.19007	1.20E-02	2.47E-05	6.37E-06	2.35E-05	6.53E-06	1.2061E-02
520365.62	4258972.82	59911.84877	0.53468	0.17245	0.5096	0.18356	1.20E-02	2.19E-05	6.17E-06	2.08E-05	6.30E-06	1.2053E-02
520518.62	4258770.18	59907.19542	0.23437	0.1633	0.22467	0.1704	1.20E-02	9.60E-06	5.84E-06	9.20E-06	5.85E-06	1.2028E-02
520099.3	4258422.38	59821.70777	0.50937	13.90391	0.54689	15.93435	1.20E-02	2.09E-05	4.97E-04	2.24E-05	5.47E-04	1.3068E-02
520518.51	4258386.15	59813.7668	0.18607	0.22853	0.18517	0.24182	1.20E-02	7.62E-06	8.17E-06	7.58E-06	8.30E-06	1.2010E-02
520017.12	4258673.87	59807.47258	1.66012	1.55246	2.11824	1.40835	1.20E-02	6.80E-05	5.55E-05	8.67E-05

520315.18	4258253.05	58622.96968	0.24907	0.74003	0.25595	0.80474	1.17E-02	1.02E-05	2.65E-05	1.05E-05	2.76E-05	1.1815E-02
520355.74	4258982.84	58565.30284	0.56766	0.1732	0.54075	0.18473	1.17E-02	2.32E-05	6.20E-06	2.21E-05	6.34E-06	1.1786E-02
520049.6	4258550.4	58594.54961	1.18236	7.54373	1.50489	5.2306	1.17E-02	4.84E-05	2.70E-04	6.16E-05	1.80E-04	1.2278E-02
520529.48	4258744.23	58454.55511	0.22091	0.16427	0.21159	0.17135	1.17E-02	9.04E-06	5.88E-06	8.66E-06	5.88E-06	1.1736E-02
520051.23	4258875.15	58422.17105	5.97633	0.51423	9.63062	0.49323	1.17E-02	2.45E-04	1.84E-05	3.94E-04	1.69E-05	1.2374E-02
520524.27	4258441.57	58353.97248	0.19025	0.21565	0.18792	0.22779	1.17E-02	7.79E-06	7.71E-06	7.69E-06	7.82E-06	1.1717E-02
520013.53	4258746.84	58340.73755	1.91565	0.90432	2.39682	0.85773	1.17E-02	7.84E-05	3.23E-05	9.81E-05	2.94E-05	1.1922E-02
520018.01	4258781.76	58318.50919	2.26729	0.74366	2.81123	0.71613	1.17E-02	9.28E-05	2.66E-05	1.15E-04	2.46E-05	1.1938E-02
520335.95	4258992.87	58285.84273	0.64102	0.17901	0.61061	0.19153	1.17E-02	2.62E-05	6.40E-06	2.50E-05	6.58E-06	1.1737E-02
520477.85	4258288.64	58255.52816	0.1894	0.28812	0.18973	0.30565	1.17E-02	7.75E-06	1.03E-05	7.77E-06	1.05E-05	1.1703E-02
520207.26	4259003.08	58234.73666	1.74543	0.2749	1.60936	0.27965	1.17E-02	7.15E-05	9.83E-06	6.59E-05	9.60E-06	1.1819E-02
520375.52	4258972.8	58227.78853	0.50531	0.16798	0.48132	0.17855	1.17E-02	2.07E-05	6.01E-06	1.97E-05	6.13E-06	1.1713E-02
520207.35	4258302.72	58223.24539	0.31916	1.837	0.33817	2.07121	1.17E-02	1.31E-05	6.57E-05	1.38E-05	7.11E-05	1.1824E-02
520017.12	4258664.6	58187.86172	1.58231	1.66595	2.02276	1.49974	1.17E-02	6.48E-05	5.96E-05	8.28E-05	5.15E-05	1.1912E-02
520306.27	4259002.92	58186.01607	0.77778	0.19119	0.73885	0.20487	1.17E-02	3.18E-05	6.84E-06	3.03E-05	7.03E-06	1.1729E-02
520524.45	4258416.19	58167.17724	0.18701	0.21901	0.18509	0.2314	1.16E-02	7.66E-06	7.83E-06	7.58E-06	7.94E-06	1.1680E-02
520373.94	4258243.24	58146.60235	0.22291	0.5085	0.22949	0.54719	1.16E-02	9.13E-06	1.82E-05	9.40E-06	1.88E-05	1.1700E-02
520459.95	4258270.97	58127.85537	0.19423	0.31454	0.1961	0.33559	1.16E-02	7.95E-06	1.13E-05	8.03E-06	1.15E-05	1.1680E-02
520463.4	4258884.54	58118.53856	0.31393	0.15692	0.29963	0.16536	1.16E-02	1.29E-05	5.61E-06	1.23E-05	5.68E-06	1.1675E-02
520472.65	4258870.71	58077.79841	0.29954	0.15664	0.2863	0.16501	1.16E-02	1.23E-05	5.60E-06	1.17E-05	5.66E-06	1.1666E-02
520383.73	4258243.27	58053.81823	0.21916	0.47958	0.22559	0.51561	1.16E-02	8.97E-06	1.72E-05	9.24E-06	1.77E-05	1.1679E-02
520364.15	4258243.21	58044.0473	0.22651	0.54002	0.23316	0.58158	1.16E-02	9.27E-06	1.93E-05	9.55E-06	2.00E-05	1.1682E-02
520109.15	4258402.41	58017.62765	0.46145	9.8017	0.48933	11.79989	1.16E-02	1.89E-05	3.51E-04	2.00E-05	4.05E-04	1.2413E-02
520037.65	4258849.56	57968.82987	3.92074	0.55472	5.23294	0.5376	1.16E-02	1.61E-04	1.98E-05	2.14E-04	1.85E-05	1.2022E-02
520412.57	4258945.61	57952.45915	0.41032	0.16208	0.39138	0.17087	1.16E-02	1.68E-05	5.80E-06	1.60E-05	5.87E-06	1.1650E-02
520039.73	4258579.53	57942.50988	1.35497	4.68102	1.84768	3.58376	1.16E-02	5.55E-05	1.67E-04	7.57E-05	1.23E-04	1.2025E-02
520158.28	4258342.56	57844.71869	0.36811	3.44421	0.3884	3.98681	1.16E-02	1.51E-05	1.23E-04	1.59E-05	1.37E-04	1.1875E-02
520354.36	4258243.18	57834.69559	0.23004	0.57416	0.23665	0.61915	1.16E-02	9.42E-06	2.05E-05	9.69E-06	2.13E-05	1.1643E-02
520256.38	4258272.87	57834.48873	0.28115	1.15405	0.29281	1.2786	1.16E-02	1.15E-05	4.13E-05	1.20E-05	4.39E-05	1.1691E-02
520148.46	4258352.53	57830.77037	0.3813	4.03717	0.40117	4.71787	1.16E-02	1.56E-05	1.44E-04	1.64E-05	1.62E-04	1.1920E-02
520393.52	4258243.3	57821.53805	0.21535	0.4529	0.22152	0.48659	1.16E-02	8.82E-06	1.62E-05	9.07E-06	1.67E-05	1.1630E-02
520454.38	4258898.28	57782.7481	0.32883	0.15722	0.31353	0.16566	1.16E-02	1.35E-05	5.62E-06	1.28E-05	5.69E-06	1.1609E-02
520432.64	4258253.42	57775.27534	0.20227	0.36318	0.20643	0.38916	1.16E-02	8.28E-06	1.30E-05	8.45E-06	1.34E-05	1.1613E-02
520430.14	4258928.33	57761.76049	0.37346	0.15951	0.35557	0.16799	1.16E-02	1.53E-05	5.71E-06	1.46E-05	5.77E-06	1.1609E-02
520482.16	4258856.76	57752.49356	0.28556	0.15627	0.27335	0.16444	1.16E-02	1.17E-05	5.59E-06	1.12E-05	5.65E-06	1.1600E-02
520538.05	4258699.84	57737.18318	0.20786	0.1694	0.19959	0.17721	1.16E-02	8.51E-06	6.06E-06	8.17E-06	6.08E-06	1.1591E-02
520105.1	4258947.35	57715.93437	9.84747	0.42215	8.31439	0.3905	1.16E-02	4.03E-04	1.51E-05	3.40E-04	1.34E-05	1.2331E-02
520011.37	4258717.52	57705.59409	1.71294	1.08346	2.1246	1.01345	1.16E-02	7.01E-05	3.88E-05	8.70E-05	3.48E-05	1.1787E-02
520305.39	4258253.02	57683.13089	0.25213	0.7935	0.25934	0.86502	1.15E-02	1.03E-05	2.84E-05	1.06E-05	2.97E-05	1.1631E-02
520533.11	4258735.58	57668.50777	0.21663	0.16451	0.20754	0.17168	1.15E-02	8.87E-06	5.88E-06	8.50E-06	5.89E-06	1.1578E-02
520236.77	4258282.81	57637.57982	0.29425	1.37211	0.30898	1.52974	1.15E-02	1.20E-05	4.91E-05	1.27E-05	5.25E-05	1.1669E-02
520086.47	4258929.67	57523.21176	15.66034	0.4448	17.7428	0.41371	1.15E-02	6.41E-04	1.59E-05	7.26E-04	1.42E-05	1.2918E-02
520275.99	4258262.93	57490.54318	0.26797	0.98565	0.27727	1.0849	1.15E-02	1.10E-05	3.53E-05	1.14E-05	3.72E-05	1.1608E-02
520344.57	4258243.15	57482.89694	0.23347	0.6113	0.23998	0.66027	1.15E-02	9.56E-06	2.19E-05	9.83E-06	2.27E-05	1.1576E-02
520197.36	4259003.1	57467.10817	1.93841	0.28549	1.77764	0.28716	1.15E-02	7.94E-05	1.02E-05	7.28E-05	9.86E-06	1.1681E-02
520138.64	4258362.5	57445.63148	0.39439	4.82252	0.41414	5.68892	1.15E-02	1.61E-05	1.72E-04	1.70E-05	1.95E-04	1.1905E-02
520316.17	4259002.9	57443.95927	0.72834	0.1854	0.69238	0.19874	1.15E-02	2.98E-05	6.63E-06	2.83E-05	6.82E-06	1.1576E-02
520403.3	4258243.33	57437.01179	0.21146	0.42834	0.21728	0.45989	1.15E-02	8.66E-06	1.53E-05	8.90E-06	1.58E-05	1.1551E-02
520502	4258319	57288.18359	0.18347	0.25643	0.18321	0.27004	1.15E-02	7.51E-06	9.17E-06	7.50E-06	9.27E-06	1.1506E-02
520256.78	4259013	57287.34267	1.11932	0.22251	1.05347	0.23479	1.15E-02	4.58E-05	7.96E-06	4.31E-05	8.06E-06	1.1578E-02
520246.88	4259013.02	57251.41552	1.2139	0.23087	1.1389	0.24227	1.15E-02	4.97E-05	8.26E-06	4.66E-05	8.32E-06	1.1578E-02
520468.73	4258274.72	57240.25749	0.19091	0.30174	0.19222	0.3212	1.15E-02	7.82E-06	1.08E-05	7.87E-06	1.10E-05	1.1501E-02
520395.31	4258962.77	57218.03947	0.45184	0.16331	0.43062	0.17286	1.15E-02	1.85E-05	5.84E-06	1.76E-05	5.93E-06	1.1507E-02
520040.82	4258860.86	57215.39045	4.30631	0.53134	5.92596	0.51411	1.15E-02	1.76E-04	1.90E-05	2.43E-04	1.76E-05	1.1914E-02
520266.68	4259012.98	57189.51256	1.05049	0.21458	0.97714	0.22746	1.14E-02	4.24E-05	7.68E-06	4.00E-05	7.81E-06	1.1551E-02
520062.34	4258899.72	57151.61917	9.15261	0.47684	16.05601	0.45271	1.14E-02	3.75E-04	1.71E-05	6.57E-04	1.55E-05	1.2510E-02
520345.85	4258992.85	57144.16506	0.60323	0.1742	0.57471	0.18614	1.14E-02	2.47E-05	6.23E-06	2.35E-05	6.39E-06	1.1505E-02
520504.97	4258817.3	57138.00906	0.25453	0.15681	0.24391	0.16427	1.14E-02	1.04E-05	5.61E-06	9.99E-06	5.64E-06	1.1474E-02
520445.55	4258911.95	57125.97621	0.34427	0.15732	0.32794	0.16571	1.14E-02	1.41E-05	5.63E-06	1.34E-05	5.69E-06	1.1479E-02
520365.64	4258982.82	57116.00614	0.53571	0.16875	0.51027	0.17972	1.14E-02	2.19E-05	6.04E-06	2.09E-05	6.17E-06	1.1493E-02
520014.29	4258772.79	57027.0168	2.06299	0.77295	2.5388	0.74194	1.14E-02	8.45E-05	2.76E-05	1.04E-04	2.55E-05	1.1662E-02
520236.98	4259013.03	57024.14394	1.32098	0.23962	1.23473	0.24981	1.14E-02	5.41E-05	8.57E-06	5.06E-05	8.58E-06	1.1542E-02
520334.78	4258243.12	56978.27025	0.23675	0.65181	0.24321	0.70536	1.14E-02	9.69E-06	2.33E-05	9.96E-06	2.42E-05	1.1478E-02
520496.2	4258306.51	56969.14968	0.18411	0.26413	0.18367	0.27868	1.14E-02	7.54E-06	9.45E-06	7.52E-06	9.57E-06	1.1443E-02
520276.58	4259012.97	56958.11556	0.96075	0.20708	0.90851	0.22033	1.14E-02	3.93E-05	7.41E-06	3.72E-05	7.56E-06	1.1498E-02
520486.72	4258292.44	56928.73071	0.18603	0.27648	0.18589	0.29273	1.14E-02	7.62E-06	9.89E-06	7.61E-06	1.00E-05	1.1436E-02
520217.17	4258292.75	56900.82495	0.30684	1.66126	0.32453	1.86482	1.14E-02	1.26E-05	5.94E-05	1.33E-05	6.40E-05	1.1544E-02
520413.09	4258243.36	56880.08465	0.20749	0.40571	0.21292	0.43524	1.14E-02	8.50E-06	1.45E-05	8.72E-06	1.49E-05	1.1438E-02
520052.46	4258885.65	56759.42128	6.26509	0.4925	10.47565	0.4721	1.14E-02	2.57E-04	1.76E-05	4.29E-04	1.62E-05	1.2086E-02
520227.08	4259013.05	56752.64962	1.44424	0.24898	1.34468	0.25752	1.14E-02	5.91E-05	8.91E-06	5.51E-05	8.84E-06	1.1497E-02
520177.92	4258322.63	56740.21173	0.34179	2.61419	0.36282	2.97154	1.14E-02	1.40E-05	9.35E-05	1.49E-05	1.02E-04	1.1587E-02
520536.73	4258726.93	56722.75178	0.21249	0.1645	0.20361	0.17181	1.14E-02	8.70E-06	5.88E-06	8.34E-06	5.90E-06	1.1388E-02
520421.21	4258942.04	56721.43005	0.39198	0.15964	0.374	0.16811	1.14E-02	1.60E-05	5.71E-06	1.53E-05	5.77E-06	1.1402E-02
520029.85	4258608.67	56667.42939	1.43258	3.05372	1.9179	2.54288	1.13E-02	5.87E-05	1.09E-04	7.85E-05	8.73E-05	1.1682E-02
520295.6	4258252.99	56659.44609	0.25506	0.85251	0.26283	0.9321	1.13E-02	1.04E-05	3.05E-05	1.08E-05	3.20E-05	1.1431E-02
520442.43	4258253.45	56635.37232	0.19799	0.34559	0.20163	0.36984	1.13E-02	8.11E-06	1.24E-05	8.26E-06	1.27E-05	1.1383E-02
520286.48	4259012.95	56603.10453	0.89375	0.20006	0.84663	0.21348	1.13E-02	3.66E-05	7.16E-06	3.47E-05	7.33E-06	1.1421E-02
520525.39	4258470.4	56579.49844	0.19269	0.21012	0.18965	0.2223	1.13E-02	7.89E-06	7.52E-06	7.77E-06	7.63E-06	1.1362E-02
520187.46	4259003.12	56578.65129	2.1685	0.2961	1.9769	0.29424	1.13E-02	8.88E-05	1.06E-05	8.09E-05	1.01E-05	1.1521E-02
520326.07	4259002.89	56574.51594	0.68321	0.18014	0.64997	0.19301	1.13E-02	2.80E-05	6.44E-06	2.66E-05	6.63E-06	1.1397E-02
520128.82	4258372.47	56555.99102	0.40709	5.90104	0.42745	7.00157	1.13E-02	1.67E-05	2.11E-04	1.75E-05	2.40E-04	1.1812E-02
520096.17	4258943.67	56508.48178	12.94703	0.42555	11.28113	0.39433	1.13E-02	5.30E-04	1.52E-05	4.62E-04	1.35E-05	1.2337E-02
520385.42	4258972.79	56463.61346	0.47809	0.16383	0.45538	0.17385	1.13E-02	1.96E-05	5.86E-06	1.86E-05	5.97E-06	1.1338E-02
520451.12	4258257.17	56355.49635	0.19509	0.33033	0.19811	0.3531	1.13E-02	7.99E-06	1.18E-05	8.11E-06	1.21E-05	1.1326E-02
520403.88	4258959.22	56334.2741	0.43119	0.16104	0.41093	0.17015	1.13E-02	1.77E-05	5.76E-06	1.68E-05	5.84E-06	1.1328E-02
520325	4258243.08	56327.48117	0.23987	0.69606	0.24638	0.7549	1.13E-02	9.82E-06	2.49E-05	1.01E-05	2.59E-05	1.1351E-02
520022.15	4258815.84	56318.6066	2.58888	0.62587	3.23065	0.60742	1.13E-02	1.06E-04	2.24E-05	1.32E-04	2.09E-05	1.1560E-02
520494.57	4258841.62	56295.14169	0.26894	0.15493	0.25767	0.16271	1.13E-02	1.10E-05	5.54E-06	1.06E-05	5.59E-06	1.1307E-02
520114.51	4258961.23	56289.13152	7.53376	0.40029	6.39801	0.37107	1.13E-02	3.08E-04	1.43E-05	2.62E-04	1.27E-05	1.1870E-02
520527.85	4258425.11	56268.26537	0.18626	0.21487	0.18411	0.22688	1.13E-02	7.63E-06	7.69E-06	7.54E-06	7.79E-06	1.1296E-02
520217.18	4259013.07	56244.0665	1.58544	0.25856	1.46932	0.26502	1.13E-02	6.49E-05	9.25E-06	6.02E-05	9.10E-06	1.1407E-02
520017.12	4258655.32	56220.07633	1.49953	1.78457	1.91759	1.59487	1.13E-02	6.14E-05	6.38E-05	7.85E-05	5.48E-05	1.1517E-02
520187.74	4258312.66	56218.8975	0.32981	2.30899	0.35	2.61994	1.13E-02	1.35E-05	8.26E-05	1.43E-05	8.99E-05	1.1459E-02
520541.44	4258691.73	56204.97161	0.20425	0.16927	0.1962	0.17699	1.13E-02	8.36E-06	6.05E-06	8.03E-06	6.08E-06	1.1284E-02
520009.76	4258737.74	56175.10011	1.73775	0.94156	2.1517	0.88881	1.12E-02	7.12E-05	3.37E-05	8.81E-05	3.05E-05	1.1473E-02
520422.88	4258243.39	56172.08589	0.20348	0.38482	0.20847	0.41246	1.12E-02	8.33E-06	1.38E-05	8.54E-06	1.42E-05	1.1294E-02
520477.51	4258278.48	56169.30548	0.18759	0.2897	0.18836	0.30766	1.12E-02	7.68E-06	1.04E-05	7.71E-06	1.06E-05	1.1285E-02
520140.2	4258981.82	56165.98561	4.34414	0.36245	3.79007	0.34134	1.12E-02	1.78E-04	1.30E-05	1.55E-04	1.17E-05	1.1606E-02
520296.38	4259012.93	56125.70219	0.83337	0.19342	0.79036	0.20686	1.12E-02	3.41E-05	6.92E-06	3.24E-05	7.10E-06	1.1320E-02
520246.59	4258272.84	56061.10856	0.28294	1.25953	0.29629	1.39954	1.12E-02	1.16E-05	4.51E-05	1.21E-05	4.80E-05	1.1344E-02
520266.2	4258262.9	56042.30271	0.27034	1.06788	0.28096	1.17907	1.12E-02	1.11E-05	3.82E-05	1.15E-05	4.05E-05	1.1324E-02
520438.86	4258924.73	56006.34258	0.35714	0.1567	0.34002	0.16499	1.12E-02	1.46E-05	5.60E-06	1.39E-05	5.66E-06	1.1256E-02
520027.5	4258835.38	55982.13246	2.99278	0.57601	3.78373	0.56023	1.12E-02	1.23E-04	2.06E-05	1.55E-04	1.92E-05	1.1528E-02
520471.93	4258881.01	55924.82844	0.30168	0.15418	0.28811	0.16239	1.12E-02	1.24E-05	5.51E-06	1.18E-05	5.58E-06	1.1235E-02
520010.73	4258891.86	55892.38768	1.54426	1.2899	1.92483	1.18653	1.12E-02	6.32E-05	4.61E-05	7.88E-05	4.07E-05	1.1422E-02
520522.98	4258368.03	55888.84787	0.18117	0.22714	0.18075	0.24003	1.12E-02	7.42E-06	8.12E-06	7.40E-06	8.24E-06	1.1224E-02
520355.75	4258992.84	55884.57771	0.56853	0.1696	0.54154	0.18097	1.12E-02	2.33E-05	6.07E-06	2.22E-05	6.21E-06	1.1249E-02
520459.82	4258260.89	55857.72888	0.19207	0.31623	0.19446	0.33753	1.12E-02	7.86E-06	1.13E-05	7.96E-06	1.16E-05	1.1225E-02
520042.28	4258871.46	55845.68983	4.50045	0.50857	6.33086	0.49178	1.12E-02	1.85E-04	1.82E-05	2.59E-04	1.69E-05	1.1663E-02
520462.83	4258894.79	55775.2243	0.31583	0.15447	0.30126	0.16271	1.12E-02	1.29E-05	5.53E-06	1.23E-05	5.59E-06	1.1206E-02
520518.38	4258794.68	55761.86858	0.23802	0.15701	0.22817	0.16401	1.12E-02	9.75E-06	5.62E-06	9.34E-06	5.63E-06	1.1197E-02
520481.26	4258867.14	55716.15816	0.28792	0.15387	0.27535	0.16195	1.12E-02	1.18E-05	5.50E-06	1.13E-05	5.56E-06	1.1192E-02
520521.96	4258786.15	55683.61827	0.23349	0.15761	0.22381	0.16451	1.12E-02	9.56E-06	5.64E-06	9.16E-06	5.65E-06	1.1181E-02
520207.27	4259013.08	55651.95105	1.75042	0.26854	1.61422	0.27242	1.11E-02	7.17E-05	9.61E-06	6.61E-05	9.35E-06	1.1302E-02
520018.48	4258807	55645.58616	2.35913	0.64839	2.92373	0.62813	1.11E-02	9.66E-05	2.32E-05	1.20E-04	2.16E-05	1.1405E-02
520526.99	4258389.78	55638.43616	0.18219	0.22021	0.18091	0.23285	1.11E-02	7.46E-06	7.88E-06	7.41E-06	7.99E-06	1.1173E-02
520540.35	4258718.28	55618.53092	0.20849	0.16438	0.19984	0.17181	1.11E-02	8.54E-06	5.88E-06	8.18E-06	5.90E-06	1.1167E-02
520335.97	4259002.87	55598.81809	0.64192	0.17515	0.61089	0.1875	1.11E-02	2.63E-05	6.26E-06	2.50E-05	6.44E-06	1.1198E-02
520177.55	4259003.13	55588.47438	2.44821	0.30651	2.21714	0.30078	1.11E-02	1.00E-04	1.10E-05	9.08E-05	1.03E-05	1.1345E-02
520375.54	4258982.8	55565.28695	0.50624	0.16449	0.48213	0.17492	1.11E-02	2.07E-05	5.88E-06	1.97E-05	6.01E-06	1.1180E-02
520315.21	4258243.05	55535.25621	0.2428	0.74472	0.24959	0.80954	1.11E-02	9.94E-06	2.66E-05	1.02E-05	2.78E-05	1.1194E-02
520226.98	4258282.78	55518.47751	0.29511	1.51092	0.31148	1.68898	1.11E-02	1.21E-05	5.40E-05	1.28E-05	5.80E-05	1.1255E-02
520525.53	4258777.61	55515.6609	0.22904	0.15822	0.21954	0.16501	1.11E-02	9.38E-06	5.66E-06	8.99E-06	5.66E-06	1.1147E-02
520303.84	4258827.77	55510.17626	0.25702	0.15461	0.24633	0.16206	1.11E-02	1.05E-05	5.53E-06	1.01E-05	5.56E-06	1.1148E-02
520285.81	4258252.96	55497.129	0.25772	0.91819	0.26636	1.0069	1.11E-02	1.06E-05	3.28E-05	1.09E-05	3.46E-05	1.1203E-02
520306.28	4259012.92	55495.69075	0.77868	0.18721	0.73908	0.20051	1.11E-02	3.19E-05	6.70E-06	3.03E-05	6.88E-06	1.1189E-02
520010.58	4258763.83	55469.08837	1.87321	0.80399	2.29964	0.76835	1.11E-02	7.67E-05	2.88E-05	9.42E-05	2.64E-05	1.1334E-02
520525.94	4258379.31	55462.46055	0.1813	0.22262	0.18041	0.23539	1.11E-02	7.42E-06	7.96E-06	7.38E-06	8.08E-06	1.1138E-02
520197.56	4258302.69	55432.80448	0.31796	2.05783	0.33726	2.32715	1.11E-02	1.30E-05	7.36E-05	1.38E-05	7.99E-05	1.1282E-02
520087.24	4258939.98	55367.98779	15.32321	0.42726	17.03636	0.39759	1.11E-02	6.27E-04	1.53E-05	6.98E-04	1.36E-05	1.2442E-02
520247.45	4258955.67	55344.17464	0.41174	0.15883	0.39257	0.16753	1.11E-02	1.69E-05	5.68E-06	1.61E-05	5.75E-06	1.1128E-02
520521.76	4258357.5	55324.42432	0.18021	0.23006	0.18009	0.24282	1.11E-02	7.38E-06	8.23E-06	7.37E-06	8.34E-06	1.1111E-02
520105.65	4258957.57	55319.85693	9.63781	0.40572	8.17073	0.37565	1.11E-02	3.95E-04	1.45E-05	3.35E-04	1.29E-05	1.1835E-02
520412.45	4258233.24	55318.88772	0.21842	0.51246	0.22482	0.5506	1.11E-02	8.94E-06	1.83E-05	9.21E-06	1.89E-05	1.1134E-02
520495.6	4258296.23	55272.70413	0.1826	0.26582	0.18222	0.28077	1.11E-02	7.48E-06	9.51E-06	7.46E-06	9.64E-06	1.1103E-02
520432.67	4258243.42	55269.35837	0.19939	0.36562	0.20396	0.39142	1.11E-02	8.16E-06	1.31E-05	8.35E-06	1.34E-05	1.1111E-02
520383.76	4258233.27	55265.3729	0.21493	0.48337	0.2213	0.51882	1.11E-02	8.80E-06	1.73E-05	9.06E-06	1.78E-05	1.1121E-02
520490.86	4258853.16	55255.76993	0.27458	0.15351	0.26297	0.16135	1.11E-02	1.12E-05	5.49E-06	1.08E-05	5.54E-06	1.1099E-02
520429.85	4258938.46	55255.44435	0.37515	0.15663	0.35708	0.16493	1.11E-02	1.54E-05	5.60E-06	1.46E-05	5.66E-06	1.1107E-02
520453.93	4258908.48	55247.85448	0.33032	0.15458	0.31475	0.16278	1.11E-02	1.35E-05	5.53E-06	1.29E-05	5.59E-06	1.1102E-02
520529.1	4258769.08	55240.90524	0.22471	0.15862	0.21529	0.16535	1.11E-02	9.20E-06	5.67E-06	8.81E-06	5.68E-06	1.1092E-02
520364.18	4258233.21	55211.0645	0.22178	0.54404	0.22814	0.5852	1.11E-02	9.08E-06	1.95E-05	9.34E-06	2.01E-05	1.1115E-02
520559.48	4258521.27	55174.71735	0.9535	13.20721	1.12797	7.76162	1.10E-02	3.90E-05	4.72E-04	4.62E-05	2.66E-04	1.1874E-02
520119	4258382.44	55120.09386	0.41956	7.43683	0.44093	8.97942	1.10E-02	1.72E-05	2.66E-04	1.81E-05	3.08E-04	1.1648E-02
520393.55	4258233.3	55114.21399	0.21142	0.45643	0.21761	0.4896	1.10E-02	8.66E-06	1.63E-05	8.91E-06	1.68E-05	1.1088E-02
520468.51	4258264.61	55109.86718	0.18895	0.30334	0.19076	0.32313	1.10E-02	7.74E-06	1.09E-05	7.81E-06	1.11E-05	1.1074E-02
520053.57	4258896.1	55084.76948	6.56251	0.47211	11.38423	0.45235	1.10E-02	2.69E-04	1.69E-05	4.66E-04	1.55E-05	1.1799E-02
520486.29	4258282.24	55030.58841	0.18437	0.27804	0.18457	0.29473	1.10E-02	7.55E-06	9.95E-06	7.56E-06

520187.47	4259013.12	54119.0162	2.17614	0.28876	1.98433	0.28616	1.08E-02	8.91E-05	1.03E-05	8.12E-05	9.82E-06	1.1029E-02
520334.82	4258233.12	54078.7613	0.23118	0.65604	0.23742	0.70947	1.08E-02	9.47E-06	2.35E-05	9.72E-06	2.44E-05	1.0897E-02
520451.08	4258247.14	54075.35954	0.19268	0.33234	0.19616	0.35514	1.08E-02	7.89E-06	1.19E-05	8.03E-06	1.22E-05	1.0869E-02
520149.52	4258995.67	54073.61223	3.68338	0.33976	3.25293	0.32266	1.08E-02	1.51E-04	1.22E-05	1.33E-04	1.11E-05	1.1136E-02
520286.5	4259022.95	54042.35966	0.89464	0.196	0.84688	0.2089	1.08E-02	3.66E-05	7.01E-06	3.47E-05	7.17E-06	1.0908E-02
520326.08	4259012.89	54010.12892	0.68405	0.17624	0.64992	0.18888	1.08E-02	2.80E-05	6.30E-06	2.66E-05	6.48E-06	1.0884E-02
520531.6	4258409.1	53984.24051	0.18228	0.21374	0.18035	0.22572	1.08E-02	7.46E-06	7.65E-06	7.38E-06	7.75E-06	1.0841E-02
520017.12	4258646.05	53967.56951	1.41155	1.90682	1.80477	1.69131	1.08E-02	5.78E-05	6.82E-05	7.39E-05	5.81E-05	1.1066E-02
520385.44	4258982.79	53916.18569	0.479	0.16041	0.45612	0.17033	1.08E-02	1.96E-05	5.74E-06	1.87E-05	5.85E-06	1.0847E-02
520471.28	4258891.29	53848.75812	0.30366	0.15188	0.28986	0.15991	1.08E-02	1.24E-05	5.43E-06	1.19E-05	5.49E-06	1.0819E-02
520011.14	4258789.3	53805.49525	1.98003	0.69627	2.41165	0.67137	1.08E-02	8.11E-05	2.49E-05	9.87E-05	2.30E-05	1.1003E-02
520403.83	4258969.25	53790.40734	0.43242	0.15764	0.41177	0.16672	1.08E-02	1.77E-05	5.64E-06	1.69E-05	5.72E-06	1.0818E-02
520217.19	4259023.07	53787.7566	1.58322	0.28237	1.47242	0.25845	1.08E-02	6.50E-05	9.04E-06	6.03E-05	8.87E-06	1.0915E-02
520480.45	4258877.48	53759.34302	0.29009	0.1515	0.27721	0.15947	1.08E-02	1.19E-05	5.42E-06	1.14E-05	5.47E-06	1.0800E-02
520112.75	4258970.5	53737.75876	7.87503	0.38687	6.6966	0.35868	1.08E-02	3.22E-04	1.38E-05	2.74E-04	1.23E-05	1.1384E-02
520422.91	4258233.39	53728.94688	0.20035	0.38751	0.20559	0.41486	1.08E-02	8.20E-06	1.39E-05	8.42E-06	1.42E-05	1.0805E-02
520539.82	4258743.47	53721.31583	0.21222	0.15953	0.20323	0.1663	1.08E-02	8.69E-06	5.71E-06	8.32E-06	5.71E-06	1.0787E-02
520005.99	4258728.64	53703.78316	1.57224	0.97872	1.92789	0.91919	1.08E-02	6.44E-05	3.50E-05	7.89E-05	3.16E-05	1.0965E-02
520459.7	4258250.83	53677.71601	0.18987	0.31812	0.19276	0.33954	1.07E-02	7.77E-06	1.14E-05	7.89E-06	1.17E-05	1.0788E-02
520295.63	4258242.99	53604.11725	0.24818	0.85747	0.2562	0.93728	1.07E-02	1.02E-05	3.07E-05	1.05E-05	3.22E-05	1.0818E-02
520438.49	4258934.88	53602.84072	0.35876	0.15396	0.34145	0.16204	1.07E-02	1.47E-05	5.51E-06	1.40E-05	5.56E-06	1.0774E-02
520296.4	4259022.93	53596.15361	0.83417	0.18953	0.79051	0.2025	1.07E-02	3.42E-05	6.78E-06	3.24E-05	6.95E-06	1.0814E-02
520495.06	4258285.99	53585.14354	0.18108	0.26734	0.1809	0.28274	1.07E-02	7.41E-06	9.56E-06	7.41E-06	9.71E-06	1.0765E-02
520519.84	4258336.65	53573.26708	0.17792	0.23549	0.17797	0.2478	1.07E-02	7.28E-06	8.42E-06	7.29E-06	8.51E-06	1.0760E-02
520006.86	4258754.86	53564.82096	1.68996	0.83626	2.07927	0.79457	1.07E-02	6.92E-05	2.99E-05	8.51E-05	2.73E-05	1.0939E-02
520462.31	4258905.01	53542.38223	0.31757	0.15204	0.30277	0.16007	1.07E-02	1.30E-05	5.44E-06	1.24E-05	5.50E-06	1.0759E-02
520531.22	4258459.82	53523.11921	0.18823	0.2074	0.18542	0.2191	1.07E-02	7.71E-06	7.42E-06	7.59E-06	7.52E-06	1.0749E-02
520489.86	4258863.58	53430.41337	0.27695	0.15123	0.26504	0.15902	1.07E-02	1.13E-05	5.41E-06	1.09E-05	5.46E-06	1.0733E-02
520325.03	4258233.08	53424.24383	0.23403	0.7004	0.24045	0.75921	1.07E-02	9.58E-06	2.51E-05	9.85E-06	2.61E-05	1.0769E-02
520148.49	4258342.53	53417.9575	0.36086	4.0575	0.37792	4.73336	1.07E-02	1.48E-05	1.45E-04	1.55E-05	1.63E-04	1.1036E-02
520504.47	4258300.03	53400.32952	0.17918	0.25584	0.1787	0.26961	1.07E-02	7.34E-06	9.15E-06	7.32E-06	9.26E-06	1.0727E-02
520355.77	4259002.84	53346.95439	0.56936	0.16596	0.54173	0.1772	1.07E-02	2.33E-05	5.94E-06	2.22E-05	6.08E-06	1.0741E-02
520087.95	4258950.27	53298.27414	16.50572	0.41077	16.44111	0.38246	1.07E-02	6.76E-04	1.47E-05	6.73E-04	1.31E-05	1.2051E-02
520217.2	4258282.75	53276.37	0.29508	1.6721	0.31255	1.87362	1.07E-02	1.21E-05	5.98E-05	1.28E-05	6.43E-05	1.0818E-02
520207.29	4259023.08	53274.97654	1.75388	0.26248	1.61844	0.26552	1.07E-02	7.18E-05	9.39E-06	6.63E-05	9.12E-06	1.0826E-02
520033.34	4258867.77	53249.14449	3.53878	0.50332	4.61327	0.4897	1.07E-02	1.45E-04	1.80E-05	1.89E-04	1.68E-05	1.1032E-02
520039.69	4258569.84	53207.87675	1.2109	4.86356	1.59274	3.7197	1.07E-02	4.96E-05	1.74E-04	6.52E-05	1.28E-04	1.1072E-02
520177.57	4259013.13	53197.21512	2.45643	0.29855	2.22534	0.29226	1.07E-02	1.01E-04	1.07E-05	9.11E-05	1.00E-05	1.0866E-02
520485.9	4258272.06	53194.3661	0.18273	0.27909	0.18331	0.29628	1.07E-02	7.48E-06	9.98E-06	7.51E-06	1.02E-05	1.0688E-02
520168.13	4258322.6	53169.01698	0.33731	3.00231	0.35601	3.42576	1.06E-02	1.38E-05	1.07E-04	1.46E-05	1.18E-04	1.0901E-02
520335.99	4259012.87	53096.19728	0.64271	0.17135	0.6108	0.18352	1.06E-02	2.63E-05	6.13E-06	2.50E-05	6.30E-06	1.0697E-02
520375.56	4258992.8	53059.77155	0.5071	0.16101	0.48262	0.17133	1.06E-02	2.08E-05	5.76E-06	1.98E-05	5.88E-06	1.0678E-02
520468.31	4258254.52	53043.61475	0.18692	0.30508	0.18926	0.32506	1.06E-02	7.65E-06	1.09E-05	7.75E-06	1.12E-05	1.0660E-02
520306.3	4259022.92	53027.64203	0.77944	0.18346	0.7392	0.19636	1.06E-02	3.19E-05	6.56E-06	3.03E-05	6.74E-06	1.0695E-02
520547.59	4258700.97	52990.64375	0.20083	0.16422	0.19273	0.17166	1.06E-02	8.22E-06	5.87E-06	7.89E-06	5.89E-06	1.0640E-02
520177.95	4258312.63	52979.38933	0.3264	2.6264	0.34499	2.99029	1.06E-02	1.34E-05	9.39E-05	1.41E-05	1.03E-04	1.0834E-02
520044.8	4258892.48	52967.57124	4.93667	0.46711	7.16145	0.45128	1.06E-02	2.02E-04	1.67E-05	2.93E-04	1.55E-05	1.1135E-02
520512.2	4258824.31	52963.85553	0.24788	0.15201	0.23761	0.15914	1.06E-02	1.01E-05	5.44E-06	9.73E-06	5.46E-06	1.0638E-02
520432.7	4258233.42	52952.63398	0.19652	0.36798	0.20137	0.39359	1.06E-02	8.05E-06	1.32E-05	8.24E-06	1.35E-05	1.0647E-02
520543.4	4258734.94	52949.99644	0.20826	0.15957	0.19945	0.16646	1.06E-02	8.53E-06	5.71E-06	8.17E-06	5.71E-06	1.0633E-02
520138.67	4258352.5	52933.44512	0.37227	4.84359	0.38911	5.70705	1.06E-02	1.52E-05	1.73E-04	1.59E-05	1.96E-04	1.1001E-02
520109.18	4258392.41	52924.318	0.43063	9.82729	0.4548	11.84313	1.06E-02	1.76E-05	3.52E-04	1.86E-05	4.07E-04	1.1393E-02
520029.81	4258598.97	52884.42774	1.29539	3.21443	1.71407	2.65889	1.06E-02	5.30E-05	1.15E-04	7.02E-05	9.13E-05	1.0920E-02
520266.23	4258252.9	52872.67757	0.26217	1.07409	0.27326	1.18533	1.06E-02	1.07E-05	3.84E-05	1.12E-05	4.07E-05	1.0690E-02
520429.59	4258948.58	52871.41079	0.3767	0.15374	0.35845	0.16188	1.06E-02	1.54E-05	5.50E-06	1.47E-05	5.56E-06	1.0629E-02
520412.34	4258965.73	52866.42353	0.41317	0.1555	0.39347	0.16418	1.06E-02	1.69E-05	5.56E-06	1.61E-05	5.64E-06	1.0631E-02
520499.55	4258849.56	52840.19078	0.26423	0.15082	0.25314	0.15834	1.06E-02	1.08E-05	5.39E-06	1.04E-05	5.44E-06	1.0614E-02
520246.62	4258262.84	52797.09305	0.27367	1.2669	0.28736	1.40697	1.06E-02	1.12E-05	4.53E-05	1.18E-05	4.83E-05	1.0690E-02
520103.61	4258966.72	52765.92673	10.1761	0.39125	8.69025	0.36269	1.06E-02	4.17E-04	1.40E-05	3.56E-04	1.25E-05	1.1366E-02
520383.79	4258223.27	52693.7461	0.21077	0.48693	0.21695	0.52189	1.06E-02	8.63E-06	1.74E-05	8.88E-06	1.79E-05	1.0605E-02
520374	4258223.24	52665.99325	0.21395	0.51624	0.22012	0.55382	1.05E-02	8.76E-06	1.85E-05	9.01E-06	1.90E-05	1.0602E-02
520315.24	4258233.05	52633.38288	0.23669	0.74913	0.24353	0.81401	1.05E-02	9.69E-06	2.68E-05	9.97E-06	2.79E-05	1.0615E-02
520197.39	4259023.1	52630.88976	1.94881	0.27216	1.78884	0.27222	1.05E-02	7.98E-05	9.73E-06	7.32E-05	9.35E-06	1.0712E-02
520514.15	4258314.19	52627.47405	0.17709	0.24417	0.17673	0.25678	1.05E-02	7.25E-06	8.73E-06	7.24E-06	8.82E-06	1.0571E-02
520007.47	4258780.46	52597.54505	1.81517	0.7217	2.19534	0.69373	1.05E-02	7.43E-05	2.58E-05	8.99E-05	2.38E-05	1.0747E-02
520393.58	4258223.3	52568.44161	0.20748	0.45987	0.21361	0.49248	1.05E-02	8.50E-06	1.64E-05	8.75E-06	1.69E-05	1.0578E-02
520364.21	4258223.21	52566.05598	0.21711	0.54783	0.22317	0.58863	1.05E-02	8.89E-06	1.96E-05	9.14E-06	2.02E-05	1.0585E-02
520059.43	4258918.51	52537.50618	8.30808	0.4369	18.78784	0.41671	1.05E-02	3.40E-04	1.56E-05	7.69E-04	1.43E-05	1.1661E-02
520285.84	4258242.96	52495.07635	0.25056	0.92333	0.25955	1.01236	1.05E-02	1.03E-05	3.30E-05	1.06E-05	3.48E-05	1.0602E-02
520187.77	4258302.66	52447.14572	0.31536	2.32254	0.3339	2.63168	1.05E-02	1.29E-05	8.31E-05	1.37E-05	9.03E-05	1.0703E-02
520403.37	4258223.33	52371.39693	0.20418	0.43471	0.2101	0.46538	1.05E-02	8.36E-06	1.55E-05	8.60E-06	1.60E-05	1.0537E-02
520456.29	4258917.51	52369.84253	0.32732	0.15115	0.3118	0.15907	1.05E-02	1.34E-05	5.41E-06	1.28E-05	5.46E-06	1.0525E-02
520049.56	4258540.7	52344.02675	1.03533	7.62916	1.2709	5.3466	1.05E-02	4.24E-05	2.73E-04	5.20E-05	1.84E-04	1.1033E-02
520534.94	4258417.86	52330.15172	0.18154	0.20985	0.17939	0.22144	1.05E-02	7.43E-06	7.51E-06	7.34E-06	7.60E-06	1.0510E-02
520354.42	4258223.18	52305.21392	0.22013	0.58213	0.22611	0.62656	1.05E-02	9.01E-06	2.08E-05	9.26E-06	2.15E-05	1.0535E-02
520316.2	4259022.9	52304.18117	0.72959	0.17776	0.6922	0.19046	1.05E-02	2.99E-05	6.36E-06	2.83E-05	6.54E-06	1.0546E-02
520476.93	4258258.21	52259.10792	0.18393	0.29283	0.1857	0.31146	1.05E-02	7.53E-06	1.05E-05	7.60E-06	1.07E-05	1.0502E-02
520015.13	4258823.02	52252.81191	2.24438	0.59076	2.73789	0.57439	1.05E-02	9.19E-05	2.11E-05	1.12E-04	1.97E-05	1.0709E-02
520049.2	4258904.29	52229.04617	5.72055	0.45004	8.91349	0.43333	1.05E-02	2.34E-04	1.61E-05	3.65E-04	1.49E-05	1.1090E-02
520256.81	4259033	52187.50346	1.12134	0.21323	1.05434	0.2242	1.05E-02	4.59E-05	7.63E-06	4.32E-05	7.70E-06	1.0556E-02
520534.65	4258442.96	52161.93531	0.18452	0.20707	0.18201	0.21849	1.04E-02	7.56E-06	7.41E-06	7.45E-06	7.50E-06	1.0476E-02
520266.71	4259032.98	52161.39039	1.03758	0.20588	0.97815	0.21753	1.04E-02	4.25E-05	7.36E-06	4.00E-05	7.47E-06	1.0543E-02
520531.95	4258371.87	52160.98345	0.17731	0.21829	0.17651	0.23064	1.04E-02	7.26E-06	7.81E-06	7.23E-06	7.92E-06	1.0476E-02
520227.02	4258272.78	52160.46211	0.2845	1.51982	0.30077	1.69736	1.04E-02	1.16E-05	5.44E-05	1.23E-05	5.83E-05	1.0582E-02
520246.91	4259033.02	52158.56943	1.2162	0.22111	1.14031	0.23112	1.04E-02	4.98E-05	7.91E-06	4.67E-05	7.93E-06	1.0558E-02
520395.34	4258982.77	52155.39248	0.45387	0.15639	0.43183	0.16583	1.04E-02	1.86E-05	5.59E-06	1.77E-05	5.69E-06	1.0492E-02
520167.67	4259013.15	52150.79861	2.79852	0.30764	2.51735	0.29757	1.04E-02	1.15E-04	1.10E-05	1.03E-04	1.02E-05	1.0683E-02
520442.49	4258233.45	52104.8772	0.19273	0.34973	0.1971	0.37383	1.04E-02	7.89E-06	1.25E-05	8.07E-06	1.28E-05	1.0476E-02
520345.89	4259012.85	52085.90549	0.60481	0.1668	0.57493	0.17845	1.04E-02	2.48E-05	5.97E-06	2.35E-05	6.13E-06	1.0491E-02
520365.67	4259002.82	52077.93488	0.53737	0.16171	0.51118	0.17242	1.04E-02	2.20E-05	5.78E-06	2.09E-05	5.92E-06	1.0484E-02
520034.75	4258878.34	52059.04821	3.69518	0.48221	4.86576	0.46908	1.04E-02	1.51E-04	1.72E-05	1.99E-04	1.61E-05	1.0809E-02
520546.97	4258726.4	52046.27685	0.20442	0.15946	0.1958	0.16649	1.04E-02	8.37E-06	5.70E-06	8.02E-06	5.72E-06	1.0451E-02
520020.34	4258842.42	52037.74906	2.5567	0.54539	3.15349	0.53178	1.04E-02	1.05E-04	1.95E-05	1.29E-04	1.83E-05	1.0693E-02
520237.01	4259033.03	52027.95404	1.32402	0.22943	1.23738	0.23813	1.04E-02	5.42E-05	8.21E-06	5.07E-05	8.18E-06	1.0541E-02
520128.85	4258362.47	52024.00474	0.38325	5.92358	0.40067	7.02607	1.04E-02	1.57E-05	2.12E-04	1.64E-05	2.41E-04	1.0904E-02
520530.6	4258361.28	51965.60785	0.17651	0.22109	0.17608	0.23341	1.04E-02	7.23E-06	7.91E-06	7.21E-06	8.01E-06	1.0437E-02
520451.47	4258237.29	51960.31983	0.19014	0.33347	0.19395	0.35623	1.04E-02	7.79E-06	1.19E-05	7.94E-06	1.22E-05	1.0446E-02
520276.61	4259032.97	51959.98386	0.96259	0.19884	0.90928	0.21094	1.04E-02	3.94E-05	7.11E-06	3.72E-05	7.24E-06	1.0497E-02
520158.68	4259009.44	51954.89706	3.17876	0.31851	2.83875	0.30509	1.04E-02	1.30E-04	1.14E-05	1.16E-04	1.05E-05	1.0673E-02
520413.16	4258223.36	51938.97954	0.20068	0.41164	0.20641	0.44032	1.04E-02	8.22E-06	1.47E-05	8.45E-06	1.51E-05	1.0448E-02
520503.84	4258289.75	51937.56694	0.17777	0.25747	0.17738	0.27163	1.04E-02	7.28E-06	9.21E-06	7.26E-06	9.33E-06	1.0434E-02
520447.13	4258931.31	51935.67111	0.34331	0.15129	0.32681	0.15918	1.04E-02	1.41E-05	5.41E-06	1.34E-05	5.46E-06	1.0439E-02
520494.59	4258275.78	51930.65186	0.17954	0.26867	0.17968	0.28452	1.04E-02	7.35E-06	9.61E-06	7.36E-06	9.77E-06	1.0434E-02
520094.46	4258962.95	51925.37528	13.68566	0.39444	12.14811	0.36641	1.04E-02	5.60E-04	1.41E-05	4.97E-04	1.26E-05	1.1483E-02
520479.72	4258887.79	51889.70253	0.29201	0.14953	0.27916	0.15731	1.04E-02	1.20E-05	5.35E-06	1.14E-05	5.40E-06	1.0426E-02
520019.93	4258628.11	51863.93831	1.32087	2.24134	1.70421	1.94819	1.04E-02	5.41E-05	8.02E-05	6.98E-05	6.69E-05	1.0657E-02
520344.64	4258223.15	51860.30452	0.22294	0.61948	0.22897	0.66789	1.04E-02	9.13E-06	2.22E-05	9.37E-06	2.29E-05	1.0446E-02
520187.49	4259023.12	51854.65768	2.18105	0.2817	1.99037	0.27846	1.04E-02	8.93E-05	1.01E-05	8.15E-05	9.56E-06	1.0575E-02
520420.85	4258962.2	51829.59005	0.39513	0.15333	0.37623	0.16164	1.04E-02	1.62E-05	5.48E-06	1.54E-05	5.55E-06	1.0422E-02
520113.27	4258980.7	51821.79389	7.89723	0.37383	6.66998	0.34655	1.04E-02	3.23E-04	1.34E-05	2.73E-04	1.19E-05	1.1000E-02
520197.59	4258292.69	51804.50569	0.30468	2.07052	0.32281	2.33741	1.04E-02	1.25E-05	7.41E-05	1.32E-05	8.02E-05	1.0555E-02
520007.12	4258683.15	51795.19095	1.37204	1.32904	1.6948	1.12681	1.04E-02	5.62E-05	4.75E-05	6.94E-05	4.18E-05	1.0588E-02
520525.4	4258801.87	51774.07296	0.23236	0.15207	0.22269	0.15879	1.04E-02	9.51E-06	5.44E-06	9.12E-06	5.45E-06	1.0398E-02
520227.11	4259033.05	51773.26276	1.44734	0.23812	1.3476	0.24511	1.04E-02	5.93E-05	8.52E-06	5.52E-05	8.41E-06	1.0500E-02
520470.69	4258901.54	51771.97826	0.3054	0.14951	0.29135	0.15734	1.04E-02	1.25E-05	5.35E-06	1.19E-05	5.40E-06	1.0403E-02
520305.45	4258233.02	51756.46872	0.23922	0.80275	0.24669	0.8747	1.04E-02	9.79E-06	2.87E-05	1.01E-05	3.00E-05	1.0444E-02
520534.32	4258382.9	51728.63554	0.17759	0.2147	0.17634	0.22687	1.04E-02	7.27E-06	7.68E-06	7.22E-06	7.79E-06	1.0389E-02
520528.93	4258793.43	51719.30066	0.22807	0.15266	0.21857	0.15929	1.04E-02	9.34E-06	5.46E-06	8.95E-06	5.47E-06	1.0387E-02
520149.69	4259005.73	51684.17746	3.65988	0.32897	3.24065	0.31221	1.04E-02	1.50E-04	1.18E-05	1.33E-04	1.07E-05	1.0655E-02
520286.51	4259032.95	51649.89643	0.89537	0.19214	0.84701	0.20452	1.03E-02	3.67E-05	6.87E-06	3.47E-05	7.02E-06	1.0429E-02
520003.14	4258745.9	51643.42803	1.54648	0.86765	1.88355	0.82097	1.03E-02	6.33E-05	3.10E-05	7.71E-05	2.82E-05	1.0542E-02
520488.97	4258873.96	51642.74893	0.27914	0.14893	0.26693	0.15663	1.03E-02	1.14E-05	5.33E-06	1.09E-05	5.38E-06	1.0375E-02
520460.45	4258241.14	51603.4084	0.18738	0.31853	0.19063	0.33991	1.03E-02	7.67E-06	1.14E-05	7.81E-06	1.17E-05	1.0373E-02
520011.5	4258814.28	51587.76101	2.06004	0.61102	2.50103	0.59283	1.03E-02	8.43E-05	2.19E-05	1.02E-04	2.04E-05	1.0560E-02
520532.46	4258785	51585.3233	0.22385	0.1533	0.21455	0.15983	1.03E-02	9.17E-06	5.48E-06	8.78E-06	5.49E-06	1.0360E-02
520326.1	4259022.89	51546.71655	0.68439	0.17253	0.6495	0.18491	1.03E-02	2.80E-05	6.17E-06	2.66E-05	6.35E-06	1.0390E-02
520529.45	4258350.78	51534.27337	0.17559	0.22377	0.1754	0.23595	1.03E-02	7.19E-06	8.00E-06	7.18E-06	8.10E-06	1.0351E-02
520385.46	4258992.79	51522.71008	0.47982	0.15705	0.45662	0.16687	1.03E-02	1.96E-05	5.62E-06	1.87E-05	5.73E-06	1.0368E-02
520551.22	4258892.32	51497.93615	0.19717	0.16419	0.18933	0.17151	1.03E-02	8.07E-06	5.87E-06	7.75E-06	5.89E-06	1.0341E-02
520017.12	4258636.77	51496.34068	1.31954	2.02975	1.68549	1.78629	1.03E-02	5.40E-05	7.26E-05	6.90E-05	6.13E-05	1.0570E-02
520022.72	4258853.39	51493.17727	2.71947	0.5215	3.3783	0.50893	1.03E-02	1.11E-04	1.87E-05	1.38E-04	1.75E-05	1.0598E-02
520511.13	4258834.76	51485.41954	0.2502	0.14979	0.23979	0.15692	1.03E-02	1.02E-05	5.36E-06	9.82E-06	5.39E-06	1.0341E-02
520485.55	4258261.89	51427.13856	0.181	0.28097	0.1821	0.29846	1.03E-02	7.41E-06	1.00E-05	7.46E-06	1.02E-05	1.0334E-02
520217.21	4259033.07	51411.27756	1.58964	0.24714	1.47397	0.252	1.03E-02	6.51E-05	8.84E-06	6.04E-05	8.65E-06	1.0439E-02
520403.79	4258979.27	51410.35652	0.43352	0.15425	0.41242	0.16329	1.03E-02	1.78E-05	5.52E-06	1.69E-05	5.61E-06	1.0341E-02
520256.44	4258252.87	51393.36114	0.26375	1.16754	0.27629	1.29228	1.03E-02	1.08E-05	4.18E-05	1.13E-05	4.44E-05	1.0400E-02
520513.34	4258303.83	51390.38429	0.1758	0.24625	0.17533	0.25902	1.03E-02	7.20E-06	8.81E-06	7.18E-06	8.89E-06	1.0324E-02
520422.94	4258223.39	51389.70531	0.19714	0.39028	0.20259	0.41718	1.03E-02	8.07E-06	1.40E-05	8.29E-06	1.43E-05	1.0336E-02
520140.71	4259002.02	51382.53332	4.29441	0.33894	3.76041	0.31895	1.03E-02	1.76E-04	1.21E-05	1.54E-04	1.09E-05	1.0643E-02
520535.99	4258776.56	51368.47685	0.21971	0.1539	0.21058	0.16032	1.03E-02	9.00E-06	5.50E-06	8.62E-06	5.50E-06	1.0316E-02
520438.16	4258945.03	51356.61052	0.36031	0.15123	0.34285	0.15913	1.03E-02	1.48E-05	5.41E-06	1.40E-05	5.46E-06	1.0325E-02
520334.85	4258223.12	51355.84737	0.22573	0.66005	0.23186	0.71333	1.03E-02	9.24E-06	2.36E-05	9.49E-06	2.45E-05	1.0352E-02
520004.25	4258700.34	51337.42457	1.38572	1.16109	1.69441	1.07433	1.03E-02	5.67E-05	4.15E-05	6.94E-05	3.69E-05	1.0486E-02
520276.05	4258242.93	51285.56373	0.25264	0.99701	0.26282	1.09652	1.03E-02	1.03E-05	3.57E-05	1.08E-05	3.76E-05	1.0365E-02
520296.42	4259032.93	51231.94341	0.83473	0.18577	0.79036	0.19827	1.03E-02	3.42E-05	6.64E-06	3.24E-05	6.81E-06	1.0340E-02
520498.46	4258860.02	51218.71692	0.26657	0.14867	0.25531	0.15615	1.03E-02	1.09E-05	5.32E-06	1.05E-05	5.36E-06	1.0289E-02
520003.81	4258771.61	51181.73719	1.66241	0.7483	2.002	0.71654	1.02E-02	6.81E-05	2.68E-05	8.20E-05	2.46E-05	1.0451E-02
520534.69	4258468.95	51082.91247	0.18702	0.20315	0.18388	0.21469	1.02E-02	7.66E-06	7.27E-06	7.

520040.1	4258900.54	50186.90411	4.32893	0.44531	5.9603	0.43208	1.01E-02	1.77E-04	1.59E-05	2.44E-04	1.48E-05	1.0503E-02
520546.59	4258751.26	50135.92322	0.20782	0.15494	0.19907	0.16132	1.00E-02	8.51E-06	5.54E-06	8.15E-06	5.54E-06	1.0068E-02
520364.24	4258213.21	50124.80387	0.21259	0.55128	0.21832	0.59191	1.00E-02	8.70E-06	1.97E-05	8.94E-06	2.03E-05	1.0096E-02
520512.62	4258293.51	50087.11755	0.17445	0.24812	0.174	0.26111	1.00E-02	7.14E-06	8.87E-06	7.12E-06	8.96E-06	1.0063E-02
520316.22	4259032.9	50052.05277	0.73016	0.17428	0.69214	0.18663	1.00E-02	2.99E-05	6.23E-06	2.83E-05	6.41E-06	1.0094E-02
520217.23	4258272.75	50047.74357	0.28405	1.68176	0.30095	1.8825	1.00E-02	1.16E-05	6.02E-05	1.23E-05	6.46E-05	1.0171E-02
520442.52	4258223.45	50027.51265	0.19005	0.35187	0.19467	0.37578	1.00E-02	7.78E-06	1.26E-05	7.97E-06	1.29E-05	1.0060E-02
520479.07	4258898.07	50024.81409	0.29389	0.14726	0.28074	0.15488	1.00E-02	1.20E-05	5.27E-06	1.15E-05	5.32E-06	1.0052E-02
520403.4	4258213.33	50020.49217	0.20047	0.43788	0.20636	0.46796	1.00E-02	8.21E-06	1.57E-05	8.45E-06	1.61E-05	1.0066E-02
520167.69	4259023.15	50019.17754	2.80632	0.29947	2.52645	0.2891	1.00E-02	1.15E-04	1.07E-05	1.03E-04	9.93E-06	1.0256E-02
520451.41	4258227.26	49978.86458	0.18772	0.33537	0.19182	0.3581	1.00E-02	7.69E-06	1.20E-05	7.85E-06	1.23E-05	1.0049E-02
520266.26	4258242.9	49978.74312	0.25435	1.07993	0.26585	1.19131	1.00E-02	1.04E-05	3.86E-05	1.09E-05	4.09E-05	1.0110E-02
520315.27	4258223.05	49969.18471	0.23081	0.75318	0.23779	0.81824	1.00E-02	9.45E-06	2.69E-05	9.74E-06	2.81E-05	1.0081E-02
520099.36	4258402.38	49956.11732	0.44004	14.01788	0.46876	15.73276	1.00E-02	1.80E-05	5.01E-04	1.92E-05	5.40E-04	1.1083E-02
520095.14	4258973.22	49932.56186	13.38111	0.37983	11.83297	0.35309	1.00E-02	5.48E-04	1.36E-05	4.84E-04	1.21E-05	1.1058E-02
520488.17	4258884.29	49923.47747	0.28108	0.14693	0.26883	0.15449	1.00E-02	1.15E-05	5.26E-06	1.10E-05	5.30E-06	1.0031E-02
520266.73	4259042.98	49887.79774	1.03819	0.20173	0.97811	0.21279	9.99E-03	4.25E-05	7.22E-06	4.00E-05	7.31E-06	1.0088E-02
520395.36	4258992.77	49884.01248	0.45465	0.15313	0.43236	0.1625	9.99E-03	1.86E-05	5.48E-06	1.77E-05	5.58E-06	1.0037E-02
520554.12	4258709.33	49855.29915	0.19708	0.15927	0.18896	0.16642	9.98E-03	8.07E-06	5.70E-06	7.74E-06	5.71E-06	1.0011E-02
520158.77	4259019.47	49841.20528	3.18862	0.30963	2.84869	0.29611	9.98E-03	1.31E-04	1.11E-05	1.17E-04	1.02E-05	1.0250E-02
520354.46	4258213.18	49835.52557	0.21536	0.5856	0.22107	0.62994	9.98E-03	8.82E-06	2.09E-05	9.05E-06	2.16E-05	1.0041E-02
520246.93	4259043.02	49834.12762	1.21655	0.21646	1.14023	0.22582	9.98E-03	4.98E-05	7.74E-06	4.67E-05	7.75E-06	1.0092E-02
520256.83	4259043	49822.00083	1.12107	0.20875	1.05353	0.21911	9.98E-03	4.59E-05	7.47E-06	4.31E-05	7.52E-06	1.0082E-02
520345.9	4259022.85	49814.4603	0.6054	0.16324	0.57474	0.17474	9.98E-03	2.48E-05	5.84E-06	2.35E-05	6.00E-06	1.0036E-02
520004.25	4258796.8	49803.90937	1.74678	0.65376	2.09638	0.63103	9.97E-03	7.15E-05	2.34E-05	8.58E-05	2.17E-05	1.0176E-02
520365.69	4259012.82	49802.85003	0.53797	0.15836	0.5114	0.16895	9.97E-03	2.20E-05	5.66E-06	2.09E-05	5.80E-06	1.0028E-02
520246.66	4258252.84	49796.45581	0.26476	1.27394	0.27867	1.41373	9.97E-03	1.08E-05	4.56E-05	1.14E-05	4.85E-05	1.0089E-02
520237.03	4259043.03	49778.72409	1.32514	0.22463	1.23836	0.23262	9.97E-03	5.43E-05	8.03E-06	5.07E-05	7.99E-06	1.0090E-02
520446.73	4258941.48	49777.30603	0.34463	0.14864	0.32798	0.15634	9.97E-03	1.41E-05	5.32E-06	1.34E-05	5.37E-06	1.0007E-02
520285.87	4258232.96	49715.23902	0.24365	0.92823	0.25303	1.01746	9.96E-03	9.98E-06	3.32E-05	1.04E-05	3.49E-05	1.0045E-02
520276.63	4259042.97	49700.08087	0.96315	0.1949	0.90916	0.20646	9.95E-03	3.94E-05	6.97E-06	3.72E-05	7.09E-06	1.0044E-02
520460.31	4258231.06	49688.35545	0.18516	0.32037	0.18877	0.3418	9.95E-03	7.58E-06	1.15E-05	7.73E-06	1.17E-05	9.9893E-03
520413.19	4258213.36	49681.83144	0.19724	0.41455	0.203	0.44274	9.95E-03	8.08E-06	1.48E-05	8.31E-06	1.52E-05	9.9959E-03
520025.9	4258874.69	49671.07449	2.97054	0.478	3.73421	0.46695	9.95E-03	1.22E-04	1.71E-05	1.53E-04	1.60E-05	1.0255E-02
520168.16	4258312.6	49669.10503	0.32169	3.01447	0.33777	3.44665	9.95E-03	1.32E-05	1.08E-04	1.38E-05	1.18E-04	1.0200E-02
520420.69	4258972.28	49635.33393	0.39637	0.15032	0.37739	0.15858	9.94E-03	1.62E-05	5.38E-06	1.55E-05	5.44E-06	9.9827E-03
520497.49	4258870.43	49589.53069	0.26876	0.14647	0.25723	0.1539	9.93E-03	1.10E-05	5.24E-06	1.05E-05	5.28E-06	9.9630E-03
520149.85	4259015.79	49578.11913	3.66539	0.91928	3.24685	0.30267	9.93E-03	1.50E-04	1.14E-05	1.33E-04	1.04E-05	1.0234E-02
520158.34	4258322.56	49575.84239	0.33155	3.48488	0.34726	3.99903	9.93E-03	1.36E-05	1.25E-04	1.42E-05	1.37E-04	1.0218E-02
520227.13	4259043.05	49557.11074	1.44862	0.23309	1.34917	0.23934	9.92E-03	5.93E-05	8.34E-06	5.52E-05	8.22E-06	1.0056E-02
520000.14	4258762.77	49512.7052	1.51737	0.77591	1.82693	0.73932	9.92E-03	6.21E-05	2.78E-05	7.48E-05	2.54E-05	1.0106E-02
520550.12	4258742.83	49510.13172	0.20404	0.15508	0.19546	0.16156	9.92E-03	8.35E-06	5.55E-06	8.00E-06	5.55E-06	9.9425E-03
520487.38	4258252.66	49492.95819	0.17858	0.27941	0.18	0.29694	9.91E-03	7.31E-06	9.99E-06	7.37E-06	1.02E-05	9.9465E-03
520187.51	4259033.12	49480.79549	2.17737	0.27429	1.98822	0.2706	9.91E-03	8.92E-05	9.81E-06	8.14E-05	9.29E-06	1.0099E-02
520177.98	4258302.63	49446.00498	0.31167	2.64031	0.32825	3.00201	9.90E-03	1.28E-05	9.44E-05	1.34E-05	1.03E-04	1.0126E-02
519999.42	4258736.93	49444.58686	1.40886	0.89888	1.70178	0.8466	9.90E-03	5.77E-05	3.22E-05	6.97E-05	2.91E-05	1.0091E-02
520344.67	4258213.15	49384.24692	0.21796	0.62301	0.2238	0.67146	9.89E-03	8.92E-06	2.23E-05	9.16E-06	2.31E-05	9.9533E-03
520326.12	4259032.89	49377.9411	0.68499	0.16918	0.64958	0.18128	9.89E-03	2.80E-05	6.05E-06	2.66E-05	6.22E-06	9.9555E-03
520286.53	4259042.95	49323.81678	0.89539	0.18821	0.84601	0.20009	9.88E-03	3.67E-05	6.73E-06	3.46E-05	6.87E-06	9.9627E-03
520437.86	4258955.16	49313.96182	0.36195	0.14858	0.34439	0.15633	9.88E-03	1.48E-05	5.31E-06	1.41E-05	5.37E-06	9.9154E-03
520522.21	4258307.63	49293.71335	0.17249	0.23699	0.17205	0.24895	9.87E-03	7.06E-06	8.48E-06	7.04E-06	8.55E-06	9.9029E-03
520385.47	4259002.79	49285.24123	0.48054	0.1538	0.45705	0.16353	9.87E-03	1.97E-05	5.50E-06	1.87E-05	5.61E-06	9.9195E-03
520140.93	4259012.11	49256.28601	4.2789	0.32828	3.75292	0.30877	9.86E-03	1.75E-04	1.17E-05	1.54E-04	1.06E-05	1.0215E-02
520061.39	4258939.3	49247.53632	9.06667	0.40428	19.47478	0.38534	9.86E-03	3.71E-04	1.45E-05	7.97E-04	1.32E-05	1.1059E-02
520061.52	4258025.24	49241.67015	6.24871	0.41594	10.25635	0.40004	9.86E-03	2.56E-04	1.49E-05	4.20E-04	1.37E-05	1.0566E-02
520422.98	4258213.39	49210.04238	0.19393	0.39295	0.19948	0.41939	9.85E-03	7.94E-06	1.41E-05	8.17E-06	1.44E-05	9.8995E-03
520217.23	4259043.07	49203.63464	1.59085	0.24173	1.47568	0.24586	9.85E-03	6.51E-05	8.65E-06	6.04E-05	8.44E-06	9.9963E-03
520469.2	4258234.87	49177.75301	0.18242	0.30666	0.18557	0.3267	9.85E-03	7.47E-06	1.10E-05	7.60E-06	1.12E-05	9.8858E-03
520473.72	4258910.29	49173.11027	0.30212	0.14624	0.28823	0.1538	9.85E-03	1.24E-05	5.23E-06	1.18E-05	5.28E-06	9.8823E-03
520404.09	4258989.16	49167.46623	0.43367	0.15092	0.41233	0.1599	9.85E-03	1.78E-05	5.40E-06	1.69E-05	5.49E-06	9.8920E-03
520305.48	4258223.02	49150.71808	0.23116	0.80684	0.24084	0.87923	9.84E-03	9.55E-06	2.89E-05	9.86E-06	3.02E-05	9.9216E-03
520227.05	4258262.78	49084.97638	0.27436	1.52854	0.29036	1.70522	9.83E-03	1.12E-05	5.47E-05	1.19E-05	5.85E-05	9.9663E-03
520538.16	4258478.07	49075.74495	0.18586	0.19953	0.18235	0.21084	9.83E-03	7.61E-06	7.14E-06	7.47E-06	7.24E-06	9.8575E-03
520507.07	4258856.46	49051.0903	0.25678	0.14608	0.246	0.15327	9.82E-03	1.05E-05	5.23E-06	1.01E-05	5.26E-06	9.8542E-03
520086.07	4258969.48	49050.76739	14.12102	0.38064	18.36207	0.35556	9.82E-03	5.78E-04	1.36E-05	7.52E-04	1.22E-05	1.1179E-02
520502.79	4258269.27	49046.58877	0.17491	0.26023	0.17504	0.27525	9.82E-03	7.16E-06	9.31E-06	7.17E-06	9.45E-06	9.8553E-03
520029.77	4258589.27	49037.22162	1.17454	3.3659	1.54052	2.76174	9.82E-03	4.81E-05	1.20E-04	6.31E-05	9.48E-05	1.0147E-02
520187.8	4258292.66	49022.26699	0.30174	2.3358	0.31865	2.64153	9.82E-03	1.24E-05	8.35E-05	1.30E-05	9.07E-05	1.0017E-02
520138.7	4258342.5	49006.32667	0.35212	4.86375	0.36653	5.72042	9.81E-03	1.44E-05	1.74E-04	1.50E-05	1.96E-04	1.0214E-02
520132.02	4259008.43	48892.27455	5.09011	0.33638	4.41394	0.31434	9.79E-03	2.08E-04	1.20E-05	1.81E-04	1.08E-05	1.0203E-02
520296.43	4259042.93	48887.23938	0.83443	0.18199	0.78915	0.19404	9.79E-03	3.42E-05	6.51E-06	3.23E-05	6.66E-06	9.8700E-03
520041.4	4258911.07	48878.88804	4.51393	0.42801	6.30897	0.41506	9.79E-03	1.85E-04	1.53E-05	2.58E-04	1.42E-05	1.0261E-02
520334.88	4258213.12	48842.46983	0.22046	0.6637	0.22658	0.71696	9.78E-03	9.03E-06	2.37E-05	9.28E-06	2.46E-05	9.8480E-03
520511.98	4258283.22	48832.89653	0.17314	0.24963	0.17277	0.26301	9.78E-03	7.09E-06	8.93E-06	7.07E-06	9.03E-06	9.8116E-03
520542.05	4258410.67	48829.29932	0.17703	0.20518	0.17489	0.21635	9.78E-03	7.25E-06	7.34E-06	7.16E-06	7.43E-06	9.8079E-03
520019.89	4258618.41	48821.82738	1.21338	2.36728	1.55596	2.04395	9.78E-03	4.97E-05	8.47E-05	6.37E-05	7.02E-05	1.0045E-02
520464.41	4258924.15	48795.56843	0.31602	0.14634	0.30115	0.15388	9.77E-03	1.29E-05	5.23E-06	1.23E-05	5.28E-06	9.8078E-03
520007.12	4258664.6	48794.9619	1.24983	1.49798	1.54488	1.35767	9.77E-03	5.12E-05	5.36E-05	6.33E-05	4.66E-05	9.9865E-03
520355.8	4259022.84	48779.54041	0.5706	0.15898	0.54167	0.16998	9.77E-03	2.34E-05	5.69E-06	2.22E-05	5.84E-06	9.8258E-03
520541.61	4258435.38	48768.84093	0.17992	0.2026	0.17741	0.21158	9.77E-03	7.37E-06	7.25E-06	7.26E-06	7.33E-06	9.7958E-03
520553.65	4258734.39	48768.36828	0.20039	0.15503	0.19195	0.16164	9.77E-03	8.20E-06	5.55E-06	7.86E-06	5.55E-06	9.7937E-03
520207.32	4259043.08	48744.07634	1.75653	0.25049	1.6219	0.25214	9.76E-03	7.19E-05	8.96E-06	6.64E-05	8.66E-06	9.9176E-03
520177.6	4259033.13	48709.51663	2.45858	0.28306	2.23125	0.27598	9.75E-03	1.01E-04	1.01E-05	9.14E-05	9.47E-06	9.9664E-03
520432.76	4258213.42	48673.55608	0.19063	0.37283	0.19587	0.39779	9.75E-03	7.81E-06	1.33E-05	8.02E-06	1.37E-05	9.7904E-03
520000.62	4258788.06	48667.10484	1.61024	0.67614	1.92163	0.65062	9.75E-03	6.59E-05	2.42E-05	7.87E-05	2.23E-05	9.9374E-03
520109.21	4258382.41	48663.60889	0.40343	9.86327	0.42459	11.85859	9.75E-03	1.65E-05	3.53E-04	1.74E-05	4.07E-04	1.0539E-02
520013.67	4258849.66	48637.59529	2.23652	0.51788	2.71056	0.50576	9.74E-03	9.16E-05	1.85E-05	1.11E-04	1.74E-05	9.9788E-03
520027.27	4258885.25	48631.13569	3.08733	0.45838	3.90798	0.44787	9.74E-03	1.26E-04	1.64E-05	1.60E-04	1.54E-05	1.0057E-02
520539.44	4258365.07	48627.52332	0.17282	0.21289	0.17207	0.2247	9.74E-03	7.08E-06	7.61E-06	7.05E-06	7.71E-06	9.7678E-03
520008.1	4258830.19	48601.46538	1.96654	0.55895	2.35671	0.54413	9.73E-03	8.05E-05	2.00E-05	9.65E-05	1.87E-05	9.9488E-03
520557.69	4258700.8	48598.35108	0.1936	0.15932	0.18577	0.16639	9.73E-03	7.93E-06	5.70E-06	7.61E-06	5.71E-06	9.7594E-03
520429.13	4258868.78	48595.17174	0.37956	0.14814	0.36122	0.15607	9.73E-03	1.55E-05	5.30E-06	1.48E-05	5.36E-06	9.7728E-03
520276.08	4258232.93	48581.26838	0.24548	1.00212	0.25603	1.10198	9.73E-03	1.01E-05	3.58E-05	1.05E-05	3.78E-05	9.8233E-03
520336.02	4259032.87	48576.61227	0.64365	0.16444	0.61053	0.17619	9.73E-03	2.64E-05	5.88E-06	2.50E-05	6.05E-06	9.7914E-03
520256.48	4258242.87	48565.65748	0.25559	1.17375	0.26841	1.29839	9.73E-03	1.05E-05	4.20E-05	1.10E-05	4.46E-05	9.8339E-03
520478.09	4258238.67	48558.12968	0.17963	0.2937	0.18223	0.3125	9.72E-03	7.35E-06	1.05E-05	7.46E-06	1.07E-05	9.7605E-03
520375.59	4259012.8	48544.57112	0.50838	0.15446	0.48339	0.16455	9.72E-03	2.08E-05	5.52E-06	1.98E-05	5.65E-06	9.7735E-03
520540.93	4258375.72	48539.10895	0.17346	0.21015	0.1723	0.22189	9.72E-03	7.10E-06	7.52E-06	7.05E-06	7.62E-06	9.7499E-03
520197.62	4258282.69	48516.19038	0.29214	2.08264	0.30899	2.3465	9.72E-03	1.20E-05	7.45E-05	1.27E-05	8.06E-05	9.8957E-03
520538.17	4258354.51	48474.97245	0.17204	0.2154	0.17161	0.22716	9.71E-03	7.04E-06	7.70E-06	7.03E-06	7.80E-06	9.7373E-03
520306.33	4259042.92	48470.92257	0.78014	0.17631	0.73842	0.1884	9.71E-03	3.19E-05	6.31E-06	3.02E-05	6.47E-06	9.7819E-03
520039.65	4258560.14	48467.78435	1.07981	5.00718	1.37521	3.83459	9.71E-03	4.42E-05	1.79E-04	5.63E-05	1.32E-04	1.0118E-02
520496.36	4258256.51	48432.04771	0.17551	0.26842	0.17638	0.28466	9.70E-03	7.19E-06	9.60E-06	7.22E-06	9.77E-06	9.7330E-03
520412.82	4258985.54	48335.64303	0.41396	0.14896	0.39376	0.15754	9.68E-03	1.69E-05	5.33E-06	1.61E-05	5.41E-06	9.7277E-03
520455.3	4258937.93	48323.80362	0.33048	0.14626	0.31466	0.15377	9.68E-03	1.35E-05	5.23E-06	1.29E-05	5.28E-06	9.7144E-03
520123.1	4259004.75	48286.17482	6.14886	0.34272	5.27964	0.31889	9.67E-03	2.52E-04	1.23E-05	2.16E-04	1.09E-05	1.0161E-02
520487.45	4258894.6	48274.65997	0.28282	0.14496	0.27064	0.15233	9.67E-03	1.16E-05	5.19E-06	1.11E-05	5.23E-06	9.7007E-03
520516.95	4258842.36	48255.50498	0.24515	0.14552	0.23493	0.15242	9.66E-03	1.00E-05	5.21E-06	9.62E-06	5.23E-06	9.6939E-03
520325.09	4258213.08	48217.00653	0.22287	0.70815	0.22942	0.76702	9.66E-03	9.13E-06	2.53E-05	9.39E-06	2.63E-05	9.7263E-03
520295.69	4258222.99	48209.34018	0.23524	0.86639	0.24387	0.9469	9.65E-03	9.63E-06	3.10E-05	9.99E-06	3.25E-05	9.7377E-03
520095.76	4258983.47	48207.4656	13.14477	0.36665	11.61083	0.34096	9.65E-03	5.38E-04	1.31E-05	4.75E-04	1.17E-05	1.0693E-02
520532.42	4258809.04	48203.07305	0.2268	0.1474	0.2174	0.15385	9.65E-03	9.29E-06	5.27E-06	8.90E-06	5.28E-06	9.6821E-03
520521.4	4258297.26	48189.59233	0.17123	0.23901	0.17074	0.25108	9.65E-03	7.01E-06	8.55E-06	6.99E-06	8.62E-06	9.6818E-03
520537.07	4258344.03	48129.181	0.17114	0.218	0.17092	0.22959	9.64E-03	7.01E-06	7.80E-06	7.00E-06	7.88E-06	9.6682E-03
520383.85	4258203.27	48123.85701	0.20274	0.49326	0.2083	0.52768	9.64E-03	8.30E-06	1.76E-05	8.53E-06	1.81E-05	9.6900E-03
520197.42	4259043.1	48110.94338	1.95026	0.25912	1.79156	0.25798	9.63E-03	7.99E-05	9.27E-06	7.34E-05	8.86E-06	9.8062E-03
520030.99	4258896.78	48106.04437	3.39741	0.44111	4.38643	0.43048	9.63E-03	1.39E-04	1.58E-05	1.80E-04	1.48E-05	9.9832E-03
520236.87	4258252.81	48093.07945	0.26512	1.39599	0.2801	1.55277	9.63E-03	1.09E-05	4.99E-05	1.15E-05	5.33E-05	9.7569E-03
520128.88	4258352.47	48084.69957	0.36166	5.9459	0.37667	7.0405	9.63E-03	1.48E-05	2.13E-04	1.54E-05	2.42E-04	1.0114E-02
520393.64	4258203.3	48065.48918	0.19986	0.46604	0.20551	0.49793	9.63E-03	8.18E-06	1.67E-05	8.41E-06	1.71E-05	9.6761E-03
520451.37	4258217.22	48061.98886	0.18522	0.13746	0.18958	0.16004	9.63E-03	7.58E-06	5.21E-06	7.76E-06	1.24E-05	9.6648E-03
520539.41	4258792.35	48054.70003	0.21877	0.14863	0.20972	0.1549	9.62E-03	8.96E-06	5.32E-06	8.59E-06	5.32E-06	9.6518E-03
520442.55	4258213.45	48033.77982	0.1873	0.35409	0.19215	0.37771	9.62E-03	7.67E-06	1.27E-05	7.87E-06	1.30E-05	9.6006E-03
520015.45	4258860.38	48019.32612	2.34085	0.49556	2.84744	0.48459	9.62E-03	9.58E-05	1.77E-05	1.17E-04	1.66E-05	9.8633E-03
520496.62	4258880.8	48007.09571	0.27075	0.14436	0.25904	0.15169	9.61E-03	1.11E-05	5.16E-06	1.06E-05	5.21E-06	9.6461E-03
520541.44	4258460.8	47989.63247	0.18249	0.19959	0.17951	0.21061	9.61E-03	7.47E-06	7.14E-06	7.35E-06	7.23E-06	9.6398E-03
520374.06	4258203.24	47985.81695	0.20541	0.52281	0.21096	0.55988	9.61E-03	8.41E-06	1.87E-05	8.64E-06	1.92E-05	9.6648E-03
520011.54	4258821.54	47958.07566	1.81746	0.57709	2.16814	0.56058	9.60E-03	7.44E-05	2.06E-05	8.88E-05	1.92E-05	9.8073E-03
520316.23	4259042.9	47953.00638	0.73062	0.17102	0.69206	0.18301	9.60E-03	2.99E-05	6.12E-06	2.83E-05	6.28E-06	9.6739E-03
519998.44	4258710.45	47935.97572	1.27751	1.04715	1.53823	0.97458	9.60E-03	5.23E-05	3.75E-05	6.30E-05	3.35E-05	9.7866E-03
520487.52	4258242.48	47890.98654	0.17691	0.28068	0.17879	0.29851	9.59E-03	7.24E-06	1.00E-05	7.32E-06	1.02E-05	9.6257E-03
520542.9	4258784	47882.31686	0.21483	0.14931	0.20599	0.15547	9.59E-03	8.80E-06	5.34E-06	8.43E-06	5.34E-06	9.6170E-03
520557.18	4258725.96	47879.43494	0.19681	0.15476	0.18851	0.16151	9.59E-03	8.06E-06	5.54E-06	7.72E-06	5.54E-06	9.6154E-03
520460.18	4258221	47868.81736	0.1829	0.32224	0.1868	0.34364	9.59E-03	7.49E-06	1.15E-05	7.65E-06	1.18E-05	9.6248E-03
520403.43	4258203.33	47864.39259	0.19686	0.44082	0.20257	0.47045	9.59E-03	8.06E-06	1.58E-05	8.29E-06	1.62E-05	9.6338E-03
520364.28	4258203.21	47863.65092	0.20819	0.55436	0.21362	0.59498	9.59E-03	8.52E-06	1.98E-05	8.75E-06	2.04E-05	9.6426E-03
520446.37	4258951.64	47842.2585	0.34629	0.14614	0.32956	0.15367	9.58E-03	1.42E-05	5.23E-06	1.35E-05	5.28E-06	9.6193E-03
520207.44	4258272.72	47829.42337	0.28265	1.8711	0.29931	2.09894	9.58E-03	1.16E-05	6.69E-05	1.23E-05	7.21E-05	9.7413E-03
520000.68	4258691.74	47826.4751	1.24269	1.19268	1.50741	1.09953	9.58E-03	5.09E-05	4.27E-05	6.17E-05	3.77E-05	9.7709E-03
520167.7	4259033.15	47822.2248	2.80102	0.29107	2.52489	0.28061	9.58E-03	1.15E-04	1.04E-05	1.03E-04	9.63E-06	9.8152E-03
520052.54	4258935.65	47765.75931	6.4978	0.40043	10.91474	0.38494	9.57E-03	2.66E-04	1.43E-05	4.47E-04	1.32E-05	1.0306E-02
520395.37	4259002.77	47762.24981	0.45531	0.15005	0.43291	0.15932	9.57E-03	1.86E-05	5.37E-06	1.77E-05	5.47E-06	9.6122E-03
520158.85	4259029.5	47727.57021	3.1827	0.30072	2.84762	0.28726	9.56E-03	1.30E-04	1.08E-05	1.17E-04	9.86E-06	9.8256E-03
520246.94	4259053.02	47696.97813	1.2172	0.21206	1.14053	0.22077	9.55E-03	4.98E-05	7.59E-06	4.67E-05	7.58E-06	9.6637E-03
520345.92	4259032.85	47689.04333	0.60573	0.15996	0.5746	0.17129	9.55E-03	2.48E-05	5.72E-06	2.35E-05	5.88E-06	9.6103E-03
520266.75	4259052.98	47687.18866	1.03825	0.19766	0.97741	0.20817	9.55E-03	4.25E-05	7.07E-06	4.00E-05	7.15E-06	9.6468E-03
520114.18	4259001.06	47673.7991	7.64154	0.34781	6.5048	0.3229	9.55E-03	3.13E-04	1.24E-05	2.66E-04	1.11E-05	1.0150E-02
520256.85	4259053	47665.86643	1.12114	0.20452	1.05313	0.21428	9.55E-03	4.59E-05	7.32E-06	4.31E

520246.69	4258242.84	47033.02363	0.25622	1.28084	0.27021	1.42013	9.42E-03	1.05E-05	4.58E-05	1.11E-05	4.88E-05	9.5351E-03
519995.71	4258727.97	47019.30662	1.28073	0.92882	1.53493	0.87093	9.42E-03	5.24E-05	3.32E-05	6.28E-05	2.99E-05	9.5947E-03
520057.87	4258947.84	46991.21862	7.93632	0.38763	16.08399	0.37096	9.41E-03	3.25E-04	1.39E-05	6.59E-04	1.27E-05	1.0421E-02
520463.87	4258934.38	46985.18364	0.3177	0.14407	0.3027	0.15141	9.41E-03	1.30E-05	5.15E-06	1.24E-05	5.20E-06	9.4452E-03
520032.39	4258907.35	46985.10108	3.5356	0.424	4.60874	0.41365	9.41E-03	1.45E-04	1.52E-05	1.89E-04	1.42E-05	9.7722E-03
520545.94	4258395	46980.01792	0.17331	0.20406	0.17146	0.2152	9.41E-03	7.10E-06	7.30E-06	7.02E-06	7.39E-06	9.4372E-03
520515.67	4258852.89	46978.33134	0.2475	0.14356	0.23719	0.15045	9.41E-03	1.01E-05	5.13E-06	9.71E-06	5.17E-06	9.4382E-03
520495.87	4258246.29	46967.39185	0.17398	0.26982	0.17533	0.2864	9.41E-03	7.12E-06	9.65E-06	7.18E-06	9.83E-06	9.4396E-03
520007.12	4258655.32	46921.22565	1.18387	1.58573	1.46321	1.42981	9.40E-03	4.85E-05	5.67E-05	5.99E-05	4.91E-05	9.6108E-03
520477.81	4258228.54	46913.04199	0.17774	0.2954	0.18075	0.31431	9.39E-03	7.28E-06	1.06E-05	7.40E-06	1.08E-05	9.4310E-03
520132.29	4259018.53	46905.24451	5.05659	0.32557	4.39435	0.30425	9.39E-03	2.07E-04	1.16E-05	1.80E-04	1.04E-05	9.8025E-03
520560.71	4258717.52	46900.47111	0.19334	0.15466	0.18528	0.16148	9.39E-03	7.92E-06	5.53E-06	7.59E-06	5.54E-06	9.4190E-03
520553.39	4258758.96	46882.29875	0.2035	0.1505	0.19503	0.15654	9.39E-03	8.33E-06	5.38E-06	7.99E-06	5.37E-06	9.4159E-03
520296.45	4259052.93	46829.93844	0.83473	0.17856	0.78872	0.19016	9.38E-03	3.42E-05	6.39E-06	3.23E-05	6.53E-06	9.4577E-03
520119.06	4258362.44	46794.34148	0.37086	7.49483	0.38709	8.9918	9.37E-03	1.52E-05	2.68E-04	1.58E-05	3.09E-04	9.9790E-03
520432.8	4258203.42	46730.99499	0.18767	0.37518	0.19297	0.39978	9.36E-03	7.68E-06	1.34E-05	7.90E-06	1.37E-05	9.4012E-03
520355.82	4259032.84	46718.38461	0.57091	0.15577	0.54159	0.16664	9.36E-03	2.34E-05	5.57E-06	2.22E-05	5.72E-06	9.4128E-03
520305.51	4258213.02	46704.60593	0.22725	0.81075	0.23524	0.88338	9.35E-03	9.30E-06	2.90E-05	9.63E-06	3.03E-05	9.4315E-03
520207.34	4259053.08	46691.53866	1.75726	0.24489	1.62363	0.2459	9.35E-03	7.19E-05	8.76E-06	6.65E-05	8.44E-06	9.5062E-03
520177.62	4259043.13	46616.80627	2.45314	0.27555	2.22903	0.26823	9.34E-03	1.00E-04	9.86E-06	9.13E-05	9.21E-06	9.5464E-03
520336.04	4259042.87	46529.95037	0.64379	0.16116	0.61003	0.17268	9.32E-03	2.64E-05	5.76E-06	2.50E-05	5.93E-06	9.3813E-03
520454.87	4258948.11	46513.36926	0.33217	0.14391	0.31627	0.15124	9.31E-03	1.36E-05	5.15E-06	1.29E-05	5.19E-06	9.3518E-03
520334.91	4258203.12	46497.69188	0.21535	0.66708	0.22154	0.72034	9.31E-03	8.82E-06	2.39E-05	9.07E-06	2.47E-05	9.3783E-03
520306.35	4259052.92	46489.15909	0.78047	0.17307	0.73813	0.18473	9.31E-03	3.20E-05	6.19E-06	3.02E-05	6.34E-06	9.3848E-03
520375.61	4259022.8	46484.56089	0.50886	0.15129	0.48344	0.16127	9.31E-03	2.08E-05	5.41E-06	1.98E-05	5.54E-06	9.3607E-03
520495.83	4258891.13	46471.2192	0.27256	0.14241	0.2608	0.14961	9.31E-03	1.12E-05	5.09E-06	1.07E-05	5.14E-06	9.3386E-03
520430.28	4258978.31	46458.89721	0.37811	0.1451	0.36	0.15291	9.30E-03	1.55E-05	5.19E-06	1.47E-05	5.25E-06	9.3447E-03
520049.52	4258531.01	46437.26878	0.91467	7.68277	1.09101	5.4396	9.30E-03	3.75E-05	2.75E-04	4.47E-05	1.87E-04	9.8434E-03
520018.5	4258881.63	46432.9775	2.53585	0.45507	3.10831	0.44579	9.30E-03	1.04E-04	1.63E-05	1.27E-04	1.53E-05	9.5615E-03
520096.34	4258993.7	46419.55057	12.92071	0.35371	11.36419	0.32915	9.30E-03	5.29E-04	1.27E-05	4.65E-04	1.13E-05	1.0314E-02
520123.44	4259014.88	46416.66381	6.11391	0.3316	5.25431	0.3086	9.30E-03	2.50E-04	1.19E-05	2.15E-04	1.06E-05	9.7835E-03
520168.19	4258302.6	46400.22745	0.30687	3.02833	0.32086	3.45857	9.29E-03	1.26E-05	1.08E-04	1.31E-05	1.19E-04	9.5450E-03
520412.7	4258995.59	46353.44842	0.41495	0.14598	0.39464	0.15451	9.28E-03	1.70E-05	5.22E-06	1.62E-05	5.30E-06	9.3266E-03
520486.62	4258232.31	46330.01876	0.17514	0.28292	0.17753	0.30083	9.28E-03	7.17E-06	1.01E-05	7.27E-06	1.03E-05	9.3131E-03
520158.37	4258312.56	46301.40595	0.31576	3.49818	0.32913	4.01805	9.27E-03	1.29E-05	1.25E-04	1.35E-05	1.38E-04	9.5620E-03
520227.08	4258252.78	46296.22679	0.26475	1.53659	0.28024	1.71283	9.27E-03	1.08E-05	5.50E-05	1.15E-05	5.88E-05	9.4075E-03
520530.18	4258301.02	46259.81665	0.16808	0.23018	0.16759	0.24153	9.26E-03	6.88E-06	8.23E-06	6.86E-06	8.29E-06	9.2944E-03
520178.01	4258292.63	46258.54603	0.29789	2.6535	0.31258	3.01216	9.26E-03	1.22E-05	9.49E-05	1.28E-05	1.03E-04	9.4872E-03
519997.34	4258804.24	46248.95423	1.55594	0.61529	1.84158	0.59452	9.26E-03	6.37E-05	2.20E-05	7.54E-05	2.04E-05	9.4435E-03
520451.33	4258207.19	46246.10443	0.18268	0.33956	0.18724	0.36193	9.26E-03	7.48E-06	1.21E-05	7.67E-06	1.24E-05	9.3011E-03
520043.69	4258932	46232.53328	4.86554	0.39648	6.98828	0.38408	9.26E-03	1.99E-04	1.42E-05	2.86E-04	1.32E-05	9.7714E-03
520197.44	4259053.1	46172.3601	1.95188	0.25321	1.7946	0.25149	9.25E-03	7.99E-05	9.06E-06	7.35E-05	8.63E-06	9.4177E-03
520505.07	4258877.3	46171.85931	0.26091	0.14205	0.24988	0.14912	9.25E-03	1.07E-05	5.08E-06	1.02E-05	5.12E-06	9.2777E-03
520442.58	4258203.45	46133.91286	0.18451	0.35632	0.18952	0.37956	9.24E-03	7.55E-06	1.27E-05	7.76E-06	1.30E-05	9.2812E-03
520460.07	4258210.94	46113.36375	0.18056	0.32425	0.18473	0.34552	9.23E-03	7.39E-06	1.16E-05	7.56E-06	1.19E-05	9.2732E-03
520525.64	4258838.76	46109.2233	0.23632	0.14307	0.22658	0.14966	9.23E-03	9.68E-06	5.12E-06	9.28E-06	5.14E-06	9.2632E-03
520446.03	4258961.78	46091.00252	0.34817	0.14374	0.3314	0.15113	9.23E-03	1.43E-05	5.14E-06	1.36E-05	5.19E-06	9.2685E-03
520276.12	4258222.93	46071.15663	0.23857	1.00696	0.24946	1.10697	9.23E-03	9.77E-06	3.60E-05	1.02E-05	3.80E-05	9.3204E-03
520099.39	4258392.38	46043.67426	0.41128	14.04458	0.43642	15.98746	9.22E-03	1.68E-05	5.02E-04	1.79E-05	5.49E-04	1.0307E-02
520520.02	4258276.65	46033.74578	0.16876	0.24204	0.16837	0.25476	9.22E-03	6.91E-06	8.66E-06	6.89E-06	8.75E-06	9.2501E-03
520544.84	4258469.73	46028.37022	0.18136	0.19584	0.17804	0.20671	9.22E-03	7.43E-06	7.00E-06	7.29E-06	7.10E-06	9.2466E-03
520383.88	4258193.27	46014.89522	0.19876	0.49617	0.20405	0.53031	9.22E-03	8.14E-06	1.77E-05	8.35E-06	1.82E-05	9.2676E-03
520021.89	4258893.02	46001.96692	2.74625	0.43757	3.40713	0.42861	9.21E-03	1.12E-04	1.57E-05	1.40E-04	1.47E-05	9.4948E-03
520187.83	4258282.66	45999.84514	0.28912	2.3468	0.30424	2.65257	9.21E-03	1.18E-05	8.39E-05	1.25E-05	9.11E-05	9.4114E-03
520256.51	4258232.87	45998.63801	0.24783	1.17948	0.26076	1.30449	9.21E-03	1.01E-05	4.22E-05	1.07E-05	4.48E-05	9.3197E-03
520393.67	4258193.3	45980.03973	0.19606	0.46893	0.20145	0.50042	9.21E-03	8.03E-06	1.68E-05	8.25E-06	1.72E-05	9.2584E-03
520148.55	4258322.53	45949.02218	0.32455	4.10004	0.33752	4.73413	9.20E-03	1.33E-05	1.47E-04	1.38E-05	1.63E-04	9.5382E-03
520316.25	4259052.9	45946.99358	0.7307	0.16783	0.69155	0.17946	9.20E-03	2.99E-05	6.00E-06	2.83E-05	6.16E-06	9.2719E-03
520325.12	4258203.08	45942.89557	0.21767	0.71144	0.22434	0.77072	9.20E-03	8.91E-06	2.54E-05	9.19E-06	2.65E-05	9.2707E-03
520504.77	4258250.09	45891.84475	0.17103	0.25937	0.17184	0.27479	9.19E-03	7.00E-06	9.28E-06	7.04E-06	9.43E-06	9.2232E-03
520564.24	4258709.09	45875.82464	0.19003	0.15471	0.18225	0.16152	9.19E-03	7.78E-06	5.53E-06	7.46E-06	5.55E-06	9.2136E-03
520374.09	4258193.24	45866.47611	0.20127	0.52572	0.20654	0.56264	9.19E-03	8.24E-06	1.88E-05	8.46E-06	1.93E-05	9.2402E-03
519993.37	4258770.57	45865.02237	1.36513	0.7228	1.61716	0.69015	9.19E-03	5.59E-05	2.59E-05	6.62E-05	2.37E-05	9.3568E-03
520114.59	4259011.23	45852.35496	7.57345	0.33622	6.4512	0.31228	9.18E-03	3.10E-04	1.20E-05	2.64E-04	1.07E-05	9.7795E-03
520481.69	4258917	45848.83848	0.29214	0.14193	0.27908	0.1491	9.18E-03	1.20E-05	5.08E-06	1.14E-05	5.12E-06	9.2154E-03
520403.46	4258193.33	45838.79544	0.19328	0.44359	0.19877	0.4728	9.18E-03	7.91E-06	1.59E-05	8.14E-06	1.62E-05	9.2280E-03
520468.81	4258214.68	45829.01081	0.17829	0.31005	0.18203	0.33023	9.18E-03	7.30E-06	1.11E-05	7.45E-06	1.13E-05	9.2151E-03
520514.31	4258264.19	45815.97619	0.16931	0.24849	0.1693	0.26231	9.18E-03	6.93E-06	8.89E-06	6.93E-06	9.01E-06	9.2070E-03
520295.72	4258212.99	45797.56087	0.2291	0.87051	0.23807	0.95125	9.17E-03	9.38E-06	3.11E-05	9.75E-06	3.27E-05	9.2545E-03
520033.66	4258917.87	45793.77192	3.66725	0.40789	4.82587	0.39779	9.17E-03	1.50E-04	1.46E-05	1.98E-04	1.37E-05	9.5468E-03
520395.39	4259012.77	45779.07468	0.45581	0.14707	0.43339	0.15625	9.17E-03	1.87E-05	5.26E-06	1.77E-05	5.36E-06	9.2149E-03
520167.72	4259043.15	45766.30067	2.78795	0.28291	2.51791	0.27243	9.17E-03	1.14E-04	1.01E-05	1.03E-04	9.35E-06	9.4020E-03
520560.37	4258742.27	45757.36632	0.1964	0.1507	0.18818	0.15691	9.16E-03	8.04E-06	5.39E-06	7.70E-06	5.39E-06	9.1901E-03
520491.16	4258803.07	45744.36247	0.27911	0.14155	0.26696	0.14869	9.16E-03	1.14E-05	5.06E-06	1.09E-05	5.10E-06	9.1935E-03
520548.62	4258427.92	45710.73578	0.17547	0.19859	0.17301	0.2091	9.15E-03	7.18E-06	7.10E-06	7.08E-06	7.18E-06	9.1827E-03
520364.31	4258193.21	45708.89872	0.20384	0.55731	0.20908	0.59786	9.15E-03	8.35E-06	1.99E-05	8.56E-06	2.05E-05	9.2112E-03
519992.8	4258745.07	45699.97222	1.27081	0.82979	1.51444	0.78351	9.15E-03	5.20E-05	2.97E-05	6.20E-05	2.69E-05	9.3227E-03
520345.94	4259042.85	45697.00917	0.60588	0.15677	0.57421	0.16792	9.15E-03	2.48E-05	5.61E-06	2.35E-05	5.76E-06	9.2111E-03
520549.18	4258403.52	45699.69264	0.17265	0.20086	0.17057	0.21161	9.15E-03	7.07E-06	7.18E-06	6.98E-06	7.26E-06	9.1799E-03
520158.62	4259039.39	45695.80986	3.18126	0.2923	2.85178	0.27891	9.15E-03	1.30E-04	1.05E-05	1.17E-04	9.58E-06	9.4183E-03
520154.54	4258863.37	45678.13895	0.24964	0.1416	0.23924	0.14848	9.15E-03	1.02E-05	5.06E-06	9.80E-06	5.10E-06	9.1778E-03
520365.72	4259032.82	45674.07409	0.53879	0.15194	0.5114	0.16232	9.15E-03	2.21E-05	5.43E-06	2.09E-05	5.57E-06	9.2009E-03
520019.85	4258608.71	45670.31437	1.11387	2.47692	1.41583	2.13126	9.15E-03	4.56E-05	8.86E-05	5.80E-05	7.32E-05	9.4114E-03
520472.44	4258930.83	45664.24811	0.30555	0.14188	0.29138	0.14907	9.14E-03	1.25E-05	5.07E-06	1.19E-05	5.12E-06	9.1795E-03
520413.25	4258193.36	45629.97083	0.19049	0.41995	0.19598	0.44729	9.14E-03	7.80E-06	1.50E-05	8.02E-06	1.54E-05	9.1842E-03
520149.51	4259035.63	45561.67673	1.68193	0.30123	1.27054	0.285	9.12E-03	1.51E-04	1.08E-05	1.34E-04	9.78E-06	9.4296E-03
520048.72	4258944.07	45560.65093	5.72072	0.38382	8.82508	0.37039	9.12E-03	2.34E-04	1.37E-05	3.61E-04	1.27E-05	9.7462E-03
520495.44	4258236.09	45540.7672	0.1724	0.27141	0.17422	0.28824	9.12E-03	7.06E-06	9.71E-06	7.13E-06	9.90E-06	9.1540E-03
520197.65	4258272.69	45539.25315	0.28033	2.09386	0.29581	2.35472	9.12E-03	1.15E-05	7.49E-05	1.21E-05	8.08E-05	9.2992E-03
520058.88	4258958.25	45528.20491	8.27544	0.37379	17.55904	0.35757	9.12E-03	3.39E-04	1.34E-05	7.19E-04	1.23E-05	1.0201E-02
520421.37	4258992.01	45522.12071	0.39654	0.1442	0.37745	0.15234	9.12E-03	1.62E-05	5.16E-06	1.55E-05	5.23E-06	9.1585E-03
520546.89	4258358.24	45478.4513	0.16852	0.20764	0.1678	0.21894	9.11E-03	6.90E-06	7.43E-06	6.87E-06	7.52E-06	9.1364E-03
520187.54	4259053.12	45448.93292	2.18082	0.26107	1.99417	0.25646	9.10E-03	8.93E-05	9.34E-06	8.16E-05	8.80E-06	9.2909E-03
520236.9	4258242.81	45440.3477	0.25628	1.40316	0.27098	1.55962	9.10E-03	1.05E-05	5.02E-05	1.11E-05	5.35E-05	9.2254E-03
520006.5	4258856.69	45411.40276	1.95821	0.49253	2.33648	0.48151	9.09E-03	8.02E-05	1.76E-05	9.57E-05	1.65E-05	9.3042E-03
520548.28	4258368.85	45400.27747	0.16917	0.20517	0.16807	0.21644	9.09E-03	6.93E-06	7.34E-06	6.88E-06	7.43E-06	9.1206E-03
520439.01	4258974.7	45392.93424	0.36184	0.14299	0.34451	0.15049	9.09E-03	1.48E-05	5.11E-06	1.41E-05	5.17E-06	9.1298E-03
520140.41	4259031.87	45381.68064	4.32278	0.30943	3.80084	0.2906	9.09E-03	1.77E-04	1.11E-05	1.56E-04	9.98E-06	9.4420E-03
520354.52	4258193.18	45368.34963	0.20619	0.59177	0.2116	0.63616	9.09E-03	8.44E-06	2.12E-05	8.66E-06	2.18E-05	9.1457E-03
520545.69	4258347.72	45361.24917	0.16776	0.21004	0.16732	0.22125	9.08E-03	6.87E-06	7.51E-06	6.85E-06	7.60E-06	9.1130E-03
520477.56	4258218.42	45354.10667	0.17583	0.29705	0.17916	0.31604	9.08E-03	7.20E-06	1.06E-05	7.34E-06	1.08E-05	9.1188E-03
520529.37	4258290.66	45335.04669	0.16691	0.232	0.16636	0.24348	9.08E-03	6.83E-06	8.30E-06	6.81E-06	8.36E-06	9.1093E-03
520423.04	4258193.39	45311.48642	0.18763	0.39797	0.19305	0.42365	9.07E-03	7.68E-06	1.42E-05	7.90E-06	1.45E-05	9.1186E-03
520326.15	4259052.89	45291.08203	0.68524	0.16272	0.64852	0.17422	9.07E-03	2.81E-05	5.82E-06	2.66E-05	5.98E-06	9.1366E-03
520000.87	4258836.88	45281.99286	1.73243	0.53087	2.04649	0.51718	9.07E-03	7.09E-05	1.90E-05	8.38E-05	1.78E-05	9.2598E-03
520463.38	4258944.59	45269.0306	0.31931	0.14182	0.30423	0.14897	9.07E-03	1.31E-05	5.07E-06	1.25E-05	5.11E-06	9.1015E-03
520315.33	4258203.05	45245.27783	0.21974	0.76033	0.22713	0.8261	9.06E-03	9.00E-06	2.72E-05	9.30E-06	2.84E-05	9.1348E-03
520385.51	4259022.79	45226.50174	0.48152	0.14764	0.45758	0.15716	9.06E-03	1.97E-05	5.28E-06	1.87E-05	5.40E-06	9.1064E-03
520105.74	4259007.57	45214.51213	0.63853	0.33933	0.21902	0.31528	9.05E-03	3.95E-04	1.21E-05	3.37E-04	1.08E-05	9.8088E-03
520029.73	4258579.58	45184.57512	1.06684	3.50678	1.37951	2.85376	9.05E-03	4.37E-05	1.25E-04	5.65E-05	9.80E-05	9.3724E-03
519993.75	4258795.6	45176.53091	1.44047	0.63512	1.69834	0.61177	9.05E-03	5.90E-05	2.27E-05	6.95E-05	2.10E-05	9.2195E-03
520404	4259009.21	45160.43639	0.43514	0.14507	0.4138	0.15391	9.04E-03	1.78E-05	5.19E-06	1.69E-05	5.28E-06	9.0892E-03
520023.37	4258903.63	45059.07353	2.85401	0.4206	3.56423	0.41203	9.02E-03	1.17E-04	1.50E-05	1.46E-04	1.41E-05	9.3157E-03
520563.87	4258733.92	45041.99074	0.19299	0.15063	0.18493	0.15697	9.02E-03	7.90E-06	5.39E-06	7.57E-06	5.39E-06	9.0465E-03
520207.47	4258262.72	45033.68652	0.27188	1.88042	0.28734	2.10766	9.02E-03	1.11E-05	6.73E-05	1.18E-05	7.24E-05	9.1811E-03
520544.65	4258337.25	45020.58419	0.16681	0.21269	0.16662	0.22365	9.02E-03	6.83E-06	7.61E-06	6.82E-06	7.68E-06	9.0449E-03
520109.24	4258372.41	45004.95271	0.37893	9.90479	0.3978	11.75688	9.01E-03	1.55E-05	3.54E-04	1.63E-05	4.04E-04	9.8026E-03
520131.3	4259028.12	44985.50449	5.15428	0.31622	4.48208	0.29531	9.01E-03	2.11E-04	1.13E-05	1.84E-04	1.01E-05	9.4250E-03
520524.28	4258849.33	44981.84535	0.23865	0.14123	0.22887	0.14782	9.01E-03	9.77E-06	5.05E-06	9.37E-06	5.07E-06	9.0375E-03
520542.9	4258807.93	44962.77372	0.21759	0.14362	0.20868	0.14973	9.00E-03	8.91E-06	5.14E-06	8.54E-06	5.14E-06	9.0321E-03
520432.83	4258193.42	44904.78968	0.18473	0.37747	0.19	0.40172	8.99E-03	7.56E-06	1.35E-05	7.78E-06	1.38E-05	9.0354E-03
520539.96	4258315.22	44883.51872	0.16597	0.2195	0.16564	0.23033	8.99E-03	6.80E-06	7.85E-06	6.78E-06	7.91E-06	9.0179E-03
520008.7	4258867.38	44879.44107	2.04235	0.47184	2.44132	0.46199	8.99E-03	8.36E-05	1.69E-05	1.00E-04	1.59E-05	9.2040E-03
520266.33	4258222.9	44875.75463	0.23967	1.09058	0.2517	1.20223	8.99E-03	9.81E-06	3.90E-05	1.03E-05	4.13E-05	9.0874E-03
520344.73	4258193.15	44861.69872	0.20831	0.62937	0.21413	0.67781	8.98E-03	8.53E-06	2.25E-05	8.77E-06	2.33E-05	9.0472E-03
520007.12	4258646.05	44860.43692	1.11586	1.67301	1.37777	1.50099	8.98E-03	4.57E-05	5.98E-05	5.64E-05	5.15E-05	9.1974E-03
520454.48	4258958.28	44854.61793	0.33401	0.14163	0.31808	0.14881	8.98E-03	1.37E-05	5.07E-06	1.30E-05	5.11E-06	9.0196E-03
520486.3	4258222.16	44823.73124	0.17335	0.2846	0.17616	0.3026	8.98E-03	7.10E-06	1.02E-05	7.21E-06	1.04E-05	9.0114E-03
520285.94	4258212.96	44789.15551	0.23062	0.93715	0.24072	1.02678	8.97E-03	9.44E-06	3.35E-05	9.86E-06	3.53E-05	9.0577E-03
520355.84	4259042.84	44786.3403	0.57106	0.15272	0.54142	0.16344	8.97E-03	2.34E-05	5.46E-06	2.22E-05	5.61E-06	9.0257E-03
520504.21	4258887.66	44753.37941	0.26275	0.14006	0.25159	0.14704	8.96E-03	1.08E-05	5.01E-06	1.03E-05	5.05E-06	8.9936E-03
520549.83	4258791.4	44733.7599	0.21007	0.1449	0.20152	0.15081	8.96E-03	8.60E-06	5.18E-06	8.25E-06	5.18E-06	8.9858E-03
520177.64	4259053.13	44725.51135	2.45632	0.26864	2.23365	0.26103	8.96E-03	1.01E-04	9.61E-06	9.15E-05	8.96E-06	9.1675E-03
520567.77	4258700.65	44719.77513	0.18676	0.15475	0.17924	0.16145	8.96E-03	7.65E-06	5.54E-06	7.34E-06	5.54E-06	8.9818E-03
519994.67	4258701.35	44712.17524	1.14729	1.0749	1.36884	0.99778	8.95E-03	4.70E-05	3.84E-05	5.60E-05	3.43E-05	9.1299E-03
520513.66	4258253.9	44677.15029	0.16806	0.24971	0.1684	0.26397	8.95E-03	6.88E-06	8.93E-06	6.89E-06	9.06E-06	8.9790E-03
520128.91	4258342.47	44675.79317	0.34212	5.96518	0.35503	7.06255	8.95E-03	1.40E-05	2.13E-04	1.45E-05	2.42E-04	9.4313E-03
520034.84	4258928.34	44637.37277	3.79666	0.39291	5.03889	0.38301	8.94E-03	1.55E-04	1.41E-05	2.06E-04	1.31E-05	9.3282E-03
519997.12	4258827.83	44617.50799	1.60372	0.54803	1.88516	0.53273	8.94E-03	6.57E-05	1.96E-05	7.72E-05	1.83E-05	9.1160E-03
520430.03	4258988.42	44615.53326	0.3793	0.14235	0.36121	0.15012	8.93E-03	1.55E-05	5.09E-06	1.48E-05	5.15E-06	8.9754E-03
520504.25	4258239.86	44596.12301	0.1696	0.26082	0.17088	0.27655	8.93E-03	6.94E-06	9.33E-06	7.00E-06	9.49E-06	8.9637E-03
520096.89	4259003.92	44591.30776	12.66601	0.34126	11.11196	0.31783	8.93E-03	5.19E-04	1.22E-05	4.55E-04	1.09E-05	9.9267E-03
520375.62	4259032.8	44573.51379	0.50916	0.1483	0.48363	0.15818	8.93E-03	2.08E-05	5.30E-06	1.98E-05	5.43E-06	8.9778E-03
520122.19	4259024.36	44549.55333	6.29143	0.32188	5.40753	0.29948	8.92E-03	2.58E-04	1.15E-05	2.21E-04	1.03E-05	9.4225E-03
520246.72	4258232.84	44540.07371	0.24813	1.28698	0.26197	1.42652	8.92E-03	1.02E-05	4.60E-05	1.07E-05	4.90E-05	9.0357E-03
520336.05	4259052.87	44539.78821	0.64364	0.15801	0.60925	0.16928	8.92E-03	2.64E-05	5.65E-06	2.49E-05	5.81E-06	8.9825E-03
520451.29	4258197.17	44513.57769	0.18012	0.34165	0.18481	0.36376	8.92E-03	7.37E-06	1.22E-05	7.57E-06	1.25E-05	8.9561E-03
520459.97	4258200.88	44475.11007	0.17823	0.32601	0.18256	0.34716	8.91E-03	7.30E-06	1.17E-05	7.

520345.95	4259052.85	43829.11067	0.60591	0.15375	0.57379	0.16471	8.78E-03	2.48E-05	5.50E-06	2.35E-05	5.65E-06	8.8368E-03
520523.06	4258859.84	43824.55305	0.2408	0.13931	0.23094	0.1459	8.78E-03	9.86E-06	4.98E-06	9.46E-06	5.01E-06	8.8058E-03
520365.74	4259042.82	43811.23539	0.53892	0.149	0.51142	0.15925	8.77E-03	2.21E-05	5.33E-06	2.09E-05	5.47E-06	8.8278E-03
520039.6	4258550.44	43811.13413	0.96424	5.12003	1.19247	1.93106	8.77E-03	3.95E-05	1.83E-04	4.88E-05	1.35E-04	9.1802E-03
519993.37	4258818.79	43805.35337	1.48408	0.56592	1.73957	0.54863	8.77E-03	6.08E-05	2.02E-05	7.12E-05	1.88E-05	8.9437E-03
520325.15	4258193.08	43769.52347	0.21253	0.71466	0.21945	0.77402	8.77E-03	8.70E-06	2.56E-05	8.99E-06	2.66E-05	8.8353E-03
520413.28	4258183.36	43764.81041	0.18714	0.42247	0.19241	0.44939	8.76E-03	7.66E-06	1.51E-05	7.88E-06	1.54E-05	8.8106E-03
520149.67	4259045.69	43760.08544	3.67367	0.2926	3.2681	0.27664	8.76E-03	1.50E-04	1.05E-05	1.34E-04	9.50E-06	9.0677E-03
520227.11	4258242.78	43729.61364	0.25556	1.54428	0.2704	1.7198	8.76E-03	1.05E-05	5.52E-05	1.11E-05	5.90E-05	8.8933E-03
520553.38	4258388.69	43717.67121	0.16885	0.19823	0.16697	0.20901	8.76E-03	6.91E-06	7.09E-06	6.84E-06	7.18E-06	8.7831E-03
520276.15	4258212.93	43713.40859	0.23183	1.01184	0.24305	1.11154	8.75E-03	9.49E-06	3.62E-05	9.95E-06	3.82E-05	8.8480E-03
520421.21	4259002.08	43701.05373	0.3975	0.14136	0.37836	0.14948	8.75E-03	1.63E-05	5.06E-06	1.55E-05	5.13E-06	8.7937E-03
520462.93	4258954.79	43648.58865	0.32087	0.13958	0.30576	0.14657	8.74E-03	1.31E-05	4.99E-06	1.25E-05	5.03E-06	8.7769E-03
520140.63	4259041.96	43639.77713	4.30205	0.30032	3.79211	0.28193	8.74E-03	1.76E-04	1.07E-05	1.55E-04	9.68E-06	9.0913E-03
520438.7	4258984.83	43633.34527	0.36311	0.1404	0.34583	0.14784	8.74E-03	1.49E-05	5.02E-06	1.42E-05	5.08E-06	8.7778E-03
520364.34	4258183.21	43617.12571	0.19948	0.56021	0.20468	0.60043	8.73E-03	8.17E-06	2.00E-05	8.38E-06	2.06E-05	8.7921E-03
520256.54	4258222.87	43583.90698	0.24027	1.18531	0.25327	1.30989	8.73E-03	9.84E-06	4.24E-05	1.04E-05	4.50E-05	8.8358E-03
520295.75	4258202.99	43559.71203	0.22317	0.8744	0.23249	0.95532	8.72E-03	9.14E-06	3.13E-05	9.52E-06	3.28E-05	8.8062E-03
519989.13	4258736.23	43544.73491	1.16242	0.85495	1.37544	0.80413	8.72E-03	4.76E-05	3.06E-05	5.63E-05	2.76E-05	8.8825E-03
520513.07	4258243.63	43517.16072	0.16675	0.25098	0.16752	0.26562	8.71E-03	6.83E-06	8.98E-06	6.86E-06	9.12E-06	8.7407E-03
520423.07	4258183.39	43504.38046	0.18447	0.40037	0.18974	0.42563	8.71E-03	7.55E-06	1.43E-05	7.77E-06	1.46E-05	8.7566E-03
520563.68	4258758.32	43490.76792	0.19584	0.14633	0.18772	0.15212	8.71E-03	8.02E-06	5.23E-06	7.69E-06	5.22E-06	8.7358E-03
520571.31	4258692.22	43481.18206	0.1836	0.15467	0.17627	0.16124	8.71E-03	7.52E-06	5.53E-06	7.22E-06	5.54E-06	8.7335E-03
520538.06	4258294.38	43469.89892	0.16384	0.22374	0.16333	0.23448	8.71E-03	6.71E-06	8.00E-06	6.69E-06	8.05E-06	8.7349E-03
520119.09	4258352.44	43452.12641	0.35001	7.52194	0.36431	8.97237	8.70E-03	1.43E-05	2.69E-04	1.49E-05	3.08E-04	9.3082E-03
520103.98	4259016.84	43449.68644	10.19813	0.32883	8.70507	0.30578	8.70E-03	4.18E-04	1.18E-05	3.56E-04	1.05E-05	9.4976E-03
520168.22	4258292.6	43443.60929	0.29304	3.04177	0.30519	3.46802	8.70E-03	1.20E-05	1.09E-04	1.25E-05	1.19E-04	8.9525E-03
520178.04	4258282.63	43409.91815	0.28509	2.66505	0.29794	3.02255	8.69E-03	1.17E-05	9.53E-05	1.22E-05	1.04E-04	8.9164E-03
520385.52	4259032.79	43389.79048	0.48183	0.14473	0.4578	0.15416	8.69E-03	1.97E-05	5.18E-06	1.87E-05	5.29E-06	8.7383E-03
520486.01	4258212.02	43365.98544	0.17151	0.2863	0.17468	0.30431	8.68E-03	7.02E-06	1.02E-05	7.15E-06	1.04E-05	8.7195E-03
520403.96	4259019.23	43344.44813	0.43569	0.14225	0.41439	0.151	8.68E-03	1.78E-05	5.09E-06	1.70E-05	5.18E-06	8.7254E-03
520522.55	4258257.7	43325.5833	0.16507	0.2406	0.16503	0.25375	8.68E-03	6.76E-06	8.61E-06	6.76E-06	8.71E-06	8.7074E-03
520158.4	4258302.56	43304.74833	0.30099	3.51223	0.31246	4.0294	8.67E-03	1.23E-05	1.26E-04	1.28E-05	1.38E-04	8.9614E-03
520503.79	4258229.65	43304.1313	0.16811	0.26235	0.16986	0.27829	8.67E-03	6.88E-06	9.38E-06	6.95E-06	9.55E-06	8.7050E-03
520551.62	4258461.66	43289.0779	0.17697	0.19239	0.17382	0.20277	8.67E-03	7.25E-06	6.88E-06	7.12E-06	6.96E-06	8.6974E-03
520354.55	4258183.18	43276.10992	0.20167	0.59467	0.20714	0.63881	8.67E-03	8.26E-06	2.13E-05	8.48E-06	2.19E-05	8.7266E-03
520131.6	4259038.23	43256.93824	5.11861	0.3065	4.46134	0.28625	8.66E-03	2.10E-04	1.10E-05	1.83E-04	9.83E-06	9.0758E-03
520187.86	4258272.66	43191.60023	0.2771	2.35838	0.29065	2.66042	8.65E-03	1.13E-05	8.44E-05	1.19E-05	9.13E-05	8.8486E-03
520432.86	4258183.42	43144.68326	0.18174	0.37977	0.18694	0.40356	8.64E-03	7.44E-06	1.36E-05	7.65E-06	1.39E-05	8.6828E-03
520014.36	4258899.91	43114.96265	2.35795	0.41779	2.8591	0.4102	8.63E-03	9.65E-05	1.49E-05	1.17E-04	1.41E-05	8.8770E-03
520512.6	4258884.19	43102.44892	0.25341	0.13784	0.24291	0.14459	8.63E-03	1.04E-05	4.93E-06	9.95E-06	4.96E-06	8.6621E-03
520315.36	4258193.05	43070.07569	0.21436	0.76376	0.2221	0.82846	8.63E-03	8.78E-06	2.73E-05	9.09E-06	2.85E-05	8.6990E-03
520532.88	4258845.77	43068.62452	0.23023	0.13902	0.22099	0.14531	8.63E-03	9.43E-06	4.97E-06	9.05E-06	4.99E-06	8.6535E-03
520025.98	4258924.69	43026.58045	3.05766	0.38975	3.86782	0.38172	8.62E-03	1.25E-04	1.39E-05	1.58E-04	1.31E-05	8.9273E-03
520236.93	4258232.81	43020.85899	0.24786	1.40969	0.26208	1.56622	8.62E-03	1.01E-05	5.04E-05	1.07E-05	5.38E-05	8.7406E-03
520456.47	4258967.47	42981.15873	0.3319	0.1388	0.31622	0.14579	8.61E-03	1.36E-05	4.96E-06	1.29E-05	5.01E-06	8.6441E-03
520355.85	4259052.84	42973.71176	0.57108	0.14983	0.54124	0.1604	8.61E-03	2.34E-05	5.36E-06	2.22E-05	5.51E-06	8.6625E-03
520148.58	4258312.53	42939.95114	0.30883	4.11485	0.31988	4.74919	8.60E-03	1.26E-05	1.47E-04	1.31E-05	1.63E-04	8.9353E-03
520555.67	4258420.56	42930.4835	0.17117	0.19441	0.16873	0.20451	8.60E-03	7.01E-06	6.95E-06	6.91E-06	7.02E-06	8.6253E-03
520050.82	4258964.92	42918.25962	6.17462	0.35739	9.85291	0.34453	8.59E-03	2.53E-04	1.28E-05	4.03E-04	1.18E-05	9.2758E-03
520451.62	4258187.29	42887.1976	0.17746	0.34303	0.18221	0.3648	8.59E-03	7.27E-06	1.23E-05	7.46E-06	1.25E-05	8.6283E-03
520040.75	4258950.77	42884.96843	4.4938	0.36681	6.24023	0.35632	8.59E-03	1.84E-04	1.31E-05	2.56E-04	1.22E-05	9.0531E-03
520460.6	4258191.14	42880.82189	0.17568	0.32669	0.18011	0.34756	8.59E-03	7.19E-06	1.17E-05	7.37E-06	1.19E-05	8.6257E-03
520197.68	4258262.69	42878.35119	0.26929	2.10351	0.28329	2.3634	8.59E-03	1.10E-05	7.52E-05	1.16E-05	8.11E-05	8.7660E-03
520429.81	4258998.52	42864.16567	0.38036	0.1396	0.36225	0.14735	8.58E-03	1.56E-05	4.99E-06	1.48E-05	5.06E-06	8.6246E-03
519989.62	4258809.75	42855.98699	1.37431	0.58419	1.6053	0.56469	8.58E-03	5.63E-05	2.09E-05	6.57E-05	1.94E-05	8.7448E-03
519997.12	4258673.87	42822.60632	1.06341	1.28263	1.28075	1.17508	8.58E-03	4.35E-05	4.59E-05	5.24E-05	4.03E-05	8.7580E-03
520489.59	4258923.74	42820.33751	0.28263	0.13765	0.2703	0.14447	8.58E-03	1.16E-05	4.92E-06	1.11E-05	4.96E-06	8.6079E-03
520094.88	4259013.08	42814.87941	13.46122	0.33011	12.04709	0.30797	8.57E-03	5.51E-04	1.18E-05	4.93E-04	1.06E-05	9.6411E-03
520344.76	4258183.15	42806.24584	0.20368	0.6322	0.20962	0.6806	8.57E-03	8.34E-06	2.26E-05	8.58E-06	2.34E-05	8.6354E-03
520122.56	4259034.5	42786.73089	6.20198	0.31142	5.35437	0.28993	8.57E-03	2.54E-04	1.11E-05	2.19E-04	9.95E-06	9.0627E-03
520494.68	4258215.74	42778.1914	0.1691	0.27465	0.17178	0.29171	8.57E-03	6.92E-06	9.82E-06	7.03E-06	1.00E-05	8.6007E-03
520375.64	4259042.8	42771.97732	0.50931	0.14539	0.48363	0.15517	8.57E-03	2.09E-05	5.20E-06	1.98E-05	5.33E-06	8.6169E-03
520480.39	4258937.55	42769.17886	0.29543	0.13779	0.28215	0.14462	8.57E-03	1.21E-05	4.93E-06	1.16E-05	4.96E-06	8.5987E-03
520537.26	4258284.03	42731.80778	0.16279	0.22529	0.16218	0.23625	8.56E-03	6.67E-06	8.06E-06	6.64E-06	8.11E-06	8.5871E-03
520532.26	4258271.87	42703.26947	0.16313	0.23068	0.16263	0.24235	8.55E-03	6.68E-06	8.25E-06	6.66E-06	8.32E-06	8.5818E-03
520060.67	4258978.98	42702.92462	8.9141	0.34835	17.06479	0.33305	8.55E-03	3.65E-04	1.25E-05	6.99E-04	1.14E-05	9.6394E-03
520099.42	4258382.38	42695.03816	0.38577	14.08928	0.40806	16.00012	8.55E-03	1.58E-05	5.04E-04	1.67E-05	5.49E-04	9.6360E-03
520009.93	4258628.15	42693.51905	1.04484	1.90931	1.29384	1.69202	8.55E-03	4.28E-05	6.83E-05	5.30E-05	5.81E-05	8.7721E-03
520412.51	4259015.69	42692.72657	0.41648	0.19607	0.41428	0.39607	8.54E-03	1.71E-05	5.02E-06	1.62E-05	5.11E-06	8.5932E-03
520498.98	4258909.84	42685.49962	0.2704	0.13723	0.25879	0.14404	8.55E-03	1.11E-05	4.91E-06	1.06E-05	4.95E-06	8.5799E-03
520469.58	4258194.98	42684.93567	0.17366	0.31191	0.17779	0.33175	8.55E-03	7.11E-06	1.12E-05	7.28E-06	1.14E-05	8.5852E-03
520442.65	4258183.45	42682.331	0.17893	0.36057	0.184	0.38304	8.55E-03	7.33E-06	1.29E-05	7.53E-06	1.32E-05	8.5886E-03
520556.86	4258397.81	42672.93957	0.16836	0.19564	0.16624	0.20509	8.55E-03	6.89E-06	7.00E-06	6.81E-06	7.07E-06	8.5736E-03
520554.31	4258351.4	42656.17471	0.16439	0.2027	0.16371	0.2135	8.54E-03	6.73E-06	7.25E-06	6.70E-06	7.33E-06	8.5705E-03
520007.12	4258636.77	42655.40538	1.04702	1.75721	1.28953	1.56951	8.54E-03	4.29E-05	6.29E-05	5.28E-05	5.39E-05	8.7545E-03
520521.97	4258870.3	42651.57735	0.24278	0.13739	0.23282	0.14396	8.54E-03	9.94E-06	4.91E-06	9.53E-06	4.94E-06	8.5709E-03
519986.58	4258778.3	42608.06108	1.23437	0.67572	1.44379	0.64625	8.53E-03	5.05E-05	2.42E-05	5.91E-05	2.22E-05	8.6889E-03
520447.36	4258881.24	42600.01479	0.34785	0.13846	0.33141	0.14561	8.53E-03	1.42E-05	4.95E-06	1.36E-05	5.00E-06	8.5690E-03
520285.97	4258202.96	42597.55318	0.22447	0.94128	0.23486	1.03107	8.53E-03	9.19E-06	3.37E-05	9.62E-06	3.54E-05	8.6186E-03
520548.83	4258319.02	42587.4077	0.16273	0.21149	0.16246	0.22188	8.53E-03	6.66E-06	7.56E-06	6.65E-06	7.62E-06	8.5572E-03
520555.61	4258361.97	42585.58433	0.16504	0.20039	0.16401	0.2112	8.53E-03	6.76E-06	7.17E-06	6.72E-06	7.25E-06	8.5562E-03
520030.43	4258936.52	42563.13077	3.41153	0.37685	4.41023	0.36838	8.52E-03	1.40E-04	1.35E-05	1.81E-04	1.26E-05	8.8702E-03
520266.36	4258212.9	42559.53769	0.23263	1.09594	0.24486	1.20692	8.52E-03	9.52E-06	3.92E-05	1.00E-05	4.14E-05	8.6233E-03
520471.38	4258951.29	42555.8058	0.30868	0.13763	0.29443	0.14446	8.52E-03	1.26E-05	4.92E-06	1.21E-05	4.96E-06	8.5570E-03
520553.17	4258340.9	42523.12538	0.16359	0.20512	0.16321	0.21576	8.52E-03	6.70E-06	7.34E-06	6.68E-06	7.41E-06	8.5440E-03
519999.34	4258863.73	42491.90552	1.73319	0.46913	2.03908	0.459	8.51E-03	7.10E-05	1.68E-05	8.35E-05	1.58E-05	8.6966E-03
520207.5	4258252.72	42483.30854	0.26168	1.88899	0.27586	2.11581	8.51E-03	1.07E-05	6.76E-05	1.13E-05	7.26E-05	8.6701E-03
520019.81	4258599.01	42460.31741	1.02424	2.57719	1.2939	2.2103	8.50E-03	4.19E-05	9.22E-05	5.30E-05	7.59E-05	8.7662E-03
520138.76	4258322.5	42417.4221	0.31668	4.90542	0.32754	5.71974	8.49E-03	1.30E-05	1.75E-04	1.34E-05	1.96E-04	8.8929E-03
520508.59	4258895.85	42409.62596	0.25861	0.13677	0.24776	0.14351	8.49E-03	1.06E-05	4.89E-06	1.01E-05	4.93E-06	8.5237E-03
520570.6	4258741.78	42391.0287	0.18923	0.14637	0.18133	0.15236	8.49E-03	7.75E-06	5.24E-06	7.42E-06	5.23E-06	8.5150E-03
519986.12	4258753.09	42361.63704	1.1516	0.76942	1.35706	0.72804	8.48E-03	4.72E-05	5.56E-05	2.75E-05	2.50E-05	8.6387E-03
520478.56	4258198.82	42353.21008	0.17149	0.29818	0.17526	0.31701	8.48E-03	7.02E-06	1.07E-05	7.18E-06	1.09E-05	8.5176E-03
520113.52	4259030.77	42344.27309	7.76523	0.31542	6.63683	0.29323	8.48E-03	3.18E-04	1.13E-05	2.72E-04	1.01E-05	9.0910E-03
520574.35	4258708.88	42337.91911	0.18333	0.1504	0.17593	0.15686	8.48E-03	7.51E-06	5.38E-06	7.20E-06	5.39E-06	8.5042E-03
520512.53	4258233.39	42336.45448	0.16538	0.25243	0.16663	0.26733	8.48E-03	6.77E-06	9.03E-06	6.82E-06	9.18E-06	8.5103E-03
520521.88	4258247.4	42314.15139	0.16389	0.2418	0.16421	0.25537	8.47E-03	6.71E-06	8.65E-06	6.72E-06	8.77E-06	8.5048E-03
519993.85	4258844.06	42314.04217	1.54587	0.50425	1.80564	0.49156	8.47E-03	6.33E-05	1.80E-05	7.39E-05	1.69E-05	8.6461E-03
520334.97	4258183.12	42312.66726	0.20569	0.67299	0.21219	0.72656	8.47E-03	8.42E-06	2.41E-05	8.69E-06	2.49E-05	8.5398E-03
520305.57	4258193.02	42297.16935	0.21599	0.818	0.22466	0.89083	8.47E-03	8.84E-06	2.93E-05	9.20E-06	3.06E-05	8.5485E-03
520015.81	4258910.5	42288.20087	2.44266	0.40196	2.9759	0.3948	8.47E-03	1.00E-04	1.44E-05	1.22E-04	1.36E-05	8.7186E-03
520246.75	4258222.84	42204.82442	0.2403	1.29311	0.2539	1.43219	8.45E-03	9.84E-06	4.63E-05	1.04E-05	4.92E-05	8.5677E-03
520547.73	4258308.53	42196.52638	0.16188	0.21354	0.16145	0.22385	8.45E-03	6.63E-06	7.64E-06	6.61E-06	7.68E-06	8.4790E-03
520393.73	4258173.3	42195.00555	0.18869	0.47401	0.19356	0.50494	8.45E-03	7.73E-06	1.70E-05	7.93E-06	1.73E-05	8.5001E-03
520085.77	4259009.33	42173.64889	15.97974	0.33019	18.86667	0.30964	8.45E-03	6.54E-04	1.18E-05	7.72E-04	1.06E-05	9.8950E-03
520403.52	4258173.33	42151.86957	0.18629	0.44855	0.19124	0.47713	8.44E-03	7.63E-06	1.60E-05	7.83E-06	1.64E-05	8.4894E-03
520395.42	4259032.77	42151.31641	0.45651	0.14134	0.43396	0.15033	8.44E-03	1.87E-05	5.06E-06	1.78E-05	5.16E-06	8.4881E-03
520383.95	4258173.27	42129.03275	0.19098	0.50137	0.19585	0.53497	8.44E-03	7.82E-06	1.79E-05	8.02E-06	1.84E-05	8.4891E-03
520546.67	4258822.87	42094.27877	0.21601	0.13909	0.20739	0.14501	8.43E-03	8.84E-06	4.98E-06	8.49E-06	4.98E-06	8.4572E-03
520550.31	4258814.19	42064.0913	0.21215	0.13965	0.20366	0.1455	8.42E-03	8.69E-06	5.00E-06	8.34E-06	5.00E-06	8.4509E-03
520503.36	4258219.45	42063.51431	0.1666	0.26375	0.16877	0.27987	8.42E-03	6.82E-06	9.43E-06	6.91E-06	9.61E-06	8.4566E-03
520365.75	4259052.82	42061.92073	0.53894	0.14615	0.51132	0.15628	8.42E-03	2.21E-05	5.23E-06	2.09E-05	5.37E-06	8.4771E-03
520413.31	4258173.36	42061.45411	0.18391	0.42472	0.18889	0.45142	8.42E-03	7.53E-06	1.52E-05	7.73E-06	1.55E-05	8.4691E-03
520531.58	4258856.31	42043.34571	0.23238	0.13716	0.22308	0.14347	8.42E-03	9.51E-06	4.91E-06	9.13E-06	4.93E-06	8.4482E-03
520000.96	4258874.39	42029.99576	1.80198	0.44992	2.12131	0.44095	8.42E-03	7.38E-05	1.61E-05	8.69E-05	1.51E-05	8.6089E-03
520421.05	4259012.15	41986.19263	0.39834	0.13862	0.3792	0.1467	8.41E-03	1.63E-05	4.96E-06	1.55E-05	5.04E-06	8.4501E-03
520553.94	4258805.51	41984.57825	0.20835	0.14018	0.19998	0.14594	8.41E-03	8.53E-06	5.01E-06	8.19E-06	5.01E-06	8.4347E-03
520217.32	4258242.75	41967.98386	0.25416	1.70725	0.26837	1.90579	8.40E-03	1.04E-05	6.11E-05	1.10E-05	6.54E-05	8.5525E-03
520438.41	4258994.96	41964.44888	0.36424	0.13782	0.34705	0.14522	8.40E-03	1.49E-05	4.93E-06	1.42E-05	4.99E-06	8.4430E-03
520374.16	4258173.24	41940.20992	0.19315	0.53091	0.19815	0.56747	8.40E-03	7.91E-06	1.90E-05	8.11E-06	1.95E-05	8.4536E-03
520487.53	4258202.66	41909.89434	0.16921	0.2853	0.17256	0.30316	8.39E-03	6.93E-06	1.02E-05	7.07E-06	1.04E-05	8.4276E-03
520531.44	4258261.51	41899.47847	0.16212	0.23191	0.16175	0.24404	8.39E-03	6.64E-06	8.30E-06	6.62E-06	8.38E-06	8.4209E-03
520423.1	4258173.39	41885.53884	0.18147	0.40244	0.18644	0.42754	8.39E-03	7.43E-06	1.44E-05	7.63E-06	1.47E-05	8.4323E-03
520104.49	4259027.04	41865.32827	10.02281	0.3181	8.56897	0.29597	8.38E-03	4.10E-04	1.14E-05	3.51E-04	1.02E-05	9.1669E-03
520557.58	4258796.83	41847.9946	0.20461	0.14069	0.19636	0.14637	8.38E-03	8.38E-06	5.03E-06	8.04E-06	5.03E-06	8.4071E-03
520109.27	4258362.41	41827.92221	0.35706	9.93389	0.37374	11.78621	8.38E-03	1.46E-05	3.55E-04	1.53E-05	4.05E-04	9.1665E-03
520465.2	4258963.85	41801.94968	0.31839	0.13677	0.30357	0.14356	8.37E-03	1.30E-05	4.89E-06	1.24E-05	4.93E-06	8.4067E-03
519985.87	4258800.71	41765.02319	1.2726	0.60285	1.48146	0.58082	8.36E-03	5.21E-05	2.16E-05	6.07E-05	1.99E-05	8.5183E-03
520003.68	4258885.5	41754.95011	1.90885	0.4322	2.25712	0.4242	8.36E-03	7.82E-05	1.55E-05	9.24E-05	1.46E-05	8.5626E-03
520325.18	4258183.08	41741.42386	0.20756	0.71765	0.21477	0.77708	8.36E-03	8.50E-06	2.57E-05	8.79E-06	2.67E-05	8.4289E-03
520059.4	4258501.87	41712.54558	0.75297	13.19356	0.85982	7.96512	8.35E-03	3.08E-05	4.72E-04	3.52E-05	2.73E-04	9.1649E-03
520574.06	4258733.51	41710.59665	0.18604	0.14633	0.17833	0.15243	8.35E-03	7.62E-06	5.23E-06	7.30E-06	5.23E-06	8.3785E-03
520364.37	4258173.21	41704.0436	0.19531	0.56271	0.20051	0.60286	8.35E-03	8.00E-06	2.01E-05	8.21E-06	2.07E-05	8.4088E-03
520041.83	4258961.21	41693.11792	4.65112	0.35423	6.51307	0.3439	8.35E-03	1.90E-04	1.27E-05	2.67E-04	1.18E-05	8.8312E-03
519990.14	4258835.12	41675.40822	1.43809	0.51958	1.67193	0.50544	8.35E-03	5.89E-05	1.86E-05	6.85E-05	1.74E-05	8.5093E-03
520385.54	4259042.79	41661.38367	0.48198	0.14192	0.4579	0.15125	8.34E-03	1.97E-05	5.08E-06	1.87E-05	5.19E-06	8.3920E-03
520546.76	4258298.1	41630.84835	0.16089	0.21565	0.16036	0.22589	8.34E-03	6.59E-06	7.71E-06	6.57E-06	7.76E-06	8.3658E-03
520051.75	4258975.3	41630.7529	6.39395	0.34525	10.37462	0.33269	8.34E-03	2.62E-04	1.23E-05	4.25E-04	1.14E-05	9.0475E-03
520403.92	4259029.25	41627.70588	0.43614	0.13949	0.41484	0.14816	8.34E-03	1.79E-05	4.99E-06	1.70E-05	5.09E-06	8.3814E-03
520561.21	4258788.15	41625.82791	0.20089	0.14107	0.19273	0.14668	8.34E-03	8.23E-06	5.05E-06	7.89E-06	5.04E-06	8.3623E-03
520554.95	4258470.43	41620.72111	0.17588	0.18906	0.1724	0.19929	8.34E-03	7.20E-06	6.76E-06	7.06E-06	6.84E-06	8.3630E-03
519988.27	4258710.04	41583.77319	1.05141	0.97989	1.24161	0.91295	8.33E-03	4.30E-05	3.50E-05	5.08E-05	3.13E-05	8.4880E-03
520276.18	4258202.93	41559.35072	0.22541	1.01631	0.23682	1.11599	8.32E-03	9.23E-06	3.64E-05	9.70E-06	3.83E-05	8.4164E-03
520432.89	4258173.42	41556.72296	0.17887	0.38178	0.18386	0.40534	8.32E-03	7.32E-06	1.37E-05	7.53E-06	1.39E-05	8.3647E-03
520456.03	4258977.66	41518.47371	0.33344	0.13653	0.31784	0.14341	8.31E-03	1.37E-05	4.88E-06	1.30E-05	4.92E-06	8.3511E-03
520520.98	4258880.72	41495.82151	0.24456	0.13666	0.23464	0.14217	8.31E-03	1.00E-05	4.85E-06	9.61E-06	4.88E-06	8.3395E-03
520558.91	4258429.07	41491.55093	0.17037	0.19119	0.16776	0.20106	8.31E-03	6.98E-06	6.84E

520049.48	4258521.31	40959.43353	0.81503	7.72475	0.95063	5.52178	8.20E-03	3.34E-05	2.76E-04	3.89E-05	1.90E-04	8.7409E-03
519986.43	4258826.18	40911.2484	1.33766	0.53542	1.54972	0.51958	8.19E-03	5.48E-05	1.92E-05	6.35E-05	1.78E-05	8.3482E-03
520344.79	4258173.15	40898.93969	0.19921	0.63476	0.20533	0.68323	8.19E-03	8.16E-06	2.27E-05	8.41E-06	2.35E-05	8.2533E-03
520517.31	4258892.25	40821.45872	0.24915	0.13452	0.23895	0.14103	8.18E-03	1.02E-05	4.81E-06	9.78E-06	4.84E-06	8.2047E-03
520178.07	4258272.63	40807.29882	0.27305	2.67629	0.28428	3.03088	8.17E-03	1.12E-05	9.57E-05	1.16E-05	1.04E-04	8.3948E-03
520168.25	4258282.6	40803.04554	0.28023	3.05343	0.29067	3.47826	8.17E-03	1.15E-05	1.09E-04	1.19E-05	1.19E-04	8.4234E-03
520236.96	4258222.81	40745.51455	0.23971	1.41635	0.2534	1.5719	8.16E-03	9.81E-06	5.07E-05	1.04E-05	5.40E-05	8.2847E-03
520086.42	4259019.59	40713.91338	15.69544	0.31936	18.13915	0.29961	8.15E-03	6.43E-04	1.14E-05	7.43E-04	1.03E-05	9.5606E-03
520187.89	4258262.66	40680.51168	0.26592	2.36821	0.27788	2.66899	8.15E-03	1.09E-05	8.47E-05	1.14E-05	9.16E-05	8.3454E-03
520572.12	4258762.1	40668.39576	0.19034	0.14216	0.18249	0.14769	8.14E-03	7.79E-06	5.08E-06	7.47E-06	5.07E-06	8.1698E-03
520158.43	4258292.56	40618.27312	0.28732	3.52511	0.29711	4.04013	8.13E-03	1.18E-05	1.26E-04	1.22E-05	1.39E-04	8.4231E-03
520505.49	4258210.35	40612.49689	0.1643	0.26225	0.16675	0.27815	8.13E-03	6.73E-06	9.38E-06	6.83E-06	9.55E-06	8.1657E-03
520487.21	4258192.51	40605.42822	0.16736	0.2869	0.17095	0.30475	8.13E-03	6.85E-06	1.03E-05	7.00E-06	1.05E-05	8.1664E-03
519982.12	4258791.66	40535.44661	1.17812	0.62175	1.36659	0.59687	8.12E-03	4.82E-05	2.22E-05	5.60E-05	2.05E-05	8.2647E-03
520286	4258192.96	40528.44019	0.21845	0.94539	0.22912	1.03491	8.12E-03	8.94E-06	3.38E-05	9.38E-06	3.55E-05	8.2040E-03
520042.84	4258971.62	40515.78958	4.8046	0.34232	6.78364	0.32317	8.11E-03	1.97E-04	1.22E-05	2.78E-04	1.14E-05	8.6120E-03
520119.12	4258342.44	40515.68692	0.33119	7.54537	0.34375	8.98191	8.11E-03	1.36E-05	2.70E-04	1.41E-05	3.08E-04	8.7197E-03
520395.44	4259042.77	40497.34957	0.45666	0.13861	0.43412	0.14751	8.11E-03	1.87E-05	4.96E-06	1.78E-05	5.06E-06	8.1566E-03
520006.88	4258906.81	40488.3594	2.05375	0.99969	2.44511	0.93932	8.11E-03	8.41E-05	1.43E-05	1.00E-04	1.35E-05	8.3203E-03
520393.77	4258163.3	40471.11143	0.18512	0.47618	0.18978	0.50694	8.10E-03	7.58E-06	1.70E-05	7.77E-06	1.74E-05	8.1547E-03
520197.71	4258252.69	40470.22217	0.25894	2.11199	0.27143	2.37202	8.10E-03	1.06E-05	7.55E-05	1.11E-05	8.14E-05	8.2834E-03
520403.55	4258163.33	40469.4465	0.1829	0.45072	0.18758	0.47908	8.10E-03	7.49E-06	1.61E-05	7.68E-06	1.64E-05	8.1523E-03
519982.5	4258744.34	40457.30199	1.06046	0.79075	1.24024	0.74582	8.10E-03	4.34E-05	2.83E-05	5.08E-05	2.56E-05	8.2502E-03
520335	4258173.12	40453.8013	0.20114	0.67553	0.20784	0.72945	8.10E-03	8.24E-06	2.42E-05	8.51E-06	2.50E-05	8.1674E-03
520413.34	4258163.36	40423.03986	0.18068	0.42683	0.18538	0.45328	8.10E-03	7.40E-06	1.53E-05	7.59E-06	1.56E-05	8.1411E-03
520266.39	4258202.9	40416.59914	0.22586	1.10102	0.23816	1.21128	8.09E-03	9.25E-06	3.94E-05	9.75E-06	4.16E-05	8.1939E-03
520464.69	4258974.07	40409.25496	0.31994	0.13464	0.30519	0.1413	8.09E-03	1.31E-05	4.82E-06	1.25E-05	4.85E-06	8.1278E-03
520032.84	4258957.5	40396.98045	3.64843	0.35112	4.77189	0.34291	8.09E-03	1.49E-04	1.26E-05	1.95E-04	1.18E-05	8.4591E-03
520540.33	4258265.31	40391.1348	0.15918	0.22367	0.1586	0.23486	8.09E-03	6.52E-06	8.00E-06	6.49E-06	8.06E-06	8.1180E-03
520438.15	4259005.07	40382.73363	0.36524	0.13524	0.34813	0.14263	8.09E-03	1.50E-05	4.84E-06	1.43E-05	4.90E-06	8.1261E-03
520383.98	4258163.27	40380.2316	0.18726	0.50357	0.19199	0.53707	8.09E-03	7.67E-06	1.80E-05	7.86E-06	1.84E-05	8.1387E-03
520052.62	4258885.65	40373.96967	6.60144	0.33383	10.91077	0.32156	8.09E-03	2.70E-04	1.19E-05	4.47E-04	1.10E-05	8.8254E-03
520420.91	4259022.22	40366.31466	0.39905	0.13594	0.37991	0.14397	8.08E-03	1.63E-05	4.86E-06	1.56E-05	4.94E-06	8.1256E-03
520540.11	4258852.78	40320.53528	0.22438	0.13501	0.21557	0.14105	8.07E-03	9.19E-06	4.83E-06	8.83E-06	4.84E-06	8.1024E-03
520423.13	4258163.39	40302.79239	0.17842	0.40444	0.18312	0.42931	8.07E-03	7.31E-06	1.45E-05	7.50E-06	1.47E-05	8.1152E-03
520305.61	4258183.02	40300.06263	0.2106	0.82135	0.21962	0.89401	8.07E-03	8.62E-06	2.94E-05	8.99E-06	3.07E-05	8.1483E-03
520148.61	4258302.53	40233.25463	0.29429	4.12913	0.30374	4.76045	8.06E-03	1.20E-05	1.48E-04	1.24E-05	1.63E-04	8.3929E-03
520520.72	4258226.88	40228.473	0.16136	0.24435	0.16258	0.25847	8.06E-03	6.61E-06	8.74E-06	6.66E-06	8.87E-06	8.0872E-03
520575.75	4258753.42	40182.79666	0.18696	0.1422	0.1792	0.14782	8.05E-03	7.65E-06	5.09E-06	7.34E-06	5.07E-06	8.0723E-03
520374.19	4258163.24	40172.16088	0.18928	0.53312	0.19422	0.56965	8.05E-03	7.75E-06	1.91E-05	7.95E-06	1.96E-05	8.0994E-03
520530.02	4258240.87	40138.93303	0.15992	0.23418	0.1602	0.24713	8.04E-03	6.55E-06	8.38E-06	6.56E-06	8.48E-06	8.0683E-03
520581.34	4258692.19	40137.92405	0.17736	0.15018	0.17028	0.15641	8.04E-03	7.26E-06	5.37E-06	6.97E-06	5.37E-06	8.0631E-03
520207.53	4258242.72	40137.49448	0.252	1.89707	0.2649	2.12313	8.04E-03	1.03E-05	6.79E-05	1.08E-05	7.29E-05	8.2000E-03
520496.11	4258196.32	40128.75426	0.16516	0.27467	0.16832	0.29165	8.04E-03	6.76E-06	9.82E-06	6.89E-06	1.00E-05	8.0698E-03
520558.29	4258479.19	40114.26465	0.17474	0.18577	0.17088	0.19583	8.03E-03	7.15E-06	6.64E-06	7.00E-06	6.72E-06	8.0609E-03
520556.51	4258312.29	40107.92628	0.1588	0.20577	0.1584	0.21571	8.03E-03	6.50E-06	7.36E-06	6.49E-06	7.41E-06	8.0599E-03
520580.99	4258716.98	40096.97801	0.17992	0.14623	0.17265	0.15242	8.03E-03	7.37E-06	5.23E-06	7.07E-06	5.23E-06	8.0546E-03
520561.7	4258344.55	40095.31178	0.16042	0.19789	0.15977	0.20821	8.03E-03	6.57E-06	7.08E-06	6.54E-06	7.15E-06	8.0570E-03
520488.27	4258944.29	40070.2866	0.28567	0.13377	0.27326	0.14026	8.02E-03	1.17E-05	4.78E-06	1.12E-05	4.82E-06	8.0571E-03
520009.89	4258618.45	40065.43	0.96947	1.99029	1.19408	1.75881	8.02E-03	3.97E-05	7.12E-05	4.89E-05	6.04E-05	8.2438E-03
520497.41	4258930.5	40048.47901	0.27368	0.13345	0.26187	0.13997	8.02E-03	1.12E-05	4.77E-06	1.07E-05	4.81E-06	8.0518E-03
520562.93	4258355.09	40045.88354	0.16108	0.19566	0.16009	0.20604	8.02E-03	6.60E-06	7.00E-06	6.55E-06	7.07E-06	8.0470E-03
520385.56	4259052.79	40034.11417	0.482	0.13919	0.4579	0.14843	8.02E-03	1.97E-05	4.98E-06	1.87E-05	5.10E-06	8.0659E-03
520432.92	4258163.42	40030.06677	0.176	0.58369	0.18074	0.40699	8.02E-03	7.21E-06	1.37E-05	7.40E-06	1.40E-05	8.0589E-03
520562.15	4258437.59	40027.61481	0.16951	0.18802	0.16671	0.19771	8.02E-03	6.94E-06	6.73E-06	6.83E-06	6.79E-06	8.0434E-03
519982.73	4258817.24	40019.02391	1.24365	0.55181	1.43772	0.5339	8.01E-03	5.09E-05	1.97E-05	5.89E-05	1.83E-05	8.1622E-03
520455.62	4258987.83	40017.41284	0.33474	0.13423	0.31925	0.14104	8.01E-03	1.37E-05	4.80E-06	1.31E-05	4.84E-06	8.0505E-03
520022.62	4258943.29	40010.20203	2.86096	0.36076	3.57112	0.35402	8.01E-03	1.17E-04	1.29E-05	1.46E-04	1.22E-05	8.3010E-03
520094.69	4259031.31	40005.31464	13.47248	0.31077	12.13057	0.29039	8.01E-03	5.52E-04	1.11E-05	4.97E-04	9.97E-06	9.0810E-03
520246.78	4258212.84	40005.07615	0.23268	1.29938	0.24599	1.43706	8.01E-03	9.53E-06	4.65E-05	1.01E-05	4.93E-05	8.1270E-03
520563.96	4258390.6	39995.01208	0.16419	0.19055	0.16206	0.20063	8.01E-03	6.72E-06	6.82E-06	6.64E-06	6.89E-06	8.0366E-03
520404.18	4259039.15	39992.08767	0.43578	0.13676	0.41455	0.14533	8.01E-03	1.78E-05	4.89E-06	1.70E-05	4.99E-06	8.0537E-03
520563.81	4258416.06	39989.08215	0.16681	0.18914	0.16429	0.1988	8.01E-03	6.83E-06	6.77E-06	6.73E-06	6.82E-06	8.0355E-03
520506.73	4258916.64	39926.20279	0.26213	0.13113	0.25107	0.13963	8.00E-03	1.07E-05	4.76E-06	1.03E-05	4.79E-06	8.0263E-03
520364.4	4258163.21	39918.15973	0.19128	0.56495	0.19653	0.60511	7.99E-03	7.83E-06	2.02E-05	8.05E-06	2.08E-05	8.0510E-03
520325.21	4258173.08	39892.23918	0.20284	0.72029	0.21029	0.78008	7.99E-03	8.31E-06	2.58E-05	8.61E-06	2.68E-05	8.0584E-03
519992.19	4258870.77	39842.27542	1.54782	0.44745	1.7981	0.43809	7.98E-03	6.34E-05	1.60E-05	7.36E-05	1.50E-05	8.1470E-03
520099.45	4258372.38	39788.57443	0.36281	14.14659	0.3829	15.72817	7.97E-03	1.49E-05	5.06E-04	1.57E-05	5.40E-04	9.0447E-03
520460.39	4258171.02	39781.43764	0.17063	0.33126	0.17534	0.35121	7.97E-03	6.99E-06	1.18E-05	7.18E-06	1.21E-05	8.0048E-03
520469.23	4258174.8	39771.6649	0.1691	0.31603	0.17353	0.33532	7.96E-03	6.92E-06	1.13E-05	7.11E-06	1.15E-05	8.0017E-03
520514.47	4258214.19	39769.54111	0.1617	0.2519	0.16369	0.26681	7.96E-03	6.62E-06	9.01E-06	6.70E-06	9.16E-06	7.9959E-03
520555.45	4258301.82	39757.91779	0.15795	0.2078	0.15743	0.21764	7.96E-03	6.47E-06	7.43E-06	6.45E-06	7.47E-06	7.9899E-03
520008.28	4258917.38	39746.54742	2.12129	0.38488	2.53432	0.3787	7.96E-03	8.69E-05	1.38E-05	1.04E-04	1.30E-05	8.1772E-03
520461.55	4258167.23	39727.10776	0.17207	0.34737	0.1769	0.36814	7.96E-03	7.05E-06	1.24E-05	7.24E-06	1.26E-05	7.9952E-03
520217.35	4258232.75	39701.44388	0.24514	1.71473	0.25829	1.91231	7.95E-03	1.00E-05	6.13E-05	1.06E-05	6.57E-05	8.0984E-03
520539.51	4258254.95	39686.08037	0.15821	0.22475	0.15779	0.23638	7.95E-03	6.48E-06	8.04E-06	6.46E-06	8.12E-06	7.9768E-03
520516.26	4258902.69	39673.68854	0.25098	0.13273	0.24065	0.13916	7.95E-03	1.03E-05	4.75E-06	9.85E-06	4.78E-06	7.9749E-03
520138.79	4258312.5	39672.38932	0.30117	4.92349	0.31061	5.72023	7.94E-03	1.23E-05	1.76E-04	1.27E-05	1.96E-04	8.3425E-03
520058.46	4258998.05	39661.11851	8.23962	0.32434	16.70518	0.31104	7.94E-03	3.37E-04	1.16E-05	6.84E-04	1.07E-05	8.9863E-03
520429.41	4259018.7	39650.47072	0.3821	0.13428	0.36403	0.14199	7.94E-03	1.56E-05	4.80E-06	1.49E-05	4.87E-06	7.9808E-03
520442.71	4258163.45	39637.77768	0.17346	0.36438	0.17824	0.38623	7.94E-03	7.10E-06	1.30E-05	7.30E-06	1.33E-05	7.9787E-03
519994.57	4258881.74	39632.31051	1.62697	0.42991	1.89366	0.42166	7.94E-03	6.66E-05	1.54E-05	7.75E-05	1.45E-05	8.1109E-03
519986.82	4258851.23	39619.41126	1.38887	0.47977	1.60753	0.46792	7.93E-03	5.69E-05	1.72E-05	6.58E-05	1.61E-05	8.0902E-03
520478.07	4258178.58	39619.0082	0.16736	0.30181	0.17149	0.32036	7.93E-03	6.85E-06	1.08E-05	7.02E-06	1.10E-05	7.9699E-03
520579.39	4258744.73	39558.10242	0.18365	0.14214	0.17601	0.14789	7.92E-03	7.52E-06	5.08E-06	7.21E-06	5.08E-06	7.9466E-03
520354.61	4258163.18	39546.88841	0.19112	0.59954	0.19885	0.6436	7.92E-03	7.91E-06	2.14E-05	8.14E-06	2.21E-05	7.9794E-03
519997.12	4258655.32	39527.39305	0.96057	1.41316	1.15572	1.28576	7.92E-03	3.93E-05	5.05E-05	4.73E-05	4.41E-05	8.0972E-03
520276.21	4258192.93	39522.89179	0.21913	1.0208	0.2307	1.11991	7.91E-03	8.97E-06	3.65E-05	9.45E-06	3.84E-05	8.0084E-03
520446.7	4259001.53	39503.00478	0.35011	0.13359	0.33192	0.14064	7.91E-03	1.43E-05	4.78E-06	1.37E-05	4.83E-06	7.9486E-03
520295.82	4258182.99	39484.00621	0.21177	0.88184	0.22176	0.9623	7.91E-03	8.67E-06	3.15E-05	9.08E-06	3.30E-05	7.9895E-03
520505.02	4258200.13	39474.69351	0.16277	0.26372	0.16556	0.27971	7.91E-03	6.66E-06	9.43E-06	6.78E-06	9.60E-06	7.9378E-03
520553.69	4258830.05	39463.8569	0.21096	0.13509	0.20269	0.14078	7.90E-03	8.64E-06	4.83E-06	8.30E-06	4.83E-06	7.9298E-03
520557.29	4258821.46	39442.21759	0.20729	0.13566	0.19917	0.14128	7.90E-03	8.49E-06	4.85E-06	8.15E-06	4.85E-06	7.9252E-03
519979.4	4258761	39407.78779	1.05021	0.71611	1.22391	0.67903	7.89E-03	4.30E-05	2.56E-05	5.01E-05	2.33E-05	8.0340E-03
520412.92	4259035.53	39406.5527	0.41625	0.13481	0.39595	0.14308	7.89E-03	1.70E-05	4.82E-06	1.62E-05	4.91E-06	7.9347E-03
520012.13	4258928.96	39404.40082	2.29563	0.37155	2.77029	0.36559	7.89E-03	9.40E-05	1.13E-05	1.13E-04	1.26E-05	8.1245E-03
520039.56	4258540.74	39386.33469	0.86413	5.20603	1.04037	4.01639	7.89E-03	3.54E-05	1.86E-04	4.26E-05	1.38E-04	8.2897E-03
520560.88	4258812.87	39379.08865	0.2037	0.13618	0.19569	0.14172	7.89E-03	8.34E-06	4.87E-06	8.01E-06	4.87E-06	7.9123E-03
520538.86	4258863.31	39373.81139	0.22637	0.13117	0.21747	0.13923	7.89E-03	9.27E-06	4.76E-06	8.90E-06	4.78E-06	7.9129E-03
520550.22	4258279.56	39368.76248	0.15714	0.21437	0.15647	0.22442	7.88E-03	6.43E-06	7.67E-06	6.41E-06	7.70E-06	7.9123E-03
520033.92	4258967.94	39357.84353	3.76285	0.33945	4.94539	0.33135	7.88E-03	1.54E-04	1.21E-05	2.02E-04	1.14E-05	8.2620E-03
520043.77	4258982	39355.30591	4.95041	0.33103	7.04842	0.32106	7.88E-03	2.03E-04	1.18E-05	2.88E-04	1.10E-05	8.3956E-03
520486.91	4258182.37	39337.97055	0.16545	0.28864	0.16924	0.30638	7.88E-03	6.77E-06	1.03E-05	6.93E-06	1.05E-05	7.9105E-03
520526.02	4258888.64	39287.5519	0.24019	0.13233	0.2306	0.13862	7.87E-03	9.83E-06	4.73E-06	9.44E-06	4.76E-06	7.8966E-03
520473.36	4258970.48	39279.21853	0.30718	0.1328	0.29333	0.13927	7.87E-03	1.26E-05	4.75E-06	1.20E-05	4.78E-06	7.9003E-03
520564.48	4258804.28	39267.95341	0.20015	0.13666	0.19224	0.14212	7.86E-03	8.19E-06	4.89E-06	7.87E-06	4.88E-06	7.8898E-03
520554.5	4258291.4	39258.62397	0.15699	0.20981	0.15639	0.21956	7.86E-03	6.43E-06	7.50E-06	6.40E-06	7.54E-06	7.8899E-03
520561.76	4258462.44	39257.58313	0.17169	0.18544	0.16835	0.19527	7.86E-03	7.03E-06	6.63E-06	6.89E-06	6.70E-06	7.8891E-03
520019.77	4258589.32	39250.58963	0.94386	2.67571	1.1862	2.28182	7.86E-03	3.86E-05	9.57E-05	4.86E-05	7.83E-05	8.1217E-03
520256.6	4258202.87	39223.083	0.22587	1.19669	0.23871	1.31906	7.85E-03	9.25E-06	4.28E-05	9.77E-06	4.53E-05	7.9621E-03
520315.43	4258173.05	39216.48298	0.20427	0.76972	0.21261	0.83566	7.85E-03	8.36E-06	2.75E-05	8.71E-06	2.87E-05	7.9269E-03
520529.4	4258230.59	39215.30576	0.15875	0.23538	0.15946	0.24862	7.85E-03	6.50E-06	8.42E-06	6.53E-06	8.54E-06	7.8834E-03
520227.17	4258222.78	39210.01456	0.23846	1.55801	0.25163	1.73243	7.85E-03	9.76E-06	5.57E-05	1.03E-05	5.95E-05	7.9876E-03
519996.34	4258892.47	39200.63374	1.69092	0.41327	1.97271	0.40592	7.85E-03	6.92E-05	1.48E-05	8.08E-05	1.39E-05	8.0292E-03
519978.37	4258782.62	39168.54224	1.08995	0.64058	1.25975	0.61261	7.84E-03	4.46E-05	2.29E-05	5.16E-05	2.10E-05	7.9842E-03
520344.82	4258163.15	39121.76994	0.1949	0.6371	0.20123	0.68569	7.83E-03	7.98E-06	2.28E-05	8.24E-06	2.35E-05	7.8972E-03
520568.08	4258795.69	39108.07238	0.19664	0.13709	0.18882	0.14248	7.83E-03	8.05E-06	4.90E-06	7.73E-06	4.89E-06	7.8575E-03
520023.85	4258953.79	39054.76647	2.95164	0.34837	3.70021	0.34178	7.82E-03	1.21E-04	1.52E-04	1.52E-04	1.17E-05	8.1178E-03
520109.3	4258352.41	39047.02963	0.33731	9.96295	0.35215	11.79272	7.82E-03	1.38E-05	3.56E-04	1.44E-05	4.05E-04	8.6091E-03
519983.15	4258842.38	39006.83023	1.29729	0.49359	1.49569	0.48042	7.81E-03	5.31E-05	1.77E-05	6.12E-05	1.65E-05	7.9602E-03
519979.02	4258808.3	39001.70129	1.15614	0.56839	1.33299	0.54817	7.81E-03	4.73E-05	2.03E-05	5.46E-05	1.88E-05	7.9517E-03
520464.23	4258984.27	38989.70893	0.32122	0.13241	0.30654	0.13898	7.81E-03	1.32E-05	4.74E-06	1.26E-05	4.77E-06	7.8434E-03
520567.38	4258399.59	38984.95814	0.16363	0.18816	0.1613	0.19783	7.81E-03	6.70E-06	6.73E-06	6.60E-06	6.79E-06	7.8341E-03
520583.02	4258736.05	38955.92387	0.18052	0.14219	0.17308	0.14804	7.80E-03	7.39E-06	5.09E-06	7.09E-06	5.08E-06	7.8261E-03
520395.46	4259052.77	38937.56038	0.4567	0.13596	0.43418	0.14478	7.80E-03	1.87E-05	4.86E-06	1.78E-05	4.97E-06	7.8441E-03
520495.74	4258186.15	38921.34536	0.1634	0.27639	0.16683	0.29331	7.79E-03	6.69E-06	9.89E-06	6.83E-06	1.01E-05	7.8280E-03
520538.76	4258244.61	38914.50589	0.15718	0.22586	0.15705	0.23788	7.79E-03	6.44E-06	8.08E-06	6.43E-06	8.17E-06	7.8223E-03
520393.8	4258153.3	38895.63801	0.18172	0.47801	0.18617	0.50886	7.79E-03	7.44E-06	1.71E-05	7.62E-06	1.75E-05	7.8390E-03
520437.91	4259015.18	38881.90904	0.36611	0.1327	0.34908	0.14007	7.79E-03	1.50E-05	4.75E-06	1.43E-05	4.81E-06	7.8255E-03
520403.59	4258153.33	38877.29144	0.17956	0.45265	0.18402	0.48084	7.79E-03	7.35E-06	1.62E-05	7.53E-06	1.65E-05	7.8333E-03
520567.71	4258374.57	38870.99606	0.16103	0.1903	0.15933	0.20032	7.78E-03	6.59E-06	6.81E-06	6.52E-06	6.88E-06	7.8112E-03
520523.44	4258218.03	38853.0012	0.15908	0.24217	0.16058	0.25614	7.78E-03	6.51E-06	8.66E-06	6.57E-06	8.79E-06	7.8114E-03
520413.37	4258153.36	38851.35997	0.17747	0.42881	0.18193	0.45498	7.78E-03	7.27E-06	1.53E-05	7.45E-06	1.56E-05	7.8262E-03
520549.22	4258269.12	38842.36126	0.15628	0.21578	0.15557	0.22615	7.78E-03	6.40E-06	7.72E-06	6.37E-06	7.76E-06	7.8070E-03
520128.97	4258322.47	38834.1716	0.30762	6.01225	0.31778	7.01049	7.78E-03	1.26E-05	2.15E-04	1.30E-05	2.41E-04	8.2584E-03
520084.79	4259031.32	38824.14846	14.49393	0.30653	19.95932	0.28818	7.78E-03	5.93E-04	1.10E-05	8.17E-04	9.89E-06	9.2066E-03
520571.67	4258787.1	38809.70012	0.19312	0.13741	0.18537	0.14273	7.77E-03	7.91E-06	4.91E-06	7.59E-06	4.90E-06	7.7975E-03
520496.72	4258940.8	38787.28299	0.27515	0.13158	0.26328	0.13794	7.77E-03	1.13E-05	4.71E-06	1.08E-05	4.74E-06	7.7992E-03
520384.01	4258153.27	38775.36665	0.18372	0.50542	0.18832	0.53908	7.77E-03	7.52E-06	1.81E-05	7.71E-06	1.85E-05	7.8171E-03
520421.66	4259031.91	38771.46908	0.39782	0.13317	0.37884	0.14112	7.76E-03	1.63E-05	4.76E-06	1.55E-05	4.84E-06	7.8059E-03
519981.79	4258718.53	38762.96747	0.96707	0.89782	1.12901	0.83992	7.76E-03	3.96E-05	3.21E-05	4.62E-05	2.88E-05	7.9096E-03
520423.16	4258153.39	38752.83883	0.17533	0.40644	0.1798	0.43092	7.76E-03	7.18E-06	1.45E-05	7.36E-06	1.48E-05	7.8047E-03
520505.92	4258926.98	38725.1791	0.26369	0.1313	0.25254	0.13767	7.76E-03	1.08E-05	4.70E-06	1.03E-05	4.73E-06	7.7858E-03
520049.35	4258894.29	38720.80873	5.92973	0.32156	9.0923	0.31069	7.75E-03	2.43E-04	1.15E-05	3.72E-04	1.07E-05	8.3916E-03
520513.92	4258203.94	38708.3466	0.16029	0.25334	0.16268	0.26835	7.75E-03	6.56E-06	9.06E-06	6.66E-06	9.21E-06	7.7834E-03
520335.03	4258163.12	38691.55196	0.1967	0.67793	0.20364	0.73204	7.75E-03	8.05E-06	2.42E-05	8.34E-06	2.51E-05	7.8143E-03
519997.95	4258803.12	38679.6867	1.75158	0.39768	2.04868	0.39106	7.75E-03	7.17E-05	1.42E-05	8.39E-05	1.34E-05	7.9294E-03
519984.55	4258701.08	38664.77567	0.94998	0.99898	1.11479	0.92922	7.74E-03	3.89E-05	3.57E-05	4.56

520486.63	4258172.24	38092.19219	0.16348	0.2904	0.16744	0.30798	7.63E-03	6.69E-06	1.04E-05	6.86E-06	1.06E-05	7.6630E-03
519999.43	4258913.73	38084.07074	1.80954	0.38295	2.12193	0.37694	7.63E-03	7.41E-05	1.37E-05	8.69E-05	1.29E-05	7.8145E-03
520430.4	4259028.3	38076.54978	0.38052	0.13152	0.36266	0.13915	7.63E-03	1.56E-05	4.70E-06	1.48E-05	4.78E-06	7.6653E-03
520446.41	4259011.66	38067.20209	0.35106	0.1311	0.33493	0.13814	7.62E-03	1.44E-05	4.69E-06	1.37E-05	4.74E-06	7.6610E-03
520568.02	4258337.24	38037.34622	0.15697	0.19406	0.15638	0.20395	7.62E-03	6.43E-06	6.94E-06	6.40E-06	7.00E-06	7.6443E-03
520565.29	4258316.05	38001.62798	0.15572	0.19855	0.15534	0.20814	7.61E-03	6.38E-06	7.10E-06	6.36E-06	7.15E-06	7.6373E-03
520207.56	4258232.72	37984.84869	0.24283	1.90446	0.25445	1.21989	7.61E-03	9.94E-06	6.81E-05	1.04E-05	7.31E-05	7.7686E-03
520246.81	4258202.84	37970.36235	0.22538	1.30526	0.23826	1.4415	7.60E-03	9.23E-06	4.67E-05	9.76E-06	4.95E-05	7.7192E-03
520472.83	4258980.71	37944.49661	0.30849	0.13064	0.29465	0.137	7.60E-03	1.26E-05	4.67E-06	1.21E-05	4.70E-06	7.6330E-03
520412.82	4259045.58	37923.47428	0.41662	0.13229	0.39641	0.14048	7.59E-03	1.71E-05	4.73E-06	1.62E-05	4.82E-06	7.6375E-03
519987.12	4258683.15	37918.47876	0.91914	1.11524	1.08577	1.03049	7.59E-03	3.76E-05	3.99E-05	4.45E-05	3.54E-05	7.7511E-03
520522.83	4258207.76	37891.40378	0.15781	0.2435	0.15973	0.25763	7.59E-03	6.46E-06	8.71E-06	6.54E-06	8.84E-06	7.6188E-03
520532.42	4258221.88	37881.07897	0.15648	0.23297	0.15744	0.24608	7.59E-03	6.41E-06	8.33E-06	6.45E-06	8.45E-06	7.6158E-03
520582.47	4258761.33	37880.50228	0.18331	0.13828	0.17583	0.1436	7.59E-03	7.51E-06	4.95E-06	7.20E-06	4.93E-06	7.6107E-03
519975.31	4258799.36	37875.21781	1.07534	0.58491	1.23465	0.56226	7.59E-03	4.40E-05	2.09E-05	5.06E-05	1.93E-05	7.7198E-03
520354.64	4258153.18	37859.45642	0.18905	0.60164	0.19498	0.6457	7.58E-03	7.74E-06	2.15E-05	7.98E-06	2.22E-05	7.6413E-03
520148.64	4258292.53	37832.61276	0.28094	4.14101	0.28892	4.77688	7.58E-03	1.15E-05	1.48E-04	1.18E-05	1.64E-04	7.9119E-03
520547.31	4258859.81	37825.09363	0.21874	0.13116	0.21033	0.13696	7.57E-03	8.96E-06	4.69E-06	8.61E-06	4.70E-06	7.6020E-03
520564.14	4258305.55	37819.12907	0.15499	0.20053	0.15452	0.20999	7.57E-03	6.35E-06	7.17E-06	6.33E-06	7.21E-06	7.6009E-03
520565.05	4258471.07	37812.9771	0.17061	0.18233	0.16694	0.19202	7.57E-03	6.99E-06	6.52E-06	6.84E-06	6.59E-06	7.5995E-03
520534.74	4258885.03	37800.94639	0.23168	0.13022	0.22266	0.13627	7.57E-03	9.49E-06	4.66E-06	9.12E-06	4.68E-06	7.5981E-03
520002.98	4258925.19	37789.73882	1.93743	0.36951	2.28789	0.36397	7.57E-03	7.93E-05	1.32E-05	9.37E-05	1.25E-05	7.7666E-03
520570.81	4258408.58	37767.65948	0.16286	0.18512	0.16035	0.19447	7.56E-03	6.67E-06	6.62E-06	6.57E-06	6.68E-06	7.5900E-03
520495.41	4258175.99	37747.65884	0.16159	0.27806	0.16524	0.29487	7.56E-03	6.62E-06	9.95E-06	6.77E-06	1.01E-05	7.5929E-03
520040.25	4258990.54	37737.96897	4.489	0.31886	6.1445	0.31012	7.56E-03	1.84E-04	1.14E-05	2.52E-04	1.06E-05	8.0150E-03
520014.87	4258950.08	37716.69445	2.44483	0.34608	2.97336	0.34058	7.55E-03	1.00E-04	1.24E-05	1.22E-04	1.17E-05	7.7992E-03
520513.42	4258193.72	37691.30541	0.15887	0.25472	0.16159	0.26082	7.55E-03	6.50E-06	9.11E-06	6.62E-06	9.26E-06	7.5797E-03
519975.82	4258752.35	37674.07665	0.97052	0.73448	1.12468	0.6943	7.54E-03	3.97E-05	2.63E-05	4.60E-05	2.38E-05	7.6806E-03
519997.12	4258646.05	37670.77618	0.90804	1.47593	1.0903	1.33901	7.54E-03	3.72E-05	5.28E-05	4.46E-05	4.60E-05	7.7247E-03
520029.65	4258560.18	37664.87291	0.88365	3.71682	1.08974	3.02367	7.54E-03	3.62E-05	1.33E-04	4.46E-05	1.04E-04	7.8605E-03
520295.85	4258172.99	37653.6389	0.20636	0.8853	0.21659	0.96544	7.54E-03	8.45E-06	3.17E-05	8.87E-06	3.31E-05	7.6228E-03
519974.62	4258773.58	37646.11176	1.00602	0.65922	1.16047	0.62782	7.54E-03	4.12E-05	2.36E-05	4.75E-05	2.16E-05	7.6730E-03
520559.2	4258283.4	37639.78333	0.15419	0.20672	0.15354	0.21615	7.54E-03	6.31E-06	7.39E-06	6.29E-06	7.42E-06	7.5653E-03
520463.8	4258994.45	37633.35988	0.32238	0.13023	0.30785	0.13671	7.54E-03	1.32E-05	4.66E-06	1.26E-05	4.69E-06	7.5717E-03
520017.38	4258222.75	37629.37008	0.23661	1.72136	0.24862	1.91857	7.54E-03	9.68E-06	6.16E-05	1.02E-05	6.59E-05	7.6831E-03
520276.24	4258182.93	37624.43587	0.21305	1.0251	0.22649	1.12349	7.53E-03	8.72E-06	3.67E-05	9.20E-06	3.86E-05	7.6280E-03
520547.5	4258248.36	37619.84578	0.15445	0.21804	0.154	0.22916	7.53E-03	6.32E-06	7.80E-06	6.31E-06	7.87E-06	7.5622E-03
520505.17	4258937.3	37554.66005	0.26515	0.12949	0.25393	0.13572	7.52E-03	1.09E-05	4.63E-06	1.04E-05	4.66E-06	7.5514E-03
520050.28	4259004.67	37552.07346	6.13684	0.31126	9.53998	0.30062	7.52E-03	2.51E-04	1.11E-05	3.91E-04	1.03E-05	8.1836E-03
520062.25	4258475.37	37545.72844	0.59768	16.78882	0.66597	8.8469	7.52E-03	2.45E-05	6.01E-04	2.73E-05	3.04E-04	8.4750E-03
519985.47	4258877.99	37525.38714	1.40187	0.42743	1.61166	0.41878	7.51E-03	5.74E-05	1.53E-05	6.60E-05	1.44E-05	7.6680E-03
520563.12	4258295.09	37497.81958	0.15415	0.20247	0.15358	0.21181	7.51E-03	6.31E-06	7.24E-06	6.29E-06	7.27E-06	7.5366E-03
520315.46	4258163.05	37492.93392	0.1995	0.77236	0.2081	0.83851	7.51E-03	8.17E-06	2.76E-05	8.52E-06	2.88E-05	7.5816E-03
519975.82	4258824.69	37463.49251	1.13136	0.52231	1.29654	0.50577	7.50E-03	4.63E-05	1.87E-05	5.31E-05	1.74E-05	7.6360E-03
520344.85	4258153.15	37440.5907	0.19069	0.63929	0.19727	0.68788	7.50E-03	7.81E-06	2.29E-05	8.08E-06	2.36E-05	7.5604E-03
520514.42	4258923.46	37436.22402	0.25424	0.12918	0.2437	0.13539	7.50E-03	1.04E-05	4.62E-06	9.98E-06	4.65E-06	7.5268E-03
520590.3	4258718.69	37394.10021	0.17441	0.14214	0.16744	0.14807	7.49E-03	7.14E-06	5.08E-06	6.86E-06	5.08E-06	7.5128E-03
520009.85	4258608.75	37378.97896	0.90013	1.06276	1.10405	1.81954	7.49E-03	3.69E-05	7.38E-05	4.52E-05	6.25E-05	7.7040E-03
520413.41	4258143.36	37346.16876	0.17429	0.4306	0.17855	0.45649	7.48E-03	7.14E-06	1.54E-05	7.31E-06	1.57E-05	7.5246E-03
520393.83	4258143.3	37343.84389	0.17829	0.47981	0.18267	0.51053	7.48E-03	7.30E-06	1.72E-05	7.48E-06	1.75E-05	7.5281E-03
520403.62	4258143.33	37335.16456	0.17623	0.45448	0.18056	0.48241	7.48E-03	7.22E-06	1.63E-05	7.39E-06	1.66E-05	7.5243E-03
520421.51	4259041.98	37332.24407	0.39834	0.13062	0.37933	0.13851	7.48E-03	1.63E-05	4.67E-06	1.55E-05	4.76E-06	7.5176E-03
520439.14	4259024.68	37331.61377	0.36423	0.12993	0.34743	0.13723	7.48E-03	1.49E-05	4.65E-06	1.42E-05	4.71E-06	7.5147E-03
520586.06	4258752.74	37318.74602	0.1801	0.13824	0.17271	0.14367	7.47E-03	7.37E-06	4.94E-06	7.07E-06	4.93E-06	7.4979E-03
520504.19	4258179.75	37296.05973	0.15958	0.26658	0.16288	0.28262	7.47E-03	6.53E-06	9.54E-06	6.67E-06	9.70E-06	7.5015E-03
520256.63	4258192.87	37280.95946	0.21909	1.20189	0.23164	1.32307	7.47E-03	8.97E-06	4.30E-05	9.48E-06	4.54E-05	7.5729E-03
520138.82	4258302.5	37258.42225	0.287	4.9384	0.29512	5.73274	7.46E-03	1.18E-05	1.77E-04	1.21E-05	1.97E-04	7.8588E-03
520558.12	4258272.93	37248.62788	0.15341	0.20823	0.15264	0.21788	7.46E-03	6.28E-06	7.45E-06	6.25E-06	7.48E-06	7.4870E-03
519987.32	4258888.75	37245.49185	1.45789	0.41106	1.67806	0.40342	7.46E-03	5.97E-05	1.47E-05	6.87E-05	1.38E-05	7.6159E-03
520423.19	4258143.39	37244.51713	0.17222	0.40836	0.17652	0.43237	7.46E-03	7.05E-06	1.46E-05	7.23E-06	1.48E-05	7.5025E-03
520384.04	4258143.27	37236.77884	0.18022	0.50711	0.18479	0.54085	7.46E-03	7.38E-06	1.81E-05	7.57E-06	1.86E-05	7.5088E-03
520099.48	4258362.38	37230.91037	0.34229	14.18533	0.36026	15.79597	7.46E-03	1.40E-05	5.07E-04	1.48E-05	5.42E-04	8.5344E-03
520454.9	4259008.14	37216.5438	0.33685	0.12954	0.3216	0.13627	7.45E-03	1.38E-05	4.63E-06	1.32E-05	4.68E-06	7.4894E-03
520026.07	4258974.69	37204.43612	3.12707	0.32583	3.94511	0.31942	7.45E-03	1.28E-04	1.17E-05	1.62E-04	1.10E-05	7.7629E-03
520523.87	4258909.54	37202.07261	0.24371	0.12883	0.23386	0.13497	7.45E-03	9.98E-06	4.61E-06	9.58E-06	4.63E-06	7.4790E-03
519979.79	4258858.39	37177.70756	1.25695	0.45699	1.44149	0.44599	7.45E-03	5.15E-05	1.63E-05	5.90E-05	1.53E-05	7.5875E-03
520570.76	4258434.32	37160.63871	0.16504	0.18264	0.16217	0.19188	7.44E-03	6.76E-06	6.53E-06	6.64E-06	6.59E-06	7.4684E-03
520227.2	4258212.78	37152.37825	0.23035	1.56504	0.24268	1.73711	7.44E-03	9.43E-06	5.60E-05	9.94E-06	5.96E-05	7.5753E-03
520591.37	4258692.17	37151.56989	0.17143	0.14589	0.16463	0.1518	7.44E-03	7.02E-06	5.22E-06	6.74E-06	5.21E-06	7.4643E-03
520568.64	4258454.63	37129.91221	0.16763	0.18181	0.16438	0.19125	7.44E-03	6.86E-06	6.50E-06	6.73E-06	6.57E-06	7.4624E-03
520004.49	4258935.8	37107.55027	2.00189	0.35649	2.37177	0.35133	7.43E-03	8.20E-05	1.28E-05	9.71E-05	1.21E-05	7.6352E-03
520560.71	4258837.22	37072.11137	0.20604	0.13118	0.1981	0.13667	7.42E-03	8.44E-06	4.69E-06	8.11E-06	4.69E-06	7.4501E-03
520374.25	4258143.24	37072.04989	0.18211	0.53643	0.18697	0.57369	7.42E-03	7.46E-06	1.92E-05	7.66E-06	1.97E-05	7.4782E-03
520432.98	4258143.42	37066.70948	0.1701	0.38749	0.17446	0.40992	7.42E-03	6.96E-06	1.34E-05	7.14E-06	1.41E-05	7.4652E-03
520468.93	4258154.65	37066.04003	0.16436	0.31993	0.1689	0.3384	7.42E-03	6.73E-06	1.14E-05	6.92E-06	1.16E-05	7.4597E-03
520460.21	4258150.92	37058.83867	0.16567	0.33501	0.17026	0.35422	7.42E-03	6.78E-06	1.20E-05	6.97E-06	1.22E-05	7.4594E-03
520564.28	4258828.71	37056.2589	0.20257	0.13181	0.19479	0.13721	7.42E-03	8.29E-06	4.71E-06	7.98E-06	4.71E-06	7.4467E-03
520083.42	4259043.59	37018.32714	14.37839	0.2941	21.73969	0.27703	7.41E-03	5.89E-04	1.05E-05	8.90E-04	9.51E-06	8.9123E-03
520490.69	4258963.31	37013.9385	0.28375	0.129	0.27154	0.13514	7.41E-03	1.16E-05	4.61E-06	1.11E-05	4.64E-06	7.4445E-03
520335.07	4258153.12	37011.50578	0.19232	0.68021	0.19957	0.73427	7.41E-03	7.87E-06	2.43E-05	8.17E-06	2.52E-05	7.4779E-03
520500.12	4258949.4	37009.24783	0.27162	0.12874	0.26004	0.13489	7.41E-03	1.11E-05	4.60E-06	1.06E-05	4.63E-06	7.4426E-03
520567.84	4258820.2	37004.67434	0.19915	0.13231	0.19148	0.13764	7.41E-03	8.15E-06	4.73E-06	7.84E-06	4.73E-06	7.4361E-03
520477.66	4258158.38	37003.09354	0.16294	0.3057	0.16732	0.32354	7.41E-03	6.67E-06	1.09E-05	6.85E-06	1.11E-05	7.4459E-03
520531.73	4258211.57	36966.38478	0.15526	0.23434	0.15672	0.24756	7.40E-03	6.36E-06	8.38E-06	6.42E-06	8.50E-06	7.4327E-03
520522.26	4258197.5	36960.95306	0.15652	0.24479	0.1588	0.25905	7.40E-03	6.41E-06	8.76E-06	6.50E-06	8.89E-06	7.4325E-03
520546.12	4258870.31	36960.54334	0.22056	0.12935	0.21206	0.13516	7.40E-03	9.03E-06	4.63E-06	8.68E-06	4.64E-06	7.4288E-03
520053.78	4259013.71	36960.15181	6.95352	0.3046	11.70104	0.29347	7.40E-03	2.85E-04	1.09E-05	4.79E-04	1.01E-05	8.1865E-03
520451.49	4258147.18	36946.50794	0.16681	0.35106	0.17138	0.37105	7.40E-03	6.83E-06	1.26E-05	7.02E-06	1.27E-05	7.4382E-03
520546.75	4258238.02	36931.83013	0.15347	0.21912	0.15333	0.23059	7.40E-03	6.28E-06	7.84E-06	6.28E-06	7.92E-06	7.4244E-03
520571.4	4258811.69	36914.58753	0.19578	0.13276	0.1882	0.13803	7.39E-03	8.02E-06	4.75E-06	7.71E-06	4.74E-06	7.4179E-03
520481.44	4258977.14	36905.35144	0.29641	0.12898	0.28355	0.13514	7.39E-03	1.21E-05	4.61E-06	1.16E-05	4.64E-06	7.4238E-03
520486.38	4258162.11	36901.42144	0.16147	0.29209	0.16554	0.30946	7.39E-03	6.61E-06	1.04E-05	6.78E-06	1.06E-05	7.4245E-03
520016.08	4258960.58	36896.12842	2.5177	0.33449	3.07033	0.32915	7.39E-03	1.03E-04	1.20E-05	1.26E-04	1.13E-05	7.6410E-03
519989.02	4258899.44	36869.66475	1.51106	0.39573	1.74263	0.38891	7.38E-03	6.19E-05	1.42E-05	7.14E-05	1.34E-05	7.5444E-03
520533.54	4258895.53	36853.69395	0.2335	0.12854	0.22438	0.13455	7.38E-03	9.56E-06	4.60E-06	9.19E-06	4.62E-06	7.4084E-03
520541.4	4258225.72	36830.06956	0.15387	0.22428	0.15143	0.23656	7.38E-03	6.30E-06	8.02E-06	6.32E-06	8.12E-06	7.4045E-03
520286.06	4258172.96	36798.92487	0.20699	0.95308	0.21801	1.04168	7.37E-03	8.48E-06	3.41E-05	8.93E-06	3.58E-05	7.4567E-03
520093.34	4259053.57	36798.13068	13.89992	0.28916	12.78968	0.27086	7.37E-03	5.69E-04	1.03E-05	5.24E-04	9.30E-06	8.4818E-03
520557.14	4258262.49	36794.70173	0.1526	0.20949	0.15118	0.21945	7.37E-03	6.25E-06	7.49E-06	6.22E-06	7.53E-06	7.3961E-03
520574.96	4258803.19	36783.59665	0.19245	0.13322	0.18496	0.1384	7.37E-03	7.88E-06	4.77E-06	7.57E-06	4.75E-06	7.3914E-03
520442.77	4258143.45	36768.9607	0.16786	0.36803	0.17231	0.38897	7.36E-03	6.87E-06	1.32E-05	7.06E-06	1.34E-05	7.4039E-03
520589.66	4258744.15	36763.15981	0.17705	0.1382	0.1698	0.14375	7.36E-03	7.25E-06	4.94E-06	6.95E-06	4.94E-06	7.3864E-03
520305.67	4258163.02	36733.65246	0.20041	0.82749	0.20998	0.89998	7.36E-03	8.21E-06	2.96E-05	8.60E-06	3.09E-05	7.4337E-03
520512.96	4258183.51	36719.95302	0.15743	0.25601	0.16039	0.2712	7.35E-03	6.45E-06	9.16E-06	6.57E-06	9.31E-06	7.3852E-03
520031.14	4258886.78	36715.96918	3.55573	0.31636	4.55676	0.30938	7.35E-03	1.45E-04	1.13E-05	1.87E-04	1.06E-05	7.7062E-03
520430.19	4259038.39	36687.67501	0.38115	0.12906	0.36335	0.13665	7.35E-03	1.56E-05	4.62E-06	1.49E-05	4.69E-06	7.3870E-03
520364.46	4258143.21	36666.25703	0.18357	0.56881	0.18909	0.60904	7.34E-03	7.52E-06	2.03E-05	7.74E-06	2.09E-05	7.3994E-03
520472.35	4258890.91	36663.35954	0.30966	0.12853	0.29592	0.13479	7.34E-03	1.27E-05	4.60E-06	1.21E-05	4.63E-06	7.3764E-03
520041.24	4259000.94	36662.78451	4.63228	0.30871	6.37893	0.30011	7.34E-03	1.90E-04	1.10E-05	2.61E-04	1.03E-05	7.8144E-03
520237.02	4258202.81	36654.70058	0.22432	1.4291	0.23672	1.58129	7.34E-03	9.18E-06	5.11E-05	9.69E-06	5.43E-05	7.4649E-03
520495.1	4258165.85	36627.48183	0.15976	0.2796	0.16355	0.29628	7.34E-03	6.54E-06	1.00E-05	6.70E-06	1.02E-05	7.3686E-03
519987.12	4258673.87	36621.50038	0.88026	1.16534	1.03724	1.07484	7.33E-03	3.60E-05	4.17E-05	4.25E-05	3.69E-05	7.4910E-03
519971.61	4258790.42	36619.50343	0.99867	0.60154	1.14354	0.57611	7.33E-03	4.09E-05	2.15E-05	4.68E-05	1.98E-05	7.4626E-03
520578.53	4258794.68	36607.76583	0.18918	0.13367	0.18179	0.13878	7.33E-03	7.75E-06	4.78E-06	7.44E-06	4.76E-06	7.3559E-03
520109.33	4258342.41	36590.57424	0.31945	9.98845	0.33266	11.84693	7.33E-03	1.31E-05	3.57E-04	1.36E-05	4.07E-04	8.1185E-03
519976.16	4258849.63	36589.43558	1.17784	0.46952	1.34702	0.45727	7.33E-03	4.82E-05	1.68E-05	5.52E-05	1.57E-05	7.4634E-03
520266.45	4258182.9	36580.33458	0.21304	1.11042	0.22515	1.21897	7.33E-03	8.72E-06	3.97E-05	9.22E-06	4.18E-05	7.4252E-03
520447.88	4259021.06	36542.18831	0.3489	0.12835	0.33302	0.13532	7.32E-03	1.43E-05	4.59E-06	1.36E-05	4.65E-06	7.3352E-03
520129.01	4258312.47	36520.58074	0.29287	6.02615	0.3016	7.05287	7.31E-03	1.20E-05	2.16E-04	1.23E-05	2.42E-04	7.7958E-03
520568.33	4258479.69	36517.38266	0.16948	0.17925	0.16543	0.18876	7.31E-03	6.94E-06	6.41E-06	6.77E-06	6.48E-06	7.3397E-03
519972.15	4258815.84	36512.44585	1.05607	0.53702	1.20671	0.51844	7.31E-03	4.32E-05	1.92E-05	4.94E-05	1.78E-05	7.4418E-03
520593.93	4258710	36501.77592	0.17151	0.142	0.16471	0.14788	7.31E-03	7.02E-06	5.08E-06	6.74E-06	5.08E-06	7.3339E-03
520325.28	4258153.08	36469.21349	0.19368	0.72527	0.20172	0.78507	7.30E-03	7.93E-06	2.59E-05	8.26E-06	2.70E-05	7.3725E-03
519990.57	4258910.07	36410.27648	1.56148	0.38113	1.80398	0.37502	7.29E-03	6.39E-05	1.36E-05	7.39E-05	1.29E-05	7.4560E-03
520582.09	4258786.17	36386.11647	0.18597	0.13409	0.17868	0.13913	7.29E-03	7.61E-06	4.82E-06	7.32E-06	4.78E-06	7.3113E-03
520005.88	4258946.37	36385.09125	2.06374	0.3442	2.45218	0.33934	7.29E-03	8.45E-05	1.23E-05	1.00E-04	1.16E-05	7.4955E-03
520049.44	4258511.61	36364.17505	0.73225	7.76912	0.83922	5.59261	7.28E-03	3.00E-05	2.78E-04	3.44E-05	1.92E-04	7.8167E-03
520543.46	4258881.42	36360.81749	0.2236	0.12816	0.2151	0.13398	7.28E-03	9.16E-06	4.58E-06	8.81E-06	4.60E-06	7.3089E-03
520513.62	4258933.8	36349.13744	0.25566	0.12742	0.24504	0.1335	7.28E-03	1.05E-05	4.56E-06	1.00E-05	4.58E-06	7.3091E-03
520178.14	4258252.63	36339.57069	0.25137	2.69428	0.25967	3.04777	7.28E-03	1.03E-05	9.64E-05	1.06E-05	1.05E-04	7.4994E-03
520187.96	4258242.66	36335.29894	0.24562	2.38407	0.25465	2.68541	7.28E-03	1.01E-05	8.53E-05	1.04E-05	9.22E-05	7.4746E-03
520463.4	4259004.63	36334.20089	0.32342	0.128	0.30902	0.13444	7.28E-03	1.32E-05	4.58E-06	1.27E-05	4.62E-06	7.3115E-03
520555.76	4258856.31	36317.91984	0.21148	0.12912	0.20348	0.13468	7.27E-03	8.66E-06	4.62E-06	8.33E-06	4.62E-06	7.2994E-03
520556.25	4258252.1	36273.72237	0.15173	0.21061	0.15104	0.2209	7.26E-03	6.21E-06	7.53E-06	6.18E-06	7.58E-06	7.2918E-03
520354.67	4258143.18	36263.23952	0.18507	0.60358	0.19125	0.64755	7.26E-03	7.58E-06	2.16E-05	7.83E-06	2.22E-05	7.3214E-03
520503.82	4258169.58	36239.96143	0.1579	0.26805	0.16139	0.28401	7.26E-03	6.47E-06	9.59E-06	6.61E-06	9.75E-06	7.2900E-03
520168.32	4258262.6	36237.90039	0.25713	3.07377	0.26475	3.49526	7.26E-03	1.05E-05	1.10E-04	1.08E-05	1.20E-04	7.5084E-03
520593.26	4258735.56	36235.28018	0.17418	0.13829	0.16713	0.14392	7.26E-03	7.13E-06	4.95E-06	6.84E-06	4.94E-06	7.2805E-03
519975.25	4258726.86	36224.10129	0.89293	0.82688	1.03096	0.77652	7.25E-03	3.66E-05	2.96E-05	4.22E-05	2.67E-05	7.3894E-03
520197.78	4258232.69	36217.72564	0.23987	1.22702	0.24961	1.38616	7.25E-03	9.82E-06	7.61E-05	1.02E-05	8.19E-05	7.4311E-03
519978.13	4258709.69	36209.52903	0.88018	0.91397	1.02157	0.85402	7.25E-03	3.60E-05	3.27E-05	4.18E-05	2.93E-05	7.3913E-03
520522.93	4258919.94	36180.3681	0.24525	0.12712	0.23532	0.13316	7.25E-03	1.00E-05	4.55E-06	9.63E-06	4.57E-06	7.2744E-03
519993.84	4258921.41	36178.52297	1.65809	0.36773	1.92496	0.36223	7.25E-03	6.79E-05	1.32E-05	7.88E-05	1.24E-05	7.4175E-03
520531.1	4258201.28	36158.26239	0.15414	0.23546	0.15594	0.24894	7.24E-03	6.31E-06	8.42E-06	6.38E-06	8.55E-06	7.2708E-03
520585.65	4258777.66	36110.91993	0.18283	0.13444	0.17562	0.13945	7.23E-03	7.49E-06	4.81E-06	7.19E-06	4.79E-06	7.2560E-03
520019.73	4258579.62	36088.65605	0.87023	2.76919	1.08263	2.34707	7.23E-03	3.56E-05	9.91E-05	4.43E-05	8.06E-05	7.4868E-03
520246.84	4258192.84	36080.60981	0.21835	1.3108	0.23071	1.44547	7.23E-03	8.94E-06	4.69E-05	9.45E-06	4.96E-05	7.3405E-03
520017.21	4258971.04	36078.09097	2.58713	0.33258	3.16187	0.31836	7.23E-03	1.06E-04	1.16E-05

520217.41	4258212.75	35661.03782	0.22834	1.72856	0.23934	1.92314	7.14E-03	9.35E-06	6.18E-05	9.80E-06	6.60E-05	7.2886E-03
520022.04	4258983.02	35660.93825	2.8712	0.31413	3.56282	0.30853	7.14E-03	1.18E-04	1.12E-05	1.46E-04	1.06E-05	7.4269E-03
520451.78	4258137.29	35656.2261	0.16416	0.35213	0.16855	0.37171	7.14E-03	6.72E-06	1.26E-05	6.90E-06	1.28E-05	7.1796E-03
520007.17	4258956.89	35655.82157	2.12382	0.33263	2.53022	0.328	7.14E-03	8.70E-05	1.19E-05	1.04E-04	1.13E-05	7.3543E-03
520148.68	4258282.53	35650.21635	0.26854	4.15199	0.27531	4.7883	7.14E-03	1.10E-05	1.49E-04	1.13E-05	1.64E-04	7.4746E-03
520567.01	4258276.73	35628.2362	0.15056	0.20101	0.14981	0.21004	7.14E-03	6.16E-06	7.19E-06	6.13E-06	7.21E-06	7.1617E-03
519995.42	4258932.06	35614.21961	1.71291	0.35478	1.99369	0.34977	7.13E-03	7.01E-05	1.27E-05	8.16E-05	1.20E-05	7.3087E-03
520043.88	4259013.73	35588.45923	5.02612	0.29792	7.08623	0.28918	7.13E-03	2.06E-04	1.07E-05	2.90E-04	9.93E-06	7.6436E-03
520119.19	4258322.44	35581.80445	0.29834	7.59149	0.30829	8.959	7.13E-03	1.22E-05	2.72E-04	1.26E-05	3.08E-04	7.7297E-03
519999.93	4258628.19	35572.95385	0.85311	1.64747	1.02443	1.48419	7.12E-03	3.49E-05	5.89E-05	4.19E-05	5.10E-05	7.3107E-03
520554.5	4258866.84	35552.52068	0.21329	0.12741	0.20524	0.13299	7.12E-03	8.73E-06	4.56E-06	8.40E-06	4.57E-06	7.1461E-03
520597.57	4258701.32	35542.86902	0.16868	0.14192	0.16205	0.14768	7.12E-03	6.91E-06	5.08E-06	6.63E-06	5.07E-06	7.1416E-03
520596.85	4258726.96	35537.25388	0.1713	0.13824	0.16446	0.14392	7.12E-03	7.01E-06	4.94E-06	6.73E-06	4.94E-06	7.1405E-03
520542.18	4258891.95	35516.12541	0.22539	0.12657	0.21686	0.13236	7.11E-03	9.23E-06	4.53E-06	8.88E-06	4.54E-06	7.1398E-03
520374.28	4258133.24	35501.76525	0.17836	0.53839	0.18349	0.57518	7.11E-03	7.30E-06	1.93E-05	7.51E-06	1.97E-05	7.1635E-03
520093.77	4259064.4	35489.46738	13.63833	0.27993	12.53511	0.26236	7.11E-03	5.58E-04	1.00E-05	5.13E-04	9.01E-06	8.1979E-03
520496.67	4258156.51	35486.91654	0.15753	0.27845	0.16136	0.29484	7.11E-03	6.45E-06	9.96E-06	6.61E-06	1.01E-05	7.1399E-03
519968.48	4258807	35486.2011	0.98676	0.55136	1.1211	0.53081	7.11E-03	4.04E-05	1.97E-05	4.59E-05	1.82E-05	7.2308E-03
520256.66	4258182.87	35479.25287	0.21257	1.20675	0.22473	1.32675	7.11E-03	8.70E-06	4.32E-05	9.20E-06	4.55E-05	7.2118E-03
520442.8	4258133.45	35471.57332	0.16515	0.36955	0.16938	0.39018	7.10E-03	6.76E-06	1.32E-05	6.94E-06	1.34E-05	7.1440E-03
520471.9	4259001.11	35433.15533	0.31073	0.12643	0.29712	0.13261	7.10E-03	1.27E-05	4.52E-06	1.22E-05	4.55E-06	7.1299E-03
520335.1	4258143.12	35426.79034	0.18805	0.6824	0.19561	0.73629	7.09E-03	7.70E-06	2.44E-05	8.01E-06	2.53E-05	7.1601E-03
520592.77	4258760.64	35377.72191	0.17675	0.13471	0.16968	0.13982	7.08E-03	7.24E-06	4.82E-06	6.95E-06	4.80E-06	7.1087E-03
520039.52	4258531.05	35349.10545	0.7784	5.2708	0.91542	4.08555	7.08E-03	3.19E-05	1.89E-04	3.75E-05	1.40E-04	7.4773E-03
519978.31	4258885.03	35307.23942	1.26855	0.40862	1.44431	0.40061	7.07E-03	5.19E-05	1.46E-05	5.91E-05	1.38E-05	7.2102E-03
520530.52	4258191.02	35288.73782	0.15287	0.23673	0.15507	0.25026	7.07E-03	6.26E-06	8.47E-06	6.35E-06	8.59E-06	7.0967E-03
520227.23	4258202.78	35275.71592	0.22268	1.57116	0.23408	1.74173	7.06E-03	9.12E-06	5.62E-05	9.58E-06	5.98E-05	7.1991E-03
520565.95	4258266.27	35273.31495	0.1498	0.20243	0.14898	0.21165	7.06E-03	6.13E-06	7.24E-06	6.10E-06	7.27E-06	7.0907E-03
520447.56	4259031.2	35261.50799	0.3497	0.12602	0.33396	0.13298	7.06E-03	1.43E-05	4.51E-06	1.37E-05	4.57E-06	7.0987E-03
520539.94	4258205.07	35245.61877	0.15166	0.22681	0.15303	0.23942	7.06E-03	6.21E-06	8.11E-06	6.27E-06	8.22E-06	7.0872E-03
519967.9	4258781.48	35226.05062	0.9253	0.61784	1.05795	0.5894	7.05E-03	3.79E-05	2.21E-05	4.33E-05	2.02E-05	7.1780E-03
520522.07	4258930.3	35174.58071	0.24664	0.12543	0.23664	0.13136	7.04E-03	1.01E-05	4.49E-06	9.69E-06	4.51E-06	7.0730E-03
520364.49	4258133.21	35170.36814	0.17986	0.57049	0.18558	0.61067	7.04E-03	7.36E-06	2.04E-05	7.60E-06	2.10E-05	7.0997E-03
520521.26	4258177.04	35168.43631	0.15384	0.24725	0.15666	0.2617	7.04E-03	6.30E-06	8.84E-06	6.41E-06	8.98E-06	7.0735E-03
519987.12	4258664.6	35154.70199	0.83913	1.21556	0.98833	1.11838	7.04E-03	3.44E-05	4.35E-05	4.05E-05	3.84E-05	7.1969E-03
520505.64	4258160.35	35125.64432	0.15573	0.26663	0.1593	0.28231	7.03E-03	6.38E-06	9.54E-06	6.52E-06	9.69E-06	7.0665E-03
519968.89	4258832.1	35119.68409	1.03361	0.4954	1.1763	0.48	7.03E-03	4.23E-05	1.77E-05	4.82E-05	1.65E-05	7.1579E-03
520286.09	4258162.96	35111.56714	0.20152	0.95668	0.21259	1.04457	7.03E-03	8.25E-06	3.42E-05	8.70E-06	3.59E-05	7.1186E-03
520305.7	4259153.02	35109.72263	0.19553	0.83037	0.20531	0.90253	7.03E-03	8.01E-06	2.97E-05	8.41E-06	3.10E-05	7.1083E-03
520138.86	4258292.5	35106.08594	0.27398	4.95029	0.28093	5.74981	7.03E-03	1.12E-05	1.77E-04	1.15E-05	1.97E-04	7.4277E-03
519980.09	4258895.75	35066.73686	1.31575	0.39356	1.49988	0.38645	7.02E-03	5.39E-05	1.41E-05	6.14E-05	1.33E-05	7.1652E-03
520549.55	4258219.19	35030.8955	0.15026	0.21735	0.15067	0.22806	7.02E-03	6.15E-06	7.77E-06	6.17E-06	7.86E-06	7.0434E-03
519996.89	4258942.66	35027.68928	1.76652	0.34258	2.06134	0.33797	7.01E-03	7.23E-05	1.23E-05	8.44E-05	1.16E-05	7.1954E-03
520099.51	4258352.38	34964.48815	0.32378	14.21948	0.33988	15.96441	7.00E-03	1.33E-05	5.09E-04	1.39E-05	5.48E-04	8.0860E-03
520552.17	4258877.81	34964.33822	0.21592	0.12614	0.20788	0.13174	7.00E-03	8.84E-06	4.51E-06	8.51E-06	4.52E-06	7.0285E-03
520531.44	4258916.42	34960.78408	0.23672	0.12515	0.22738	0.13102	7.00E-03	9.69E-06	4.48E-06	9.31E-06	4.50E-06	7.0294E-03
519972.59	4258865.13	34939.73014	1.14218	0.43619	1.29637	0.42605	7.00E-03	4.68E-05	1.56E-05	5.31E-05	1.46E-05	7.1272E-03
520008.36	4258967.38	34928.5309	2.18133	0.32173	2.60394	0.31709	6.99E-03	8.93E-05	1.15E-05	1.07E-04	1.09E-05	7.2132E-03
520596.34	4258752.14	34910.48656	0.17382	0.1347	0.16686	0.13992	6.99E-03	7.12E-06	4.82E-06	6.83E-06	4.80E-06	7.0149E-03
520325.31	4258143.08	34893.68678	0.18925	0.72766	0.1976	0.78717	6.99E-03	7.75E-06	2.60E-05	8.09E-06	2.70E-05	7.0568E-03
520567.74	4258844.38	34890.65845	0.20123	0.12752	0.19366	0.1328	6.99E-03	8.24E-06	4.56E-06	7.93E-06	4.56E-06	7.0126E-03
520571.27	4258835.94	34880.5251	0.19795	0.12807	0.19051	0.13328	6.99E-03	8.10E-06	4.58E-06	7.80E-06	4.58E-06	7.0104E-03
520564.99	4258255.84	34864.43396	0.149	0.20364	0.1482	0.21312	6.98E-03	6.10E-06	7.28E-06	6.07E-06	7.32E-06	7.0088E-03
520465.36	4259013.82	34864.05565	0.32079	0.12533	0.3067	0.13167	6.98E-03	1.31E-05	4.48E-06	1.26E-05	4.52E-06	7.0167E-03
520266.48	4258172.9	34858.05149	0.20697	1.11473	0.21882	1.2223	6.98E-03	8.47E-06	3.99E-05	8.96E-06	4.20E-05	7.0801E-03
520574.8	4258827.51	34839.02641	0.1947	0.12866	0.18741	0.13379	6.98E-03	7.97E-06	4.60E-06	7.67E-06	4.59E-06	7.0018E-03
520237.05	4258192.81	34826.56462	0.2171	1.43488	0.22874	1.58516	6.97E-03	8.89E-06	5.13E-05	9.37E-06	5.44E-05	7.0985E-03
520354.71	4258133.18	34820.99095	0.18134	0.60518	0.18771	0.64941	6.97E-03	7.42E-06	2.16E-05	7.68E-06	2.23E-05	7.0324E-03
520498.65	4258970.02	34786.56512	0.27435	0.12516	0.26277	0.13103	6.97E-03	1.12E-05	4.48E-06	1.08E-05	4.50E-06	6.9975E-03
520023.17	4258993.48	34778.22622	2.9549	0.30414	3.67183	0.29863	6.96E-03	1.21E-04	1.09E-05	1.50E-04	1.03E-05	7.2573E-03
520508.02	4258956.13	34777.05519	0.26288	0.12483	0.2519	0.13081	6.96E-03	1.08E-05	4.47E-06	1.03E-05	4.49E-06	6.9946E-03
520578.33	4258819.08	34763.4806	0.19149	0.12904	0.18426	0.13412	6.96E-03	7.84E-06	4.62E-06	7.54E-06	4.60E-06	6.9865E-03
519981.72	4258906.42	34735.82745	1.36061	0.37925	1.55312	0.37291	6.96E-03	5.57E-05	1.36E-05	6.36E-05	1.28E-05	7.1020E-03
520054.23	4259033.71	34715.59983	7.13321	0.28614	12.12279	0.27579	6.95E-03	2.92E-04	1.02E-05	4.96E-04	9.47E-06	7.7604E-03
520489.45	4258983.84	34708.16886	0.28627	0.12521	0.27415	0.13109	6.95E-03	1.17E-05	4.48E-06	1.12E-05	4.50E-06	6.9827E-03
520600.45	4258718.37	34686.27353	0.16841	0.13798	0.16173	0.14368	6.95E-03	6.90E-06	4.94E-06	6.62E-06	4.93E-06	6.9608E-03
520009.81	4258599.06	34680.56553	0.83797	2.13145	1.02482	1.87578	6.95E-03	3.43E-05	7.62E-05	4.20E-05	6.44E-05	7.1622E-03
520469.58	4258134.9	34671.47207	0.15959	0.32175	0.16391	0.33952	6.94E-03	6.53E-06	1.15E-05	6.71E-06	1.17E-05	6.9798E-03
520514.62	4258164.19	34671.36908	0.15382	0.25555	0.15707	0.27053	6.94E-03	6.30E-06	9.14E-06	6.43E-06	9.29E-06	6.9746E-03
520478.5	4258138.72	34642.18421	0.15834	0.3072	0.16266	0.32429	6.94E-03	6.48E-06	1.10E-05	6.66E-06	1.11E-05	6.9728E-03
520541.01	4258902.44	34640.47266	0.22708	0.12491	0.21841	0.13066	6.94E-03	9.30E-06	4.47E-06	8.94E-06	4.49E-06	6.9644E-03
520487.41	4258142.53	34606.63606	0.1571	0.29326	0.16122	0.30995	6.93E-03	6.43E-06	1.05E-05	6.60E-06	1.06E-05	6.9646E-03
520581.86	4258810.64	34592.64048	0.18826	0.12942	0.1811	0.13443	6.93E-03	7.71E-06	4.63E-06	7.41E-06	4.62E-06	6.9526E-03
519984.69	4258917.64	34589.21604	1.45502	0.36598	1.64152	0.36034	6.93E-03	5.88E-05	1.31E-05	6.73E-05	1.24E-05	7.0785E-03
520460.66	4258131.08	34582.06525	0.16064	0.33727	0.16492	0.3557	6.93E-03	6.58E-06	1.21E-05	6.75E-06	1.22E-05	6.9631E-03
520012.93	4258979.26	34573.43177	2.38653	0.31215	2.88087	0.30755	6.92E-03	9.77E-05	1.12E-05	1.18E-04	1.06E-05	7.1612E-03
520423.26	4258123.39	34552.6581	0.16634	0.41128	0.17026	0.43487	6.92E-03	6.81E-06	1.47E-05	6.97E-06	1.49E-05	6.9631E-03
520413.47	4258123.36	34549.10452	0.16807	0.43365	0.17212	0.45902	6.92E-03	6.88E-06	1.55E-05	7.05E-06	1.58E-05	6.9641E-03
520601.2	4258692.64	34531.60767	0.16595	0.14184	0.15943	0.14744	6.92E-03	6.79E-06	5.07E-06	6.53E-06	5.06E-06	6.9389E-03
520480.39	4258997.59	34519.93402	0.29872	0.12491	0.28596	0.13088	6.92E-03	1.22E-05	4.47E-06	1.17E-05	4.49E-06	6.9480E-03
520575.13	4258471.66	34515.14608	0.16556	0.17597	0.16169	0.18515	6.91E-03	6.78E-06	6.29E-06	6.62E-06	6.36E-06	6.9382E-03
520529.98	4258180.78	34513.32992	0.15169	0.23779	0.15413	0.2515	6.91E-03	6.21E-06	8.51E-06	6.31E-06	8.63E-06	6.9414E-03
520403.68	4258123.33	34508.28209	0.16981	0.45747	0.17405	0.48505	6.91E-03	6.95E-06	1.64E-05	7.13E-06	1.67E-05	6.9578E-03
520083.87	4259064.41	34497.15997	14.75429	0.27595	20.90457	0.26026	6.91E-03	6.04E-04	9.87E-06	8.56E-04	8.93E-06	8.3874E-03
520456.24	4259027.6	34494.96511	0.33532	0.12455	0.32047	0.13119	6.91E-03	1.37E-05	4.45E-06	1.31E-05	4.50E-06	6.9436E-03
520043.9	4259023.73	34493.42178	5.04856	0.28863	7.10193	0.28022	6.91E-03	2.07E-04	1.03E-05	2.91E-04	9.62E-06	7.4252E-03
520539.3	4258194.78	34492.67649	0.15056	0.22791	0.15231	0.24069	6.91E-03	6.16E-06	8.15E-06	6.24E-06	8.26E-06	6.9364E-03
520433.05	4258123.42	34455.35009	0.16449	0.39037	0.16839	0.41232	6.90E-03	6.73E-06	1.40E-05	6.89E-06	1.42E-05	6.9419E-03
520496.33	4258146.35	34441.52645	0.15565	0.28005	0.15955	0.29623	6.90E-03	6.37E-06	1.00E-05	6.53E-06	1.02E-05	6.9305E-03
520451.75	4258127.27	34437.32017	0.1616	0.35364	0.16577	0.37291	6.90E-03	6.62E-06	1.26E-05	6.79E-06	1.28E-05	6.9354E-03
520187.99	4258232.66	34415.9991	0.23632	2.3914	0.2441	2.69216	6.89E-03	9.68E-06	8.55E-05	9.99E-06	9.24E-05	7.0809E-03
520564.11	4258245.45	34406.75445	0.14819	0.20469	0.1475	0.21449	6.89E-03	6.07E-06	7.32E-06	6.04E-06	7.36E-06	6.9172E-03
520393.89	4258123.3	34401.60782	0.17149	0.483	0.17602	0.5131	6.89E-03	7.02E-06	1.73E-05	7.21E-06	1.76E-05	6.9385E-03
520344.92	4258133.15	34397.77248	0.18268	0.64306	0.18978	0.69169	6.89E-03	7.48E-06	2.30E-05	7.77E-06	2.37E-05	6.9506E-03
520178.17	4258242.63	34397.09198	0.24155	2.70194	0.2486	3.05586	6.89E-03	9.89E-06	9.66E-05	1.02E-05	1.05E-04	7.1101E-03
519998.25	4258953.21	34388.83808	1.81754	0.33103	2.12565	0.32675	6.89E-03	7.44E-05	1.18E-05	8.70E-05	1.12E-05	7.0713E-03
520129.04	4258302.47	34388.44548	0.27916	6.04277	0.28681	7.06575	6.89E-03	1.14E-05	2.16E-04	1.17E-05	2.43E-04	7.3686E-03
520599.9	4258743.63	34379.97448	0.17097	0.13472	0.16417	0.14003	6.89E-03	7.00E-06	4.82E-06	6.72E-06	4.81E-06	6.9084E-03
520197.81	4258222.69	34342.25139	0.23111	2.13369	0.2368	2.39238	6.88E-03	9.46E-06	7.63E-05	9.81E-06	8.21E-05	7.0552E-03
519968.81	4258856.03	34337.45934	1.06956	0.44823	1.21251	0.43679	6.88E-03	4.38E-05	1.60E-05	4.96E-05	1.50E-05	7.0010E-03
519964.81	4258798.15	34335.24087	0.91996	0.56598	1.04223	0.54303	6.88E-03	3.77E-05	2.02E-05	4.27E-05	1.86E-05	6.9953E-03
520295.91	4258152.99	34328.11068	0.19599	0.89179	0.20653	0.9708	6.87E-03	8.02E-06	3.19E-05	8.46E-06	3.33E-05	6.9564E-03
520246.87	4258182.84	34326.72262	0.21162	1.31594	0.22336	1.44902	6.87E-03	8.66E-06	4.71E-05	9.15E-06	4.97E-05	6.9890E-03
520588.93	4258793.77	34324.52412	0.18215	0.13036	0.17518	0.13521	6.87E-03	7.46E-06	4.66E-06	7.17E-06	4.64E-06	6.8979E-03
520548.78	4258208.85	34301.10759	0.1492	0.21862	0.1501	0.23045	6.87E-03	6.11E-06	7.82E-06	6.15E-06	7.91E-06	6.8973E-03
520093.79	4259074.4	34277.5253	13.54486	0.27165	12.4973	0.25478	6.86E-03	5.55E-04	9.72E-06	5.12E-04	8.75E-06	7.9493E-03
520384.1	4258123.27	34273.71355	0.1732	0.51037	0.17808	0.54355	6.86E-03	7.09E-06	1.83E-05	7.29E-06	1.87E-05	6.9151E-03
520168.35	4258252.6	34272.57464	0.24676	3.08215	0.25317	3.50454	6.86E-03	1.01E-05	1.10E-04	1.04E-05	1.20E-04	7.1146E-03
520315.52	4258143.05	34270.54781	0.19015	0.77769	0.19933	0.84307	6.86E-03	7.79E-06	2.78E-05	8.16E-06	2.89E-05	6.9350E-03
519967.12	4258755.49	34268.68906	0.85556	0.69275	0.9797	0.65548	6.86E-03	3.50E-05	2.48E-05	4.01E-05	2.25E-05	6.9852E-03
519965.26	4258823.34	34261.05871	0.96936	0.50834	1.09827	0.49125	6.86E-03	3.97E-05	1.82E-05	4.50E-05	1.69E-05	6.9809E-03
520442.83	4258123.45	34257.20785	0.16252	0.37085	0.16649	0.39129	6.85E-03	6.65E-06	1.33E-05	6.82E-06	1.34E-05	6.9006E-03
520577.15	4258291.09	34208.79956	0.14846	0.19222	0.14786	0.20082	6.85E-03	6.08E-06	6.88E-06	6.05E-06	6.89E-06	6.8767E-03
520276.3	4258162.93	34205.82558	0.20152	1.03303	0.21299	1.12969	6.85E-03	8.25E-06	3.70E-05	8.72E-06	3.88E-05	6.9429E-03
520550.82	4258888.38	34200.62453	0.21771	0.12457	0.20963	0.13016	6.85E-03	8.91E-06	4.46E-06	8.58E-06	4.47E-06	6.8756E-03
520562.88	4258863.37	34192.35613	0.20635	0.12547	0.1987	0.13083	6.85E-03	8.45E-06	4.49E-06	8.14E-06	4.49E-06	6.8730E-03
520029.6	4258550.48	34145.60819	0.80449	3.79827	0.97158	3.09311	6.84E-03	3.29E-05	1.36E-04	3.98E-05	1.06E-04	7.1529E-03
520207.63	4258212.72	34143.93513	0.225281	1.91803	0.23509	2.14055	6.84E-03	9.25E-06	6.86E-05	9.63E-06	7.35E-05	6.9988E-03
520505.24	4258150.16	34137.76433	0.154	0.26818	0.15769	0.2837	6.84E-03	6.31E-06	9.59E-06	6.46E-06	9.74E-06	6.8686E-03
519986.36	4258928.32	34133.56662	1.48307	0.35318	1.70185	0.3481	6.84E-03	6.07E-05	1.26E-05	6.97E-05	1.20E-05	6.9907E-03
520523.6	4258168.03	34110.39649	0.15178	0.24532	0.1547	0.25956	6.83E-03	6.21E-06	8.77E-06	6.33E-06	8.91E-06	6.8613E-03
520592.46	4258785.34	34095.4183	0.17915	0.13079	0.17229	0.13559	6.83E-03	7.34E-06	4.68E-06	7.05E-06	4.65E-06	6.8518E-03
520374.31	4258123.24	34035.77436	0.17474	0.53999	0.18013	0.57638	6.82E-03	7.15E-06	1.93E-05	7.38E-06	1.98E-05	6.8698E-03
520530.51	4258926.8	34034.01388	0.23811	0.12352	0.22871	0.12929	6.82E-03	9.75E-06	4.42E-06	9.36E-06	4.44E-06	6.8437E-03
520158.53	4258262.56	34028.87583	0.25192	3.5568	0.25786	4.06928	6.81E-03	1.03E-05	1.27E-04	1.06E-05	1.40E-04	7.1025E-03
520575.9	4258280.54	34025.79737	0.14778	0.194	0.14706	0.20257	6.81E-03	6.05E-06	6.94E-06	6.02E-06	6.95E-06	6.8401E-03
520581.53	4258312.99	33996.86927	0.14914	0.18688	0.14863	0.19575	6.81E-03	6.11E-06	6.68E-06	6.09E-06	6.72E-06	6.8339E-03
520474.1	4259010.2	33992.27608	0.30789	0.12386	0.29467	0.12992	6.81E-03	1.26E-05	4.43E-06	1.21E-05	4.46E-06	6.8411E-03
519971.62	4258718.12	33955.11386	0.81729	0.8406	0.93885	0.78869	6.80E-03	3.35E-05	3.01E-05	3.84E-05	2.71E-05	6.9290E-03
520558.45	4258223	33946.72451	0.14772	0.20965	0.14767	0.22055	6.80E-03	6.05E-06	7.50E-06	6.05E-06	7.57E-06	6.8255E-03
520335.13	4258133.12	33942.26126	0.18392	0.68442	0.19177	0.73812	6.80E-03	7.53E-06	2.45E-05	7.85E-06	2.53E-05	6.8627E-03
520580.35	4258302.47	33935.39188	0.14848	0.18882	0.14798	0.19749	6.80E-03	6.08E-06	6.75E-06	6.06E-06	6.78E-06	6.8217E-03
520604.05	4258709.78	33925.00415	0.16575	0.13801	0.15927	0.14361	6.79E-03	6.79E-06	4.94E-06	6.52E-06	4.93E-06	6.8171E-03
519968.64	4258735.05	33906.92706	0.82638	0.76513	0.94532	0.72085	6.79E-03	3.38E-05	2.74E-05	3.87E-05	2.47E-05	6.9150E-03
520585.36	4258369.19	33869.98038	0.15308	0.17871	0.15111	0.18786	6.78E-03	6.27E-06	6.39E-06	6.19E-06	6.45E-06	6.8082E-03
520217.45	4258202.75	33867.98077	0.22054	1.73453	0.23049	1.92751	6.78E-03	9.03E-06	6.20E-05	9.44E-06	6.62E-05	6.9292E-03
520595.99	4258776.9	33816.15415	0.17621	0.13107	0.16941	0.13586	6.77E-03	7.21E-06	4.69E-06	6.94E-06	4.66E-06	6.7956E-03
520256.69	4258172.87	33805.59689	0.2063	1.21128	0.21798	1.3301	6.77E-03	8.45E-06	4.33E-05	8.92E-06	4.57E-05	6.8764E-03
520364.52	4258123.21	33802.63428	0.17634	0.57188	0.18225	0.61226	6.77E-03	7.22E-06	2.05E-05	7.46E-06	2.10E-05	6.8256E-03
520603.46	4258735.12	33782.45153	0.16819	0.13467	0.16157	0.14006	6.77E-03	6.89E-06	4.82E-06	6.62E-06	4.81E-06	6.7885E-03
520538.7	4258184.51	33781.18872	0.14947	0.22893	0.15152	0.24191	6.77E-03	6.12E-06	8.19E-06	6.20E-06	8.30E-06	6.7940E-03
520539.94	4258912.89	33779.60874	0.22862	0.12326	0.21985	0.12896	6.76E-03	9.36E-06	4.41E-06	9.00E-06	4.43E-06	6.7920E-03
520014.13	4258889.75	33778.83036	2.4537	0.30224	2.96556	0.29775	6.76E-03	1.00E-04	1.08E-05	1.21E-04	1.02E-05	7.0076E-03
519964.19	4258772.54	33769.01993	0.8588	0.63287	0.97715	0.66201	6.76E-03	3.52E-05	2.26E-05	4.00E-05	2.07E-05	6.8812E-03
520062.83	4258443.35	33768.29501	0.46183	18.04345	0.50472	9.2422	6.76E-03	1.89E-05	6.45E-04	2.07E-05	3.17E-04	7.6488E-03
520574.77	4258270.04	33763.46233	0.14706	0.19556	0.14624	0.20418	6.76E-03	6.02E-06	6.99E-06	5.99E-06	7.01E-06	6.7876E-03
520514.16	4258153.98	33754.57384	0.15226	0.2568	0.15566	0.27171	6.76E-03	6.23E-06	9.19E-06	6.37E-06	9.33E-06	6.7909E-03
520507.25	4258966.46	33749.66877	0.26417	0.12322	0.25319	0.12896	6.76E-03	1.08E-05	4.41E-06	1.04

520403.71	4258113.33	33238.16089	0.16678	0.45861	0.17102	0.48619	6.66E-03	6.83E-06	1.64E-05	7.00E-06	1.67E-05	6.7033E-03
520433.08	4258113.42	33225.68413	0.16172	0.39159	0.16546	0.41331	6.65E-03	6.62E-06	1.40E-05	6.77E-06	1.42E-05	6.6955E-03
520568.33	4258237.24	33196.56255	0.14584	0.20172	0.14524	0.21137	6.65E-03	5.97E-06	7.22E-06	5.95E-06	7.26E-06	6.6745E-03
520138.89	4258282.5	33154.37817	0.26193	4.96207	0.26787	5.76707	6.64E-03	1.07E-05	1.77E-04	1.10E-05	1.98E-04	7.0368E-03
520504.87	4258139.99	33148.70165	0.15219	0.26995	0.156	0.28519	6.64E-03	6.23E-06	9.66E-06	6.39E-06	9.79E-06	6.6705E-03
520237.09	4258182.81	33142.34965	0.21022	1.43995	0.22105	1.58363	6.64E-03	8.61E-06	5.15E-05	9.05E-06	5.45E-05	6.7609E-03
519989.33	4258949.53	33135.8498	1.57406	0.32965	1.81347	0.32545	6.64E-03	6.44E-05	1.18E-05	7.43E-05	1.12E-05	6.7979E-03
520482.84	4259006.58	33127.4013	0.2957	0.1224	0.28336	0.12822	6.63E-03	1.21E-05	4.38E-06	1.16E-05	4.40E-06	6.6667E-03
520607.02	4258726.61	33120.50022	0.1655	0.13456	0.15905	0.13999	6.63E-03	6.78E-06	4.81E-06	6.51E-06	4.81E-06	6.6557E-03
520393.92	4258113.3	33098.82539	0.16832	0.48419	0.17294	0.51423	6.63E-03	6.89E-06	1.73E-05	7.08E-06	1.77E-05	6.6774E-03
520603.05	4258760.03	33090.22545	0.17053	0.13126	0.16387	0.13618	6.63E-03	6.98E-06	4.69E-06	6.71E-06	4.68E-06	6.6498E-03
520572.79	4258249.17	33083.33663	0.14555	0.19801	0.14473	0.20704	6.63E-03	5.96E-06	7.08E-06	5.93E-06	7.11E-06	6.6515E-03
519961.14	4258789.3	33078.23198	0.85658	0.58024	0.96832	0.5548	6.62E-03	3.51E-05	2.08E-05	3.96E-05	1.90E-05	6.7389E-03
519972.87	4258902.77	33068.49957	1.19487	0.37707	1.35028	0.3705	6.62E-03	4.89E-05	1.35E-05	5.53E-05	1.27E-05	6.7528E-03
520442.86	4258113.45	33067.26202	0.15987	0.37206	0.16365	0.39225	6.62E-03	6.55E-06	1.33E-05	6.70E-06	1.35E-05	6.6622E-03
520607.64	4258701.19	33051.19666	0.16313	0.13811	0.15684	0.14356	6.62E-03	6.68E-06	4.94E-06	6.42E-06	4.93E-06	6.6419E-03
520344.95	4258123.15	33034.57235	0.1789	0.64464	0.18623	0.69343	6.62E-03	7.32E-06	2.31E-05	7.63E-06	2.38E-05	6.6774E-03
520019.69	4258569.92	33028.88897	0.80331	2.84712	0.98169	2.41052	6.61E-03	3.29E-05	1.02E-04	4.02E-05	8.28E-05	6.8722E-03
520581.18	4258461.69	33026.14329	0.162	0.17331	0.15835	0.18218	6.61E-03	6.63E-06	6.20E-06	6.48E-06	6.25E-06	6.6395E-03
520588.66	4258377.86	33009.68514	0.15248	0.17592	0.1502	0.18479	6.61E-03	6.24E-06	6.29E-06	6.15E-06	6.34E-06	6.6357E-03
520063.93	4258432.91	33001.85004	0.43209	19.86185	0.47051	9.65784	6.61E-03	1.77E-05	7.10E-04	1.93E-05	3.32E-04	7.6880E-03
520049.4	4258501.91	32999.41635	0.66306	7.82166	0.74933	5.64922	6.61E-03	2.71E-05	2.80E-04	3.07E-05	1.94E-04	7.1401E-03
520547.42	4258188.24	32982.101	0.1472	0.22062	0.14883	0.23287	6.61E-03	6.03E-06	7.89E-06	6.09E-06	7.99E-06	6.6331E-03
520099.55	4258342.38	32945.5858	0.30696	14.25294	0.32149	15.95838	6.60E-03	1.26E-05	5.10E-04	1.32E-05	5.48E-04	7.6812E-03
519975.54	4258913.86	32943.15602	1.25234	0.36398	1.41802	0.35814	6.60E-03	5.13E-05	1.30E-05	5.81E-05	1.23E-05	6.7320E-03
520559.46	4258884.8	32936.57666	0.20138	0.12268	0.20277	0.12805	6.60E-03	8.61E-06	4.39E-06	8.30E-06	4.40E-06	6.6217E-03
520538.96	4258923.31	32922.6255	0.23	0.12165	0.22115	0.12727	6.59E-03	9.42E-06	4.35E-06	9.05E-06	4.37E-06	6.6204E-03
519965.56	4258872.3	32913.50494	1.04575	0.41632	1.17678	0.40699	6.59E-03	4.28E-05	1.49E-05	4.82E-05	1.40E-05	6.7112E-03
520384.13	4258113.27	32901.62792	0.16979	0.51169	0.1749	0.54451	6.59E-03	6.95E-06	1.83E-05	7.16E-06	1.87E-05	6.6401E-03
520574.77	4258851.53	32896.689	0.19655	0.12405	0.18936	0.12913	6.59E-03	8.05E-06	4.44E-06	7.75E-06	4.43E-06	6.6127E-03
520473.6	4259020.41	32890.61152	0.30888	0.12178	0.29578	0.12782	6.59E-03	1.26E-05	4.36E-06	1.21E-05	4.39E-06	6.6203E-03
519961.27	4258837.83	32881.34844	0.93931	0.47254	1.05885	0.45815	6.58E-03	3.85E-05	1.69E-05	4.34E-05	1.57E-05	6.6994E-03
520092.5	4259085.69	32860.31542	13.99496	0.2623	13.16474	0.2464	6.58E-03	5.73E-04	9.38E-06	5.39E-04	8.46E-06	7.7106E-03
520581.78	4258834.8	32854.27931	0.19034	0.12517	0.18343	0.13011	6.58E-03	7.79E-06	4.48E-06	7.51E-06	4.47E-06	6.6038E-03
520588.23	4258402.59	32851.08815	0.15465	0.17444	0.15194	0.18296	6.58E-03	6.33E-06	6.24E-06	6.22E-06	6.28E-06	6.6040E-03
520513.73	4258143.78	32844.6106	0.15061	0.25844	0.15415	0.27316	6.58E-03	6.17E-06	9.24E-06	6.31E-06	9.38E-06	6.6087E-03
520589.45	4258354.05	32826.55231	0.1501	0.17728	0.14849	0.18639	6.57E-03	6.15E-06	6.34E-06	6.08E-06	6.40E-06	6.5989E-03
520295.94	4258142.99	32823.42032	0.19104	0.89476	0.20163	0.97308	6.57E-03	7.82E-06	3.20E-05	8.26E-06	3.34E-05	6.6548E-03
520585.28	4258826.43	32793.13729	0.1873	0.12562	0.18047	0.1305	6.57E-03	7.67E-06	4.49E-06	7.39E-06	4.48E-06	6.5913E-03
520541.55	4258175.72	32778.14398	0.14748	0.22659	0.14964	0.23941	6.56E-03	6.04E-06	8.10E-06	6.13E-06	8.22E-06	6.5928E-03
520315.55	4258133.05	32774.58458	0.18559	0.78025	0.19503	0.84475	6.56E-03	7.60E-06	2.79E-05	7.99E-06	2.90E-05	6.6361E-03
520005.1	4258986.02	32754.29659	2.07543	0.30062	2.45611	0.29681	6.56E-03	8.50E-05	1.08E-05	1.01E-04	1.02E-05	6.7660E-03
520567.36	4258226.81	32754.21223	0.14508	0.20272	0.14474	0.21271	6.56E-03	5.94E-06	7.25E-06	5.93E-06	7.30E-06	6.5859E-03
520374.34	4258113.24	32741.87632	0.17141	0.54119	0.17698	0.5777	6.56E-03	7.02E-06	1.94E-05	7.25E-06	1.98E-05	6.6105E-03
519977.12	4258683.15	32741.09058	0.77385	1.02154	0.89796	0.94941	6.56E-03	3.17E-05	3.65E-05	3.68E-05	3.26E-05	6.6944E-03
520058.1	4258461.19	32738.39523	0.50816	12.63619	0.55853	7.66387	6.56E-03	2.08E-05	4.52E-04	2.29E-05	2.63E-04	7.3151E-03
520506.54	4258976.76	32731.79435	0.26534	0.1215	0.25437	0.12711	6.55E-03	1.09E-05	4.35E-06	1.04E-05	4.36E-06	6.5850E-03
520531.99	4258161.61	32713.23906	0.14839	0.23682	0.15117	0.25038	6.55E-03	6.08E-06	8.47E-06	6.19E-06	8.60E-06	6.5806E-03
520246.91	4258172.84	32709.68868	0.20519	1.32046	0.21624	1.45226	6.55E-03	8.40E-06	4.72E-05	8.85E-06	4.99E-05	6.6649E-03
520556.85	4258202.29	32695.71133	0.1458	0.21194	0.14665	0.2232	6.55E-03	5.97E-06	7.58E-06	6.00E-06	7.66E-06	6.5750E-03
520497.39	4258990.55	32694.07824	0.27665	0.12152	0.26513	0.12715	6.55E-03	1.13E-05	4.35E-06	1.09E-05	4.37E-06	6.5783E-03
520276.33	4258152.93	32687.27995	0.19611	1.03649	0.20731	1.1326	6.55E-03	8.03E-06	3.71E-05	8.49E-06	3.89E-05	6.6385E-03
520188.02	4258222.66	32663.1605	0.22759	2.39755	0.23421	2.69893	6.54E-03	9.32E-06	8.58E-05	9.59E-06	9.27E-05	6.7386E-03
520515.86	4258962.89	32653.16147	0.25442	0.12132	0.24405	0.12693	6.54E-03	1.04E-05	4.34E-06	9.99E-06	4.36E-06	6.5683E-03
520588.78	4258818.06	32643.84059	0.18422	0.12587	0.17741	0.13071	6.54E-03	7.54E-06	4.50E-06	7.26E-06	4.49E-06	6.5612E-03
520606.58	4258751.6	32638.75295	0.16779	0.13125	0.16124	0.13627	6.54E-03	6.87E-06	4.69E-06	6.60E-06	4.68E-06	6.5592E-03
520548.45	4258909.37	32629.56327	0.22089	0.12142	0.21266	0.12694	6.53E-03	9.04E-06	4.34E-06	8.71E-06	4.36E-06	6.5610E-03
520178.2	4258232.63	32626.78859	0.23236	2.70823	0.23826	3.06413	6.53E-03	9.51E-06	9.76E-05	9.76E-06	1.05E-04	6.7553E-03
519977.29	4258924.58	32609.04867	1.2946	0.35141	1.46809	0.34617	6.53E-03	5.30E-05	1.26E-05	6.01E-05	1.19E-05	6.6680E-03
520197.84	4258212.69	32589.05939	0.22276	2.14049	0.23019	2.39715	6.53E-03	9.12E-06	7.66E-05	9.42E-06	8.23E-05	6.7038E-03
520525.35	4258948.96	32559.66817	0.24404	0.12106	0.23432	0.12667	6.52E-03	9.99E-06	4.33E-06	9.59E-06	4.35E-06	6.5488E-03
519990.66	4258960.07	32552.76768	1.61672	0.31875	1.86574	0.3149	6.52E-03	6.62E-05	1.14E-05	7.64E-05	1.08E-05	6.6839E-03
520335.16	4258123.12	32545.83285	0.1799	0.68629	0.18802	0.73972	6.52E-03	7.37E-06	2.45E-05	7.70E-06	2.54E-05	6.5828E-03
520053.74	4259053.64	32542.44544	7.08229	0.26004	11.85116	0.25957	6.52E-03	2.90E-04	9.62E-06	4.85E-04	8.91E-06	7.3108E-03
520586.13	4258294.93	32511.30218	0.14565	0.18537	0.14504	0.19371	6.51E-03	5.96E-06	6.63E-06	5.94E-06	6.65E-06	6.5360E-03
520364.56	4258113.21	32494.73252	0.17287	0.57311	0.179	0.61356	6.51E-03	7.08E-06	2.05E-05	7.33E-06	2.11E-05	6.5635E-03
519963.37	4258746.45	32481.24864	0.79004	0.70647	0.88865	0.66762	6.50E-03	3.23E-05	2.53E-05	3.68E-05	2.29E-05	6.6221E-03
520168.38	4258242.6	32471.40524	0.23705	3.08983	0.2424	3.51282	6.50E-03	9.71E-06	1.11E-04	9.92E-06	1.21E-04	6.7536E-03
520129.07	4258292.47	32470.72519	0.26654	6.05791	0.27323	7.08338	6.50E-03	1.09E-05	2.17E-04	1.12E-05	2.43E-04	6.9847E-03
520043.82	4259043.65	32454.85322	5.08094	0.27154	7.11513	0.26374	6.50E-03	2.08E-04	9.71E-06	2.91E-04	9.05E-06	7.0177E-03
520109.4	4258322.41	32446.66255	0.28827	10.04247	0.29897	11.82327	6.50E-03	1.18E-05	3.59E-04	1.22E-05	4.06E-04	7.2870E-03
520522.58	4258147.57	32437.09263	0.14889	0.24786	0.15216	0.262	6.50E-03	6.10E-06	8.87E-06	6.23E-06	8.99E-06	6.5262E-03
520207.66	4258202.72	32433.04942	0.21793	1.92423	0.22614	2.14483	6.50E-03	8.92E-06	6.88E-05	9.26E-06	7.36E-05	6.6558E-03
520584.79	4258284.34	32428.20931	0.14504	0.18726	0.14434	0.19547	6.49E-03	5.94E-06	6.70E-06	5.91E-06	6.71E-06	6.5194E-03
520535.04	4258934.94	32397.85056	0.23408	0.12072	0.22499	0.1263	6.49E-03	9.58E-06	4.32E-06	9.21E-06	4.34E-06	6.5156E-03
520610.59	4258718.1	32371.18091	0.16285	0.13434	0.15654	0.13976	6.48E-03	6.67E-06	4.81E-06	6.41E-06	4.80E-06	6.5055E-03
520595.79	4258801.33	32356.25933	0.17832	0.12669	0.17166	0.13138	6.48E-03	7.30E-06	4.53E-06	7.03E-06	4.51E-06	6.5032E-03
519961.82	4258863.29	32351.42892	0.98312	0.42712	1.10382	0.41666	6.48E-03	4.03E-05	1.53E-05	4.52E-05	1.43E-05	6.5938E-03
519994.72	4258971.74	32324.60661	1.73404	0.30891	2.01348	0.3053	6.47E-03	7.10E-05	1.10E-05	8.24E-05	1.05E-05	6.6484E-03
520569.61	4258870.59	32305.87407	0.20164	0.12218	0.19439	0.12735	6.47E-03	8.26E-06	4.37E-06	7.96E-06	4.37E-06	6.4946E-03
520566.46	4258216.42	32265.69377	0.14427	0.20369	0.14428	0.21398	6.46E-03	5.91E-06	7.29E-06	5.91E-06	7.35E-06	6.4881E-03
519978.91	4258935.24	32264.74106	1.33665	0.33956	1.51855	0.33484	6.46E-03	5.47E-05	1.21E-05	6.22E-05	1.15E-05	6.6020E-03
520583.58	4258273.81	32264.55492	0.14438	0.18892	0.14357	0.19708	6.46E-03	5.91E-06	6.76E-06	5.88E-06	6.77E-06	6.4867E-03
519957.99	4258805.82	32255.06124	0.85013	0.53373	0.95462	0.51293	6.46E-03	3.48E-05	1.91E-05	3.91E-05	1.76E-05	6.5701E-03
520588.97	4258306.16	32252.37029	0.14577	0.18224	0.14515	0.19076	6.46E-03	5.97E-06	6.52E-06	5.94E-06	6.55E-06	6.4840E-03
520256.73	4258162.87	32241.22881	0.20026	1.21542	0.21139	1.33291	6.46E-03	8.20E-06	4.35E-05	8.66E-06	4.58E-05	6.5628E-03
520558.15	4258895.35	32231.56585	0.21202	0.12116	0.20436	0.12652	6.45E-03	8.68E-06	4.33E-06	8.37E-06	4.34E-06	6.4805E-03
520491.58	4259002.97	32226.13509	0.28424	0.12072	0.27244	0.12635	6.45E-03	1.16E-05	4.32E-06	1.12E-05	4.34E-06	6.4852E-03
520590.23	4258316.71	32224.54009	0.14636	0.18024	0.14563	0.18897	6.45E-03	5.99E-06	6.45E-06	5.96E-06	6.49E-06	6.4783E-03
520158.56	4258252.57	32223.71944	0.24172	3.56535	0.24668	4.07895	6.45E-03	9.90E-06	1.28E-04	1.01E-05	1.40E-04	6.7408E-03
520599.29	4258792.96	32221.33439	0.17552	0.12712	0.16893	0.13174	6.45E-03	7.19E-06	4.55E-06	6.92E-06	4.52E-06	6.4759E-03
520217.48	4258192.75	32215.15415	0.21315	1.73998	0.22205	1.93184	6.45E-03	8.73E-06	6.22E-05	9.09E-06	6.63E-05	6.5979E-03
519960.48	4258763.6	32194.06734	0.79502	0.64671	0.90144	0.61361	6.45E-03	3.26E-05	2.31E-05	3.69E-05	2.11E-05	6.5610E-03
520354.77	4258113.18	32140.77593	0.1741	0.60803	0.18093	0.65245	6.44E-03	7.13E-06	2.17E-05	7.41E-06	2.24E-05	6.4953E-03
520305.76	4258133.02	32128.48256	0.1861	0.83579	0.19617	0.90664	6.43E-03	7.62E-06	2.99E-05	8.03E-06	3.11E-05	6.5108E-03
520556.14	4258191.98	32126.732	0.1449	0.21283	0.1461	0.22434	6.43E-03	5.93E-06	7.61E-06	5.98E-06	7.70E-06	6.4610E-03
520591.96	4258386.53	32126.37063	0.15183	0.17333	0.14932	0.18188	6.43E-03	6.22E-06	6.20E-06	6.11E-06	6.24E-06	6.4585E-03
520610.12	4258743.17	32125.26936	0.16512	0.13119	0.15872	0.1363	6.43E-03	6.76E-06	4.69E-06	6.50E-06	4.68E-06	6.4562E-03
520611.24	4258692.6	32117.66086	0.16054	0.13808	0.15438	0.14336	6.43E-03	6.57E-06	4.94E-06	6.32E-06	4.92E-06	6.4548E-03
520540.9	4258165.43	32081.95113	0.14633	0.22769	0.14876	0.2406	6.42E-03	5.99E-06	8.14E-06	6.09E-06	8.26E-06	6.4533E-03
520482.29	4259016.82	32081.43552	0.29671	0.12041	0.28447	0.12618	6.42E-03	1.21E-05	4.31E-06	1.16E-05	4.33E-06	6.4572E-03
520286.15	4258142.96	32067.56982	0.19113	0.96322	0.20202	1.04961	6.42E-03	7.83E-06	3.45E-05	8.27E-06	3.60E-05	6.5086E-03
520582.48	4258263.33	32050.59516	0.1437	0.19032	0.1428	0.19856	6.42E-03	5.88E-06	6.81E-06	5.85E-06	6.82E-06	6.4439E-03
520592.92	4258363.18	32019.37044	0.14953	0.17438	0.14755	0.18324	6.41E-03	6.12E-06	6.24E-06	6.04E-06	6.29E-06	6.4370E-03
520009.77	4258589.36	32014.54136	0.78119	2.20028	0.95204	1.92767	6.41E-03	3.20E-05	7.87E-05	3.90E-05	6.62E-05	6.6272E-03
519957.49	4258828.73	32009.46943	0.88024	0.48485	0.98874	0.46868	6.41E-03	3.60E-05	1.73E-05	4.05E-05	1.61E-05	6.5203E-03
520550.53	4258179.56	32008.92671	0.14523	0.2181	0.14699	0.23022	6.41E-03	5.95E-06	7.80E-06	6.02E-06	7.90E-06	6.4379E-03
520082.6	4259085.7	31994.17233	14.69285	0.25847	22.56179	0.24438	6.41E-03	6.02E-04	9.25E-06	9.24E-04	8.39E-06	7.9503E-03
520602.8	4258784.59	31989.46305	0.17271	0.1274	0.16617	0.132	6.41E-03	7.07E-06	4.56E-06	6.80E-06	4.53E-06	6.4293E-03
520325.37	4258123.09	31972.43202	0.18062	0.73213	0.18956	0.79031	6.40E-03	7.40E-06	2.62E-05	7.76E-06	2.71E-05	6.4714E-03
520531.44	4258151.36	31937.51567	0.14704	0.23809	0.15003	0.2516	6.40E-03	6.02E-06	8.52E-06	6.14E-06	8.64E-06	6.4252E-03
520064.47	4258422.61	31935.28788	0.40487	21.21994	0.43947	9.91515	6.40E-03	1.66E-05	7.59E-04	1.80E-05	3.40E-04	7.5295E-03
519987.12	4258846.05	31929.97772	0.75698	1.30981	0.88771	1.20129	6.39E-03	3.10E-05	4.69E-05	3.63E-05	4.12E-05	6.5498E-03
520227.3	4258182.78	31928.9116	0.20839	1.58174	0.21789	1.74948	6.39E-03	8.53E-06	5.66E-05	8.92E-06	6.01E-05	6.5283E-03
520577.31	4258241.09	31915.76491	0.14319	0.19485	0.1424	0.20382	6.39E-03	5.86E-06	6.97E-06	5.83E-06	7.00E-06	6.4172E-03
519965.06	4258726.4	31899.80057	0.76094	0.77682	0.86586	0.73155	6.39E-03	3.12E-05	2.78E-05	3.55E-05	2.51E-05	6.5079E-03
520148.74	4258262.53	31855.61639	0.24629	4.17347	0.25114	4.80852	6.38E-03	1.01E-05	1.49E-04	1.03E-05	1.65E-04	6.7142E-03
520039.48	4258521.35	31854.61498	0.70501	5.32347	0.8131	4.14493	6.38E-03	2.89E-05	1.90E-04	3.33E-05	1.42E-04	6.7742E-03
520547.41	4258919.81	31843.13576	0.22228	0.11985	0.21397	0.12531	6.38E-03	9.10E-06	4.29E-06	8.76E-06	4.30E-06	6.4035E-03
519980.41	4258945.85	31838.57757	1.37607	0.32825	1.56584	0.32399	6.38E-03	5.63E-05	1.17E-05	6.41E-05	1.11E-05	6.5194E-03
520591.56	4258411.35	31829.52838	0.15389	0.17172	0.15101	0.18003	6.37E-03	6.30E-06	6.14E-06	6.18E-06	6.18E-06	6.3991E-03
520584.66	4258470.82	31814.54817	0.16088	0.17043	0.1569	0.17915	6.37E-03	6.59E-06	6.10E-06	6.42E-06	6.15E-06	6.3966E-03
520581.47	4258252.88	31767.8999	0.14297	0.19155	0.14207	0.19993	6.36E-03	5.85E-06	6.85E-06	5.82E-06	6.86E-06	6.3873E-03
520092.52	4259095.69	31764.86042	13.92233	0.25481	13.11874	0.23955	6.36E-03	5.70E-04	9.11E-06	5.37E-04	8.22E-06	7.4859E-03
520266.55	4258152.9	31762.23995	0.1955	1.1224	0.20655	1.22803	6.36E-03	8.00E-06	4.01E-05	8.46E-06	4.22E-05	6.4596E-03
519957.47	4258780.46	31747.74165	0.7977	0.59335	0.89795	0.56586	6.36E-03	3.27E-05	2.12E-05	3.68E-05	1.94E-05	6.4680E-03
520565.63	4258206.05	31740.88508	0.14341	0.20464	0.14382	0.21517	6.36E-03	5.87E-06	7.32E-06	5.89E-06	7.39E-06	6.3830E-03
520505.88	4258987.04	31739.74378	0.26639	0.11976	0.25545	0.12525	6.36E-03	1.09E-05	4.28E-06	1.05E-05	4.30E-06	6.3863E-03
520344.98	4258113.15	31715.66721	0.17514	0.64619	0.18273	0.69481	6.35E-03	7.17E-06	2.31E-05	7.48E-06	2.39E-05	6.4131E-03
520588.1	4258881.22	31712.53887	0.20338	0.12084	0.19621	0.126	6.35E-03	8.33E-06	4.32E-06	8.03E-06	4.33E-06	6.3759E-03
519958.09	4258854.28	31706.7313	0.92404	0.43815	1.03555	0.42636	6.35E-03	3.78E-05	1.57E-05	4.24E-05	1.46E-05	6.4602E-03
519996.06	4258982.29	31705.13852	1.78063	0.29923	2.07202	0.29581	6.35E-03	7.29E-05	1.07E-05	8.48E-05	1.02E-05	6.5280E-03
520515.09	4258973.22	31704.2651	0.25556	0.11968	0.2452	0.12516	6.35E-03	1.05E-05	4.28E-06	1.00E-05	4.30E-06	6.3783E-03
519968	4258709.38	31650.04219	0.74783	0.851	0.85449	0.79838	6.34E-03	3.06E-05	3.04E-05	3.50E-05	2.74E-05	6.4618E-03
520524.46	4258959.33	31646.80486	0.24526	0.1195	0.23551	0.12498	6.34E-03	1.00E-05	4.27E-06	9.64E-06	4.29E-06	6.3660E-03
520614.15	4258709.59	31621.31942	0.16033	0.13433	0.15419	0.13965	6.33E-03	6.56E-06	4.80E-06	6.31E-06	4.79E-06	6.3551E-03
520119.25	4258302.44	31619.70295	0.22075	7.6361	0.27879	8.93373	6.33E-03	1.11E-05	2.73E-04	1.14E-05	3.07E-04	6.9346E-03
520237.12	4258172.81	31583.94638	0.20366	1.44462	0.21364	1.59203	6.33E-03	8.34E-06	5.17E-05	8.75E-06	5.47E-05	6.4485E-03
520054.17	4259063.64	31582.23473	7.21075	0.26145	12.25302	0.25224	6.32E-03	2.95E-04	9.35E-06	5.02E-04	8.66E-06	7.1397E-03
520576.36	4258230.63	31562.40375	0.1425	0.19598	0.1419	0.20517	6.32E-03	5.83E-06	7.01E-06	5.81E-06	7.04E-06	6.3465E-03
520534.01	4258945.37	31515.63945	0.23537	0.1192	0.22623	0.12467	6.31E-03	9.64E-06	4.26E-06	9.26E-06	4.28E-06	6.3389E-03
520556.96	4258905.85	31512.34601	0.23153	0.11963	0.2058	0.12497	6.31E-03	8.74E-06	4.28E-06	8.43E-06	4.29E-06	6.3365E-03
519977.12	4258673.87	31495.96201	0.74121	1.06119	0.85902	0.98478	6.31E-03	3.03E-05	3.80E-05	3.52E-05	3.38E-05	6.4448E-03
520043.84	4259053.65	31481.61187	5.10533	0.26359	7.14471	0.25607	6.30E-03	2.09E-04	9.43E-06	2.93E-04	8.79E-06	6.8244E-03
520295.97	4258132.99	31427.93502	0.18629	0.89749	0.19681	0.97525	6.29E-03	7.63E-06	3.21E-05	8.06E-06	3.35E-05	6.3751E-03
520315.58	4258123.05	31419.84279	0.1813	0.78243	0.19087	0.84655	6.29E-03	7.42E-06	2.80E-05	7.82E-06	2.91E-05	6.3645E-03
519964.02	4258899.11	31416.81936	1.05613	0.37474	1.18381	0.36788	6.29E-03	4.32E-05	1.34E-05	4.85E-05	1.26E-05	6.4004E-03
520609.8	4258767.86	31387.2034	0.16728	0.1278	0.16089	0.13246	6.29E-03	6.85E-06	4.57E-06	6.

519969.92	4258931.53	30860.23905	1.17707	0.33783	1.32387	0.33298	6.18E-03	4.82E-05	1.21E-05	5.42E-05	1.14E-05	6.3061E-03
520207.69	4258192.72	30856.11684	0.21047	1.92969	0.21768	2.14903	6.18E-03	8.62E-06	6.90E-05	8.91E-06	7.38E-05	6.3397E-03
520168.41	4258232.6	30832.86998	0.22799	3.09585	0.23237	3.52199	6.17E-03	9.33E-06	1.11E-04	9.51E-06	1.21E-04	6.4252E-03
520592.39	4258277.58	30824.58883	0.1418	0.18238	0.14096	0.19027	6.17E-03	5.81E-06	6.52E-06	5.77E-06	6.53E-06	6.1977E-03
520305.79	4258123.02	30811.33793	0.18169	0.83807	0.19175	0.90866	6.17E-03	7.44E-06	3.00E-05	7.85E-06	3.12E-05	6.2469E-03
520617.71	4258701.09	30801.21817	0.15785	0.13437	0.15188	0.13954	6.17E-03	6.46E-06	4.81E-06	6.22E-06	4.79E-06	6.1906E-03
520256.76	4258152.87	30797.56408	0.1945	1.21921	0.20499	1.33579	6.17E-03	7.96E-06	4.36E-05	8.39E-06	4.59E-05	6.2735E-03
520555.86	4258916.31	30793.62712	0.21491	0.1181	0.20711	0.12339	6.17E-03	8.80E-06	4.22E-06	8.48E-06	4.24E-06	6.1926E-03
520594.9	4258420.11	30788.66838	0.15308	0.16901	0.15004	0.17715	6.17E-03	6.27E-06	6.05E-06	6.14E-06	6.08E-06	6.1904E-03
520514.38	4258983.52	30776.1757	0.25658	0.11803	0.24623	0.12339	6.16E-03	1.05E-05	4.22E-06	1.01E-05	4.24E-06	6.1924E-03
520523.64	4258969.68	30760.06364	0.24638	0.11793	0.23663	0.12329	6.16E-03	1.01E-05	4.22E-06	9.69E-06	4.23E-06	6.1883E-03
520549.16	4258158.95	30749.78604	0.14312	0.22016	0.14543	0.23248	6.16E-03	5.86E-06	7.87E-06	5.95E-06	7.98E-06	6.1857E-03
520574.41	4258209.81	30748.08572	0.14102	0.19775	0.14102	0.20757	6.16E-03	5.77E-06	7.07E-06	5.77E-06	7.13E-06	6.1835E-03
520129.1	4258282.47	30738.19044	0.2549	6.07117	0.26074	7.10685	6.16E-03	1.04E-05	2.17E-04	1.07E-05	2.44E-04	6.6380E-03
520588.13	4258479.95	30737.68809	0.15972	0.16765	0.15539	0.17618	6.16E-03	6.54E-06	6.00E-06	6.36E-06	6.05E-06	6.1806E-03
520600.18	4258814.77	30732.76992	0.17666	0.12304	0.17029	0.12761	6.15E-03	7.23E-06	4.40E-06	6.97E-06	4.38E-06	6.1776E-03
520286.18	4258132.96	30695.77106	0.18621	0.96613	0.19687	1.0518	6.15E-03	7.62E-06	3.46E-05	8.06E-06	3.61E-05	6.2336E-03
520591.22	4258267.07	30693.47424	0.14117	0.1839	0.14023	0.19177	6.15E-03	5.78E-06	6.58E-06	5.74E-06	6.58E-06	6.1715E-03
520217.51	4258182.75	30679.15479	0.20611	1.74496	0.21402	1.93564	6.14E-03	8.44E-06	6.24E-05	8.76E-06	6.65E-05	6.2900E-03
520533.07	4258955.77	30673.40377	0.23659	0.1177	0.22742	0.12306	6.14E-03	9.69E-06	4.21E-06	9.31E-06	4.22E-06	6.1702E-03
520092.95	4259106.51	30670.84015	13.6661	0.24724	12.84313	0.23256	6.14E-03	5.60E-04	8.84E-06	5.26E-04	7.98E-06	7.2445E-03
520325.4	4258113.09	30666.78816	0.17655	0.73403	0.18567	0.7917	6.14E-03	7.23E-06	2.63E-05	7.60E-06	2.72E-05	6.2097E-03
520586.29	4258244.93	30654.73088	0.14063	0.13968	0.13968	0.19664	6.14E-03	5.76E-06	6.74E-06	5.72E-06	6.75E-06	6.1640E-03
519987.03	4258978.56	30637.52506	1.54638	0.29786	1.77303	0.29461	6.14E-03	6.33E-05	1.07E-05	7.26E-05	1.01E-05	6.2923E-03
520558.74	4258173.06	30619.89608	0.14201	0.21114	0.14367	0.22272	6.13E-03	5.81E-06	7.55E-06	5.88E-06	7.65E-06	6.1589E-03
520054.19	4259073.64	30617.15219	7.26964	0.25393	12.12973	0.24508	6.13E-03	2.98E-04	9.08E-06	5.05E-04	8.41E-06	6.9515E-03
519959.62	4258737.41	30612.00119	0.7284	0.71781	0.82353	0.67811	6.13E-03	2.98E-05	2.57E-05	3.37E-05	2.33E-05	6.2430E-03
520109.43	4258312.41	30608.24031	0.27444	10.07957	0.28436	11.60779	6.13E-03	1.12E-05	3.61E-04	1.16E-05	3.99E-04	6.9116E-03
520597.59	4258309.85	30596.09156	0.14309	0.17586	0.14229	0.18423	6.13E-03	5.86E-06	6.29E-06	5.83E-06	6.32E-06	6.1517E-03
520044.27	4259063.65	30585.63122	5.19516	0.25622	7.29918	0.24889	6.13E-03	2.13E-04	9.16E-06	2.99E-04	8.54E-06	6.6545E-03
520158.59	4258242.57	30565.13552	0.23218	3.57342	0.2363	4.08724	6.12E-03	9.51E-06	1.28E-04	9.68E-06	1.40E-04	6.4084E-03
520603.83	4258806.07	30552.04285	0.17371	0.1234	0.1674	0.1279	6.12E-03	7.11E-06	4.41E-06	6.85E-06	4.39E-06	6.1412E-03
519971.49	4258942.17	30535.43802	1.21249	0.32673	1.36552	0.32236	6.12E-03	4.96E-05	1.17E-05	5.59E-05	1.11E-05	6.2434E-03
519956.78	4258754.66	30535.33731	0.73503	0.65879	0.83063	0.62401	6.12E-03	3.01E-05	2.36E-05	3.40E-05	2.14E-05	6.2242E-03
519954.83	4258870.54	30524.50358	0.90651	0.40769	1.01069	0.39803	6.11E-03	3.71E-05	1.46E-05	4.14E-05	1.37E-05	6.2197E-03
520576.74	4258877.65	30523.4699	0.19672	0.11902	0.18992	0.12398	6.11E-03	8.05E-06	4.26E-06	7.78E-06	4.26E-06	6.1371E-03
520052.25	4258475.41	30515.15909	0.53939	9.10304	0.5953	6.26001	6.11E-03	2.21E-05	3.26E-04	2.44E-05	2.15E-04	6.6981E-03
520542.68	4258941.78	30503.6001	0.22714	0.11737	0.21855	0.1227	6.11E-03	9.30E-06	4.20E-06	8.95E-06	4.21E-06	6.1354E-03
520590.14	4258256.59	30502.96004	0.14051	0.18522	0.13951	0.19315	6.11E-03	5.75E-06	6.63E-06	5.71E-06	6.63E-06	6.1334E-03
520598.92	4258320.43	30472.73617	0.14355	0.17409	0.14261	0.18261	6.10E-03	5.88E-06	6.23E-06	5.84E-06	6.27E-06	6.1268E-03
520227.33	4258172.78	30442.84493	0.20176	1.58622	0.21031	1.75311	6.10E-03	8.26E-06	5.67E-05	8.61E-06	6.02E-05	6.2304E-03
520565.46	4258902.33	30430.93096	0.20651	0.11789	0.19926	0.12305	6.09E-03	8.46E-06	4.22E-06	8.16E-06	4.22E-06	6.1193E-03
520600.05	4258356.04	30418.15247	0.14617	0.17048	0.14424	0.17908	6.09E-03	5.98E-06	6.10E-06	5.91E-06	6.15E-06	6.1158E-03
520499.65	4259009.63	30417.18262	0.27439	0.11722	0.26322	0.12261	6.09E-03	1.12E-05	4.19E-06	1.08E-05	4.21E-06	6.1219E-03
520607.47	4258797.37	30415.33493	0.17092	0.12383	0.16468	0.12826	6.09E-03	7.00E-06	4.43E-06	6.74E-06	4.40E-06	6.1137E-03
520585.17	4258234.44	30382.81778	0.13998	0.18948	0.13915	0.19798	6.08E-03	5.73E-06	6.78E-06	5.70E-06	6.80E-06	6.1096E-03
520509.06	4258995.73	30360.36059	0.26283	0.11726	0.2522	0.12258	6.08E-03	1.08E-05	4.19E-06	1.03E-05	4.21E-06	6.1096E-03
519963.81	4258771.61	30337.46751	0.74219	0.60534	0.83205	0.57615	6.08E-03	3.04E-05	2.17E-05	3.41E-05	1.98E-05	6.1814E-03
520266.58	4258142.9	30326.54785	0.18996	1.12609	0.20056	1.22988	6.07E-03	7.78E-06	4.03E-05	8.21E-06	4.22E-05	6.1718E-03
520599.87	4258381.43	30326.09101	0.14824	0.16891	0.14568	0.17717	6.07E-03	6.07E-06	6.04E-06	5.96E-06	6.08E-06	6.0974E-03
520552.5	4258927.71	30318.18825	0.21814	0.11706	0.21013	0.12233	6.07E-03	8.93E-06	4.19E-06	8.60E-06	4.20E-06	6.0976E-03
520591.33	4258462.49	30315.10218	0.15729	0.16733	0.15347	0.17575	6.07E-03	6.44E-06	5.99E-06	6.28E-06	6.03E-06	6.0958E-03
520598.57	4258403.87	30297.38456	0.15041	0.16815	0.14753	0.1762	6.07E-03	6.16E-06	6.01E-06	6.04E-06	6.05E-06	6.0917E-03
520573.59	4258199.44	30296.99871	0.14024	0.19857	0.14061	0.20865	6.07E-03	5.74E-06	7.10E-06	5.76E-06	7.16E-06	6.0932E-03
520568.49	4258187.24	30283.54534	0.14058	0.20276	0.14151	0.21345	6.06E-03	5.76E-06	7.25E-06	5.79E-06	7.33E-06	6.0908E-03
520620.71	4258717.86	30251.49003	0.15754	0.13083	0.1516	0.13598	6.06E-03	6.45E-06	4.68E-06	6.21E-06	4.67E-06	6.0803E-03
520148.77	4258252.53	30222.6557	0.23636	4.18129	0.24039	4.82252	6.05E-03	9.68E-06	1.50E-04	9.84E-06	1.66E-04	6.3871E-03
519987.12	4258636.77	30218.75801	0.71727	1.35169	0.83822	1.23935	6.05E-03	2.94E-05	4.83E-05	3.43E-05	4.25E-05	6.2063E-03
519950.62	4258836.27	30170.00035	0.81552	0.46031	0.90954	0.44539	6.04E-03	3.34E-05	1.65E-05	3.72E-05	1.53E-05	6.1443E-03
519977.12	4258664.6	30164.16001	0.70839	1.09964	0.81929	1.01926	6.04E-03	2.90E-05	3.93E-05	3.35E-05	3.50E-05	6.1777E-03
520315.61	4258113.05	30155.39261	0.17715	0.78441	0.18677	0.84821	6.04E-03	7.25E-06	2.81E-05	7.65E-06	2.91E-05	6.1111E-03
520237.15	4258162.81	30148.99683	0.19744	1.44869	0.20653	1.59543	6.04E-03	8.08E-06	5.18E-05	8.46E-06	5.48E-05	6.1609E-03
519972.95	4258952.77	30148.38168	1.24635	0.31613	1.40542	0.31218	6.04E-03	5.10E-05	1.13E-05	5.75E-05	1.07E-05	6.1682E-03
520296	4258122.99	30137.57729	0.18174	0.89991	0.19209	0.97737	6.04E-03	7.44E-06	3.22E-05	7.86E-06	3.36E-05	6.1165E-03
520019.65	4258560.22	30132.39171	0.74116	2.91354	0.89039	2.46801	6.03E-03	3.03E-05	1.04E-04	3.65E-05	8.47E-05	6.2902E-03
520611.11	4258788.66	30106.58231	0.168	0.12399	0.16179	0.1284	6.03E-03	6.88E-06	4.43E-06	6.62E-06	4.41E-06	6.0516E-03
520620.31	4258742.75	30075.77263	0.15958	0.12775	0.15355	0.13267	6.02E-03	6.53E-06	4.57E-06	6.29E-06	4.55E-06	6.0450E-03
520584.14	4258223.98	30062.73988	0.13931	0.19044	0.13868	0.19922	6.02E-03	5.70E-06	6.81E-06	5.68E-06	6.84E-06	6.0455E-03
520558.02	4258162.74	30062.37317	0.14105	0.21205	0.14299	0.22377	6.02E-03	5.78E-06	7.58E-06	5.85E-06	7.68E-06	6.0473E-03
519949.95	4258810.54	30018.36199	0.77142	0.50845	0.85933	0.48876	6.01E-03	3.16E-05	1.82E-05	3.52E-05	1.68E-05	6.1133E-03
519976.51	4258964.23	30005.55781	1.31869	0.30637	1.49266	0.30281	6.01E-03	5.40E-05	1.10E-05	6.11E-05	1.04E-05	6.1455E-03
519989.93	4258628.23	29971.5234	0.71459	1.43795	0.83758	1.31416	6.00E-03	2.93E-05	5.14E-05	3.43E-05	4.51E-05	6.1623E-03
520575.29	4258888.25	29966.06145	0.19833	0.11762	0.19154	0.12259	6.00E-03	8.12E-06	4.21E-06	7.84E-06	4.21E-06	6.0255E-03
520119.28	4258292.44	29950.23357	0.25867	7.65376	0.26582	8.97114	6.00E-03	1.06E-05	2.74E-04	1.08E-05	3.08E-04	6.6012E-03
520621.27	4258692.58	29940.50118	0.15543	0.13437	0.14957	0.13937	6.00E-03	6.36E-06	4.81E-06	6.12E-06	4.78E-06	6.0181E-03
519951.13	4258861.61	29918.10723	0.85428	0.41773	0.95082	0.40681	5.99E-03	3.50E-05	1.49E-05	3.89E-05	1.40E-05	6.0943E-03
520081.05	4259106.53	29908.15166	16.4484	0.24371	21.66329	0.23068	5.99E-03	6.73E-04	8.72E-06	8.87E-04	7.92E-06	7.5666E-03
520522.88	4258980	29890.10105	0.24738	0.11636	0.23763	0.1216	5.99E-03	1.01E-05	4.16E-06	9.73E-06	4.17E-06	6.0141E-03
519950.72	4258788.29	29885.57995	0.742	0.55807	0.82879	0.53323	5.98E-03	3.04E-05	2.00E-05	3.39E-05	1.83E-05	6.0876E-03
520276.4	4258132.93	29885.52907	0.18568	1.04297	0.19619	1.13684	5.98E-03	7.60E-06	3.73E-05	8.03E-06	3.90E-05	6.0770E-03
520614.76	4258779.96	29877.46678	0.16532	0.12425	0.15916	0.12867	5.98E-03	6.77E-06	4.44E-06	6.52E-06	4.42E-06	6.0055E-03
520532.19	4258966.14	29850.63075	0.2377	0.11621	0.22852	0.12146	5.98E-03	9.73E-06	4.16E-06	9.36E-06	4.17E-06	6.0054E-03
519961.47	4258717.75	29841.8968	0.69994	0.78579	0.79296	0.7401	5.98E-03	2.87E-05	2.81E-05	3.25E-05	2.54E-05	6.0909E-03
520246.97	4258152.84	29818.0898	0.19318	1.32843	0.20268	1.45842	5.97E-03	7.91E-06	4.75E-05	8.30E-06	5.01E-05	6.0853E-03
520567.65	4258176.87	29799.73794	0.13976	0.20367	0.14104	0.21457	5.97E-03	5.72E-06	7.28E-06	5.77E-06	7.37E-06	5.9940E-03
520564.31	4258912.81	29772.73555	0.20788	0.11641	0.20056	0.12153	5.96E-03	8.51E-06	4.16E-06	8.21E-06	4.17E-06	5.9875E-03
519957.25	4258906.31	29764.15638	0.97511	0.35929	1.08573	0.35302	5.96E-03	3.99E-05	1.29E-05	4.45E-05	1.21E-05	6.0700E-03
520138.95	4258262.5	29751.17817	0.24035	4.98416	0.2447	5.7949	5.96E-03	9.84E-06	1.78E-04	1.00E-05	1.99E-04	6.3352E-03
520938.23	4258428.87	29743.27097	0.15233	0.16637	0.14903	0.17438	5.96E-03	6.23E-06	5.95E-06	6.10E-06	5.99E-06	5.9808E-03
520583.19	4258213.56	29716.0298	0.13862	0.19127	0.13827	0.20036	5.95E-03	5.68E-06	6.84E-06	5.66E-06	6.88E-06	5.9761E-03
520541.67	4258952.2	29694.63264	0.22826	0.1159	0.21964	0.12113	5.95E-03	9.35E-06	4.15E-06	8.99E-06	4.16E-06	5.9734E-03
520044.28	4259073.65	29679.73824	5.23124	0.24893	7.32551	0.24186	5.94E-03	2.14E-04	8.90E-06	3.00E-04	8.30E-06	6.4751E-03
520092.96	4259116.51	29678.54192	13.58657	0.24045	12.80452	0.22633	5.94E-03	5.56E-04	8.60E-06	5.24E-04	7.77E-06	7.0405E-03
519959.16	4258917.1	29659.89015	1.01005	0.34735	1.12566	0.34178	5.94E-03	4.14E-05	1.24E-05	4.61E-05	1.17E-05	6.0514E-03
520603.49	4258365.06	29653.60479	0.14558	0.16758	0.1433	0.17595	5.94E-03	5.96E-06	5.99E-06	5.87E-06	6.04E-06	5.9624E-03
520603.8	4258340	29614.43984	0.14345	0.16043	0.14192	0.17794	5.93E-03	5.87E-06	6.06E-06	5.81E-06	6.11E-06	5.9545E-03
520618.4	4258771.26	29596.68579	0.16269	0.12441	0.1566	0.12888	5.93E-03	6.66E-06	4.45E-06	6.41E-06	4.42E-06	5.9491E-03
520305.82	4258113.02	29563.1387	0.17739	0.84021	0.18738	0.91035	5.92E-03	7.26E-06	3.01E-05	7.67E-06	3.13E-05	5.9967E-03
519977.99	4258974.83	29555.105	1.35489	0.29677	1.53587	0.29352	5.92E-03	5.55E-05	1.06E-05	6.29E-05	1.01E-05	6.0579E-03
520551.34	4258938.19	29543.76146	0.21937	0.11561	0.21131	0.12081	5.92E-03	8.98E-06	4.14E-06	8.65E-06	4.15E-06	5.9425E-03
520623.82	4258734.39	29531.60268	0.15715	0.12764	0.15127	0.13261	5.91E-03	6.43E-06	4.57E-06	6.19E-06	4.55E-06	5.9356E-03
520065.62	4258402.25	29530.95626	0.35818	23.24203	0.38646	10.34739	5.91E-03	1.47E-05	8.31E-04	1.58E-05	3.55E-04	7.1310E-03
520624.24	4258709.43	29502.75622	0.15513	0.1307	0.14932	0.13577	5.91E-03	6.35E-06	4.67E-06	6.11E-06	4.66E-06	5.9301E-03
520508.34	4259006.03	29497.6433	0.2639	0.1156	0.2533	0.12083	5.91E-03	1.08E-05	4.13E-06	1.04E-05	4.15E-06	5.9368E-03
520188.08	4258202.66	29492.04914	0.21142	2.41065	0.21623	2.7072	5.91E-03	8.66E-06	8.62E-05	8.85E-06	9.29E-05	6.1029E-03
520099.61	4258322.38	29483.01474	0.27754	14.34204	0.2896	15.74337	5.90E-03	1.14E-05	5.13E-04	1.19E-05	5.40E-04	6.9811E-03
520197.9	4258192.69	29481.31525	0.20742	2.15197	0.21294	2.40538	5.90E-03	8.49E-06	7.70E-05	8.72E-06	8.26E-05	6.0808E-03
519960.94	4258927.82	29479.74552	1.04359	0.33595	1.16411	0.33097	5.90E-03	4.27E-05	1.20E-05	4.77E-05	1.14E-05	6.0175E-03
520517.8	4258892.11	29460.68813	0.25295	0.11558	0.24291	0.12077	5.90E-03	1.04E-05	4.13E-06	9.95E-06	4.15E-06	5.9285E-03
520603.35	4258390.56	29449.06011	0.14752	0.16631	0.14476	0.17428	5.90E-03	6.04E-06	5.95E-06	5.93E-06	5.98E-06	5.9215E-03
520178.26	4258212.63	29448.61668	0.21547	2.72122	0.21958	3.07519	5.90E-03	8.82E-06	9.73E-05	8.99E-06	1.06E-04	6.1182E-03
520009.73	4258579.66	29423.37035	0.72809	2.26632	0.88089	1.97516	5.89E-03	2.98E-05	8.11E-05	3.61E-05	6.78E-05	6.1072E-03
520256.79	4258142.87	29420.22081	0.18888	1.22288	0.19873	1.33782	5.89E-03	7.73E-06	4.37E-05	8.14E-06	4.59E-05	5.9973E-03
520595.26	4258248.77	29419.45348	0.13814	0.18202	0.13705	0.18978	5.89E-03	5.66E-06	6.51E-06	5.61E-06	6.52E-06	5.9159E-03
520286.22	4258122.96	29417.13699	0.18147	0.96868	0.19181	1.05373	5.89E-03	7.43E-06	3.46E-05	7.85E-06	3.62E-05	5.9773E-03
520207.72	4258182.72	29401.4435	0.20342	1.93439	0.20968	2.15295	5.89E-03	8.33E-06	6.92E-05	8.59E-06	7.39E-05	6.0481E-03
520588.99	4258865.44	29397.64856	0.18737	0.11776	0.18105	0.12246	5.89E-03	7.67E-06	4.21E-06	7.41E-06	4.20E-06	5.9108E-03
520052.9	4259085.75	29383.67035	6.97461	0.24471	11.40432	0.23647	5.88E-03	2.86E-04	8.75E-06	4.67E-04	8.12E-06	6.6539E-03
520592.6	4258856.82	29383.4287	0.18445	0.11816	0.17817	0.1228	5.88E-03	7.55E-06	4.23E-06	7.30E-06	4.22E-06	5.9077E-03
520573.97	4258898.8	29378.97059	0.19981	0.11619	0.19298	0.12116	5.88E-03	8.18E-06	4.16E-06	7.90E-06	4.16E-06	5.9079E-03
520601.21	4258281.36	29370.46162	0.19321	0.17611	0.18836	0.18376	5.88E-03	5.70E-06	6.30E-06	5.67E-06	6.31E-06	5.9058E-03
520601.87	4258412.54	29358.62034	0.14964	0.16561	0.1466	0.17348	5.88E-03	6.13E-06	5.92E-06	6.00E-06	5.96E-06	5.9035E-03
520577.46	4258191.09	29357.795	0.13822	0.1958	0.13875	0.20575	5.88E-03	5.66E-06	7.00E-06	5.68E-06	7.06E-06	5.9047E-03
520596.21	4258848.19	29355.35933	0.18155	0.11851	0.17529	0.12311	5.88E-03	7.43E-06	4.24E-06	7.18E-06	4.23E-06	5.9019E-03
520602.58	4258291.96	29350.57298	0.13973	0.17427	0.13892	0.18209	5.88E-03	5.72E-06	6.23E-06	5.69E-06	6.25E-06	5.9017E-03
519951.5	4258886.61	29347.9946	0.88734	0.38086	0.98587	0.37282	5.88E-03	3.63E-05	1.36E-05	4.04E-05	1.28E-05	5.9805E-03
519964.37	4258700.63	29347.31749	0.68451	0.85785	0.77825	0.80535	5.88E-03	2.80E-05	3.07E-05	3.19E-05	2.76E-05	5.9954E-03
520582.31	4258203.17	29340.82602	0.13791	0.19205	0.13789	0.20143	5.88E-03	5.65E-06	6.87E-06	5.65E-06	6.92E-06	5.9010E-03
520561.23	4258924.1	29339.01898	0.21076	0.11532	0.20325	0.12043	5.88E-03	8.63E-06	4.12E-06	8.32E-06	4.13E-06	5.9007E-03
520599.96	4258270.81	29329.30853	0.13866	0.1777	0.1377	0.18526	5.87E-03	5.68E-06	6.36E-06	5.64E-06	6.36E-06	5.8976E-03
520599.83	4258839.56	29306.02753	0.17867	0.11904	0.17253	0.12357	5.87E-03	7.32E-06	4.26E-06	7.06E-06	4.24E-06	5.8918E-03
520566.87	4258166.53	29300.67302	0.13889	0.20458	0.14049	0.21563	5.87E-03	5.69E-06	7.32E-06	5.75E-06	7.40E-06	5.8940E-03
520168.44	4258222.6	29294.07765	0.2194	3.10316	0.22303	3.52711	5.87E-03	8.98E-06	1.11E-04	9.13E-06	1.21E-04	6.1167E-03
519946.88	4258827.26	29284.18096	0.76567	0.47115	0.85116	0.45457	5.86E-03	3.13E-05	1.69E-05	3.48E-05	1.56E-05	5.9632E-03
520594.75	4258471.48	29260.49266	0.1562	0.1647	0.15207	0.17297	5.86E-03	6.40E-06	5.89E-06	6.23E-06	5.94E-06	5.8843E-03
520217.54	4258172.75	29252.7208	0.19941	1.74942	0.20639	1.93903	5.86E-03	8.16E-06	6.26E-05	8.45E-06	6.66E-05	6.0040E-03
520604.08	4258302.61	29246.65554	0.14019	0.17215	0.13933	0.18019	5.86E-03	5.74E-06	6.16E-06	5.70E-06	6.19E-06	5.8808E-03
520622.04	4258762.56	29242.38329	0.1601	0.12445	0.15409	0.129	5.86E-03	6.56E-06	4.45E-06	6.31E-06	4.43E-06	5.8779E-03
520603.44	4258830.94	29234.93289	0.17581	0.11954	0.16979	0.12401	5.85E-03	7.20E-06	4.28E-06	6.95E-06	4.26E-06	5.8774E-03
519947.43	4258852.69	29234.07246	0.8046	0.42785	0.89429	0.41549	5.85E-03	3.29E-05	1.53E-05	3.66E-05	1.43E-05	5.9536E-03
519962.58	4258938.49	29233.36053	1.07559	0.32504	1.20094	0.32057	5.85E-03	4.40E-05	1.16E-05	4.92E-05	1.10E-05	5.9702E-03
520598.82	4258260.31	29228.69255	0.13807	0.17907	0.13701	0.18663	5.85E-03	5.65E-06	6.41E-06	5.61E-06	6.41E-06	5.8775E-03
520594.07	4258238.25	29223.46303	0.13755	0.18318	0.1365	0.19113	5.85E-03	5.63E-06	6.55E-06	5.59E-06	6.56E-06	5.8767E-03
520129.13	4258272.47	29153.08279	0.2441	6.08444	0.24922	7.12524	5.84E-03	9.99E-06	2.18E-04	1.02E-05	2.45E-04	6.3207E-03
520607.05	4258822.31	29139.53497	0.17302	0.11993	0.16704	0.12433	5.84E-03	7.08E-06	4.29E-06	6.84E-06	4.27E-06	5.8581E-03
520158.62	4258232.57	29058.60602	0.2233	3.57944	0.22663	4.09779	5.82E-03	9.14E-06	1.28E-04	9.28E-06	1.41E-04	6.1065E-03
520227.36	4258162.78	29057.64762	0.19544	1.59025	0.20308	1.7563	5.82E-03	8.00E-06	5.69E-05	8.31E-06	6.03E-05	5.9527E-03
520531.37	4258976.48	29048.00529	0.23873	0.11473	0.22955	0.11985	5.82E-03	9.77E-06	4.10E-06

520052.91	4259095.75	28506.06325	7.03898	0.23793	11.46657	0.23001	5.71E-03	2.88E-04	8.51E-06	4.69E-04	7.90E-06	6.4828E-03
520247	4258142.84	28499.1456	0.18749	1.33201	0.19623	1.46067	5.71E-03	7.68E-06	4.76E-05	8.03E-06	5.01E-05	5.8208E-03
519943.73	4258843.77	28481.80603	0.75773	0.43783	0.84016	0.42397	5.70E-03	3.10E-05	1.57E-05	3.44E-05	1.46E-05	5.7995E-03
520575.73	4258170.32	28481.16013	0.13666	0.19752	0.13792	0.20788	5.70E-03	5.60E-06	7.07E-06	5.65E-06	7.14E-06	5.7292E-03
519968.96	4258971.1	28462.60928	1.19671	0.29556	1.34319	0.29226	5.70E-03	4.90E-05	1.06E-05	5.50E-05	1.00E-05	5.8246E-03
520621.5	4258787.81	28444.66187	0.16222	0.12114	0.15639	0.12534	5.70E-03	6.64E-06	4.33E-06	6.40E-06	4.30E-06	5.7181E-03
520586.44	4258194.93	28432.6273	0.1359	0.18918	0.136	0.19847	5.69E-03	5.56E-06	6.77E-06	5.57E-06	6.81E-06	5.7187E-03
519967.12	4258683.15	28430.92084	0.66159	0.93715	0.75594	0.87606	5.69E-03	2.71E-05	3.35E-05	3.10E-05	3.01E-05	5.8153E-03
520119.31	4258282.44	28417.51476	0.24746	7.67211	0.25389	8.99117	5.69E-03	1.01E-05	2.74E-04	1.04E-05	3.09E-04	6.2946E-03
520605.17	4258421.21	28408.84953	0.14884	0.16306	0.14564	0.17079	5.69E-03	6.09E-06	5.83E-06	5.96E-06	5.86E-06	5.7130E-03
520591.03	4258206.91	28403.96514	0.13565	0.18577	0.13523	0.19457	5.69E-03	5.55E-06	6.64E-06	5.54E-06	6.68E-06	5.7127E-03
520582.48	4258895.28	28362.25321	0.1934	0.11455	0.18699	0.11933	5.68E-03	7.92E-06	4.10E-06	7.66E-06	4.10E-06	5.7037E-03
520569.96	4258920.48	28360.18034	0.20372	0.19668	0.19858	0.21858	5.68E-03	8.34E-06	4.06E-06	8.05E-06	4.07E-06	5.7040E-03
519943.15	4258818.26	28329.46027	0.71866	0.48146	0.79565	0.46335	5.67E-03	2.94E-05	1.72E-05	3.26E-05	1.59E-05	5.7685E-03
520629.33	4258745.15	28322.19506	0.15505	0.1243	0.14929	0.12904	5.67E-03	6.35E-06	4.45E-06	6.11E-06	4.43E-06	5.6932E-03
520598.18	4258480.46	28318.75977	0.15507	0.16216	0.15061	0.17023	5.67E-03	6.35E-06	5.80E-06	6.17E-06	5.84E-06	5.6954E-03
519944.16	4258868.92	28276.81311	0.79249	0.39879	0.87663	0.38865	5.66E-03	3.24E-05	1.43E-05	3.59E-05	1.33E-05	5.7588E-03
520138.98	4258252.5	28242.72671	0.23061	4.9968	0.2344	5.7973	5.66E-03	9.44E-06	1.79E-04	9.60E-06	1.99E-04	6.0528E-03
520610.59	4258357.85	28242.26534	0.14235	0.16418	0.14014	0.17229	5.66E-03	5.83E-06	5.87E-06	5.74E-06	5.91E-06	5.6793E-03
519950.1	4258913.35	28183.23467	0.89965	0.34408	0.99588	0.33918	5.64E-03	3.68E-05	1.23E-05	4.08E-05	1.16E-05	5.7457E-03
520539.87	4258972.96	28183.00633	0.23036	0.11305	0.2217	0.11806	5.64E-03	9.43E-06	4.04E-06	9.08E-06	4.05E-06	5.6706E-03
520625.11	4258779.18	28180.6478	0.15968	0.12133	0.1539	0.12556	5.64E-03	6.54E-06	4.34E-06	6.30E-06	4.31E-06	5.6650E-03
520286.25	4258112.96	28168.93268	0.17673	0.97142	0.18677	1.05492	5.64E-03	7.24E-06	3.47E-05	7.65E-06	3.62E-05	5.7271E-03
520604.24	4258252.61	28162.2107	0.13566	0.17589	0.13451	0.18321	5.64E-03	5.55E-06	6.29E-06	5.51E-06	6.29E-06	5.6635E-03
520256.82	4258132.87	28150.53498	0.18353	1.22607	0.19269	1.33991	5.64E-03	7.51E-06	4.39E-05	7.89E-06	4.60E-05	5.7428E-03
520084.96	4259127.18	28140.38529	15.52793	0.23098	19.02608	0.21864	5.64E-03	6.36E-04	8.26E-06	7.79E-04	7.51E-06	7.0660E-03
520197.93	4258182.69	28100.50236	0.20038	2.1567	0.20506	2.40895	5.63E-03	8.20E-06	7.71E-05	8.40E-06	8.27E-05	5.8040E-03
520188.11	4258192.66	28099.73112	0.20406	2.41554	0.20806	2.71161	5.63E-03	8.36E-06	8.64E-05	8.52E-06	9.31E-05	5.8237E-03
519961.95	4258924.11	28093.21584	0.93018	0.33381	1.03038	0.32868	5.63E-03	3.81E-05	1.19E-05	4.22E-05	1.13E-05	5.7295E-03
520029.52	4258531.09	28085.34454	0.67132	3.92845	0.78019	3.20825	5.62E-03	2.75E-05	1.41E-04	3.19E-05	1.10E-04	5.9346E-03
520610.36	4258383.1	28082.16998	0.14426	0.16275	0.1415	0.17052	5.62E-03	5.91E-06	5.82E-06	5.79E-06	5.85E-06	5.6472E-03
520585.48	4258184.51	28064.15133	0.13521	0.18999	0.13569	0.19954	5.62E-03	5.54E-06	6.80E-06	5.56E-06	6.85E-06	5.6450E-03
520549.29	4258959.06	28050.02133	0.22144	0.11276	0.2133	0.11777	5.62E-03	9.07E-06	4.03E-06	8.73E-06	4.04E-06	5.6433E-03
520602.98	4258242.06	28048.07024	0.13513	0.1771	0.13395	0.18456	5.62E-03	5.53E-06	6.33E-06	5.48E-06	6.34E-06	5.6407E-03
520207.75	4258172.72	28045.99523	0.19672	1.93869	0.2021	2.15627	5.62E-03	8.05E-06	6.93E-05	8.27E-06	7.40E-05	5.7763E-03
519989.89	4258618.53	28036.40424	0.67422	1.47729	0.78852	1.35068	5.61E-03	2.76E-05	5.28E-05	3.23E-05	4.64E-05	5.7738E-03
520178.29	4258202.63	28015.28992	0.20768	2.72821	0.21112	3.07762	5.61E-03	8.50E-06	9.76E-05	8.64E-06	1.06E-04	5.8308E-03
520608.71	4258274.55	27971.33122	0.13616	0.17174	0.1352	0.17904	5.60E-03	5.57E-06	6.14E-06	5.54E-06	6.15E-06	5.6250E-03
520631.1	4258692.56	27969.62689	0.15058	0.13073	0.14498	0.13547	5.60E-03	6.17E-06	4.68E-06	5.94E-06	4.65E-06	5.6227E-03
520607.5	4258264.02	27944.95626	0.13563	0.17318	0.13456	0.1804	5.60E-03	5.55E-06	6.19E-06	5.51E-06	6.19E-06	5.6198E-03
520610.02	4258285.13	27936.61329	0.13665	0.17014	0.13576	0.17759	5.59E-03	5.60E-06	6.09E-06	5.56E-06	6.10E-06	5.6180E-03
519953.46	4258934.81	27933.87065	0.95938	0.32313	1.06346	0.31856	5.59E-03	3.93E-05	1.16E-05	4.35E-05	1.09E-05	5.6995E-03
520601.46	4258463.23	27932.8972	0.15277	0.1617	0.1488	0.1697	5.59E-03	6.26E-06	5.78E-06	6.09E-06	5.83E-06	5.6179E-03
520099.64	4258312.38	27931.524	0.2645	14.38467	0.27573	15.31853	5.59E-03	1.08E-05	5.15E-04	1.13E-05	5.26E-04	6.6562E-03
520217.57	4258162.75	27928.62509	0.19304	1.75331	0.19915	1.94212	5.59E-03	7.90E-06	6.27E-05	8.15E-06	6.67E-05	5.7385E-03
520558.88	4258945.08	27924.11751	0.21311	0.11253	0.20549	0.11751	5.59E-03	8.73E-06	4.03E-06	8.41E-06	4.03E-06	5.6174E-03
520094.88	4259137.17	27891.188	12.66773	0.22792	11.77934	0.21461	5.59E-03	5.19E-04	8.15E-06	4.82E-04	7.37E-06	6.6021E-03
520168.47	4258212.6	27876.75029	0.21133	3.1097	0.21431	3.53184	5.58E-03	8.65E-06	1.11E-04	8.77E-06	1.21E-04	5.8326E-03
520601.82	4258231.55	27876.01049	0.13455	0.17819	0.13344	0.18583	5.58E-03	5.51E-06	6.37E-06	5.46E-06	6.38E-06	5.6063E-03
520628.72	4258770.56	27867.10616	0.15717	0.12141	0.15146	0.1257	5.58E-03	6.44E-06	4.34E-06	6.20E-06	4.32E-06	5.6021E-03
520525.7	4258998.84	27861.99259	0.24477	0.11247	0.23532	0.11743	5.58E-03	1.00E-05	4.02E-06	9.63E-06	4.03E-06	5.6075E-03
520596.02	4258872.6	27853.51096	0.183	0.11472	0.17706	0.11925	5.58E-03	7.49E-06	4.10E-06	7.25E-06	4.09E-06	5.6010E-03
520611.47	4258295.76	27841.53692	0.13709	0.16826	0.13618	0.17591	5.58E-03	5.61E-06	6.02E-06	5.58E-06	6.04E-06	5.5989E-03
520599.6	4258864.04	27839.56553	0.18024	0.11513	0.17432	0.1196	5.58E-03	7.38E-06	4.12E-06	7.14E-06	4.11E-06	5.5986E-03
520535.28	4258984.87	27815.13624	0.235	0.12135	0.2261	0.1173	5.57E-03	9.62E-06	4.02E-06	9.26E-06	4.03E-06	5.5973E-03
520581.2	4258905.82	27813.78359	0.19476	0.11312	0.18827	0.11791	5.57E-03	7.97E-06	4.05E-06	7.71E-06	4.05E-06	5.5939E-03
520603.18	4258855.48	27813.06286	0.1775	0.11547	0.1716	0.1199	5.57E-03	7.27E-06	4.13E-06	7.03E-06	4.12E-06	5.5925E-03
520632.97	4258736.45	27781.71358	0.15262	0.12419	0.14701	0.12897	5.56E-03	6.25E-06	4.44E-06	6.02E-06	4.43E-06	5.5848E-03
519957.88	4258709.1	27781.67634	0.644	0.79196	0.72629	0.74641	5.56E-03	2.64E-05	2.83E-05	2.97E-05	2.56E-05	5.6737E-03
520050.29	4258455.9	27771.76966	0.45467	8.40345	0.49504	5.95118	5.56E-03	1.86E-05	3.01E-04	2.03E-05	2.04E-04	6.1055E-03
520266.64	4258122.9	27769.36693	0.17961	1.13225	0.18908	1.23339	5.56E-03	7.35E-06	4.05E-05	7.74E-06	4.23E-05	5.6591E-03
520606.77	4258846.93	27769.32782	0.17475	0.11584	0.16891	0.12022	5.56E-03	7.15E-06	4.14E-06	6.92E-06	4.13E-06	5.5835E-03
519944.31	4258893.39	27758.40357	0.82017	0.3652	0.90607	0.35769	5.56E-03	3.36E-05	1.31E-05	3.71E-05	1.23E-05	5.6550E-03
520227.39	4258152.78	27737.51884	0.18931	1.59437	0.19614	1.75823	5.55E-03	7.75E-06	8.03E-06	5.70E-05	8.03E-06	5.6880E-03
520568.67	4258931.02	27733.69225	0.20499	0.11226	0.19788	0.11717	5.55E-03	8.39E-06	4.02E-06	8.10E-06	4.02E-06	5.5786E-03
519955.25	4258945.46	27716.32044	0.98738	0.31291	1.09527	0.30882	5.55E-03	4.04E-05	1.12E-05	4.48E-05	1.06E-05	5.6576E-03
520610.35	4258838.37	27710.39394	0.17205	0.11639	0.16634	0.12071	5.55E-03	7.04E-06	4.16E-06	6.81E-06	4.14E-06	5.5715E-03
520129.16	4258262.47	27697.99358	0.23404	6.09769	0.23856	7.13881	5.55E-03	9.58E-06	2.18E-04	9.77E-06	2.45E-04	6.0294E-03
519942.4	4258792.34	27696.22017	0.67329	0.53008	0.74507	0.50712	5.55E-03	2.76E-05	1.90E-05	3.05E-05	1.74E-05	5.6410E-03
520053.34	4259105.75	27694.86895	7.23313	0.23162	11.83937	0.22392	5.55E-03	2.96E-04	8.28E-06	4.85E-04	7.69E-06	6.3432E-03
520043.01	4259095.77	27688.06454	5.09162	0.23346	7.00506	0.2271	5.54E-03	2.08E-04	8.35E-06	2.87E-04	7.80E-06	6.0563E-03
520600.74	4258221.08	27682.22474	0.13399	0.17902	0.13301	0.18695	5.54E-03	5.49E-06	6.40E-06	5.45E-06	6.42E-06	5.5675E-03
520584.59	4258174.11	27676.41057	0.13448	0.19078	0.13533	0.20055	5.54E-03	5.51E-06	6.82E-06	5.54E-06	6.89E-06	5.5673E-03
520613.06	4258306.46	27673.04476	0.13747	0.16623	0.13644	0.17408	5.54E-03	5.63E-06	5.95E-06	5.59E-06	5.98E-06	5.5650E-03
519940.03	4258834.84	27663.95346	0.71342	0.44753	0.78843	0.4322	5.54E-03	2.92E-05	1.60E-05	3.23E-05	1.48E-05	5.6324E-03
519958.3	4258956.71	27652.91168	1.03445	0.30348	1.14996	0.29979	5.54E-03	4.24E-05	1.09E-05	4.71E-05	1.03E-05	5.6485E-03
520610.3	4258408.81	27646.01308	0.14598	0.16118	0.14288	0.16873	5.54E-03	5.98E-06	5.77E-06	5.85E-06	5.79E-06	5.5596E-03
520158.65	4258222.57	27636.98135	0.21487	3.58758	0.21764	4.10158	5.53E-03	8.80E-06	1.28E-04	8.91E-06	1.41E-04	5.8215E-03
519940.49	4258860.07	27635.17538	0.74811	0.40804	0.82671	0.39653	5.53E-03	3.06E-05	1.46E-05	3.38E-05	1.36E-05	5.6270E-03
520613.93	4258829.81	27630.67172	0.16938	0.11684	0.16374	0.12108	5.53E-03	6.94E-06	4.18E-06	6.70E-06	4.16E-06	5.5554E-03
520614.34	4258341.83	27566.58129	0.13979	0.16307	0.13795	0.17115	5.52E-03	5.72E-06	5.83E-06	5.65E-06	5.88E-06	5.5437E-03
520634.33	4258709.28	27564.87933	0.15016	0.12722	0.14467	0.13203	5.52E-03	6.15E-06	4.55E-06	5.92E-06	4.53E-06	5.5414E-03
520109.49	4258292.41	27563.92643	0.25039	10.13268	0.25855	11.69529	5.52E-03	1.03E-05	3.62E-04	1.06E-05	4.02E-04	6.3048E-03
520237.21	4258142.81	27537.48385	0.18571	1.45586	0.19313	1.60058	5.51E-03	7.60E-06	5.21E-05	7.91E-06	5.49E-05	5.6373E-03
520613.99	4258366.77	27530.23864	0.14176	0.16155	0.13923	0.16942	5.51E-03	5.80E-06	5.78E-06	5.70E-06	5.82E-06	5.5364E-03
520617.51	4258821.26	27526.94163	0.16675	0.11722	0.16117	0.12139	5.51E-03	6.83E-06	4.19E-06	6.60E-06	4.17E-06	5.5344E-03
520595.42	4258198.77	27516.13011	0.13363	0.18284	0.13331	0.19155	5.51E-03	5.47E-06	6.54E-06	5.46E-06	6.58E-06	5.5345E-03
520632.33	4258761.93	27506.56169	0.15473	0.12139	0.14909	0.12578	5.51E-03	6.34E-06	4.34E-06	6.10E-06	4.32E-06	5.5297E-03
520019.6	4258550.53	27459.82134	0.68419	2.97292	0.80953	2.51846	5.50E-03	2.80E-05	1.06E-04	3.31E-05	8.65E-05	5.7532E-03
520608.47	4258429.88	27458.23525	0.148	0.16054	0.14464	0.16817	5.50E-03	6.06E-06	5.74E-06	5.92E-06	5.77E-06	5.5224E-03
520057.08	4258415.76	27448.96678	0.36667	11.88426	0.39541	7.52444	5.50E-03	1.50E-05	4.25E-04	1.62E-05	2.58E-04	6.2116E-03
520599.75	4258210.64	27437.19612	0.13339	0.17981	0.13263	0.18802	5.49E-03	5.46E-06	6.43E-06	5.43E-06	6.45E-06	5.5185E-03
520578.69	4258916.87	27406.65312	0.19699	0.11197	0.19038	0.11677	5.49E-03	8.07E-06	4.01E-06	7.79E-06	4.01E-06	5.5124E-03
520276.46	4258112.93	27402.68904	0.17588	1.04859	0.18549	1.13968	5.49E-03	7.20E-06	3.75E-05	7.59E-06	3.91E-05	5.5792E-03
520621.1	4258812.7	27396.93169	0.16416	0.11755	0.1586	0.12166	5.49E-03	6.72E-06	4.20E-06	6.49E-06	4.18E-06	5.5082E-03
520590.99	4258891.76	27365.80788	0.18728	0.1129	0.18121	0.11751	5.48E-03	7.67E-06	4.04E-06	7.42E-06	4.03E-06	5.5035E-03
519959.92	4258967.37	27361.92278	1.06385	0.29419	1.18396	0.29085	5.48E-03	4.36E-05	1.05E-05	4.85E-05	9.99E-06	5.5921E-03
520548.37	4258969.45	27354.25117	0.22244	0.1114	0.21427	0.11631	5.48E-03	9.11E-06	3.98E-06	8.77E-06	3.99E-06	5.5039E-03
520148.83	4258232.53	27319.36723	0.21835	4.1977	0.22112	4.84025	5.47E-03	8.94E-06	1.50E-04	9.05E-06	1.66E-04	5.8054E-03
519939.41	4258809.25	27297.74038	0.6738	0.49127	0.7433	0.47172	5.47E-03	2.76E-05	1.76E-05	3.04E-05	1.62E-05	5.5585E-03
519977.12	4258646.05	27291.23633	0.64282	1.16867	0.7375	1.08375	5.47E-03	2.63E-05	4.18E-05	3.02E-05	3.72E-05	5.6010E-03
519967.12	4258673.87	27285.32447	0.63489	0.96834	0.72391	0.9046	5.46E-03	2.60E-05	3.46E-05	2.96E-05	3.11E-05	5.5856E-03
520613.79	4258392.11	27274.69901	0.14355	0.16034	0.1406	0.16787	5.46E-03	5.88E-06	5.74E-06	5.76E-06	5.76E-06	5.4853E-03
520084.98	4259137.18	27268.55673	15.37999	0.22491	18.93128	0.21303	5.46E-03	6.30E-04	8.04E-06	7.75E-04	7.31E-06	6.8811E-03
519943.46	4258770.77	27265.29979	0.64668	0.57743	0.71605	0.55047	5.46E-03	2.65E-05	2.07E-05	2.93E-05	1.89E-05	5.5556E-03
520247.03	4258132.84	27261.20776	0.18202	1.33526	0.19002	1.46246	5.46E-03	7.45E-06	4.78E-05	7.78E-06	5.02E-05	5.5726E-03
519940.52	4258884.25	27259.08204	0.77518	0.37372	0.8546	0.36522	5.46E-03	3.17E-05	1.34E-05	3.50E-05	1.25E-05	5.5516E-03
520636.62	4258727.75	27252.83194	0.15032	0.12418	0.14488	0.12894	5.46E-03	6.15E-06	4.44E-06	5.93E-06	4.43E-06	5.4787E-03
519946.47	4258753.92	27243.4916	0.6377	0.62485	0.71251	0.59313	5.46E-03	2.61E-05	2.23E-05	2.92E-05	2.04E-05	5.5539E-03
520624.68	4258804.14	27239.18476	0.16161	0.11785	0.15608	0.1219	5.46E-03	6.62E-06	4.22E-06	6.39E-06	4.18E-06	5.4764E-03
520557.84	4258955.52	27224.22289	0.21404	0.11114	0.20637	0.11603	5.45E-03	8.76E-06	3.98E-06	8.45E-06	3.98E-06	5.4772E-03
520594.4	4258188.32	27208.81692	0.133	0.18362	0.13304	0.19261	5.45E-03	5.45E-06	6.57E-06	5.45E-06	6.61E-06	5.4730E-03
519949.36	4258736.79	27142.21194	0.63057	0.67632	0.70474	0.64095	5.44E-03	2.58E-05	2.42E-05	2.89E-05	2.20E-05	5.5365E-03
520635.94	4258753.3	27098.16987	0.15234	0.12131	0.14681	0.12579	5.43E-03	6.24E-06	4.34E-06	6.01E-06	4.32E-06	5.4477E-03
520534.39	4258995.25	27088.61155	0.23599	0.11092	0.22707	0.11577	5.42E-03	9.66E-06	3.97E-06	9.30E-06	3.97E-06	5.4518E-03
520567.49	4258941.52	27082.24116	0.20609	0.11091	0.19892	0.11576	5.42E-03	8.44E-06	3.97E-06	8.14E-06	3.97E-06	5.4481E-03
519960.75	4258691.89	27068.38764	0.62655	0.86139	0.70889	0.8093	5.42E-03	2.57E-05	3.08E-05	2.90E-05	2.78E-05	5.5341E-03
520628.26	4258795.59	27048.53939	0.15911	0.11812	0.15361	0.12214	5.42E-03	6.51E-06	4.22E-06	6.28E-06	4.19E-06	5.4381E-03
520119.34	4258272.44	27031.18079	0.23713	7.68679	0.24286	9.04061	5.41E-03	9.71E-06	2.75E-04	9.94E-06	3.10E-04	6.0183E-03
520604.84	4258472.09	27006.86845	0.1517	0.15928	0.14744	0.16713	5.41E-03	6.21E-06	5.70E-06	6.04E-06	5.74E-06	5.4322E-03
520544.02	4258981.26	26991.85409	0.22659	0.1107	0.21819	0.11554	5.41E-03	9.28E-06	3.96E-06	8.93E-06	3.97E-06	5.4316E-03
520009.69	4258569.96	26980.96469	0.67937	2.32234	0.81052	2.02174	5.40E-03	2.78E-05	8.31E-05	3.32E-05	6.94E-05	5.6168E-03
520095.31	4259147.99	26975.83372	12.42387	0.22163	11.55381	0.20878	5.40E-03	5.09E-04	7.93E-06	4.73E-04	7.17E-06	6.3991E-03
520256.85	4258122.87	26962.40632	0.17839	1.22892	0.18685	1.34172	5.40E-03	7.30E-06	4.40E-05	7.65E-06	4.61E-05	5.5046E-03
519956.82	4258851.23	26933.1338	0.70616	0.41706	0.77868	0.40417	5.39E-03	2.89E-05	1.49E-05	3.19E-05	1.39E-05	5.4833E-03
520043.44	4259105.77	26924.54648	5.20521	0.22732	7.14831	0.22113	5.39E-03	2.13E-04	8.13E-06	2.93E-04	7.59E-06	5.9135E-03
520617.71	4258350.66	26924.30707	0.13923	0.16064	0.13707	0.16852	5.39E-03	5.70E-06	5.75E-06	5.61E-06	5.79E-06	5.4148E-03
520637.83	4258700.92	26918.43397	0.14806	0.12728	0.14267	0.13193	5.39E-03	6.06E-06	4.55E-06	5.84E-06	4.53E-06	5.4118E-03
520613.22	4258256.46	26898.23935	0.13318	0.17007	0.13203	0.17702	5.39E-03	5.45E-06	6.08E-06	5.41E-06	6.08E-06	5.4098E-03
520593.45	4258177.9	26882.95095	0.13236	0.18435	0.13276	0.19361	5.38E-03	5.42E-06	6.59E-06	5.44E-06	6.65E-06	5.4078E-03
520139.01	4258242.5	26877.61037	0.22159	5.00612	0.22482	5.80904	5.38E-03	9.07E-06	1.79E-04	9.21E-06	1.99E-04	5.7794E-03
520589.65	4258902.32	26874.58234	0.18862	0.11154	0.1825	0.11616	5.38E-03	7.72E-06	3.99E-06	7.47E-06	3.99E-06	5.4052E-03
520053.36	4259115.75	26867.38762	7.31064	0.22539	11.90904	0.21798	5.38E-03	2.99E-04	8.06E-06	4.88E-04	7.48E-06	6.1830E-03
520611.88	4258245.87	26863.19484	0.13272	0.17131	0.13148	0.17833	5.38E-03	5.43E-06	6.13E-06	5.38E-06	6.12E-06	5.4028E-03
520577.34	4258927.43	26855.53143	0.19827	0.11064	0.19158	0.1154	5.38E-03	8.12E-06	3.96E-06	7.84E-06	3.96E-06	5.4021E-03
520039.4	4258501.95	26844.93713	0.58784	5.41337	0.65921	4.24396	5.38E-03	2.41E-05	1.94E-04	2.70E-05	1.46E-04	5.7665E-03
520631.84	4258787.03	26822.2246	0.15665	0.11834	0.15119	0.12236	5.37E-03	6.41E-06	4.23E-06	6.19E-06	4.20E-06	5.3942E-03
520197.96	4258172.69	26815.868	0.1937	2.16097	0.19763	2.41194	5.37E-03	7.93E-06	7.73E-05	8.09E-06	8.28E-05	5.5464E-03
520188.14	4258182.66	26807.67916	0.1971	2.41987	0.20038	2.71551	5.37E-03	8.07E-06	8.66E-05	8.20E-06	9.32E-05	5.5647E-03
520617.39	4258375.69	26806.6119	0.14112	0.15912	0.13834	0.16673	5.37E-03	5.78E-06	5.69E-06	5.66E-06	5.72E-06	5.3912E-03
520207.78	4258162.72	26783.87106	0.19035	1.9425	0.19495	2.15911	5.36E-03	7.79E-06	6.95E-05	7.98E-06	7.41E-05	5.5232E-03
519936.33	4258825.92	26778.66908	0.67124	0.45685	0.73933	0.44009	5.36E-03	2.75E-05	1.63E-05	3.03E-05	1.51E-05	5.4520E-03
520610.66	4258235.33	26759.58735	0.13219	0.17247	0.13096	0.17962	5.36E-03	5.41E-06	6.17E-06	5.36E-06	6.17E-06	5.3821E-03
519952.12	4258719.32	26734.78615	0.61744	0.7331	0.69152	0.69332	5.35E-03	2.53E-05	2.62E-05	2.83E-05	2.38E-05	5.4576E-03
520613.77	4258417.94	26726.20483	0.14516	0.15857	0.1419	0.16599	5.35E-03	5.94E-06	5.67E-06	5.81E-06	5.70E-06	5.3754E-03
520608.24	4258455.15	26724.92555	0.14944	0.1587	0.14559	0.16643	5.35E-03	6.12E-06	5.68E-06	5.96E-06	5.71E-06	5.3755E-03
519942.96	4258920.4	26720.8677	0.83299	0.33143	0.91714	0.32608	5.35E-03	3.41E-05	1.19E-05	3.76E-05	1.12E-05	5.4459E-03
520178.32	4258192.63	26704.01499	0.20038	2.73362	0.2032	3.08093	5.35E-03	8.20E-06	9.78E-05	8.32

520109.52	4258282.41	26236.21276	0.23973	10.15774	0.24714	11.75557	5.25E-03	9.82E-06	3.63E-04	1.01E-05	4.04E-04	6.0410E-03
520620.83	4258837.28	26230.64942	0.1658	0.11381	0.16047	0.11791	5.25E-03	6.79E-06	4.07E-06	6.57E-06	4.05E-06	5.2745E-03
520552.76	4258977.64	26216.3725	0.21871	0.10911	0.21079	0.11385	5.25E-03	8.95E-06	3.90E-06	8.63E-06	3.91E-06	5.2756E-03
519935.68	4258800.24	26206.34413	0.63136	0.50032	0.69399	0.47959	5.25E-03	2.59E-05	1.79E-05	2.84E-05	1.65E-05	5.3368E-03
520639.01	4258769.92	26190.85145	0.15182	0.11828	0.14642	0.12243	5.25E-03	6.22E-06	4.23E-06	6.00E-06	4.20E-06	5.2657E-03
520641.33	4258692.55	26181.68131	0.14593	0.12729	0.14062	0.13177	5.24E-03	5.97E-06	4.55E-06	5.76E-06	4.52E-06	5.2640E-03
520608.22	4258480.96	26180.95342	0.15061	0.15697	0.14606	0.16462	5.24E-03	6.17E-06	5.61E-06	5.98E-06	5.65E-06	5.2665E-03
519933.15	4258842.38	26173.25517	0.66643	0.4258	0.73265	0.41156	5.24E-03	2.73E-05	1.52E-05	3.00E-05	1.41E-05	5.3282E-03
520095.33	4259157.99	26143.8389	12.33657	0.21597	11.51765	0.20358	5.24E-03	5.05E-04	7.72E-06	4.72E-04	6.99E-06	6.2271E-03
520624.38	4258828.79	26143.57436	0.16331	0.11414	0.158	0.11819	5.24E-03	6.69E-06	4.08E-06	6.47E-06	4.06E-06	5.2569E-03
520643.17	4258736.05	26142.53598	0.14776	0.12124	0.14255	0.12579	5.24E-03	6.05E-06	4.34E-06	5.84E-06	4.32E-06	5.2559E-03
520043.46	4259115.77	26127.53376	5.24457	0.22125	7.17551	0.21528	5.23E-03	2.15E-04	7.91E-06	2.94E-04	7.39E-06	5.7562E-03
520247.06	4258122.84	26119.54325	0.17683	1.33794	0.18406	1.46409	5.23E-03	7.24E-06	4.79E-05	7.54E-06	5.03E-05	5.3437E-03
519989.85	4258608.84	26111.20312	0.6371	1.51554	0.74521	1.38437	5.23E-03	2.61E-05	5.42E-05	3.05E-05	4.75E-05	5.3875E-03
520055.26	4259127.23	26076.2879	7.91443	0.21933	13.65884	0.21194	5.22E-03	3.24E-04	7.85E-06	5.59E-04	7.28E-06	6.1206E-03
520620.78	4258384.62	26074.73393	0.14043	0.15699	0.13749	0.16433	5.22E-03	5.75E-06	5.62E-06	5.63E-06	5.64E-06	5.2445E-03
519967.12	4258664.6	26069.13946	0.60798	0.99823	0.69188	0.93199	5.22E-03	2.49E-05	3.57E-05	2.83E-05	3.20E-05	5.3416E-03
519932.94	4258865.97	26061.02349	0.6913	0.39106	0.75969	0.38009	5.22E-03	2.83E-05	1.40E-05	3.11E-05	1.30E-05	5.3055E-03
520602.3	4258181.69	26056.68456	0.13021	0.1783	0.13018	0.18702	5.22E-03	5.33E-06	6.38E-06	5.33E-06	6.42E-06	5.2417E-03
520627.94	4258820.29	26034.20002	0.16083	0.11451	0.15557	0.11848	5.21E-03	6.59E-06	4.10E-06	6.37E-06	4.07E-06	5.2348E-03
520148.86	4258222.53	26029.34724	0.21018	4.20561	0.21247	4.84596	5.21E-03	8.61E-06	1.50E-04	8.70E-06	1.66E-04	5.5468E-03
520586	4258923.84	25993.60261	0.19186	0.10907	0.18557	0.11368	5.21E-03	7.86E-06	3.90E-06	7.60E-06	3.90E-06	5.2288E-03
520643.91	4258710.34	25992.23429	0.14584	0.12409	0.14067	0.12866	5.21E-03	5.97E-06	4.44E-06	5.76E-06	4.42E-06	5.2259E-03
520598.1	4258898.82	25963.70019	0.18275	0.11	0.17697	0.11445	5.20E-03	7.48E-06	3.93E-06	7.25E-06	3.93E-06	5.2222E-03
520631.5	4258811.8	25900.16578	0.15839	0.11485	0.15317	0.11876	5.19E-03	6.49E-06	4.11E-06	6.27E-06	4.08E-06	5.2078E-03
520642.59	4258761.36	25894.41089	0.1496	0.11836	0.14431	0.1226	5.19E-03	6.13E-06	4.23E-06	5.91E-06	4.21E-06	5.2062E-03
519939.82	4258762.01	25854.67519	0.60233	0.58525	0.66561	0.55764	5.18E-03	2.47E-05	2.09E-05	2.73E-05	1.91E-05	5.2697E-03
520256.88	4258112.87	25843.47367	0.17344	1.23147	0.1812	1.34313	5.18E-03	7.10E-06	4.40E-05	7.42E-06	4.61E-05	5.2802E-03
519933.52	4258891.5	25837.87121	0.72212	0.35804	0.7924	0.35007	5.17E-03	2.96E-05	1.28E-05	3.24E-05	1.20E-05	5.2612E-03
519932.63	4258817	25834.67934	0.6313	0.46541	0.69247	0.44751	5.17E-03	2.58E-05	1.66E-05	2.84E-05	1.54E-05	5.2600E-03
520611.58	4258463.91	25826.45038	0.14843	0.15633	0.14432	0.16394	5.17E-03	6.08E-06	5.59E-06	5.91E-06	5.63E-06	5.1953E-03
520565.36	4258862.41	25805.72147	0.20791	0.10827	0.20063	0.11296	5.17E-03	8.51E-06	3.87E-06	8.21E-06	3.88E-06	5.1924E-03
520617.25	4258427.06	25803.36852	0.1443	0.15597	0.14086	0.16331	5.17E-03	5.91E-06	5.58E-06	5.77E-06	5.61E-06	5.1903E-03
519977.12	4258636.77	25776.8955	0.61172	1.1995	0.7	1.11302	5.16E-03	2.50E-05	4.29E-05	2.87E-05	3.82E-05	5.2970E-03
519954.29	4258700.45	25758.59544	0.59322	0.79508	0.66501	0.7504	5.16E-03	2.43E-05	2.84E-05	2.72E-05	2.58E-05	5.2642E-03
520635.05	4258803.31	25739.6893	0.15599	0.11517	0.15082	0.11902	5.15E-03	6.39E-06	4.12E-06	6.18E-06	4.09E-06	5.1755E-03
520119.37	4258262.44	25732.71182	0.22745	7.70584	0.23266	9.04117	5.15E-03	9.31E-06	2.76E-04	9.53E-06	3.10E-04	5.7582E-03
520029.48	4258521.39	25713.45453	0.61609	3.97682	0.70406	3.25444	5.15E-03	2.52E-05	1.42E-04	2.88E-05	1.12E-04	5.4575E-03
519942.8	4258745.07	25702.12254	0.59329	0.63163	0.65944	0.60008	5.15E-03	2.43E-05	2.26E-05	2.70E-05	2.06E-05	5.2417E-03
520624.83	4258343.51	25700.07873	0.13623	0.15716	0.13411	0.16481	5.15E-03	5.58E-06	5.62E-06	5.49E-06	5.66E-06	5.1691E-03
520620.79	4258249.68	25660.77268	0.13029	0.1659	0.12908	0.17251	5.14E-03	5.33E-06	5.93E-06	5.29E-06	5.92E-06	5.1614E-03
520574.94	4258948.44	25645.84751	0.2003	0.10802	0.19349	0.11267	5.14E-03	8.20E-06	3.86E-06	7.92E-06	3.87E-06	5.1598E-03
520619.5	4258239.12	25637.30293	0.12984	0.16703	0.12856	0.17373	5.13E-03	5.32E-06	5.97E-06	5.26E-06	5.96E-06	5.1567E-03
520622.2	4258260.3	25628.31896	0.13069	0.16458	0.1296	0.17118	5.13E-03	5.35E-06	5.89E-06	5.31E-06	5.88E-06	5.1548E-03
520139.04	4258232.5	25627.03687	0.21318	5.01367	0.2159	5.82424	5.13E-03	8.73E-06	1.79E-04	8.84E-06	2.00E-04	5.5290E-03
520625.51	4258319.42	25625.67419	0.13431	0.15816	0.13281	0.16579	5.13E-03	5.50E-06	5.66E-06	5.44E-06	5.69E-06	5.1542E-03
520197.99	4258162.69	25621.2753	0.18737	2.16468	0.19063	2.41454	5.13E-03	7.67E-06	7.74E-05	7.81E-06	8.29E-05	5.3068E-03
520624.44	4258368.34	25616.98366	0.13804	0.15602	0.13533	0.1634	5.13E-03	5.65E-06	5.58E-06	5.54E-06	5.61E-06	5.1525E-03
520620.66	4258410.15	25615.82311	0.14202	0.15547	0.13877	0.16266	5.13E-03	5.81E-06	5.56E-06	5.68E-06	5.58E-06	5.1526E-03
520551.75	4258988.06	25609.92361	0.2198	0.10786	0.21183	0.1125	5.13E-03	9.00E-06	3.86E-06	8.67E-06	3.86E-06	5.1541E-03
520188.17	4258172.66	25605.20002	0.19051	2.42372	0.19317	2.71882	5.13E-03	7.80E-06	8.67E-05	7.91E-06	9.33E-05	5.3235E-03
520646.78	4258727.42	25602.55578	0.14553	0.12127	0.14051	0.12577	5.13E-03	5.96E-06	4.34E-06	5.75E-06	4.32E-06	5.1476E-03
520613.37	4258206.46	25600.10261	0.12906	0.17121	0.12809	0.17875	5.13E-03	5.28E-06	6.12E-06	5.24E-06	6.14E-06	5.1496E-03
520085.43	4259158.01	25591.79397	16.40962	0.21316	18.29117	0.2021	5.13E-03	6.72E-04	7.62E-06	7.49E-04	6.94E-06	6.5605E-03
520596.15	4258909.64	25577.70311	0.18441	0.1088	0.17856	0.11327	5.12E-03	7.55E-06	3.89E-06	7.31E-06	3.89E-06	5.1449E-03
520207.81	4258152.72	25575.853	0.18419	1.94677	0.18815	2.15986	5.12E-03	7.54E-06	6.96E-05	7.70E-06	7.42E-05	5.2809E-03
520618.3	4258228.59	25560.0225	0.12936	0.16803	0.12808	0.17488	5.12E-03	5.30E-06	6.01E-06	5.24E-06	6.00E-06	5.1413E-03
520638.61	4258794.82	25546.36443	0.15364	0.11539	0.14849	0.11922	5.12E-03	6.29E-06	4.13E-06	6.08E-06	4.09E-06	5.1366E-03
520039.36	4258492.26	25512.17175	0.5417	5.45468	0.60135	4.27519	5.11E-03	2.22E-05	1.95E-04	2.46E-05	1.47E-04	5.4978E-03
520217.63	4258142.75	25511.03479	0.18111	1.76051	0.18572	1.94583	5.11E-03	7.42E-06	6.30E-05	7.60E-06	6.68E-05	5.2537E-03
520042.98	4258473.67	25501.90201	0.48518	6.2486	0.53192	4.74921	5.11E-03	1.99E-05	2.24E-04	2.18E-05	1.63E-04	5.5353E-03
520646.17	4258752.8	25500.63933	0.14736	0.1184	0.14222	0.1227	5.11E-03	6.03E-06	4.24E-06	5.82E-06	4.21E-06	5.1274E-03
520178.35	4258182.63	25495.533	0.19353	2.73799	0.19577	3.08464	5.11E-03	7.92E-06	9.79E-05	8.02E-06	1.06E-04	5.3256E-03
520561.49	4258974.02	25467.23512	0.21125	0.10755	0.20378	0.11218	5.10E-03	8.65E-06	3.85E-06	8.34E-06	3.85E-06	5.1249E-03
520617.19	4258218.1	25448.23359	0.12887	0.16882	0.12766	0.17591	5.10E-03	5.28E-06	6.04E-06	5.23E-06	6.04E-06	5.1189E-03
520584.7	4258934.39	25441.95837	0.19295	0.10778	0.18659	0.11236	5.10E-03	7.90E-06	3.86E-06	7.64E-06	3.86E-06	5.1184E-03
520064.11	4258372.91	25425.2137	0.30089	19.68454	0.32213	9.93187	5.09E-03	1.23E-05	7.04E-04	1.32E-05	3.41E-04	6.1623E-03
520612.23	4258195.95	25417.13734	0.12856	0.17194	0.12784	0.17979	5.09E-03	5.26E-06	6.15E-06	5.23E-06	6.17E-06	5.1129E-03
520624.86	4258271.45	25409.95069	0.1308	0.16225	0.12975	0.16898	5.09E-03	5.36E-06	5.80E-06	5.31E-06	5.80E-06	5.1110E-03
519945.66	4258727.85	25399.92897	0.58354	0.682	0.64922	0.64699	5.09E-03	2.39E-05	2.44E-05	2.66E-05	2.22E-05	5.1838E-03
520045.36	4259127.25	25386.86661	5.60187	0.21537	7.80977	0.20939	5.08E-03	2.29E-04	7.70E-06	3.20E-04	7.19E-06	5.6481E-03
520227.45	4258132.78	25383.72452	0.17798	1.6007	0.18327	1.76192	5.08E-03	7.29E-06	5.73E-05	7.50E-06	6.05E-05	5.2160E-03
519929.15	4258856.83	25370.04645	0.6525	0.39951	0.71532	0.38725	5.08E-03	2.67E-05	1.43E-05	2.93E-05	1.33E-05	5.1643E-03
519935.82	4258927.45	25367.50145	0.77384	0.31869	0.84786	0.31175	5.08E-03	3.17E-05	1.14E-05	3.47E-05	1.08E-05	5.1688E-03
520168.53	4258192.6	25360.03364	0.19663	3.12028	0.19851	3.54089	5.08E-03	8.05E-06	1.12E-04	8.13E-06	1.22E-04	5.3280E-03
519929.49	4258833.54	25356.69185	0.62867	0.43413	0.68887	0.41865	5.08E-03	2.57E-05	1.55E-05	2.82E-05	1.44E-05	5.1619E-03
520055.28	4259137.23	25356.10449	7.98042	0.21378	13.76745	0.20664	5.08E-03	3.27E-04	7.65E-06	5.64E-04	7.09E-06	5.9831E-03
520095.34	4259167.99	25347.08696	12.22931	0.21055	11.4864	0.19859	5.08E-03	5.01E-04	7.53E-06	4.70E-04	6.82E-06	6.0615E-03
520624.18	4258393.54	25327.03218	0.13971	0.15473	0.13662	0.16186	5.07E-03	5.72E-06	5.53E-06	5.59E-06	5.56E-06	5.0945E-03
520099.7	4258292.38	25322.1174	0.24174	14.47958	0.25116	15.42029	5.07E-03	9.90E-06	5.18E-04	1.03E-05	5.29E-04	6.1386E-03
520626.19	4258282.04	25320.25051	0.13122	0.16073	0.1302	0.16763	5.07E-03	5.37E-06	5.75E-06	5.33E-06	5.75E-06	5.0929E-03
520642.16	4258786.32	25320.02337	0.15134	0.1155	0.1462	0.11935	5.07E-03	6.20E-06	4.13E-06	5.99E-06	4.10E-06	5.0911E-03
519926.76	4258882.44	25306.97459	0.68369	0.36591	0.74878	0.35686	5.07E-03	2.80E-05	1.31E-05	3.07E-05	1.23E-05	5.1521E-03
520647.55	4258701.64	25304.4457	0.14369	0.12409	0.13861	0.12849	5.07E-03	5.88E-06	4.44E-06	5.68E-06	4.41E-06	5.0880E-03
519937.54	4258938.15	25302.75208	0.79763	0.30901	0.87448	0.30467	5.07E-03	3.27E-05	1.11E-05	3.58E-05	1.05E-05	5.1572E-03
519940.09	4258940.2	25302.73606	0.82951	0.29987	0.91045	0.29605	5.07E-03	3.40E-05	1.07E-05	3.73E-05	1.02E-05	5.1593E-03
520237.27	4258122.81	25228.63696	0.17489	1.46182	0.18082	1.60356	5.05E-03	7.16E-06	5.23E-05	7.40E-06	5.51E-05	5.1743E-03
520611.16	4258185.48	25204.28491	0.12803	0.17262	0.12763	0.18077	5.05E-03	5.24E-06	6.17E-06	5.23E-06	6.21E-06	5.0704E-03
520627.65	4258292.67	25187.60335	0.1316	0.15903	0.13051	0.16615	5.04E-03	5.39E-06	5.69E-06	5.34E-06	5.70E-06	5.0663E-03
519941.85	4258959.92	25158.33892	0.8542	0.29095	0.9383	0.28755	5.04E-03	3.50E-05	1.04E-05	3.84E-05	9.87E-06	5.1120E-03
520594.67	4258920.26	25139.08736	0.18571	0.10755	0.17979	0.11202	5.03E-03	7.60E-06	3.85E-06	7.36E-06	3.85E-06	5.0571E-03
520158.71	4258202.57	25136.49035	0.19962	3.5994	0.20137	4.113	5.03E-03	8.17E-06	1.29E-04	8.24E-06	1.41E-04	5.3203E-03
519934.85	4258774.14	25130.72929	0.58619	0.54676	0.6438	0.52235	5.03E-03	2.40E-05	1.96E-05	2.64E-05	1.79E-05	5.1206E-03
520129.22	4258242.47	25129.41088	0.21596	6.12265	0.2195	7.16076	5.03E-03	8.84E-06	2.19E-04	8.99E-06	2.46E-04	5.5152E-03
520628.17	4258352.27	25110.41188	0.13569	0.15482	0.13325	0.16227	5.03E-03	5.56E-06	5.54E-06	5.46E-06	5.57E-06	5.0508E-03
520613.61	4258878.45	25095.14855	0.17207	0.10938	0.16681	0.11354	5.03E-03	7.05E-06	3.91E-06	6.83E-06	3.90E-06	5.0473E-03
520610.08	4258886.89	25093.87732	0.17459	0.10893	0.16922	0.11316	5.03E-03	7.15E-06	3.90E-06	6.93E-06	3.88E-06	5.0472E-03
520019.56	4258540.83	25079.88416	0.63263	3.02761	0.73768	2.56388	5.02E-03	2.59E-05	1.08E-04	3.02E-05	8.80E-05	5.2750E-03
520617.14	4258870.02	25079.15045	0.16958	0.1098	0.1644	0.11391	5.02E-03	6.94E-06	3.93E-06	6.73E-06	3.91E-06	5.0440E-03
520649.76	4258744.25	25065.4676	0.14517	0.11837	0.14019	0.1227	5.02E-03	5.94E-06	4.23E-06	5.74E-06	4.21E-06	5.0398E-03
520573.86	4258958.89	25060.86971	0.20115	0.10674	0.19428	0.11132	5.02E-03	8.24E-06	3.82E-06	7.95E-06	3.82E-06	5.0426E-03
519931.94	4258791.23	25053.74825	0.59102	0.50842	0.64768	0.48681	5.02E-03	2.42E-05	1.82E-05	2.65E-05	1.67E-05	5.1030E-03
520247.09	4258112.84	25044.22778	0.17184	1.34028	0.17834	1.46587	5.02E-03	7.04E-06	4.79E-05	7.30E-06	5.03E-05	5.1281E-03
520620.68	4258861.59	25036.79454	0.16713	0.11014	0.16196	0.11421	5.01E-03	6.84E-06	3.94E-06	6.63E-06	3.92E-06	5.0353E-03
520650.39	4258718.8	25022.01253	0.1434	0.12117	0.13849	0.12559	5.01E-03	5.87E-06	4.33E-06	5.67E-06	4.31E-06	5.0312E-03
520109.55	4258272.41	25015.16374	0.22984	10.18168	0.23659	11.81758	5.01E-03	9.41E-06	3.64E-04	9.69E-06	4.06E-04	5.7986E-03
520614.91	4258472.67	25010.46701	0.1474	0.15404	0.14302	0.16151	5.01E-03	6.04E-06	5.51E-06	5.86E-06	5.54E-06	5.0316E-03
520624.21	4258853.15	24990.60063	0.16471	0.11047	0.15956	0.1145	5.00E-03	6.74E-06	3.95E-06	6.53E-06	3.93E-06	5.0259E-03
519930.24	4258907.71	24973.60378	0.71111	0.33597	0.7774	0.32949	5.00E-03	2.91E-05	1.18E-05	3.18E-05	1.13E-05	5.0856E-03
520645.72	4258777.83	24959.52114	0.14894	0.11531	0.14379	0.11925	5.00E-03	6.10E-06	4.12E-06	5.89E-06	4.09E-06	5.0187E-03
520627.8	4258377.18	24948.3264	0.1374	0.15381	0.13448	0.16094	5.00E-03	5.63E-06	5.50E-06	5.51E-06	5.53E-06	5.0184E-03
520048.09	4258429.46	24926.58895	0.3737	7.68649	0.402	5.63349	4.99E-03	1.53E-05	2.75E-04	1.65E-05	1.93E-04	5.4920E-03
520620.72	4258436.19	24895.70684	0.14339	0.15353	0.13978	0.16078	4.99E-03	5.87E-06	5.49E-06	5.72E-06	5.52E-06	5.0083E-03
520583.48	4258944.9	24894.1607	0.19393	0.10653	0.1875	0.11106	4.99E-03	7.94E-06	3.81E-06	7.68E-06	3.81E-06	5.0086E-03
520560.44	4258984.46	24880.70023	0.21222	0.10632	0.20468	0.11086	4.98E-03	8.69E-06	3.80E-06	8.38E-06	3.81E-06	5.0074E-03
520631.27	4258836.28	24857.624	0.1599	0.11124	0.15488	0.11515	4.98E-03	6.55E-06	3.98E-06	6.34E-06	3.95E-06	4.9989E-03
520148.89	4258212.53	24834.37366	0.2025	4.21308	0.2044	4.85041	4.97E-03	8.29E-06	1.51E-04	8.37E-06	1.67E-04	5.3073E-03
519957.12	4258683.15	24832.72823	0.57349	0.86143	0.64606	0.80998	4.97E-03	2.35E-05	3.08E-05	2.65E-05	2.78E-05	5.0816E-03
519928.93	4258808.07	24831.65265	0.59318	0.47342	0.64844	0.45453	4.97E-03	2.43E-05	1.69E-05	2.65E-05	1.56E-05	5.0563E-03
519967.12	4258655.32	24827.07198	0.58213	1.02509	0.6592	0.9583	4.97E-03	2.38E-05	3.67E-05	2.70E-05	3.29E-05	5.0924E-03
520085.44	4259168.01	24826.1237	16.35577	0.20779	18.20768	0.19713	4.97E-03	6.70E-04	7.43E-06	7.46E-04	6.77E-06	6.4011E-03
519948.37	4258710.28	24785.83095	0.56826	0.73706	0.63402	0.69765	4.96E-03	2.33E-05	2.64E-05	2.60E-05	2.40E-05	5.0632E-03
520624.09	4258419.17	24775.38042	0.1412	0.15307	0.1378	0.16015	4.96E-03	5.78E-06	5.48E-06	5.64E-06	5.50E-06	4.9840E-03
520618.37	4258455.89	24753.761	0.14525	0.15334	0.14127	0.16073	4.96E-03	5.95E-06	5.48E-06	5.78E-06	5.52E-06	4.9800E-03
520570.23	4258970.4	24725.99414	0.2041	0.10599	0.19705	0.11052	4.95E-03	8.36E-06	3.79E-06	8.07E-06	3.79E-06	4.9757E-03
520634.8	4258827.85	24724.33141	0.15748	0.11145	0.15246	0.11531	4.95E-03	6.45E-06	3.99E-06	6.24E-06	3.96E-06	4.9720E-03
519926.01	4258873.38	24720.75305	0.64709	0.37373	0.70722	0.36353	4.95E-03	2.65E-05	1.34E-05	2.90E-05	1.25E-05	5.0320E-03
520045.38	4259137.25	24713.72123	5.64302	0.21001	7.85107	0.2042	4.95E-03	2.31E-04	7.51E-06	3.21E-04	7.01E-06	5.5163E-03
520009.65	4258560.27	24709.80679	0.63378	2.3707	0.74578	2.06469	4.95E-03	2.59E-05	8.48E-05	3.05E-05	7.09E-05	5.1606E-03
520604.88	4258906.02	24702.69683	0.17853	0.10728	0.17301	0.11159	4.95E-03	7.31E-06	3.84E-06	7.08E-06	3.83E-06	4.9691E-03
520593.3	24684.22782	0.18686	0.10631	0.18087	0.11075	4.94E-03	7.65E-06	3.80E-06	7.41E-06	3.80E-06	4.9660E-03	
520055.71	4259147.23	24661.89529	8.13276	0.2086	14.31301	0.20162	4.94E-03	3.33E-04	7.46E-06	5.86E-04	6.92E-06	5.8723E-03
520649.28	4258769.34	24655.61212	0.14673	0.1153	0.14164	0.11931	4.94E-03	6.01E-06	4.12E-06	5.80E-06	4.10E-06	4.9577E-03
520638.33	4258819.41	24640.16403	0.15519	0.11183	0.15022	0.11562	4.93E-03	6.35E-06	4.00E-06	6.15E-06	3.97E-06	4.9550E-03
520622.35	4258210.3	24627.19276	0.1268	0.16582	0.1256	0.17282	4.93E-03	5.19E-06	5.93E-06	5.14E-06	5.93E-06	4.9541E-03
519925.35	4258847.69	24619.03331	0.61555	0.40764	0.67284	0.39412	4.93E-03	2.52E-05	1.46E-05	2.75E-05	1.35E-05	5.0112E-03
520653.34	4258735.69	24591.55001	0.14304	0.11831	0.13822	0.12265	4.92E-03	5.86E-06	4.23E-06	5.66E-06	4.21E-06	4.9448E-03
520651.19	4258692.94	24588.43318	0.1416	0.12394	0.13654	0.1282	4.92E-03	5.80E-06	4.43E-06	5.59E-06	4.40E-06	4.9444E-03
520095.36	4259177.99	24577.28283	12.18774	0.20529	11.44472	0.19376	4.92E-03	4.99E-04	7.34E-06	4.69E-04	6.65E-06	5.9035E-03
520119.4	4258252.44	24576.59676	0.21855	7.71638	0.22316	9.11469	4.92E-03	8.95E-06	2.76E-04	9.14E-06	3.13E-04	5.5288E-03
520627.58	4258402.46	24567.64966	0.13897	0.15243	0.13573	0.1594	4.92E-03	5.69E-06	5.45E-06	5.56E-06	5.47E-06	4.9422E-03
520039.32	4258482.56	24550.56962	0.50121	5.49239	0.55201	4.28891	4.92E-03	2.05E-05	1.96E-04	2.26E-05	1.47E-04	5.3034E-03
519926.52	4258898.73	24528.45038	0.67477	0.34333	0.73685	0.33587	4.91E-03	2.76E-05	1.23E-05	3.02E-05	1.15E-05	4.9938E-03
520054.1	4258397.01	24527.51633	0.32208	10.06846	0.34506	8.87415	4.91E-03	1.32E-05	3.60E-04	1.41E-05	2.36E-04	5.5354E-03
520628.33	4258242.9	24516.09981	0.12751	0.16182	0.12624	0.16813	4.91E-03	5.22E-06	5.79E-06	5.17E-06	5.77E-06	4.9316E-03
520641.86	4258810.98	24515.61659	0.15293	0.11224	0.14802	0.11596	4.91E-03	6.26E-06	4.01E-06	6.06E-06	3.98E-06	4.9299E-03
520631.5	24506.0456	0.1351	0.15263	0.1324	0.15984	4.91E-03	5.53E-06	5.46E-06	5.42E-06	5.49E-06	4.9296E-03	
520627.08	4258232.35	24495.32882	0.12707	0.16287	0.12575	0.16927	4.91E-03	5.20E-06	5.83E-06	5.15E-06	5.81E-06	4.

520045.81	4259147.25	24058.55565	5.72878	0.20501	8.04072	0.19931	4.82E-03	2.35E-04	7.33E-06	3.29E-04	6.84E-06	5.3960E-03
520656.39	4258752.35	24032.84248	0.14262	0.11551	0.13782	0.11964	4.81E-03	5.84E-06	4.13E-06	5.64E-06	4.11E-06	4.8326E-03
519922.79	4258889.74	24028.62931	0.64009	0.35055	0.69779	0.34207	4.81E-03	2.62E-05	1.25E-05	2.86E-05	1.17E-05	4.8911E-03
520158.75	4258192.57	24016.95309	0.19265	3.60439	0.19402	4.11604	4.81E-03	7.89E-06	1.29E-04	7.94E-06	1.41E-04	5.0958E-03
520578.97	4258966.78	24007.33836	0.19732	0.10448	0.19064	0.1089	4.81E-03	8.08E-06	3.74E-06	7.81E-06	3.74E-06	4.8312E-03
520129.25	4258232.47	24002.65574	0.20783	6.13214	0.21093	7.18204	4.81E-03	8.51E-06	2.19E-04	8.64E-06	2.47E-04	5.2899E-03
520049.63	4258408.85	23979.504	0.33415	8.19372	0.35782	9.94987	4.80E-03	1.37E-05	2.93E-04	1.47E-05	2.04E-04	5.3279E-03
520055.72	4259157.23	23962.05873	8.186	0.20341	14.40907	0.19667	4.80E-03	3.35E-04	7.28E-06	5.90E-04	6.75E-06	5.7379E-03
520621.67	4258464.56	23955.65913	0.14427	0.15115	0.14005	0.15842	4.80E-03	5.91E-06	5.41E-06	5.73E-06	5.44E-06	4.8201E-03
520627.53	4258428.19	23937.11718	0.14035	0.15067	0.13679	0.15767	4.79E-03	5.75E-06	5.39E-06	5.60E-06	5.41E-06	4.8159E-03
520652.46	4258785.68	23931.79361	0.1463	0.11275	0.14145	0.11646	4.79E-03	5.99E-06	4.03E-06	5.79E-06	4.00E-06	4.8125E-03
520635.94	4258346.8	23908.87399	0.1327	0.15104	0.13024	0.15825	4.79E-03	5.43E-06	5.40E-06	5.33E-06	5.43E-06	4.8097E-03
520601.91	4258927.27	23899.05878	0.18099	0.10489	0.17534	0.10919	4.79E-03	7.41E-06	3.75E-06	7.18E-06	3.75E-06	4.8082E-03
520634.84	4258369.79	23890.23928	0.13447	0.15059	0.13157	0.15754	4.78E-03	5.51E-06	5.39E-06	5.39E-06	5.41E-06	4.8060E-03
520054.92	4258386.69	23886.61801	0.30613	10.47884	0.32744	7.09565	4.78E-03	1.25E-05	3.75E-04	1.34E-05	2.44E-04	5.4280E-03
520109.58	4258262.41	23874.45137	0.22059	10.20896	0.22682	11.8116	4.78E-03	9.03E-06	3.65E-04	9.29E-06	4.06E-04	5.5702E-03
520617.26	4258893.69	23866.47322	0.1704	0.10624	0.16529	0.11032	4.78E-03	6.98E-06	3.80E-06	6.77E-06	3.79E-06	4.8009E-03
519979.89	4258618.58	23865.46296	0.57997	1.298	0.66666	1.20137	4.78E-03	2.37E-05	4.64E-05	2.73E-05	4.12E-05	4.9181E-03
520620.91	4258884.98	23863.0545	0.16792	0.10666	0.16291	0.11069	4.78E-03	6.88E-06	3.82E-06	6.67E-06	3.80E-06	4.8001E-03
519928.21	4258782.23	23861.37885	0.55314	0.51518	0.60415	0.49321	4.78E-03	2.26E-05	1.84E-05	2.47E-05	1.69E-05	4.8613E-03
520095.38	4259187.99	23848.69627	12.09062	0.20029	11.40588	0.18916	4.78E-03	4.95E-04	7.16E-06	4.67E-04	6.49E-06	5.7517E-03
520624.55	4258876.26	23848.48276	0.16547	0.10709	0.16054	0.11106	4.78E-03	6.78E-06	3.83E-06	6.57E-06	3.81E-06	4.7970E-03
520029.44	4258511.69	23831.3498	0.56745	4.01668	0.63926	3.29541	4.77E-03	2.32E-05	1.44E-04	2.62E-05	1.13E-04	5.0788E-03
520628.2	4258867.55	23817.37588	0.16304	0.10749	0.15818	0.11141	4.77E-03	6.68E-06	3.84E-06	6.48E-06	3.82E-06	4.7906E-03
519921.56	4258838.55	23813.31155	0.5804	0.41533	0.6325	0.40068	4.77E-03	2.38E-05	1.49E-05	2.59E-05	1.38E-05	4.8472E-03
520630.98	4258411.39	23799.74963	0.1382	0.15013	0.13482	0.15898	4.77E-03	5.66E-06	5.37E-06	5.52E-06	5.39E-06	4.7882E-03
519931.08	4258765.04	23781.9357	0.54647	0.55303	0.59837	0.52853	4.76E-03	2.24E-05	1.98E-05	2.45E-05	1.81E-05	4.8475E-03
519925.23	4258799.15	23776.26634	0.55693	0.48058	0.60712	0.46098	4.76E-03	2.28E-05	1.72E-05	2.49E-05	1.58E-05	4.8422E-03
519957.12	4258673.87	23774.04112	0.55108	0.88625	0.61977	0.83301	4.76E-03	2.26E-05	3.17E-05	2.54E-05	2.86E-05	4.8693E-03
519950.71	4258691.8	23771.34985	0.54647	0.79541	0.60925	0.75182	4.76E-03	2.24E-05	2.85E-05	2.49E-05	2.58E-05	4.8621E-03
520657.61	4258701.55	23767.39848	0.1393	0.12099	0.13453	0.12514	4.76E-03	5.70E-06	4.33E-06	5.51E-06	4.30E-06	4.7796E-03
520631.85	4258858.83	23766.97207	0.16065	0.10781	0.1558	0.11169	4.76E-03	6.58E-06	3.86E-06	6.38E-06	3.83E-06	4.7803E-03
519923.21	4258914.86	23736.79121	0.66493	0.32283	0.72381	0.31675	4.75E-03	2.72E-05	1.15E-05	2.96E-05	1.09E-05	4.8329E-03
520148.93	4258202.53	23730.70544	0.19531	4.21888	0.19684	4.85442	4.75E-03	8.00E-06	1.51E-04	8.06E-06	1.67E-04	5.0860E-03
520635.5	4258850.12	23711.04891	0.15827	0.10816	0.15346	0.11199	4.75E-03	6.48E-06	3.87E-06	6.28E-06	3.84E-06	4.7689E-03
520590.85	4258951.86	23659.68137	0.1887	0.10387	0.18254	0.10822	4.74E-03	7.73E-06	3.72E-06	7.47E-06	3.72E-06	4.7608E-03
520639.15	4258841.4	23640.93291	0.15591	0.10856	0.15117	0.11233	4.73E-03	6.38E-06	3.88E-06	6.19E-06	3.86E-06	4.7547E-03
520631.33	4258214.14	23638.11284	0.12453	0.16075	0.1232	0.16723	4.73E-03	5.10E-06	5.75E-06	5.04E-06	5.74E-06	4.7555E-03
519941.95	4258718.91	23634.55212	0.59331	0.68578	0.5983	0.65103	4.73E-03	2.21E-05	2.45E-05	2.45E-05	2.24E-05	4.8266E-03
520659.94	4258743.86	23618.66812	0.14057	0.11546	0.13592	0.11962	4.73E-03	5.76E-06	4.13E-06	5.57E-06	4.11E-06	4.7495E-03
520064.89	4258352.61	23582.61859	0.27271	20.91151	0.29095	10.16797	4.72E-03	1.12E-05	7.48E-04	1.19E-05	3.49E-04	5.8429E-03
520634.53	4258394.85	23577.00431	0.13601	0.14943	0.13279	0.15619	4.72E-03	5.57E-06	5.34E-06	5.44E-06	5.36E-06	4.7433E-03
520630.06	4258203.59	23569.0063	0.12413	0.16152	0.12292	0.16826	4.72E-03	5.08E-06	5.78E-06	5.03E-06	5.78E-06	4.7417E-03
519922.15	4258815.84	23560.72294	0.55832	0.44895	0.60757	0.43161	4.72E-03	2.29E-05	1.61E-05	2.49E-05	1.48E-05	4.7970E-03
520642.8	4258832.68	23553.50163	0.15358	0.10889	0.14887	0.11259	4.72E-03	6.29E-06	3.89E-06	6.10E-06	3.87E-06	4.7371E-03
520660.51	4258718.58	23533.67206	0.13897	0.11817	0.13438	0.12236	4.71E-03	5.69E-06	4.23E-06	5.50E-06	4.20E-06	4.7326E-03
520577.8	4258977.27	23506.04596	0.19828	0.10335	0.19151	0.1077	4.71E-03	8.12E-06	3.70E-06	7.84E-06	3.70E-06	4.7308E-03
520612	4258913.08	23501.46164	0.17417	0.10846	0.16891	0.10881	4.71E-03	7.13E-06	3.74E-06	6.92E-06	3.74E-06	4.7280E-03
519919.07	4258880.76	23479.78503	0.60704	0.35768	0.66041	0.34812	4.70E-03	2.49E-05	1.28E-05	2.70E-05	1.20E-05	4.7788E-03
520600.58	4258937.82	23479.40125	0.18204	0.10371	0.1763	0.10799	4.70E-03	7.45E-06	3.71E-06	7.22E-06	3.71E-06	4.7242E-03
520207.88	4258132.72	23466.83534	0.17301	1.9515	0.17571	2.16402	4.70E-03	7.08E-06	6.88E-05	7.19E-06	7.43E-05	4.8579E-03
520628.88	4258193.07	23464.91045	0.12371	0.16217	0.12269	0.16921	4.70E-03	5.07E-06	5.80E-06	5.02E-06	5.81E-06	4.7209E-03
520635.85	4258236.11	23458.98373	0.12485	0.15781	0.12349	0.16389	4.70E-03	5.11E-06	5.64E-06	5.06E-06	5.63E-06	4.7194E-03
520198.06	4258142.69	23454.57795	0.17561	2.17096	0.17779	2.41705	4.70E-03	7.19E-06	7.77E-05	7.28E-06	8.30E-05	4.8722E-03
520119.43	4258242.44	23454.04248	0.21009	7.73703	0.21436	9.08695	4.70E-03	8.60E-06	2.77E-04	8.78E-06	3.12E-04	5.3031E-03
519967.12	4258646.05	23448.27507	0.55411	1.04994	0.62504	0.98265	4.70E-03	2.27E-05	3.76E-05	2.56E-05	3.37E-05	4.8154E-03
520646.45	4258823.97	23446.13559	0.15128	0.1092	0.1466	0.11284	4.70E-03	6.19E-06	3.91E-06	6.00E-06	3.87E-06	4.7154E-03
520634.63	4258225.57	23445.70361	0.12442	0.15877	0.12304	0.16494	4.70E-03	5.09E-06	5.68E-06	5.04E-06	5.66E-06	4.7168E-03
520639.88	4258305.41	23431.57207	0.12871	0.15131	0.12722	0.15835	4.69E-03	5.27E-06	5.41E-06	5.21E-06	5.44E-06	4.7138E-03
520637.17	4258246.68	23428.78758	0.12524	0.15669	0.12396	0.16274	4.69E-03	5.13E-06	5.60E-06	5.08E-06	5.59E-06	4.7133E-03
520217.7	4258122.75	23417.25371	0.17034	1.76529	0.17365	1.94858	4.69E-03	6.97E-06	6.11E-05	7.11E-06	6.69E-05	4.8337E-03
520188.24	4258152.66	23415.15872	0.17828	2.43115	0.17996	2.72115	4.69E-03	7.30E-06	8.70E-05	7.37E-06	9.34E-05	4.8843E-03
520045.82	4259157.25	23392.01788	5.78934	0.1999	8.0689	0.1944	4.68E-03	2.37E-04	7.15E-06	3.30E-04	6.67E-06	5.2658E-03
519918.5	4258855.26	23383.66091	0.57885	0.38871	0.62932	0.37622	4.68E-03	2.37E-05	1.39E-05	2.58E-05	1.29E-05	4.7592E-03
520085.48	4259188.01	23378.47815	16.19473	0.1977	18.02497	0.18778	4.68E-03	6.63E-04	7.07E-06	7.38E-04	6.45E-06	6.0965E-03
520139.11	4258212.5	23375.36212	0.19784	5.02977	0.19983	5.83576	4.68E-03	8.10E-06	1.80E-04	8.18E-06	2.00E-04	5.0778E-03
520227.52	4258112.78	23347.50697	0.16773	1.60466	0.17165	1.76506	4.68E-03	6.87E-06	5.74E-05	7.03E-06	6.06E-05	4.8075E-03
520638.6	4258257.31	23344.28834	0.12558	0.15541	0.1244	0.1615	4.68E-03	5.14E-06	5.56E-06	5.09E-06	5.54E-06	4.6964E-03
520587.71	4258963.16	23338.3425	0.19099	0.10306	0.18467	0.10737	4.67E-03	7.82E-06	3.69E-06	7.56E-06	3.69E-06	4.6966E-03
520639.41	4258355.93	23322.97248	0.13211	0.14877	0.12936	0.15575	4.67E-03	5.41E-06	5.32E-06	5.30E-06	5.35E-06	4.6921E-03
520650.1	4258815.25	23316.32291	0.14901	0.10949	0.14435	0.11307	4.67E-03	6.10E-06	3.92E-06	5.91E-06	3.88E-06	4.6892E-03
519919.51	4258905.94	23315.03929	0.63215	0.32951	0.68711	0.32253	4.67E-03	2.59E-05	1.18E-05	2.81E-05	1.11E-05	4.7460E-03
520178.42	4258162.63	23310.2344	0.18087	2.74569	0.18221	3.08811	4.67E-03	7.41E-06	9.82E-05	7.46E-06	1.06E-04	4.8873E-03
520659.52	4258768.81	23297.36592	0.14199	0.11254	0.13722	0.11641	4.67E-03	5.81E-06	4.03E-06	5.62E-06	4.00E-06	4.6851E-03
520055.74	4259167.23	23282.08738	8.30476	0.19836	14.50856	0.19186	4.66E-03	3.40E-04	7.10E-06	5.94E-04	6.59E-06	5.6103E-03
520638.18	4258378.55	23269.19934	0.13182	0.1485	0.13075	0.15524	4.66E-03	5.48E-06	5.31E-06	5.35E-06	5.33E-06	4.6814E-03
520624.97	4258473.23	23231.3259	0.14326	0.14803	0.13879	0.15615	4.65E-03	5.87E-06	5.33E-06	5.68E-06	5.36E-06	4.6746E-03
520640.15	4258267.98	23224.05388	0.1259	0.15394	0.12478	0.16016	4.65E-03	5.15E-06	5.51E-06	5.11E-06	5.50E-06	4.6722E-03
520039.85	4258457.01	23223.5358	0.41853	5.66527	0.45334	4.42804	4.65E-03	1.71E-05	2.03E-04	1.86E-05	1.52E-04	5.0412E-03
520055.59	4258376.43	23199.71239	0.29136	10.82716	0.31116	7.27638	4.65E-03	1.19E-05	3.87E-04	1.27E-05	2.50E-04	5.3078E-03
520168.6	4258172.6	23170.79373	0.1835	3.12981	0.1846	3.54394	4.64E-03	7.51E-06	1.12E-04	7.56E-06	1.22E-04	4.8890E-03
520663.5	4258735.36	23165.31515	0.13858	0.11535	0.13405	0.1195	4.64E-03	5.67E-06	4.13E-06	5.49E-06	4.10E-06	4.6586E-03
520653.75	4258806.54	23161.23668	0.14679	0.10984	0.14219	0.11336	4.64E-03	6.01E-06	3.93E-06	5.82E-06	3.89E-06	4.6580E-03
520610.51	4258923.7	23132.32818	0.17533	0.10351	0.17001	0.10767	4.63E-03	7.18E-06	3.70E-06	6.96E-06	3.70E-06	4.6541E-03
520630.96	4258437.21	23117.84318	0.13946	0.14839	0.13574	0.15532	4.63E-03	5.71E-06	5.31E-06	5.56E-06	5.33E-06	4.6516E-03
520099.76	4258272.38	23114.46709	0.22224	14.5729	0.23022	15.63921	4.63E-03	9.10E-06	5.21E-04	8.43E-06	5.37E-04	5.7057E-03
520661.22	4258692.92	23101.89752	0.13736	0.12073	0.13255	0.12476	4.63E-03	5.62E-06	4.32E-06	5.43E-06	4.28E-06	4.6461E-03
520663.05	4258760.37	23046.75285	0.14009	0.11265	0.13545	0.11659	4.62E-03	5.74E-06	4.03E-06	5.55E-06	4.00E-06	4.6347E-03
520599.35	4258948.34	23031.11502	0.18295	0.10255	0.17713	0.10678	4.61E-03	7.49E-06	3.67E-06	7.25E-06	3.67E-06	4.6344E-03
520634.38	4258420.31	23030.79356	0.13739	0.14788	0.13388	0.15465	4.61E-03	5.63E-06	5.29E-06	5.48E-06	5.31E-06	4.6339E-03
520642.21	4258278.88	23019.32858	0.12609	0.15208	0.12494	0.1585	4.61E-03	5.16E-06	5.44E-06	5.12E-06	5.44E-06	4.6311E-03
520019.52	4258531.13	23005.26402	0.58549	3.07551	0.67301	2.60592	4.61E-03	2.40E-05	1.10E-04	2.76E-05	8.95E-05	4.8581E-03
520094.86	4259199.84	23004.63348	12.10895	0.19453	11.59905	0.1839	4.61E-03	4.96E-04	4.75E-04	4.75E-04	6.31E-06	5.5910E-03
519921.88	4258941.68	22991.56255	0.67611	0.2957	0.73513	0.29139	4.60E-03	2.77E-05	1.06E-05	3.01E-05	1.00E-05	4.6827E-03
519923.78	4258952.46	22977.75188	0.69736	0.28716	0.7587	0.28345	4.60E-03	2.86E-05	1.03E-05	3.11E-05	9.73E-06	4.6812E-03
520657.4	4258797.82	22976.58277	0.1446	0.11003	0.14002	0.11354	4.60E-03	5.92E-06	3.94E-06	5.73E-06	3.90E-06	4.6209E-03
520664.09	4258710.02	22960.30826	0.13701	0.1181	0.1325	0.12216	4.60E-03	5.61E-06	4.22E-06	5.43E-06	4.19E-06	4.6176E-03
520158.78	4258182.57	22957.32893	0.18603	3.61134	0.18711	4.11445	4.60E-03	7.62E-06	1.29E-04	7.66E-06	1.41E-04	4.8833E-03
519917.77	4258829.41	22954.30457	0.56488	0.42243	0.59423	0.40684	4.60E-03	2.24E-05	1.51E-05	2.43E-05	1.40E-05	4.6727E-03
520129.29	4258222.47	22952.70116	0.20021	6.14098	0.20295	7.19255	4.60E-03	8.20E-06	2.20E-04	8.31E-06	2.47E-04	5.0797E-03
520643.29	4258314.37	22936.25512	0.12823	0.1491	0.12649	0.1561	4.59E-03	5.25E-06	5.33E-06	5.18E-06	5.36E-06	4.6144E-03
519932.56	4258744.48	22933.19194	0.52127	0.5962	0.57447	0.56825	4.59E-03	2.13E-05	2.13E-05	2.35E-05	1.95E-05	4.6784E-03
520643.02	4258339.53	22894.76208	0.1299	0.14792	0.12751	0.1549	4.58E-03	5.32E-06	5.29E-06	5.22E-06	5.32E-06	4.6061E-03
519944.62	4258701.24	22891.14518	0.52384	0.73815	0.58109	0.69978	4.58E-03	2.14E-05	2.64E-05	2.38E-05	2.40E-05	4.6799E-03
519915.34	4258871.78	22882.31903	0.5755	0.36453	0.62433	0.35395	4.58E-03	2.36E-05	1.30E-05	2.56E-05	1.22E-05	4.6568E-03
520637.9	4258403.69	22875.89102	0.13528	0.14724	0.13193	0.15387	4.58E-03	5.54E-06	5.27E-06	5.40E-06	5.28E-06	4.6027E-03
520586.48	4258973.68	22859.6558	0.19188	0.10194	0.18545	0.10619	4.58E-03	7.86E-06	3.65E-06	7.59E-06	3.65E-06	4.6007E-03
519915.82	4258897.03	22847.78384	0.60084	0.33616	0.652	0.32821	4.58E-03	2.46E-05	1.20E-05	2.67E-05	1.13E-05	4.6502E-03
520109.62	4258252.41	22839.28243	0.21205	10.22686	0.21773	11.89476	4.57E-03	8.68E-06	3.66E-04	8.91E-06	4.08E-04	5.3656E-03
520661.05	4258789.11	22759.51189	0.14247	0.11009	0.1379	0.11364	4.56E-03	5.83E-06	3.94E-06	5.65E-06	3.90E-06	4.5772E-03
520609.13	4258934.28	22750.83403	0.17638	0.10237	0.17098	0.10651	4.56E-03	7.22E-06	3.66E-06	7.00E-06	3.66E-06	4.5777E-03
520642.89	4258365.05	22730.29148	0.13146	0.1468	0.12852	0.15352	4.55E-03	5.38E-06	5.25E-06	5.26E-06	5.27E-06	4.5732E-03
520624.29	4258900.84	22728.92019	0.1664	0.10365	0.16152	0.1076	4.55E-03	6.81E-06	3.71E-06	6.61E-06	3.69E-06	4.5726E-03
520627.91	4258892.19	22722.89265	0.16406	0.10404	0.15926	0.10793	4.55E-03	6.72E-06	3.72E-06	6.52E-06	3.71E-06	4.5712E-03
520045.84	4259167.25	22722.2932	5.83543	0.19496	8.09977	0.18865	4.55E-03	2.39E-04	6.97E-06	3.32E-04	6.51E-06	5.1345E-03
520631.53	4258883.54	22707.31096	0.16174	0.10444	0.15702	0.10828	4.55E-03	6.62E-06	3.74E-06	6.43E-06	3.72E-06	4.5680E-03
520148.96	4258192.53	22702.01557	0.18853	4.22502	0.18976	4.85807	4.55E-03	7.72E-06	1.51E-04	7.77E-06	1.67E-04	4.8798E-03
520596.45	4258959.54	22697.16735	0.18495	0.10168	0.17895	0.10589	4.55E-03	7.57E-06	3.64E-06	7.33E-06	3.64E-06	4.5676E-03
519957.12	4258664.6	22684.43285	0.52919	0.90952	0.59369	0.85506	4.54E-03	2.17E-05	3.25E-05	2.43E-05	2.94E-05	4.6507E-03
520666.58	4258751.94	22682.96868	0.13811	0.11269	0.13363	0.11666	4.54E-03	5.65E-06	4.03E-06	5.47E-06	4.01E-06	4.5617E-03
519921.53	4258790.23	22682.78212	0.52272	0.48657	0.56813	0.4667	4.54E-03	2.14E-05	1.74E-05	2.33E-05	1.60E-05	4.6206E-03
520635.15	4258874.89	22682.54032	0.15943	0.10484	0.15479	0.10863	4.54E-03	6.53E-06	3.75E-06	6.34E-06	3.73E-06	4.5628E-03
520667.06	4258726.87	22680.44043	0.13666	0.11515	0.1322	0.11926	4.54E-03	5.60E-06	4.12E-06	5.41E-06	4.09E-06	4.5613E-03
520009.61	4258550.57	22660.34889	0.5914	2.41549	0.68775	2.10303	4.54E-03	2.42E-05	8.64E-05	2.82E-05	7.22E-05	4.7490E-03
520638.98	4258207.4	22642.89764	0.12195	0.15663	0.12058	0.16289	4.53E-03	4.99E-06	5.60E-06	4.94E-06	5.59E-06	4.5557E-03
520638.77	4258866.24	22642.40584	0.15715	0.1052	0.15256	0.10894	4.53E-03	6.43E-06	3.76E-06	6.25E-06	3.74E-06	4.5546E-03
520641.51	4258387.31	22639.89524	0.13315	0.14641	0.12994	0.15298	4.53E-03	5.45E-06	5.24E-06	5.32E-06	5.25E-06	4.5552E-03
520640.31	4258217.98	22638.61406	0.12225	0.15587	0.12087	0.16186	4.53E-03	5.01E-06	5.58E-06	4.95E-06	5.56E-06	4.5548E-03
519914.74	4258846.2	22633.51397	0.54687	0.3957	0.59318	0.38216	4.53E-03	2.24E-05	1.42E-05	2.43E-05	1.31E-05	4.6066E-03
519924.47	4258773.22	22632.01581	0.5174	0.52067	0.56341	0.49873	4.53E-03	2.12E-05	1.86E-05	2.31E-05	1.71E-05	4.6124E-03
520055.76	4259177.23	22624.27858	8.37566	0.19355	14.61722	0.18727	4.53E-03	3.43E-04	6.92E-06	5.98E-04	6.43E-06	5.4856E-03
520637.74	4258196.86	22600.652	0.12159	0.15726	0.12033	0.16382	4.53E-03	4.98E-06	5.62E-06	4.93E-06	5.62E-06	4.5472E-03
519918.48	4258807	22590.30133	0.5256	0.45524	0.57041	0.43735	4.52E-03	2.15E-05	1.63E-05	2.34E-05	1.50E-05	4.6002E-03
520642.4	4258857.59	22588.68168	0.15489	0.10543	0.15029	0.10914	4.52E-03	6.34E-06	3.77E-06	6.15E-06	3.75E-06	4.5437E-03
519916.17	4258922	22588.48017	0.62325	0.31049	0.67579	0.30476	4.52E-03	2.55E-05	1.11E-05	2.77E-05	1.05E-05	4.5984E-03
520628.28	4258481.9	22579.9256	0.14222	0.14702	0.13752	0.15394	4.52E-03	5.82E-06	5.26E-06	5.63E-06	5.28E-06	4.5439E-03
520084.96	4259199.85	22561.86465	16.23762	0.19199	18.48339	0.18254	4.52E-03	6.65E-04	6.87E-06	7.57E-04	6.27E-06	5.9531E-03
519935.46	4258727.38	22550.45274	0.51237	0.64005	0.56496	0.60942	4.52E-03	2.10E-05	2.29E-05	2.31E-05	2.09E-05	4.6040E-03
520646.02	4258848.94	22508.05849	0.15262	0.10573	0.14805	0.10939	4.51E-03	6.25E-06	3.78E-06	6.06E-06	3.76E-06	4.5274E-03
520056.13	4258366.21	22491.27721	0.27764	11.12471	0.29615	7.41828	4.50E-03	1.14E-05	3.98E-04	1.21E-05	2.55E-04	5.1803E-03
519999.69	4258570	22491.02055	0.58548	1.94363	0.68423	1.72989	4.50E-03	2.40E-05	6.95E-05	2.80E-05	5.94E-05	4.6850E-03
520207.91	4258122.72	22486.90932	0.16773	1.95411	0.16995	2.16398	4.50E-03	6.87E-06	6.99E-05	6.96E-06	7.43E-05	4.6613E-03
520198.09	4258132.69	22485.08716	0.17021	2.17317	0.1719	2.41859	4.50E-03	6.97E-06	7.77E-05	7.04E-06	8.30E-05	4.6777E-03
520664.69	4258780.39	22470.71961	0.14033	0.10998	0.13576	0.1136	4.50E-03	5.75E-06	3.93E-06	5.56E-06	3.90E-06	4.5192E-03
520217.73	4258112.75	22469.35682	0.16533	1.7671	0.16808	1.94961	4.50E-03	6.77E-06	6.32E-05	6.88E-06	6.69E-05	4.6436E-03
520649.64	4258840.29	22455.16805	0.15042	0.10626	0.14598	0.10984	4.50E-03	6.16E-06	3.80E-06	5.98E-06	3.77E-06	4.5167E-03
520643.35	4258229.3	22448.93518	0.12222	0.154	0.12083	0.1598	4.50E-03	5.00E-06	5.51E-06	4.95E-06	5.49E-06	4.5167E-03
520119.47	4258232.44	22442.70689	0.20227	7.74917	0.20614	9.10789	4.49E-03	8.28E-06	2.77E-04	8.44E-06

520650.45	4258307.3	21950.3704	0.12551	0.14602	0.12386	0.15268	4.40E-03	5.14E-06	5.22E-06	5.07E-06	5.24E-06	4.4165E-03
520084.98	4259209.85	21920.88291	16.0936	0.18749	18.37711	0.17836	4.39E-03	6.59E-04	6.71E-06	7.52E-04	6.12E-06	5.8142E-03
520040.84	4258422.46	21916.90013	0.33981	5.89923	0.36327	4.61787	4.39E-03	1.39E-05	2.11E-04	1.49E-05	1.59E-04	4.7875E-03
519914.74	4258948.73	21904.55547	0.63321	0.2851	0.68615	0.28105	4.39E-03	2.59E-05	1.02E-05	2.81E-05	9.65E-06	4.4606E-03
519938.24	4258709.97	21902.41614	0.49892	0.68741	0.55147	0.65321	4.39E-03	2.04E-05	2.46E-05	2.26E-05	2.24E-05	4.4763E-03
520109.65	4258242.41	21859.06159	0.204	10.25357	0.20927	11.87741	4.38E-03	8.35E-06	3.67E-04	8.57E-06	4.08E-04	5.1690E-03
520671.99	4258762.96	21858.35334	0.13628	0.10986	0.13187	0.11364	4.38E-03	5.58E-06	3.93E-06	5.40E-06	3.90E-06	4.3962E-03
519910.98	4258837.14	21838.90512	0.51646	0.40206	0.55867	0.3877	4.37E-03	2.11E-05	1.44E-05	2.29E-05	1.33E-05	4.4453E-03
520673.65	4258735.07	21816.69491	0.13428	0.11229	0.12997	0.11628	4.37E-03	5.50E-06	4.02E-06	5.32E-06	3.99E-06	4.3879E-03
519947.12	4258683.15	21806.38265	0.50295	0.79367	0.55946	0.75043	4.37E-03	2.06E-05	2.84E-05	2.29E-05	2.58E-05	4.4647E-03
520667.75	4258797.04	21779.9798	0.13981	0.10748	0.13547	0.11085	4.36E-03	5.72E-06	3.84E-06	5.55E-06	3.81E-06	4.3807E-03
519908.43	4258879.21	21774.47485	0.54216	0.34896	0.58575	0.33904	4.36E-03	2.22E-05	1.25E-05	2.40E-05	1.16E-05	4.4309E-03
519908.83	4258904.31	21748.91201	0.56513	0.3227	0.61077	0.31521	4.36E-03	2.31E-05	1.15E-05	2.50E-05	1.08E-05	4.4426E-03
520671.25	4258692.91	21734.91315	0.13327	0.11758	0.12871	0.12141	4.35E-03	5.46E-06	4.21E-06	5.27E-06	4.17E-06	4.3718E-03
520148.99	4258182.53	21734.13692	0.18211	4.23212	0.18311	4.85666	4.35E-03	7.46E-06	1.51E-04	7.50E-06	1.67E-04	4.6856E-03
520646.59	4258200.65	21722.26263	0.11947	0.15263	0.11806	0.15872	4.35E-03	4.89E-06	5.46E-06	4.83E-06	5.45E-06	4.3708E-03
520634.62	4258472.69	21715.82923	0.13941	0.1446	0.13492	0.1514	4.35E-03	5.71E-06	5.17E-06	5.52E-06	5.20E-06	4.3705E-03
520647.89	4258211.22	21701.97585	0.11974	0.15196	0.11831	0.15775	4.35E-03	4.90E-06	5.44E-06	4.84E-06	5.42E-06	4.3667E-03
520616.34	4258941.3	21683.79938	0.1719	0.09993	0.16667	0.10392	4.34E-03	7.04E-06	3.57E-06	6.82E-06	3.57E-06	4.3635E-03
520603.85	4258966.49	21678.15081	0.18004	0.0993	0.17423	0.10334	4.34E-03	7.37E-06	3.55E-06	7.13E-06	3.55E-06	4.3630E-03
520649.28	4258221.83	21675.52869	0.12007	0.15108	0.11863	0.15671	4.34E-03	4.92E-06	5.40E-06	4.86E-06	5.38E-06	4.3614E-03
520095.31	4259220.66	21667.64588	11.78707	0.18528	11.30752	0.17533	4.34E-03	4.83E-04	6.63E-06	4.63E-04	6.02E-06	5.2975E-03
520631.32	4258907.99	21666.69247	0.16249	0.10113	0.15778	0.10496	4.34E-03	6.65E-06	3.62E-06	6.46E-06	3.60E-06	4.3594E-03
520634.91	4258899.4	21661.92698	0.16028	0.10151	0.15565	0.10528	4.34E-03	6.56E-06	3.63E-06	6.37E-06	3.61E-06	4.3583E-03
520638.51	4258890.81	21645.0008	0.15807	0.10188	0.15352	0.1056	4.33E-03	6.47E-06	3.64E-06	6.29E-06	3.63E-06	4.3547E-03
520674.17	4258709.89	21632.43669	0.13291	0.11512	0.12864	0.11897	4.33E-03	5.44E-06	4.12E-06	5.27E-06	4.08E-06	4.3511E-03
520642.11	4258882.22	21621.48989	0.15588	0.10226	0.15141	0.10593	4.33E-03	6.38E-06	3.66E-06	6.20E-06	3.64E-06	4.3499E-03
520046.24	4258390.27	21609.27118	0.29544	7.13838	0.31452	5.41589	4.33E-03	1.21E-05	2.55E-04	1.29E-05	1.86E-04	4.7938E-03
520645.7	4258873.63	21587.55408	0.15371	0.10262	0.1493	0.10624	4.32E-03	6.29E-06	3.67E-06	6.11E-06	3.65E-06	4.3429E-03
520637.83	4258455.25	21584.3424	0.13757	0.14404	0.13347	0.15081	4.32E-03	5.63E-06	5.15E-06	5.46E-06	5.18E-06	4.3440E-03
519914.81	4258798.15	21583.16131	0.49454	0.46059	0.53538	0.44248	4.32E-03	2.02E-05	1.65E-05	2.19E-05	1.52E-05	4.3962E-03
520207.94	4258112.72	21581.23858	0.16276	1.95586	0.16451	2.16442	4.32E-03	6.66E-06	7.00E-05	6.74E-06	7.43E-05	4.4796E-03
519957.12	4258655.32	21579.40761	0.50808	0.93077	0.56808	0.87603	4.32E-03	2.08E-05	3.33E-05	2.33E-05	3.01E-05	4.4290E-03
520198.12	4258122.69	21572.26872	0.16505	2.17512	0.16632	2.4193	4.32E-03	6.76E-06	7.78E-05	6.81E-06	8.31E-05	4.4946E-03
519917.82	4258781.3	21558.25079	0.48044	0.4914	0.53146	0.47164	4.32E-03	2.01E-05	1.76E-05	2.18E-05	1.62E-05	4.3929E-03
520675.64	4258754.24	21552.55334	0.13441	0.10992	0.13014	0.11373	4.32E-03	5.50E-06	3.93E-06	5.33E-06	3.90E-06	4.3349E-03
519907.89	4258853.81	21544.04826	0.51639	0.37739	0.55721	0.36493	4.31E-03	2.11E-05	1.35E-05	2.28E-05	1.25E-05	4.3845E-03
520649.3	4258865.04	21543.46457	0.15157	0.10289	0.14718	0.10648	4.31E-03	6.21E-06	3.68E-06	6.03E-06	3.66E-06	4.3339E-03
520045.87	4259187.25	21536.31597	5.898	0.18593	8.17959	0.18093	4.31E-03	2.41E-04	6.65E-06	3.35E-04	6.21E-06	4.9022E-03
520063.58	4258333.18	21534.87008	0.24735	18.29936	0.26303	9.6878	4.31E-03	1.01E-05	6.55E-04	1.08E-05	3.33E-04	5.3207E-03
520671.37	4258788.38	21532.57284	0.13776	0.10741	0.13341	0.11084	4.31E-03	5.64E-06	3.84E-06	5.46E-06	3.81E-06	4.3309E-03
520188.3	4258132.66	21528.64559	0.16736	2.43547	0.16822	2.72473	4.31E-03	6.85E-06	8.71E-05	6.89E-06	9.35E-05	4.5058E-03
520641.17	4258438.16	21528.23171	0.13568	0.14354	0.13188	0.15018	4.31E-03	5.56E-06	5.13E-06	5.40E-06	5.16E-06	4.3326E-03
519928.92	4258735.72	21524.73295	0.48705	0.5992	0.53411	0.57204	4.31E-03	1.99E-05	2.14E-05	2.19E-05	1.96E-05	4.3935E-03
519909	4258028.82	21509.18344	0.58455	0.29913	0.63157	0.29367	4.31E-03	2.39E-05	1.07E-05	2.59E-05	1.01E-05	4.3781E-03
520653.83	4258316.18	21508.93212	0.12508	0.14383	0.12311	0.15047	4.31E-03	5.12E-06	5.14E-06	5.04E-06	5.17E-06	4.3279E-03
520119.5	4258222.44	21504.06249	0.19495	7.762	0.19845	9.13619	4.31E-03	7.98E-06	2.78E-04	8.13E-06	3.14E-04	4.9139E-03
520652.9	4258456.44	21488.47926	0.14942	0.10317	0.14506	0.10672	4.30E-03	6.12E-06	3.69E-06	5.94E-06	3.66E-06	4.3328E-03
520032.83	4258474.07	21478.54246	0.44214	4.54755	0.48265	3.67788	4.30E-03	1.81E-05	1.63E-04	1.98E-05	1.26E-04	4.6282E-03
520652.07	4258233.03	21471.25971	0.12005	0.14934	0.11867	0.15485	4.30E-03	4.92E-06	5.34E-06	4.86E-06	5.32E-06	4.3203E-03
520654.25	4258291.42	21459.16066	0.12334	0.1451	0.12195	0.15142	4.30E-03	5.05E-06	5.19E-06	4.99E-06	5.20E-06	4.3179E-03
520029.36	4258492.3	21456.00994	0.48734	4.0818	0.53773	3.35986	4.30E-03	2.00E-05	1.46E-04	2.20E-05	1.15E-04	4.6002E-03
520656.5	4258447.85	21427.75959	0.14731	0.10363	0.14306	0.1071	4.29E-03	6.03E-06	3.71E-06	5.86E-06	3.68E-06	4.3105E-03
520139.17	4258192.5	21423.74751	0.18428	5.04568	0.18574	5.8407	4.29E-03	7.55E-06	1.80E-04	7.60E-06	2.01E-04	4.6865E-03
520178.48	4258142.63	21413.88246	0.16955	2.75115	0.17018	3.0912	4.29E-03	6.94E-06	9.84E-05	6.97E-06	1.06E-04	4.5069E-03
520613.93	4258952.31	21406.69531	0.17348	0.09907	0.16812	0.10305	4.29E-03	7.10E-06	3.54E-06	6.88E-06	3.54E-06	4.3081E-03
520653.41	4258243.62	21391.93252	0.12038	0.14826	0.11909	0.15378	4.28E-03	4.93E-06	5.30E-06	4.88E-06	5.28E-06	4.3044E-03
519920.74	4258764.21	21378.58328	0.48382	0.52504	0.52567	0.50332	4.28E-03	1.98E-05	1.88E-05	2.15E-05	1.73E-05	4.3587E-03
520677.18	4258726.64	21365.75251	0.13246	0.11222	0.12826	0.11614	4.28E-03	5.42E-06	4.01E-06	5.25E-06	3.99E-06	4.2975E-03
520660.09	4258839.26	21355.18312	0.1452	0.10405	0.14105	0.10744	4.28E-03	5.95E-06	3.72E-06	5.78E-06	3.69E-06	4.2958E-03
520626.23	4258927.2	21347.25164	0.16577	0.09967	0.16086	0.10355	4.28E-03	6.79E-06	3.57E-06	6.59E-06	3.55E-06	4.2956E-03
520036.38	4258441.17	21312.87662	0.36748	5.1098	0.39463	4.09337	4.27E-03	1.50E-05	1.83E-04	1.62E-05	1.41E-04	4.6227E-03
520019.48	4258521.43	21312.1974	0.54311	3.11741	0.61576	2.64249	4.27E-03	2.22E-05	1.12E-04	2.52E-05	9.07E-05	4.5177E-03
520654.85	4258254.25	21287.27911	0.12069	0.14701	0.11947	0.15264	4.26E-03	4.94E-06	5.26E-06	4.89E-06	5.24E-06	4.2834E-03
520674.99	4258779.73	21278.33961	0.13578	0.10739	0.13149	0.11089	4.26E-03	5.56E-06	3.84E-06	5.38E-06	3.81E-06	4.2799E-03
520085.41	4259220.68	21274.03973	15.74677	0.18291	17.82027	0.17407	4.26E-03	6.45E-04	6.54E-06	7.30E-04	5.98E-06	5.6473E-03
519905.17	4258895.46	21266.79744	0.53782	0.32873	0.58031	0.32029	4.26E-03	2.20E-05	1.18E-05	2.38E-05	1.10E-05	4.3275E-03
520168.66	4258152.6	21260.04375	0.17174	3.13782	0.17227	3.54327	4.26E-03	7.03E-06	1.12E-04	7.05E-06	1.22E-04	4.5056E-03
520663.69	4258830.67	21259.57254	0.14314	0.10435	0.13901	0.10767	4.26E-03	5.86E-06	3.73E-06	5.69E-06	3.70E-06	4.2765E-03
520055.26	4259199.9	21237.40478	8.3029	0.18328	14.25239	0.1775	4.25E-03	3.40E-04	6.55E-06	5.84E-04	6.09E-06	5.1892E-03
520099.83	4258252.38	21206.84799	0.20533	14.65645	0.21217	15.72365	4.25E-03	8.41E-06	5.24E-04	8.69E-06	5.40E-04	5.3281E-03
519904.73	4258870.3	21171.6787	0.51471	0.35488	0.55452	0.3441	4.24E-03	2.11E-05	1.27E-05	2.27E-05	1.18E-05	4.3082E-03
520679.29	4258745.53	21167.35049	0.1325	0.1099	0.12839	0.11372	4.24E-03	5.43E-06	3.93E-06	5.26E-06	3.90E-06	4.2576E-03
520656.41	4258264.93	21144.38484	0.12097	0.14563	0.11976	0.15141	4.23E-03	4.95E-06	5.21E-06	4.90E-06	5.20E-06	4.2547E-03
520667.29	4258822.08	21144.16031	0.14113	0.10449	0.13696	0.10777	4.23E-03	5.78E-06	3.74E-06	5.61E-06	3.70E-06	4.2532E-03
520047.06	4258379.95	21139.65758	0.2817	7.35746	0.29957	5.55724	4.23E-03	1.15E-05	2.63E-04	1.23E-05	1.91E-04	4.7113E-03
519905.23	4258919.72	21116.96492	0.55669	0.30497	0.60048	0.29867	4.23E-03	2.28E-05	1.09E-05	2.46E-05	1.03E-05	4.2975E-03
519910.19	4258811.13	21106.0122	0.48483	0.43419	0.52373	0.41766	4.23E-03	1.99E-05	1.55E-05	2.14E-05	1.43E-05	4.2979E-03
520638.09	4258481.82	21090.89776	0.13835	0.14258	0.13364	0.14919	4.22E-03	5.66E-06	5.10E-06	5.47E-06	5.12E-06	4.2451E-03
520677.72	4258701.39	21074.3778	0.13113	0.11497	0.12687	0.1187	4.22E-03	5.37E-06	4.11E-06	5.19E-06	4.08E-06	4.2392E-03
520158.84	4258162.57	21071.20597	0.17393	3.62043	0.1745	4.11545	4.22E-03	7.12E-06	1.29E-04	7.14E-06	1.41E-04	4.5048E-03
520095.33	4259230.66	21057.33166	11.72894	0.18105	11.2421	0.17142	4.22E-03	4.80E-04	6.48E-06	4.60E-04	5.89E-06	5.1699E-03
520129.35	4258202.47	21054.06771	0.18628	6.16192	0.18848	7.19834	4.22E-03	7.63E-06	2.20E-04	7.72E-06	2.47E-04	4.6992E-03
520657.61	4258300.24	21052.4063	0.12295	0.14289	0.12131	0.14929	4.22E-03	5.03E-06	5.11E-06	4.97E-06	5.13E-06	4.2363E-03
520612.53	4258962.89	21047.85431	0.1744	0.09802	0.16888	0.10196	4.22E-03	7.14E-06	3.51E-06	6.91E-06	3.50E-06	4.2362E-03
519940.87	4258692.19	21026.70548	0.48269	0.73699	0.53331	0.69943	4.21E-03	1.98E-05	2.64E-05	2.18E-05	2.40E-05	4.3029E-03
520624.84	4258937.78	21023.17104	0.1667	0.09861	0.16169	0.10248	4.21E-03	6.83E-06	3.53E-06	6.62E-06	3.52E-06	4.2307E-03
519907.23	4258828.09	21005.69672	0.48758	0.4077	0.52597	0.39282	4.21E-03	2.00E-05	1.46E-05	2.15E-05	1.35E-05	4.2762E-03
520678.62	4258771.08	21000.63915	0.13386	0.10734	0.12964	0.11091	4.21E-03	5.48E-06	3.84E-06	5.31E-06	3.81E-06	4.2241E-03
520670.88	4258813.49	20983.85832	0.13909	0.10465	0.13492	0.1079	4.20E-03	5.69E-06	3.74E-06	5.52E-06	3.70E-06	4.2210E-03
519931.79	4258718.53	20969.0141	0.47566	0.64186	0.52312	0.61159	4.20E-03	1.95E-05	2.30E-05	2.14E-05	2.10E-05	4.2842E-03
519923.53	4258746.84	20968.54431	0.47286	0.56176	0.51725	0.53714	4.20E-03	1.94E-05	2.01E-05	2.12E-05	1.84E-05	4.2783E-03
520109.68	4258232.41	20963.87994	0.19654	10.27337	0.20136	11.9517	4.20E-03	8.05E-06	3.67E-04	8.24E-06	4.10E-04	4.9924E-03
520656.94	4258350.21	20938.84714	0.12605	0.14094	0.12322	0.14726	4.19E-03	5.16E-06	5.04E-06	5.05E-06	5.06E-06	4.2136E-03
520653.31	4258392.43	20901.49855	0.1294	0.14064	0.12604	0.14682	4.19E-03	5.30E-06	5.03E-06	5.16E-06	5.04E-06	4.2063E-03
520641.26	4258464.26	20897.25349	0.13659	0.12407	0.13228	0.14871	4.18E-03	5.59E-06	5.08E-06	5.42E-06	5.11E-06	4.2062E-03
520009.56	4258540.87	20866.49543	0.55231	2.45583	0.63502	2.13794	4.18E-03	2.26E-05	8.78E-05	2.60E-05	7.34E-05	4.3887E-03
520674.48	4258804.9	20852.55573	0.13716	0.10488	0.13302	0.1081	4.18E-03	5.62E-06	3.75E-06	5.45E-06	3.71E-06	4.1945E-03
520655.45	4258204.44	20845.08248	0.11737	0.14816	0.11585	0.15381	4.17E-03	4.81E-06	5.30E-06	4.74E-06	5.28E-06	4.1946E-03
519947.12	4258673.87	20842.58495	0.48421	0.81349	0.53777	0.76919	4.17E-03	1.98E-05	2.91E-05	2.20E-05	2.64E-05	4.2714E-03
520149.02	4258172.53	20837.37993	0.17607	4.23751	0.17685	4.85736	4.17E-03	7.21E-06	1.52E-04	7.24E-06	1.67E-04	4.5057E-03
520656.81	4258215.03	20811.30406	0.11767	0.14736	0.11615	0.15283	4.17E-03	4.82E-06	5.27E-06	4.76E-06	5.25E-06	4.1878E-03
519904.17	4258844.83	20808.95654	0.48874	0.38316	0.52614	0.36998	4.17E-03	2.00E-05	1.37E-05	2.15E-05	1.27E-05	4.2352E-03
520063.96	4258323.03	20793.6551	0.23693	18.78887	0.25158	9.82144	4.16E-03	9.70E-06	6.72E-04	1.03E-05	3.37E-04	5.1934E-03
520045.36	4259199.92	20784.36055	5.85024	0.18034	8.03087	0.17558	4.16E-03	2.40E-04	6.45E-06	3.29E-04	6.03E-06	4.7432E-03
520029.32	4258482.6	20768.00252	0.45428	4.11072	0.49767	3.37868	4.16E-03	1.86E-05	1.47E-04	2.04E-05	1.16E-04	4.4611E-03
520622.67	4258948.69	20754.61656	0.16807	0.0977	0.16292	0.10157	4.16E-03	6.88E-06	3.49E-06	6.67E-06	3.49E-06	4.1769E-03
520682.94	4258736.81	20750.97498	0.13067	0.10973	0.12665	0.11354	4.16E-03	5.35E-06	3.92E-06	5.19E-06	3.90E-06	4.1740E-03
520658.26	4258225.67	20745.5361	0.11795	0.14641	0.11648	0.15178	4.15E-03	4.83E-06	5.24E-06	4.77E-06	5.21E-06	4.1746E-03
519901.5	4258886.61	20743.64558	0.51165	0.33448	0.55083	0.32515	4.15E-03	2.09E-05	1.20E-05	2.26E-05	1.12E-05	4.2208E-03
520198.15	4258112.69	20710.70292	0.16013	2.17684	0.16104	2.41905	4.15E-03	6.56E-06	7.79E-05	6.59E-06	8.30E-05	4.3217E-03
520682.24	4258762.43	20699.24892	0.13201	0.10727	0.12789	0.11091	4.15E-03	5.41E-06	3.84E-06	5.24E-06	3.81E-06	4.1636E-03
520656.79	4258375.69	20698.62791	0.12743	0.13995	0.12422	0.14606	4.15E-03	5.22E-06	5.01E-06	5.09E-06	5.01E-06	4.1655E-03
519999.65	4258560.31	20695.50058	0.55058	1.98023	0.63651	1.76235	4.14E-03	2.25E-05	7.08E-05	2.61E-05	6.05E-05	4.3245E-03
519901.45	4258910.62	20682.46033	0.5299	0.31075	0.57056	0.30357	4.14E-03	2.17E-05	1.11E-05	2.34E-05	1.04E-05	4.2085E-03
520638.35	4258915.13	20677.68898	0.15866	0.09872	0.15407	0.10242	4.14E-03	6.50E-06	3.53E-06	6.31E-06	3.52E-06	4.1608E-03
520085.43	4259230.68	20675.7744	15.79691	0.17873	17.66177	0.17018	4.14E-03	6.47E-04	6.39E-06	7.23E-04	5.84E-06	5.5228E-03
519889.73	4258579.74	20674.37442	0.54068	1.62784	0.62715	1.47508	4.14E-03	2.21E-05	5.82E-05	2.57E-05	5.06E-05	4.2970E-03
520188.33	4258122.66	20672.90001	0.16231	2.43701	0.16282	2.72582	4.14E-03	6.65E-06	8.72E-05	6.67E-06	9.36E-05	4.3341E-03
520641.92	4258906.59	20672.10396	0.15656	0.09908	0.15206	0.10273	4.14E-03	6.41E-06	3.54E-06	6.23E-06	3.53E-06	4.1596E-03
520674.08	4258796.31	20667.84733	0.13523	0.10488	0.13112	0.10822	4.14E-03	5.54E-06	3.75E-06	5.37E-06	3.72E-06	4.1574E-03
520055.28	4259209.9	20666.86716	8.32508	0.17911	14.36016	0.17351	4.14E-03	3.41E-04	6.41E-06	5.88E-04	5.96E-06	5.0800E-03
519979.81	4258599.18	20656.42493	0.52484	1.35722	0.60391	1.2525	4.14E-03	2.15E-05	4.85E-05	2.47E-05	4.30E-05	4.2745E-03
520645.5	4258898.06	20656.14146	0.15446	0.09944	0.15005	0.10304	4.14E-03	6.32E-06	3.56E-06	6.14E-06	3.54E-06	4.1562E-03
520660.97	4258309.06	20648.18784	0.12254	0.14075	0.1206	0.14717	4.14E-03	5.02E-06	5.03E-06	4.94E-06	5.05E-06	4.1551E-03
520649.07	4258889.52	20635.82308	0.15239	0.09981	0.14806	0.10336	4.13E-03	6.24E-06	3.57E-06	6.06E-06	3.55E-06	4.1520E-03
520047.74	4258369.68	20632.10161	0.26897	7.54648	0.28579	5.67799	4.13E-03	1.10E-05	2.70E-04	1.17E-05	1.95E-04	4.6194E-03
520119.53	4258212.44	20618.41027	0.18804	7.77724	0.19126	9.13248	4.13E-03	7.70E-06	2.78E-04	7.83E-06	3.14E-04	4.7364E-03
520652.65	4258880.99	20607.97794	0.15031	0.10018	0.14607	0.10368	4.13E-03	6.15E-06	3.58E-06	5.98E-06	3.56E-06	4.1463E-03
520661.58	4258284.79	20584.51992	0.12084	0.14186	0.11942	0.14794	4.12E-03	4.95E-06	5.07E-06	4.89E-06	5.08E-06	4.1423E-03
520158.51	4258132.63	20567.69602	0.16438	2.75241	0.16468	3.09419	4.12E-03	6.73E-06	9.84E-05	6.74E-06	1.06E-04	4.3371E-03
520656.22	4258872.46	20566.31483	0.14828	0.10047	0.14407	0.10394	4.12E-03	6.07E-06	3.59E-06	5.90E-06	3.57E-06	4.1378E-03
520054.26	4258347.01	20563.43368	0.25083	10.03674	0.26679	6.94661	4.12E-03	1.03E-05	3.59E-04	1.09E-05	2.38E-04	4.7368E-03
519911.14	4258788.3	20557.36981	0.46546	0.64681	0.50223	0.44693	4.12E-03	1.91E-05	1.66E-05	2.06E-05	1.53E-05	4.1885E-03
520060.79	4258236.77	20553.36257	0.11801	0.14477	0.11659	0.15013	4.12E-03	4.83E-06	5.18E-06	4.77E-06	5.15E-06	4.1360E-03
520139.2	4258182.5	20542.31207	0.17807	5.05349	0.17933	5.83902	4.11E-03	7.29E-06	1.81E-04	7.34E-06	2.00E-04	4.5097E-03
519901.03	4258861.38	20528.6378	0.48836	0.36049	0.52475	0.34896	4.11E-03	2.00E-05	1.29E-05	2.15E-05	1.20E-05	4.1775E-03
519969.89	4258618.62	20527.1137	0.5065	1.15231	0.57411	1.0773	4.11E-03	2.07E-05	4.12E-05	2.35E-05	3.70E-05	4.2333E-03
520659.79	4258863.92	20521.40625	0.14625	0.10076	0.14209	0.10419	4.11E-03	5.99E-06	3.60E-06	5.82E-06	3.58E-06	4.1287E-03
520032.97	4258449.47	20520.88354	0.37658	4.61742	0.40539	3.75703	4.11E-03	1.54E-05	1.65E-04	1.66E-05	1.29E-04	4.4357E-03
519901.96	4258935.97	20515.18549	0.55024	0.2883	0.59299	0.28306	4.11E-03	2.25E-05	1.03E-05	2.43E-05	9.72E-06	4.1753E-03
520681.28	4258692.9	20497.21156	0.1294	0.1147	0.1251	0.11832	4.10E-03	5.30E-06	4.10E-06	5.12E-06	4.06E-06	4.1234E-03
520095.34	4259240.66	20471.17866	11.68977	0.17698	11.17173	0.16766	4.10E-03	4.79E-04	6.33E-06	4.57E-04	5.76E-06	5.0478E-03
520663.37	4258855.39	20466.87288	0.14423	0.10117	0.14016	0.10463	4.10E-03	5.91E-06	3.62E-06	5.74E-06	3.59E-06	4.1176E-03
519957.12	4258646.05	20452.06007	0.48759	0.95035	0.54413	0.89559	4.10E-03	2.00E-05	3.40E-05	2.23E-05	3.07E-05	4.2028E-03
520662.19	4258247.38	20451.52988	0.11831	0.14362	0.11697	0.14906	4.10E-03	4.84E-06	5.14E-06	4.79E-06	5.12E-06	4.1156E-03
520681.67	4258787.72	20445.50447	0.13334	0.10488	0.12925	0.10828	4.09E-03	5.46E-06	3.75E-06	5.29E-06	3.72E-06	4.1127E-03
520660.35	4258359.17	20434.42235	0.12545	0.13905	0.12243	0.14516	4.09E-03	5.14E-06	4.97

520664.31	4258208.23	19999.23357	0.11534	0.14378	0.11374	0.14911	4.01E-03	4.72E-06	5.14E-06	4.66E-06	5.12E-06	4.0248E-03
520681.23	4258812.71	19969.67304	0.13453	0.1024	0.13058	0.10549	4.00E-03	5.51E-06	3.66E-06	5.35E-06	3.62E-06	4.0173E-03
520054.84	4258336.79	19963.55788	0.24036	10.30052	0.25539	7.09594	4.00E-03	9.84E-06	3.68E-04	1.05E-05	2.44E-04	4.6303E-03
520665.72	4258218.85	19938.13237	0.11563	0.1429	0.11405	0.14813	3.99E-03	4.73E-06	5.11E-06	4.67E-06	5.09E-06	4.0125E-03
520663.76	4258368.13	19929.14063	0.12484	0.13717	0.12166	0.1431	3.99E-03	5.11E-06	4.91E-06	4.98E-06	4.91E-06	4.0110E-03
520684.84	4258684.41	19907.5946	0.1277	0.11448	0.12338	0.11801	3.99E-03	5.23E-06	4.09E-06	5.05E-06	4.05E-06	4.0052E-03
520095.36	4259250.66	19905.24901	11.69115	0.17304	11.0871	0.16403	3.99E-03	4.79E-04	6.19E-06	4.54E-04	5.63E-06	4.9308E-03
520688.87	4258770.54	19893.29917	0.12963	0.1048	0.12567	0.10825	3.98E-03	5.31E-06	3.75E-06	5.15E-06	3.72E-06	4.0018E-03
520687.77	4258701.33	19892.43439	0.12729	0.11218	0.12329	0.1157	3.98E-03	5.21E-06	4.01E-06	5.05E-06	3.97E-06	4.0020E-03
519947.12	4258664.6	19862.53455	0.46604	0.83188	0.51656	0.78703	3.98E-03	1.91E-05	2.98E-05	2.12E-05	2.70E-05	4.0747E-03
520667.24	4258229.51	19859.70174	0.11593	0.14183	0.11439	0.14707	3.98E-03	4.75E-06	5.07E-06	4.68E-06	5.05E-06	3.9967E-03
520188.36	4258112.66	19854.56096	0.15745	2.43901	0.15771	2.72446	3.98E-03	6.45E-06	8.72E-05	6.46E-06	9.35E-05	4.1698E-03
519897.34	4258852.47	19849.95687	0.4632	0.36565	0.49644	0.33352	3.98E-03	1.90E-05	1.31E-05	2.03E-05	1.21E-05	4.0397E-03
520690.24	4258719.38	19839.74301	0.12712	0.10958	0.12327	0.1132	3.97E-03	5.20E-06	3.92E-06	5.05E-06	3.89E-06	3.9912E-03
520629.9	4258955.7	19822.08149	0.16379	0.09537	0.15868	0.09911	3.97E-03	6.71E-06	3.41E-06	6.50E-06	3.40E-06	3.9897E-03
520668.53	4258301.05	19804.98978	0.12007	0.13738	0.11808	0.14362	3.97E-03	4.92E-06	4.91E-06	4.83E-06	4.93E-06	3.9858E-03
520684.81	4258804.18	19796.43829	0.13266	0.1025	0.12873	0.1056	3.96E-03	5.43E-06	3.67E-06	5.27E-06	3.63E-06	3.9825E-03
520668.77	4258277.8	19796.2655	0.11849	0.13874	0.11699	0.14463	3.96E-03	4.85E-06	4.96E-06	4.79E-06	4.97E-06	3.9840E-03
520119.56	4258202.44	19792.77796	0.18156	7.79141	0.18451	9.1313	3.96E-03	7.43E-06	2.79E-04	7.55E-06	3.13E-04	4.5709E-03
520178.54	4258122.63	19770.45398	0.15945	2.75337	0.15947	3.09617	3.96E-03	6.53E-06	9.85E-05	6.53E-06	1.06E-04	4.1771E-03
520645.39	4258922.27	19752.40743	0.15491	0.09637	0.15038	0.09995	3.96E-03	6.34E-06	3.45E-06	6.16E-06	3.43E-06	3.9751E-03
520648.94	4258913.78	19746.26371	0.15291	0.09672	0.14849	0.10026	3.95E-03	6.26E-06	3.46E-06	6.08E-06	3.44E-06	3.9737E-03
519804.48	4258917.91	19738.25108	0.50055	0.29893	0.53727	0.2921	3.95E-03	2.05E-05	1.07E-05	2.20E-05	1.00E-05	4.0161E-03
520652.49	4258905.3	19732.55642	0.15093	0.09708	0.14661	0.10057	3.95E-03	6.18E-06	3.47E-06	6.00E-06	3.45E-06	3.9708E-03
520139.23	4258172.5	19732.20315	0.17226	5.05745	0.1733	5.84905	3.95E-03	7.05E-06	1.81E-04	7.10E-06	2.01E-04	4.3475E-03
520045.81	4259219.92	19730.08532	5.98326	0.17245	8.27515	0.16793	3.95E-03	2.45E-04	6.17E-06	3.39E-04	5.77E-06	4.5470E-03
520036.34	4258404.35	19727.09991	0.29839	5.13151	0.31683	4.15242	3.95E-03	1.22E-05	1.84E-04	1.30E-05	1.43E-04	4.3019E-03
520656.04	4258896.82	19713.73734	0.14895	0.09744	0.14472	0.10088	3.95E-03	6.10E-06	3.49E-06	5.93E-06	3.46E-06	3.9669E-03
520648.13	4258482.3	19711.298	0.13454	0.13846	0.12989	0.14472	3.95E-03	5.51E-06	4.95E-06	5.32E-06	4.97E-06	3.9682E-03
519893.91	4258892.43	19695.57417	0.47962	0.32181	0.5143	0.31289	3.94E-03	1.96E-05	1.15E-05	2.11E-05	1.07E-05	4.0073E-03
520659.59	4258888.33	19689.24808	0.14699	0.0978	0.14285	0.10119	3.94E-03	6.02E-06	3.50E-06	5.85E-06	3.47E-06	3.9619E-03
520669.52	4258240.5	19683.25469	0.11605	0.14026	0.11455	0.14559	3.94E-03	4.75E-06	5.02E-06	4.69E-06	5.00E-06	3.9613E-03
520684.89	4258674.93	19668.31814	0.12727	0.11517	0.1228	0.11872	3.94E-03	5.21E-06	4.12E-06	5.03E-06	4.08E-06	3.9573E-03
520667.37	4258351.74	19666.19584	0.12293	0.13621	0.11993	0.14216	3.94E-03	5.03E-06	4.87E-06	4.91E-06	4.88E-06	3.9581E-03
520663.15	4258879.85	19659.28056	0.14502	0.09816	0.14099	0.1015	3.94E-03	5.94E-06	3.51E-06	5.77E-06	3.48E-06	3.9557E-03
520660.26	4258410.69	19636.75726	0.12787	0.13671	0.12435	0.14269	3.93E-03	5.24E-06	4.89E-06	5.09E-06	4.90E-06	3.9526E-03
520693.1	4258736.48	19632.33065	0.1267	0.10724	0.12299	0.11084	3.93E-03	5.19E-06	3.84E-06	5.04E-06	3.81E-06	3.9405E-03
520168.72	4258132.6	19625.39065	0.16133	3.1407	0.16133	3.55034	3.93E-03	6.61E-06	1.12E-04	6.61E-06	1.22E-04	4.1777E-03
520692.46	4258761.95	19623.05703	0.12792	0.10477	0.12407	0.10827	3.93E-03	5.24E-06	3.75E-06	5.08E-06	3.72E-06	3.9476E-03
520666.7	4258871.37	19612.97495	0.14311	0.0984	0.13909	0.10171	3.93E-03	5.86E-06	3.52E-06	5.69E-06	3.49E-06	3.9463E-03
520055.72	4259229.9	19602.9869	8.55555	0.17129	15.13791	0.16599	3.93E-03	3.50E-04	6.13E-06	6.20E-04	5.70E-06	4.9077E-03
519919.76	4258737.74	19592.64565	0.44084	0.56397	0.48107	0.53973	3.92E-03	1.80E-05	2.02E-05	1.97E-05	1.85E-05	4.0001E-03
520688.38	4258795.64	19592.12583	0.13082	0.10252	0.1269	0.10565	3.92E-03	5.36E-06	3.67E-06	5.20E-06	3.63E-06	3.9414E-03
519894.16	4258868.92	19585.11416	0.46259	0.3449	0.4953	0.33414	3.92E-03	1.89E-05	1.23E-05	2.03E-05	1.15E-05	3.9852E-03
520670.25	4258862.89	19565.61031	0.1412	0.09873	0.13724	0.10199	3.92E-03	5.78E-06	3.53E-06	5.62E-06	3.50E-06	3.9367E-03
520663.67	4258393.76	19564.01361	0.12606	0.13604	0.12264	0.14192	3.92E-03	5.16E-06	4.87E-06	5.02E-06	4.87E-06	3.9379E-03
520085.46	4259250.68	19563.18816	15.66186	0.17087	17.2853	0.16287	3.92E-03	6.41E-04	6.11E-06	7.08E-04	5.59E-06	5.2785E-03
520099.89	4258232.38	19556.62523	0.19058	14.7417	0.19647	15.88256	3.92E-03	7.80E-06	5.27E-04	8.04E-06	5.45E-04	5.0049E-03
520670.97	4258251.13	19553.14054	0.11631	0.13909	0.11486	0.14453	3.92E-03	4.76E-06	4.98E-06	4.70E-06	4.96E-06	3.9352E-03
520037.55	4258393.86	19538.64378	0.28501	5.32387	0.30216	4.28954	3.91E-03	1.17E-05	1.90E-04	1.24E-05	1.47E-04	4.2746E-03
520651.36	4258464.93	19528.33809	0.13286	0.13779	0.12857	0.1441	3.91E-03	5.44E-06	4.93E-06	5.26E-06	4.95E-06	3.9314E-03
520673.8	4258854.4	19509.32005	0.13929	0.09907	0.13541	0.10227	3.91E-03	5.70E-06	3.54E-06	5.54E-06	3.51E-06	3.9253E-03
519907.47	4258780.46	19505.3606	0.43782	0.46825	0.47147	0.45066	3.91E-03	1.79E-05	1.67E-05	1.93E-05	1.55E-05	3.9757E-03
520640.15	4258941.45	19496.06371	0.15792	0.09506	0.15313	0.0987	3.90E-03	6.47E-06	3.40E-06	6.27E-06	3.39E-06	3.9239E-03
520033.64	4258415.45	19491.94429	0.31093	0.47434	0.33078	1.87537	3.90E-03	1.27E-05	1.70E-04	1.35E-05	1.33E-04	4.2325E-03
519928.13	4258709.69	19453.45345	0.44275	0.64164	0.48445	0.61235	3.90E-03	1.81E-05	2.30E-05	1.98E-05	2.10E-05	3.9778E-03
520677.35	4258845.92	19441.29684	0.13742	0.09936	0.13358	0.10249	3.89E-03	5.63E-06	3.55E-06	5.47E-06	3.52E-06	3.9116E-03
520158.9	4258142.57	19433.11661	0.16316	3.62597	0.1633	4.11823	3.89E-03	6.68E-06	1.30E-04	6.69E-06	1.41E-04	4.1762E-03
520672.21	4258286.85	19430.20256	0.11812	0.13654	0.1164	0.14255	3.89E-03	4.84E-06	4.88E-06	4.77E-06	4.89E-06	3.9105E-03
520684.94	4258665.44	19424.75725	0.12689	0.11597	0.12232	0.11957	3.89E-03	5.20E-06	4.15E-06	5.01E-06	4.10E-06	3.9085E-03
520658.19	4258431.12	19419.22395	0.12936	0.13651	0.12564	0.14263	3.89E-03	5.30E-06	4.88E-06	5.14E-06	4.90E-06	3.9092E-03
520667.17	4258377.09	19411.3212	0.1242	0.13531	0.1209	0.1411	3.89E-03	5.09E-06	4.84E-06	4.95E-06	4.84E-06	3.9071E-03
520129.41	4258182.47	19395.00844	0.17393	6.18218	0.17573	7.19121	3.88E-03	7.12E-06	2.21E-04	7.20E-06	2.47E-04	4.3664E-03
520064.4	4258302.8	19394.15944	0.21821	19.6311	0.23109	10.05715	3.88E-03	8.93E-06	7.02E-04	9.46E-06	3.45E-04	4.9498E-03
520672	4258312.17	19392.08647	0.11961	0.13532	0.11731	0.1415	3.88E-03	4.90E-06	4.84E-06	4.80E-06	4.86E-06	3.9029E-03
520691.95	4258787.11	19390.06791	0.12906	0.10254	0.12519	0.10572	3.88E-03	5.28E-06	3.67E-06	5.13E-06	3.63E-06	3.9008E-03
520055.34	4258326.6	19367.21491	0.23057	10.52954	0.24474	7.22773	3.88E-03	9.44E-06	3.77E-04	1.00E-05	2.48E-04	4.5228E-03
520671.05	4258335.53	19361.86318	0.12102	0.13516	0.11827	0.14115	3.88E-03	4.96E-06	4.83E-06	4.84E-06	4.85E-06	3.8970E-03
520680.9	4258837.44	19359.72192	0.13557	0.09961	0.13176	0.10268	3.88E-03	5.55E-06	3.56E-06	5.39E-06	3.53E-06	3.8951E-03
520095.38	4259260.66	19358.52312	11.70573	0.16925	10.89748	0.16052	3.88E-03	4.79E-04	6.05E-06	4.50E-04	5.51E-06	4.8179E-03
520691.3	4258692.9	19354.67302	0.12565	0.11199	0.12163	0.1154	3.88E-03	5.14E-06	4.01E-06	4.98E-06	3.96E-06	3.8941E-03
520693.89	4258710.67	19351.05602	0.1254	0.10958	0.12162	0.11305	3.88E-03	5.13E-06	3.92E-06	4.98E-06	3.88E-06	3.8932E-03
520109.74	4258212.41	19336.88921	0.18292	10.31592	0.18703	12.0048	3.87E-03	7.49E-06	3.69E-04	7.66E-06	4.12E-04	4.6687E-03
520009.52	4258531.17	19329.75075	0.51618	2.49318	0.58698	2.17029	3.87E-03	2.11E-05	8.92E-05	2.40E-05	7.45E-05	4.0799E-03
519957.12	4258636.77	19323.0011	0.46813	0.96858	0.52212	0.91391	3.87E-03	1.92E-05	3.46E-05	2.14E-05	3.14E-05	3.9763E-03
520696.06	4258753.36	19322.50101	0.12624	0.10479	0.12253	0.10831	3.87E-03	5.17E-06	3.75E-06	5.02E-06	3.72E-06	3.8872E-03
519890.73	4258008.88	19293.22798	0.47707	0.30406	0.51097	0.29643	3.86E-03	1.95E-05	1.09E-05	2.09E-05	1.02E-05	3.9252E-03
520684.46	4258828.95	19261.73554	0.13373	0.09984	0.12994	0.10285	3.86E-03	5.48E-06	3.57E-06	5.32E-06	3.53E-06	3.8753E-03
519937.12	4258683.15	19248.48916	0.44561	0.73301	0.49006	0.69676	3.85E-03	1.82E-05	2.62E-05	2.01E-05	2.39E-05	3.9432E-03
519910.42	4258763.46	19246.14786	0.43124	0.49829	0.46591	0.47901	3.85E-03	1.77E-05	1.78E-05	1.91E-05	1.64E-05	3.9253E-03
519899.71	4258809.97	19244.22131	0.43426	0.41646	0.4656	0.40152	3.85E-03	1.78E-05	1.49E-05	1.91E-05	1.38E-05	3.9194E-03
520038.53	4258383.47	19238.82263	0.27226	5.48569	0.28829	4.40686	3.85E-03	1.11E-05	1.96E-04	1.18E-05	1.51E-04	4.2233E-03
519896.72	4258826.87	19233.91479	0.43731	0.39258	0.46844	0.37879	3.85E-03	1.79E-05	1.40E-05	1.92E-05	1.30E-05	3.9160E-03
520638.58	4258852.11	19229.02908	0.15881	0.09413	0.15389	0.09776	3.85E-03	6.50E-06	3.37E-06	6.30E-06	3.36E-06	3.8704E-03
520045.82	4259229.92	19219.90283	6.01483	0.16865	8.32552	0.16426	3.85E-03	2.46E-04	6.03E-06	3.41E-04	5.64E-06	4.4479E-03
520149.08	4258152.53	19215.42744	0.16497	4.24599	0.1654	4.85748	3.85E-03	6.75E-06	1.52E-04	6.77E-06	1.67E-04	4.1803E-03
520696.73	4258727.83	19212.1974	0.12501	0.10715	0.12138	0.11068	3.85E-03	5.12E-06	3.83E-06	4.97E-06	3.80E-06	3.8652E-03
520670.75	4258360.62	19200.19455	0.12234	0.13442	0.11918	0.14019	3.85E-03	5.01E-06	4.81E-06	4.88E-06	4.81E-06	3.8646E-03
520673.17	4258212.02	19169.57905	0.11336	0.13953	0.1117	0.1446	3.84E-03	4.64E-06	4.99E-06	4.57E-06	4.96E-06	3.8581E-03
519969.85	4258608.92	19151.39117	0.48405	1.1755	0.54914	1.09825	3.84E-03	1.98E-05	4.20E-05	2.22E-05	3.77E-05	3.9574E-03
520685	4258655.96	19145.55574	0.12649	0.11671	0.12184	0.12039	3.83E-03	5.18E-06	4.17E-06	4.99E-06	4.13E-06	3.8526E-03
519890.13	4258883.33	19145.14707	0.45602	0.32685	0.48771	0.31722	3.83E-03	1.87E-05	1.17E-05	2.00E-05	1.09E-05	3.8953E-03
519979.77	4258589.48	19142.73486	0.49963	1.387	0.57406	1.27613	3.83E-03	2.05E-05	4.96E-05	2.35E-05	4.38E-05	3.9710E-03
519902.61	4258792.84	19141.82873	0.42954	0.44217	0.4612	0.42607	3.83E-03	1.76E-05	1.58E-05	1.89E-05	1.46E-05	3.9003E-03
520695.53	4258778.57	19141.16317	0.1273	0.10246	0.1235	0.10572	3.83E-03	5.21E-06	3.66E-06	5.06E-06	3.63E-06	3.8508E-03
520688.01	4258820.47	19134.31536	0.11191	0.1	0.12813	0.10288	3.83E-03	5.40E-06	3.58E-06	5.25E-06	3.54E-06	3.8497E-03
519893.64	4258843.56	19134.30818	0.43909	0.37023	0.46953	0.35773	3.83E-03	1.80E-05	1.32E-05	1.92E-05	1.23E-05	3.8946E-03
519999.61	4258550.61	19101.93836	0.51793	2.01437	0.59321	1.79191	3.83E-03	2.12E-05	7.21E-05	2.43E-05	6.15E-05	4.0045E-03
520055.74	4259239.9	19091.77945	8.60538	0.16754	15.33808	0.1624	3.82E-03	3.52E-04	5.99E-06	6.30E-04	5.58E-06	4.8171E-03
520674.64	4258222.66	19087.97445	0.11364	0.13856	0.11202	0.14362	3.82E-03	4.65E-06	4.96E-06	4.59E-06	4.93E-06	3.8418E-03
519889.69	4258570.05	19084.88471	0.51192	1.65962	0.58831	1.50242	3.82E-03	2.10E-05	5.94E-05	2.41E-05	5.16E-05	3.9780E-03
520675.95	4258270.8	19050.94863	0.11619	0.13568	0.11463	0.1414	3.82E-03	4.76E-06	4.85E-06	4.69E-06	4.85E-06	3.8344E-03
520675.66	4258295.9	19048.73604	0.11771	0.13437	0.11572	0.14043	3.81E-03	4.82E-06	4.81E-06	4.74E-06	4.82E-06	3.8340E-03
520019.4	4258502.04	19045.97721	0.47115	3.18109	0.52164	2.70255	3.81E-03	1.93E-05	1.14E-04	2.14E-05	9.28E-05	4.0614E-03
520085.48	4259260.68	19035.45382	15.64757	0.16714	17.07409	0.15939	3.81E-03	6.41E-04	5.98E-06	6.99E-04	5.47E-06	5.1633E-03
520026.15	4258466.06	19029.41185	0.39509	3.83016	0.42781	3.19431	3.81E-03	1.62E-05	1.37E-04	1.75E-05	1.10E-04	4.0913E-03
520663.74	4258419.81	19012.33298	0.12708	0.13473	0.12347	0.14067	3.81E-03	5.20E-06	4.82E-06	5.06E-06	4.83E-06	3.8274E-03
520119.59	4258192.44	19006.37974	0.17539	7.81034	0.17817	9.08187	3.81E-03	7.18E-06	2.79E-04	7.30E-06	3.12E-04	4.4119E-03
520178.57	4258112.63	19004.65954	0.1547	2.75524	0.15453	3.09456	3.81E-03	6.33E-06	9.86E-05	6.33E-06	1.06E-04	4.0234E-03
520676.22	4258233.35	19001.07453	0.11395	0.13731	0.11234	0.14251	3.81E-03	4.67E-06	4.91E-06	4.60E-06	4.89E-06	3.8243E-03
520691.56	4258811.99	18987.37156	0.13013	0.10014	0.12636	0.1031	3.80E-03	5.33E-06	3.58E-06	5.17E-06	3.54E-06	3.8201E-03
520667.11	4258402.8	18983.26977	0.12532	0.13415	0.12184	0.13994	3.80E-03	5.13E-06	4.80E-06	4.99E-06	4.80E-06	3.8214E-03
520029.38	4258433.94	18978.01154	0.33424	4.21109	0.35718	3.49151	3.80E-03	1.37E-05	1.51E-04	1.46E-05	1.20E-04	4.0994E-03
520699.66	4258744.77	18972.29863	0.12455	0.10481	0.12099	0.10829	3.80E-03	5.10E-06	3.75E-06	4.95E-06	3.72E-06	3.8170E-03
520654.76	4258473.85	18960.98497	0.13187	0.13605	0.12743	0.14219	3.80E-03	5.40E-06	4.87E-06	5.22E-06	4.88E-06	3.8176E-03
520139.26	4258162.5	18960.71709	0.16672	5.06368	0.16762	5.8466	3.80E-03	6.83E-06	1.81E-04	6.86E-06	2.01E-04	4.1927E-03
519890.49	4258860.07	18953.33508	0.43956	0.3495	0.46941	0.33826	3.80E-03	1.80E-05	1.25E-05	1.92E-05	1.16E-05	3.8570E-03
520045.38	4258350.68	18937.74456	0.24313	6.88366	0.25759	5.31291	3.79E-03	9.95E-06	2.46E-04	1.05E-05	1.82E-04	4.2417E-03
520674.4	4258344.35	18935.74323	0.12047	0.13343	0.11752	0.13922	3.79E-03	4.93E-06	4.77E-06	4.81E-06	4.78E-06	3.8114E-03
520652.54	4258929.11	18890.85357	0.15118	0.09415	0.14668	0.09763	3.78E-03	6.19E-06	3.37E-06	6.01E-06	3.35E-06	3.8021E-03
520670.58	4258386.05	18886.16444	0.12353	0.13347	0.12015	0.13914	3.78E-03	5.06E-06	4.77E-06	4.92E-06	4.78E-06	3.8017E-03
520656.2	4258920.38	18882.56718	0.14921	0.09448	0.14483	0.09791	3.78E-03	6.11E-06	3.38E-06	5.93E-06	3.36E-06	3.8003E-03
520699.1	4258770.04	18880.56364	0.12561	0.10238	0.12189	0.10571	3.78E-03	5.14E-06	3.66E-06	4.99E-06	3.63E-06	3.7985E-03
520168.75	4258122.6	18879.40497	0.15652	3.1416	0.15629	3.55243	3.78E-03	6.41E-06	1.12E-04	6.40E-06	1.22E-04	4.0286E-03
519947.12	4258655.32	18873.88321	0.44857	0.84872	0.49621	0.80389	3.78E-03	1.84E-05	3.04E-05	2.03E-05	2.76E-05	3.8764E-03
520659.85	4258911.66	18868.32107	0.14726	0.09483	0.14299	0.09821	3.78E-03	6.03E-06	3.39E-06	5.85E-06	3.37E-06	3.7973E-03
520039.34	4258373.15	18866.58445	0.2603	5.62352	0.27536	4.506	3.78E-03	1.07E-05	2.01E-04	1.13E-05	1.55E-04	4.1561E-03
520663.5	4258902.93	18844.38071	0.14533	0.09518	0.14115	0.09851	3.77E-03	5.95E-06	3.40E-06	5.78E-06	3.38E-06	3.7932E-03
520658.09	4258456.72	18847.87469	0.13022	0.13531	0.1261	0.14147	3.77E-03	5.33E-06	4.84E-06	5.16E-06	4.86E-06	3.7947E-03
520685.05	4258646.48	18847.50972	0.12611	0.11731	0.1214	0.12111	3.77E-03	5.16E-06	4.20E-06	4.97E-06	4.16E-06	3.7930E-03
520697.54	4258701.95	18843.71066	0.12373	0.10948	0.11917	0.11281	3.77E-03	5.07E-06	3.92E-06	4.91E-06	3.87E-06	3.7915E-03
520099.92	4258222.38	18823.11626	0.18393	14.77425	0.18935	16.12868	3.77E-03	7.53E-06	5.28E-04	7.75E-06	5.54E-04	4.8670E-03
520695.11	4258803.51	18822.46452	0.12838	0.10022	0.12463	0.10319	3.77E-03	5.26E-06	3.58E-06	5.10E-06	3.54E-06	3.7869E-03
520687.24	4258244.23	18822.1073	0.11408	0.13592	0.11251	0.14121	3.77E-03	4.67E-06	4.86E-06	4.61E-06	4.85E-06	3.7884E-03
520667.16	4258894.21	18821.67527	0.14339	0.09554	0.13932	0.09882	3.77E-03	5.87E-06	3.42E-06	5.70E-06	3.39E-06	3.7877E-03
519886.99	4258899.85	18814.42376	0.45457	0.30896	0.4857	0.30059	3.77E-03	1.86E-05	1.11E-05	1.99E-05	1.03E-05	3.8277E-03
519913.27	4258746.2	18811.91833	0.42187	0.53069	0.45807	0.50911	3.77E-03	1.73E-05	1.90E-05	1.88E-05	1.75E-05	3.8398E-03
520661.53	4258439.88	18808.76278	0.12853	0.13462	0.12467	0.14069	3.77E-03	5.26E-06	4.82E-06	5.10E-06	4.83E-06	3.7867E-03
520694.84	4258684.46	18803.57535	0.12405	0.11171	0.11999	0.11504	3.77E-03	5.08E-06	4.00E-06	4.91E-06	3.95E-06	3.7836E-03
520670.81	4258885.48	18793.27012	0.14147	0.0959	0.1375	0.09913	3.76E-03	5.79E-06	3.43E-06	5.63E-06	3.40E-06	3.7819E-03
520055.77	4258316.43	18779.4655	0.2214	10.72754	0.2348	7.3244	3.76E-03	9.07E-06	3.84E-04	9.61E-06	2.51E-04	4.4147E-03
520700.35	4258719.18	18772.0444	0.12336	0.10709	0.1198	0.11049	3.76E-03	5.05E-06	3.83E-06	4.91E-06	3.79E-06	3.7769E-03
520674.46	4258876.76	18755.45101	0.13957	0.09623	0.13568	0.09942	3.76E-03	5.71E-06	3.44E-06	5.56E-06	3.41E-06	3.7742E-03
520045.84	4259239.92	18728.14155	0.63691	0.16501	8.30669	0.16073	3.75E-03	2.47E-04	5.90E-06	3.44E-04	5.52E-06	4.3527E-03
520096.39	4259273.23	18727.14007	11.41923	0.16484	10.49985	0.15637	3.75E-03	4.68E-04	5.90E-06	4.30E-04	5.37E-06	4.6591E-03
520674.14	4258369.51	18720.35024	0.12171	0.13267	0.11845	0.13828	3.75E-03	4.98E-06	4.75E-06	4.85E-06	4.75E-06	3.7683E-03
520678.12	4258868.03	18707.94563	0.1377	0.09649	0.13385	0.09963	3.75E-03	5.64E-06	3.45E-06	5.48E-06	3.42E-06	3.7645E-03
520158.93	4258132.57	18701.84298	0.15823	3.62666	0.15817	4.12419	3.75E-03	6.48E-06	1.30E-04

520703.97	4258710.53	18312.5041	0.12175	0.10699	0.11822	0.11027	3.67E-03	4.98E-06	3.83E-06	4.84E-06	3.79E-06	3.6848E-03
520696.38	4258824.41	18308.82451	0.12857	0.0978	0.12494	0.10064	3.67E-03	5.26E-06	3.50E-06	5.12E-06	3.46E-06	3.6839E-03
519883.24	4258890.82	18300.221	0.43293	0.31353	0.46139	0.30452	3.66E-03	1.77E-05	1.12E-05	1.89E-05	1.05E-05	3.7232E-03
519886.82	4258851.23	18291.13112	0.43751	0.35359	0.44481	0.34206	3.66E-03	1.71E-05	1.26E-05	1.82E-05	1.17E-05	3.7227E-03
520661.45	4258465.56	18290.79808	0.1293	0.13356	0.12502	0.1396	3.66E-03	5.29E-06	4.78E-06	5.12E-06	4.79E-06	3.6830E-03
520119.62	4258182.44	18287.18717	0.16965	7.82114	0.1722	9.09417	3.66E-03	6.95E-06	2.80E-04	7.05E-06	3.12E-04	4.2682E-03
520682.55	4258314.01	18274.5752	0.11676	0.13065	0.11424	0.13654	3.66E-03	4.78E-06	4.67E-06	4.68E-06	4.69E-06	3.6786E-03
520683.55	4258226.48	18268.65798	0.1117	0.13433	0.11004	0.13929	3.66E-03	4.57E-06	4.80E-06	4.51E-06	4.78E-06	3.6772E-03
520045.86	4259249.92	18251.50847	6.08114	0.16145	8.46322	0.1573	3.66E-03	2.49E-04	5.77E-06	3.47E-04	5.40E-06	4.2618E-03
519915.99	4258728.64	18247.41579	0.41155	0.55481	0.44756	0.54114	3.66E-03	1.69E-05	2.02E-05	1.83E-05	1.86E-05	3.7282E-03
520139.29	4258152.5	18239.59569	0.1615	5.06849	0.16225	5.84583	3.65E-03	6.61E-06	1.81E-04	6.64E-06	2.01E-04	4.0480E-03
520677.52	4258378.4	18236.01905	0.12107	0.13093	0.11773	0.13641	3.65E-03	4.96E-06	4.68E-06	4.82E-06	4.68E-06	3.6712E-03
520096.4	4259283.23	18232.80974	11.41462	0.16135	10.41881	0.15315	3.65E-03	4.67E-04	5.77E-06	4.27E-04	5.26E-06	4.5563E-03
520685.16	4258627.52	18213.75445	0.1254	0.11831	0.12065	0.1224	3.65E-03	5.13E-06	4.23E-06	4.94E-06	4.20E-06	3.6661E-03
520705.77	4258778.06	18208.05134	0.12338	0.10016	0.1198	0.10331	3.65E-03	5.05E-06	3.58E-06	4.91E-06	3.55E-06	3.6635E-03
520706.85	4258727.59	18201.63895	0.12132	0.10466	0.11795	0.108	3.65E-03	4.97E-06	3.74E-06	4.83E-06	3.71E-06	3.6624E-03
520056.16	4258306.28	18200.55583	0.21281	10.90763	0.22553	7.40153	3.64E-03	8.71E-06	3.90E-04	9.23E-06	2.54E-04	4.3071E-03
520700.04	4258815.68	18171.6703	0.12682	0.09794	0.12321	0.10077	3.64E-03	5.19E-06	3.50E-06	5.04E-06	3.46E-06	3.6563E-03
520168.78	4258112.6	18161.39777	0.15187	3.14367	0.15152	3.54925	3.64E-03	6.22E-06	1.12E-04	6.20E-06	1.22E-04	3.8838E-03
519881.35	4258911.69	18152.42536	0.43945	0.29428	0.46835	0.28672	3.64E-03	1.80E-05	1.05E-05	1.92E-05	9.84E-06	3.6928E-03
520685.19	4258237.2	18149.70995	0.11195	0.13305	0.1103	0.13817	3.63E-03	4.58E-06	4.76E-06	4.52E-06	4.74E-06	3.6533E-03
519898.82	4258783.7	18131.34036	0.40417	0.44486	0.43294	0.42922	3.63E-03	1.65E-05	1.59E-05	1.77E-05	1.47E-05	3.6960E-03
520682.43	4258339.55	18126.63381	0.11794	0.13023	0.11497	0.13581	3.63E-03	4.83E-06	4.66E-06	4.71E-06	4.66E-06	3.6490E-03
520055.77	4259259.9	18121.59877	8.72331	0.16041	15.97142	0.15557	3.63E-03	3.57E-04	5.74E-06	6.54E-04	5.34E-06	4.6513E-03
520099.95	4258212.38	18119.40482	0.17763	14.81669	0.18269	16.12089	3.63E-03	7.27E-06	5.30E-04	7.48E-06	5.53E-04	4.7268E-03
520009.48	4258521.48	18100.38872	0.48322	2.52748	0.54365	2.19921	3.62E-03	1.98E-05	9.04E-05	2.23E-05	7.55E-05	3.8328E-03
520659.58	4258936.25	18083.01001	0.14759	0.09199	0.14308	0.09536	3.62E-03	6.04E-06	3.29E-06	5.86E-06	3.27E-06	3.6398E-03
519906.72	4258754.54	18080.76413	0.40429	0.50035	0.43639	0.4813	3.62E-03	1.66E-05	1.79E-05	1.79E-05	1.65E-05	3.6898E-03
520663.21	4258927.58	18074.34596	0.14573	0.09228	0.14133	0.0956	3.62E-03	5.97E-06	3.30E-06	5.79E-06	3.28E-06	3.6380E-03
520681.12	4258361.99	18067.89636	0.11932	0.13005	0.11608	0.1355	3.62E-03	4.89E-06	4.65E-06	4.75E-06	4.65E-06	3.6373E-03
520695	4258656.02	18065.29259	0.12296	0.11368	0.11855	0.1172	3.62E-03	5.03E-06	4.07E-06	4.85E-06	4.02E-06	3.6358E-03
520666.84	4258818.91	18060.15705	0.14388	0.0926	0.13959	0.09588	3.62E-03	5.89E-06	3.31E-06	5.72E-06	3.29E-06	3.6350E-03
520670.47	4258910.24	18040.97771	0.14204	0.09294	0.13786	0.09617	3.61E-03	5.82E-06	3.32E-06	5.64E-06	3.30E-06	3.6310E-03
520674.1	4258901.58	18016.93882	0.1402	0.0933	0.13614	0.09648	3.61E-03	5.74E-06	3.34E-06	5.57E-06	3.31E-06	3.6261E-03
520046.71	4258330.16	18013.50923	0.2241	7.2038	0.23726	5.52231	3.61E-03	9.18E-06	2.58E-04	9.71E-06	1.90E-04	4.0736E-03
520158.96	4258122.57	18001.69824	0.15351	3.62826	0.1533	4.12425	3.61E-03	6.29E-06	1.30E-04	6.28E-06	1.42E-04	3.8890E-03
520703.69	4258806.96	18001.19786	0.12508	0.098	0.12149	0.10084	3.60E-03	5.12E-06	3.51E-06	4.97E-06	3.46E-06	3.6220E-03
520709.82	4258744.43	17996.93449	0.12083	0.10239	0.11751	0.10571	3.60E-03	4.95E-06	3.66E-06	4.81E-06	3.63E-06	3.6212E-03
520686.54	4258272.74	17990.54502	0.11354	0.13084	0.11181	0.13643	3.60E-03	4.65E-06	4.68E-06	4.58E-06	4.68E-06	3.6214E-03
520677.73	4258892.91	17988.48878	0.13838	0.09362	0.13441	0.09676	3.60E-03	5.67E-06	3.35E-06	5.50E-06	3.32E-06	3.6203E-03
519924.46	4258700.84	17976.87101	0.41223	0.6395	0.44876	0.61134	3.60E-03	1.69E-05	2.29E-05	1.84E-05	2.10E-05	3.6792E-03
520686.22	4258297.76	17969.87416	0.11497	0.12959	0.11274	0.13543	3.60E-03	4.71E-06	4.64E-06	4.62E-06	4.65E-06	3.6173E-03
520709.32	4258769.57	17957.17477	0.12179	0.10008	0.11831	0.10328	3.60E-03	4.99E-06	3.58E-06	4.84E-06	3.55E-06	3.6131E-03
520681.36	4258884.24	17955.36247	0.13657	0.09397	0.1327	0.09706	3.60E-03	5.59E-06	3.36E-06	5.43E-06	3.33E-06	3.6135E-03
520086.5	4259283.24	17953.57969	15.16056	0.15944	15.78644	0.15213	3.60E-03	6.21E-04	5.70E-06	6.46E-04	5.22E-06	4.8735E-03
520129.47	4258162.47	17948.73231	0.16296	6.19612	0.16441	7.19761	3.59E-03	6.67E-06	2.22E-04	6.73E-06	2.47E-04	4.0766E-03
519882.59	4258865.13	17944.82181	0.41184	0.33565	0.43813	0.32509	3.59E-03	1.69E-05	1.20E-05	1.79E-05	1.12E-05	3.6515E-03
520063.64	4258283.22	17942.73312	0.20113	17.72943	0.2125	9.76668	3.59E-03	8.24E-06	6.34E-04	8.70E-06	3.35E-04	4.5797E-03
520684.98	4258875.57	17918.26517	0.13477	0.09431	0.131	0.09735	3.59E-03	5.52E-06	3.37E-06	5.36E-06	3.34E-06	3.6060E-03
519947.12	4258646.05	17890.38505	0.432	0.86409	0.4772	0.81973	3.58E-03	1.77E-05	3.09E-05	1.95E-05	2.81E-05	3.6791E-03
520685.21	4258618.03	17890.24322	0.12505	0.11883	0.12035	0.12304	3.58E-03	5.12E-06	4.25E-06	4.93E-06	4.22E-06	3.6013E-03
520109.8	4258192.41	17877.88222	0.17076	10.36886	0.17441	11.80161	3.58E-03	6.99E-06	3.71E-04	7.14E-06	4.05E-04	4.3705E-03
520688.61	4258866.9	17871.31867	0.13299	0.09461	0.12929	0.0976	3.58E-03	5.45E-06	3.38E-06	5.29E-06	3.35E-06	3.5964E-03
520707.59	4258701.88	17836.46907	0.12019	0.10682	0.11665	0.10999	3.57E-03	4.92E-06	3.82E-06	4.78E-06	3.78E-06	3.5893E-03
520707.34	4258798.23	17834.99668	0.12343	0.09804	0.11987	0.10092	3.57E-03	5.05E-06	3.51E-06	4.91E-06	3.46E-06	3.5886E-03
520673.99	4258420.88	17834.33812	0.12381	0.13039	0.12017	0.13609	3.57E-03	5.07E-06	4.66E-06	4.92E-06	4.67E-06	3.5909E-03
519969.81	4258599.22	17828.75657	0.46285	1.19921	0.52534	1.11813	3.57E-03	1.90E-05	4.29E-05	2.15E-05	3.84E-05	3.6922E-03
519959.89	4258618.66	17827.56056	0.44784	1.03195	0.5018	0.97281	3.57E-03	1.83E-05	3.69E-05	2.05E-05	3.34E-05	3.6794E-03
520677.4	4258403.97	17819.45754	0.12213	0.12984	0.11863	0.13537	3.57E-03	5.00E-06	4.64E-06	4.86E-06	4.65E-06	3.5877E-03
520692.24	4258858.23	17816.50809	0.13124	0.09485	0.12759	0.09779	3.57E-03	5.37E-06	3.39E-06	5.22E-06	3.36E-06	3.5853E-03
520149.14	4258132.54	17811.78251	0.15512	4.24828	0.1552	4.87086	3.57E-03	6.35E-06	1.52E-04	6.35E-06	1.67E-04	3.8989E-03
520670.69	4258438.06	17809.35232	0.12542	0.1309	0.12159	0.13676	3.57E-03	5.14E-06	4.68E-06	4.98E-06	4.70E-06	3.5861E-03
520045.87	4259259.92	17789.34351	6.10454	0.15803	8.54294	0.15401	3.56E-03	2.50E-04	5.65E-06	3.50E-04	5.29E-06	4.1732E-03
520704.84	4258684.52	17786.05247	0.12055	0.10896	0.11671	0.11213	3.56E-03	4.94E-06	3.90E-06	4.78E-06	3.85E-06	3.5794E-03
520710.45	4258719	17785.26879	0.11977	0.10455	0.11644	0.10779	3.56E-03	4.90E-06	3.74E-06	4.77E-06	3.70E-06	3.5789E-03
520664.82	4258474.39	17784.06255	0.12836	0.13188	0.12393	0.13776	3.56E-03	5.26E-06	4.72E-06	5.07E-06	4.73E-06	3.5813E-03
520695.05	4258646.54	17778.76221	0.12261	0.11423	0.11814	0.11787	3.56E-03	5.02E-06	4.09E-06	4.84E-06	4.05E-06	3.5784E-03
520096.42	4259293.23	17763.42573	11.36135	0.15802	10.33526	0.15005	3.56E-03	4.65E-04	5.65E-06	4.23E-04	5.15E-06	4.4565E-03
519879.5	4258881.79	17755.69846	0.41219	0.31775	0.43819	0.30825	3.56E-03	1.69E-05	1.14E-05	1.79E-05	1.06E-05	3.6126E-03
520695.87	4258849.56	17750.9293	0.1295	0.09511	0.12589	0.09797	3.55E-03	5.30E-06	3.40E-06	5.15E-06	3.36E-06	3.5721E-03
520680.9	4258387.29	17749.21511	0.12042	0.12918	0.11702	0.13457	3.55E-03	4.93E-06	4.62E-06	4.79E-06	4.62E-06	3.5735E-03
519979.73	4258579.79	17736.69483	0.47589	1.41467	0.54363	1.29929	3.55E-03	1.95E-05	5.06E-05	2.23E-05	4.46E-05	3.6890E-03
519999.56	4258540.91	17727.7182	0.48745	2.04543	0.55332	1.819	3.55E-03	2.00E-05	7.32E-05	2.27E-05	6.24E-05	3.7284E-03
520685.9	4258348.68	17713.60129	0.11737	0.12854	0.11424	0.13394	3.55E-03	4.81E-06	4.60E-06	4.68E-06	4.60E-06	3.5661E-03
520712.87	4258761.09	17707.9625	0.12028	0.10006	0.11691	0.10329	3.55E-03	4.92E-06	3.58E-06	4.79E-06	3.55E-06	3.5631E-03
520027.45	4258408.01	17705.42129	0.28722	4.03022	0.30444	3.3828	3.55E-03	1.18E-05	1.44E-04	1.25E-05	1.16E-04	3.8303E-03
520668.2	4258457.4	17679.32654	0.12679	0.13109	0.12266	0.13701	3.54E-03	5.19E-06	4.69E-06	5.02E-06	4.70E-06	3.5601E-03
520699.5	4258840.9	17672.41842	0.12778	0.09536	0.12421	0.09816	3.54E-03	5.23E-06	3.41E-06	5.09E-06	3.37E-06	3.5562E-03
520028.87	4258397.44	17668.7709	0.27495	4.18292	0.29081	3.50053	3.54E-03	1.13E-05	1.50E-04	1.19E-05	1.20E-04	3.8314E-03
520690.33	4258256.83	17662.0149	0.11175	0.12991	0.11009	0.13525	3.54E-03	4.58E-06	4.65E-06	4.51E-06	4.64E-06	3.5554E-03
520689.94	4258281.66	17652.43328	0.11315	0.12893	0.11122	0.13458	3.54E-03	4.63E-06	4.61E-06	4.55E-06	4.62E-06	3.5536E-03
519989.65	4258560.35	17651.45848	0.48451	1.68792	0.55185	1.52776	3.53E-03	1.98E-05	6.04E-05	2.26E-05	5.24E-05	3.6902E-03
520022.69	4258450.19	17647.77569	0.34893	3.5502	0.37448	3.00497	3.53E-03	1.43E-05	1.27E-04	1.53E-05	1.03E-04	3.7940E-03
520713.39	4258735.9	17639.92041	0.11931	0.10226	0.11606	0.10553	3.53E-03	4.89E-06	3.66E-06	4.75E-06	3.62E-06	3.5496E-03
520711	4258789.51	17636.92227	0.12179	0.09801	0.11829	0.10096	3.53E-03	4.99E-06	3.51E-06	4.84E-06	3.47E-06	3.5488E-03
519886.25	4258825.74	17623.44082	0.3943	0.3774	0.41984	0.36489	3.53E-03	1.61E-05	1.35E-05	1.72E-05	1.25E-05	3.5887E-03
520684.48	4258370.81	17620.12075	0.1187	0.1284	0.11539	0.1337	3.53E-03	4.86E-06	4.59E-06	4.72E-06	4.59E-06	3.5474E-03
520119.65	4258172.44	17611.90221	0.16422	7.83074	0.16657	9.10763	3.53E-03	6.72E-06	2.80E-04	6.82E-06	3.13E-04	4.1333E-03
520689.64	4258306.74	17609.06478	0.1145	0.12778	0.11201	0.13353	3.53E-03	4.69E-06	4.57E-06	4.59E-06	4.58E-06	3.5449E-03
519883.15	4258842.38	17599.20413	0.39638	0.35718	0.42156	0.34554	3.52E-03	1.62E-05	1.28E-05	1.73E-05	1.19E-05	3.5826E-03
520690.88	4258219.6	17585.31389	0.10953	0.13137	0.10781	0.13614	3.52E-03	4.48E-06	4.70E-06	4.41E-06	4.67E-06	3.5400E-03
520703.13	4258832.23	17579.04295	0.12607	0.09557	0.12254	0.09832	3.52E-03	5.16E-06	3.42E-06	5.02E-06	3.38E-06	3.5374E-03
520139.32	4258142.5	17575.16661	0.1566	5.06941	0.15719	5.85904	3.52E-03	6.41E-06	1.81E-04	6.44E-06	2.01E-04	3.9150E-03
520704.89	4258675.04	17570.38647	0.12022	0.10962	0.11624	0.11281	3.52E-03	4.92E-06	3.92E-06	4.76E-06	3.87E-06	3.5362E-03
520685.26	4258608.55	17569.97017	0.12473	0.11933	0.12007	0.12363	3.52E-03	5.11E-06	4.27E-06	4.92E-06	4.24E-06	3.5372E-03
519909.53	4258737.19	17567.6603	0.39478	0.53164	0.42761	0.51047	3.52E-03	1.62E-05	1.90E-05	1.75E-05	1.75E-05	3.5884E-03
519889.27	4258808.9	17559.69366	0.39102	0.39902	0.41686	0.38567	3.52E-03	1.60E-05	1.43E-05	1.71E-05	1.32E-05	3.5772E-03
520047.25	4258319.95	17540.46536	0.21548	7.33462	0.22802	5.61451	3.51E-03	8.82E-06	2.62E-04	9.34E-06	1.93E-04	3.9860E-03
520030	4258386.98	17525.84029	0.26322	4.3102	0.27791	3.59891	3.51E-03	1.08E-05	1.54E-04	1.14E-05	1.24E-04	3.8097E-03
519937.12	4258664.6	17504.2284	0.41479	0.76352	0.45474	0.72676	3.51E-03	1.70E-05	2.73E-05	1.86E-05	2.50E-05	3.5933E-03
520086.52	4259293.24	17494.4617	15.07173	0.15614	15.59979	0.14906	3.50E-03	6.17E-04	5.58E-06	6.39E-04	5.12E-06	4.7700E-03
520695.1	4258637.05	17478.89696	0.12238	0.11474	0.11778	0.11851	3.50E-03	5.01E-06	4.10E-06	4.82E-06	4.07E-06	3.5184E-03
520692.47	4258230.3	17478.47282	0.1098	0.13019	0.10809	0.13511	3.50E-03	4.50E-06	4.66E-06	4.43E-06	4.64E-06	3.5185E-03
520706.76	4258823.56	17468.53018	0.12441	0.09576	0.1209	0.09847	3.50E-03	5.09E-06	3.43E-06	4.95E-06	3.38E-06	3.5152E-03
520099.98	4258202.38	17452.47096	0.17168	14.86159	0.17643	15.99199	3.50E-03	7.03E-06	5.32E-04	7.22E-06	5.49E-04	4.5899E-03
520051.83	4259272.06	17443.63894	7.50513	0.15542	12.08496	0.15108	3.49E-03	3.07E-04	5.56E-06	4.95E-04	5.19E-06	4.3062E-03
520036.49	4258354.35	17418.44102	0.23555	5.15313	0.24839	4.20998	3.49E-03	9.64E-06	1.84E-04	1.02E-05	1.45E-04	3.8369E-03
520714.65	4258780.78	17417.60487	0.12019	0.09795	0.11677	0.10096	3.49E-03	4.92E-06	3.50E-06	4.78E-06	3.47E-06	3.5048E-03
520716.42	4258752.61	17410.00689	0.11876	0.10007	0.11553	0.10329	3.49E-03	4.86E-06	3.58E-06	4.73E-06	3.55E-06	3.5033E-03
519892.2	4258791.85	17393.01381	0.38637	0.42216	0.41254	0.40792	3.48E-03	1.58E-05	1.51E-05	1.69E-05	1.40E-05	3.5450E-03
520054.41	4258297.01	17383.71009	0.20354	9.92769	0.21547	6.99899	3.48E-03	8.33E-06	3.55E-04	8.82E-06	2.40E-04	4.0939E-03
519900.14	4258762.77	17373.18774	0.38723	0.47281	0.41598	0.45583	3.48E-03	1.59E-05	1.69E-05	1.70E-05	1.56E-05	3.5447E-03
520063.95	4258273.1	17362.33975	0.19382	18.06496	0.20457	9.84206	3.48E-03	7.94E-06	6.46E-04	8.38E-06	3.38E-04	4.4774E-03
520714.04	4258710.4	17352.6035	0.11827	0.10441	0.11494	0.10753	3.48E-03	4.84E-06	3.73E-06	4.71E-06	3.69E-06	3.4921E-03
520711.21	4258693.23	17347.04686	0.11868	0.10659	0.11509	0.10967	3.47E-03	4.86E-06	3.81E-06	4.71E-06	3.77E-06	3.4911E-03
520710.39	4258814.89	17338.86817	0.12277	0.09588	0.11929	0.09858	3.47E-03	5.03E-06	3.43E-06	4.88E-06	3.38E-06	3.4891E-03
520159	4258112.57	17337.11544	0.14901	3.62941	0.14869	4.12012	3.47E-03	6.10E-06	1.30E-04	6.09E-06	1.41E-04	3.7554E-03
520691.71	4258265.69	17336.98739	0.11137	0.12806	0.10961	0.13347	3.47E-03	4.56E-06	4.58E-06	4.49E-06	4.58E-06	3.4902E-03
519918.02	4258709.44	17335.57702	0.39584	0.59975	0.42946	0.57453	3.47E-03	1.62E-05	2.15E-05	1.76E-05	1.97E-05	3.5467E-03
519874.04	4258918.7	17332.56187	0.41594	0.28323	0.44189	0.27603	3.47E-03	1.70E-05	1.01E-05	1.81E-05	9.48E-06	3.5258E-03
520704.94	4258665.56	17331.23255	0.1199	0.11018	0.11579	0.11345	3.47E-03	4.91E-06	3.94E-06	4.74E-06	3.89E-06	3.4883E-03
520668.18	4258483.23	17327.22142	0.12743	0.1302	0.12285	0.13591	3.47E-03	5.22E-06	4.66E-06	5.03E-06	4.67E-06	3.4896E-03
520693.33	4258290.58	17319.09193	0.11275	0.12695	0.11057	0.13262	3.47E-03	4.62E-06	4.54E-06	4.53E-06	4.55E-06	3.4866E-03
519878.81	4258856.03	17298.15331	0.39113	0.33927	0.4151	0.32855	3.46E-03	1.60E-05	1.21E-05	1.70E-05	1.13E-05	3.5206E-03
520689.38	4258357.8	17292.47879	0.11678	0.12687	0.11353	0.13211	3.46E-03	4.78E-06	4.54E-06	4.65E-06	4.54E-06	3.4816E-03
520129.5	4258152.47	17291.22682	0.15791	6.20159	0.15923	7.20094	3.46E-03	6.47E-06	2.22E-04	6.52E-06	2.47E-04	3.9448E-03
520030.94	4258376.61	17288.1181	0.25209	4.41898	0.26579	3.68365	3.46E-03	1.03E-05	1.58E-04	1.09E-05	1.26E-04	3.7679E-03
520680.82	4258412.93	17285.09424	0.1214	0.12805	0.11784	0.13354	3.46E-03	4.97E-06	4.58E-06	4.82E-06	4.58E-06	3.4805E-03
520677.44	4258429.92	17269.2358	0.123	0.1286	0.11928	0.13426	3.46E-03	5.04E-06	4.60E-06	4.88E-06	4.61E-06	3.4775E-03
520716.97	4258727.36	17263.68346	0.11781	0.10216	0.11462	0.10534	3.46E-03	4.82E-06	3.65E-06	4.69E-06	3.62E-06	3.4741E-03
520684.29	4258396.18	17259.49001	0.11976	0.12742	0.11629	0.13276	3.46E-03	4.90E-06	4.56E-06	4.76E-06	4.56E-06	3.4752E-03
520685.32	4258599.07	17257.36996	0.12441	0.1198	0.11981	0.12417	3.46E-03	5.09E-06	4.29E-06	4.91E-06	4.26E-06	3.4746E-03
520693.06	4258315.73	17251.83448	0.114	0.12632	0.11129	0.1319	3.45E-03	4.67E-06	4.52E-06	4.56E-06	4.53E-06	3.4732E-03
520109.83	4258182.41	17225.52692	0.16523	10.38729	0.16864	11.79446	3.45E-03	6.77E-06	3.72E-04	6.90E-06	4.05E-04	4.2398E-03
520714.02	4258806.22	17183.41816	0.12115	0.09593	0.11771	0.09865	3.44E-03	4.96E-06	3.43E-06	4.82E-06	3.39E-06	3.4578E-03
519875.75	4258872.76	17180.76239	0.39225	0.32153	0.41601	0.3117	3.44E-03	1.61E-05	1.15E-05	1.70E-05	1.07E-05	3.4960E-03
520718.3	4258772.05	17176.27324	0.11864	0.09786	0.11531	0.10093	3.44E-03	4.86E-06	3.50E-06	4.72E-06	3.47E-06	3.4563E-03
520671.53	4258466.16	17174.11015	0.1259	0.12942	0.12163	0.13521	3.44E-03	5.15E-06	4.63E-06	4.98E-06	4.64E-06	3.4588E-03
520687.84	4258379.63	17173.25566	0.11809	0.12672	0.11471	0.13193	3.44E-03	4.84E-06	4.53E-06	4.70E-06	4.53E-06	3.4578E-03
520695.16	4258627.57	17170.58791	0.12195	0.1152	0.11745	0.11911	3.44E-03	4.99E-06	4.12E-06	4.81E-06	4.09E-06	3.4567E-03
520092.31	4259304.47	17150.56632	12.72305	0.15367	11.94546	0.14631	3.43E-03	5.21E-04	5.50E-06	4.89E-04	5.02E-06	4.4552E-03
520149.18	4258122.54	17150.441	0.15048	4.25158	0.1505	4.86062	3.43E-03	6.16E-06	1.52E-04	6.16E-06	1.67E-04	3.7659E-03
520009.44	4258511.78	17145.172	0.45302	2.55742	0.50431	2.22523	3.43E-03	1.85E-05	9.15E-05	2.06E-05	7.64E-05	3.6408E-03
520041.93	4259272.07	17133.49297	5.38645	0.15319	7.24762	0.14956	3.43E-03	2.21E-04	5.47E-06	2.97E-04	5.13E-06	3.9591E-03
519872.52	4258908.12	17128.07961	0.40401	0.29013	0.4286	0.28229	3.43E-03	1.65E-05	1.04E-05	1.75E-05	9.69E-06	3.4843E-03
519895.03	4258774.56	17108.32386	0.38019	0.44694	0.40671	0.43166	3.43E-03	1.56E-05	1.60E-05	1.67E-05	1.48E-05	3.4892E-03
520692.89	4258341.17	17100.934	0.1151	0.12598	0.11202	0.13125	3.42E-03	4.71E-06	4.51E-06	4.59E-06	4.51E-06	3.4430E-03
520719.97	4258744.13	17091.6466	0.11726	0.10002	0.11416	0.1032	3.42E-03	4.80E-06	3.58E-06	4.67E-06	3.54E

520677.64	4258456.32	16710.68648	0.12366	0.12739	0.11958	0.13308	3.35E-03	5.06E-06	4.56E-06	4.90E-06	4.57E-06	3.3656E-03
520092.32	4259314.47	16706.97309	12.82561	0.15053	11.83066	0.1434	3.35E-03	5.25E-04	5.38E-06	4.84E-04	4.92E-06	4.3656E-03
520700.46	4258283.43	16702.51377	0.11059	0.12442	0.10846	0.12992	3.34E-03	4.53E-06	4.45E-06	4.44E-06	4.46E-06	3.3628E-03
520701.12	4258259.29	16699.33494	0.10925	0.12521	0.10744	0.13046	3.34E-03	4.47E-06	4.48E-06	4.40E-06	4.48E-06	3.3621E-03
519885.54	4258799.92	16694.82215	0.36958	0.40131	0.39347	0.38831	3.34E-03	1.51E-05	1.44E-05	1.61E-05	1.33E-05	3.4023E-03
520685.42	4258580.11	16680.68189	0.12382	0.12082	0.11928	0.12522	3.34E-03	5.07E-06	4.32E-06	4.88E-06	4.30E-06	3.3591E-03
520129.54	4258142.47	16673.09348	0.15314	6.2048	0.15432	7.20189	3.34E-03	6.27E-06	2.22E-04	6.32E-06	2.47E-04	3.8208E-03
519959.85	4258608.96	16664.70385	0.42975	1.05064	0.48197	0.98977	3.34E-03	1.76E-05	3.76E-05	1.97E-05	3.40E-05	3.4462E-03
520700.13	4258308.43	16646.94528	0.11183	0.12367	0.10917	0.12913	3.33E-03	4.58E-06	4.42E-06	4.47E-06	4.43E-06	3.3517E-03
520714.89	4258675.09	16636.29603	0.1169	0.10689	0.11313	0.10994	3.33E-03	4.79E-06	3.82E-06	4.63E-06	3.77E-06	3.3487E-03
520725.61	4258754.6	16635.16912	0.11564	0.09777	0.11257	0.10087	3.33E-03	4.73E-06	3.50E-06	4.61E-06	3.46E-06	3.3477E-03
519937.12	4258655.32	16628.65181	0.40029	0.77694	0.43836	0.7405	3.33E-03	1.64E-05	2.78E-05	1.79E-05	2.54E-05	3.4177E-03
519875.04	4258846.93	16625.47711	0.37132	0.34244	0.39345	0.33171	3.33E-03	1.52E-05	1.22E-05	1.61E-05	1.14E-05	3.3844E-03
520109.86	4258172.41	16614.49276	0.16002	10.40377	0.1632	11.81847	3.33E-03	6.55E-06	3.72E-04	6.68E-06	4.06E-04	4.1184E-03
520724.91	4258780.21	16596.98357	0.11653	0.09578	0.11329	0.09869	3.32E-03	4.77E-06	3.43E-06	4.64E-06	3.39E-06	3.3400E-03
520051.86	4259292.06	16595.42506	7.30459	0.14925	12.41777	0.14512	3.32E-03	2.99E-04	5.34E-06	5.08E-04	4.98E-06	4.1413E-03
519872.01	4258863.73	16580.74354	0.3732	0.32483	0.39496	0.31488	3.32E-03	1.53E-05	1.16E-05	1.62E-05	1.08E-05	3.3744E-03
519969.77	4258589.53	16571.40155	0.4426	1.2229	0.50181	1.13712	3.32E-03	1.81E-05	4.37E-05	2.05E-05	3.90E-05	3.4401E-03
519999.52	4258531.21	16559.24122	0.45924	2.07456	0.51681	1.84421	3.32E-03	1.88E-05	7.42E-05	2.12E-05	6.33E-05	3.4937E-03
520695.26	4258608.61	16555.11295	0.12135	0.1161	0.11691	0.12023	3.32E-03	4.97E-06	4.15E-06	4.79E-06	4.13E-06	3.3334E-03
519920.79	4258692	16552.30571	0.38406	0.63573	0.41656	0.60863	3.31E-03	1.57E-05	2.27E-05	1.71E-05	2.09E-05	3.3912E-03
520149.21	4258112.54	16537.47067	0.14611	4.25292	0.14604	4.85883	3.31E-03	5.98E-06	1.52E-04	5.98E-06	1.67E-04	3.6427E-03
520705.1	4258637.11	16508.32819	0.11894	0.11176	0.11467	0.11538	3.31E-03	4.87E-06	4.00E-06	4.70E-06	3.96E-06	3.3235E-03
519868.5	4258886.57	16496.72798	0.37675	0.30316	0.39842	0.29428	3.30E-03	1.54E-05	1.08E-05	1.63E-05	1.01E-05	3.3564E-03
520724.11	4258710.29	16463.22722	0.11493	0.10186	0.11176	0.10484	3.30E-03	4.71E-06	3.64E-06	4.58E-06	3.60E-06	3.3135E-03
519888.44	4258782.79	16450.99941	0.3644	0.42394	0.38846	0.41013	3.29E-03	1.49E-05	1.52E-05	1.59E-05	1.41E-05	3.3546E-03
520721.24	4258693.22	16445.12209	0.11537	0.10399	0.11197	0.10692	3.29E-03	4.72E-06	3.72E-06	4.58E-06	3.67E-06	3.3101E-03
519979.69	4258570.09	16444.64425	0.45294	1.43973	0.51339	1.32095	3.29E-03	1.85E-05	5.15E-05	2.10E-05	4.53E-05	3.4297E-03
520082.42	4259314.48	16440.1344	15.90091	0.14861	18.91807	0.14235	3.29E-03	6.51E-04	5.32E-06	7.75E-04	4.89E-06	4.7206E-03
520696.33	4258376.05	16428.13875	0.11554	0.12356	0.11217	0.12858	3.29E-03	4.73E-06	4.42E-06	4.59E-06	4.41E-06	3.3081E-03
520685.48	4258570.63	16423.66438	0.12356	0.12118	0.11899	0.12561	3.29E-03	5.06E-06	4.33E-06	4.87E-06	4.31E-06	3.3076E-03
520009.4	4258502.08	16422.74489	0.42546	2.58246	0.4689	2.24849	3.29E-03	1.74E-05	9.24E-05	1.92E-05	7.72E-05	3.4951E-03
520704.83	4258243.18	16418.40152	0.10758	0.1243	0.10579	0.12931	3.29E-03	4.40E-06	4.45E-06	4.33E-06	4.44E-06	3.3056E-03
520714.94	4258665.61	16405.32534	0.1166	0.10746	0.11272	0.11058	3.29E-03	4.77E-06	3.84E-06	4.62E-06	3.80E-06	3.3024E-03
520727.08	4258727.16	16395.32902	0.11441	0.09979	0.11142	0.10283	3.28E-03	4.68E-06	3.57E-06	4.56E-06	3.53E-06	3.2997E-03
519989.61	4258550.65	16394.64822	0.45857	1.71424	0.51831	1.55112	3.28E-03	1.88E-05	6.13E-05	2.12E-05	5.33E-05	3.4378E-03
520055.27	4258276.69	16388.0124	0.18927	10.27597	0.20006	7.19542	3.28E-03	7.75E-06	3.68E-04	8.19E-06	2.47E-04	3.9124E-03
520703.84	4258292.29	16385.68651	0.11017	0.12169	0.1078	0.12815	3.28E-03	4.51E-06	4.39E-06	4.41E-06	4.40E-06	3.2992E-03
520704.6	4258268.42	16385.0199	0.10885	0.12339	0.10691	0.12871	3.28E-03	4.46E-06	4.41E-06	4.38E-06	4.42E-06	3.2990E-03
519865.27	4258915.14	16378.19053	0.38344	0.2793	0.4056	0.27184	3.28E-03	1.57E-05	9.99E-06	1.66E-05	9.33E-06	3.3316E-03
520119.72	4258152.44	16376.82808	0.15423	7.84537	0.15623	9.12063	3.28E-03	6.31E-06	2.81E-04	6.40E-06	3.13E-04	3.8861E-03
520038.72	4258323.47	16364.16915	0.20958	5.48863	0.22093	4.45692	3.28E-03	8.58E-06	1.96E-04	9.05E-06	1.53E-04	3.6441E-03
520728.54	4258771.55	16353.09758	0.11505	0.09566	0.11191	0.09863	3.27E-03	4.71E-06	3.42E-06	4.58E-06	3.39E-06	3.2910E-03
519905.8	4258728.19	16352.48618	0.36972	0.53141	0.3993	0.51071	3.27E-03	1.51E-05	1.90E-05	1.63E-05	1.75E-05	3.3428E-03
520139.39	4258122.5	16331.21059	0.14742	5.07602	0.14784	5.84708	3.27E-03	6.04E-06	1.82E-04	6.05E-06	2.01E-04	3.6649E-03
519896.47	4258753.92	16325.19281	0.36457	0.47363	0.39049	0.45716	3.27E-03	1.49E-05	1.69E-05	1.60E-05	1.57E-05	3.3329E-03
520729.26	4258745.88	16324.87562	0.11418	0.09772	0.11123	0.10078	3.27E-03	4.67E-06	3.50E-06	4.55E-06	3.46E-06	3.2855E-03
520699.79	4258359.27	16318.79892	0.11395	0.12282	0.11067	0.12777	3.27E-03	4.67E-06	4.39E-06	4.53E-06	4.39E-06	3.2860E-03
520041.96	4259292.07	16314.972	5.32238	0.14715	7.38698	0.14369	3.27E-03	2.18E-04	5.26E-06	3.02E-04	4.93E-06	3.7979E-03
520703.53	4258317.35	16314.50015	0.11132	0.12227	0.10847	0.12756	3.27E-03	4.56E-06	4.37E-06	4.44E-06	4.38E-06	3.2850E-03
519927.12	4258673.87	16292.10239	0.38505	0.69152	0.41874	0.66105	3.26E-03	1.58E-05	2.47E-05	1.71E-05	2.27E-05	3.3431E-03
520678.21	4258483.68	16291.78551	0.12408	0.12636	0.11958	0.13182	3.26E-03	5.08E-06	4.52E-06	4.90E-06	4.53E-06	3.2817E-03
520064.49	4258252.91	16282.52963	0.18054	18.60954	0.19014	10.03676	3.26E-03	7.39E-06	6.66E-04	7.79E-06	3.45E-04	4.2862E-03
520045.53	4258300.68	16280.5128	0.19815	6.84725	0.20938	5.33975	3.26E-03	8.11E-06	2.45E-04	8.57E-06	1.83E-04	3.7053E-03
520092.34	4259324.47	16276.83213	12.95923	0.14748	11.70976	0.14057	3.26E-03	5.31E-04	5.28E-06	4.79E-04	4.83E-06	4.2798E-03
520691.06	4258413.95	16269.12062	0.11835	0.12401	0.1148	0.12929	3.26E-03	4.85E-06	4.44E-06	4.70E-06	4.44E-06	3.2765E-03
520694.56	4258397.28	16260.7368	0.1168	0.12339	0.11333	0.1285	3.26E-03	4.78E-06	4.41E-06	4.64E-06	4.41E-06	3.2747E-03
520695.32	4258599.13	16257.05741	0.12105	0.11657	0.11667	0.12076	3.26E-03	4.96E-06	4.17E-06	4.78E-06	4.15E-06	3.2737E-03
520687.64	4258430.85	16241.9711	0.11986	0.12459	0.11617	0.13003	3.25E-03	4.91E-06	4.46E-06	4.76E-06	4.46E-06	3.2713E-03
520100.05	4258182.38	16221.96072	16.0072	14.92564	0.16498	15.50809	3.25E-03	6.58E-06	5.34E-04	6.75E-06	5.32E-04	4.3283E-03
520681.11	4258465.44	16218.48367	0.12276	0.12574	0.11855	0.13131	3.25E-03	5.03E-06	4.50E-06	4.85E-06	4.51E-06	3.2669E-03
520705.16	4258627.63	16213.19634	0.11865	0.11219	0.11438	0.11595	3.25E-03	4.86E-06	4.01E-06	4.68E-06	3.98E-06	3.2644E-03
520685.53	4258561.14	16193.83258	0.1233	0.12158	0.11869	0.12602	3.24E-03	5.05E-06	4.35E-06	4.86E-06	4.33E-06	3.2616E-03
519866.94	4258875.98	16178.80738	0.36493	0.30971	0.38546	0.30049	3.24E-03	1.49E-05	1.11E-05	1.58E-05	1.03E-05	3.2921E-03
519875.82	4258824.69	16161.58274	0.35726	0.36243	0.37853	0.35122	3.24E-03	1.46E-05	1.30E-05	1.55E-05	1.21E-05	3.2917E-03
520703.32	4258342.69	16160.78692	0.11236	0.12194	0.1092	0.12692	3.24E-03	4.60E-06	4.36E-06	4.47E-06	4.36E-06	3.2542E-03
520715	4258656.13	16154.67269	0.1163	0.10799	0.11234	0.11121	3.24E-03	4.76E-06	3.86E-06	4.60E-06	3.82E-06	3.2522E-03
519863.68	4258904.54	16141.51843	0.37215	0.28558	0.39307	0.27763	3.23E-03	1.52E-05	1.02E-05	1.61E-05	9.53E-06	3.2836E-03
520052.7	4259304.53	16116.6157	7.50665	0.1457	13.47389	0.14166	3.23E-03	3.07E-04	5.21E-06	5.52E-04	4.86E-06	4.0967E-03
520708.29	4258252.24	16116.42076	0.1072	0.12258	0.10537	0.12767	3.23E-03	4.39E-06	4.38E-06	4.31E-06	4.38E-06	3.2450E-03
520732.17	4258762.88	16105.73713	0.11363	0.09558	0.1106	0.09857	3.23E-03	4.65E-06	3.42E-06	4.53E-06	3.38E-06	3.2414E-03
520129.57	4258132.47	16092.25774	0.14862	6.20763	0.14967	7.21008	3.22E-03	6.09E-06	2.22E-04	6.13E-06	2.48E-04	3.7045E-03
519891.24	4258765.42	16086.67476	0.35767	0.4483	0.38214	0.43332	3.22E-03	1.46E-05	1.60E-05	1.56E-05	1.49E-05	3.2828E-03
520708.07	4258277.54	16076.39943	0.10845	0.12162	0.10631	0.12697	3.22E-03	4.44E-06	4.35E-06	4.35E-06	4.36E-06	3.2370E-03
520707.21	4258301.16	16073.37917	0.10972	0.12112	0.10712	0.12648	3.22E-03	4.49E-06	4.33E-06	4.39E-06	4.34E-06	3.2365E-03
520109.9	4258162.41	16042.15075	0.15511	10.41422	0.15806	11.86834	3.21E-03	6.35E-06	3.73E-04	6.47E-06	4.07E-04	4.0054E-03
520727.69	4258701.76	16041.50044	0.11354	0.10165	0.11034	0.10454	3.21E-03	4.65E-06	3.64E-06	4.52E-06	3.59E-06	3.2289E-03
519878.86	4258807.91	16037.97881	0.35385	0.3821	0.37562	0.37021	3.21E-03	1.45E-05	1.37E-05	1.54E-05	1.27E-05	3.2681E-03
520082.44	4259324.48	16034.1997	15.91924	0.14565	18.63394	0.13957	3.21E-03	6.52E-04	5.21E-06	7.63E-04	4.79E-06	4.6358E-03
519914.39	4258700.67	16033.29726	0.37022	0.59668	0.39979	0.5726	3.21E-03	1.52E-05	2.13E-05	1.64E-05	1.97E-05	3.2834E-03
520730.63	4258718.68	16023.80271	0.11304	0.09965	0.11006	0.10258	3.21E-03	4.63E-06	3.56E-06	4.51E-06	3.52E-06	3.2252E-03
520027.61	4258358.01	16006.97461	0.2282	4.05937	0.23976	3.43629	3.21E-03	9.34E-06	1.45E-04	9.82E-06	1.18E-04	3.4879E-03
520732.92	4258737.15	15994.72809	0.11277	0.09761	0.10988	0.10061	3.20E-03	4.62E-06	3.49E-06	4.50E-06	3.45E-06	3.2192E-03
520685.58	4258551.66	15993.18904	0.12305	0.12188	0.11839	0.12637	3.20E-03	5.04E-06	4.36E-06	4.85E-06	4.34E-06	3.2214E-03
520699.8	4258385.18	15991.63159	0.11491	0.12188	0.11149	0.12684	3.20E-03	4.70E-06	4.36E-06	4.56E-06	4.35E-06	3.2205E-03
520020.18	4258401.03	15986.17555	0.26529	3.39002	0.2803	2.92213	3.20E-03	1.09E-05	1.22E-04	1.15E-05	1.00E-04	3.4457E-03
520039.28	4258313.25	15982.96698	0.20192	5.5738	0.21284	4.52268	3.20E-03	8.27E-06	1.99E-04	8.71E-06	1.55E-04	3.5724E-03
520680.86	4258510.71	15977.06868	0.12373	0.12466	0.11898	0.1297	3.20E-03	5.07E-06	4.46E-06	4.87E-06	4.45E-06	3.2185E-03
520724.83	4258604.63	15976.98125	0.11397	0.10371	0.11053	0.10659	3.20E-03	4.67E-06	3.71E-06	4.53E-06	3.66E-06	3.2162E-03
520695.37	4258589.65	15974.32189	0.12077	0.11705	0.11643	0.12127	3.20E-03	4.94E-06	4.19E-06	4.77E-06	4.16E-06	3.2171E-03
520021.48	4258390.5	15959.73454	0.25451	3.50495	0.26837	3.00751	3.20E-03	1.04E-05	1.25E-04	1.10E-05	1.03E-04	3.4462E-03
519868.26	4258854.71	15954.96669	0.35492	0.32767	0.37502	0.31773	3.20E-03	1.45E-05	1.17E-05	1.54E-05	1.09E-05	3.2477E-03
520012.66	4258474.56	15943.87679	0.3708	2.81823	0.40094	2.43911	3.19E-03	1.52E-05	1.01E-04	1.64E-05	8.37E-05	3.4091E-03
519871.27	4258837.83	15933.10801	0.35247	0.34501	0.37293	0.33446	3.19E-03	1.44E-05	1.23E-05	1.53E-05	1.15E-05	3.2443E-03
520681.2	4258501.58	15928.68257	0.12344	0.12473	0.11876	0.12989	3.19E-03	5.05E-06	4.46E-06	4.86E-06	4.46E-06	3.2088E-03
520009.36	4258492.38	15920.10755	0.40069	2.60367	0.43773	1.2687	3.19E-03	1.64E-05	9.31E-05	1.79E-05	7.79E-05	3.3936E-03
520703.23	4258368.33	15919.55494	0.11336	0.12124	0.11002	0.12609	3.19E-03	4.64E-06	4.34E-06	4.50E-06	4.33E-06	3.2059E-03
520705.21	4258618.15	15917.20986	0.11837	0.1126	0.11412	0.11648	3.19E-03	4.85E-06	4.03E-06	4.67E-06	4.00E-06	3.2052E-03
520681.54	4258492.44	15916.95774	0.12316	0.12493	0.1186	0.13019	3.19E-03	5.04E-06	4.47E-06	4.86E-06	4.47E-06	3.2064E-03
520055.63	4258266.55	15908.04325	0.18274	10.42051	0.19302	7.27358	3.19E-03	7.48E-06	3.73E-04	7.90E-06	2.50E-04	3.8236E-03
520015.77	4258442.74	15899.95718	0.31785	3.05378	0.33934	2.63912	3.18E-03	1.30E-05	1.09E-04	1.39E-05	9.06E-05	3.4106E-03
520715.05	4258646.65	15890.04704	0.11601	0.10847	0.112	0.11181	3.18E-03	4.75E-06	3.88E-06	4.59E-06	3.84E-06	3.1993E-03
520092.36	4259334.47	15870.98586	12.9653	0.14457	11.59682	0.13786	3.18E-03	5.31E-04	5.17E-06	4.75E-04	4.73E-06	4.1940E-03
520046.09	4258290.46	15866.78021	0.19123	6.96703	0.20198	5.43134	3.18E-03	7.83E-06	2.49E-04	8.27E-06	1.86E-04	3.6293E-03
519861.99	4258893.9	15860.51045	0.36058	0.29172	0.38032	0.28337	3.18E-03	1.48E-05	1.04E-05	1.56E-05	9.73E-06	3.2268E-03
520022.54	4258380.08	15856.19319	0.24427	3.59457	0.25711	3.08006	3.18E-03	1.00E-05	1.29E-04	1.05E-05	1.06E-04	3.4303E-03
520042.8	4259304.55	15852.07143	5.44814	0.14368	7.74943	0.14029	3.17E-03	2.23E-04	5.14E-06	3.17E-04	4.82E-06	3.7249E-03
520712.03	4258236.19	15848.33141	0.10558	0.12173	0.10374	0.12656	3.17E-03	4.32E-06	4.35E-06	4.25E-06	4.34E-06	3.1911E-03
520735.8	4258754.21	15832.49589	0.11224	0.09551	0.10932	0.09849	3.17E-03	4.60E-06	3.42E-06	4.48E-06	3.38E-06	3.1865E-03
519881.82	4258790.94	15825.93432	0.34941	0.40296	0.37145	0.39036	3.17E-03	1.43E-05	1.44E-05	1.52E-05	1.34E-05	3.2267E-03
520685.64	4258542.18	15823.70812	0.12281	0.12219	0.11812	0.12674	3.17E-03	5.03E-06	4.37E-06	4.84E-06	4.35E-06	3.1875E-03
520711.74	4258261.1	15820.43565	0.10683	0.12077	0.10488	0.12595	3.17E-03	4.37E-06	4.22E-06	4.29E-06	4.32E-06	3.1856E-03
520119.75	4258142.44	15816.31654	0.14965	7.84944	0.15148	9.15061	3.17E-03	6.13E-06	2.81E-04	6.20E-06	3.14E-04	3.7747E-03
519899.32	4258736.69	15799.36067	0.35593	0.50149	0.38285	0.483	3.16E-03	1.46E-05	1.79E-05	1.57E-05	1.66E-05	3.2288E-03
520697.92	4258406.1	15797.72005	0.11611	0.12178	0.11263	0.12686	3.16E-03	4.75E-06	4.36E-06	4.61E-06	4.36E-06	3.1818E-03
520028.6	4258347.62	15788.40846	0.21963	4.15991	0.23065	3.51465	3.16E-03	8.99E-06	1.49E-04	9.44E-06	1.21E-04	3.4497E-03
520694.44	4258422.84	15780.54074	0.11761	0.12237	0.11401	0.12762	3.16E-03	4.82E-06	4.38E-06	4.67E-06	4.38E-06	3.1785E-03
520724.89	4258675.15	15772.31763	0.1137	0.10426	0.11013	0.10718	3.16E-03	4.66E-06	3.73E-06	4.51E-06	3.68E-06	3.1752E-03
520684.58	4258474.57	15769.82912	0.12183	0.12422	0.11753	0.12963	3.16E-03	4.99E-06	4.44E-06	4.81E-06	4.45E-06	3.1768E-03
520711.54	4258286.67	15769.63206	0.10801	0.12	0.10567	0.1253	3.16E-03	4.42E-06	4.29E-06	4.33E-06	4.30E-06	3.1754E-03
520139.42	4258112.5	15767.30283	0.1432	5.07727	0.14353	5.84917	3.16E-03	5.86E-06	1.82E-04	5.88E-06	2.01E-04	3.5518E-03
519937.12	4258646.05	15766.53398	0.38661	0.78932	0.42324	0.75345	3.16E-03	1.58E-05	2.82E-05	1.73E-05	2.59E-05	3.2447E-03
520710.59	4258310.02	15762.68806	0.10925	0.11969	0.10644	0.12489	3.16E-03	4.47E-06	4.28E-06	4.36E-06	4.29E-06	3.1741E-03
520691.05	4258439.81	15743.21699	0.11906	0.12296	0.11528	0.12836	3.15E-03	4.87E-06	4.40E-06	4.72E-06	4.41E-06	3.1712E-03
520052.72	4259314.53	15729.71568	7.40717	0.14282	13.7302	0.1389	3.15E-03	3.07E-04	5.11E-06	5.62E-04	4.77E-06	4.0291E-03
520687.76	4258457.04	15725.34115	0.12047	0.12357	0.11644	0.12903	3.15E-03	4.93E-06	4.42E-06	4.77E-06	4.43E-06	3.1678E-03
520695.42	4258580.16	15708.02879	0.12049	0.11758	0.11618	0.12179	3.15E-03	4.93E-06	4.21E-06	4.76E-06	4.18E-06	3.1638E-03
520685.69	4258532.7	15688.62408	0.12259	0.12249	0.11788	0.12713	3.14E-03	5.02E-06	4.38E-06	4.83E-06	4.36E-06	3.1605E-03
520100.08	4258172.38	15675.462	0.15576	14.96626	0.15973	15.6528	3.14E-03	6.38E-06	5.35E-04	6.54E-06	5.37E-04	4.2248E-03
519908.44	4258710.45	15673.58459	0.35967	0.5619	0.38766	0.53997	3.14E-03	1.47E-05	2.01E-05	1.59E-05	1.85E-05	3.2081E-03
520063.45	4258243.35	15667.68562	0.17396	16.89893	0.18306	9.64845	3.14E-03	7.12E-06	6.04E-04	7.50E-06	3.31E-04	4.0880E-03
520736.57	4258728.43	15648.81295	0.11137	0.09755	0.10856	0.10045	3.13E-03	4.56E-06	3.49E-06	4.44E-06	3.45E-06	3.1498E-03
520082.46	4259334.48	15642.35225	15.82203	0.1428	18.37836	0.1369	3.13E-03	6.48E-04	5.11E-06	7.52E-04	4.70E-06	4.5427E-03
520734.18	4258710.19	15638.52723	0.11169	0.09952	0.10872	0.10234	3.13E-03	4.57E-06	3.56E-06	4.45E-06	3.51E-06	3.1479E-03
519999.48	4258521.52	15627.62468	0.43308	2.10159	0.4833	1.86737	3.13E-03	1.77E-05	7.52E-05	1.98E-05	6.41E-05	3.3064E-03
520705.26	4258608.67	15624.9238	0.1181	0.11301	0.11389	0.11698	3.13E-03	4.84E-06	4.04E-06	4.66E-06	4.02E-06	3.1467E-03
519949.89	4258618.7	15622.58145	0.40001	0.93111	0.44393	0.88381	3.13E-03	1.64E-05	3.33E-05	1.82E-05	3.03E-05	3.2268E-03
520715.1	4258637.17	15614.47807	0.11574	0.10887	0.11169	0.11235	3.13E-03	4.74E-06	3.89E-06	4.57E-06	3.86E-06	3.1441E-03
520731.26	4258693.22	15610.11702	0.11218	0.10147	0.10896	0.10427	3.13E-03	4.59E-06	3.63E-06	4.46E-06	3.58E-06	3.1424E-03
520685.75	4258523.22	15586.73664	0.12238	0.12268	0.11767	0.12744	3.12E-03	5.01E-06	4.39E-06	4.82E-06	4.38E-06	3.1400E-03
520715.45	4258245.19	15562.19976	0.10521	0.1201	0.10336	0.12501	3.12E-03	4.31E-06	4.30E-06	4.23E-06	4.29E-06	3.1337E-03
519959.81	4258599.26	15555.50399	0.41254	1.06971	0.46281	1.00599	3.12E-03	1.69E-05	3.83E-05	1.89E-05	3.45E-05	3.2238E-03
520724.94	4258665.67	15548.99997	0.11343	0.10481	0.10976	0.1078	3.11E-03	4.64E-06	3.75E-06	4.49E-06	3.70E-06	3.1305E-03
520129.6	4258122.47	15546.10156	0.14433	6.2087	0.14526	7.22412	3.11E-03	5.91E-06	2.22E-04	5.95E-06	2.48E-04	3.5953E-03
520703.28	4258394.31	15544.68814	0.11424	0.12024	0.11081	0.12516	3.11E-03	4.68E-06	4.30E-06	4.54E-06	4.30E-06	3.1308E-03
520739.43	4258745.54	15533.96152	0.11087	0.09545	0.10806	0.09839	3.11E-03	4.54E-06	3.41E-06	4.42E-06	3.38E-06	3.1270E-03
520029.45	4258337.28	15532.31925	0.21151	4.24793	0.22205	3.58367	3.11E-03	8.66E-06	1.52E-04	9.09E-06	1.23E-04	3.4033E-03
520715.19	4258270.36	15526.97125	0.10644	0.11905	0.10432	0.12427	3.11E-03	4.36E-06	4.26E-06

519902.06	4258719.18	15174.16914	0.34655	0.52989	0.37302	0.50981	3.04E-03	1.42E-05	1.90E-05	1.53E-05	1.75E-05	3.1048E-03
520734.83	4258684.69	15170.27029	0.11085	0.10122	0.1076	0.10398	3.04E-03	4.54E-06	3.62E-06	4.41E-06	3.57E-06	3.0542E-03
520718.49	4258304.92	15166.41201	0.1071	0.11689	0.10431	0.12197	3.04E-03	4.39E-06	4.18E-06	4.27E-06	4.19E-06	3.0543E-03
520100.11	4258162.38	15160.16116	0.15106	14.99827	0.15476	15.85769	3.04E-03	6.19E-06	5.36E-04	6.34E-06	5.44E-04	4.1294E-03
520042.84	4259324.55	15115.00865	5.45596	0.13815	7.91258	0.13494	3.03E-03	2.23E-04	4.94E-06	3.24E-04	4.63E-06	5.3839E-03
520706.75	4258403.43	15097.23054	0.11356	0.11861	0.11011	0.12351	3.02E-03	4.65E-06	4.24E-06	4.51E-06	4.24E-06	3.0411E-03
520092.8	4259355.29	15086.3754	12.69207	0.13889	11.20425	0.13255	3.02E-03	5.20E-04	4.97E-06	4.59E-04	4.55E-06	4.0092E-03
519887.45	4258756.28	15078.11	0.33667	0.44876	0.35897	0.43414	3.02E-03	1.38E-05	1.61E-05	1.47E-05	1.49E-05	3.0790E-03
520705.37	4258589.7	15072.39623	0.11757	0.11392	0.11344	0.11797	3.02E-03	4.81E-06	4.07E-06	4.64E-06	4.05E-06	3.0360E-03
520695.58	4258551.72	15065.17332	0.1198	0.11858	0.11535	0.12287	3.02E-03	4.91E-06	4.24E-06	4.72E-06	4.22E-06	3.0353E-03
520690.85	4258511.08	15053.71739	0.12051	0.12123	0.11593	0.12604	3.01E-03	4.93E-06	4.34E-06	4.75E-06	4.33E-06	3.0331E-03
520725.05	4258646.71	15053.62612	0.1129	0.10574	0.1091	0.10896	3.01E-03	4.62E-06	3.78E-06	4.47E-06	3.74E-06	3.0313E-03
520715.21	4258618.2	15048.94509	0.11521	0.10968	0.11119	0.11341	3.01E-03	4.72E-06	3.92E-06	4.55E-06	3.89E-06	3.0308E-03
520047.03	4258270.1	15041.23875	0.17844	7.17285	0.1884	5.56741	3.01E-03	7.31E-06	2.57E-04	7.71E-06	1.91E-04	3.4749E-03
520129.63	4258112.47	15024.82122	0.14024	6.21097	0.14108	7.22608	3.01E-03	5.74E-06	2.22E-04	5.78E-06	2.48E-04	3.4907E-03
520691.19	4258501.95	15011.55438	0.12024	0.12129	0.11572	0.12621	3.01E-03	4.92E-06	4.34E-06	4.74E-06	4.33E-06	3.0246E-03
520722.31	4258263.2	15006.49958	0.10448	0.11672	0.10239	0.12178	3.01E-03	4.28E-06	4.17E-06	4.19E-06	4.18E-06	3.0221E-03
520691.53	4258492.82	15002.58732	0.11996	0.12144	0.11554	0.12646	3.00E-03	4.91E-06	4.34E-06	4.73E-06	4.34E-06	3.0228E-03
520052.75	4259334.53	14994.65095	7.5258	0.13735	14.22908	0.13364	3.00E-03	3.08E-04	4.91E-06	5.83E-04	4.59E-06	3.9031E-03
520109.96	4258142.41	14990.11578	0.14604	10.43302	0.14858	11.98875	3.00E-03	5.98E-06	3.73E-04	6.08E-06	4.12E-04	3.7988E-03
520734.89	4258675.21	14971.57139	0.11061	0.10173	0.10724	0.10453	3.00E-03	4.53E-06	3.64E-06	4.39E-06	3.59E-06	3.0144E-03
520722.09	4258288.49	14954.4451	0.10558	0.11602	0.10307	0.12113	2.99E-03	4.32E-06	4.15E-06	4.22E-06	4.16E-06	3.0117E-03
520030.84	4258316.73	14952.36096	0.19659	4.93365	0.20633	3.70121	2.99E-03	8.05E-06	1.57E-04	8.45E-06	1.27E-04	3.2951E-03
519878.09	4258781.96	14951.16246	0.33031	0.40406	0.35072	0.39179	2.99E-03	1.35E-05	1.45E-05	1.44E-05	1.35E-05	3.0500E-03
519937.12	4258636.77	14921.6155	0.37368	0.80119	0.40941	0.76569	2.99E-03	1.53E-05	2.87E-05	1.68E-05	2.63E-05	3.0753E-03
519999.44	4258511.82	14916.92714	0.40894	1.12648	0.45261	1.88851	2.99E-03	1.67E-05	7.61E-05	1.85E-05	6.48E-05	3.1635E-03
520743.87	4258710.98	14911.28123	0.1087	0.09729	0.10591	0.09998	2.99E-03	4.45E-06	3.48E-06	4.34E-06	3.43E-06	3.0019E-03
520695.64	4258542.24	14907.70145	0.11958	0.1188	0.11508	0.12317	2.99E-03	4.90E-06	4.25E-06	4.71E-06	4.23E-06	3.0036E-03
520037.31	4258294.09	14897.66231	0.18626	5.23396	0.19607	4.30669	2.98E-03	7.63E-06	1.87E-04	8.03E-06	1.48E-04	3.3342E-03
520746.69	4258728.2	14892.87957	0.10822	0.09531	0.10555	0.09808	2.98E-03	4.43E-06	3.41E-06	4.32E-06	3.37E-06	2.9980E-03
519853.09	4258890.3	14890.37448	0.33263	0.28607	0.34945	0.27799	2.98E-03	1.36E-05	1.02E-05	1.43E-05	9.54E-06	3.0297E-03
520704.63	4258423.74	14887.09914	0.11469	0.11862	0.11114	0.12367	2.98E-03	4.70E-06	4.24E-06	4.55E-06	4.25E-06	2.9991E-03
520082.9	4259355.31	14878.35828	14.12594	0.13722	17.49195	0.13164	2.98E-03	5.78E-04	4.91E-06	7.16E-04	4.52E-06	4.2836E-03
520721.97	4258314.05	14867.77638	0.1066	0.1156	0.10365	0.12048	2.98E-03	4.36E-06	4.13E-06	4.24E-06	4.14E-06	2.9944E-03
520694.64	4258475.12	14865.61534	0.1187	0.12066	0.1145	0.12582	2.98E-03	4.86E-06	4.32E-06	4.69E-06	4.32E-06	2.9952E-03
520054.57	4258247.01	14856.30836	0.17008	9.7882	0.17936	7.01779	2.98E-03	6.96E-06	3.50E-04	7.34E-06	2.41E-04	3.5805E-03
520009.19	4258458.73	14840.57631	0.32975	2.65368	0.35317	2.32304	2.97E-03	1.35E-05	9.49E-05	1.45E-05	7.98E-05	3.1747E-03
520741.28	4258693.23	14834.9504	0.1091	0.0991	0.10606	0.10177	2.97E-03	4.47E-06	3.54E-06	4.34E-06	3.49E-06	2.9867E-03
520697.87	4258457.73	14822.34055	0.11739	0.11996	0.11345	0.12517	2.97E-03	4.81E-06	4.29E-06	4.65E-06	4.30E-06	2.9864E-03
520705.42	4258580.22	14820.53233	0.11731	0.11441	0.11321	0.11845	2.97E-03	4.80E-06	4.09E-06	4.64E-06	4.07E-06	2.9856E-03
520720.71	4258336.62	14806.72886	0.10765	0.11583	0.10453	0.12042	2.97E-03	4.41E-06	4.14E-06	4.28E-06	4.13E-06	2.9822E-03
520011.26	4258429.45	14802.62341	0.28763	2.79869	0.30536	2.44862	2.96E-03	1.18E-05	1.02E-04	1.25E-05	8.41E-05	3.1729E-03
520725.1	4258637.22	14789.16945	0.11265	0.10612	0.10883	0.10947	2.96E-03	4.61E-06	3.80E-06	4.46E-06	3.76E-06	2.9784E-03
520119.81	4258122.44	14785.16607	0.14115	7.85414	0.14269	9.20502	2.96E-03	5.78E-06	2.81E-04	5.84E-06	3.16E-04	3.5695E-03
520695.69	4258532.76	14783.72937	0.11938	0.11909	0.11486	0.12353	2.96E-03	4.89E-06	4.26E-06	4.70E-06	4.24E-06	2.9787E-03
519910.75	4258691.91	14783.43051	0.34655	0.59226	0.37302	0.56925	2.96E-03	1.42E-05	2.12E-05	1.53E-05	1.95E-05	3.0308E-03
520715.26	4258608.72	14770.43226	0.11496	0.11008	0.11098	0.1139	2.96E-03	4.71E-06	3.94E-06	4.54E-06	3.91E-06	2.9751E-03
520042.85	4259334.55	14764.49393	5.46518	0.13552	7.9915	0.13239	2.96E-03	2.24E-04	4.85E-06	3.27E-04	4.55E-06	3.5172E-03
520734.94	4258665.73	14755.85206	0.11037	0.10224	0.1069	0.10511	2.96E-03	4.52E-06	3.66E-06	4.38E-06	3.61E-06	2.9712E-03
520064	4258223.15	14746.21532	0.16295	17.40711	0.17112	9.81808	2.95E-03	6.67E-06	6.23E-04	7.01E-06	3.37E-04	3.9265E-03
519927.12	4258655.32	14742.89504	0.36031	0.71407	0.39121	0.68444	2.95E-03	1.48E-05	2.55E-05	1.60E-05	2.35E-05	3.0323E-03
520725.74	4258272.21	14734.39648	0.10407	0.11518	0.10181	0.12024	2.95E-03	4.26E-06	4.12E-06	4.17E-06	4.13E-06	2.9674E-03
520092.82	4259365.29	14724.19497	12.63571	0.13626	11.09954	0.1301	2.95E-03	5.17E-04	4.87E-06	4.54E-04	4.47E-06	3.9299E-03
520018.73	4258361.68	14702.17606	0.22112	3.30649	0.23196	2.86913	2.94E-03	9.05E-06	1.18E-04	9.50E-06	9.85E-05	3.1796E-03
520695.75	4258523.27	14690.86864	0.11918	0.11925	0.11465	0.12381	2.94E-03	4.88E-06	4.27E-06	4.69E-06	4.25E-06	2.9601E-03
519895.62	4258727.77	14680.97162	0.33373	0.50051	0.35866	0.48214	2.94E-03	1.37E-05	1.79E-05	1.47E-05	1.66E-05	3.0029E-03
520725.54	4258297.55	14673.90199	0.10513	0.1146	0.10242	0.11959	2.94E-03	4.30E-06	4.10E-06	4.19E-06	4.11E-06	2.9554E-03
519868.48	4258807	14666.98087	0.32178	0.36578	0.34035	0.35519	2.94E-03	1.32E-05	1.31E-05	1.39E-05	1.22E-05	2.9897E-03
520100.14	4258152.38	14663.7744	0.14658	15.02436	0.15006	15.85514	2.94E-03	6.00E-06	5.37E-04	6.14E-06	5.44E-04	4.0305E-03
520053.18	4259344.53	14654.75487	7.69063	0.13481	14.97615	0.13118	2.93E-03	3.15E-04	4.82E-06	6.13E-04	4.50E-06	3.8722E-03
519860.78	4258836.65	14653.74431	0.32094	0.33185	0.3383	0.32239	2.93E-03	1.31E-05	1.19E-05	1.39E-05	1.11E-05	2.9845E-03
520047.43	4258259.95	14647.72851	0.1726	7.25673	0.18214	5.63286	2.93E-03	7.07E-06	2.60E-04	7.46E-06	1.93E-04	3.4009E-03
519949.85	4258609	14638.07597	0.38517	0.94644	0.42781	0.89773	2.93E-03	1.58E-05	3.39E-05	1.75E-05	3.08E-05	3.0294E-03
520730.52	4258361.97	14609.94761	0.10861	0.11524	0.10533	0.11973	2.93E-03	4.45E-06	4.12E-06	4.31E-06	4.11E-06	2.9428E-03
519854.6	4258863.81	14605.08885	0.32129	0.30531	0.33772	0.29665	2.92E-03	1.32E-05	1.09E-05	1.38E-05	1.02E-05	2.9730E-03
520705.48	4258570.74	14593.6653	0.11709	0.11475	0.11296	0.11881	2.92E-03	4.79E-06	4.10E-06	4.63E-06	4.08E-06	2.9402E-03
519847.71	4258908.04	14574.61512	0.32771	0.27013	0.34376	0.26273	2.92E-03	1.34E-05	9.66E-06	1.41E-05	9.02E-06	2.9649E-03
520019.85	4258351.23	14572.86798	0.21312	3.38911	0.22332	2.93651	2.92E-03	8.73E-06	1.21E-04	9.14E-06	1.01E-04	3.1583E-03
519880.93	4258764.68	14571.60298	0.32421	0.42591	0.34483	0.4126	2.92E-03	1.33E-05	1.52E-05	1.41E-05	1.42E-05	2.9750E-03
520037.9	4258283.86	14555.67372	0.18006	5.31391	0.18955	4.37136	2.91E-03	7.37E-06	1.90E-04	7.76E-06	1.50E-04	3.2702E-03
520750.32	4258719.53	14549.10918	0.10695	0.09513	0.10428	0.09781	2.91E-03	4.38E-06	3.40E-06	4.27E-06	3.36E-06	2.9291E-03
520012.95	4258394.02	14537.16838	0.24609	2.92041	0.25925	2.55849	2.91E-03	1.01E-05	1.04E-04	1.06E-05	8.78E-05	3.1243E-03
520082.92	4259365.31	14523.57991	15.70952	0.13463	17.25251	0.1292	2.91E-03	6.43E-04	4.82E-06	7.06E-04	4.44E-06	4.2674E-03
520747.53	4258702.25	14523.48259	0.10742	0.09707	0.10459	0.09968	2.91E-03	4.40E-06	3.47E-06	4.28E-06	3.42E-06	2.9241E-03
520735	4258656.24	14523.3266	0.11013	0.10269	0.10659	0.10567	2.91E-03	4.51E-06	3.67E-06	4.36E-06	3.63E-06	2.9247E-03
520725.16	4258627.74	14519.12696	0.11241	0.10649	0.10859	0.10997	2.91E-03	4.60E-06	3.81E-06	4.45E-06	3.78E-06	2.9243E-03
520014.14	4258383.54	14518.92111	0.23662	2.99651	0.24885	2.62189	2.91E-03	9.69E-06	1.07E-04	1.02E-05	9.00E-05	3.1247E-03
519917.12	4258673.87	14509.4049	0.34739	0.64051	0.37494	0.61505	2.91E-03	1.42E-05	2.29E-05	1.54E-05	2.11E-05	2.9793E-03
519863.72	4258819.63	14508.43744	0.31759	0.34848	0.3351	0.33865	2.91E-03	1.30E-05	1.25E-05	1.37E-05	1.16E-05	2.9563E-03
520109.99	4258132.41	14506.38579	0.14185	10.43818	0.14421	12.05007	2.91E-03	5.81E-06	3.73E-04	5.90E-06	4.14E-04	3.7039E-03
520724.09	4258345.48	14506.19695	0.10718	0.1144	0.10395	0.11889	2.91E-03	4.39E-06	4.09E-06	4.26E-06	4.08E-06	2.9219E-03
519959.77	4258589.57	14506.05203	0.39593	1.08894	0.44387	1.02148	2.91E-03	1.62E-05	3.89E-05	1.82E-05	3.51E-05	3.0134E-03
520715.32	4258599.24	14500.34474	0.11472	0.11047	0.11078	0.11435	2.90E-03	4.70E-06	3.95E-06	4.54E-06	3.93E-06	2.9210E-03
520698.09	4258484.15	14492.46164	0.11779	0.11934	0.11354	0.12432	2.90E-03	4.82E-06	4.27E-06	4.65E-06	4.27E-06	2.9203E-03
520729.17	4258281.21	14466.8689	0.10367	0.11355	0.1012	0.11858	2.90E-03	4.24E-06	4.06E-06	4.14E-06	4.07E-06	2.9137E-03
519904.67	4258701.35	14464.06876	0.33678	0.55816	0.36134	0.53741	2.90E-03	1.38E-05	2.00E-05	1.48E-05	1.84E-05	2.9636E-03
520054.94	4258236.87	14443.55596	0.16468	9.9189	0.17353	7.0919	2.89E-03	6.74E-06	3.55E-04	7.11E-06	2.43E-04	3.5046E-03
520015.14	4258373.14	14442.68389	0.2276	3.0623	0.23899	2.67703	2.89E-03	9.32E-06	1.10E-04	9.79E-06	9.19E-05	3.1129E-03
520043.28	4259344.55	14434.82779	5.55415	0.13304	8.22942	0.12997	2.89E-03	2.27E-04	4.76E-06	3.37E-04	4.46E-06	3.4643E-03
519989.52	4258531.26	14425.57278	0.41206	1.76187	0.45928	1.59249	2.89E-03	1.69E-05	6.30E-05	1.88E-05	5.47E-05	3.0423E-03
519871.47	4258790.09	14420.74264	0.31757	0.38468	0.33637	0.37346	2.89E-03	1.30E-05	1.38E-05	1.38E-05	1.28E-05	2.9413E-03
520744.83	4258684.75	14420.72666	0.10785	0.09881	0.10478	0.10145	2.89E-03	4.42E-06	3.53E-06	4.29E-06	3.48E-06	2.9037E-03
520701.29	4258466.69	14411.56046	0.11655	0.1185	0.11252	0.1236	2.89E-03	4.77E-06	4.24E-06	4.61E-06	4.24E-06	2.9040E-03
520020.82	4258340.84	14402.6648	0.20552	3.46188	0.21513	2.99744	2.88E-03	8.41E-06	1.24E-04	8.81E-06	1.03E-04	3.1283E-03
520728.99	4258306.62	14395.50825	0.10467	0.11323	0.10177	0.11805	2.88E-03	4.29E-06	4.05E-06	4.17E-06	4.05E-06	2.8995E-03
520705.53	4258561.26	14391.07705	0.11688	0.11504	0.11269	0.11913	2.88E-03	4.79E-06	4.11E-06	4.61E-06	4.09E-06	2.8996E-03
520092.84	4259375.29	14371.19927	12.60874	0.13369	10.98905	0.12771	2.88E-03	5.16E-04	4.78E-06	4.50E-04	4.38E-06	3.8534E-03
519969.69	4258570.13	14359.50609	0.40473	1.26526	0.45362	1.17316	2.88E-03	1.66E-05	4.53E-05	1.86E-05	4.03E-05	2.9964E-03
519999.44	4258502.12	14354.94726	0.38642	2.14822	0.42408	1.90778	2.87E-03	1.58E-05	7.68E-05	1.74E-05	6.55E-05	3.0503E-03
520053.2	4259354.53	14317.09151	7.75148	0.13229	15.27015	0.12876	2.87E-03	3.17E-04	4.73E-06	6.25E-04	4.42E-06	3.8189E-03
520064.24	4258213.06	14312.54883	0.15789	17.62013	0.16563	9.88711	2.87E-03	6.46E-06	6.30E-04	6.78E-06	3.39E-04	3.8402E-03
520119.84	4258112.44	14304.22998	0.13719	7.85872	0.13862	9.20207	2.86E-03	5.62E-06	2.81E-04	5.68E-06	3.16E-04	3.4729E-03
519846.01	4258897.39	14290.67221	0.31771	0.27522	0.33289	0.26764	2.86E-03	1.30E-05	9.84E-06	1.36E-05	9.19E-06	2.9076E-03
519979.61	4258550.69	14285.54215	0.41015	1.48279	0.45838	1.35989	2.86E-03	1.68E-05	5.30E-05	1.88E-05	4.67E-05	2.9962E-03
520720.43	4258387.62	14284.43809	0.10943	0.11445	0.10611	0.11899	2.86E-03	4.48E-06	4.09E-06	4.34E-06	4.09E-06	2.8777E-03
520735.05	4258646.76	14279.25377	0.1099	0.10309	0.10631	0.10619	2.86E-03	4.50E-06	3.69E-06	4.35E-06	3.65E-06	2.8758E-03
519889.13	4258736.23	14257.67052	0.32301	0.47329	0.34491	0.45729	2.86E-03	1.32E-05	1.69E-05	1.41E-05	1.57E-05	2.9153E-03
520723.91	4258370.89	14255.78725	0.10804	0.11383	0.10475	0.11825	2.85E-03	4.42E-06	4.07E-06	4.29E-06	4.06E-06	2.8718E-03
520725.21	4258618.26	14249.32684	0.11217	0.10687	0.10838	0.11046	2.85E-03	4.59E-06	3.82E-06	4.44E-06	3.79E-06	2.8703E-03
520715.37	4258589.76	14245.14559	0.11449	0.11087	0.11057	0.11478	2.85E-03	4.69E-06	3.97E-06	4.53E-06	3.94E-06	2.8699E-03
520007.6	4258438.34	14243.98891	0.29317	2.59818	0.31161	2.28841	2.85E-03	1.20E-05	9.29E-05	1.28E-05	7.86E-05	3.0488E-03
520027.77	4258308.01	14240.00197	0.18762	4.06165	0.19657	3.46285	2.85E-03	7.68E-06	1.45E-04	8.05E-06	1.19E-04	3.1116E-03
520744.89	4258675.26	14227.85486	0.10764	0.0993	0.10445	0.10199	2.85E-03	4.41E-06	3.55E-06	4.28E-06	3.50E-06	2.8651E-03
520705.58	4258551.78	14216.16103	0.11668	0.11535	0.11243	0.11947	2.85E-03	4.78E-06	4.13E-06	4.60E-06	4.10E-06	2.8646E-03
520038.43	4258273.65	14212.86357	0.17416	5.38672	0.18337	4.42712	2.85E-03	7.13E-06	1.93E-04	7.51E-06	1.52E-04	3.2056E-03
520700.84	4258511.46	14206.74688	0.1174	0.11785	0.11299	0.12244	2.85E-03	4.81E-06	4.22E-06	4.63E-06	4.20E-06	2.8629E-03
520732.6	4258290.22	14204.35118	0.10323	0.11227	0.10058	0.11718	2.84E-03	4.23E-06	4.02E-06	4.12E-06	4.02E-06	2.8610E-03
520021.66	4258330.5	14200.33809	0.19828	3.52608	0.20742	3.05073	2.84E-03	8.12E-06	1.26E-04	8.49E-06	1.05E-04	3.0913E-03
520100.17	4258142.38	14196.26664	0.14233	15.04492	0.1456	15.91239	2.84E-03	5.83E-06	5.38E-04	5.96E-06	5.46E-04	3.9392E-03
520753.95	4258710.86	14193.44198	0.10571	0.09495	0.10303	0.09754	2.84E-03	4.33E-06	3.40E-06	4.22E-06	3.35E-06	2.8577E-03
520082.94	4259375.31	14183.30432	15.65256	0.13212	17.01862	0.12685	2.84E-03	6.41E-04	4.73E-06	6.97E-04	4.35E-06	4.1872E-03
520727.46	4258354.35	14182.52505	0.10663	0.11307	0.10339	0.11744	2.84E-03	4.37E-06	4.04E-06	4.23E-06	4.03E-06	2.8569E-03
520701.18	4258502.33	14169.80421	0.11715	0.11796	0.11279	0.12265	2.84E-03	4.80E-06	4.22E-06	4.62E-06	4.21E-06	2.8555E-03
520701.53	4258493.19	14162.80034	0.1169	0.118	0.11261	0.1228	2.84E-03	4.79E-06	4.22E-06	4.61E-06	4.22E-06	2.8541E-03
520751.18	4258693.53	14126.86506	0.10616	0.09681	0.1033	0.09937	2.83E-03	4.35E-06	3.44E-06	4.24E-06	3.41E-06	2.8445E-03
520732.44	4258315.68	14117.04144	0.10417	0.11199	0.10116	0.11663	2.83E-03	4.27E-06	4.01E-06	4.14E-06	4.00E-06	2.8435E-03
520043.3	4259354.55	14106.81781	5.57877	0.13058	8.31975	0.12758	2.83E-03	2.28E-04	4.67E-06	3.41E-04	4.38E-06	3.4032E-03
519874.37	4258772.97	14082.80594	0.3123	0.40479	0.33127	0.39271	2.82E-03	1.28E-05	1.45E-05	1.36E-05	1.35E-05	2.8746E-03
519883.66	4258747.14	14075.29301	0.31674	0.44886	0.33762	0.43423	2.82E-03	1.30E-05	1.61E-05	1.38E-05	1.49E-05	2.8765E-03
520045.69	4258250.68	14075.2646	0.16614	6.78528	0.17518	5.35522	2.82E-03	6.80E-06	2.43E-04	7.17E-06	1.84E-04	3.2593E-03
520704.54	4258542.29	14069.38826	0.11648	0.11556	0.11217	0.11974	2.82E-03	4.77E-06	4.13E-06	4.59E-06	4.11E-06	2.8352E-03
519898.33	4258710.17	14061.21806	0.32564	0.52695	0.34881	0.50795	2.82E-03	1.33E-05	1.88E-05	1.43E-05	1.74E-05	2.8799E-03
520055.28	4258226.75	14044.48202	0.15957	10.04245	0.16802	7.15987	2.81E-03	6.53E-06	3.59E-04	6.88E-06	2.46E-04	3.4310E-03
520110.02	4258122.41	14042.49521	0.13785	10.44651	0.14005	12.04597	2.81E-03	5.64E-06	3.74E-04	5.73E-06	4.14E-04	3.6108E-03
519850.96	4258855.16	14040.68429	0.30668	0.30698	0.32205	0.29854	2.81E-03	1.26E-05	1.10E-05	1.32E-05	1.02E-05	2.8588E-03
520092.85	4259385.29	14036.80581	12.48859	0.13124	10.8918	0.12542	2.81E-03	5.11E-04	4.69E-06	4.46E-04	4.31E-06	3.7774E-03
520704.7	4258475.65	14035.27931	0.11568	0.11719	0.1116	0.12213	2.81E-03	4.74E-06	4.19E-06	4.57E-06	4.19E-06	2.8284E-03
519847.6	4258870.98	14027.11967	0.30735	0.29316	0.32225	0.2851	2.81E-03	1.26E-05	1.05E-05	1.32E-05	9.79E-06	2.8552E-03
520735.1	4258637.28	14026.46689	0.10968	0.10346	0.10607	0.10669	2.81E-03	4.49E-06	3.70E-06	4.34E-06	3.66E-06	2.8252E-03
520744.94	4258665.78	14019.30218	0.10742	0.09976	0.10414	0.10253	2.81E-03	4.40E-06	3.57E-06	4.26E-06	3.52E-06	2.8233E-03
520715.42	4258580.28	14008.34904	0.11427	0.1113	0.11036	0.11521	2.81E-03	4.68E-06	3.98E-06	4.52E-06	3.96E-06	2.8225E-03
520007.92	4258413.3	14005.02339	0.26059	2.63683	0.27533	2.32687	2.80E-03	1.07E-05	9.43E-05	1.13E-05	7.99E-05	3.0008E-03
520707.98	4258458.39	13996.83081	0.11445	0.11644	0.11059	0.12143	2.80E-03	4.69E-06	4.16E-06	4.53E-06	4.17E-06	2.8208E-03
520053.22	4259364.53	13990.65864	7.80478	0.12985	15.58313	0.12641	2.80E-03	3.20E-04	4.64E-06	6.38E-04	4.34E-06	3.7684E-03
519927.12	4258646.05	13987.66337	0.34887	0.72427	0.37905	0.69514	2.80E-03	1.43E-05	2.59E-05	1.55E-05	2.39E-05	2.8808E-03
519857.03	4258827.62	13986.3514	0.3052	0.33319	0.3213	0.3241	2.80E-03	1.25E-05	1.19E-05	1.32E-05	1.11E-05	2.8497E-03
520725.26	4258608.78	13983.95926	0.11195	0.10724	0.10819	0.11092	2.80E-03	4.58E-06	3.84E-06	4.43E-06	3.81E-06	2.8171E-03
520022.41	4258320.21	13976.28843	0.19144	3.58397	0.20017	3.09898	2.80E-03	7.84E-06	1.28E-04

519907.12	4258683.15	13607.63183	0.32501	0.58641	0.3489	0.56469	2.73E-03	1.33E-05	2.10E-05	1.43E-05	1.94E-05	2.7931E-03
520715.53	4258561.31	13601.37858	0.11386	0.11194	0.10987	0.11587	2.72E-03	4.66E-06	4.00E-06	4.50E-06	3.98E-06	2.7410E-03
520110.05	4258112.41	13599.35505	0.13402	10.45566	0.1361	12.00483	2.72E-03	5.49E-06	3.74E-04	5.57E-06	4.12E-04	3.5206E-03
520745.05	4258646.82	13561.76708	0.10701	0.10051	0.10361	0.10351	2.72E-03	4.38E-06	3.60E-06	4.24E-06	3.55E-06	2.7317E-03
519959.73	4258579.87	13552.97295	0.38017	1.10675	0.42426	1.03673	2.71E-03	1.56E-05	3.96E-05	1.74E-05	3.56E-05	2.8223E-03
520754.89	4258675.32	13536.2278	0.10477	0.09692	0.10174	0.09951	2.71E-03	4.29E-06	3.47E-06	4.17E-06	3.42E-06	2.7262E-03
520730.71	4258388.74	13525.76086	0.10682	0.11105	0.10359	0.11539	2.71E-03	4.37E-06	3.97E-06	4.24E-06	3.96E-06	2.7253E-03
520734.21	4258372.08	13518.45524	0.10551	0.11038	0.1023	0.11462	2.71E-03	4.32E-06	3.95E-06	4.19E-06	3.94E-06	2.7236E-03
520004.35	4258421.99	13517.61263	0.26525	2.46118	0.28045	2.18456	2.71E-03	1.09E-05	8.80E-05	1.15E-05	7.50E-05	2.8925E-03
520735.21	4258618.32	13511.02193	0.10925	0.10414	0.10567	0.10761	2.71E-03	4.47E-06	3.72E-06	4.33E-06	3.69E-06	2.7220E-03
519843.98	4258862.39	13499.85382	0.2938	0.29463	0.30775	0.2868	2.70E-03	1.20E-05	1.05E-05	1.26E-05	9.85E-06	2.7485E-03
520009.85	4258365.34	13497.86049	0.21431	2.75852	0.22462	2.44038	2.70E-03	8.77E-06	9.87E-05	9.20E-06	8.38E-05	2.9036E-03
520727.27	4258405.59	13496.58946	0.10813	0.11159	0.10484	0.11609	2.70E-03	4.43E-06	3.99E-06	4.29E-06	3.99E-06	2.7196E-03
520725.37	4258589.82	13484.7708	0.11153	0.10795	0.10781	0.11172	2.70E-03	4.57E-06	3.86E-06	4.41E-06	3.84E-06	2.7172E-03
520443.33	4259374.55	13482.18444	5.64531	0.12587	8.50373	0.12303	2.70E-03	2.31E-04	4.50E-06	3.48E-04	4.22E-06	3.2880E-03
520079.67	4259395.72	13475.5324	16.36914	0.12678	20.03811	0.12202	2.70E-03	6.70E-04	4.53E-06	8.20E-04	4.19E-06	4.1980E-03
519840.47	4258877.85	13467.65591	0.29389	0.28178	0.30734	0.27429	2.70E-03	1.20E-05	1.01E-05	1.26E-05	9.42E-06	2.7412E-03
519847.32	4258846.51	13466.4475	0.29273	0.30827	0.30715	0.30012	2.70E-03	1.20E-05	1.10E-05	1.26E-05	1.03E-05	2.7427E-03
520761.2	4258693.53	13453.67071	0.1033	0.09456	0.10058	0.09701	2.69E-03	4.23E-06	3.38E-06	4.12E-06	3.33E-06	2.7093E-03
520011.11	4258354.84	13444.74143	0.20688	1.82895	0.21655	1.49953	2.69E-03	8.47E-06	1.01E-04	8.87E-06	8.58E-05	2.8968E-03
520715.58	4258551.83	13437.49698	0.11368	0.11221	0.10963	0.11618	2.69E-03	4.65E-06	4.01E-06	4.49E-06	3.99E-06	2.7082E-03
520710.84	4258511.83	13428.18787	0.11441	0.11467	0.11018	0.11905	2.69E-03	4.68E-06	4.10E-06	4.51E-06	4.09E-06	2.7066E-03
520723.92	4258422.64	13424.76196	0.10936	0.11221	0.10601	0.11684	2.69E-03	4.48E-06	4.01E-06	4.34E-06	4.01E-06	2.7053E-03
519969.65	4258560.43	13421.42302	0.38686	1.28331	0.43075	1.18952	2.69E-03	1.58E-05	4.59E-05	1.76E-05	4.08E-05	2.8080E-03
520742.88	4258317.23	13421.42057	0.10182	0.1086	0.09878	0.11301	2.69E-03	4.17E-06	3.88E-06	4.04E-06	3.88E-06	2.7038E-03
520063.61	4258193.35	13420.95286	0.14816	16.52504	0.15526	9.59285	2.69E-03	6.07E-06	5.91E-04	6.36E-06	3.29E-04	3.6206E-03
520029.82	4258277.2	13412.34215	0.16993	4.25475	0.17816	3.6214	2.69E-03	6.96E-06	1.52E-04	7.29E-06	1.24E-04	2.9768E-03
519979.56	4258541	13408.81911	0.39036	1.50209	0.4337	1.37707	2.69E-03	1.60E-05	5.37E-05	1.78E-05	4.73E-05	2.8200E-03
520711.18	4258502.7	13393.6232	0.11417	0.11472	0.10999	0.1192	2.68E-03	4.67E-06	4.10E-06	4.50E-06	4.09E-06	2.6996E-03
520711.52	4258493.57	13390.83229	0.11395	0.11468	0.10981	0.11927	2.68E-03	4.67E-06	4.10E-06	4.50E-06	4.09E-06	2.6991E-03
520053.25	4259384.53	13368.84592	7.97432	0.12518	16.24682	0.12192	2.68E-03	3.27E-04	4.48E-06	6.65E-04	4.19E-06	3.6777E-03
520046.56	4258230.35	13366.11498	0.15611	6.9574	0.1645	5.4729	2.68E-03	6.39E-06	2.49E-04	6.74E-06	1.88E-04	3.1266E-03
520720.65	4258439.94	13354.27753	0.11059	0.11271	0.10705	0.11748	2.67E-03	4.53E-06	4.03E-06	4.38E-06	4.03E-06	2.6914E-03
520012.19	4258344.4	13345.65486	0.19975	2.89047	0.2088	2.55239	2.67E-03	8.18E-06	1.03E-04	8.55E-06	8.76E-05	2.8804E-03
520089.58	4259405.71	13344.56976	13.34105	0.12603	12.14676	0.12073	2.67E-03	5.46E-04	4.51E-06	4.97E-04	4.14E-06	3.7247E-03
520754.94	4258665.84	13335.03518	0.10458	0.09735	0.10147	0.10002	2.67E-03	4.28E-06	3.48E-06	4.15E-06	3.43E-06	2.6859E-03
520100.23	4258122.38	13330.49556	0.13446	15.07372	0.13734	15.96652	2.67E-03	5.51E-06	5.39E-04	5.62E-06	5.48E-04	3.7681E-03
520036.8	4258254.35	13323.21804	0.16218	5.11207	0.1706	4.24758	2.67E-03	6.64E-06	1.83E-04	6.99E-06	1.46E-04	3.0105E-03
520739.34	4258359.68	13321.77189	0.10393	0.10904	0.10074	0.11319	2.67E-03	4.26E-06	3.90E-06	4.12E-06	3.89E-06	2.6840E-03
520745.1	4258637.34	13319.69126	0.10682	0.10083	0.1034	0.10397	2.67E-03	4.37E-06	3.61E-06	4.23E-06	3.57E-06	2.6832E-03
519853.29	4258818.59	13310.46106	0.29019	0.33431	0.30536	0.32548	2.67E-03	1.19E-05	1.20E-05	1.25E-05	1.12E-05	2.7131E-03
519900.89	4258692.25	13308.08877	0.3156	0.55324	0.33769	0.53354	2.67E-03	1.29E-05	1.98E-05	1.38E-05	1.83E-05	2.7300E-03
520005.75	4258387.01	13301.95688	0.22922	2.54609	0.2408	2.26479	2.66E-03	9.39E-06	9.11E-05	9.86E-06	7.78E-05	2.8520E-03
520715.64	4258542.35	13301.06866	0.11349	0.11247	0.10939	0.11648	2.66E-03	4.65E-06	4.02E-06	4.48E-06	4.00E-06	2.6809E-03
520018.88	4258311.68	13295.22742	0.18259	3.31427	0.19059	2.89457	2.66E-03	7.48E-06	1.19E-04	7.80E-06	9.94E-05	2.8958E-03
520714.75	4258476.17	13271.79658	0.11279	0.11387	0.10883	0.11859	2.66E-03	4.62E-06	4.07E-06	4.46E-06	4.07E-06	2.6751E-03
519885.46	4258727.38	13262.50169	0.30418	0.47176	0.32444	0.45597	2.66E-03	1.25E-05	1.69E-05	1.33E-05	1.57E-05	2.7143E-03
520725.42	4258580.33	13260.00173	0.11133	0.1083	0.10761	0.11207	2.66E-03	4.56E-06	3.87E-06	4.41E-06	3.85E-06	2.6722E-03
520735.26	4258608.84	13258.15945	0.10905	0.10449	0.1055	0.10804	2.66E-03	4.46E-06	3.74E-06	4.32E-06	3.71E-06	2.6714E-03
519927.12	4258636.77	13252.63084	0.33805	0.73424	0.36787	0.7053	2.65E-03	1.38E-05	2.63E-05	1.51E-05	2.42E-05	2.7334E-03
520742.79	4258342.87	13252.30622	0.10261	0.10832	0.09948	0.11246	2.65E-03	4.20E-06	3.87E-06	4.07E-06	3.86E-06	2.6700E-03
520718.07	4258459.03	13236.63954	0.11161	0.11309	0.10786	0.11788	2.65E-03	4.57E-06	4.05E-06	4.42E-06	4.05E-06	2.6679E-03
519870.64	4258763.99	13226.05349	0.29537	0.40485	0.31286	0.39295	2.65E-03	1.21E-05	1.45E-05	1.28E-05	1.35E-05	2.7016E-03
520000.29	4258456.11	13220.66004	0.30412	2.25667	0.32419	2.00938	2.65E-03	1.25E-05	8.07E-05	1.33E-05	6.90E-05	2.8230E-03
520013.14	4258334.02	13212.90196	0.19294	2.94594	0.20147	2.59929	2.65E-03	7.90E-06	1.05E-04	8.25E-06	8.92E-05	2.8568E-03
520715.69	4258532.87	13194.53009	0.11332	0.11268	0.10918	0.11676	2.64E-03	4.64E-06	4.03E-06	4.47E-06	4.01E-06	2.6595E-03
520043.35	4259384.55	13184.91109	5.70134	0.12362	8.59936	0.12084	2.64E-03	2.33E-04	4.42E-06	3.52E-04	4.15E-06	3.2346E-03
520737.59	4258380.94	13182.42671	0.10495	0.10898	0.10175	0.11319	2.64E-03	4.30E-06	3.90E-06	4.17E-06	3.89E-06	2.6562E-03
520054.39	4258207.14	13180.8256	0.14956	9.54213	0.15734	6.92649	2.64E-03	6.12E-06	3.41E-04	6.44E-06	2.38E-04	3.2313E-03
520079.68	4259405.72	13176.50391	16.11421	0.12454	19.76931	0.1199	2.64E-03	6.60E-04	4.45E-06	8.09E-04	4.12E-06	4.1166E-03
519861.14	4258789.3	13161.34504	0.28995	0.36735	0.30611	0.35726	2.64E-03	1.19E-05	1.31E-05	1.25E-05	1.23E-05	2.6855E-03
520734.11	4258397.66	13151.86666	0.10618	0.10972	0.103	0.11402	2.63E-03	4.35E-06	3.92E-06	4.22E-06	3.91E-06	2.6502E-03
519917.12	4258655.32	13142.27325	0.3266	0.65889	0.35232	0.63455	2.63E-03	1.34E-05	2.36E-05	1.44E-05	2.18E-05	2.7051E-03
519989.44	4258511.86	13134.84945	0.37127	1.80311	0.40832	1.62855	2.63E-03	1.52E-05	6.45E-05	1.67E-05	5.59E-05	2.7828E-03
520030.38	4258266.99	13126.57486	0.16463	4.30797	0.17266	3.66458	2.63E-03	6.74E-06	1.54E-04	7.07E-06	1.26E-04	2.9225E-03
520754.99	4258656.36	13120.78441	0.1044	0.09773	0.10123	0.1005	2.63E-03	4.27E-06	3.50E-06	4.14E-06	3.45E-06	2.6436E-03
520715.74	4258523.39	13117.85351	0.11316	0.11289	0.109	0.11706	2.63E-03	4.63E-06	4.04E-06	4.46E-06	4.02E-06	2.6442E-03
519879.86	4258738	13104.46814	0.29827	0.44779	0.31745	0.43338	2.62E-03	1.22E-05	1.60E-05	1.30E-05	1.49E-05	2.6805E-03
520730.69	4258414.57	13102.65092	0.10745	0.11024	0.10418	0.11472	2.62E-03	4.40E-06	3.94E-06	4.27E-06	3.94E-06	2.6405E-03
520019.75	4258301.33	13093.38073	0.17672	3.37395	0.18442	2.94481	2.62E-03	7.24E-06	1.21E-04	7.55E-06	1.01E-04	2.8587E-03
520745.16	4258627.86	13073.38184	0.10662	0.10118	0.10321	0.10443	2.62E-03	4.37E-06	3.62E-06	4.23E-06	3.59E-06	2.6339E-03
520764.83	4258684.86	13072.78467	0.10215	0.0942	0.09939	0.09664	2.62E-03	4.18E-06	3.37E-06	4.07E-06	3.32E-06	2.6329E-03
520725.48	4258570.85	13055.78547	0.11114	0.10861	0.10739	0.1124	2.61E-03	4.55E-06	3.88E-06	4.40E-06	3.86E-06	2.6313E-03
519856.17	4258801.44	13054.30318	0.28609	0.35052	0.30153	0.34115	2.61E-03	1.17E-05	1.25E-05	1.23E-05	1.17E-05	2.6626E-03
520013.97	4258323.69	13051.66667	0.18646	2.99478	0.19453	2.64122	2.61E-03	7.63E-06	1.07E-04	7.96E-06	9.07E-05	2.8272E-03
520063.85	4258183.26	13050.78713	0.14389	16.70083	0.15062	9.66763	2.61E-03	5.89E-06	5.97E-04	6.17E-06	3.32E-04	3.5549E-03
520090.41	4258132.35	13044.06622	0.13471	25.66983	0.13843	17.09441	2.61E-03	5.52E-06	9.18E-04	5.67E-06	5.87E-04	4.1285E-03
520089.6	4259415.71	13043.89012	13.20119	0.1238	12.01849	0.11864	2.61E-03	5.41E-04	4.43E-06	4.92E-04	4.07E-06	3.6533E-03
520000.77	4258430.68	13029.4315	0.26983	2.30145	0.28548	2.05423	2.61E-03	1.10E-05	8.23E-05	1.17E-05	7.05E-05	2.7849E-03
520727.36	4258431.7	13024.77862	0.10863	0.11083	0.10525	0.11543	2.61E-03	4.45E-06	3.96E-06	4.31E-06	3.96E-06	2.6251E-03
520046.94	4258220.2	13023.90875	0.15146	7.03249	0.15954	5.52358	2.61E-03	6.20E-06	2.52E-04	6.53E-06	1.90E-04	3.0621E-03
520037.34	4258244.14	13015.14398	0.15728	5.18007	0.16547	4.29917	2.61E-03	6.44E-06	1.85E-04	6.78E-06	1.48E-04	2.9526E-03
520735.32	4258599.35	13013.94234	0.10885	0.10483	0.10533	0.10843	2.61E-03	4.46E-06	3.75E-06	4.31E-06	3.72E-06	2.6225E-03
520742.82	4258368.8	12996.81183	0.10336	0.10771	0.10021	0.1118	2.60E-03	4.23E-06	3.85E-06	4.10E-06	3.84E-06	2.6188E-03
520049.96	4259394.95	12996.74451	7.20017	0.12234	12.75539	0.11933	2.60E-03	2.95E-04	4.38E-06	5.22E-04	4.10E-06	3.4283E-03
519894.59	4258701.16	12989.56257	0.30608	0.52283	0.32671	0.50485	2.60E-03	1.25E-05	1.87E-05	1.34E-05	1.73E-05	2.6633E-03
519907.12	4258673.87	12987.38325	0.31558	0.59486	0.33841	0.57362	2.60E-03	1.29E-05	2.13E-05	1.39E-05	1.97E-05	2.6686E-03
519939.85	4258609.05	12966.42429	0.34797	0.8582	0.38328	0.81876	2.60E-03	1.42E-05	3.07E-05	1.57E-05	2.81E-05	2.6854E-03
519840.37	4258853.79	12962.90919	0.28086	0.29579	0.29398	0.28824	2.60E-03	1.15E-05	1.06E-05	1.20E-05	9.90E-06	2.6400E-03
520746.24	4258351.93	12960.62073	0.10209	0.10704	0.09896	0.11109	2.60E-03	4.18E-06	3.83E-06	4.05E-06	3.81E-06	2.6114E-03
520724.13	4258449.06	12960.36727	0.10981	0.11134	0.10622	0.11604	2.60E-03	4.50E-06	3.98E-06	4.35E-06	3.98E-06	2.6123E-03
519833.48	4258885.03	12960.27665	0.28179	0.27104	0.29393	0.26406	2.60E-03	1.15E-05	9.69E-06	1.20E-05	9.07E-06	2.6378E-03
520718.13	4258485.06	12959.24161	0.11195	0.11268	0.10797	0.11724	2.60E-03	4.58E-06	4.03E-06	4.42E-06	4.02E-06	2.6123E-03
519836.75	4258869	12955.94208	0.28087	0.28317	0.2935	0.27591	2.59E-03	1.15E-05	1.01E-05	1.20E-05	9.47E-06	2.6377E-03
520100.26	4258112.38	12933.32263	0.13082	15.08266	0.13351	16.12367	2.59E-03	5.36E-06	5.39E-04	5.47E-06	5.54E-04	3.6935E-03
520106.08	4258102.11	12910.53662	0.12906	11.99693	0.13124	11.56271	2.59E-03	5.28E-06	4.29E-04	5.37E-06	4.66E-04	3.4909E-03
520755.05	4258646.88	12895.54311	0.10422	0.09804	0.10101	0.10094	2.58E-03	4.27E-06	3.51E-06	4.14E-06	3.47E-06	2.5979E-03
520764.89	4258675.38	12891.79233	0.102	0.09462	0.09913	0.09712	2.58E-03	4.18E-06	3.38E-06	4.06E-06	3.33E-06	2.5967E-03
520079.7	4259415.72	12888.76323	15.85025	0.12237	19.49327	0.11785	2.58E-03	6.49E-04	4.38E-06	7.98E-04	4.05E-06	4.0367E-03
520721.43	4258467.85	12886.57406	0.11081	0.11189	0.10702	0.11655	2.58E-03	4.54E-06	4.00E-06	4.38E-06	4.00E-06	2.5976E-03
519843.68	4258837.86	12884.04621	0.27942	0.30926	0.29302	0.30139	2.58E-03	1.14E-05	1.11E-05	1.20E-05	1.03E-05	2.6251E-03
520020.53	4258291.03	12876.4942	0.17113	1.42831	0.1786	2.98985	2.58E-03	7.01E-06	1.23E-04	7.31E-06	1.03E-04	2.8183E-03
520725.53	4258561.37	12876.3508	0.11096	0.10896	0.10717	0.11275	2.58E-03	4.54E-06	3.90E-06	4.39E-06	3.87E-06	2.5954E-03
520000.91	4258406.07	12836.04019	0.24184	2.32534	0.25454	2.08075	2.57E-03	9.90E-06	8.32E-05	1.04E-05	7.14E-05	2.7455E-03
520054.73	4258197.01	12831.59383	0.14523	9.65938	0.15268	6.99027	2.57E-03	5.95E-06	3.46E-04	6.25E-06	2.40E-04	3.1674E-03
520740.97	4258389.81	12831.1545	0.10433	0.10773	0.10119	0.11191	2.57E-03	4.27E-06	3.85E-06	4.14E-06	3.84E-06	2.5857E-03
520745.21	4258618.37	12827.66543	0.10643	0.10152	0.10305	0.10487	2.57E-03	4.36E-06	3.63E-06	4.22E-06	3.60E-06	2.5847E-03
519949.77	4258589.61	12826.62717	0.35715	0.97771	0.39649	0.92395	2.57E-03	1.46E-05	3.50E-05	1.62E-05	3.17E-05	2.6663E-03
520040.06	4259394.96	12823.37819	5.21773	0.12085	7.47668	0.11828	2.57E-03	2.14E-04	4.32E-06	3.06E-04	4.06E-06	3.0962E-03
519864.08	4258772.27	12815.50683	0.28518	0.38545	0.30136	0.37461	2.57E-03	1.17E-05	1.38E-05	1.23E-05	1.29E-05	2.6171E-03
520735.37	4258589.87	12783.93522	0.10867	0.10514	0.10516	0.10878	2.56E-03	4.45E-06	3.76E-06	4.31E-06	3.73E-06	2.5764E-03
520737.5	4258406.59	12782.38221	0.10554	0.10838	0.10238	0.11267	2.56E-03	4.32E-06	3.88E-06	4.19E-06	3.87E-06	2.5761E-03
519996.63	4258465	12781.94091	0.30942	2.1098	0.33065	1.88733	2.56E-03	1.27E-05	7.55E-05	1.35E-05	6.48E-05	2.7262E-03
520089.62	4259425.71	12753.94116	13.03529	0.12163	11.8887	0.11661	2.55E-03	5.34E-04	4.35E-06	4.87E-04	4.00E-06	3.5830E-03
519873.42	4258746.56	12747.44398	0.28887	0.42517	0.30635	0.41225	2.55E-03	1.18E-05	1.52E-05	1.25E-05	1.42E-05	2.6066E-03
520725.58	4258551.89	12722.11779	0.11078	0.10925	0.10694	0.11306	2.55E-03	4.54E-06	3.91E-06	4.38E-06	3.88E-06	2.5645E-03
520734.11	4258423.56	12713.02113	0.10673	0.10894	0.10348	0.11339	2.55E-03	4.37E-06	3.90E-06	4.24E-06	3.89E-06	2.5624E-03
520049.98	4259404.95	12712.62167	7.31155	0.1202	12.97143	0.11727	2.55E-03	2.99E-04	4.30E-06	5.31E-04	4.03E-06	3.3847E-03
520720.83	4258512.21	12711.78671	0.11154	0.11153	0.10748	0.11573	2.55E-03	4.57E-06	3.99E-06	4.40E-06	3.97E-06	2.5626E-03
520037.84	4258233.95	12711.42201	0.15262	5.24363	0.1606	4.34703	2.55E-03	6.25E-06	1.88E-04	6.58E-06	1.49E-04	2.8953E-03
519979.52	4258531.3	12699.51655	0.37207	1.52051	0.41104	1.39331	2.54E-03	1.52E-05	5.44E-05	1.68E-05	4.78E-05	2.6775E-03
520764.94	4258665.9	12697.6504	0.10184	0.095	0.09889	0.09759	2.54E-03	4.17E-06	3.40E-06	4.05E-06	3.35E-06	2.5578E-03
519989.4	4258502.16	12692.8227	0.35279	1.82147	0.38543	1.64454	2.54E-03	1.44E-05	6.52E-05	1.58E-05	5.65E-05	2.6937E-03
520064.08	4258173.18	12690.69499	0.13982	16.86979	0.14622	9.72724	2.54E-03	5.72E-06	6.03E-04	5.99E-06	3.34E-04	3.4906E-03
519959.69	4258570.17	12683.05881	0.36479	1.12301	0.40466	1.05109	2.54E-03	1.49E-05	4.02E-05	1.66E-05	3.61E-05	2.6477E-03
520721.17	4258503.08	12681.36046	0.11132	0.11155	0.1073	0.11584	2.54E-03	4.56E-06	3.99E-06	4.39E-06	3.98E-06	2.5565E-03
520721.51	4258493.94	12678.48547	0.11111	0.11155	0.10713	0.11594	2.54E-03	4.55E-06	3.99E-06	4.39E-06	3.98E-06	2.5559E-03
520746.29	4258377.93	12664.02733	0.10277	0.10641	0.09967	0.11046	2.54E-03	4.21E-06	3.81E-06	4.08E-06	3.79E-06	2.5520E-03
520755.1	4258637.39	12663.80033	0.10405	0.09834	0.10082	0.10137	2.54E-03	4.26E-06	3.52E-06	4.13E-06	3.48E-06	2.5515E-03
520749.7	4258361	12661.82883	0.10156	0.10573	0.09845	0.10973	2.54E-03	4.16E-06	3.78E-06	4.03E-06	3.77E-06	2.5514E-03
520090.44	4258122.35	12661.29794	0.13104	25.70709	0.13455	17.29996	2.54E-03	5.37E-06	9.20E-04	5.51E-06	5.94E-04	4.0599E-03
520021.22	4258280.75	12646.67152	0.16581	3.47589	0.17307	3.0309	2.53E-03	6.79E-06	1.24E-04	7.09E-06	1.04E-04	2.7749E-03
520730.81	4258440.75	12638.73373	0.10788	0.10952	0.10447	0.11407	2.53E-03	4.42E-06	3.92E-06	4.28E-06	3.92E-06	2.5476E-03
519849.54	4258809.56	12630.97046	0.27591	0.33509	0.29021	0.32644	2.53E-03	1.13E-05	1.20E-05	1.19E-05	1.12E-05	2.5759E-03
519888.22	4258709.92	12628.90984	0.29574	0.49506	0.31596	0.47803	2.53E-03	1.21E-05	1.77E-05	1.29E-05	1.64E-05	2.5883E-03
520079.72	4259425.72	12617.15597	15.41232	0.1203	19.24512	0.11588	2.53E-03	6.31E-04	4.30E-06	7.88E-04	3.98E-06	3.9541E-03
519969.61	4258550.74	12607.01906	0.36988	1.2994	0.40935	1.20492	2.52E-03	1.51E-05	4.65E-05	1.68E-05	4.14E-05	2.6445E-03
520753.17	4258344.24	12604.90303	0.10028	0.10509	0.09722	0.10905	2.52E-03	4.11E-06	3.76E-06	3.98E-06	3.74E-06	2.5399E-03
520027.92	4258258.01	12601.08256	0.15829	4.04527	0.16581	3.47211	2.52E-03	6.48E-06	1.45E-04	6.79E-06	1.19E-04	2.8007E-03
520725.64	4258542.41	12594.2987	0.11061	0.1095	0.10672	0.11334	2.52E-03	4.53E-06	3.92E-06	4.37E-06	3.89E-06	2.5389E-03
520727.6	4258458.19	12591.43857	0.10901	0.11009	0.10538	0.11468	2.52E-03	4.46E-06	3.94E-06	4.31E-06	3.94E-06	2.5383E-03
520745.26	4258608.89	12587.01551	0.10625	0.10185	0.1029	0.10528	2.52E-03	4.35E-06	3.64E-06	4.21E-06	3.61E-06	2.5365E-03
520735.42	4258580.39	12570.67549	0.1085	0.10538	0.10496	0.10905	2.52E-03	4.44E-06	3.77E-06	4.30E-06	3.74E-06	2.5337E-03
520724.79	4258476.67	12567.99218	0.11	0.11072	0.10618	0.11523	2.52E-03	4.50E-06	3.96E-06	4.35E-06	3.96E-06	2.5337E-03
520045.43	4258210.84	12565.39333	0.14637	6.64334	0.15414	5.28473	2.52E-03	5.99E-06	2.38E-04	6.31E-06	1.81E-04	2.9477E-03
519997.2	4258439.37	12558.69888	0.27435	2.15685	0.29049	1.93475	2.52E-03	1.12E-05	7.71E-05	1.19E-05	6.64E-05	2.6817E-03
520040.08	4259404.96	12547.06365	5.27491	0.11875	7.55354	0.11625	2.51E-03	2.16E-04	4.25E-06	3.08E-04	3.99E-06	3.0462E-03
520106.11	4258092.11	12535.65858	0.12569	11.99699	0.1277	13.72723	2.51E-03	5.15E-06	4.29E-04	5.23E

520728.15	4258485.5	12279.09501	0.10919	0.1096	0.10536	0.11396	2.46E-03	4.47E-06	3.92E-06	4.31E-06	3.91E-06	2.4757E-03
520040.1	4259414.96	12278.77625	5.34353	0.11672	7.63229	0.11427	2.46E-03	2.19E-04	4.17E-06	3.12E-04	3.92E-06	2.9984E-03
520765.05	4258646.93	12275.72801	0.10153	0.09564	0.09849	0.09845	2.46E-03	4.16E-06	3.42E-06	4.03E-06	3.38E-06	2.4734E-03
520734.26	4258449.8	12275.54506	0.10713	0.10825	0.10367	0.11274	2.46E-03	4.39E-06	3.87E-06	4.24E-06	3.87E-06	2.4747E-03
520010.97	4258304.96	12257.93404	0.17221	2.82106	0.17925	2.5077	2.45E-03	7.05E-06	1.01E-04	7.34E-06	8.61E-05	2.6562E-03
520045.84	4258200.68	12254.68573	0.14222	6.72003	0.14973	5.33613	2.45E-03	5.82E-06	2.40E-04	6.13E-06	1.83E-04	2.8897E-03
520731.07	4258467.32	12249.48212	0.10819	0.10884	0.10454	0.1134	2.45E-03	4.43E-06	3.90E-06	4.28E-06	3.89E-06	2.4696E-03
519998.56	4258379.99	12234.75779	0.21419	2.24553	0.22437	2.02286	2.45E-03	8.77E-06	8.03E-05	9.19E-06	6.94E-05	2.6179E-03
519897.12	4258683.15	12233.26188	0.29648	0.54693	0.3164	0.52863	2.45E-03	1.21E-05	1.96E-05	1.30E-05	1.81E-05	2.5127E-03
520089.65	4259445.71	12212.86549	12.59876	0.11754	11.63442	0.11276	2.45E-03	5.16E-04	4.20E-06	4.76E-04	3.87E-06	3.4461E-03
520735.53	4258561.43	12208.31623	0.10816	0.10609	0.10456	0.10974	2.44E-03	4.43E-06	3.79E-06	4.28E-06	3.77E-06	2.4612E-03
520755.21	4258618.43	12195.04043	0.10371	0.09896	0.10052	0.10221	2.44E-03	4.25E-06	3.54E-06	4.12E-06	3.51E-06	2.4576E-03
519876.07	4258728.86	12181.82002	0.28142	0.4457	0.29871	0.4318	2.44E-03	1.15E-05	1.59E-05	1.22E-05	1.48E-05	2.4941E-03
520005.53	4258327.18	12180.25534	0.18167	2.54908	0.18933	2.28334	2.44E-03	7.44E-06	9.12E-05	7.75E-06	7.84E-05	2.6240E-03
519939.81	4258599.35	12176.30281	0.33603	0.87106	0.37019	0.82992	2.44E-03	1.38E-05	3.12E-05	1.52E-05	2.85E-05	2.5270E-03
520050.01	4259424.95	12171.18381	7.58902	0.11611	13.41094	0.11332	2.44E-03	3.11E-04	4.15E-06	5.49E-04	3.89E-06	3.3053E-03
520055.34	4258176.79	12167.95247	0.1372	9.85915	0.14402	7.09809	2.44E-03	5.62E-06	3.53E-04	5.90E-06	2.44E-04	3.0446E-03
520745.37	4258589.93	12136.97217	0.10592	0.10243	0.1026	0.10595	2.43E-03	4.34E-06	3.66E-06	4.20E-06	3.64E-06	2.4464E-03
520747.72	4258407.54	12133.34008	0.10309	0.10518	0.10002	0.10933	2.43E-03	4.22E-06	3.76E-06	4.10E-06	3.75E-06	2.4457E-03
519979.48	4258521.6	12123.42309	0.35485	1.53755	0.38981	1.40854	2.43E-03	1.45E-05	5.50E-05	1.60E-05	4.84E-05	2.5617E-03
519993.62	4258448.05	12117.00303	0.2788	2.02518	0.29555	1.82435	2.43E-03	1.14E-05	7.24E-05	1.21E-05	6.26E-05	2.5852E-03
520011.84	4258294.61	12093.41459	0.16691	2.86681	0.17363	2.54735	2.42E-03	6.83E-06	1.03E-04	7.11E-06	8.75E-05	2.6258E-03
520079.75	4259445.72	12081.47121	15.79727	0.11632	18.72106	0.1121	2.42E-03	6.47E-04	4.16E-06	7.67E-04	3.85E-06	3.8408E-03
519989.32	4258482.77	12079.85437	0.31952	1.85285	0.34446	1.67211	2.42E-03	1.31E-05	6.63E-05	1.41E-05	5.74E-05	2.5700E-03
520029.12	4258237.55	12079.63051	0.14918	4.1485	0.15641	3.55536	2.42E-03	6.11E-06	1.48E-04	6.40E-06	1.22E-04	2.7021E-03
520735.58	4258551.94	12062.82494	0.10801	0.10632	0.10434	0.10999	2.42E-03	4.42E-06	3.80E-06	4.27E-06	3.78E-06	2.4320E-03
520744.3	4258424.43	12054.89005	0.1042	0.10582	0.10106	0.11008	2.41E-03	4.27E-06	3.79E-06	4.14E-06	3.78E-06	2.4301E-03
520765.1	4258637.45	12054.53176	0.10138	0.09593	0.09833	0.09887	2.41E-03	4.15E-06	3.43E-06	4.03E-06	3.39E-06	2.4291E-03
520730.82	4258512.58	12050.9731	0.10878	0.10846	0.10489	0.11248	2.41E-03	4.45E-06	3.88E-06	4.29E-06	3.86E-06	2.4299E-03
520760.02	4258362.25	12043.50338	0.09925	0.10265	0.09626	0.10649	2.41E-03	4.06E-06	3.67E-06	3.94E-06	3.66E-06	2.4272E-03
519949.73	4258579.91	12035.94659	0.34403	0.99217	0.38027	0.93661	2.41E-03	1.41E-05	3.55E-05	1.56E-05	3.22E-05	2.5077E-03
520756.6	4258379.12	12034.98197	0.10042	0.10327	0.09742	0.10718	2.41E-03	4.11E-06	3.69E-06	3.99E-06	3.68E-06	2.4256E-03
519860.38	4258763.36	12033.15617	0.2704	0.38503	0.2853	0.37436	2.41E-03	1.11E-05	1.38E-05	1.17E-05	1.29E-05	2.4592E-03
519822.8	4258883.48	12031.95823	0.25909	0.26212	0.26951	0.25579	2.41E-03	1.06E-05	9.38E-06	1.10E-05	8.78E-06	2.4494E-03
520731.16	4258503.45	12023.42572	0.10859	0.10845	0.10471	0.11257	2.41E-03	4.45E-06	3.88E-06	4.29E-06	3.86E-06	2.4243E-03
520731.51	4258494.32	12021.08317	0.10839	0.10848	0.10456	0.11269	2.41E-03	4.44E-06	3.88E-06	4.28E-06	3.87E-06	2.4239E-03
520040.11	4259424.96	12019.83999	5.41791	0.11475	7.71109	0.11235	2.41E-03	2.22E-04	4.10E-06	3.16E-04	3.86E-06	2.9527E-03
519826.08	4258867.46	12990.63807	0.25803	0.27332	0.26894	0.26678	2.40E-03	1.06E-05	9.78E-06	1.10E-05	9.16E-06	2.4418E-03
520753.24	4258396.18	11986.87575	0.10156	0.10382	0.09856	0.10784	2.40E-03	4.16E-06	3.71E-06	4.04E-06	3.70E-06	2.4161E-03
519890.86	4258692.16	11980.2727	0.28815	0.51762	0.30677	0.50077	2.40E-03	1.18E-05	1.85E-05	1.26E-05	1.72E-05	2.4593E-03
519993.89	4258423.14	11979.06136	0.24956	2.0554	0.26293	1.85559	2.40E-03	1.02E-05	7.35E-05	1.08E-05	6.37E-05	2.5572E-03
520740.96	4258441.53	11977.27258	0.10528	0.10645	0.102	0.1108	2.40E-03	4.31E-06	3.81E-06	4.18E-06	3.80E-06	2.4148E-03
520036.47	4258214.54	11970.51088	0.14315	5.01769	0.15057	4.1931	2.40E-03	5.86E-06	1.79E-04	6.16E-06	1.44E-04	2.7327E-03
520755.26	4258608.95	11965.70498	0.10355	0.09928	0.1004	0.1026	2.40E-03	4.24E-06	3.55E-06	4.11E-06	3.52E-06	2.4117E-03
519845.8	4258800.53	11955.20778	0.26243	0.33548	0.27579	0.32699	2.39E-03	1.07E-05	1.20E-05	1.13E-05	1.12E-05	2.4395E-03
520107.29	4258074.19	11954.78216	0.12027	11.53685	0.12202	13.28157	2.39E-03	4.92E-06	4.13E-04	5.00E-06	4.56E-04	3.2727E-03
520046.23	4258190.53	11953.07557	0.13827	6.79314	0.14553	5.38525	2.39E-03	5.66E-06	2.43E-04	5.96E-06	1.85E-04	2.8332E-03
520063.54	4258153.43	11946.84478	0.13191	16.02437	0.13786	9.43431	2.39E-03	5.40E-06	5.73E-04	5.64E-06	3.24E-04	3.3006E-03
520735.64	4258542.46	11942.77135	0.10785	0.10658	0.10414	0.11029	2.39E-03	4.42E-06	3.81E-06	4.26E-06	3.79E-06	2.4080E-03
520096.32	4258092.08	11940.37032	0.1227	18.25557	0.12531	18.34495	2.39E-03	5.02E-06	6.53E-04	5.13E-06	6.30E-04	3.6842E-03
520734.55	4258476.44	11938.22306	0.10737	0.10781	0.10371	0.11213	2.39E-03	4.40E-06	3.86E-06	4.25E-06	3.85E-06	2.4071E-03
520745.42	4258580.45	11935.09625	0.10577	0.10269	0.10243	0.10622	2.39E-03	4.33E-06	3.67E-06	4.19E-06	3.65E-06	2.4060E-03
520737.7	4258458.86	11934.55778	0.10636	0.10708	0.10287	0.11146	2.39E-03	4.35E-06	3.83E-06	4.21E-06	3.83E-06	2.4063E-03
520050.03	4259434.95	11918.96031	7.72817	0.11417	13.66492	0.11144	2.39E-03	3.16E-04	4.08E-06	5.59E-04	3.83E-06	3.2708E-03
520012.62	4258284.3	11913.96795	0.16185	2.90839	0.16831	2.58291	2.39E-03	6.63E-06	1.04E-04	6.89E-06	8.87E-05	2.5922E-03
519969.56	4258541.04	11908.73189	0.35359	1.31493	0.38941	1.21897	2.38E-03	1.45E-05	4.70E-05	1.59E-05	4.18E-05	2.5042E-03
520019.04	4258261.68	11906.96371	0.15451	3.3041	0.16106	2.9022	2.38E-03	6.33E-06	1.18E-04	6.59E-06	9.96E-05	2.6153E-03
519829.31	4258851.31	11903.54626	0.26554	0.28504	0.26784	0.2783	2.38E-03	1.05E-05	1.02E-05	1.10E-05	9.55E-06	2.4251E-03
520084.71	4259456.12	11881.74333	14.1073	0.11492	14.22784	0.11053	2.38E-03	5.78E-04	4.11E-06	5.83E-04	3.79E-06	3.5475E-03
519869.66	4258737.5	11873.47415	0.27288	0.42364	0.28903	0.41093	2.38E-03	1.12E-05	1.52E-05	1.18E-05	1.41E-05	2.4301E-03
519833.14	4258836.61	11867.27345	0.25664	0.29735	0.26844	0.29028	2.38E-03	1.05E-05	1.06E-05	1.10E-05	9.97E-06	2.4187E-03
519959.65	4258560.47	11864.04826	0.34905	1.13651	0.38439	1.06443	2.38E-03	1.43E-05	4.07E-05	1.57E-05	3.65E-05	2.4832E-03
520055.61	4258166.69	11852.96095	0.13345	9.9536	0.14	7.14562	2.37E-03	5.46E-06	3.56E-04	5.73E-06	2.45E-04	2.9863E-03
520735.69	4258532.98	11849.73804	0.10771	0.10679	0.10396	0.11054	2.37E-03	4.41E-06	3.82E-06	4.26E-06	3.79E-06	2.3894E-03
519917.12	4258636.77	11844.39598	0.30782	0.67588	0.33314	0.65201	2.37E-03	1.26E-05	2.42E-05	1.36E-05	2.24E-05	2.4448E-03
520765.16	4258627.97	11830.2323	0.10123	0.09621	0.0982	0.09926	2.37E-03	4.14E-06	3.44E-06	4.02E-06	3.41E-06	2.3842E-03
519993.89	4258398.88	11823.69401	0.22528	2.07028	0.23627	1.87393	2.37E-03	9.22E-06	7.41E-05	8.67E-06	6.43E-05	2.5251E-03
520029.64	4258227.34	11819.04909	0.14493	4.1947	0.15204	3.59212	2.37E-03	5.93E-06	1.50E-04	6.23E-06	1.23E-04	2.6524E-03
520751.09	4258416.4	11791.58106	0.10246	0.1039	0.09939	0.10805	2.36E-03	4.20E-06	3.72E-06	4.07E-06	3.71E-06	2.3771E-03
520735.74	4258523.5	11783.27108	0.10758	0.1069	0.10379	0.11073	2.36E-03	4.40E-06	3.82E-06	4.25E-06	3.80E-06	2.3760E-03
519907.12	4258655.32	11780.79762	0.29794	0.61008	0.31971	0.58999	2.36E-03	1.22E-05	2.18E-05	1.31E-05	2.03E-05	2.4266E-03
520040.13	4259434.96	11770.74179	5.49993	0.11284	7.79856	0.11049	2.36E-03	2.25E-04	4.04E-06	3.19E-04	3.79E-06	2.9096E-03
520745.48	4258570.96	11751.98623	0.10561	0.10299	0.10224	0.10652	2.35E-03	4.32E-06	3.68E-06	4.19E-06	3.66E-06	2.3693E-03
520763.45	4258371.26	11748.21916	0.0987	0.10147	0.09577	0.10526	2.35E-03	4.04E-06	3.63E-06	3.92E-06	3.61E-06	2.3679E-03
520074.81	4259456.13	11746.51704	14.42934	0.11358	25.77511	0.10977	2.35E-03	5.91E-04	4.06E-06	1.06E-03	3.77E-06	4.0064E-03
520755.32	4258599.47	11745.45988	0.1034	0.09957	0.10027	0.10294	2.35E-03	4.23E-06	3.56E-06	4.11E-06	3.53E-06	2.3676E-03
520097.47	4258084.16	11738.06705	0.12055	17.26476	0.12298	17.8146	2.35E-03	4.94E-06	6.18E-04	5.04E-06	6.12E-04	3.5898E-03
520013.32	4258274.02	11722.50018	0.15701	2.9455	0.16327	2.61488	2.35E-03	6.43E-06	1.05E-04	6.68E-06	8.98E-05	2.5558E-03
519990.05	4258456.74	11716.47688	0.28318	1.90516	0.30079	1.7227	2.35E-03	1.16E-05	6.81E-05	1.23E-05	5.91E-05	2.4976E-03
520760.05	4258388.18	11707.82395	0.0998	0.1021	0.0969	0.10596	2.34E-03	4.09E-06	3.65E-06	3.97E-06	3.64E-06	2.3600E-03
519836.4	4258820.55	11707.00572	0.25461	0.31049	0.26678	0.30301	2.34E-03	1.04E-05	1.11E-05	1.09E-05	1.04E-05	2.3873E-03
520747.7	4258433.35	11705.48582	0.1035	0.10462	0.10035	0.10884	2.34E-03	4.24E-06	3.74E-06	4.11E-06	3.74E-06	2.3600E-03
519884.52	4258701	11704.51647	0.27958	0.4096	0.29732	0.47487	2.34E-03	1.14E-05	1.75E-05	1.22E-05	1.63E-05	2.4015E-03
520036.96	4258204.35	11696.79983	0.1392	5.07521	0.14642	4.23562	2.34E-03	5.70E-06	1.82E-04	6.00E-06	1.45E-04	2.6811E-03
520019.75	4258251.4	11691.25483	0.15006	3.35222	0.15652	2.94191	2.34E-03	6.14E-06	1.20E-04	6.41E-06	1.01E-04	2.5748E-03
519853.81	4258771.61	11685.86542	0.26156	0.36724	0.27541	0.35745	2.34E-03	1.07E-05	1.31E-05	1.13E-05	1.23E-05	2.3876E-03
519897.12	4258673.87	11681.57349	0.28844	0.55387	0.30758	0.53619	2.34E-03	1.18E-05	1.98E-05	1.26E-05	1.84E-05	2.4020E-03
520050.05	4259444.95	11674.51042	7.86108	0.1123	13.94759	0.10964	2.34E-03	3.22E-04	4.02E-06	5.71E-04	3.76E-06	3.2387E-03
519979.44	4258511.9	11670.54364	0.33868	1.55357	0.37008	1.42282	2.34E-03	1.39E-05	5.56E-05	1.52E-05	4.88E-05	2.4706E-03
520738.02	4258485.57	11659.7419	0.10656	0.1067	0.10289	0.11086	2.34E-03	4.36E-06	3.82E-06	4.21E-06	3.81E-06	2.3512E-03
520046.59	4258180.4	11659.59405	0.13452	6.86117	0.14151	5.4277	2.33E-03	5.51E-06	2.45E-04	5.79E-06	1.86E-04	2.7780E-03
520756.72	4258405.31	11647.61068	0.10094	0.10253	0.09796	0.10655	2.33E-03	4.13E-06	3.67E-06	4.01E-06	3.66E-06	2.3481E-03
520744.38	4258450.51	11639.39312	0.10454	0.10529	0.10123	0.10956	2.33E-03	4.28E-06	3.77E-06	4.14E-06	3.76E-06	2.3469E-03
520063.76	4258143.35	11631.13195	0.1284	16.22394	0.13409	9.4817	2.33E-03	5.26E-06	5.80E-04	5.49E-06	3.26E-04	3.2459E-03
520084.73	4259466.12	11630.84794	13.77693	0.11304	13.98689	0.10876	2.33E-03	5.64E-04	4.04E-06	5.73E-04	3.73E-06	3.4738E-03
520741.15	4258467.91	11617.89946	0.10556	0.10599	0.10206	0.11023	2.33E-03	4.32E-06	3.79E-06	4.18E-06	3.78E-06	2.3427E-03
519848.63	4258783.24	11616.02611	0.25798	0.35085	0.27128	0.34179	2.33E-03	1.06E-05	1.25E-05	1.11E-05	1.17E-05	2.3722E-03
520107.32	4258064.19	11614.82128	0.11726	11.54345	0.1189	13.28956	2.33E-03	4.80E-06	4.13E-04	4.87E-06	4.56E-04	3.2048E-03
520765.21	4258618.49	11607.65013	0.10109	0.0965	0.09808	0.09965	2.32E-03	4.14E-06	3.45E-06	4.02E-06	3.42E-06	2.3396E-03
520745.53	4258561.48	11591.58988	0.10546	0.1033	0.10205	0.10682	2.32E-03	4.32E-06	3.69E-06	4.18E-06	3.67E-06	2.3372E-03
519819.13	4258874.75	11572.79623	0.24826	0.263	0.25817	0.25691	2.32E-03	1.02E-05	9.41E-06	1.06E-05	8.82E-06	2.3566E-03
519929.85	4258609.09	11571.9195	0.31649	0.78265	0.34614	0.75038	2.32E-03	1.30E-05	2.80E-05	1.42E-05	2.58E-05	2.3983E-03
519863.19	4258746.03	11564.74219	0.26447	0.40319	0.27958	0.39154	2.32E-03	1.08E-05	1.44E-05	1.14E-05	1.34E-05	2.3661E-03
520001.12	4258319.01	11561.47168	0.17311	2.35762	0.18013	2.12849	2.32E-03	7.09E-06	8.43E-05	7.38E-06	7.31E-05	2.4872E-03
519990.38	4258431.67	11559.43407	0.25332	1.93677	0.26699	1.75597	2.31E-03	1.04E-05	6.93E-05	1.09E-05	6.03E-05	2.4658E-03
520755.37	4258589.98	11538.22886	0.10326	0.09985	0.10013	0.10325	2.31E-03	4.23E-06	3.57E-06	4.10E-06	3.54E-06	2.3261E-03
520040.15	4259444.96	11529.83938	5.58981	0.11098	7.89275	0.10869	2.31E-03	2.29E-04	3.97E-06	3.23E-04	3.73E-06	2.8687E-03
520074.83	4259466.13	11500.63861	14.3175	0.11173	25.2064	0.10801	2.30E-03	5.86E-04	4.00E-06	1.03E-03	3.71E-06	3.9291E-03
519822.39	4258858.67	11494.11395	0.24695	0.27402	0.2573	0.26774	2.30E-03	1.01E-05	9.80E-06	1.05E-05	9.19E-06	2.3415E-03
520054.59	4258157.12	11474.88823	0.1295	9.45464	0.13587	6.8905	2.30E-03	5.30E-06	3.38E-04	5.56E-06	2.37E-04	2.8836E-03
520020.39	4258241.14	11469.35438	0.14581	3.38971	0.15216	2.9737	2.30E-03	5.97E-06	1.21E-04	6.23E-06	1.02E-04	2.5324E-03
520002.19	4258308.58	11466.04232	0.16786	2.40161	0.1745	2.16658	2.30E-03	6.87E-06	8.59E-05	7.14E-06	7.44E-05	2.4705E-03
520745.58	4258552	11454.28654	0.10533	0.10354	0.10185	0.10707	2.29E-03	4.31E-06	3.70E-06	4.17E-06	3.68E-06	2.3097E-03
520754.47	4258425.27	11452.73628	0.10179	0.10273	0.09873	0.10686	2.29E-03	4.17E-06	3.67E-06	4.04E-06	3.67E-06	2.3091E-03
519994.93	4258351.52	11446.81165	0.18874	2.12186	0.19687	1.92717	2.29E-03	7.73E-06	7.59E-05	8.06E-06	6.62E-05	2.4502E-03
519939.77	4258589.65	11446.76697	0.32451	0.88393	0.35707	0.84077	2.29E-03	1.33E-05	3.16E-05	1.46E-05	2.89E-05	2.3808E-03
520766.88	4258380.26	11443.98906	0.09812	0.10033	0.09527	0.10407	2.29E-03	4.02E-06	3.59E-06	3.90E-06	3.57E-06	2.3069E-03
520740.81	4258512.96	11439.92732	0.10613	0.10549	0.1024	0.10936	2.29E-03	4.35E-06	3.77E-06	4.19E-06	3.75E-06	2.3071E-03
519993.61	4258362.05	11436.14783	0.19491	2.07488	0.20347	1.88569	2.29E-03	7.98E-06	7.42E-05	8.33E-06	6.47E-05	2.4455E-03
520037.42	4258194.17	11428.96272	0.13541	5.13176	0.14247	4.27669	2.29E-03	5.54E-06	1.84E-04	5.83E-06	1.47E-04	2.6306E-03
520050.06	4259454.95	11427.61853	8.09177	0.11042	14.20794	0.10783	2.29E-03	3.31E-04	3.95E-06	5.82E-04	3.70E-06	3.2092E-03
519996.08	4258341.06	11419.63228	0.18276	2.16383	0.19048	1.96419	2.29E-03	7.48E-06	7.74E-05	7.80E-06	6.74E-05	2.4470E-03
520741.16	4258503.83	11413.85342	0.10594	0.10552	0.10223	0.10946	2.29E-03	4.34E-06	3.77E-06	4.19E-06	3.76E-06	2.3018E-03
519878.13	4258709.69	11413.29674	0.27083	0.46558	0.28794	0.45079	2.29E-03	1.11E-05	1.67E-05	1.18E-05	1.55E-05	2.3407E-03
520741.5	4258494.69	11412.88106	0.10576	0.10558	0.10209	0.1096	2.29E-03	4.33E-06	3.78E-06	4.18E-06	3.76E-06	2.3016E-03
520097.5	4258074.16	11409.83044	0.11752	17.28431	0.11981	17.82044	2.28E-03	4.81E-06	6.18E-04	4.91E-06	6.12E-04	3.5247E-03
520027.51	4258218.24	11395.77086	0.13996	3.97313	0.14671	3.42692	2.28E-03	5.73E-06	1.42E-04	6.01E-06	1.18E-04	2.5537E-03
520763.5	4258397.25	11392.10153	0.09923	0.10085	0.09635	0.10472	2.28E-03	4.06E-06	3.61E-06	3.94E-06	3.60E-06	2.2966E-03
520765.26	4258609	11389.44132	0.10095	0.0968	0.09798	0.10002	2.28E-03	4.13E-06	3.46E-06	4.01E-06	3.43E-06	2.2959E-03
520084.75	4259476.12	11387.90235	13.65237	0.11118	13.6865	0.10701	2.28E-03	5.59E-04	3.98E-06	5.60E-04	3.67E-06	3.4076E-03
519992.08	4258372.67	11380.50649	0.20126	2.02181	1.83931	1.88931	2.28E-03	8.24E-06	7.23E-05	8.61E-06	6.31E-05	2.4314E-03
520046.92	4258170.27	11374.12586	0.13091	6.92348	0.13767	5.46662	2.28E-03	5.36E-06	2.48E-04	5.64E-06	1.88E-04	2.7241E-03
520751.09	4258442.28	11373.04022	0.1028	0.10346	0.09962	0.10764	2.28E-03	4.21E-06	3.70E-06	4.08E-06	3.70E-06	2.2933E-03
519825.58	4258842.46	11367.70512	0.24516	0.28564	0.25591	0.27909	2.28E-03	1.00E-05	1.02E-05	1.05E-05	9.58E-06	2.3169E-03
519986.47	4258465.43	11361.43497	0.28741	1.79455	0.3063	1.62836	2.28E-03	1.18E-05	6.42E-05	1.25E-05	5.59E-05	2.4197E-03
519997.09	4258330.66	11361.22735	0.17701	2.2015	0.18432	1.99732	2.28E-03	7.25E-06	7.87E-05	7.55E-06	6.86E-05	2.4373E-03
520003.15	4258298.19	11348.32202	0.16283	2.4407	0.1691	2.20078	2.27E-03	6.67E-06	8.73E-05	6.92E-06	7.56E-05	2.4491E-03
520755.42	4258580.5	11346.70541	0.10313	0.10011	0.09998	0.10351	2.27E-03	4.22E-06	3.58E-06	4.09E-06	3.55E-06	2.2878E-03
520745.64	4258542.52	11340.92501	0.10519	0.10376	0.10166	0.10733	2.27E-03	4.31E-06	3.71E-06	4.16E-06	3.68E-06	2.2870E-03
520744.5	4258476.96	11331.1041	0.10477	0.10492	0.10126	0.10902	2.27E-03	4.29E-06	3.75E-06	4.15E-06	3.74E-06	2.2851E-03
520063.98	4258133.27	11330.64887	0.12505	16.43267	0.13048	9.54957	2.27E-03	5.12E-06	5.88E-04	5.34E-06	3.28E-04	3.1952E-03
520747.8	4258459.5	11327.87989	0.10381	0.10414	0.10045	0.10833	2.27E-03	4.25E-06	3.72E-06	4.11E-06	3.72E-06	2.2844E-03
519969.52	4258531.34	11324.73535	0.33839	1.32981	0.37092	1.23227	2.27E-03	1.39E-05	4.76E-05	1.52E-05	4.23E-05	2.3868E-03
519829.52	4258828.01	11314.48529	0.24533	0.29782	0.25654	0.29088	2.27E-03	1.00E-05	1.07E-05	1.05E-05	9.99E-06	2.3071E-03
520760.19	4258414.43	11308.97063	0.1003	0.1013	0.09734	0.10531	2.26E-03	4.11E-06	3.62E-06	3.99E-06	3.62E-06	2.2801E-03
519979.4	4258502.21	11307.06942	0.32335	1.56857	0.35147	1.43612	2.26E-03	1.32E-05	5.61E-05	1.44E-05	4.93E-05	2.3974E-03
519872.28	4258719.71	11301.42977	0.26583	0.44272	0.28146	0.42944	2.26E-03	1.09E-05	1.58E-05	1.15E-05	1.47E-05	2.3163E-03
520040.16	4259454.96	11293.96818	5.68902	0.10917	7.99091	0.10693	2.26E-03	2.33E-04	3.90E-06	3

519818.69	4258849.89	10991.9581	0.23633	0.27455	0.24619	0.26845	2.20E-03	9.68E-06	9.82E-06	1.01E-05	9.22E-06	2.2401E-03
520765.37	4258590.04	10982.86187	0.10069	0.09736	0.09775	0.10064	2.20E-03	4.12E-06	3.48E-06	4.00E-06	3.46E-06	2.2145E-03
520763.67	4258423.56	10976.73472	0.09963	0.10016	0.09668	0.10414	2.20E-03	4.08E-06	3.58E-06	3.96E-06	3.58E-06	2.2134E-03
519850.14	4258762.77	10972.44601	0.24861	0.36636	0.26133	0.35678	2.20E-03	1.02E-05	1.31E-05	1.07E-05	1.22E-05	2.2436E-03
520035.22	4259466.2	10971.5653	4.9616	0.10665	6.60344	0.10459	2.20E-03	2.03E-04	3.81E-06	2.70E-04	3.59E-06	2.6781E-03
519986.86	4258391.7	10939.36884	0.21056	1.85797	0.22008	1.69827	2.19E-03	8.62E-06	6.65E-05	9.01E-06	5.83E-05	2.3332E-03
520106.6	4258043.98	10933.64853	0.11136	11.88598	0.11285	13.52951	2.19E-03	4.56E-06	4.25E-04	4.62E-06	4.64E-04	3.0884E-03
520084.78	4259496.12	10925.16323	12.91227	0.10767	12.93859	0.10368	2.19E-03	5.29E-04	3.85E-06	5.30E-04	3.56E-06	3.2538E-03
520028.61	4258197.81	10921.1159	0.13257	4.06418	0.13911	3.49663	2.19E-03	5.43E-06	1.45E-04	5.70E-06	1.20E-04	2.4636E-03
519844.85	4258774.14	10914.81807	0.2451	0.35033	0.25735	0.34141	2.19E-03	1.00E-05	1.25E-05	1.05E-05	1.17E-05	2.2307E-03
520055.16	4258136.91	10910.03442	0.12288	9.65391	0.12877	6.98286	2.18E-03	5.03E-06	3.45E-04	5.27E-06	2.40E-04	2.7802E-03
520038.24	4258173.86	10909.75408	0.12835	5.2302	0.13504	4.34501	2.18E-03	5.26E-06	1.87E-04	5.53E-06	1.49E-04	2.5319E-03
519929.81	4258399.39	10907.35103	0.30641	0.79332	0.33505	0.75982	2.18E-03	1.25E-05	2.84E-05	1.37E-05	2.61E-05	2.2651E-03
520755.58	4258552.06	10891.38907	0.10274	0.10089	0.09945	0.10429	2.18E-03	4.21E-06	3.61E-06	4.07E-06	3.58E-06	2.1966E-03
520011.67	4258244.74	10882.57233	0.14255	2.84	0.14808	2.53522	2.18E-03	5.84E-06	1.02E-04	6.06E-06	8.70E-05	2.3799E-03
520045.14	4259476.18	10881.7947	6.88458	0.10619	10.69573	0.10386	2.18E-03	2.82E-04	3.80E-06	4.38E-04	3.57E-06	2.9064E-03
520750.81	4258513.33	10873.8756	0.10356	0.10271	0.1	0.10641	2.18E-03	4.24E-06	3.67E-06	4.09E-06	3.65E-06	2.1933E-03
519969.48	4258521.64	10859.61698	0.32418	1.34376	0.3537	1.24481	2.17E-03	1.33E-05	4.81E-05	1.45E-05	4.27E-05	2.2933E-03
520751.15	4258504.2	10849.85966	0.10339	0.10273	0.09984	0.1065	2.17E-03	4.23E-06	3.67E-06	4.09E-06	3.66E-06	2.1885E-03
520751.49	4258495.07	10848.92829	0.10322	0.10279	0.09971	0.10662	2.17E-03	4.23E-06	3.68E-06	4.08E-06	3.66E-06	2.1883E-03
520018.55	4258221.93	10840.01517	0.13683	3.24406	0.14273	2.85985	2.17E-03	5.60E-06	1.16E-04	5.84E-06	9.82E-05	2.3965E-03
520773.74	4258398.27	10838.64	0.09698	0.098	0.09423	0.10174	2.17E-03	3.97E-06	3.51E-06	3.86E-06	3.49E-06	2.1854E-03
519821.86	4258833.61	10830.06899	0.2343	0.28607	0.24455	0.27962	2.17E-03	9.59E-06	1.02E-05	1.00E-05	9.60E-06	2.2083E-03
519880.82	4258692.07	10826.97524	0.26444	0.48514	0.28031	0.47075	2.17E-03	1.08E-05	1.74E-05	1.15E-05	1.62E-05	2.2241E-03
520761.22	4258443	10810.47096	0.1004	0.1006	0.09734	0.10461	2.16E-03	4.11E-06	3.60E-06	3.99E-06	3.59E-06	2.1802E-03
520074.88	4259496.13	10808.20329	15.68911	0.10645	22.17807	0.10298	2.16E-03	6.42E-04	3.81E-06	9.08E-04	3.54E-06	3.7223E-03
520765.42	4258580.56	10800.78768	0.10056	0.09766	0.09762	0.10094	2.16E-03	4.12E-06	3.49E-06	4.00E-06	3.47E-06	2.1781E-03
519979.32	4258482.81	10795.64776	0.29536	1.59577	0.31754	1.45977	2.16E-03	1.21E-05	5.71E-05	1.30E-05	5.01E-05	2.2943E-03
519983.36	4258448.73	10794.27214	0.26067	1.72826	0.25764	1.57766	2.16E-03	1.07E-05	6.18E-05	1.13E-05	5.42E-05	2.2996E-03
519859.47	4258737.04	10786.78924	0.25076	0.40115	0.26451	0.3899	2.16E-03	1.03E-05	1.43E-05	1.08E-05	1.34E-05	2.2090E-03
520755.64	4258542.58	10784.31248	0.10261	0.10111	0.09927	0.10453	2.16E-03	4.20E-06	3.62E-06	4.06E-06	3.59E-06	2.1752E-03
519939.73	4258579.95	10772.59679	0.31305	0.89514	0.3427	0.85118	2.16E-03	1.28E-05	3.20E-05	1.40E-05	2.92E-05	2.2454E-03
520754.64	4258477.47	10772.49718	0.10229	0.10208	0.09891	0.10601	2.16E-03	4.19E-06	3.65E-06	4.05E-06	3.64E-06	2.1729E-03
519992.24	4258322.68	10771.63474	0.16858	2.03556	0.17524	1.85996	2.16E-03	6.90E-06	7.28E-05	7.18E-06	6.39E-05	2.3079E-03
520757.89	4258460.12	10768.89645	0.10138	0.10122	0.09833	0.10523	2.16E-03	4.15E-06	3.62E-06	4.02E-06	3.61E-06	2.1720E-03
519825.91	4258819.42	10761.01318	0.23451	0.29814	0.24524	0.29122	2.16E-03	9.60E-06	1.07E-05	1.00E-05	1.00E-05	2.1953E-03
520770.4	4258415.37	10753.70131	0.09799	0.09849	0.09516	0.10235	2.15E-03	4.01E-06	3.52E-06	3.90E-06	3.51E-06	2.1685E-03
520035.24	4259476.2	10753.56069	5.00497	0.10501	6.70911	0.10299	2.15E-03	2.05E-04	3.76E-06	2.75E-04	3.54E-06	2.6405E-03
520046	4258150.68	10750.72962	0.12375	6.66743	0.13012	5.30283	2.15E-03	5.07E-06	2.38E-04	5.33E-06	1.82E-04	2.5839E-03
520096.78	4258053.95	10750.35762	0.11157	18.01865	0.11367	18.14535	2.15E-03	4.57E-06	6.45E-04	4.65E-06	6.23E-04	3.4296E-03
519993.42	4258312.2	10719.6628	0.16365	2.07438	0.16998	1.89404	2.15E-03	6.70E-06	7.42E-05	6.96E-06	6.50E-05	2.2996E-03
520755.69	4258133.09	10701.34579	0.1025	0.10128	0.09911	0.10474	2.14E-03	4.20E-06	3.62E-06	4.06E-06	3.60E-06	2.1586E-03
520061.5	4258116.61	10697.18628	0.11884	13.65703	0.12402	8.64626	2.14E-03	4.87E-06	4.88E-04	5.08E-06	2.97E-04	2.9375E-03
520012.34	4258234.48	10694.52747	0.13866	2.86959	0.1441	2.5603	2.14E-03	5.68E-06	1.03E-04	5.90E-06	8.79E-05	2.3438E-03
519983.52	4258424.08	10688.57444	0.23499	1.75046	0.24662	1.60169	2.14E-03	9.62E-06	6.26E-05	1.01E-05	5.50E-05	2.2779E-03
520029.1	4258187.62	10688.22207	0.1291	4.10761	0.13555	3.52922	2.14E-03	5.29E-06	1.47E-04	5.55E-06	1.21E-04	2.4194E-03
520045.16	4259486.18	10665.26858	7.02856	0.10452	11.02098	0.10225	2.14E-03	2.88E-04	3.74E-06	4.51E-04	3.51E-06	2.8821E-03
520082.08	4259506.95	10656.25792	13.40689	0.10552	14.06741	0.10178	2.13E-03	5.49E-04	3.77E-06	5.76E-04	3.49E-06	3.2662E-03
520767.14	4258432.68	10654.39551	0.09893	0.09911	0.096	0.10304	2.13E-03	4.05E-06	3.55E-06	3.93E-06	3.54E-06	2.1488E-03
519907.12	4258636.77	10652.02122	0.28198	0.62453	0.30367	0.60476	2.13E-03	1.15E-05	2.23E-05	1.24E-05	2.08E-05	2.2003E-03
519994.47	4258301.78	10643.77811	0.15889	2.10897	0.16491	1.92504	2.13E-03	6.51E-06	7.55E-05	6.75E-06	6.61E-05	2.2864E-03
520755.74	4258523.61	10643.00193	0.10241	0.10135	0.09897	0.10488	2.13E-03	4.19E-06	3.63E-06	4.05E-06	3.60E-06	2.1469E-03
520106.64	4258033.98	10640.27187	0.10872	11.88694	0.11013	13.52701	2.13E-03	4.45E-06	4.25E-04	4.51E-06	4.64E-04	3.0294E-03
520055.42	4258126.82	10640.113	0.11978	9.74745	0.12545	7.01866	2.13E-03	4.90E-06	3.49E-04	5.14E-06	2.41E-04	2.7305E-03
520765.48	4258571.08	10636.57503	0.10045	0.09792	0.09747	0.10119	2.13E-03	4.11E-06	3.50E-06	3.99E-06	3.47E-06	2.1452E-03
520019.2	4258211.68	10635.23792	0.13323	3.28858	0.13909	2.89728	2.13E-03	5.45E-06	1.18E-04	5.69E-06	9.95E-05	2.3581E-03
519811.79	4258857.29	10635.08246	0.22796	0.26414	0.23698	0.25845	2.13E-03	9.33E-06	9.45E-06	9.70E-06	8.87E-06	2.1672E-03
519959.56	4258541.08	10634.53003	0.32166	1.16311	0.35129	1.08859	2.13E-03	1.32E-05	4.16E-05	1.44E-05	3.74E-05	2.2362E-03
519838.31	4258782.47	10628.09417	0.23761	0.33507	0.24905	0.32682	2.13E-03	9.73E-06	1.20E-05	1.02E-05	1.12E-05	2.1716E-03
519897.12	4258655.32	10611.61773	0.27333	0.56668	0.29202	0.55002	2.13E-03	1.12E-05	2.03E-05	1.20E-05	1.89E-05	2.1884E-03
519987.55	4258344.58	10611.32298	0.17786	1.89087	0.18501	1.73451	2.13E-03	7.28E-06	6.76E-05	7.58E-06	5.95E-05	2.2675E-03
520001.27	4258269.01	10603.63537	0.14734	2.35602	0.15261	2.13509	2.12E-03	6.03E-06	8.43E-05	6.25E-06	7.33E-05	2.2934E-03
519986.31	4258355.08	10601.84911	0.18343	1.85405	0.1909	1.70155	2.12E-03	7.51E-06	6.63E-05	7.82E-06	5.84E-05	2.2632E-03
519983.45	4258400	10601.2884	0.21338	1.76232	0.22303	1.61602	2.12E-03	8.74E-06	6.30E-05	9.13E-06	5.55E-05	2.2594E-03
519988.65	4258334.14	10594.41997	0.17247	1.92421	0.17931	1.76432	2.12E-03	7.06E-06	6.88E-05	7.34E-06	6.06E-05	2.2655E-03
519874.46	4258700.84	10575.77307	0.25635	0.46102	0.27196	0.44715	2.12E-03	1.05E-05	1.65E-05	1.11E-05	1.54E-05	2.1714E-03
520036.69	4258164.51	10563.71496	0.1245	4.99211	0.13097	4.17592	2.12E-03	5.10E-06	1.79E-04	5.36E-06	1.43E-04	2.4479E-03
519887.12	4258673.87	10555.25032	0.26503	0.51696	0.28131	0.50225	2.11E-03	1.09E-05	1.85E-05	1.15E-05	1.72E-05	2.1719E-03
519884.87	4258365.66	10551.81349	0.18914	1.81234	0.19695	1.66432	2.11E-03	7.74E-06	6.48E-05	8.06E-06	5.71E-05	2.2509E-03
519995.42	4258291.4	10547.68496	0.15431	2.14017	0.16	1.9521	2.11E-03	6.32E-06	7.66E-05	6.55E-06	6.70E-05	2.2688E-03
520072.18	4259506.97	10542.71872	14.75712	0.1043	25.19065	0.10106	2.11E-03	6.04E-04	3.73E-06	1.03E-03	3.47E-06	3.7541E-03
520035.26	4259486.2	10541.93905	5.07758	0.10338	6.82972	0.10139	2.11E-03	2.08E-04	3.70E-06	2.80E-04	3.48E-06	2.6059E-03
519949.65	4258560.52	10539.86989	0.3147	1.01372	0.34318	0.95744	2.11E-03	1.29E-05	3.63E-05	1.41E-05	3.29E-05	2.2068E-03
520777.17	4258407.27	10536.71452	0.09639	0.09686	0.09366	0.1006	2.11E-03	3.95E-06	3.46E-06	3.83E-06	3.45E-06	2.1248E-03
520758.06	4258486.46	10535.17352	0.10153	0.10109	0.09816	0.10489	2.11E-03	4.16E-06	3.62E-06	4.02E-06	3.60E-06	2.1252E-03
520062	4258109.76	10534.94741	0.11695	14.08256	0.12197	8.78526	2.11E-03	4.79E-06	5.04E-04	4.99E-06	3.02E-04	2.9246E-03
519829.12	4258803.25	10534.87652	0.2321	0.31072	0.24293	0.30336	2.11E-03	9.50E-06	1.11E-05	9.95E-06	1.04E-05	2.1507E-03
519852.99	4258745.53	10525.48493	0.24335	0.38257	0.25633	0.37215	2.11E-03	9.96E-06	1.37E-05	1.05E-05	1.28E-05	2.1548E-03
520764.59	4258451.87	10519.03891	0.09971	0.09955	0.09662	0.10348	2.11E-03	4.08E-06	3.56E-06	3.96E-06	3.55E-06	2.1217E-03
520761.29	4258469.05	10498.70058	0.10064	0.10026	0.09738	0.10415	2.10E-03	4.12E-06	3.59E-06	3.99E-06	3.58E-06	2.1178E-03
520046.34	4258140.55	10497.27864	0.12064	6.73129	0.1268	5.33984	2.10E-03	4.94E-06	2.41E-04	5.19E-06	1.83E-04	2.5364E-03
520765.53	4258561.6	10492.73178	0.10034	0.09815	0.0973	0.10141	2.10E-03	4.11E-06	3.51E-06	3.98E-06	3.48E-06	2.1164E-03
519814.99	4258841.1	10486.96361	0.22617	0.27495	0.23559	0.26894	2.10E-03	9.26E-06	9.83E-06	9.65E-06	9.23E-06	2.1381E-03
519969.44	4258511.95	10479.55788	0.31066	1.35671	0.33741	1.25662	2.10E-03	1.27E-05	4.85E-05	1.38E-05	4.31E-05	2.2169E-03
520002.15	4258258.66	10465.7646	0.14329	2.39178	0.14837	2.16553	2.10E-03	5.87E-06	8.56E-05	6.07E-06	7.43E-05	2.2677E-03
519979.85	4258457.26	10464.44718	0.26423	1.63585	0.27996	1.49764	2.10E-03	1.08E-05	5.85E-05	1.15E-05	5.14E-05	2.2279E-03
520096.82	4258043.95	10464.23976	0.10891	18.03618	0.11091	17.95999	2.10E-03	4.46E-06	6.45E-04	4.54E-06	6.17E-04	3.3663E-03
519868.49	4258710.57	10461.93637	0.25126	0.43893	0.26568	0.42624	2.10E-03	1.03E-05	1.57E-05	1.09E-05	1.46E-05	2.1466E-03
520029.55	4258177.44	10458.05669	0.12578	4.14291	0.13211	3.55467	2.09E-03	5.15E-06	1.48E-04	5.41E-06	1.22E-04	2.3751E-03
520045.18	4259496.18	10455.25736	7.56622	0.1029	11.48355	0.10067	2.09E-03	2.93E-04	3.68E-06	4.70E-04	3.46E-06	2.8645E-03
520082.1	4259516.95	10444.02112	13.05274	0.10388	13.52034	0.10022	2.09E-03	5.34E-04	3.72E-06	5.54E-04	3.44E-06	3.1867E-03
520773.85	4258424.44	10439.01492	0.09733	0.09746	0.09452	0.10128	2.09E-03	3.99E-06	3.49E-06	3.87E-06	3.48E-06	2.1054E-03
519996.27	4258281.06	10435.60227	0.14992	2.16925	0.15531	1.97764	2.09E-03	6.14E-06	7.76E-05	6.36E-06	6.79E-05	2.2479E-03
520019.8	4258201.44	10424.14289	0.12973	3.31428	0.13554	2.91303	2.09E-03	5.31E-06	1.19E-04	5.55E-06	1.00E-04	2.3170E-03
519919.85	4258609.13	10408.39853	0.28969	0.7171	0.31466	0.69075	2.08E-03	1.19E-05	2.56E-05	1.29E-05	2.37E-05	2.1585E-03
520781.19	4258599.97	10370.77127	0.0969	0.09327	0.09421	0.09637	2.08E-03	3.97E-06	3.34E-06	3.86E-06	3.31E-06	2.0914E-03
520765.58	4258552.11	10369.38629	0.10023	0.09836	0.09713	0.10162	2.08E-03	4.10E-06	3.52E-06	3.98E-06	3.49E-06	2.0917E-03
520106.67	4258023.98	10356.90929	0.10619	11.89394	0.10752	13.4786	2.07E-03	4.35E-06	4.25E-04	4.40E-06	4.63E-04	2.9710E-03
520760.8	4258513.71	10349.3448	0.10108	0.10006	0.09769	0.1036	2.07E-03	4.14E-06	3.58E-06	4.00E-06	3.56E-06	2.0879E-03
520770.62	4258441.81	10346.09765	0.09822	0.09809	0.09529	0.10195	2.07E-03	4.02E-06	3.51E-06	3.90E-06	3.50E-06	2.0869E-03
520035.28	4259496.2	10336.33645	5.16322	0.10178	6.98422	0.09984	2.07E-03	2.11E-04	3.64E-06	2.86E-04	3.43E-06	2.5744E-03
520072.2	4259516.97	10334.70885	14.37437	0.1027	23.54454	0.09953	2.07E-03	5.88E-04	3.67E-06	8.64E-04	3.42E-06	3.6293E-03
520037.12	4258154.35	10329.10641	0.12137	5.04232	0.1277	4.21132	2.07E-03	4.97E-06	1.80E-04	5.23E-06	1.45E-04	2.4037E-03
519980.06	4258432.48	10327.91799	0.23809	1.65945	0.25	1.5232	2.07E-03	9.75E-06	5.94E-05	1.02E-05	5.23E-05	2.1999E-03
520761.14	4258504.58	10326.32292	0.10093	0.10006	0.09755	0.10366	2.07E-03	4.13E-06	3.58E-06	3.99E-06	3.56E-06	2.0833E-03
520761.49	4258495.44	10324.6985	0.10077	0.10008	0.09742	0.10375	2.07E-03	4.13E-06	3.58E-06	3.99E-06	3.56E-06	2.0829E-03
520002.95	4258248.34	10317.26396	0.13941	2.4217	0.14432	2.19158	2.07E-03	5.71E-06	8.66E-05	5.91E-06	7.52E-05	2.2396E-03
520009.59	4258225.63	10303.97238	0.13381	2.71691	0.13889	2.43628	2.06E-03	5.48E-06	9.72E-05	5.69E-06	8.36E-05	2.2555E-03
519929.77	4258589.69	10299.41785	0.2967	0.80389	0.32387	0.76903	2.06E-03	1.21E-05	2.88E-05	1.33E-05	2.64E-05	2.1432E-03
519818.14	4258824.77	10292.5285	0.22395	0.28628	0.2337	0.27986	2.06E-03	9.17E-06	1.02E-05	9.57E-06	9.61E-06	2.0998E-03
519846.47	4258753.92	10277.66861	0.23627	0.36519	0.24831	0.35564	2.06E-03	9.67E-06	1.31E-05	1.02E-05	1.22E-05	2.1024E-03
520765.64	4258542.63	10267.75417	0.10013	0.09854	0.09697	0.10182	2.06E-03	4.10E-06	3.52E-06	3.97E-06	3.50E-06	2.0713E-03
519862.15	4258719.38	10258.22028	0.24466	0.41795	0.25808	0.4063	2.05E-03	1.00E-05	1.49E-05	1.06E-05	1.39E-05	2.1038E-03
520764.68	4258477.97	10251.97358	0.09988	0.09938	0.09665	0.10313	2.05E-03	4.09E-06	3.55E-06	3.96E-06	3.54E-06	2.0682E-03
520046.65	4258130.44	10250.01371	0.11765	6.78975	0.12362	5.37168	2.05E-03	4.82E-06	2.43E-04	5.06E-06	1.84E-04	2.4899E-03
520767.97	4258460.73	10246.91772	0.09901	0.09856	0.0959	0.10239	2.05E-03	4.05E-06	3.53E-06	3.93E-06	3.52E-06	2.0671E-03
520082.12	4259526.95	10237.74045	12.93918	0.10227	12.98519	0.0987	2.05E-03	5.30E-04	3.66E-06	5.32E-04	3.39E-06	3.1187E-03
519841.08	4258765.04	10233.92164	0.23305	0.34921	0.24424	0.34053	2.05E-03	9.54E-06	1.25E-05	1.00E-05	1.17E-05	2.0932E-03
520780.59	4258416.28	10233.32037	0.09575	0.09583	0.09307	0.09954	2.05E-03	3.92E-06	3.43E-06	3.81E-06	3.42E-06	2.0639E-03
520020.35	4258191.23	10223.83649	0.12644	3.35863	0.13221	2.95208	2.05E-03	5.18E-06	1.20E-04	5.41E-06	1.01E-04	2.2795E-03
519822.29	4258810.82	10212.61565	0.22424	0.2981	0.23433	0.29123	2.05E-03	9.18E-06	1.07E-05	9.59E-06	1.00E-05	2.0847E-03
520042.48	4259507.02	10203.14337	6.67455	0.10088	10.25519	0.09879	2.04E-03	2.73E-04	3.61E-06	4.20E-04	3.39E-06	2.7435E-03
520778.28	4258583.39	10203.08164	0.09743	0.09447	0.09472	0.0976	2.04E-03	3.99E-06	3.38E-06	3.88E-06	3.35E-06	2.0579E-03
520096.85	4258033.95	10194.0866	0.10638	18.05343	0.10826	18.0002	2.04E-03	4.36E-06	6.46E-04	4.43E-06	6.21E-04	3.3171E-03
520765.69	4258533.15	10189.31154	0.10004	0.09868	0.09682	0.102	2.04E-03	4.10E-06	3.53E-06	3.96E-06	3.50E-06	2.0556E-03
519959.52	4258531.38	10177.30844	0.30932	1.17559	0.33664	1.0997	2.04E-03	1.27E-05	4.20E-05	1.38E-05	3.78E-05	2.1444E-03
520059.08	4258101.95	10176.29182	0.11372	11.71354	0.11872	7.89602	2.04E-03	4.66E-06	4.19E-04	4.86E-06	2.71E-04	2.7375E-03
519976.34	4258465.79	10175.01483	0.26766	1.54944	0.2847	1.42297	2.04E-03	1.10E-05	5.54E-05	1.17E-05	4.89E-05	2.1646E-03
519969.4	4258502.25	10174.482	0.29781	1.36903	0.32207	1.26774	2.04E-03	1.22E-05	4.90E-05	1.32E-05	4.35E-05	2.1555E-03
520051.71	4258116.57	10164.12809	0.11537	8.22773	0.12097	6.20541	2.04E-03	4.72E-06	2.94E-04	4.95E-06	2.13E-04	2.5525E-03
520009.69	4258238.05	10161.88672	0.13568	2.44963	0.14047	2.21563	2.04E-03	5.56E-06	8.76E-05	5.75E-06	7.61E-05	2.2100E-03
519808.11	4258848.56	10160.47539	0.21843	0.26449	0.22707	0.2589	2.03E-03	8.94E-06	9.46E-06	9.30E-06	8.89E-06	2.0714E-03
519979.54	4258385.23	10135.8031	0.19762	1.67173	0.20584	1.54142	2.03E-03	8.09E-06	5.98E-05	8.43E-06	5.29E-05	2.1591E-03
520077.3	4258433.5	10135.73052	0.09665	0.09646	0.09386	0.10022	2.03E-03	3.96E-06	3.45E-06	3.84E-06	3.44E-06	2.0445E-03
520765.74	4258523.67	10133.90903	0.09995	0.09878	0.09669	0.10216	2.03E-03	4.09E-06	3.53E-06	3.96E-06	3.51E-06	2.0445E-03
520072.22	4259526.97	10133.05515	13.88786	0.10114	22.06855	0.09804	2.03E-03	5.69E-04	3.62E-06	9.04E-04	3.37E-06	3.5085E-03
520010.31	4258215.34	10129.31854	0.13035	2.75175	0.1354	2.46564	2.03E-03	5.34E-06	9.84E-05	5.54E-06	8.46E-05	2.2225E-03
520027.74	4258168.2	10124.38825	0.12198	3.95364	0.12807	3.40939	2.03E-03	4.99E-06	1.41E-04	5.24E-06	1.17E-04	2.2962E-03
519897.12	4258646.05	10113.0582	0.2663	0.5729	0.28508	0.55643	2.03E-03	1.09E-05	2.05E-05	1.17E-05	1.91E-05	2.0874E-03
520037.52	4258144.2	10095.20871	0.11836	5.0891	0.12456	4.24224	2.02E-03	4.85E-06	1.82E-04	5.10E-06	1.46E-04	2.3593E-03
519949.61	4258550.82	10093.60485	0.30621	1.02802	0.33318	0.96999	2.02E-03	1.25E-05	3.68E-05	1.36E-05	3.33E-05	2.1176E-03
520106.7	4258013.98	10089.12547	0.10377	11.89491	0.10501	13.54855	2.02E-03	4.25E-06	4.25E-04	4.30E-06	4.65E-04	2.9196E-03
519939.69	4258570.26	10089.12041	0.30001	0.90522	0.32637	0.86026	2.02E-03	1.23E-05	3.24E-05	1.34E-05	2.95E-05	2.1080E-03
520032.58	4259507.04	10088.69869	4.85894	0.09981	6.44808	0.09797	2.02E-03	1.99E-04	3.57E-06	2.64E-04	3.36E-06	2.4903E-03
519887.12	4258664.6	10078.4998	0.25839	0.52245	0.27449	0.5083	2.02E-03	1.06E-05	1.87E-05	1.12E-05	1.75E-05	2.0763E-03
520774.09	4258450.94	10058.92857	0.09752	0.0971	0.09458	0.10087	2.01E-03	3.99E-06	3.47E-06	3.87E-06	3.46E-06	2.0292E-03
519855.74	4258728.06	10042.19271	0.23794	0.39842	0.25057	0.38761	2.01E-03	9.74E-06	1.43E-05	1.03E-05	1.33E-05	2.0586E-03
520768.08	4258486.89	10033.0629	0.09915	0.09842	0.09592	0.10205	2.01E-03	4.06E-06	3.52E-06	3.93E-06	3

519975.88	4258394.11	9805.55861	0.20022	1.58521	0.20852	1.46598	1.96E-03	8.20E-06	5.67E-05	8.54E-06	5.03E-05	2.0875E-03
519959.48	4258521.68	9800.85386	0.29761	1.1874	0.32273	1.11019	1.96E-03	1.22E-05	4.25E-05	1.32E-05	3.81E-05	2.0687E-03
520777.57	4258460.06	9792.3888	0.0968	0.09616	0.09385	0.09982	1.96E-03	3.96E-06	3.44E-06	3.84E-06	3.43E-06	1.9757E-03
520000.63	4258229.33	9786.83834	0.13091	2.31813	0.13535	2.10655	1.96E-03	5.36E-06	8.29E-05	5.54E-06	7.23E-05	1.1261E-03
520060.26	4258084.04	9783.85703	0.10921	12.47338	0.11384	8.17456	1.96E-03	4.47E-06	4.46E-04	4.66E-06	2.81E-04	2.6953E-03
520078.02	4259548.19	9780.24726	13.67845	0.09856	14.27527	0.09535	1.96E-03	5.60E-04	3.53E-06	5.84E-04	3.27E-06	3.1100E-03
520011.61	4258194.84	9774.10277	0.12385	2.8111	0.12885	2.51358	1.96E-03	5.07E-06	1.01E-04	5.28E-06	8.63E-05	2.1546E-03
520774.72	4258478.46	9768.6547	0.09757	0.09675	0.09447	0.10034	1.96E-03	3.99E-06	3.46E-06	3.87E-06	3.44E-06	1.9711E-03
519994.23	4258251.94	9765.24516	0.13633	2.08716	0.14086	1.91061	1.96E-03	5.58E-06	7.47E-05	5.77E-06	6.56E-05	2.1072E-03
519814.42	4258815.92	9761.40448	0.21414	0.28615	0.22325	0.2798	1.95E-03	8.77E-06	1.02E-05	9.14E-06	9.61E-06	1.9926E-03
519929.73	4258580	9737.53833	0.28716	0.81393	0.31238	0.77783	1.95E-03	1.18E-05	2.91E-05	1.28E-05	2.67E-05	2.0304E-03
520788.42	4258583.44	9733.13381	0.09504	0.0921	0.09249	0.09513	1.95E-03	3.89E-06	3.29E-06	3.79E-06	3.27E-06	1.9634E-03
520776.55	4258540.86	9730.70751	0.09752	0.09579	0.09451	0.09895	1.95E-03	3.99E-06	3.43E-06	3.87E-06	3.40E-06	1.9634E-03
519969.32	4258482.85	9716.63933	0.2739	1.39181	0.2936	1.28781	1.95E-03	1.12E-05	4.98E-05	1.20E-05	4.42E-05	2.0631E-03
520032.61	4259527.04	9709.45867	5.0545	0.09684	6.84375	0.09507	1.94E-03	2.07E-04	3.46E-06	2.80E-04	3.26E-06	2.4383E-03
520028.69	4258147.84	9706.57336	0.11609	4.03433	0.12203	3.47004	1.94E-03	4.75E-06	1.44E-04	5.00E-06	1.19E-04	2.2171E-03
520018.79	4258171.9	9697.86576	0.11949	3.22835	0.12496	2.84429	1.94E-03	4.89E-06	1.15E-04	5.12E-06	9.76E-05	2.1653E-03
519804.44	4258839.83	9686.40759	0.20935	0.26463	0.21754	0.2591	1.94E-03	8.57E-06	9.47E-06	8.91E-06	8.90E-06	1.9757E-03
520096.91	4258013.95	9683.71756	0.10161	18.0904	0.10328	18.227	1.94E-03	4.16E-06	6.47E-04	4.23E-06	6.26E-04	3.2205E-03
520049.29	4258101.92	9682.97867	0.11046	7.43598	0.11587	5.7418	1.94E-03	4.52E-06	2.66E-04	4.74E-06	1.97E-04	2.4115E-03
520068.12	4259548.21	9682.44278	16.11111	0.09748	25.7271	0.0947	1.94E-03	6.60E-04	3.49E-06	1.05E-03	3.25E-06	3.6588E-03
519818.67	4258802.23	9675.87551	0.21457	0.29765	0.22384	0.29091	1.94E-03	8.79E-06	1.06E-05	9.16E-06	9.99E-06	1.9763E-03
519864.7	4258701.43	9670.97579	0.23769	0.43422	0.25119	0.42223	1.94E-03	9.73E-06	1.55E-05	1.03E-05	1.45E-05	1.9868E-03
520787.45	4258434.29	9662.25981	0.09449	0.09378	0.09179	0.09742	1.93E-03	3.87E-06	3.35E-06	3.76E-06	3.34E-06	1.9493E-03
519995.03	4258241.62	9647.27085	0.1328	2.11694	0.13716	1.93654	1.93E-03	5.44E-06	7.57E-05	5.62E-06	6.65E-05	2.0853E-03
520001.43	4258219.01	9640.99006	0.12758	2.34414	0.13194	2.12809	1.93E-03	5.22E-06	8.38E-05	5.40E-06	7.31E-05	2.0983E-03
519897.12	4258636.77	9635.59389	0.25966	0.57906	0.27838	0.56262	1.93E-03	1.06E-05	2.07E-05	1.14E-05	1.93E-05	1.9917E-03
519887.12	4258655.32	9615.97693	0.25199	0.52789	0.26823	0.51403	1.93E-03	1.03E-05	1.89E-05	1.10E-05	1.76E-05	1.9836E-03
519949.56	4258541.12	9613.25704	0.29479	1.03852	0.31968	0.97966	1.93E-03	1.21E-05	3.71E-05	1.31E-05	3.36E-05	2.0211E-03
520785.55	4258566.75	9610.21114	0.0956	0.09314	0.09292	0.09618	1.92E-03	3.91E-06	3.33E-06	3.80E-06	3.30E-06	1.9389E-03
519842.8	4258745.07	9606.34751	0.22485	0.36324	0.23601	0.35395	1.92E-03	9.21E-06	1.30E-05	9.66E-06	1.22E-05	1.9678E-03
519939.65	4258560.56	9599.20249	0.29083	0.91612	0.31523	0.87023	1.92E-03	1.19E-05	3.28E-05	1.29E-05	2.99E-05	2.0088E-03
520012.18	4258184.61	9594.70575	0.12078	2.84047	0.12577	2.53661	1.92E-03	4.95E-06	1.02E-04	5.15E-06	8.71E-05	2.1202E-03
520078.04	4259558.19	9594.27016	13.29701	0.0971	13.63606	0.09396	1.92E-03	5.44E-04	3.47E-06	5.58E-04	3.23E-06	3.0308E-03
520784.2	4258451.63	9586.0977	0.0953	0.09451	0.09247	0.09812	1.92E-03	3.90E-06	3.38E-06	3.79E-06	3.37E-06	1.9342E-03
520106.76	4257993.98	9584.91434	0.09922	11.8949	0.10029	13.68228	1.92E-03	4.06E-06	4.25E-04	4.11E-06	4.70E-04	2.8229E-03
519877.12	4258673.87	9573.60401	0.24453	0.48377	0.25879	0.47135	1.92E-03	1.00E-05	1.73E-05	1.06E-05	1.62E-05	1.9713E-03
519837.31	4258755.94	9568.23654	0.22156	0.34788	0.23219	0.33923	1.92E-03	9.07E-06	1.24E-05	9.51E-06	1.16E-05	1.9588E-03
520038.4	4259538.26	9565.66084	6.23596	0.09581	9.40905	0.09395	1.92E-03	2.55E-04	3.43E-06	3.85E-04	3.23E-06	2.5629E-03
520778.1	4258487.33	9564.37232	0.09686	0.09581	0.09376	0.09929	1.92E-03	3.97E-06	3.43E-06	3.84E-06	3.41E-06	1.9300E-03
520781.04	4258469.19	9550.27142	0.09609	0.09523	0.09313	0.09878	1.91E-03	3.93E-06	3.41E-06	3.81E-06	3.39E-06	1.9271E-03
520060.29	4258074.04	9546.30997	0.10664	12.44701	0.11111	8.15151	1.91E-03	4.37E-06	4.45E-04	4.55E-06	2.80E-04	2.6458E-03
519858.39	4258710.33	9522.97999	0.23224	0.41387	0.24444	0.40304	1.91E-03	9.51E-06	1.48E-05	1.00E-05	1.38E-05	1.9553E-03
520783.03	4258549.27	9515.25567	0.09607	0.09404	0.09322	0.09711	1.91E-03	3.93E-06	3.36E-06	3.82E-06	3.33E-06	1.9200E-03
520780.1	4258532.72	9511.41173	0.09663	0.09509	0.09364	0.09822	1.90E-03	3.96E-06	3.40E-06	3.83E-06	3.37E-06	1.9194E-03
520019.35	4258161.68	9510.49903	0.11662	3.26852	0.12207	2.87756	1.90E-03	4.77E-06	1.17E-04	5.00E-06	9.88E-05	2.1301E-03
520068.14	4259558.21	9499.75991	15.78501	0.09604	23.91989	0.09332	1.90E-03	6.46E-04	3.44E-06	9.79E-04	3.20E-06	3.5348E-03
520029.13	4258137.67	9499.72082	0.11332	4.06927	0.11917	3.49439	1.90E-03	4.64E-06	1.46E-04	4.88E-06	1.20E-04	2.1775E-03
520002.17	4258208.72	9491.05378	0.1244	2.37366	0.12871	2.15308	1.90E-03	5.09E-06	8.49E-05	5.27E-06	7.39E-05	2.0699E-03
519807.6	4258823.53	9483.97154	0.2073	0.27496	0.21561	0.2691	1.90E-03	8.49E-06	9.83E-06	8.83E-06	9.24E-06	1.9357E-03
519959.44	4258511.99	9474.3596	0.28613	1.19796	0.30903	1.12	1.90E-03	1.17E-05	4.28E-05	1.27E-05	3.85E-05	2.0030E-03
519972.23	4258403	9473.71837	0.20279	1.50523	0.21117	1.39581	1.90E-03	8.30E-06	5.38E-05	8.65E-06	4.79E-05	2.0160E-03
520028.5	4259538.27	9463.3057	4.55887	0.09485	6.01299	0.09318	1.90E-03	1.87E-04	3.39E-06	2.46E-04	3.20E-06	2.3346E-03
520049.32	4258091.92	9453.36662	0.10785	7.42415	0.11308	5.7286	1.89E-03	4.42E-06	2.66E-04	4.63E-06	1.97E-04	2.3644E-03
519972.52	4258378.02	9450.30447	0.18572	1.51985	0.1928	1.41171	1.89E-03	7.60E-06	5.44E-05	7.89E-06	4.85E-05	2.0109E-03
520780.44	4258523.59	9448.97268	0.09649	0.09513	0.09347	0.09829	1.89E-03	3.95E-06	3.40E-06	3.83E-06	3.37E-06	1.9068E-03
520096.94	4258003.95	9444.07918	0.09937	18.1056	0.10094	18.34843	1.89E-03	4.07E-06	6.48E-04	4.13E-06	6.30E-04	3.1770E-03
519909.85	4258609.17	9426.16712	0.26659	0.65977	0.28772	0.63827	1.89E-03	1.09E-05	2.36E-05	1.18E-05	2.19E-05	1.9559E-03
520108.08	4257984.88	9417.26912	0.09751	11.35439	0.09847	13.21272	1.89E-03	3.99E-06	4.06E-04	4.03E-06	4.54E-04	2.7537E-03
519983.51	4258276.34	9414.48667	0.14066	1.78113	0.14545	1.6478	1.89E-03	5.76E-06	6.37E-05	5.96E-06	5.66E-05	2.0174E-03
520078.06	4259568.19	9413.69793	12.92113	0.09567	13.03476	0.0926	1.89E-03	5.29E-04	3.42E-06	5.34E-04	3.18E-06	2.9546E-03
519969.69	4258457.69	9411.29972	0.24709	1.42358	0.26139	1.31703	1.88E-03	1.01E-05	5.09E-05	1.07E-05	4.52E-05	2.0017E-03
520780.79	4258514.46	9407.48737	0.09637	0.09509	0.09332	0.09832	1.88E-03	3.95E-06	3.40E-06	3.82E-06	3.38E-06	1.8985E-03
519821.84	4258785.95	9404.81432	0.212	0.30938	0.22115	0.30232	1.88E-03	8.68E-06	1.11E-05	9.05E-06	1.04E-05	1.9226E-03
520790.88	4258443.29	9394.91741	0.09382	0.09287	0.09112	0.09643	1.88E-03	3.84E-06	3.32E-06	3.73E-06	3.31E-06	1.8957E-03
520038.42	4259548.26	9387.78631	6.40719	0.09441	9.86949	0.09258	1.88E-03	2.62E-04	3.38E-06	4.04E-04	3.18E-06	2.5530E-03
520781.13	4258505.32	9385.85562	0.09625	0.09502	0.09318	0.0983	1.88E-03	3.94E-06	3.40E-06	3.82E-06	3.37E-06	1.8942E-03
520781.47	4258496.19	9383.73054	0.09614	0.09493	0.09307	0.09829	1.88E-03	3.94E-06	3.40E-06	3.81E-06	3.37E-06	1.8937E-03
519830.82	4258764.41	9360.18907	0.21549	0.33297	0.22538	0.32498	1.87E-03	8.82E-06	1.19E-05	9.23E-06	1.12E-05	1.9156E-03
519975.86	4258319.45	9358.35243	0.15549	1.60027	0.16088	1.48798	1.87E-03	6.37E-06	5.72E-05	6.59E-06	5.11E-05	1.9954E-03
519977.1	4258308.95	9348.50648	0.15129	1.62839	0.15653	1.5133	1.87E-03	6.19E-06	5.82E-05	6.41E-06	5.20E-05	1.9950E-03
520789.18	4258558.43	9346.82036	0.09472	0.09246	0.09204	0.09545	1.87E-03	3.88E-06	3.31E-06	3.77E-06	3.28E-06	1.8861E-03
519974.47	4258330.01	9343.13279	0.1598	1.56974	0.16535	1.46035	1.87E-03	6.54E-06	5.61E-05	6.77E-06	5.01E-05	1.9907E-03
519852.02	4258719.08	9338.94971	0.22606	0.395	0.23772	0.38475	1.87E-03	9.26E-06	1.41E-05	9.73E-06	1.32E-05	1.9166E-03
519984.56	4258265.92	9338.34752	0.13697	1.80536	0.14153	1.66929	1.87E-03	5.61E-06	6.46E-05	5.79E-06	5.73E-05	2.0034E-03
520787.65	4258460.69	9337.84691	0.0946	0.09363	0.09177	0.09714	1.87E-03	3.87E-06	3.35E-06	3.76E-06	3.33E-06	1.8843E-03
520002.86	4258198.45	9335.21178	0.12132	2.3922	0.12558	2.16703	1.87E-03	4.97E-06	8.56E-05	5.14E-06	7.44E-05	2.0396E-03
520784.51	4258478.31	9331.38379	0.09538	0.09429	0.09241	0.09773	1.87E-03	3.91E-06	3.37E-06	3.78E-06	3.36E-06	1.8832E-03
520050.47	4258084.01	9330.49645	0.1062	7.74807	0.11126	5.91875	1.87E-03	4.35E-06	2.77E-04	4.56E-06	2.03E-04	2.3578E-03
519919.77	4258589.73	9325.94472	0.27263	0.73527	0.29571	0.70653	1.87E-03	1.12E-05	2.63E-05	1.21E-05	2.43E-05	1.9415E-03
520019.87	4258151.48	9324.93641	0.11385	3.30234	0.11927	2.90367	1.87E-03	4.66E-06	1.18E-04	4.88E-06	9.97E-05	2.0948E-03
520068.16	4259568.21	9322.18872	15.5962	0.09463	22.34603	0.09198	1.87E-03	6.39E-04	3.38E-06	9.15E-04	3.16E-06	3.4269E-03
520060.32	4258064.04	9316.86843	0.10417	12.42092	0.10848	8.11523	1.87E-03	4.27E-06	4.44E-04	4.44E-06	2.79E-04	2.5974E-03
519978.21	4258298.5	9316.75908	0.1472	1.65378	0.15228	1.53609	1.87E-03	6.03E-06	5.92E-05	6.23E-06	5.27E-05	1.9900E-03
520786.56	4258541.19	9289.57364	0.09521	0.09337	0.09237	0.09641	1.86E-03	3.90E-06	3.34E-06	3.78E-06	3.31E-06	1.8747E-03
520028.52	4259548.27	9288.87956	4.65018	0.09347	6.19428	0.09183	1.86E-03	1.90E-04	3.34E-06	2.54E-04	3.15E-06	2.3108E-03
519991.67	4258233.03	9288.29264	0.12811	2.00629	0.13216	1.8425	1.86E-03	5.25E-06	7.18E-05	5.41E-06	6.33E-05	2.0058E-03
519969.8	4258433.17	9286.65983	0.22411	1.44246	0.23461	1.33715	1.86E-03	9.18E-06	5.16E-05	9.61E-06	4.59E-05	1.9761E-03
520009.85	4258175.59	9284.92134	0.11707	2.71117	0.1218	2.43023	1.86E-03	4.79E-06	9.70E-05	4.99E-06	8.34E-05	2.0496E-03
519979.21	4258288.1	9266.24954	0.14324	1.67597	0.14813	1.55614	1.86E-03	5.86E-06	5.99E-05	6.07E-06	5.34E-05	1.9810E-03
519985.51	4258255.54	9242.89527	0.13339	1.82578	0.13772	1.68731	1.85E-03	5.46E-06	6.53E-05	5.64E-06	5.79E-05	1.9853E-03
519810.69	4258807.07	9239.13126	0.20486	0.28565	0.21321	0.27942	1.85E-03	8.39E-06	1.02E-05	8.73E-06	9.59E-06	1.8872E-03
519929.69	4258570.3	9230.2262	0.27779	0.82342	0.30089	0.78623	1.85E-03	1.14E-05	2.95E-05	1.23E-05	2.70E-05	1.9286E-03
519949.52	4258531.42	9226.61256	0.28431	1.04888	0.30744	0.98896	1.85E-03	1.16E-05	3.75E-05	1.26E-05	3.40E-05	1.9435E-03
519800.77	4258831.1	9215.91684	0.20072	0.2645	0.20835	0.25904	1.85E-03	8.22E-06	9.46E-06	8.53E-06	8.89E-06	1.8807E-03
520038.44	4259558.26	9214.92422	6.59381	0.09304	10.38266	0.09125	1.85E-03	2.70E-04	3.33E-06	4.25E-04	3.13E-06	2.5470E-03
519971.77	4258341.11	9212.19228	0.16361	1.51317	0.16924	1.40975	1.84E-03	6.70E-06	5.41E-05	6.93E-06	4.84E-05	1.9610E-03
520096.97	4257993.95	9211.90676	0.0972	18.12302	0.09869	18.37007	1.84E-03	3.98E-06	6.48E-04	4.04E-06	6.31E-04	3.1317E-03
519959.4	4258502.29	9196.64156	0.27507	1.20778	0.29593	1.12923	1.84E-03	1.13E-05	4.32E-05	1.21E-05	3.88E-05	1.9471E-03
520108.11	4257974.88	9191.18774	0.09545	11.34093	0.09632	13.25142	1.84E-03	3.91E-06	4.06E-04	3.94E-06	4.55E-04	2.7091E-03
520003.5	4258188.2	9182.01906	0.11839	2.42265	0.12264	2.19267	1.84E-03	4.85E-06	8.67E-05	5.02E-06	7.53E-05	2.0106E-03
520795.64	4258566.91	9179.07729	0.0933	0.09085	0.09079	0.09378	1.84E-03	3.82E-06	3.25E-06	3.72E-06	3.22E-06	1.8522E-03
520073.53	4259579.43	9176.91376	14.01962	0.09365	15.29984	0.09085	1.84E-03	5.74E-04	3.35E-06	6.26E-04	3.12E-06	3.0447E-03
519887.12	4258646.05	9174.82797	0.24589	0.53331	0.26231	0.51949	1.84E-03	1.01E-05	1.91E-05	1.07E-05	1.78E-05	1.8951E-03
519966.23	4258466.09	9173.17028	0.24986	1.35425	0.26537	1.25654	1.84E-03	1.02E-05	4.84E-05	1.09E-05	4.31E-05	1.9497E-03
519970.5	4258351.62	9172.05425	0.16829	1.48644	0.17415	1.38533	1.84E-03	6.89E-06	5.32E-05	7.13E-06	4.76E-05	1.9516E-03
519939.61	4258550.86	9170.87981	0.28145	0.9259	0.3042	0.87931	1.84E-03	1.15E-05	3.31E-05	1.25E-05	3.02E-05	1.9239E-03
519992.55	4258222.68	9169.81687	0.12493	2.03179	0.12884	1.86413	1.84E-03	5.12E-06	7.27E-05	5.28E-06	6.40E-05	1.9834E-03
519845.6	4258727.71	9156.44241	0.22008	0.3773	0.23109	0.36772	1.83E-03	9.01E-06	1.35E-05	9.46E-06	1.26E-05	1.8783E-03
519968.92	4258386.77	9154.02493	0.18797	1.44673	0.19508	1.34722	1.83E-03	7.70E-06	5.17E-05	7.99E-06	4.63E-05	1.9469E-03
519877.12	4258664.6	9152.52742	0.23879	0.48847	0.25301	0.47652	1.83E-03	9.78E-06	1.75E-05	1.04E-05	1.64E-05	1.8869E-03
519815.06	4258793.63	9150.26747	0.20541	0.29685	0.21388	0.29029	1.83E-03	8.41E-06	1.06E-05	8.76E-06	9.97E-06	1.8702E-03
519986.38	4258245.19	9149.26541	0.13	1.84963	0.13412	1.70791	1.83E-03	5.32E-06	6.62E-05	5.49E-06	5.86E-05	1.9679E-03
519968.57	4258411.89	9144.65833	0.20531	1.43072	0.21379	1.33004	1.83E-03	8.41E-06	5.12E-05	8.75E-06	4.57E-05	1.9453E-03
520794.31	4258452.29	9144.34753	0.09315	0.09201	0.09044	0.09548	1.83E-03	3.81E-06	3.29E-06	3.70E-06	3.28E-06	1.8454E-03
520020.36	4258141.29	9140.88848	0.11118	3.3309	0.11658	2.92466	1.83E-03	4.55E-06	1.19E-04	4.77E-06	1.00E-04	2.0595E-03
520787.99	4258487.44	9134.14999	0.09466	0.09339	0.0917	0.09671	1.83E-03	3.88E-06	3.34E-06	3.75E-06	3.32E-06	1.8435E-03
520028.53	4259558.27	9119.36458	4.75639	0.09212	6.38938	0.09052	1.83E-03	1.95E-04	3.30E-06	2.62E-04	3.11E-06	2.2890E-03
520010.47	4258165.34	9118.70179	0.1143	2.73877	0.11904	2.45173	1.83E-03	4.68E-06	9.80E-05	4.87E-06	8.42E-05	2.0178E-03
520050.5	4258074.01	9115.86746	0.10377	7.73284	0.10865	5.90757	1.83E-03	4.25E-06	2.77E-04	4.45E-06	2.03E-04	2.3137E-03
520791.1	4258469.75	9112.84737	0.09391	0.09274	0.09107	0.09614	1.82E-03	3.85E-06	3.32E-06	3.73E-06	3.30E-06	1.8392E-03
519867.12	4258683.15	9105.61893	0.23174	0.44955	0.24455	0.43844	1.82E-03	9.49E-06	1.61E-05	1.00E-05	1.51E-05	1.8742E-03
520063.63	4259579.45	9088.08683	14.7088	0.09262	29.17623	0.09021	1.82E-03	6.02E-04	3.31E-06	1.19E-03	3.10E-06	3.6233E-03
520098.29	4257984.85	9057.52745	0.09557	16.98966	0.09692	17.78398	1.81E-03	3.91E-06	6.08E-04	3.97E-06	6.11E-04	3.0400E-03
520059.57	4258053.82	9052.75742	0.10151	11.8343	0.10573	7.79413	1.81E-03	4.16E-06	4.23E-04	4.33E-06	2.68E-04	2.5123E-03
520038.45	4259568.26	9046.83487	6.78536	0.09171	10.95257	0.08995	1.81E-03	2.78E-04	3.28E-06	4.48E-04	3.09E-06	2.5444E-03
519993.36	4258212.35	9044.7432	0.12186	2.05745	0.12567	1.88502	1.81E-03	4.99E-06	7.36E-05	5.15E-06	6.47E-05	1.9598E-03
519899.89	4258618.91	9025.0365	0.25304	0.60311	0.2717	0.58573	1.81E-03	1.04E-05	2.16E-05	1.11E-05	2.01E-05	1.8706E-03
520790.44	4258523.96	9024.35512	0.09424	0.09274	0.09138	0.09577	1.81E-03	3.86E-06	3.32E-06	3.74E-06	3.29E-06	1.8215E-03
520073.55	4259589.43	9008.68365	13.47585	0.09231	14.54339	0.08957	1.80E-03	5.52E-04	3.30E-06	5.95E-04	3.08E-06	2.9577E-03
519966.38	4258441.47	9000.30575	0.22666	1.37529	0.23782	1.27769	1.80E-03	9.28E-06	4.92E-05	9.74E-06	4.39E-05	1.9145E-03
519803.9	4258814.74	8989.96271	0.19854	0.27457	0.20624	0.26877	1.80E-03	8.13E-06	9.82E-06	8.44E-06	9.23E-06	1.8360E-03
520790.78	4258514.83	8984.51318	0.09414	0.0927	0.09124	0.09578	1.80E-03	3.85E-06	3.32E-06	3.74E-06	3.29E-06	1.8135E-03
519959.36	4258492.59	8982.68706	0.26474	1.21761	0.28385	1.13808	1.80E-03	1.08E-05	4.36E-05	1.16E-05	3.91E-05	1.9040E-03
519839.13	4258736.23	8976.09505	0.21431	0.36067	0.22456	0.35181	1.80E-03	8.77E-06	1.29E-05	9.19E-06	1.21E-05	1.8405E-03
519962.78	4258474.49	8970.95114	0.25243	1.28892	0.26905	1.19979	1.80E-03	1.03E-05	4.61E-05	1.10E-05	4.12E-05	1.9052E-03
520108.14	4257964.88	8964.35861	0.09342	11.34151	0.09424	13.27536	1.80E-03	3.82E-06	4.06E-04	3.86E-06	4.56E-04	2.6643E-03
520791.12	4258505.7	8963.18617	0.09403	0.09262	0.09111	0.09576	1.80E-03	3.85E-06	3.31E-06	3.73E-06	3.29E-06	1.8092E-03
519860.91	4258692.29	8960.72871	0.22586	0.42876	0.23823	0.41796	1.79E-03	9.25E-06	1.53E-05	9.75E-06	1.43E-05	1.8432E-03
520791.46	4258496.57	8960.48903	0.09393	0.09255	0.09101	0.09575	1.79E-03	3.85E-06	3.31E-06	3.73E-06	3.29E-06	1.8086E-03
520028.55	4259568.27	8954.55006	4.86811	0.09081	6.60112	0.08924	1.79E-03	1.99E-04	3.25E-06	2.70E-04	3.06E-06	2.2692E-03
520011.05	4258155.12	8953.39691	0.11164	2.76509	0.11639	2.47229	1.79E-03	4.57E-06	9.89E-05	4.77E-06	8.49E-05	1.9862E-03
519809.81	4258599.47	8944.34895	0.25907	0.6676	0.27963	0.64511	1.79E-03	1.06E-05	2.39E-05	1.14E-05	2.21E-05	1.8593E-03
519833.53	4258746.84	8940.22306	0.21103	0.3457	0.22077	0.3374	1.79E-03	8.64E-06	1.24E-05	9.04E-06	1.16E-05	1.8320E-03
520063.65	4259589.45	8922.5916	14.4781	0.0913	26.94141	0.08894	1.79E-03	5.93E-04	3.27E-06	1.10E-03	3.05E-06	3.4891E-03
519994.11	4258202.06	8914.47694	0.11891	2.07672	0.12263	1.90169	1.79E-03	4.87E-06	7.43E-05	5.02E-06	6.53E-05	1.9347E-03
520797.74	4258461.3	8911.78299	0.09246	0.09122	0.08975	0.09457	1.78E-03	3.79E-06	3.26E-06	3.67E-06	3.25E-06	1.7987E-03
520794.56	4258478.82	8907.95756	0.0932	0.09189	0.09037	0.09517	1.78E-03	3.82E-06	3.29E-06

520800.09	4258533.47	8685.76217	0.09218	0.09037	0.0895	0.09325	1.74E-03	3.77E-06	3.23E-06	3.66E-06	3.20E-06	1.7533E-03
519848.29	4258710.1	8675.83386	0.21495	0.3909	0.22589	0.38128	1.74E-03	8.80E-06	1.40E-05	9.25E-06	1.31E-05	1.7826E-03
519977.73	4258248.76	8674.66154	0.12731	1.63443	0.13127	1.52116	1.74E-03	5.21E-06	5.85E-05	5.37E-06	5.22E-05	1.8585E-03
520033.94	4259589.5	8665.97333	6.10968	0.08858	9.29212	0.08698	1.74E-03	2.50E-04	3.17E-06	3.80E-04	2.99E-06	2.3722E-03
520049.79	4258053.79	8659.7136	0.09886	7.48118	0.10351	5.70835	1.73E-03	4.05E-06	2.68E-04	4.24E-06	1.96E-04	2.2061E-03
520059.64	4258033.82	8643.83059	0.09709	11.78613	0.10102	7.76828	1.73E-03	3.98E-06	4.22E-04	4.14E-06	2.67E-04	2.4274E-03
519811.44	4258785.04	8635.90186	0.1967	0.29577	0.20449	0.28938	1.73E-03	8.05E-06	1.06E-05	8.37E-06	9.93E-06	1.7664E-03
520098.35	4257964.85	8630.39604	0.09159	17.00253	0.0928	17.84891	1.73E-03	3.75E-06	6.08E-04	3.80E-06	6.13E-04	2.9568E-03
520800.43	4258524.34	8628.65184	0.09207	0.09043	0.08935	0.09333	1.73E-03	3.77E-06	3.23E-06	3.66E-06	3.20E-06	1.7419E-03
519984.55	4258215.99	8613.38912	0.11942	1.80161	0.12294	1.66492	1.72E-03	4.89E-06	6.44E-05	5.03E-06	5.72E-05	1.8565E-03
519949.44	4258512.03	8612.49906	0.26443	1.06738	0.28406	1.00591	1.72E-03	1.08E-05	3.82E-05	1.16E-05	3.45E-05	1.8199E-03
520063.68	4259609.45	8605.38064	13.80921	0.08876	23.1832	0.0865	1.72E-03	5.65E-04	3.17E-06	9.49E-04	2.97E-06	3.2441E-03
519963.34	4258344.59	8593.14387	0.15927	1.35759	0.16433	1.27261	1.72E-03	6.52E-06	4.86E-05	6.73E-06	4.37E-05	1.8264E-03
520002.23	4258158.76	8591.90534	0.1095	2.35647	0.11352	2.13449	1.72E-03	4.48E-06	8.43E-05	4.65E-06	7.33E-05	1.8873E-03
520800.77	4258515.21	8589.32955	0.09197	0.09041	0.08922	0.09336	1.72E-03	3.77E-06	3.23E-06	3.65E-06	3.21E-06	1.7340E-03
519899.85	4258609.21	8582.40452	0.24638	0.6095	0.26454	0.59174	1.71E-03	1.01E-05	2.18E-05	1.08E-05	2.03E-05	1.7818E-03
520024.04	4259589.51	8579.86585	4.41989	0.08775	5.86682	0.0863	1.72E-03	1.81E-04	3.14E-06	2.40E-04	2.96E-06	2.1455E-03
520801.11	4258506.07	8568.50003	0.09188	0.09034	0.08911	0.09334	1.72E-03	3.76E-06	3.23E-06	3.65E-06	3.20E-06	1.7298E-03
520801.46	4258496.94	8564.78883	0.09179	0.09026	0.08901	0.09331	1.72E-03	3.76E-06	3.23E-06	3.64E-06	3.20E-06	1.7291E-03
519961.94	4258379.47	8562.15274	0.1769	1.32553	0.18298	1.24218	1.71E-03	7.24E-06	4.74E-05	7.49E-06	4.26E-05	1.8195E-03
519961.72	4258404.27	8557.80579	0.19238	1.31535	0.1996	1.23018	1.71E-03	7.88E-06	4.70E-05	8.17E-06	4.22E-05	1.8191E-03
520108.2	4257944.88	8540.73115	0.0896	11.32107	0.09032	13.32047	1.71E-03	3.67E-06	4.05E-04	3.70E-06	4.57E-04	2.5800E-03
520073.6	4259619.43	8531.6094	12.2302	0.08848	12.508	0.08591	1.71E-03	5.00E-04	3.16E-06	5.12E-04	2.95E-06	2.2273E-03
519841.9	4258718.8	8529.83704	0.20969	0.37372	0.21988	0.36474	1.71E-03	8.59E-06	1.34E-05	9.00E-06	1.25E-05	1.7517E-03
519961.26	4258429.65	8527.47625	0.21018	1.2967	0.21936	1.21071	1.71E-03	8.61E-06	4.64E-05	8.98E-06	4.16E-05	1.8133E-03
519959.56	4258458.05	8515.8988	0.23155	1.25234	0.24464	1.16925	1.71E-03	9.48E-06	4.48E-05	1.00E-05	4.01E-05	1.8099E-03
520033.96	4259599.5	8513.27595	6.27546	0.08736	9.75832	0.08579	1.70E-03	2.57E-04	3.12E-06	4.00E-04	2.95E-06	2.3675E-03
520804.59	4258479.31	8513.18824	0.0911	0.08958	0.0884	0.09272	1.70E-03	3.73E-06	3.20E-06	3.62E-06	3.18E-06	1.7186E-03
519800.21	4258805.95	8506.61892	0.19026	0.27384	0.19731	0.26817	1.70E-03	7.79E-06	9.79E-06	8.08E-06	9.21E-06	1.7384E-03
519985.37	4258205.66	8505.2372	0.11658	1.82032	0.11996	1.68085	1.70E-03	4.77E-06	6.51E-05	4.91E-06	5.77E-05	1.8358E-03
520806.47	4258542.11	8500.1315	0.09084	0.08878	0.0883	0.09157	1.70E-03	3.72E-06	3.18E-06	3.62E-06	3.14E-06	1.7159E-03
519909.77	4258589.78	8498.54102	0.25168	0.67561	0.27152	0.65171	1.70E-03	1.03E-05	2.42E-05	1.11E-05	2.24E-05	1.7699E-03
519991.95	4258182.97	8492.74386	0.11246	2.00103	0.11588	1.83563	1.70E-03	4.60E-06	7.16E-05	4.74E-06	6.30E-05	1.8447E-03
520049.82	4258043.79	8466.39703	0.0967	7.46664	0.10121	5.69014	1.70E-03	3.96E-06	2.67E-04	4.14E-06	1.95E-04	2.1660E-03
520063.7	4259619.45	8453.44406	15.30187	0.08754	21.59285	0.08532	1.69E-03	6.27E-04	3.13E-06	8.84E-04	2.93E-06	3.2096E-03
520059.67	4258023.82	8453.28413	0.09503	11.7595	0.09879	7.78925	1.69E-03	3.89E-06	4.21E-04	4.04E-06	2.67E-04	2.3889E-03
520002.83	4258148.52	8445.72991	0.10702	2.37794	0.11107	2.15133	1.69E-03	4.38E-06	8.51E-05	4.55E-06	7.39E-05	1.8592E-03
520024.06	4259599.51	8429.9877	4.50212	0.08655	6.03702	0.08512	1.69E-03	1.84E-04	3.10E-06	2.47E-04	2.92E-06	2.1258E-03
520098.38	4257954.85	8429.70678	0.08972	16.99525	0.09085	17.89593	1.69E-03	3.67E-06	6.08E-04	3.72E-06	6.14E-04	2.9178E-03
519919.69	4258570.34	8423.22993	0.25631	0.75176	0.27599	0.72115	1.69E-03	1.05E-05	2.69E-05	1.13E-05	2.48E-05	1.7603E-03
519939.52	4258531.47	8413.37607	0.26239	0.94297	0.28203	0.89516	1.68E-03	1.07E-05	3.37E-05	1.15E-05	3.07E-05	1.7716E-03
519986.13	4258195.36	8391.78156	0.11384	1.83219	0.11709	1.69148	1.68E-03	4.66E-06	6.55E-05	4.79E-06	5.81E-05	1.8136E-03
519929.61	4258550.9	8380.75071	0.25984	0.8394	0.27918	0.80155	1.68E-03	1.06E-05	3.00E-05	1.14E-05	2.75E-05	1.7580E-03
519835.46	4258727.38	8379.70208	0.20448	0.35756	0.21394	0.34922	1.68E-03	8.37E-06	1.28E-05	8.76E-06	1.20E-05	1.7201E-03
519949.4	4258502.33	8372.37702	0.25504	1.07563	0.27306	1.01368	1.68E-03	1.04E-05	3.85E-05	1.12E-05	3.48E-05	1.7716E-03
519992.7	4258172.68	8367.20354	0.1099	2.01927	0.11328	1.85054	1.68E-03	4.50E-06	7.22E-05	4.64E-06	6.35E-05	1.8205E-03
519877.12	4258646.05	8364.76888	0.228	0.4978	0.24248	0.48617	1.68E-03	9.34E-06	1.78E-05	9.93E-06	1.67E-05	1.7289E-03
520033.98	4259609.5	8364.72698	6.42369	0.08616	10.26254	0.08462	1.68E-03	2.63E-04	3.08E-06	4.20E-04	2.91E-06	2.3643E-03
520070.31	4259629.84	8350.57319	12.64934	0.08693	13.73692	0.08452	1.67E-03	5.18E-04	3.11E-06	5.62E-04	2.90E-06	2.7587E-03
519867.12	4258664.6	8348.60193	0.22158	0.45773	0.23426	0.44762	1.67E-03	9.07E-06	1.64E-05	9.59E-06	1.54E-05	1.7223E-03
519973.75	4258240.42	8348.25058	0.12277	1.54942	0.12646	1.4464	1.67E-03	5.03E-06	5.14E-05	5.18E-06	4.97E-05	1.7871E-03
519829.76	4258737.74	8345.33736	0.20125	0.343	0.21017	0.33515	1.67E-03	8.24E-06	1.23E-05	8.61E-06	1.15E-05	1.7119E-03
520808.02	4258488.31	8343.84675	0.09041	0.08877	0.08773	0.0918	1.67E-03	3.70E-06	3.18E-06	3.59E-06	3.15E-06	1.6846E-03
519965.74	4258283.67	8341.81323	0.13429	1.4027	0.13834	1.31575	1.67E-03	5.50E-06	5.02E-05	5.66E-06	4.52E-05	1.7771E-03
520108.23	4257934.88	8341.03208	0.0878	11.30504	0.08846	13.32766	1.67E-03	3.59E-06	4.04E-04	3.62E-06	4.58E-04	2.5395E-03
519814.56	4258768.65	8336.43542	0.19406	0.30658	0.2018	0.29994	1.67E-03	7.95E-06	1.10E-05	8.26E-06	1.03E-05	1.7070E-03
519966.96	4258273.18	8317.23167	0.13101	1.42308	0.13498	1.33445	1.67E-03	5.36E-06	5.09E-05	5.53E-06	4.58E-05	1.7732E-03
519857.12	4258683.15	8313.33045	0.21515	0.42278	0.22661	0.41327	1.66E-03	8.81E-06	1.51E-05	9.28E-06	1.42E-05	1.7123E-03
519958.39	4258388.1	8301.57092	0.1789	1.26814	0.18499	1.19031	1.66E-03	7.32E-06	4.54E-05	7.57E-06	4.09E-05	1.7636E-03
519958.46	4258363.67	8293.29343	0.16532	1.27523	0.17057	1.19846	1.66E-03	6.77E-06	4.56E-05	6.98E-06	4.11E-05	1.7614E-03
519793.42	4258813.64	8291.55989	0.18463	0.26353	0.19115	0.25822	1.66E-03	7.56E-06	9.43E-06	7.83E-06	8.86E-06	1.6942E-03
520024.08	4259609.51	8284.14679	4.57352	0.08537	6.21031	0.08397	1.66E-03	1.87E-04	3.05E-06	2.54E-04	2.88E-06	2.1065E-03
520049.85	4258033.79	8280.59908	0.09463	7.45115	0.099	5.67487	1.66E-03	3.87E-06	2.67E-04	4.05E-06	1.95E-04	2.1276E-03
519968.07	4258262.74	8277.73503	0.12781	1.44114	0.13167	1.35084	1.66E-03	5.23E-06	5.15E-05	5.39E-06	4.64E-05	1.7663E-03
519974.78	4258230.01	8277.19192	0.11987	1.57246	0.1234	1.46573	1.66E-03	4.91E-06	5.62E-05	5.05E-06	5.03E-05	1.7741E-03
520060.41	4259629.86	8274.43994	14.2798	0.086	25.60142	0.08393	1.66E-03	5.85E-04	3.08E-06	1.05E-03	2.88E-06	3.2959E-03
519958.12	4258413.02	8267.84038	0.1945	1.25572	0.2019	1.17667	1.66E-03	7.96E-06	4.49E-05	8.27E-06	4.04E-05	1.7573E-03
520059.7	4258013.82	8262.04532	0.093	11.73031	0.09665	7.73232	1.65E-03	3.81E-06	4.20E-04	3.96E-06	2.65E-04	2.3474E-03
520810.42	4258524.71	8257.98298	0.08997	0.0881	0.08738	0.09089	1.65E-03	3.68E-06	3.15E-06	3.58E-06	3.12E-06	1.6673E-03
519957.6	4258438.55	8252.08557	0.21251	1.23575	0.22243	1.15629	1.65E-03	8.70E-06	4.42E-05	9.11E-06	3.97E-05	1.7543E-03
519993.41	4258162.4	8239.99635	0.10742	2.03771	0.1108	1.86525	1.65E-03	4.40E-06	7.29E-05	4.54E-06	6.40E-05	1.7960E-03
519889.89	4258618.95	8235.40739	0.23443	0.5597	0.25066	0.54512	1.65E-03	9.60E-06	2.00E-05	1.03E-05	1.87E-05	1.7078E-03
520098.41	4257944.85	8234.79901	0.0879	16.98183	0.08897	17.9227	1.65E-03	3.60E-06	6.07E-04	3.64E-06	6.15E-04	2.8791E-03
519803.25	4258789.38	8230.10061	0.18775	0.28367	0.19473	0.27778	1.65E-03	7.69E-06	1.01E-05	7.97E-06	9.54E-06	1.6835E-03
519969.08	4258252.33	8225.20857	0.1247	1.45875	0.12845	1.36647	1.65E-03	5.11E-06	5.22E-05	5.26E-06	4.69E-05	1.7567E-03
519961.01	4258305.6	8221.48515	0.14033	1.32253	0.14438	1.24371	1.65E-03	5.75E-06	4.73E-05	5.91E-06	4.27E-05	1.7481E-03
520033.99	4259619.5	8220.1895	6.4907	0.085	10.75897	0.08349	1.65E-03	2.66E-04	3.04E-06	4.41E-04	2.87E-06	2.3584E-03
520810.77	4258515.58	8219.78912	0.08988	0.08813	0.08726	0.09095	1.65E-03	3.68E-06	3.15E-06	3.57E-06	3.12E-06	1.6597E-03
519962.16	4258295.14	8218.2439	0.13682	1.34204	0.1408	1.26124	1.65E-03	5.60E-06	4.80E-05	5.76E-06	4.33E-05	1.7485E-03
519959.73	4258316.12	8205.40008	0.14391	1.30057	0.14803	1.22383	1.64E-03	5.89E-06	4.65E-05	6.06E-06	4.20E-05	1.7437E-03
520070.33	4259639.84	8204.8411	12.85691	0.08573	13.08477	0.08338	1.64E-03	5.26E-04	3.07E-06	5.36E-04	2.86E-06	2.7112E-03
520811.11	4258506.45	8198.90697	0.0898	0.08809	0.08716	0.09096	1.64E-03	3.68E-06	3.15E-06	3.57E-06	3.12E-06	1.6555E-03
519823.33	4258746.35	8198.42087	0.19626	0.32873	0.20456	0.32142	1.64E-03	8.04E-06	1.18E-05	8.38E-06	1.10E-05	1.6810E-03
519975.74	4258219.63	8197.1414	0.11705	1.59166	0.12042	1.48204	1.64E-03	4.79E-06	5.69E-05	4.93E-06	5.09E-05	1.7591E-03
520811.45	4258497.32	8194.78395	0.08972	0.08801	0.08708	0.09093	1.64E-03	3.67E-06	3.15E-06	3.57E-06	3.12E-06	1.6546E-03
519850.88	4258802.21	8181.65504	0.20967	0.40393	0.22076	0.39458	1.64E-03	8.58E-06	1.44E-05	9.04E-06	1.35E-05	1.6841E-03
519949.36	4258492.63	8180.97518	0.2462	1.08384	0.26284	1.02119	1.64E-03	1.01E-05	3.88E-05	1.08E-05	3.51E-05	1.7330E-03
519899.81	4258599.52	8172.26441	0.23984	0.61622	0.25753	0.59761	1.64E-03	9.82E-06	2.20E-05	1.05E-05	2.05E-05	1.6995E-03
519958.3	4258326.69	8167.12555	0.14755	1.27765	0.15179	1.20282	1.64E-03	6.04E-06	4.57E-05	6.21E-06	4.13E-05	1.7348E-03
519952.73	4258474.64	8153.56106	0.23579	1.1422	0.25062	1.07252	1.63E-03	9.65E-06	4.09E-05	1.03E-05	3.68E-05	1.7305E-03
520108.26	4257924.88	8149.80056	0.08606	11.28447	0.08667	13.35796	1.63E-03	3.52E-06	4.04E-04	3.55E-06	4.59E-04	2.5014E-03
520024.09	4259619.51	8142.1185	4.62133	0.08423	6.37637	0.08284	1.63E-03	1.89E-04	3.01E-06	2.61E-04	2.84E-06	2.0867E-03
519807.83	4258776.44	8138.62067	0.18849	0.29434	0.19566	0.28816	1.63E-03	7.72E-06	1.05E-05	8.01E-06	9.89E-06	1.6660E-03
519939.48	4258521.77	8134.10583	0.25381	0.9512	0.27213	0.90258	1.63E-03	1.04E-05	3.40E-05	1.11E-05	3.10E-05	1.7155E-03
520060.43	4259639.86	8131.62282	13.87968	0.08485	23.71832	0.08282	1.63E-03	5.68E-04	3.03E-06	9.71E-04	2.84E-06	3.1738E-03
519983	4258186.67	8113.86371	0.11027	1.74587	0.1133	1.61567	1.62E-03	4.51E-06	6.24E-05	4.64E-06	5.55E-05	1.7520E-03
519994.07	4258152.14	8111.30278	0.10504	2.05493	0.10842	1.87871	1.62E-03	4.30E-06	7.35E-05	4.44E-06	6.45E-05	1.7711E-03
519976.62	4258209.27	8109.26556	0.11432	1.60981	0.11753	1.49711	1.62E-03	4.68E-06	5.76E-05	4.81E-06	5.14E-05	1.7425E-03
519956.71	4258337.34	8106.90069	0.15126	1.25289	0.15565	1.18009	1.62E-03	6.19E-06	4.48E-05	6.37E-06	4.05E-05	1.7214E-03
520049.88	4258023.79	8100.21619	0.09263	7.43587	0.09686	5.65535	1.62E-03	3.79E-06	2.66E-04	3.97E-06	1.94E-04	2.0901E-03
519909.73	4258580.08	8098.02581	0.24457	0.68274	0.26295	0.6581	1.62E-03	1.00E-05	2.44E-05	1.08E-05	2.26E-05	1.6895E-03
520059.73	4258003.82	8083.33495	0.09108	11.7036	0.09459	7.74149	1.62E-03	3.73E-06	4.19E-04	3.87E-06	2.66E-04	2.3108E-03
519844.57	4258701.11	8064.82291	0.20482	0.38622	0.21513	0.37741	1.62E-03	8.39E-06	1.38E-05	8.81E-06	1.30E-05	1.6591E-03
520070.34	4259649.84	8063.69044	12.27416	0.08458	12.35062	0.08228	1.61E-03	5.03E-04	3.03E-06	5.06E-04	2.82E-06	2.6290E-03
520030.71	4259629.91	8048.6814	5.86285	0.08356	9.18232	0.08212	1.61E-03	2.40E-04	2.99E-06	3.76E-04	2.82E-06	2.2337E-03
520098.45	4257934.85	8048.01104	0.08615	16.94831	0.08716	17.92595	1.61E-03	3.53E-06	6.06E-04	3.57E-06	6.15E-04	2.8405E-03
519954.95	4258372.2	8045.71418	0.167	1.22088	0.17221	1.14975	1.61E-03	6.84E-06	4.37E-05	7.05E-06	3.95E-05	1.7083E-03
519919.65	4258560.64	8038.41786	0.24843	0.75874	0.26635	0.72786	1.61E-03	1.02E-05	2.71E-05	1.09E-05	2.50E-05	1.6830E-03
519796.51	4258797.17	8034.27281	0.18239	0.27282	0.18885	0.2673	1.61E-03	7.47E-06	9.76E-06	7.73E-06	9.18E-06	1.6431E-03
519954.84	4258396.74	8031.60228	0.18081	1.21359	0.18695	1.14104	1.61E-03	7.40E-06	4.34E-05	7.65E-06	3.92E-05	1.7061E-03
519929.57	4258541.21	8023.32854	0.25123	0.84654	0.26917	0.80842	1.61E-03	1.03E-05	3.03E-05	1.10E-05	2.78E-05	1.6861E-03
519949.32	4258482.94	8016.58202	0.23757	1.09177	0.25292	1.02821	1.61E-03	9.73E-06	3.91E-05	1.04E-05	3.53E-05	1.6999E-03
519977.44	4258198.95	8015.20808	0.11169	1.62338	0.11474	1.50909	1.61E-03	4.57E-06	5.81E-05	4.70E-06	5.18E-05	1.7243E-03
519983.82	4258176.34	8007.46689	0.10781	1.76759	0.11077	1.63371	1.60E-03	4.41E-06	6.32E-05	4.54E-06	5.61E-05	1.7319E-03
519953.95	4258447.43	8006.95622	0.21481	1.17847	0.22567	1.1053	1.60E-03	8.80E-06	4.22E-05	9.24E-06	3.79E-05	1.7016E-03
519877.12	4258636.77	8003.58857	0.22294	0.50246	0.23739	0.49075	1.60E-03	9.13E-06	1.80E-05	9.72E-06	1.68E-05	1.6565E-03
519867.12	4258655.32	7994.92981	0.21679	0.46177	0.22959	0.45188	1.60E-03	8.88E-06	1.65E-05	9.40E-06	1.55E-05	1.6514E-03
520060.44	4259649.86	7992.87876	13.05629	0.08373	21.94417	0.08174	1.60E-03	5.35E-04	2.99E-06	8.98E-04	2.81E-06	3.0395E-03
519954.52	4258421.77	7991.54412	0.19657	1.19975	0.20437	1.12622	1.60E-03	8.05E-06	4.29E-05	8.37E-06	3.87E-05	1.6984E-03
519857.12	4258673.87	7973.62767	0.21071	0.42632	0.22204	0.41739	1.60E-03	8.63E-06	1.52E-05	9.09E-06	1.43E-05	1.6441E-03
520020.81	4259629.93	7972.99576	4.24324	0.08281	5.71165	0.08149	1.60E-03	1.74E-04	2.96E-06	2.34E-04	2.80E-06	2.0101E-03
520108.3	4257914.88	7968.49903	0.08439	11.25308	0.08494	13.39592	1.60E-03	3.46E-06	4.03E-04	3.48E-06	4.60E-04	2.4651E-03
519838.21	4258709.89	7946.3763	0.2001	0.3696	0.20963	0.36135	1.59E-03	8.19E-06	1.32E-05	8.58E-06	1.24E-05	1.6338E-03
520049.91	4258013.79	7927.9075	0.09071	7.41896	0.09481	5.64438	1.59E-03	3.71E-06	2.65E-04	3.88E-06	1.94E-04	2.0544E-03
520070.36	4259659.84	7926.21375	11.86413	0.08345	11.62687	0.08121	1.59E-03	4.86E-04	2.98E-06	4.76E-04	2.79E-06	2.5549E-03
520059.76	4257993.82	7912.71333	0.08923	11.66949	0.09261	7.75046	1.58E-03	3.65E-06	4.17E-04	3.79E-06	2.66E-04	2.2756E-03
520030.72	4259639.91	7912.45533	5.9885	0.08245	9.58054	0.08104	1.58E-03	2.45E-04	2.95E-06	3.92E-04	2.78E-06	2.2278E-03
519964.79	4258244.12	7906.64665	0.1202	1.37871	0.12364	1.29528	1.58E-03	4.92E-06	4.93E-05	5.06E-06	4.45E-05	1.6872E-03
519984.59	4258166.04	7897.80866	0.10543	1.78349	0.10832	1.64656	1.58E-03	4.32E-06	6.38E-05	4.44E-06	5.65E-05	1.7107E-03
519939.44	4258512.07	7883.60014	0.24539	0.95867	0.26234	0.90951	1.58E-03	1.00E-05	3.43E-05	1.07E-05	3.12E-05	1.6651E-03
520098.48	4257904.85	7867.78037	0.08447	16.91475	0.08541	17.93534	1.58E-03	3.46E-06	6.05E-04	3.50E-06	6.16E-04	2.8033E-03
520060.46	4259659.86	7857.18692	13.14081	0.08261	20.70183	0.08066	1.57E-03	5.38E-04	2.95E-06	8.48E-04	2.77E-06	2.9649E-03
519965.9	4258233.67	7857.09264	0.11744	1.39963	0.12079	1.31331	1.57E-03	4.81E-06	5.01E-05	4.95E-06	4.51E-05	1.6784E-03
519889.85	4258609.26	7856.80545	0.2286	0.56521	0.24442	0.5503	1.57E-03	9.36E-06	2.02E-05	1.00E-05	1.89E-05	1.6319E-03
519956.86	4258287.34	7849.49494	0.13118	1.25864	0.1347	1.18681	1.57E-03	5.37E-06	4.50E-05	5.52E-06	4.07E-05	1.6686E-03
519958.16	4258276.81	7844.80856	0.12809	1.27695	0.13157	1.20384	1.57E-03	5.24E-06	4.57E-05	5.39E-06	4.13E-05	1.6687E-03
519789.75	4258804.91	7843.97199	0.1772	0.26261	0.18317	0.25743	1.57E-03	7.26E-06	9.39E-06	7.50E-06	8.84E-06	1.6038E-03
520020.82	4259639.93	7839.19433	4.29381	0.08172	5.83053	0.08042	1.57E-03	1.76E-04	2.92E-06	2.39E-04	2.76E-06	1.9901E-03
519810.93	4258760	7833.77852	0.18588	0.30467	0.19304	0.29829	1.57E-03	7.61E-06	1.09E-05	7.90E-06	1.02E-05	1.6055E-03
519959.35	4258266.34	7825.49647	0.12507	1.29399	0.12852	1.21943	1.57E-03	5.12E-06	4.63E-05	5.26E-06	4.19E-05	1.6657E-03
519831.79	4258718.53	7819.44011	0.19532	0.35394	0.20415	0.34619	1.57E-03	8.00E-06	1.27E-05	8.36E-06	1.19E-05	1.6069E-03
519951.44	4258380.73	7803.98326	0.16871	1.17077	0.1739	1.10426	1.56E-03	6.91E-06	4.19E-05	7.12E-06	3.79E-05	1.6567E-03
519951.42	4258356.51	7801.20926	0.1565	1.17549	0.16101	1.10988	1.56E-03	6.41E-06	4.20E-05	6.59E-06	3.81E-05	1.6554E-03
520061.08	4257984.72	7796.95998	0.08786	12.57583	0.09107	8.08682	1.56E-03	3.60E-06	4.50E-04	3.73E-06	2.98E-04	2.2962E-03
519966.93	4258223.26	7796.65888	0.11475	1.41792	0.11798	1.32869	1.56E-03	4.70E-06	5.07E-05	4.83E-06	4.56E-05	1.6672E-03
519899.77	4258589.82	7793.46269	0.23338	0.62311	0.25044	0.60332	1.56E-03	9.56E-06	2.23E-05	1.03E-05	2.07E-05	1.6236E-03
520070.38	4259669.84	7792.58681	11.1891	0.08236	10.84525	0.08016	1.56E-03	4.58E-04	2.95E-06	4.44E-04	2.75E-06	2.4684E-03
519960.43	4258255.9	7792.53952	0.12933	1.31109	0.12553	1.23445	1.56E-03	5.00E-06	4.69E-05	5.14E

520070.41	4259689.84	7535.60043	9.66126	0.08024	9.07552	0.07812	1.51E-03	3.96E-04	2.87E-06	3.72E-04	2.68E-06	2.2818E-03
520030.77	4259669.91	7525.25702	6.06188	0.07928	10.48165	0.07794	1.51E-03	2.48E-04	2.84E-06	4.29E-04	2.68E-06	2.1899E-03
520098.54	4257904.85	7523.51768	0.08125	16.84107	0.08209	17.7278	1.51E-03	3.33E-06	6.02E-04	3.36E-06	6.09E-04	2.7244E-03
519947.74	4258414	7506.52562	0.18441	1.11297	0.19106	1.04985	1.50E-03	7.55E-06	3.98E-05	7.82E-06	3.60E-05	1.5945E-03
519889.81	4258599.56	7504.24501	0.22283	0.57104	0.23829	0.55536	1.50E-03	9.12E-06	2.04E-05	9.76E-06	1.91E-05	1.5612E-03
520051.29	4257984.69	7500.62366	0.08581	7.75292	0.08947	5.82602	1.50E-03	3.51E-06	2.77E-04	3.66E-06	2.00E-04	1.9866E-03
519840.84	4258692.13	7500.25121	0.19542	0.38111	0.20537	0.37308	1.50E-03	8.00E-06	1.36E-05	8.41E-06	1.28E-05	1.5449E-03
519947.32	4258439.27	7498.61926	0.20054	1.09675	0.20978	1.03369	1.50E-03	8.21E-06	3.92E-05	8.59E-06	3.55E-05	1.5932E-03
519939.36	4258492.68	7490.50484	0.22961	0.97239	0.24409	0.92238	1.50E-03	9.40E-06	3.48E-05	9.99E-06	3.17E-05	1.5859E-03
519955.83	4258247.82	7488.45771	0.11769	1.23952	0.12078	1.17013	1.50E-03	4.82E-06	4.43E-05	4.95E-06	4.02E-05	1.5939E-03
520060.51	4259689.86	7472.35959	12.35362	0.07944	15.97227	0.07761	1.50E-03	5.06E-04	2.84E-06	6.54E-04	2.66E-06	2.6617E-03
519929.48	4258521.81	7472.04466	0.23573	0.86039	0.25149	0.82117	1.50E-03	9.65E-06	3.08E-05	1.03E-05	2.82E-05	1.5753E-03
519976.54	4258159.37	7468.49598	0.10127	1.59187	0.1038	1.47802	1.50E-03	4.15E-06	5.69E-05	4.25E-06	5.07E-05	1.6117E-03
520061.14	4257964.73	7465.92086	0.08439	12.53169	0.0874	7.96796	1.50E-03	3.46E-06	4.48E-04	3.58E-06	2.74E-04	2.2240E-03
519942.98	4258474.09	7460.44872	0.22066	1.02424	0.23374	0.96883	1.49E-03	9.03E-06	3.66E-05	9.57E-06	3.33E-05	1.5826E-03
520020.87	4259669.93	7458.42197	4.30148	0.0786	6.02906	0.07736	1.49E-03	1.76E-04	2.81E-06	2.47E-04	2.66E-06	1.9221E-03
519957.02	4258237.34	7455.10803	0.11505	1.25354	0.11809	1.18289	1.49E-03	4.71E-06	4.48E-05	4.84E-06	4.06E-05	1.5880E-03
520108.39	4257884.88	7452.15466	0.07968	11.1791	0.0801	13.45922	1.49E-03	3.26E-06	4.00E-04	3.28E-06	4.62E-04	2.3609E-03
518899.73	4258380.12	7447.23844	0.2271	0.62933	0.243	0.60876	1.49E-03	9.30E-06	2.25E-05	9.95E-06	2.09E-05	1.5541E-03
519958.12	4258226.9	7412.3993	0.11249	1.2724	0.11549	1.19867	1.48E-03	4.61E-06	4.55E-05	4.73E-06	4.12E-05	1.5804E-03
520070.43	4259699.84	7412.1206	8.76311	0.07921	8.11911	0.07714	1.48E-03	3.59E-04	2.83E-06	3.32E-04	2.65E-06	2.1811E-03
519786.08	4258796.19	7409.45156	0.17016	0.26143	0.17565	0.2564	1.48E-03	6.97E-06	9.35E-06	7.19E-06	8.80E-06	1.5162E-03
519834.51	4258700.97	7405.26362	0.1912	0.36003	0.20028	0.35754	1.48E-03	7.83E-06	1.31E-05	8.20E-06	1.23E-05	1.5244E-03
520030.79	4259679.91	7402.81775	6.02065	0.07827	10.63062	0.07696	1.48E-03	2.47E-04	2.80E-06	4.35E-04	2.64E-06	2.1697E-03
519909.65	4258560.68	7400.9787	0.23062	0.69562	0.24607	0.66997	1.48E-03	9.44E-06	2.49E-05	1.01E-05	2.30E-05	1.5495E-03
519949.36	4258280.45	7398.30495	0.1252	1.15315	0.12818	1.09189	1.48E-03	5.13E-06	4.12E-05	5.25E-06	3.75E-05	1.5707E-03
519919.57	4258541.25	7397.17552	0.2334	0.7713	0.24881	0.74008	1.48E-03	9.56E-06	2.76E-05	1.02E-05	2.54E-05	1.5541E-03
519950.63	4258269.94	7396.27518	0.12236	1.16845	0.12531	1.10609	1.48E-03	5.01E-06	4.18E-05	5.13E-06	3.80E-05	1.5711E-03
519965.1	4258194.05	7392.99394	0.10614	1.37479	0.10887	1.28937	1.48E-03	4.35E-06	4.92E-05	4.46E-06	4.43E-05	1.5828E-03
519947.98	4258291	7385.58057	0.12809	1.13611	0.13112	1.07611	1.48E-03	5.24E-06	4.06E-05	5.37E-06	3.69E-05	1.5673E-03
519951.78	4258259.47	7380.21868	0.11957	1.1828	0.12251	1.11917	1.48E-03	4.90E-06	4.23E-05	5.02E-06	3.84E-05	1.5686E-03
520098.57	4257894.85	7360.38047	0.07972	16.80408	0.08051	17.65778	1.47E-03	3.26E-06	6.01E-04	3.30E-06	6.06E-04	2.6878E-03
519959.13	4258216.49	7359.86411	0.10999	1.28683	0.11291	1.21096	1.47E-03	4.50E-06	4.60E-05	4.62E-06	4.16E-05	1.5706E-03
519944.48	4258373.4	7355.07039	0.1595	1.08467	0.16392	1.02734	1.47E-03	6.53E-06	3.88E-05	6.71E-06	3.53E-05	1.5603E-03
519807.29	4258751.35	7354.38277	0.1782	0.30238	0.18484	0.29631	1.47E-03	7.30E-06	1.08E-05	7.57E-06	1.02E-05	1.5087E-03
520060.53	4259699.86	7350.70615	11.03371	0.07844	13.78763	0.07663	1.47E-03	4.52E-04	2.81E-06	5.65E-04	2.63E-06	2.4938E-03
519867.12	4258636.77	7348.19059	0.20777	0.46984	0.22054	0.45997	1.47E-03	8.51E-06	1.68E-05	9.03E-06	1.58E-05	1.5217E-03
520051.32	4257974.69	7341.8536	0.08411	7.74161	0.08768	5.7963	1.47E-03	3.44E-06	2.77E-04	3.59E-06	1.99E-04	1.9532E-03
519944.17	4258349.89	7341.14022	0.14851	1.08414	0.15236	1.02808	1.47E-03	6.08E-06	3.88E-05	6.24E-06	3.53E-05	1.5566E-03
519939.32	4258482.98	7339.40504	0.22212	0.97896	0.23557	0.92837	1.47E-03	9.09E-06	3.50E-05	9.65E-06	3.19E-05	1.5554E-03
520020.89	4259679.93	7337.93586	4.26608	0.07761	6.00125	0.07639	1.47E-03	1.75E-04	2.78E-06	2.46E-04	2.62E-06	1.8953E-03
519857.12	4258655.32	7337.49849	0.20217	0.43335	0.21366	0.42495	1.47E-03	8.28E-06	1.55E-05	8.75E-06	1.46E-05	1.5165E-03
519966.06	4258183.67	7320.35955	0.10385	1.38871	0.10644	1.30093	1.47E-03	4.25E-06	4.97E-05	4.36E-06	4.47E-05	1.5689E-03
519847.12	4258673.87	7319.09416	0.19661	0.40136	0.20686	0.39375	1.47E-03	8.05E-06	1.44E-05	8.47E-06	1.35E-05	1.5101E-03
519944.42	4258397.79	7313.99113	0.17201	1.07845	0.17738	1.02	1.46E-03	7.04E-06	3.86E-05	7.26E-06	3.50E-05	1.5526E-03
520061.17	4257954.73	7310.8214	0.08276	12.51636	0.08567	7.92699	1.46E-03	3.39E-06	4.48E-04	3.51E-06	2.72E-04	2.1908E-03
519828.13	4258709.69	7300.58246	0.18686	0.34987	0.19522	0.34282	1.46E-03	7.65E-06	1.25E-05	7.99E-06	1.18E-05	1.5020E-03
519960.07	4258206.12	7299.85257	0.10757	1.29919	0.11038	1.22165	1.46E-03	4.40E-06	4.65E-05	4.52E-06	4.19E-05	1.5592E-03
519943.72	4258448.02	7295.5875	0.20244	1.04922	0.21248	0.99127	1.46E-03	8.29E-06	3.75E-05	8.70E-06	3.40E-05	1.5496E-03
520108.42	4257874.88	7294.95778	0.07823	11.14128	0.07859	13.46663	1.46E-03	3.20E-06	3.99E-04	3.22E-06	4.62E-04	2.3282E-03
520070.44	4259709.84	7291.81665	7.8666	0.07821	7.16082	0.07618	1.46E-03	3.22E-04	2.80E-06	2.93E-04	2.62E-06	2.0810E-03
519795.81	4258771.68	7286.06244	0.1725	0.28047	0.1784	0.275	1.46E-03	7.06E-06	1.00E-05	7.30E-06	9.44E-06	1.4930E-03
519945.11	4258302.18	7285.52685	0.13054	1.0999	0.13356	1.04325	1.46E-03	5.34E-06	3.93E-05	5.47E-06	3.58E-05	1.5450E-03
520030.81	4259689.91	7283.4377	5.95256	0.07728	10.62462	0.07599	1.46E-03	2.44E-04	2.76E-06	4.35E-04	2.61E-06	2.1427E-03
519944.18	4258422.63	7265.33986	0.18617	1.06677	0.19338	1.0079	1.45E-03	7.62E-06	3.82E-05	7.92E-06	3.46E-05	1.5433E-03
519822.21	4258719.55	7263.2403	0.18372	0.33605	0.19137	0.32941	1.45E-03	7.52E-06	1.20E-05	7.84E-06	1.13E-05	1.4932E-03
519929.44	4258512.11	7250.41231	0.22846	0.86679	0.24314	0.82706	1.45E-03	9.35E-06	3.10E-05	9.96E-06	2.84E-05	1.5307E-03
519943.8	4258312.7	7245.5484	0.13354	1.08136	0.13665	1.02675	1.45E-03	5.47E-06	3.87E-05	5.60E-06	3.52E-05	1.5360E-03
519966.95	4258173.32	7242.70025	0.10164	1.40442	0.10411	1.31378	1.45E-03	4.16E-06	5.02E-05	4.26E-06	4.51E-05	1.5542E-03
520060.54	4259709.86	7232.0975	9.57358	0.07745	11.39704	0.07568	1.45E-03	3.92E-04	2.77E-06	4.67E-04	2.60E-06	2.3123E-03
519879.85	4258609.3	7223.1348	0.21279	0.52594	0.22682	0.51317	1.45E-03	8.71E-06	1.88E-05	9.29E-06	1.76E-05	1.5010E-03
520020.91	4259689.93	7220.32485	4.23336	0.07662	5.89534	0.07543	1.45E-03	1.73E-04	2.74E-06	2.41E-04	2.59E-06	1.8660E-03
520098.6	4257884.85	7205.4782	0.07825	16.76329	0.07899	17.90194	1.44E-03	3.20E-06	6.00E-04	3.23E-06	6.15E-04	2.6636E-03
519800.59	4258759.26	7203.83546	0.17346	0.29053	0.17957	0.28486	1.44E-03	7.10E-06	1.04E-05	7.35E-06	9.78E-06	1.4773E-03
519942.36	4258323.29	7193.9934	0.13665	1.06376	0.13987	1.01069	1.44E-03	5.60E-06	3.80E-05	5.73E-06	3.47E-05	1.5248E-03
520051.35	4257964.69	7188.96235	0.08247	7.73221	0.08594	5.754	1.44E-03	3.38E-06	2.77E-04	3.52E-06	1.98E-04	1.9207E-03
519888.77	4258589.86	7179.15401	0.21716	0.57694	0.23205	0.56028	1.44E-03	8.89E-06	2.06E-05	9.50E-06	1.92E-05	1.4960E-03
520070.46	4259719.84	7174.61957	7.01039	0.07723	6.10521	0.07524	1.44E-03	2.87E-04	2.76E-06	2.50E-04	2.58E-06	1.9792E-03
520030.82	4259699.91	7167.03323	5.803	0.07632	10.28282	0.07505	1.44E-03	2.38E-04	2.73E-06	4.21E-04	2.58E-06	2.0992E-03
520061.2	4257944.73	7161.83804	0.08119	12.50865	0.08399	7.89996	1.43E-03	3.32E-06	4.47E-04	3.44E-06	2.71E-04	2.1596E-03
519967.78	4258162.99	7160.47962	0.09949	1.41739	0.10184	1.32414	1.43E-03	4.07E-06	5.07E-05	4.17E-06	4.55E-05	1.5384E-03
519815.84	4258728.3	7158.04355	0.17948	0.32266	0.18665	0.3163	1.43E-03	7.35E-06	1.15E-05	7.64E-06	1.09E-05	1.4709E-03
520108.45	4257864.88	7139.47084	0.0768	11.12303	0.07713	13.48321	1.43E-03	3.14E-06	3.98E-04	3.16E-06	4.63E-04	2.2968E-03
519789.12	4258779.6	7136.56743	0.16794	0.26993	0.1734	0.26478	1.43E-03	6.88E-06	9.66E-06	7.10E-06	9.09E-06	1.4619E-03
519899.69	4258570.42	7132.0117	0.2209	0.63516	0.2355	0.61399	1.43E-03	9.04E-06	2.27E-05	9.64E-06	2.11E-05	1.4908E-03
519941	4258381.84	7128.48	0.16095	1.04298	0.1654	0.98911	1.43E-03	6.59E-06	3.73E-05	6.77E-06	3.40E-05	1.5122E-03
519919.52	4258531.55	7128.30963	0.22634	0.77709	0.24082	0.74557	1.43E-03	9.27E-06	2.78E-05	9.86E-06	2.56E-05	1.5001E-03
519940.51	4258358.78	7126.60966	0.14992	1.04099	0.15371	0.98862	1.43E-03	6.14E-06	3.72E-05	6.29E-06	3.39E-05	1.5108E-03
519940.12	4258456.77	7117.77234	0.20417	1.00401	0.21488	0.95107	1.43E-03	8.36E-06	3.59E-05	8.80E-06	3.27E-05	1.5112E-03
520060.56	4259719.86	7116.51655	9.41125	0.07647	8.79644	0.07474	1.43E-03	3.85E-04	2.74E-06	3.60E-04	2.57E-06	2.1760E-03
519909.61	4258550.99	7106.01266	0.22393	0.70103	0.23817	0.67534	1.42E-03	9.17E-06	2.51E-05	9.75E-06	2.32E-05	1.4903E-03
520020.92	4259699.93	7105.73378	4.13191	0.07567	5.67516	0.07449	1.42E-03	1.69E-04	2.71E-06	2.32E-04	2.56E-06	1.8298E-03
519946.87	4258251.51	7089.2089	0.11519	1.11977	0.11782	1.06127	1.42E-03	4.72E-06	4.01E-05	4.82E-06	3.64E-05	1.5057E-03
519940.91	4258406.32	7078.23637	0.17362	1.03602	0.17933	0.98108	1.42E-03	7.11E-06	3.71E-05	7.34E-06	3.37E-05	1.5027E-03
519948.14	4258241	7071.80097	0.1127	1.13203	0.11533	1.07291	1.42E-03	4.61E-06	4.05E-05	4.72E-06	3.68E-05	1.5029E-03
520070.48	4259728.84	7060.3235	6.05315	0.07624	5.06903	0.0743	1.41E-03	2.48E-04	2.73E-06	2.08E-04	2.55E-06	1.8746E-03
519929.4	4258502.42	7057.31073	0.22143	0.87268	0.23503	0.8326	1.41E-03	9.07E-06	3.12E-05	9.62E-06	2.86E-05	1.4918E-03
520030.84	4259709.91	7053.6341	5.5637	0.07537	9.42302	0.07413	1.41E-03	2.28E-04	2.70E-06	3.86E-04	2.54E-06	2.0314E-03
520098.63	4257874.85	7052.88558	0.07682	16.73272	0.07751	17.80573	1.41E-03	3.15E-06	5.99E-04	3.17E-06	6.11E-04	2.6285E-03
519956.16	4258197.75	7052.29513	0.10416	1.23749	0.10677	1.16579	1.41E-03	4.26E-06	4.43E-05	4.37E-06	4.00E-05	1.5052E-03
519940.63	4258431.27	7049.6439	0.18794	1.02314	0.19587	0.96837	1.41E-03	7.70E-06	3.66E-05	8.02E-06	3.32E-05	1.4973E-03
519857.12	4258646.05	7047.08079	0.19814	0.43687	0.20964	0.42852	1.41E-03	8.11E-06	1.56E-05	8.58E-06	1.47E-05	1.4583E-03
520051.38	4257954.69	7044.25264	0.0809	7.72073	0.08427	5.72403	1.41E-03	3.31E-06	2.76E-04	3.45E-06	1.97E-04	1.8901E-03
519949.3	4258230.54	7043.99405	0.11027	1.14736	0.11291	1.08615	1.41E-03	4.51E-06	4.10E-05	4.62E-06	3.73E-05	1.4981E-03
519847.12	4258664.6	7031.70107	0.1928	0.40443	0.20313	0.39711	1.41E-03	7.89E-06	1.45E-05	8.32E-06	1.36E-05	1.4525E-03
520061.23	4257934.73	7022.27566	0.07969	12.49498	0.08238	7.88064	1.41E-03	3.26E-06	4.47E-04	3.37E-06	2.71E-04	2.1304E-03
519837.12	4258683.15	7011.43725	0.18749	0.37582	0.19676	0.36895	1.40E-03	7.68E-06	1.34E-05	8.06E-06	1.27E-05	1.4460E-03
519950.38	4258220.1	7007.04133	0.10788	1.16161	0.11052	1.09815	1.40E-03	4.42E-06	4.15E-05	4.53E-06	3.77E-05	1.4914E-03
520060.58	4259729.86	7003.96195	7.60776	0.07552	6.63057	0.07382	1.40E-03	3.11E-04	2.70E-06	2.71E-04	2.53E-06	1.9909E-03
520020.94	4259709.93	6994.13656	3.97908	0.07474	5.34059	0.07358	1.40E-03	1.63E-04	2.67E-06	2.19E-04	2.53E-06	1.7875E-03
519957.17	4258187.34	6993.89141	0.10196	1.24977	0.10446	1.17621	1.40E-03	4.17E-06	4.47E-05	4.28E-06	4.04E-05	1.4942E-03
519782.41	4258787.46	6989.80186	0.1635	0.25999	0.16855	0.25514	1.40E-03	6.69E-06	9.30E-06	6.90E-06	8.76E-06	1.4315E-03
519941.9	4258273.54	6989.53392	0.11966	1.06072	0.12216	1.00792	1.40E-03	4.90E-06	3.79E-05	5.00E-06	3.46E-05	1.4822E-03
519943.13	4258263.04	6988.77989	0.11703	1.07344	0.11951	1.01965	1.40E-03	4.79E-06	3.84E-05	4.89E-06	3.50E-05	1.4827E-03
520108.48	4257854.88	6988.40894	0.07542	11.11171	0.07571	13.5012	1.40E-03	3.09E-06	3.97E-04	3.10E-06	4.64E-04	2.2667E-03
519940.57	4258284.08	6977.16028	0.12234	1.04669	0.12489	0.9949	1.40E-03	5.01E-06	3.74E-05	5.11E-06	3.42E-05	1.4790E-03
519936.52	4258465.52	6968.46208	0.2057	0.96133	0.2169	0.91301	1.40E-03	8.42E-06	3.44E-05	8.88E-06	3.13E-05	1.4786E-03
519951.39	4258209.7	6962.04122	0.10556	1.17329	0.10816	1.10827	1.39E-03	4.32E-06	4.20E-05	4.43E-06	3.80E-05	1.4830E-03
519869.89	4258619.04	6955.69117	0.20335	0.48636	0.21606	0.47583	1.39E-03	8.33E-06	1.74E-05	8.85E-06	1.63E-05	1.4439E-03
519939.1	4258294.67	6949.12788	0.12504	1.03102	0.12766	0.98038	1.39E-03	5.12E-06	3.69E-05	5.23E-06	3.37E-05	1.4725E-03
520030.86	4259719.91	6943.0596	5.23477	0.07445	7.69295	0.07323	1.39E-03	2.14E-04	2.66E-06	3.15E-04	2.51E-06	1.9249E-03
519937.14	4258342.72	6933.04035	0.14107	1.00503	0.14433	0.9568	1.39E-03	5.78E-06	3.59E-05	5.91E-06	3.28E-05	1.4689E-03
519958.12	4258176.96	6930.01766	0.09983	1.26058	0.10221	1.18524	1.39E-03	4.09E-06	4.51E-05	4.18E-06	4.07E-05	1.4819E-03
519879.81	4258599.6	6920.93133	0.20772	0.53092	0.2214	0.51755	1.39E-03	8.50E-06	1.90E-05	9.07E-06	1.78E-05	1.4403E-03
519936.85	4258367.66	6908.22123	0.15133	1.00057	0.15508	0.95139	1.38E-03	6.20E-06	3.58E-05	6.35E-06	3.27E-05	1.4645E-03
520098.66	4257864.85	6906.06529	0.07543	16.70805	0.07608	17.80475	1.38E-03	3.09E-06	5.98E-04	3.12E-06	6.11E-04	2.5981E-03
520051.41	4257944.69	6904.34889	0.07938	7.71012	0.08265	5.69441	1.38E-03	3.25E-06	2.76E-04	3.38E-06	1.95E-04	1.8606E-03
519830.82	4258692.06	6903.48021	0.18282	0.36017	0.19176	0.35332	1.38E-03	7.49E-06	1.29E-05	7.85E-06	1.21E-05	1.4229E-03
519803.65	4258742.7	6902.42292	0.17102	0.2997	0.17717	0.29403	1.38E-03	7.00E-06	1.07E-05	7.25E-06	1.01E-05	1.4174E-03
519919.48	4258521.85	6896.436	0.21965	0.78275	0.23327	0.75082	1.38E-03	8.99E-06	2.80E-05	9.55E-06	2.58E-05	1.4534E-03
519929.36	4258492.72	6891.26245	0.21466	0.87826	0.22728	0.83788	1.38E-03	8.79E-06	3.14E-05	9.31E-06	2.88E-05	1.4583E-03
520020.96	4259719.93	6885.35314	3.77202	0.07384	4.8716	0.0727	1.38E-03	1.54E-04	2.64E-06	1.99E-04	2.50E-06	1.7379E-03
519889.73	4258580.16	6881.70142	0.21162	0.58216	0.22546	0.56492	1.38E-03	8.66E-06	2.08E-05	9.23E-06	1.94E-05	1.4363E-03
520061.27	4257924.73	6876.5578	0.07819	12.51659	0.08081	7.82316	1.38E-03	3.20E-06	4.48E-04	3.31E-06	2.69E-04	2.0999E-03
520109.07	4257845.4	6862.65779	0.07422	10.8825	0.07447	13.27905	1.37E-03	3.04E-06	3.89E-04	3.05E-06	4.56E-04	2.2256E-03
519959.01	4258166.61	6861.37852	0.09775	1.27097	0.10002	1.1937	1.37E-03	4.00E-06	4.55E-05	4.10E-06	4.10E-05	1.4686E-03
519936.58	4258305.7	6859.64722	0.12743	1.00253	0.13008	0.95456	1.37E-03	5.22E-06	3.59E-05	5.33E-06	3.28E-05	1.4529E-03
519937.4	4258414.86	6854.10334	0.17518	0.99536	0.1814	0.94396	1.37E-03	7.17E-06	3.56E-05	7.43E-06	3.24E-05	1.4552E-03
519937.08	4258439.9	6853.01603	0.18961	0.98139	0.19827	0.93084	1.37E-03	7.76E-06	3.51E-05	8.12E-06	3.20E-05	1.4554E-03
519932.92	4258474.27	6847.08039	0.20707	0.92151	0.21862	0.87712	1.37E-03	8.48E-06	3.30E-05	8.95E-06	3.01E-05	1.4517E-03
519899.65	4258560.73	6846.78683	0.21483	0.64028	0.22819	0.61891	1.37E-03	8.80E-06	2.29E-05	9.34E-06	2.12E-05	1.4335E-03
519792.08	4258762.84	6845.44117	0.16556	0.27833	0.17096	0.27316	1.37E-03	6.78E-06	9.96E-06	7.00E-06	9.38E-06	1.4040E-03
519909.57	4258541.29	6841.76415	0.21742	0.70612	0.23071	0.68036	1.37E-03	8.90E-06	2.53E-05	9.45E-06	2.34E-05	1.4371E-03
520030.87	4259729.91	6835.18141	4.69454	0.07355	8.81229	0.07234	1.37E-03	1.92E-04	2.63E-06	2.38E-04	2.48E-06	1.8041E-03
519824.46	4258700.84	6821.15903	0.17901	0.34547	0.18708	0.33912	1.37E-03	7.33E-06	1.24E-05	7.66E-06	1.16E-05	1.4050E-03
519935.2	4258316.25	6803.31048	0.13022	0.98557	0.13296	0.9395	1.36E-03	5.33E-06	3.53E-05	5.44E-06	3.23E-05	1.4407E-03
520020.97	4259729.93	6779.0976	3.50959	0.07286	4.24388	0.07183	1.36E-03	1.44E-04	2.61E-06	1.74E-04	2.47E-06	1.6801E-03
519818.44	4258710.45	6775.0508	0.17577	0.33203	0.18319	0.32595	1.36E-03	7.20E-06	1.19E-05	7.50E-06	1.12E-05	1.3946E-03
519857.12	4258636.77	6774.93955	0.19423	0.44035	0.2056	0.43199	1.36E-03	7.95E-06	1.58E-05	8.42E-06	1.48E-05	1.4037E-03
520051.45	4257934.69	6772.9714	0.07794	7.70002	0.08109	5.6744	1.36E-03	3.19E-06	2.75E-04	3.32E-06	1.95E-04	1.8331E-03
519796.98	4258750.66	6770.78106	0.16663	0.28816	0.1723	0.28281	1.36E-03	6.82E-06	1.03E-05	7.05E-06	9.71E-06	1.3898E-03
520098.69	4257854.85	6764.69323	0.0741	16.6903	0.0747	17.90184	1.35E-03	3.03E-06	5.97E-04	3.06E-06	6.15E-04	2.5724E-03
519847.12	4258655.32	6760.62979	0.18911	0.40751	0.19951	0.40034	1.35E-03	7.74E-06	1.46E-05	8.17E-06	1.37E-05	1.3981E-03
519929.32	4258483.02	6750.74658	0.20816	0.8837	0.21992	0.84208	1.35E-03	8.52E-06	3.16E-05	9.00E-06	2.89E-05	1.4300E-03
520061.3	4257914.73	6747.90029	0.0768	12.48265	0.07929	7.78197	1.35E-03	3.14E-06	4.46E-04	3.25E-06	2.67E-04	2.0714E-03
519837.12	4258673.87	6743.65715	0.18403	0.37851	0.19334	0.37204	1.35E-03	7.53E-06	1.35E-05	7.92E-06	1.28E-05	1.3923E-03
519933.52	4258351.5	6737.12968	0.14232	0.96742	0.14552	0.92209	1.35E-03	5.83E-06	3.46E-05	5.96E-06	3.17E-05	1.4272E-03
519947.21	4258201.44	6723.43418	0.1022	1.11549	0.10457	1.05584	1.35E-03	4.18E-06	3.99E-05	4.28E

519929.54	4258385.44	6468.69579	0.15406	0.92588	0.15807	0.88219	1.30E-03	6.31E-06	3.31E-05	6.47E-06	3.03E-05	1.3716E-03
519930.38	4258431.92	6456.49702	0.17815	0.91976	0.18567	0.87532	1.29E-03	7.29E-06	3.29E-05	7.60E-06	3.01E-05	1.3708E-03
519928.05	4258309.22	6456.39314	0.12435	0.91778	0.12669	0.8769	1.29E-03	5.09E-06	3.28E-05	5.19E-06	3.01E-05	1.3662E-03
520109.16	4257815.4	6446.81247	0.0704	10.87249	0.07059	13.21919	1.29E-03	2.88E-06	3.89E-04	2.89E-06	4.54E-04	2.1396E-03
519859.89	4258619.08	6437.83788	0.19035	0.45497	0.20162	0.4461	1.29E-03	7.79E-06	1.63E-05	8.26E-06	1.53E-05	1.3369E-03
519788.36	4258753.99	6427.32647	0.15901	0.27602	0.16407	0.27112	1.29E-03	6.51E-06	9.87E-06	6.72E-06	9.31E-06	1.3196E-03
519869.81	4258599.64	6413.80519	0.19428	0.49488	0.2064	0.48354	1.28E-03	7.95E-06	1.77E-05	8.45E-06	1.66E-05	1.3352E-03
519926.43	4258465.8	6410.55874	0.19373	0.86818	0.20373	0.82908	1.28E-03	7.93E-06	3.11E-05	8.34E-06	2.85E-05	1.3596E-03
519938.26	4258205.13	6408.20397	0.10027	1.01237	0.10229	0.96167	1.28E-03	4.11E-06	3.62E-05	4.19E-06	3.30E-05	1.3609E-03
519909.48	4258521.89	6392.2602	0.20527	0.7157	0.21709	0.68947	1.28E-03	8.40E-06	2.56E-05	8.89E-06	2.37E-05	1.3467E-03
519879.73	4258580.2	6386.59745	0.19782	0.54049	0.21004	0.52583	1.28E-03	8.10E-06	1.93E-05	8.60E-06	1.81E-05	1.3331E-03
519926.52	4258344.25	6385.20361	0.13537	0.90165	0.13807	0.86201	1.28E-03	5.54E-06	3.23E-05	5.65E-06	2.96E-05	1.3518E-03
520099.34	4257825.37	6383.98464	0.07045	16.22589	0.07092	17.80294	1.28E-03	2.88E-06	5.80E-04	2.90E-06	6.11E-04	2.4758E-03
519939.41	4258194.67	6376.04332	0.09827	1.02282	0.10031	0.97068	1.28E-03	4.02E-06	3.66E-05	4.11E-06	3.33E-05	1.3549E-03
520051.54	4257904.69	6375.94371	0.07374	7.67788	0.07667	5.49728	1.28E-03	3.02E-06	2.75E-04	3.14E-06	1.89E-04	1.7464E-03
519820.79	4258692	6374.99961	0.17151	0.34085	0.17958	0.33502	1.28E-03	7.02E-06	1.22E-05	7.35E-06	1.15E-05	1.3147E-03
519793.36	4258742.07	6363.03174	0.16022	0.28543	0.16552	0.28048	1.27E-03	6.56E-06	1.02E-05	6.78E-06	9.63E-06	1.3075E-03
519889.65	4258560.77	6360.81428	0.20075	0.59164	0.21241	0.57366	1.27E-03	8.22E-06	2.12E-05	8.70E-06	1.97E-05	1.3316E-03
519930.37	4258248.34	6360.26945	0.10806	0.93836	0.10984	0.8949	1.27E-03	4.42E-06	3.36E-05	4.50E-06	3.07E-05	1.3469E-03
519919.36	4258492.76	6359.25106	0.20109	0.79771	0.21211	0.76486	1.27E-03	8.23E-06	2.85E-05	8.68E-06	2.63E-05	1.3452E-03
519931.68	4258237.81	6358.54552	0.10588	0.95027	0.10767	0.90553	1.27E-03	4.34E-06	3.40E-05	4.41E-06	3.11E-05	1.3472E-03
519899.57	4258541.33	6351.19955	0.20312	0.64921	0.21464	0.6278	1.27E-03	8.32E-06	2.32E-05	8.79E-06	2.16E-05	1.3338E-03
519928.95	4258258.91	6350.60933	0.11025	0.92431	0.11204	0.88245	1.27E-03	4.51E-06	3.31E-05	4.59E-06	3.03E-05	1.3443E-03
520061.39	4257884.73	6348.45699	0.0727	12.51728	0.07501	7.53349	1.27E-03	2.98E-06	4.48E-04	3.07E-06	2.59E-04	1.9838E-03
519932.89	4258227.32	6346.47612	0.10373	0.95786	0.10553	0.91287	1.27E-03	4.25E-06	3.43E-05	4.32E-06	3.13E-05	1.3451E-03
519926.1	4258369.06	6339.5932	0.14481	0.89843	0.14803	0.8579	1.27E-03	5.93E-06	3.21E-05	6.06E-06	2.95E-05	1.3432E-03
519940.48	4258184.24	6337.14972	0.09631	1.03207	0.09834	0.97858	1.27E-03	3.94E-06	3.69E-05	4.03E-06	3.36E-05	1.3476E-03
519814.67	4258701.35	6331.80584	0.16853	0.32768	0.17574	0.32228	1.27E-03	6.90E-06	1.17E-05	7.20E-06	1.11E-05	1.3049E-03
519934.02	4258216.87	6326.86661	0.10164	0.96971	0.10349	0.92301	1.27E-03	4.16E-06	3.47E-05	4.24E-06	3.17E-05	1.3418E-03
520109.19	4257805.4	6320.84576	0.06922	10.86594	0.06937	13.30176	1.27E-03	2.83E-06	3.89E-04	2.84E-06	4.57E-04	2.1168E-03
519781.72	4258762.02	6314.98047	0.1551	0.26589	0.15975	0.26125	1.26E-03	6.35E-06	9.51E-06	6.54E-06	8.97E-06	1.2966E-03
519922.87	4258474.43	6312.0087	0.19472	0.83441	0.2049	0.79841	1.26E-03	7.97E-06	2.98E-05	8.39E-06	2.74E-05	1.3377E-03
519941.48	4258173.84	6292.4766	0.0944	1.04121	0.0964	0.98606	1.26E-03	3.87E-06	3.72E-05	3.95E-06	3.39E-05	1.3391E-03
519926.87	4258440.45	6288.57288	0.1795	0.88439	0.18757	0.84342	1.26E-03	7.35E-06	3.16E-05	7.68E-06	2.90E-05	1.3350E-03
519927.11	4258415.61	6280.25352	0.16654	0.89631	0.17251	0.85409	1.26E-03	6.82E-06	3.21E-05	7.06E-06	2.93E-05	1.3330E-03
519847.12	4258636.77	6268.8978	0.18204	0.41364	0.1923	0.40647	1.26E-03	7.45E-06	1.48E-05	7.87E-06	1.40E-05	1.2995E-03
519925.83	4258270.19	6259.78338	0.11198	0.895	0.11375	0.85575	1.25E-03	4.58E-06	3.20E-05	4.66E-06	2.94E-05	1.3242E-03
520099.37	4257815.37	6258.72695	0.06926	16.22535	0.06969	17.83727	1.25E-03	2.84E-06	5.80E-04	2.85E-06	6.12E-04	2.4518E-03
520051.57	4257894.69	6258.52668	0.07246	7.66659	0.0753	5.4807	1.25E-03	2.97E-06	2.74E-04	3.08E-06	1.88E-04	1.7218E-03
519808.35	4258710.24	6257.58902	0.16497	0.31504	0.17156	0.30987	1.25E-03	6.75E-06	1.13E-05	7.02E-06	1.06E-05	1.2889E-03
519925.89	4258394.32	6255.64156	0.15539	0.89121	0.15976	0.85005	1.25E-03	6.36E-06	3.19E-05	6.54E-06	2.92E-05	1.3267E-03
519837.12	4258655.32	6251.64521	0.17737	0.38383	0.18683	0.37777	1.25E-03	7.26E-06	1.37E-05	7.65E-06	1.30E-05	1.2936E-03
519924.46	4258280.74	6240.46558	0.11433	0.88497	0.11617	0.84639	1.25E-03	4.68E-06	3.17E-05	4.76E-06	2.91E-05	1.3199E-03
519827.12	4258673.87	6234.44855	0.17272	0.35755	0.18121	0.35202	1.25E-03	7.07E-06	1.28E-05	7.42E-06	1.21E-05	1.2879E-03
519923.06	4258328.41	6232.51941	0.12801	0.87227	0.13033	0.83513	1.25E-03	5.24E-06	3.12E-05	5.34E-06	2.87E-05	1.3186E-03
519919.32	4258483.06	6231.77005	0.19541	0.8023	0.2057	0.76917	1.25E-03	8.00E-06	2.87E-05	8.42E-06	2.64E-05	1.3195E-03
520061.42	4257874.73	6228.35784	0.07145	12.50541	0.07368	7.49474	1.25E-03	2.93E-06	4.47E-04	3.02E-06	2.57E-04	1.9579E-03
519909.44	4258512.2	6206.4964	0.19961	0.72021	0.21073	0.69366	1.24E-03	8.17E-06	2.58E-05	8.63E-06	2.38E-05	1.3093E-03
519922.97	4258291.34	6204.98188	0.11669	0.87439	0.11863	0.83638	1.24E-03	4.78E-06	3.13E-05	4.86E-06	2.87E-05	1.3123E-03
519775.06	4258770	6203.85644	0.15129	0.25632	0.15556	0.25191	1.24E-03	6.19E-06	9.17E-06	6.37E-06	8.65E-06	1.2728E-03
520109.23	4257795.4	6201.34808	0.0681	10.84914	0.0682	13.2889	1.24E-03	2.79E-06	3.88E-04	2.79E-06	4.57E-04	2.0921E-03
519922.95	4258352.94	6200.02403	0.13647	0.86999	0.13913	0.83257	1.24E-03	5.59E-06	3.11E-05	5.70E-06	2.86E-05	1.3126E-03
519859.85	4258609.38	6193.48644	0.18626	0.45865	0.19732	0.4495	1.24E-03	7.63E-06	1.64E-05	8.08E-06	1.54E-05	1.2879E-03
519802.96	4258717.25	6182.07643	0.16184	0.30497	0.16795	0.3	1.24E-03	6.63E-06	1.09E-05	6.88E-06	1.03E-05	1.2728E-03
519869.77	4258589.94	6172.34012	0.18982	0.4093	0.20148	0.48723	1.24E-03	7.77E-06	1.79E-05	8.25E-06	1.67E-05	1.2867E-03
519921.33	4258302	6152.27984	0.11904	0.86026	0.12103	0.82356	1.23E-03	4.87E-06	3.08E-05	4.96E-06	2.83E-05	1.3010E-03
519879.69	4258570.51	6149.92484	0.19295	0.54498	0.20426	0.52977	1.23E-03	7.90E-06	1.95E-05	8.36E-06	1.82E-05	1.2856E-03
519923.36	4258448.98	6143.09017	0.18072	0.85066	0.18919	0.81302	1.23E-03	7.40E-06	3.04E-05	7.75E-06	2.79E-05	1.3037E-03
520051.6	4257884.69	6140.59962	0.07121	7.65046	0.07397	5.4346	1.23E-03	2.92E-06	2.74E-04	3.03E-06	1.87E-04	1.6959E-03
519899.52	4258531.63	6140.45795	0.19765	0.65335	0.20856	0.63182	1.23E-03	8.09E-06	2.34E-05	8.54E-06	2.17E-05	1.2914E-03
520099.41	4257805.37	6137.702	0.06811	16.21707	0.0685	17.88632	1.23E-03	2.79E-06	5.80E-04	2.80E-06	6.14E-04	2.4289E-03
519922.68	4258377.85	6137.28598	0.14604	0.86655	0.14946	0.82809	1.23E-03	5.98E-06	3.10E-05	6.12E-06	2.84E-05	1.3006E-03
519889.61	4258551.07	6125.11874	0.19531	0.59543	0.20601	0.57751	1.23E-03	8.00E-06	2.13E-05	8.43E-06	1.98E-05	1.2842E-03
520061.45	4257864.73	6111.72111	0.07023	12.47987	0.07239	7.45351	1.22E-03	2.88E-06	4.46E-04	2.96E-06	2.56E-04	1.9321E-03
519929.31	4258208.83	6106.07691	0.09835	0.91936	0.09995	0.87662	1.22E-03	4.03E-06	3.29E-05	4.09E-06	3.01E-05	1.2939E-03
519923.64	4258424.05	6099.46161	0.16782	0.86341	0.17438	0.82414	1.22E-03	6.87E-06	3.09E-05	7.14E-06	2.83E-05	1.2947E-03
519930.53	4258198.34	6082.58285	0.09644	0.92771	0.09808	0.88392	1.22E-03	3.95E-06	3.32E-05	4.02E-06	3.03E-05	1.2896E-03
519796.37	4258725.4	6082.51532	0.15801	0.29338	0.16355	0.28867	1.22E-03	6.47E-06	1.05E-05	6.70E-06	9.91E-06	1.2517E-03
520109.26	4257785.4	6077.96375	0.06696	10.87062	0.06705	13.30878	1.22E-03	2.74E-06	3.89E-04	2.75E-06	4.57E-04	2.0684E-03
519919.52	4258337.01	6066.22065	0.12901	0.84283	0.13127	0.80772	1.21E-03	5.28E-06	3.01E-05	5.37E-06	2.77E-05	1.2834E-03
519931.66	4258187.88	6056.91333	0.09458	0.93733	0.09627	0.89218	1.21E-03	3.87E-06	3.35E-05	3.94E-06	3.06E-05	1.2850E-03
519922.23	4258403.21	6051.37079	0.15668	0.85799	0.16157	0.81936	1.21E-03	6.42E-06	3.07E-05	6.62E-06	2.81E-05	1.2837E-03
519922.87	4258241.44	6040.50316	0.1037	0.87068	0.10516	0.8317	1.21E-03	4.25E-06	3.11E-05	4.31E-06	2.86E-05	1.2779E-03
519924.15	4258230.93	6039.33421	0.10168	0.87755	0.10311	0.83848	1.21E-03	4.16E-06	3.14E-05	4.22E-06	2.88E-05	1.2780E-03
519909.4	4258502.5	6039.26254	0.1941	0.72435	0.20447	0.69756	1.21E-03	7.95E-06	2.59E-05	8.37E-06	2.39E-05	1.2756E-03
519784.64	4258745.14	6036.21288	0.15292	0.27329	0.15761	0.2688	1.21E-03	6.26E-06	9.78E-06	6.45E-06	9.23E-06	1.2406E-03
519921.49	4258252	6030.97077	0.10575	0.85773	0.10721	0.82055	1.21E-03	4.33E-06	3.07E-05	4.39E-06	2.82E-05	1.2754E-03
519925.33	4258220.45	6029.43099	0.09969	0.88582	0.10113	0.84588	1.21E-03	4.08E-06	3.17E-05	4.14E-06	2.90E-05	1.2764E-03
519837.12	4258646.05	6029.2572	0.17418	0.38664	0.18361	0.38049	1.21E-03	7.13E-06	1.38E-05	7.52E-06	1.31E-05	1.2490E-03
520051.63	4257874.69	6026.30812	0.06999	7.62966	0.07267	5.38786	1.21E-03	2.87E-06	2.73E-04	2.98E-06	1.85E-04	1.6706E-03
519919.85	4258457.51	6020.80372	0.18179	0.81863	0.19051	0.78405	1.21E-03	7.44E-06	2.93E-05	7.80E-06	2.69E-05	1.2772E-03
520099.44	4257795.37	6019.5978	0.06699	16.21919	0.06735	17.85708	1.21E-03	2.74E-06	5.80E-04	2.76E-06	6.13E-04	2.4042E-03
519932.72	4258177.46	6019.34744	0.09274	0.94332	0.09444	0.89709	1.21E-03	3.80E-06	3.37E-05	3.87E-06	3.08E-05	1.2777E-03
519919.37	4258361.63	6012.27523	0.13754	0.83982	0.14026	0.8044	1.20E-03	5.63E-06	3.00E-05	5.74E-06	2.76E-05	1.2731E-03
520172.84	4257692.52	6011.40844	0.06294	3.36277	0.06206	2.90458	1.20E-03	2.58E-06	1.20E-04	2.54E-06	9.97E-05	1.4290E-03
519827.12	4258664.6	6010.33995	0.1697	0.35994	0.1783	0.35456	1.20E-03	6.95E-06	1.29E-05	7.30E-06	1.22E-05	1.2429E-03
519919.99	4258262.61	5999.32658	0.10773	0.84301	0.10923	0.8075	1.20E-03	4.41E-06	3.02E-05	4.47E-06	2.77E-05	1.2682E-03
520061.48	4257854.73	5998.70329	0.06905	12.44024	0.07114	7.41443	1.20E-03	2.83E-06	4.45E-04	2.91E-06	2.55E-04	1.9066E-03
519817.12	4258683.15	5994.48074	0.16528	0.33617	0.17291	0.3312	1.20E-03	6.77E-06	1.20E-05	7.08E-06	1.14E-05	1.2377E-03
519789.75	4258733.47	5982.55073	0.15424	0.28242	0.15926	0.27794	1.20E-03	6.32E-06	1.01E-05	6.52E-06	9.54E-06	1.2306E-03
519849.89	4258619.12	5980.35301	0.17863	0.42661	0.18874	0.41908	1.20E-03	7.31E-06	1.53E-05	7.73E-06	1.44E-05	1.2423E-03
519859.81	4258599.68	5968.33217	0.18224	0.4624	0.19301	0.4528	1.20E-03	7.46E-06	1.65E-05	7.90E-06	1.55E-05	1.2427E-03
520109.29	4257775.4	5954.35152	0.06583	10.902	0.06592	12.95111	1.19E-03	2.70E-06	3.90E-04	2.70E-06	4.45E-04	2.0324E-03
519899.48	4258521.94	5950.21669	0.19241	0.65734	0.20274	0.63562	1.19E-03	7.88E-06	2.35E-05	8.30E-06	2.18E-05	1.2531E-03
519869.73	4258580.25	5950.03427	0.18542	0.50348	0.19638	0.49078	1.19E-03	7.59E-06	1.80E-05	8.04E-06	1.68E-05	1.2421E-03
519919.07	4258386.63	5938.90916	0.14722	0.83548	0.15097	0.79925	1.19E-03	6.03E-06	2.99E-05	6.18E-06	2.74E-05	1.2589E-03
519778.03	4258753.24	5938.20466	0.14928	0.26345	0.15359	0.25914	1.19E-03	6.11E-06	9.42E-06	6.29E-06	8.90E-06	1.2199E-03
519920.16	4258432.49	5936.40918	0.16902	0.8316	0.17605	0.79543	1.19E-03	6.92E-06	2.97E-05	7.21E-06	2.73E-05	1.2600E-03
519879.65	4258560.81	5932.04483	0.18818	0.5489	0.19858	0.53349	1.19E-03	7.70E-06	1.96E-05	8.13E-06	1.83E-05	1.2418E-03
519916.01	4258321.27	5926.95631	0.12223	0.81568	0.12418	0.78263	1.19E-03	5.00E-06	2.92E-05	5.08E-06	2.69E-05	1.2531E-03
519916.34	4258466.04	5921.05148	0.18271	0.78843	0.19159	0.7565	1.19E-03	7.48E-06	2.82E-05	7.84E-06	2.60E-05	1.2553E-03
520051.66	4257864.69	5918.74349	0.06883	7.60149	0.07143	5.36554	1.19E-03	2.82E-06	2.72E-04	2.92E-06	1.84E-04	1.6472E-03
519917.18	4258273.76	5917.48786	0.10942	0.8203	0.11094	0.7866	1.19E-03	4.48E-06	2.93E-05	4.54E-06	2.70E-05	1.2504E-03
519810.89	4258692.25	5916.15397	0.16147	0.32317	0.16882	0.31814	1.18E-03	6.61E-06	1.16E-05	6.91E-06	1.09E-05	1.2208E-03
519889.57	4258541.37	5913.69721	0.19017	0.59905	0.20018	0.58317	1.18E-03	7.79E-06	2.14E-05	8.20E-06	2.00E-05	1.2417E-03
520099.47	4257785.37	5904.31568	0.06589	16.22502	0.06622	17.71991	1.18E-03	2.70E-06	5.80E-04	2.71E-06	6.08E-04	2.3765E-03
519915.74	4258284.33	5898.93965	0.11172	0.81392	0.11333	0.78049	1.18E-03	4.57E-06	2.91E-05	4.64E-06	2.68E-05	1.2465E-03
519909.36	4258492.8	5894.34839	0.18884	0.72826	0.1985	0.70127	1.18E-03	7.73E-06	2.60E-05	8.13E-06	2.41E-05	1.2464E-03
519915.98	4258345.62	5892.75822	0.12996	0.81424	0.1322	0.78113	1.18E-03	5.32E-06	2.91E-05	5.41E-06	2.68E-05	1.2468E-03
520172.87	4257682.52	5888.27556	0.06192	3.40753	0.06109	2.736	1.18E-03	2.54E-06	1.22E-04	2.50E-06	9.39E-05	1.4001E-03
520060.13	4257845.25	5868.54183	0.06778	11.39669	0.06986	7.00797	1.18E-03	2.78E-06	4.08E-04	2.86E-06	2.41E-04	1.8291E-03
520163.05	4257692.49	5864.90075	0.06218	4.37655	0.06146	3.63197	1.17E-03	2.55E-06	1.57E-04	2.52E-06	1.25E-04	1.4608E-03
519804.61	4258701.21	5862.46581	0.15848	0.31091	0.165	0.30629	1.17E-03	6.49E-06	1.11E-05	6.76E-06	1.05E-05	1.2089E-03
519918.57	4258412.1	5859.73106	0.15793	0.82556	0.16334	0.78985	1.17E-03	6.47E-06	2.95E-05	6.69E-06	2.71E-05	1.2433E-03
519914.17	4258294.97	5851.67177	0.11392	0.80369	0.1156	0.77087	1.17E-03	4.66E-06	2.87E-05	4.73E-06	2.65E-05	1.2365E-03
520109.32	4257765.4	5846.53238	0.0648	10.93101	0.06485	13.28524	1.17E-03	2.65E-06	3.91E-04	2.66E-06	4.56E-04	2.0232E-03
519912.83	4258474.57	5841.56923	0.18339	0.75952	0.19234	0.73007	1.17E-03	7.51E-06	2.72E-05	7.88E-06	2.51E-05	1.2375E-03
519771.39	4258761.27	5841.19614	0.14573	0.25408	0.14966	0.24997	1.17E-03	5.97E-06	9.09E-06	6.13E-06	8.58E-06	1.1995E-03
519915.8	4258370.31	5826.47261	0.13862	0.8113	0.14152	0.77764	1.17E-03	5.68E-06	2.90E-05	5.79E-06	2.67E-05	1.2340E-03
519837.12	4258636.77	5822.66797	0.17106	0.38929	0.18035	0.38314	1.17E-03	7.00E-06	1.39E-05	7.38E-06	1.32E-05	1.2075E-03
519920.36	4258212.52	5816.32834	0.09644	0.8411	0.09766	0.80397	1.16E-03	3.95E-06	3.01E-05	4.00E-06	2.76E-05	1.2304E-03
520051.7	4257854.7	5813.08554	0.0677	7.57142	0.07021	5.33075	1.16E-03	2.77E-06	2.71E-04	2.87E-06	1.83E-04	1.6236E-03
519799.29	4258708.54	5806.0431	0.15573	0.30112	0.16171	0.29671	1.16E-03	6.38E-06	1.08E-05	6.62E-06	1.02E-05	1.1967E-03
519921.64	4258202	5804.22899	0.09463	0.84922	0.09589	0.81114	1.16E-03	3.87E-06	3.04E-05	3.93E-06	2.78E-05	1.2284E-03
519827.12	4258655.32	5801.31106	0.16677	0.36234	0.17541	0.35702	1.16E-03	6.83E-06	1.30E-05	7.18E-06	1.23E-05	1.2010E-03
519916.69	4258440.94	5793.48501	0.17013	0.80112	0.17749	0.768	1.16E-03	6.97E-06	2.87E-05	7.27E-06	2.64E-05	1.2295E-03
520099.5	4257775.37	5792.23342	0.06483	16.23586	0.06513	17.52899	1.16E-03	2.65E-06	5.81E-04	2.67E-06	6.02E-04	2.3478E-03
519922.84	4258191.52	5784.94191	0.09285	0.85652	0.09415	0.81746	1.16E-03	3.80E-06	3.06E-05	3.85E-06	2.81E-05	1.2249E-03
519817.12	4258673.87	5782.55004	0.16249	0.33827	0.17026	0.33353	1.16E-03	6.65E-06	1.21E-05	6.97E-06	1.15E-05	1.1952E-03
519899.44	4258512.24	5779.73895	0.18738	0.66117	0.19715	0.63919	1.16E-03	7.67E-06	2.36E-05	8.07E-06	2.19E-05	1.2188E-03
519909.32	4258483.1	5776.0431	0.18388	0.73229	0.19294	0.70502	1.16E-03	7.53E-06	2.62E-05	7.90E-06	2.42E-05	1.2226E-03
519912.5	4258329.8	5771.00602	0.12311	0.78905	0.125	0.75784	1.16E-03	5.04E-06	2.82E-05	5.12E-06	2.60E-05	1.2201E-03
519849.85	4258609.42	5769.93113	0.17499	0.42972	0.18487	0.42202	1.16E-03	7.16E-06	1.54E-05	7.57E-06	1.45E-05	1.2001E-03
519923.96	4258181.07	5763.12141	0.09112	0.86451	0.09248	0.82426	1.15E-03	3.73E-06	3.09E-05	3.79E-06	2.83E-05	1.2209E-03
520060.16	4257835.25	5762.08946	0.06667	11.34629	0.06868	6.9518	1.15E-03	2.73E-06	4.06E-04	2.81E-06	2.39E-04	1.8040E-03
519859.77	4258589.99	5758.54202	0.17824	0.46623	0.18863	0.456	1.15E-03	7.30E-06	1.67E-05	7.72E-06	1.57E-05	1.2006E-03
519915.46	4258395.41	5747.79105	0.14837	0.80575	0.15257	0.77174	1.15E-03	6.07E-06	2.88E-05	6.25E-06	2.65E-05	1.2187E-03
520163.08	4257682.49	5746.96348	0.06118	4.6188	0.0605	3.41863	1.15E-03	2.50E-06	1.65E-04	2.48E-06	1.17E-04	1.4385E-03
519915.4	4258234.54	5746.74097	0.09964	0.80835	0.1008	0.77367	1.15E-03	4.08E-06	2.89E-05	4.13E-06	2.66E-05	1.2145E-03
519916.65	4258224.04	5746.31655	0.09776	0.81421	0.09888	0.77919	1.15E-03	4.00E-06	2.91E-05	4.05E-06	2.68E-05	1.2147E-03
520109.35	4257755.4	5743.41427	0.06381	10.96995	0.06381	13.33335	1.15E-03	2.61E-06	3.92E-04	2.61E-06	4.58E-04	2.0055E-03
519869.69	4258570.55	5742.85232	0.18107	0.50732	0.19119	0.49418	1.15E-03	7.41E-06	1.81E-05	7.83E-06	1.70E-05	1.2004E-03
519914.06	4258245.08	5737.96596	0.10155	0.79924	0.10275	0.76557	1.15E-03	4.16E-06	2.88E-05	4.21E-06	2.63E-05	1.2123E-03
519879.61	4258551.11	5731.71636	0.18354	0.55239	0.19319	0.53697	1.15E-03	7.51E-06	1.98E-05	7.91E-06	1.84E-05	1.2015E-03
519889.52	4258531.68	5725.39543	0.18533	0.60255	0.19484	0.58462	1.15E-03	7.59E-06	2.16E-05	7.98E-06	2.01E-05	1.2038E-03
519912.44	4258354.23	5721.54258	0.13095	0.78775	0.13326	0.75618	1.15E-03	5.36E-06	2.82E-05	5.46E-06	2.60E-05	1.2108E-03
519792.73	4258716.75	5716.67495	0.15213	0.28986	0.15755	0.28564	1.14E-03	6.23E-06	1.04E-05	6.45E-06	9.81E-06	1.1778E-03
519912.61	4258255.67	5712.31185	0.10342	0.78621	0.10466	0.75424	1.14E-03	4.23E-06	2.81E-05	4.29E-06

520050.4	4257825.22	5490.44184	0.06434	7.04157	0.06671	4.95263	1.10E-03	2.63E-06	2.52E-04	2.73E-06	1.70E-04	1.5268E-03
519899.36	4258492.84	5488.95467	0.17782	0.66805	0.18639	0.64563	1.10E-03	7.28E-06	2.39E-05	7.63E-06	2.22E-05	1.1602E-03
519905.14	4258323.44	5486.45789	0.11775	0.73813	0.11932	0.71024	1.10E-03	4.82E-06	2.64E-05	4.89E-06	2.44E-05	1.1592E-03
520099.59	4257745.37	5479.06295	0.06182	16.34475	0.06204	17.56877	1.10E-03	2.53E-06	5.85E-04	2.54E-06	6.03E-04	2.2901E-03
519907.96	4258227.62	5476.53414	0.09583	0.75369	0.09676	0.72207	1.10E-03	3.92E-06	2.70E-05	3.96E-06	2.48E-05	1.1564E-03
519906.65	4258238.15	5467.9205	0.09761	0.74568	0.09859	0.71509	1.10E-03	4.00E-06	2.67E-05	4.04E-06	2.45E-05	1.1543E-03
519908.65	4258387.69	5460.97686	0.14068	0.75698	0.1443	0.72712	1.09E-03	5.76E-06	2.71E-05	5.91E-06	2.50E-05	1.1573E-03
520060.25	4257805.25	5459.3937	0.06352	11.16845	0.06534	6.73218	1.09E-03	2.60E-06	3.99E-04	2.68E-06	2.31E-04	1.7292E-03
519795.63	4258699.83	5459.23628	0.14995	0.29719	0.15596	0.2932	1.09E-03	6.14E-06	1.06E-05	6.39E-06	1.01E-05	1.1265E-03
520170.95	4257642.88	5453.89353	0.05827	2.89536	0.0575	2.31914	1.09E-03	2.39E-06	1.04E-04	2.35E-06	7.96E-05	1.2801E-03
520141.21	4257683.56	5452.50819	0.05962	11.84626	0.05918	6.82771	1.09E-03	2.44E-06	4.24E-04	2.42E-06	2.34E-04	1.7549E-03
519905.25	4258248.72	5448.6237	0.09939	0.73499	0.1004	0.70589	1.09E-03	4.07E-06	2.63E-05	4.11E-06	2.42E-05	1.1499E-03
519905.48	4258346.86	5444.62937	0.12478	0.73862	0.12671	0.71069	1.09E-03	5.11E-06	2.64E-05	5.19E-06	2.44E-05	1.1515E-03
520131.41	4257694.33	5431.5384	0.05987	10.61099	0.0595	10.11863	1.09E-03	2.45E-06	3.80E-04	2.44E-06	3.47E-04	2.8195E-03
520109.44	4257725.4	5430.28869	0.06087	11.5751	0.06083	13.75119	1.09E-03	2.49E-06	4.14E-04	2.49E-06	4.72E-04	1.9786E-03
519902.8	4258474.7	5428.78609	0.17317	0.6952	0.18115	0.67071	1.09E-03	7.09E-06	2.49E-05	7.42E-06	2.30E-05	1.1496E-03
519827.12	4258636.77	5427.08861	0.16113	0.36701	0.16955	0.36173	1.09E-03	6.60E-06	1.31E-05	6.94E-06	1.24E-05	1.1259E-03
519903.72	4258259.33	5407.32299	0.10106	0.72252	0.10212	0.69482	1.08E-03	4.14E-06	2.58E-05	4.18E-06	2.39E-05	1.1409E-03
519889.44	4258512.28	5406.55235	0.17644	0.60957	0.18513	0.59116	1.08E-03	7.22E-06	2.18E-05	7.58E-06	2.03E-05	1.1396E-03
519817.12	4258655.32	5401.68744	0.15719	0.34249	0.16506	0.33791	1.08E-03	6.44E-06	1.23E-05	6.76E-06	1.16E-05	1.1188E-03
520050.43	4257815.22	5394.57826	0.06332	6.99578	0.06563	4.88816	1.08E-03	2.59E-06	2.50E-04	2.69E-06	1.68E-04	1.5037E-03
519907.6	4258438.76	5393.22521	0.16112	0.73734	0.16772	0.70963	1.08E-03	6.60E-06	2.64E-05	6.87E-06	2.44E-05	1.1443E-03
519839.85	4258609.46	5391.60087	0.16478	0.40352	0.17369	0.39697	1.08E-03	6.75E-06	1.44E-05	7.11E-06	1.36E-05	1.1217E-03
519908.23	4258412.97	5389.24585	0.15039	0.74848	0.15552	0.71958	1.08E-03	6.16E-06	2.68E-05	6.37E-06	2.47E-05	1.1433E-03
519849.77	4258590.03	5388.73294	0.16776	0.43642	0.17709	0.42767	1.08E-03	6.87E-06	1.56E-05	7.25E-06	1.47E-05	1.1236E-03
519789.09	4258708.1	5382.79455	0.14668	0.28618	0.15204	0.28245	1.08E-03	6.01E-06	1.02E-05	6.23E-06	9.70E-06	1.1101E-03
520099.62	4257735.37	5381.43297	0.06088	16.44561	0.06107	17.75572	1.08E-03	2.49E-06	5.88E-04	2.50E-06	6.10E-04	2.2805E-03
519899.32	4258483.15	5380.60232	0.17351	0.6717	0.18158	0.64894	1.08E-03	7.10E-06	2.40E-05	7.43E-06	2.23E-05	1.1384E-03
519859.69	4258570.59	5380.39528	0.17038	0.47323	0.17942	0.46202	1.08E-03	6.98E-06	1.69E-05	7.35E-06	1.59E-05	1.1246E-03
519807.12	4258673.87	5380.0187	0.15322	0.32049	0.16032	0.31641	1.08E-03	6.27E-06	1.15E-05	6.56E-06	1.09E-05	1.1126E-03
519901.75	4258307.4	5379.89848	0.11194	0.71632	0.11327	0.6897	1.08E-03	4.58E-06	2.56E-05	4.64E-06	2.37E-05	1.1356E-03
519879.52	4258531.72	5376.33212	0.17473	0.55848	0.18332	0.54315	1.08E-03	7.15E-06	2.00E-05	7.51E-06	1.86E-05	1.1300E-03
519905.35	4258371.44	5376.26146	0.13286	0.73739	0.13564	0.70891	1.08E-03	5.44E-06	2.64E-05	5.55E-06	2.43E-05	1.1384E-03
519869.61	4258551.15	5372.27507	0.17265	0.51372	0.18131	0.50042	1.08E-03	7.07E-06	1.84E-05	7.42E-06	1.72E-05	1.1259E-03
520060.28	4257795.25	5364.17896	0.06253	11.09676	0.06429	6.64288	1.07E-03	2.56E-06	3.97E-04	2.63E-06	2.28E-04	1.7044E-03
519902.07	4258270	5357.1414	0.10269	0.7099	0.10377	0.68331	1.07E-03	4.20E-06	2.54E-05	4.25E-06	2.35E-05	1.1301E-03
520170.99	4257632.88	5354.13037	0.05741	2.76676	0.05666	2.19976	1.07E-03	2.35E-06	9.90E-05	2.32E-06	7.55E-05	1.2514E-03
519777.19	4258727.45	5333.2605	0.14186	0.26709	0.1462	0.2635	1.07E-03	5.81E-06	9.55E-06	5.99E-06	9.05E-06	1.0985E-03
520109.48	4257715.4	5328.55012	0.05992	12.08479	0.05987	13.99482	1.07E-03	2.45E-06	4.32E-04	2.45E-06	4.80E-04	1.9847E-03
520161.17	4257642.85	5327.99353	0.0576	3.98627	0.05694	2.83425	1.07E-03	2.36E-06	1.43E-04	2.33E-06	9.73E-05	1.3116E-03
520131.44	4257684.33	5327.58768	0.05893	14.70756	0.05858	10.42492	1.07E-03	2.41E-06	5.26E-04	2.40E-06	3.58E-04	1.9557E-03
519901.48	4258332.33	5325.45035	0.11852	0.71344	0.12008	0.68723	1.07E-03	4.85E-06	2.55E-05	4.92E-06	2.36E-05	1.1254E-03
519899.88	4258280.9	5316.40564	0.10469	0.70308	0.10582	0.67693	1.06E-03	4.29E-06	2.51E-05	4.33E-06	2.32E-05	1.1217E-03
519782.52	4258716.28	5302.61057	0.14336	0.2758	0.14819	0.27222	1.06E-03	5.87E-06	9.86E-06	6.07E-06	9.35E-06	1.0931E-03
520050.46	4257805.22	5300.87792	0.06233	6.94488	0.06457	4.81615	1.06E-03	2.55E-06	2.48E-04	2.64E-06	1.65E-04	1.4805E-03
520121.62	4257694.29	5295.39672	0.05906	12.38549	0.0588	13.06101	1.06E-03	2.42E-06	4.43E-04	2.41E-06	4.48E-04	1.9567E-03
519903.88	4258209.33	5287.07896	0.09106	0.72035	0.09176	0.69047	1.06E-03	3.73E-06	2.58E-05	3.76E-06	2.37E-05	1.1158E-03
519905.07	4258396.38	5286.99712	0.14164	0.73102	0.1457	0.70323	1.06E-03	5.80E-06	2.61E-05	5.97E-06	2.41E-05	1.1208E-03
520099.66	4257725.37	5285.43556	0.05995	16.61795	0.06012	17.73963	1.06E-03	2.45E-06	5.94E-04	2.46E-06	6.09E-04	2.2668E-03
519905.2	4258198.8	5282.65749	0.08945	0.72597	0.09013	0.69535	1.06E-03	3.66E-06	2.60E-05	3.69E-06	2.39E-05	1.1151E-03
519902.47	4258219.9	5281.51115	0.09268	0.73186	0.09342	0.68476	1.06E-03	3.79E-06	2.55E-05	3.82E-06	2.35E-05	1.1144E-03
519901.97	4258355.39	5281.40031	0.12562	0.71535	0.12772	0.68878	1.06E-03	5.14E-06	2.56E-05	5.23E-06	2.36E-05	1.1173E-03
519903.95	4258447.64	5279.8542	0.16198	0.71106	0.16875	0.68549	1.06E-03	6.63E-06	2.54E-05	6.91E-06	2.35E-05	1.1199E-03
519906.43	4258188.31	5273.35569	0.08787	0.73118	0.08856	0.6998	1.06E-03	3.60E-06	2.62E-05	3.63E-06	2.40E-05	1.1133E-03
520060.31	4257785.25	5271.55166	0.06156	11.01676	0.06327	6.54327	1.06E-03	2.52E-06	3.94E-04	2.59E-06	2.25E-04	1.6795E-03
519770.63	4258735.67	5258.43585	0.13871	0.25774	0.14259	0.25427	1.05E-03	5.68E-06	9.22E-06	5.84E-06	8.73E-06	1.0825E-03
519889.4	4258502.58	5257.38938	0.17198	0.6124	0.18014	0.59384	1.05E-03	7.04E-06	2.19E-05	7.38E-06	2.04E-05	1.1096E-03
519904.62	4258421.76	5247.38309	0.15149	0.723	0.15703	0.69608	1.05E-03	6.20E-06	2.59E-05	6.43E-06	2.39E-05	1.1132E-03
519898.13	4258316.2	5237.35146	0.11268	0.69375	0.11398	0.66857	1.05E-03	4.61E-06	2.48E-05	4.67E-06	2.30E-05	1.1059E-03
520109.51	4257705.4	5236.34251	0.05904	12.97293	0.05896	14.90548	1.05E-03	2.42E-06	4.64E-04	2.41E-06	5.12E-04	2.0292E-03
520161.2	4257632.85	5231.76963	0.05676	3.6372	0.05611	2.63495	1.05E-03	2.32E-06	1.30E-04	2.30E-06	9.05E-05	1.2729E-03
519817.12	4258846.05	5231.69251	0.15462	0.34456	0.16242	0.34	1.05E-03	6.33E-06	1.23E-05	6.65E-06	1.17E-05	1.0847E-03
519839.81	4258599.77	5219.38762	0.1615	0.40646	0.17025	0.39947	1.05E-03	6.61E-06	1.45E-05	6.97E-06	1.37E-05	1.0871E-03
519899.28	4258231.21	5219.25772	0.09392	0.69757	0.09472	0.6694	1.05E-03	3.85E-06	2.50E-05	3.88E-06	2.30E-05	1.1009E-03
519879.48	4258522.02	5218.84974	0.17053	0.56125	0.1787	0.54587	1.05E-03	6.98E-06	2.01E-05	7.32E-06	1.87E-05	1.0983E-03
519849.73	4258580.33	5216.80181	0.1642	0.43963	0.17298	0.43035	1.04E-03	6.72E-06	1.57E-05	7.08E-06	1.48E-05	1.0890E-03
519829.89	4258619.2	5214.18465	0.15845	0.37735	0.16672	0.37187	1.04E-03	6.49E-06	1.35E-05	6.83E-06	1.28E-05	1.0838E-03
520050.49	4257795.22	5210.6365	0.06137	6.8861	0.06355	4.73976	1.04E-03	2.51E-06	2.46E-04	2.60E-06	1.63E-04	1.4576E-03
519859.65	4258560.89	5209.82374	0.16655	0.47617	0.17487	0.46482	1.04E-03	6.82E-06	1.70E-05	7.16E-06	1.60E-05	1.0903E-03
519901.81	4258380.04	5206.66578	0.13377	0.71334	0.13692	0.68657	1.04E-03	5.48E-06	2.55E-05	5.61E-06	2.36E-05	1.1029E-03
519869.57	4258541.46	5206.19266	0.16864	0.51643	0.17679	0.50322	1.04E-03	6.90E-06	1.85E-05	7.24E-06	1.73E-05	1.0925E-03
519807.12	4258664.6	5205.83624	0.1508	0.32236	0.15799	0.31836	1.04E-03	6.17E-06	1.15E-05	6.47E-06	1.09E-05	1.0776E-03
519897.91	4258241.76	5202.42018	0.09559	0.68793	0.09642	0.66132	1.04E-03	3.91E-06	2.46E-05	3.95E-06	2.27E-05	1.0970E-03
520121.65	4257684.29	5196.98659	0.05816	16.62935	0.0579	13.67336	1.04E-03	2.38E-06	5.95E-04	2.37E-06	4.69E-04	2.1097E-03
520099.69	4257715.37	5192.78668	0.05906	16.93762	0.0592	17.94943	1.04E-03	2.42E-06	6.06E-04	2.42E-06	6.16E-04	2.2668E-03
520149.08	4257643.96	5186.7296	0.05686	6.74462	0.05631	3.82387	1.04E-03	2.33E-06	2.41E-04	2.31E-06	1.31E-04	1.4159E-03
519900.29	4258456.53	5186.21635	0.16266	0.68597	0.16953	0.66231	1.04E-03	6.66E-06	2.45E-05	6.94E-06	2.27E-05	1.0995E-03
519797.12	4258683.15	5185.51777	0.14698	0.30242	0.15338	0.29873	1.04E-03	6.02E-06	1.08E-05	6.28E-06	1.03E-05	1.0718E-03
519764.04	4258743.81	5183.19988	0.1356	0.24886	0.13908	0.2455	1.04E-03	5.55E-06	8.90E-06	5.69E-06	8.43E-06	1.0666E-03
520060.34	4257775.25	5181.43474	0.06062	10.92579	0.06228	6.43071	1.04E-03	2.48E-06	3.91E-04	2.55E-06	2.21E-04	1.6543E-03
519896.43	4258252.35	5172.4779	0.09725	0.67911	0.09812	0.65358	1.04E-03	3.98E-06	2.43E-05	4.02E-06	2.24E-05	1.0906E-03
519897.82	4258341.21	5163.5989	0.11928	0.69013	0.12093	0.66526	1.03E-03	4.88E-06	2.47E-05	4.95E-06	2.28E-05	1.0914E-03
520109.54	4257695.4	5143.64936	0.05816	14.65391	0.05807	15.99828	1.03E-03	2.38E-06	5.24E-04	2.38E-06	5.49E-04	2.1082E-03
519894.71	4258300.26	5141.5642	0.10732	0.67375	0.10841	0.64951	1.03E-03	4.39E-06	2.41E-05	4.44E-06	2.23E-05	1.0849E-03
519901.5	4258405.07	5132.13555	0.14265	0.70694	0.14716	0.68099	1.03E-03	5.84E-06	2.53E-05	6.03E-06	2.34E-05	1.0883E-03
519898.46	4258363.92	5131.93006	0.12661	0.69488	0.12901	0.66924	1.03E-03	5.18E-06	2.49E-05	5.28E-06	2.30E-05	1.0860E-03
519889.36	4258492.89	5126.46323	0.16774	0.61509	0.17537	0.59637	1.03E-03	6.87E-06	2.20E-05	7.18E-06	2.05E-05	1.0832E-03
519894.84	4258263	5124.80306	0.0988	0.66776	0.09969	0.64342	1.03E-03	4.05E-06	2.39E-05	4.08E-06	2.21E-05	1.0804E-03
520050.52	4257785.22	5123.30913	0.06044	6.81865	0.06256	4.65281	1.03E-03	2.47E-06	2.44E-04	2.56E-06	1.60E-04	1.4347E-03
519896.63	4258465.41	5116.01031	0.16327	0.66249	0.17027	0.64043	1.02E-03	6.68E-06	2.37E-05	6.97E-06	2.20E-05	1.0839E-03
519901	4258430.54	5112.65063	0.15235	0.69778	0.15815	0.67303	1.02E-03	6.24E-06	2.50E-05	6.48E-06	2.31E-05	1.0847E-03
520099.72	4257705.37	5101.71724	0.05818	17.5361	0.0583	18.04929	1.02E-03	2.38E-06	6.27E-04	2.39E-06	6.20E-04	2.2733E-03
520149.12	4257633.96	5095.83945	0.05604	5.26393	0.05549	3.38387	1.02E-03	2.29E-06	1.88E-04	2.27E-06	1.16E-04	1.3295E-03
520060.38	4257765.25	5093.01715	0.05971	10.83271	0.06131	6.30497	1.02E-03	2.44E-06	3.87E-04	2.51E-06	2.16E-04	1.6288E-03
519894.51	4258325.01	5090.75504	0.11341	0.67209	0.11472	0.64824	1.02E-03	4.64E-06	2.40E-05	4.70E-06	2.23E-05	1.0751E-03
519893.11	4258273.7	5082.02602	0.10055	0.65994	0.10145	0.63634	1.02E-03	4.12E-06	2.36E-05	4.15E-06	2.18E-05	1.0715E-03
519785.45	4258899.45	5075.2046	0.14149	0.28247	0.14693	0.27908	1.02E-03	5.79E-06	1.01E-05	6.02E-06	9.58E-06	1.0479E-03
519817.12	4258636.77	5073.6588	0.15208	0.34659	0.15976	0.34203	1.02E-03	6.23E-06	1.24E-05	6.54E-06	1.17E-05	1.0530E-03
519879.44	4258512.32	5073.0554	0.16448	0.56398	0.17427	0.54845	1.02E-03	6.82E-06	2.02E-05	7.14E-06	1.88E-05	1.0689E-03
520139.3	4257643.93	5066.13413	0.05617	9.17068	0.05569	4.83437	1.01E-03	2.30E-06	3.28E-04	2.28E-06	1.66E-04	1.5131E-03
519892.98	4258474.3	5061.46595	0.16365	0.63985	0.17074	0.61936	1.01E-03	6.70E-06	2.29E-05	6.99E-06	2.13E-05	1.0715E-03
519839.77	4258590.07	5058.01824	0.15824	0.40943	0.16669	0.4019	1.01E-03	6.48E-06	1.46E-05	6.82E-06	1.38E-05	1.0547E-03
519849.69	4258570.63	5055.58624	0.16067	0.44254	0.1688	0.43291	1.01E-03	6.58E-06	1.58E-05	6.91E-06	1.49E-05	1.0566E-03
519829.85	4258609.51	5053.87735	0.15548	0.37972	0.1636	0.37409	1.01E-03	6.37E-06	1.36E-05	6.70E-06	1.28E-05	1.0516E-03
520109.57	4257685.4	5051.24348	0.05729	18.11687	0.05719	16.14073	1.01E-03	2.35E-06	6.48E-04	2.34E-06	5.54E-04	2.2184E-03
519869.53	4258531.76	5050.98463	0.16477	0.51894	0.1725	0.5058	1.01E-03	6.75E-06	1.86E-05	7.06E-06	1.74E-05	1.0613E-03
519859.61	4258551.2	5050.06105	0.16282	0.47876	0.17055	0.46742	1.01E-03	6.67E-06	1.71E-05	6.98E-06	1.60E-05	1.0582E-03
519896.37	4258202.44	5046.52187	0.08775	0.67106	0.08826	0.64371	1.01E-03	3.59E-06	2.40E-05	3.61E-06	2.21E-05	1.0639E-03
519898.27	4258388.65	5045.23844	0.13467	0.69031	0.13824	0.66525	1.01E-03	5.51E-06	2.47E-05	5.66E-06	2.28E-05	1.0691E-03
519807.12	4258655.32	5045.12689	0.14845	0.32421	0.15563	0.32026	1.01E-03	6.08E-06	1.16E-05	6.37E-06	1.10E-05	1.0454E-03
519895	4258213	5044.96186	0.08929	0.66667	0.08985	0.63993	1.01E-03	3.66E-06	2.38E-05	3.68E-06	2.20E-05	1.0635E-03
519897.66	4258191.92	5041.85514	0.08623	0.67543	0.08671	0.64737	1.01E-03	3.53E-06	2.42E-05	3.55E-06	2.22E-05	1.0632E-03
520050.56	4257775.22	5038.20556	0.05953	6.7432	0.06159	4.55385	1.01E-03	2.44E-06	2.41E-04	2.52E-06	1.56E-04	1.4115E-03
519893.52	4258223.6	5032.12637	0.0908	0.66181	0.09144	0.63541	1.01E-03	3.72E-06	2.37E-05	3.74E-06	2.18E-05	1.0607E-03
519773.47	4258718.6	5023.96459	0.13689	0.26374	0.14118	0.26059	1.01E-03	5.60E-06	9.43E-06	5.78E-06	8.95E-06	1.0359E-03
519797.12	4258673.87	5020.42155	0.14477	0.30406	0.15126	0.30053	1.01E-03	5.93E-06	1.09E-05	6.19E-06	1.03E-05	1.0387E-03
519889.32	4258483.19	5015.82869	0.16376	0.6179	0.17093	0.599	1.00E-03	6.71E-06	2.21E-05	7.00E-06	2.06E-05	1.0609E-03
520099.75	4257695.37	5013.91724	0.05733	18.73064	0.05742	18.30026	1.00E-03	2.35E-06	6.70E-04	2.35E-06	6.28E-04	2.3070E-03
520060.41	4257755.25	5006.5467	0.05881	10.7165	0.06037	6.15462	1.00E-03	2.41E-06	3.83E-04	2.47E-06	2.11E-04	1.6021E-03
519778.9	4258707.69	5005.64155	0.13847	0.2723	0.14328	0.26914	1.00E-03	5.67E-06	9.74E-06	5.87E-06	9.24E-06	1.0330E-03
519891.12	4258308.98	5004.655	0.10795	0.65265	0.10901	0.62985	1.00E-03	4.42E-06	2.33E-05	4.46E-06	2.16E-05	1.0561E-03
519897.39	4258439.32	4999.58673	0.15313	0.67401	0.1591	0.65114	1.00E-03	6.27E-06	2.41E-05	6.51E-06	2.24E-05	1.0605E-03
519894.17	4258350.1	4998.92315	0.11998	0.66736	0.12181	0.64382	1.00E-03	4.91E-06	2.39E-05	4.99E-06	2.21E-05	1.0570E-03
519897.92	4258413.76	4989.16585	0.14357	0.68352	0.14845	0.65945	9.99E-04	5.88E-06	2.44E-05	6.08E-06	2.26E-05	1.0582E-03
520139.33	4257633.93	4978.67429	0.05537	6.42921	0.05489	4.0221	9.97E-04	2.27E-06	2.30E-04	2.25E-06	1.38E-04	1.3696E-03
519890.59	4258234.79	4973.43861	0.09203	0.646	0.09271	0.6212	9.96E-04	3.77E-06	2.31E-05	3.80E-06	2.13E-05	1.0480E-03
519894.95	4258372.45	4963.07302	0.1273	0.67179	0.13002	0.64796	9.94E-04	5.21E-06	2.40E-05	5.32E-06	2.22E-05	1.0507E-03
519766.94	4258726.88	4956.53647	0.13393	0.25464	0.13775	0.25159	9.93E-04	5.48E-06	9.11E-06	5.64E-06	8.64E-06	1.0215E-03
520129.53	4257644.69	4954.94196	0.05554	10.86743	0.05513	5.82343	9.92E-04	2.27E-06	3.89E-04	2.26E-06	2.00E-04	1.5855E-03
520050.59	4257765.22	4954.64642	0.05865	6.65111	0.06065	4.43773	9.92E-04	2.40E-06	2.38E-04	2.48E-06	1.52E-04	1.3874E-03
519889.16	4258245.37	4949.56427	0.0936	0.638	0.09431	0.61434	9.91E-04	3.83E-06	2.28E-05	3.86E-06	2.11E-05	1.0428E-03
519890.89	4258333.81	4939.75483	0.1141	0.651	0.1155	0.6284	9.89E-04	4.67E-06	2.33E-05	4.73E-06	2.16E-05	1.0435E-03
519879.4	4258502.62	4934.56208	0.16252	0.56645	0.16989	0.55077	9.88E-04	6.65E-06	2.03E-05	6.96E-06	1.89E-05	1.0410E-03
520099.78	4257685.37	4927.36788	0.05649	21.40745	0.05656	17.37709	9.87E-04	2.31E-06	7.66E-04	2.32E-06	5.97E-04	2.3537E-03
520060.44	4257745.25	4922.76009	0.05794	10.57235	0.05945	5.97246	9.86E-04	2.37E-06	3.78E-04	2.43E-06	2.05E-04	1.5739E-03
519887.66	4258293.12	4918.49098	0.103	0.63567	0.10391	0.61332	9.85E-04	4.22E-06	2.27E-05	4.25E-06	2.10E-05	1.0373E-03
519887.62	4258255.99	4909.9268	0.09513	0.62925	0.09586	0.60669	9.83E-04	3.90E-06	2.25E-05	3.92E-06	2.08E-05	1.0344E-03
519839.73	4258580.37	4906.36282	0.15502	0.41215	0.16294	0.40417	9.83E-04	6.35E-06	1.47E-05	6.67E-06	1.39E-05	1.0242E-03
519869.48	4258522.06	4905.52177	0.16099	0.52104	0.16832	0.50801	9.82E-04	6.59E-06	1.86E-05	6.89E-06	1.74E-05	1.0320E-03
519849.65	4258560.94	4903.46845	0.15722	0.44501	0.16469	0.43528	9.82E-04	6.44E-06	1.59E-05	6.74E-06	1.49E-05	1.0260E-03
519829.81	4258599.81	4902.88962	0.15252	0.38229	0.16048	0.37626	9.82E-04	6.24E-06	1.37E-05	6.57E-06	1.29E-05	1.0213E-03
519893.78	4258448.1	4900.70855	0.15371	0.65113	0.15978	0.63002	9.81E-04	6.29E-06	2.33E-05	6.54E-06	2.16E-05	1.0392E-03
519859.57	4258541.5	4899.50746	0.1592	0.4811	0.16648	0.46984	9.81E-04	6.52E-06	1.72E-05	6.82E-06	1.61E-05	1.0279E-03
519807.12	4258646.05	4896.2286	0.14614	0.32603	0.15323	0.32209	9.81E-04	5.98E-06	1.17E-05	6.27E-06	1.11E-05	1.0155E-03
519819.89	4258619.25	4891.11679	0.14969	0.35589	0.15724	0.35117	9.80E-04	6.13E-06	1.27E-05	6.44E-06	1.21E-05	1.0169E-03
519894.73	4258397.25	4889.82136	0.13548	0.66768	0.13944	0.64452	9.79E-04	5.55E-06	2.39E-05	5.71E-06	2.21E-05	1.0365E-03
519760.37	4258735.08	4888.82848	0.131	0.246	0.1344	0.24302	9.79E-04	5.36E-06	8.80E-06	5.50E-06	8.34E-06	1.0071E-03
520050.62	4257755.22	4872.35194	0.05778	6.53993	0.05973	4.30174	9.76E-04	2.37E-06	2.34E-04	2.45E-06

519879.32	4258483.23	4700.47527	0.15505	0.57095	0.16153	0.555	9.41E-04	6.35E-06	2.04E-05	6.61E-06	1.91E-05	9.9377E-04
520060.53	4257715.25	4681.49453	0.05544	9.83815	0.05683	5.07588	9.38E-04	2.27E-06	3.52E-04	2.33E-06	1.74E-04	1.4683E-03
519763.24	4258718.09	4680.8441	0.12947	0.25142	0.13326	0.24877	9.37E-04	5.30E-06	8.99E-06	5.46E-06	8.54E-06	9.6569E-04
519887.93	4258389.51	4674.44912	0.12901	0.63214	0.13253	0.61108	9.36E-04	5.28E-06	2.26E-05	5.43E-06	2.10E-05	9.6042E-04
519880.54	4258310.43	4663.87262	0.10417	0.59771	0.10506	0.57773	9.34E-04	4.27E-06	2.14E-05	4.30E-06	1.98E-05	9.8378E-04
519878.81	4258259.63	4661.41098	0.09306	0.585	0.09364	0.56476	9.34E-04	3.81E-06	2.09E-05	3.83E-06	1.94E-05	9.8147E-04
519887.2	4258439.83	4647.24839	0.14564	0.61857	0.15103	0.59958	9.31E-04	5.96E-06	2.21E-05	6.18E-06	2.06E-05	9.8553E-04
519869.4	4258502.67	4645.89149	0.15392	0.52577	0.16065	0.51239	9.30E-04	6.30E-06	1.88E-05	6.58E-06	1.76E-05	9.7968E-04
520050.71	4257725.22	4637.13174	0.0553	6.00652	0.05711	3.69932	9.29E-04	2.26E-06	2.15E-04	2.34E-06	1.27E-04	1.2751E-03
519883.65	4258351.41	4634.06165	0.11536	0.61074	0.11722	0.59048	9.28E-04	4.72E-06	2.18E-05	4.80E-06	2.03E-05	9.7967E-04
519887.65	4258414.47	4630.07672	0.13712	0.62657	0.14169	0.60654	9.27E-04	5.61E-06	2.24E-05	5.80E-06	2.08E-05	9.8189E-04
520107.69	4257635.77	4628.28664	0.05327	8.4976	0.05309	4.77496	9.27E-04	2.18E-06	3.04E-04	2.17E-06	1.64E-04	1.3991E-03
519839.65	4258560.98	4626.83009	0.1487	0.14988	0.15548	0.40853	9.27E-04	6.09E-06	1.49E-05	6.37E-06	1.40E-05	9.6798E-04
519829.73	4258580.41	4626.54466	0.14664	0.38739	0.15388	0.3804	9.27E-04	6.00E-06	1.39E-05	6.30E-06	1.31E-05	9.6575E-04
519859.48	4258522.1	4623.23369	0.15231	0.48519	0.15894	0.47403	9.26E-04	6.24E-06	1.74E-05	6.51E-06	1.63E-05	9.7224E-04
519849.57	4258541.54	4622.45572	0.15057	0.44926	0.15711	0.43962	9.26E-04	6.16E-06	1.61E-05	6.43E-06	1.51E-05	9.6947E-04
519880.14	4258199.16	4622.21412	0.08309	0.58416	0.0834	0.56104	9.26E-04	3.40E-06	2.09E-05	3.41E-06	1.93E-05	9.7263E-04
519784.63	4258673.69	4620.12954	0.13519	0.28526	0.14098	0.28229	9.25E-04	5.54E-06	1.02E-05	5.77E-06	9.69E-06	9.5649E-04
519756.7	4258726.35	4618.30897	0.12668	0.24302	0.13009	0.2404	9.25E-04	5.19E-06	8.69E-06	5.33E-06	8.25E-06	9.5234E-04
519819.81	4258599.85	4618.19252	0.14431	0.3602	0.15158	0.35408	9.25E-04	5.91E-06	1.29E-05	6.21E-06	1.22E-05	9.6204E-04
519878.73	4258209.72	4610.99204	0.08443	0.58003	0.0848	0.55762	9.23E-04	3.46E-06	2.07E-05	3.47E-06	1.91E-05	9.7023E-04
520060.56	4257705.25	4606.37598	0.05466	9.36872	0.05601	4.59109	9.22E-04	2.24E-06	3.35E-04	2.29E-06	1.58E-04	1.4197E-03
519809.89	4258619.29	4600.10303	0.14167	0.33622	0.14859	0.33212	9.21E-04	5.80E-06	1.20E-05	6.08E-06	1.14E-05	9.5655E-04
519797.12	4258646.05	4594.75738	0.13836	0.30895	0.14482	0.30551	9.20E-04	5.67E-06	1.11E-05	5.93E-06	1.05E-05	9.5330E-04
519877.23	4258220.33	4590.66411	0.08574	0.57676	0.08621	0.55457	9.19E-04	3.51E-06	2.06E-05	3.53E-06	1.90E-05	9.6605E-04
520097.87	4257645.74	4589.17209	0.05325	13.38336	0.05328	5.66338	9.19E-04	2.18E-06	4.79E-04	2.18E-06	1.94E-04	1.5965E-03
519880.35	4258335.16	4589.13129	0.1099	0.59645	0.11126	0.57675	9.19E-04	4.50E-06	2.13E-05	4.56E-06	1.98E-05	9.6923E-04
519876.77	4258295.33	4587.11759	0.09958	0.5811	0.1003	0.56139	9.19E-04	4.08E-06	2.08E-05	4.11E-06	1.93E-05	9.6687E-04
519883.62	4258448.52	4571.37316	0.14615	0.59916	0.15164	0.58139	9.15E-04	5.98E-06	2.14E-05	6.21E-06	2.00E-05	9.6906E-04
519875.62	4258230.98	4566.52265	0.08711	0.56853	0.08757	0.54773	9.15E-04	3.57E-06	2.03E-05	3.59E-06	1.88E-05	9.6080E-04
520050.74	4257715.22	4563.54471	0.05452	5.70967	0.05628	3.40611	9.14E-04	2.23E-06	2.04E-04	2.30E-06	1.17E-04	1.2396E-03
519883.2	4258376.76	4556.71447	0.12262	0.60989	0.12555	0.58984	9.13E-04	5.02E-06	2.18E-05	5.14E-06	2.02E-05	9.6477E-04
519778.17	4258682.15	4554.94664	0.13235	0.27498	0.13769	0.27221	9.12E-04	5.42E-06	9.84E-06	5.64E-06	9.35E-06	9.4243E-04
520107.72	4257625.77	4552.71353	0.05254	5.96601	0.05234	3.61165	9.12E-04	2.15E-06	2.13E-04	2.14E-06	1.24E-04	1.2534E-03
519884.42	4258398.05	4538.06693	0.12973	0.6126	0.13356	0.59314	9.09E-04	5.31E-06	2.19E-05	5.47E-06	2.04E-05	9.6186E-04
519876.98	4258319.08	4532.69976	0.10474	0.58049	0.10573	0.56144	9.08E-04	4.29E-06	2.08E-05	4.33E-06	1.93E-05	9.5639E-04
520060.59	4257695.25	4532.40613	0.05389	8.67277	0.0552	3.99918	9.08E-04	2.21E-06	3.10E-04	2.26E-06	1.37E-04	1.3597E-03
519869.36	4258492.97	4529.30533	0.15048	0.52773	0.15683	0.5142	9.07E-04	6.16E-06	1.89E-05	6.42E-06	1.77E-05	9.5617E-04
519884.11	4258423.07	4515.20061	0.13773	0.60676	0.14246	0.58827	9.04E-04	5.64E-06	2.17E-05	5.83E-06	2.02E-05	9.5760E-04
519873.22	4258241.96	4514.93519	0.08831	0.55911	0.08877	0.5392	9.04E-04	3.62E-06	2.00E-05	3.63E-06	1.85E-05	9.4994E-04
520097.9	4257635.74	4514.80896	0.05251	8.15428	0.05253	4.11655	9.04E-04	2.15E-06	2.92E-04	2.15E-06	1.41E-04	1.3414E-03
519873.42	4258279.22	4512.69717	0.09517	0.5637	0.09573	0.54466	9.04E-04	3.90E-06	2.02E-05	3.92E-06	1.87E-05	9.5041E-04
519880.05	4258457.2	4512.1099	0.14655	0.58064	0.15213	0.56399	9.04E-04	6.00E-06	2.08E-05	6.23E-06	1.94E-05	9.5597E-04
519880.02	4258360.21	4501.27199	0.11631	0.59477	0.11853	0.57546	9.01E-04	4.76E-06	2.13E-05	4.85E-06	1.98E-05	9.5209E-04
519829.69	4258570.72	4498.74189	0.14374	0.38968	0.15047	0.38237	9.01E-04	5.89E-06	1.39E-05	6.16E-06	1.31E-05	9.4005E-04
519859.44	4258512.41	4497.46069	0.14904	0.48715	0.15543	0.47592	9.01E-04	6.10E-06	1.74E-05	6.36E-06	1.63E-05	9.4691E-04
519839.61	4258551.28	4496.30002	0.14564	0.41886	0.15193	0.41045	9.00E-04	5.96E-06	1.50E-05	6.22E-06	1.41E-05	9.4170E-04
519819.77	4258590.15	4492.7195	0.14163	0.36249	0.14864	0.35681	9.00E-04	5.80E-06	1.30E-05	6.09E-06	1.22E-05	9.3683E-04
519849.53	4258531.84	4492.01431	0.1474	0.45115	0.15366	0.44155	9.00E-04	6.04E-06	1.61E-05	6.29E-06	1.52E-05	9.4321E-04
520050.77	4257705.22	4490.79654	0.05376	5.31856	0.05547	3.06676	8.99E-04	2.20E-06	1.90E-04	2.27E-06	1.05E-04	1.1993E-03
519771.67	4258690.5	4487.7496	0.12948	0.26527	0.13442	0.26262	8.99E-04	5.30E-06	9.49E-06	5.50E-06	9.02E-06	9.2804E-04
519809.85	4258609.59	4477.82481	0.13923	0.33805	0.14603	0.33381	8.97E-04	5.70E-06	1.21E-05	5.98E-06	1.15E-05	9.3198E-04
519766.03	4258700.91	4476.51688	0.12758	0.25692	0.13216	0.25423	8.96E-04	5.22E-06	9.19E-06	5.41E-06	8.73E-06	9.2504E-04
519871.67	4258252.59	4475.38355	0.08969	0.5525	0.09014	0.53337	8.96E-04	3.67E-06	1.98E-05	3.69E-06	1.83E-05	9.4169E-04
519797.12	4258636.77	4473.7978	0.13627	0.3105	0.14263	0.30707	8.96E-04	5.58E-06	1.11E-05	5.84E-06	1.05E-05	9.2901E-04
519876.47	4258465.89	4464.86384	0.14677	0.56265	0.15244	0.54713	8.94E-04	6.01E-06	2.01E-05	6.24E-06	1.88E-05	9.4531E-04
519873.09	4258304.29	4459.83184	0.10011	0.56327	0.10087	0.54473	8.93E-04	4.10E-06	2.01E-05	4.13E-06	1.87E-05	9.4022E-04
520060.63	4257685.25	4459.24021	0.05314	7.6374	0.05441	3.37605	8.93E-04	2.18E-06	2.73E-04	2.23E-06	1.16E-04	1.2865E-03
519787.36	4258656.36	4457.9352	0.13352	0.29196	0.13949	0.28891	8.93E-04	5.47E-06	1.04E-05	5.71E-06	9.92E-06	9.2430E-04
519876.76	4258343.88	4448.17379	0.11051	0.5789	0.11214	0.56021	8.91E-04	4.52E-06	2.07E-05	4.59E-06	1.92E-05	9.3986E-04
520097.93	4257625.74	4442.50073	0.0518	5.53467	0.05318	3.12806	8.90E-04	2.12E-06	1.98E-04	2.12E-06	1.07E-04	1.1993E-03
519872.9	4258474.58	4435.41964	0.14696	0.54565	0.15276	0.53112	8.88E-04	6.02E-06	1.95E-05	6.25E-06	1.82E-05	9.3828E-04
519759.55	4258709.31	4426.40771	0.12517	0.24824	0.12912	0.2458	8.86E-04	5.12E-06	8.88E-06	5.29E-06	8.44E-06	9.1418E-04
519871.37	4258202.78	4422.60091	0.08152	0.5447	0.0818	0.52368	8.86E-04	3.34E-06	1.95E-05	3.35E-06	1.80E-05	9.2983E-04
519869.32	4258483.27	4420.58663	0.14711	0.52945	0.15306	0.51583	8.85E-04	6.02E-06	1.89E-05	6.27E-06	1.77E-05	9.3422E-04
520050.81	4257695.22	4420.5163	0.05301	4.81166	0.05468	2.70871	8.85E-04	2.17E-06	1.72E-04	2.24E-06	9.30E-05	1.1548E-03
519880.57	4258431.68	4420.07131	0.1383	0.58817	0.14314	0.57095	8.85E-04	5.66E-06	2.10E-05	5.86E-06	1.96E-05	9.3734E-04
519880.91	4258406.58	4420.04466	0.13047	0.59461	0.13457	0.57642	8.85E-04	5.34E-06	2.13E-05	5.51E-06	1.98E-05	9.3708E-04
519879.54	4258385.65	4416.96941	0.12338	0.59131	0.12668	0.57265	8.85E-04	5.05E-06	2.12E-05	5.19E-06	1.97E-05	9.3561E-04
519869.91	4258213.37	4405.85927	0.08277	0.54202	0.08312	0.52132	8.82E-04	3.39E-06	1.94E-05	3.40E-06	1.79E-05	9.2641E-04
519873.42	4258327.74	4402.23871	0.10533	0.56431	0.10651	0.54611	8.82E-04	4.31E-06	2.02E-05	4.36E-06	1.87E-05	9.2922E-04
519869.76	4258288.1	4402.16979	0.09573	0.54947	0.09632	0.53099	8.82E-04	3.92E-06	1.97E-05	3.94E-06	1.82E-05	9.2734E-04
519780.97	4258664.98	4395.85791	0.13084	0.28134	0.13647	0.27853	8.80E-04	5.36E-06	1.01E-05	5.59E-06	9.56E-06	9.1090E-04
519868.35	4258224	4381.77522	0.08404	0.53669	0.08441	0.51678	8.78E-04	3.44E-06	1.92E-05	3.46E-06	1.77E-05	9.2135E-04
519859.4	4258502.71	4379.62971	0.14586	0.48898	0.15197	0.47762	8.77E-04	5.97E-06	1.75E-05	6.22E-06	1.64E-05	9.2316E-04
519829.65	4258561.02	4375.67471	0.1409	0.39145	0.14706	0.3841	8.76E-04	5.77E-06	1.04E-05	6.02E-06	1.32E-05	9.1527E-04
519819.73	4258580.46	4373.37667	0.13896	0.36472	0.14559	0.35859	8.76E-04	5.69E-06	1.30E-05	5.96E-06	1.23E-05	9.1284E-04
519753.03	4258717.62	4372.10832	0.12265	0.23995	0.12608	0.23767	8.76E-04	5.02E-06	8.58E-06	5.16E-06	8.16E-06	9.0250E-04
519839.57	4258541.58	4371.23129	0.14266	0.42059	0.1486	0.41223	8.75E-04	5.84E-06	1.50E-05	6.08E-06	1.42E-05	9.1652E-04
519849.48	4258522.15	4367.81373	0.14433	0.4529	0.15036	0.4433	8.75E-04	5.91E-06	1.62E-05	6.16E-06	1.52E-05	9.1820E-04
519876.4	4258369.02	4366.61948	0.11709	0.57792	0.11969	0.55963	8.74E-04	4.79E-06	2.07E-05	4.90E-06	1.92E-05	9.2405E-04
519809.81	4258599.89	4360.87578	0.13678	0.34007	0.14346	0.33547	8.73E-04	5.60E-06	1.22E-05	5.87E-06	1.15E-05	9.0848E-04
520050.84	4257685.22	4349.84048	0.05277	4.20248	0.05391	2.36895	8.71E-04	2.14E-06	1.50E-04	2.21E-06	8.13E-05	1.1071E-03
519866.67	4258234.68	4349.36172	0.08531	0.52975	0.08567	0.51086	8.71E-04	3.49E-06	1.89E-05	3.51E-06	1.75E-05	9.1451E-04
519877.03	4258440.28	4339.01346	0.13874	0.57027	0.14365	0.55422	8.69E-04	5.68E-06	2.04E-05	5.88E-06	1.90E-05	9.1993E-04
519799.89	4258619.33	4337.55388	0.13431	0.31813	0.14066	0.31453	8.69E-04	5.50E-06	1.14E-05	5.76E-06	1.08E-05	9.0209E-04
519774.53	4258673.49	4333.35922	0.12817	0.27128	0.13341	0.26869	8.68E-04	5.25E-06	9.70E-06	5.46E-06	9.22E-06	8.9745E-04
519869.4	4258313.25	4330.59221	0.10065	0.54689	0.10153	0.52929	8.67E-04	4.12E-06	1.96E-05	4.16E-06	1.82E-05	9.1327E-04
519866.17	4258272.08	4327.69683	0.09158	0.53172	0.092	0.51401	8.67E-04	3.75E-06	1.90E-05	3.77E-06	1.76E-05	9.1086E-04
519873.17	4258352.61	4310.33549	0.11113	0.56216	0.11308	0.54454	8.63E-04	4.55E-06	2.01E-05	4.63E-06	1.87E-05	9.1119E-04
519877.4	4258415.11	4309.45263	0.13108	0.57689	0.13535	0.55999	8.63E-04	5.37E-06	2.06E-05	5.54E-06	1.92E-05	9.1378E-04
519864.54	4258245.55	4299.24466	0.08649	0.52182	0.08683	0.5037	8.61E-04	3.54E-06	1.87E-05	3.56E-06	1.73E-05	9.0404E-04
519866.11	4258296.99	4287.76717	0.09628	0.53466	0.09693	0.51685	8.59E-04	3.94E-06	1.91E-05	3.97E-06	1.77E-05	9.0347E-04
519875.89	4258394.53	4285.18656	0.12404	0.57291	0.12761	0.55571	8.58E-04	5.08E-06	2.05E-05	5.22E-06	1.91E-05	9.0804E-04
519873.49	4258448.89	4273.04049	0.13905	0.55309	0.14403	0.53811	8.56E-04	5.69E-06	1.98E-05	5.90E-06	1.85E-05	9.0558E-04
519869.86	4258336.39	4272.47501	0.10594	0.54882	0.10737	0.5315	8.56E-04	4.34E-06	1.96E-05	4.40E-06	1.82E-05	9.0223E-04
519768.05	4258681.91	4270.88926	0.12551	0.26176	0.13036	0.25934	8.55E-04	5.14E-06	9.36E-06	5.34E-06	8.90E-06	8.8405E-04
519859.36	4258493.01	4265.19398	0.1427	0.49053	0.14849	0.47906	8.54E-04	5.84E-06	1.75E-05	6.08E-06	1.64E-05	9.0008E-04
519819.69	4258570.76	4258.494	0.13632	0.36675	0.14248	0.36031	8.53E-04	5.58E-06	1.11E-05	5.83E-06	1.24E-05	8.8972E-04
519829.61	4258551.32	4257.12037	0.13811	0.39315	0.14385	0.38579	8.53E-04	5.65E-06	1.41E-05	5.89E-06	1.32E-05	8.9140E-04
519783.67	4258647.59	4253.65179	0.1292	0.28776	0.1349	0.28486	8.52E-04	5.29E-06	1.03E-05	5.52E-06	9.78E-06	8.8274E-04
519762.31	4258692.06	4252.44885	0.12366	0.25348	0.12814	0.25112	8.52E-04	5.06E-06	9.07E-06	5.25E-06	8.62E-06	8.7961E-04
519839.53	4258531.88	4250.95863	0.13978	0.42221	0.14547	0.41389	8.51E-04	5.72E-06	1.51E-05	5.96E-06	1.42E-05	8.9230E-04
519849.44	4258512.45	4249.97586	0.14137	0.45458	0.1472	0.44492	8.51E-04	5.79E-06	1.63E-05	6.03E-06	1.53E-05	8.9447E-04
519809.77	4258590.2	4249.80862	0.13433	0.34211	0.14079	0.33707	8.51E-04	5.50E-06	1.22E-05	5.76E-06	1.16E-05	8.8616E-04
519872.78	4258377.82	4232.6129	0.11776	0.5608	0.12069	0.5438	8.48E-04	4.82E-06	2.01E-05	4.94E-06	1.87E-05	8.9613E-04
519862.61	4258206.39	4231.48306	0.07995	0.51019	0.08022	0.49069	8.47E-04	3.27E-06	1.82E-05	3.28E-06	1.68E-05	8.8906E-04
519799.85	4258609.63	4229.7244	0.13208	0.3198	0.13834	0.31603	8.47E-04	5.41E-06	1.14E-05	5.66E-06	1.08E-05	8.8042E-04
519862.75	4258280.89	4229.12653	0.09212	0.51891	0.09258	0.50173	8.47E-04	3.77E-06	1.86E-05	3.79E-06	1.72E-05	8.9029E-04
519869.94	4258457.5	4226.96904	0.13935	0.53696	0.14443	0.52284	8.47E-04	5.71E-06	1.92E-05	5.91E-06	1.79E-05	8.9528E-04
519873.89	4258423.64	4213.08971	0.13157	0.55964	0.13594	0.54395	8.44E-04	5.39E-06	2.00E-05	5.57E-06	1.87E-05	8.9337E-04
519861.09	4258217.01	4209.08557	0.08114	0.50604	0.08143	0.48719	8.43E-04	3.32E-06	1.81E-05	3.33E-06	1.67E-05	8.8441E-04
519865.71	4258322.22	4204.03236	0.10124	0.53186	0.10233	0.51505	8.42E-04	4.15E-06	1.90E-05	4.19E-06	1.77E-05	8.8696E-04
519789.93	4258629.07	4201.72767	0.1296	0.30002	0.13547	0.29691	8.41E-04	5.31E-06	1.07E-05	5.55E-06	1.02E-05	8.7323E-04
519777.3	4258656.27	4194.4603	0.12671	0.27741	0.13211	0.27473	8.40E-04	5.19E-06	9.92E-06	5.41E-06	9.43E-06	8.6995E-04
519866.4	4258466.1	4192.84573	0.13952	0.52133	0.14471	0.50811	8.40E-04	5.71E-06	1.86E-05	5.93E-06	1.74E-05	8.8740E-04
519755.85	4258700.52	4192.53086	0.12102	0.245	0.12517	0.24264	8.40E-04	4.96E-06	8.76E-06	5.12E-06	8.33E-06	8.6678E-04
519869.58	4258361.33	4185.12565	0.11191	0.54745	0.11421	0.53081	8.38E-04	4.58E-06	1.96E-05	4.68E-06	1.82E-05	8.8519E-04
519859.47	4258227.66	4179.35828	0.08234	0.50015	0.08262	0.4822	8.37E-04	3.37E-06	1.79E-05	3.38E-06	1.66E-05	8.7817E-04
519862.86	4258474.71	4172.75118	0.13964	0.50641	0.14497	0.49401	8.36E-04	5.72E-06	1.81E-05	5.94E-06	1.70E-05	8.8238E-04
519862.45	4258305.88	4170.11171	0.09681	0.51964	0.09758	0.50283	8.35E-04	3.96E-06	1.86E-05	4.00E-06	1.73E-05	8.7893E-04
520058.71	4257645.62	4167.69053	0.05016	2.92811	0.05137	1.74632	8.35E-04	2.05E-06	1.05E-04	2.10E-06	6.00E-05	1.0035E-03
519872.23	4258403.42	4165.24308	0.12465	0.55552	0.12843	0.53963	8.34E-04	5.10E-06	1.99E-05	5.26E-06	1.85E-05	8.8291E-04
519859.32	4258483.31	4162.74439	0.13967	0.49201	0.14512	0.48042	8.34E-04	5.72E-06	1.76E-05	5.94E-06	1.65E-05	8.7940E-04
519859.32	4258264.95	4156.97802	0.08821	0.50238	0.08853	0.48569	8.32E-04	3.61E-06	1.80E-05	3.62E-06	1.67E-05	8.7437E-04
519819.65	4258561.06	4147.169	0.13373	0.36836	0.13939	0.36184	8.31E-04	5.48E-06	1.32E-05	5.71E-06	1.24E-05	8.6731E-04
519749.35	4258708.89	4144.56978	0.11874	0.23692	0.12233	0.23479	8.30E-04	4.86E-06	8.47E-06	5.01E-06	8.06E-06	8.5641E-04
519866.1	4258345.05	4143.27527	0.10653	0.53369	0.10827	0.51733	8.30E-04	4.36E-06	1.91E-05	4.43E-06	1.78E-05	8.7539E-04
519809.73	4258580.5	4142.8893	0.1319	0.33406	0.138	0.33862	8.30E-04	5.40E-06	1.23E-05	5.65E-06	1.16E-05	8.6465E-04
519857.72	4258238.37	4141.53687	0.08353	0.49453	0.08379	0.47723	8.29E-04	3.42E-06	1.77E-05	3.43E-06	1.64E-05	8.7032E-04
519849.4	4258502.75	4138.78267	0.1385	0.45616	0.14412	0.44639	8.29E-04	5.67E-06	1.63E-05	5.90E-06	1.53E-05	8.7206E-04
519829.57	4258541.62	4136.67272	0.13523	0.3943	0.14058	0.38708	8.28E-04	5.54E-06	1.41E-05	5.76E-06	1.33E-05	8.6711E-04
519839.48	4258522.19	4135.42047	0.13699	0.4237	0.14249	0.41539	8.28E-04	5.61E-06	1.52E-05	5.83E-06	1.43E-05	8.6903E-04
519770.89	4258664.84	4134.97597	0.12421	0.2676	0.12929	0.26512	8.28E-04	5.09E-06	9.57E-06	5.29E-06	9.10E-06	8.5714E-04
519870.38	4258432.17	4130.97221	0.13198	0.54322	0.13642	0.52858	8.27E-04	5.40E-06	1.94E-05	5.59E-06	1.81E-05	8.7585E-04
519799.81	4258599.93	4127.00352	0.12984	0.32158	0.136	0.31748	8.26E-04	5.32E-06	1.15E-05	5.57E-06	1.09E-05	8.5978E-04
519859.12	4258289.71	4121.93993	0.09263	0.50647	0.09318	0.48976	8.25E-04	3.79E-06	1.81E-05	3.82E-06	1.68E-05	8.6801E-04
519869.16	4258386.62	4107.64485	0.1184	0.54456	0.12163	0.52876	8.23E-04	4.85E-06	1.95E-05	4.98E-06	1.82E-05	8.7007E-04
520058.74	4257635.62	4104.91196	0.0495	2.4012	0.05067	1.52317	8.22E-04	2.03E-06	8.59E-05	2.07E-06	5.23E-05	9.6435E-04
519789.89	4258619.37	4100.41114	0.12755	0.30143	0.13335	0.29826	8.21E-04	5.22E-06	1.08E-05	5.46E-06	1.02E-05	8.5287E-04
519862.02	4258331.18	4074.81257	0.10179	0.51689	0.10314	0.50095	8.16E-04	4.17E-06	1.85E-05	4.22E-06	1.72E-05	8.6011E-04
519764.44	4258673.31	4074.7917	0.12171	0.2583	0.12646	0.256	8.16E-04	4.98E-06	9.24E-06	5.18E-06	8.79E-06	8.4422E-04
520048.92	4257645.58	4070.74567	0.04937	2.12672	0.05093	1.39333	8.15E-04	2.02E-06	7.61E-05	2.09E-06	4.78E-05	9.4323E-04
519779.97	4258638.81	4070.21172	0.12509	0.28353	0.13049	0.28079	8.15E-04	5.12E-06	1.01E-05	5.34E-06	9.64E-06	8.4536E-04
519866.87	4258440.7	4063.36958	0.1323	0.52755	0.13681	0.51384	8.14E-04	5.42E-06	1.89E-05	5.60E-06	1.76E-05	8.6127E-04
519865.99	4258370.06	4060.51281	0.11256	0.53234	0.1152	0.51674	8.13E-04	4.61E-06	1.90E-05	4.72E-06	1.77E-05	8.5928E-04
519855.72	4258273.7	4059.13764	0.08866	0.48982	0.08901	0.47377	8.13E-04	3.63E-06	1.75E-05	3.64E-06	1.63E-05	8.5396E-04
519868.57	4258412.31	4058.66696	0.12517	0.53875	0.12909	0.52404	8.13E-04	5.12E-06	1.93E-05

519859.18	4258362.36	3898.80145	0.10772	0.50542	0.11009	0.49105	7.81E-04	4.41E-06	1.81E-05	4.51E-06	1.69E-05	8.2464E-04
519848.7	4258266.51	3890.18915	0.08516	0.46024	0.08542	0.44511	7.79E-04	3.49E-06	1.65E-05	3.50E-06	1.53E-05	8.1779E-04
519861.26	4258430.08	3889.53006	0.12596	0.50749	0.13004	0.49469	7.79E-04	5.16E-06	1.82E-05	5.32E-06	1.70E-05	8.2455E-04
519779.89	4258619.41	3884.80268	0.12132	0.28599	0.1266	0.28318	7.78E-04	4.97E-06	1.02E-05	5.18E-06	9.72E-06	8.0808E-04
519861.92	4258404.22	3881.35452	0.11937	0.51269	0.1229	0.4993	7.77E-04	4.89E-06	1.83E-05	5.03E-06	1.71E-05	8.2269E-04
519845.08	4258213.63	3871.03495	0.07689	0.44749	0.07706	0.43102	7.75E-04	3.15E-06	1.60E-05	3.16E-06	1.48E-05	8.1233E-04
519754.86	4258674.36	3864.59018	0.11622	0.24668	0.12054	0.24458	7.74E-04	4.76E-06	8.82E-06	4.94E-06	8.40E-06	8.0085E-04
519848.52	4258291.2	3862.82987	0.08966	0.46781	0.09025	0.45269	7.74E-04	3.67E-06	1.67E-05	3.70E-06	1.55E-05	8.1322E-04
519845.09	4258251.01	3852.12449	0.08216	0.45081	0.08235	0.43556	7.71E-04	3.36E-06	1.61E-05	3.37E-06	1.50E-05	8.0925E-04
519769.97	4258638.85	3851.2079	0.119	0.26954	0.1239	0.26708	7.71E-04	4.87E-06	9.64E-06	5.07E-06	9.17E-06	8.0001E-04
519809.61	4258551.41	3839.34812	0.1248	0.34855	0.12966	0.34269	7.69E-04	5.11E-06	1.25E-05	5.31E-06	1.18E-05	8.0353E-04
519799.69	4258570.84	3838.98827	0.12318	0.32661	0.12838	0.32147	7.69E-04	5.04E-06	1.17E-05	5.26E-06	1.10E-05	8.0183E-04
519843.45	4258224.29	3838.50622	0.07796	0.44222	0.0781	0.42652	7.69E-04	3.19E-06	1.58E-05	3.20E-06	1.46E-05	8.0556E-04
519819.53	4258531.97	3830.04031	0.12632	0.37224	0.1311	0.36581	7.67E-04	5.17E-06	1.33E-05	5.37E-06	1.26E-05	8.0343E-04
519858.81	4258387.51	3829.87012	0.11368	0.50306	0.11679	0.48958	7.67E-04	4.65E-06	1.80E-05	4.78E-06	1.68E-05	8.1122E-04
519857.6	4258438.96	3827.62517	0.12622	0.49288	0.13038	0.48089	7.67E-04	5.17E-06	1.76E-05	5.34E-06	1.65E-05	8.1118E-04
519789.77	4258590.28	3825.58183	0.1214	0.30613	0.12687	0.30205	7.66E-04	4.97E-06	1.09E-05	5.19E-06	1.04E-05	7.9761E-04
519854.64	4258349.11	3824.37037	0.1029	0.48877	0.10487	0.47473	7.66E-04	4.21E-06	1.75E-05	4.29E-06	1.63E-05	8.0817E-04
519839.36	4258493.09	3821.08991	0.12917	0.4278	0.13416	0.41918	7.65E-04	5.29E-06	1.53E-05	5.49E-06	1.44E-05	8.0570E-04
519829.44	4258512.53	3819.53858	0.12778	0.39855	0.1327	0.39123	7.65E-04	5.23E-06	1.43E-05	5.43E-06	1.34E-05	8.0327E-04
519748.46	4258682.95	3811.68278	0.11396	0.23856	0.11798	0.23657	7.63E-04	4.67E-06	8.53E-06	4.83E-06	8.12E-06	7.8949E-04
519845.12	4258275.2	3806.93919	0.0858	0.45191	0.08615	0.43724	7.62E-04	3.51E-06	1.62E-05	3.53E-06	1.50E-05	8.0061E-04
519851.48	4258332.54	3806.91152	0.09834	0.47848	0.09985	0.46424	7.62E-04	4.03E-06	1.71E-05	4.09E-06	1.59E-05	8.0355E-04
519779.85	4258609.72	3801.37457	0.11945	0.28726	0.12468	0.2843	7.61E-04	4.89E-06	1.03E-05	5.10E-06	9.76E-06	7.9131E-04
519763.61	4258647.54	3796.03309	0.11682	0.26024	0.12148	0.25792	7.60E-04	4.78E-06	9.31E-06	4.97E-06	8.85E-06	7.8813E-04
519858.29	4258413.02	3794.19963	0.11984	0.49854	0.12349	0.48594	7.60E-04	4.91E-06	1.78E-05	5.06E-06	1.67E-05	8.0432E-04
519855.61	4258371.01	3789.78736	0.10834	0.49268	0.11099	0.47911	7.59E-04	4.44E-06	1.76E-05	4.54E-06	1.64E-05	8.0201E-04
519848.24	4258316.16	3786.64588	0.0941	0.46777	0.09521	0.45333	7.58E-04	3.85E-06	1.67E-05	3.90E-06	1.56E-05	7.9837E-04
519853.95	4258447.85	3779.39162	0.12638	0.47881	0.13062	0.46759	7.57E-04	5.17E-06	1.71E-05	5.35E-06	1.61E-05	8.0058E-04
519769.93	4258629.15	3766.65337	0.11727	0.27061	0.12212	0.26814	7.54E-04	4.80E-06	9.68E-06	5.00E-06	9.21E-06	7.8301E-04
519841.41	4258259.97	3763.11288	0.08257	0.44022	0.08281	0.42551	7.54E-04	3.38E-06	1.57E-05	3.39E-06	1.46E-05	7.9074E-04
519742.01	4258691.44	3761.35006	0.11177	0.23081	0.11542	0.22895	7.53E-04	4.58E-06	8.26E-06	4.73E-06	7.86E-06	7.7868E-04
519844.92	4258299.95	3757.41441	0.09012	0.45649	0.0909	0.44196	7.52E-04	3.69E-06	1.63E-05	3.72E-06	1.52E-05	7.9139E-04
519850.29	4258456.74	3748.82258	0.12653	0.46556	0.13089	0.45498	7.51E-04	5.18E-06	1.67E-05	5.36E-06	1.56E-05	7.9357E-04
519799.65	4258561.14	3746.78149	0.12101	0.32787	0.12581	0.32262	7.50E-04	4.95E-06	1.17E-05	5.15E-06	1.11E-05	7.8325E-04
519809.57	4258541.71	3741.65627	0.12253	0.34964	0.12714	0.34382	7.49E-04	5.02E-06	1.25E-05	5.21E-06	1.18E-05	7.8385E-04
519757.2	4258656.12	3740.99133	0.11464	0.25137	0.11903	0.24921	7.49E-04	4.69E-06	8.99E-06	4.87E-06	8.56E-06	7.7630E-04
519789.73	4258580.58	3739.59975	0.11936	0.30764	0.12452	0.30321	7.49E-04	4.89E-06	1.10E-05	5.10E-06	1.04E-05	7.8030E-04
519819.48	4258522.27	3729.36377	0.12398	0.37345	0.12866	0.36697	7.47E-04	5.08E-06	1.34E-05	5.27E-06	1.26E-05	7.8316E-04
519839.32	4258483.4	3727.95584	0.12666	0.42878	0.1314	0.42003	7.47E-04	5.19E-06	1.53E-05	5.38E-06	1.44E-05	7.8690E-04
519855.22	4258396.23	3727.12778	0.11412	0.48904	0.11737	0.47653	7.46E-04	4.67E-06	1.75E-05	4.81E-06	1.64E-05	7.8974E-04
519846.63	4258465.62	3723.7055	0.12643	0.45224	0.13088	0.44239	7.46E-04	5.18E-06	1.62E-05	5.36E-06	1.52E-05	7.8782E-04
519829.4	4258502.83	3720.18332	0.1254	0.39972	0.13019	0.3923	7.45E-04	5.13E-06	1.43E-05	5.33E-06	1.35E-05	7.8325E-04
519779.81	4258600.02	3720.16493	0.11758	0.28857	0.1227	0.28533	7.45E-04	4.81E-06	1.03E-05	5.02E-06	9.80E-06	7.7497E-04
519841.55	4258283.89	3720.13908	0.08638	0.44329	0.08688	0.42899	7.45E-04	3.54E-06	1.59E-05	3.56E-06	1.47E-05	7.8269E-04
519842.98	4258474.51	3719.36844	0.12653	0.4402	0.13113	0.43095	7.45E-04	5.18E-06	1.57E-05	5.37E-06	1.48E-05	7.8594E-04
519854.67	4258421.83	3716.57041	0.12019	0.4847	0.12393	0.47288	7.44E-04	4.92E-06	1.73E-05	5.07E-06	1.62E-05	7.8786E-04
519850.96	4258358.07	3712.37918	0.10352	0.4764	0.1058	0.46317	7.43E-04	4.24E-06	1.70E-05	4.33E-06	1.59E-05	7.8497E-04
519838.04	4258243.88	3711.70273	0.07935	0.42694	0.07949	0.41239	7.43E-04	3.25E-06	1.53E-05	3.25E-06	1.42E-05	7.7925E-04
519751.14	4258665.52	3701.77493	0.1128	0.2433	0.11694	0.24128	7.41E-04	4.62E-06	8.70E-06	4.79E-06	8.28E-06	7.6772E-04
519836.31	4258217.24	3700.71905	0.07541	0.4192	0.07552	0.40413	7.41E-04	3.09E-06	1.50E-05	3.09E-06	1.39E-05	7.7617E-04
519847.82	4258341.42	3689.02888	0.09884	0.46571	0.10064	0.45238	7.39E-04	4.05E-06	1.67E-05	4.12E-06	1.55E-05	7.7913E-04
519769.89	4258619.46	3688.05895	0.11554	0.2717	0.12036	0.26916	7.39E-04	4.73E-06	9.72E-06	4.93E-06	9.24E-06	7.6720E-04
519852.05	4258379.67	3680.66653	0.10882	0.47956	0.11168	0.46692	7.37E-04	4.46E-06	1.72E-05	4.57E-06	1.60E-05	7.7931E-04
519844.61	4258324.97	3669.95039	0.09453	0.45517	0.09591	0.44164	7.35E-04	3.87E-06	1.63E-05	3.93E-06	1.52E-05	7.7420E-04
519837.73	4258268.92	3669.40876	0.08297	0.42964	0.08329	0.41551	7.35E-04	3.40E-06	1.54E-05	3.41E-06	1.43E-05	7.7129E-04
519799.61	4258551.45	3655.68616	0.11888	0.32897	0.12335	0.32369	7.32E-04	4.87E-06	1.18E-05	5.05E-06	1.11E-05	7.6490E-04
519789.69	4258570.88	3654.88025	0.11734	0.30895	0.12212	0.30429	7.32E-04	4.80E-06	1.11E-05	5.00E-06	1.04E-05	7.6324E-04
519841.32	4258308.7	3650.62525	0.09056	0.44469	0.09157	0.43095	7.31E-04	3.71E-06	1.59E-05	3.75E-06	1.48E-05	7.6924E-04
519759.97	4258638.89	3650.49082	0.11334	0.25657	0.11781	0.2543	7.31E-04	4.64E-06	9.18E-06	4.82E-06	8.73E-06	7.5843E-04
519744.76	4258674.16	3649.80706	0.11067	0.23536	0.11456	0.23345	7.31E-04	4.53E-06	8.42E-06	4.69E-06	8.01E-06	7.5658E-04
519851.05	4258430.63	3649.64506	0.1204	0.47103	0.1242	0.45999	7.31E-04	4.93E-06	1.68E-05	5.09E-06	1.58E-05	7.7355E-04
519809.53	4258532.01	3645.58448	0.12033	0.35064	0.12476	0.34484	7.30E-04	4.93E-06	1.25E-05	5.11E-06	1.18E-05	7.6449E-04
519779.77	4258590.32	3640.62353	0.11567	0.29014	0.12067	0.28646	7.29E-04	4.74E-06	1.04E-05	4.94E-06	9.83E-06	7.5897E-04
519851.63	4258404.96	3634.02745	0.11449	0.47551	0.11783	0.46387	7.28E-04	4.69E-06	1.70E-05	4.82E-06	1.59E-05	7.7021E-04
519819.44	4258512.57	3631.58891	0.12173	0.37447	0.12629	0.36796	7.27E-04	4.98E-06	1.34E-05	5.17E-06	1.26E-05	7.6346E-04
519834.39	4258252.77	3627.41814	0.07972	0.41724	0.07991	0.40321	7.26E-04	3.26E-06	1.49E-05	3.27E-06	1.38E-05	7.6174E-04
519829.36	4258493.14	3626.07207	0.1231	0.40083	0.12775	0.39326	7.26E-04	5.04E-06	1.43E-05	5.23E-06	1.35E-05	7.6428E-04
519837.97	4258292.57	3623.46539	0.08682	0.4333	0.08752	0.41952	7.26E-04	3.55E-06	1.55E-05	3.58E-06	1.44E-05	7.6269E-04
519769.85	4258809.76	3613.77736	0.11382	0.27284	0.1186	0.27014	7.24E-04	4.66E-06	9.76E-06	4.86E-06	9.27E-06	7.5226E-04
519847.27	4258367.04	3600.47184	0.10403	0.46369	0.10656	0.45138	7.21E-04	4.26E-06	1.66E-05	4.36E-06	1.55E-05	7.6175E-04
519753.59	4258647.53	3598.12457	0.11131	0.24792	0.11552	0.2458	7.21E-04	4.56E-06	8.87E-06	4.73E-06	8.44E-06	7.4717E-04
519738.34	4258682.71	3598.09712	0.10853	0.22781	0.11217	0.22597	7.21E-04	4.44E-06	8.15E-06	4.59E-06	7.76E-06	7.4551E-04
519847.43	4258439.43	3596.37869	0.12052	0.45791	0.12438	0.4476	7.20E-04	4.93E-06	1.64E-05	5.08E-06	1.54E-05	7.6200E-04
519830.99	4258236.75	3580.65147	0.0767	0.40473	0.0768	0.39081	7.17E-04	3.14E-06	1.45E-05	3.14E-06	1.34E-05	7.5125E-04
519848.49	4258388.32	3580.44337	0.10923	0.4669	0.11225	0.45509	7.17E-04	4.47E-06	1.67E-05	4.60E-06	1.56E-05	7.5842E-04
519759.93	4258629.19	3576.90525	0.11176	0.25748	0.11618	0.25523	7.16E-04	4.58E-06	9.21E-06	4.76E-06	8.76E-06	7.4363E-04
519844.17	4258350.31	3574.7567	0.09931	0.45334	0.10139	0.44093	7.16E-04	4.07E-06	1.62E-05	4.15E-06	1.51E-05	7.5546E-04
519834.04	4258277.87	3574.40273	0.08337	0.41959	0.08385	0.406	7.16E-04	3.41E-06	1.50E-05	3.43E-06	1.39E-05	7.5162E-04
519789.65	4258561.19	3570.58477	0.11535	0.31005	0.11976	0.30527	7.15E-04	4.72E-06	1.11E-05	4.90E-06	1.05E-05	7.4625E-04
519799.57	4258541.75	3565.28315	0.1168	0.32988	0.12103	0.32463	7.14E-04	4.78E-06	1.18E-05	4.96E-06	1.11E-05	7.4668E-04
519779.73	4258580.62	3562.53845	0.11379	0.2915	0.11851	0.28746	7.13E-04	4.66E-06	1.04E-05	4.85E-06	9.87E-06	7.4325E-04
519843.81	4258448.23	3557.67199	0.12056	0.44538	0.1245	0.43567	7.12E-04	4.94E-06	1.59E-05	5.10E-06	1.50E-05	7.5339E-04
519848.04	4258413.68	3557.28045	0.11485	0.46308	0.11829	0.45208	7.12E-04	4.70E-06	1.66E-05	4.84E-06	1.55E-05	7.5402E-04
519747.42	4258656.67	3554.09694	0.10948	0.23993	0.11346	0.23793	7.12E-04	4.48E-06	8.58E-06	4.65E-06	8.17E-06	7.3763E-04
519840.98	4258333.79	3554.01108	0.09493	0.4428	0.09657	0.43022	7.12E-04	3.89E-06	1.58E-05	3.95E-06	1.48E-05	7.5019E-04
519809.48	4258522.31	3551.03593	0.11819	0.35156	0.1225	0.34576	7.11E-04	4.84E-06	1.26E-05	5.02E-06	1.19E-05	7.4544E-04
519830.73	4258261.65	3543.45299	0.08013	0.40843	0.08042	0.3948	7.10E-04	3.28E-06	1.46E-05	3.29E-06	1.36E-05	7.4438E-04
519769.81	4258600.06	3541.73759	0.11309	0.27406	0.11679	0.27107	7.09E-04	4.59E-06	9.80E-06	4.78E-06	9.31E-06	7.3776E-04
519837.72	4258317.45	3540.66997	0.09096	0.43318	0.09223	0.42028	7.09E-04	3.72E-06	1.55E-05	3.78E-06	1.44E-05	7.4649E-04
519829.32	4258483.44	3538.18745	0.12048	0.40169	0.1253	0.39399	7.09E-04	4.95E-06	1.44E-05	5.13E-06	1.35E-05	7.4654E-04
519819.4	4258502.88	3537.47111	0.11956	0.37541	0.12401	0.36883	7.08E-04	4.90E-06	1.34E-05	5.08E-06	1.27E-05	7.4449E-04
519840.19	4258457.03	3532.41746	0.12055	0.4334	0.1246	0.42425	7.07E-04	4.94E-06	1.55E-05	5.10E-06	1.46E-05	7.4752E-04
519832.94	4258474.64	3525.45211	0.12073	0.41172	0.12505	0.40362	7.06E-04	4.94E-06	1.47E-05	5.12E-06	1.39E-05	7.4467E-04
519834.4	4258301.26	3523.02316	0.08725	0.42351	0.08819	0.41029	7.06E-04	3.57E-06	1.51E-05	3.61E-06	1.41E-05	7.4195E-04
519836.57	4258465.84	3522.38442	0.12062	0.42225	0.12479	0.41364	7.05E-04	4.94E-06	1.51E-05	5.11E-06	1.42E-05	7.4476E-04
519759.89	4258619.5	3507.90104	0.11018	0.25843	0.11457	0.25611	7.03E-04	4.51E-06	9.24E-06	4.69E-06	8.79E-06	7.2974E-04
519741.06	4258665.38	3503.66993	0.10748	0.23219	0.11125	0.23028	7.02E-04	4.40E-06	8.31E-06	4.56E-06	7.91E-06	7.2682E-04
519827.36	4258245.58	3502.41414	0.07706	0.39617	0.07722	0.38271	7.01E-04	3.16E-06	1.42E-05	3.16E-06	1.31E-05	7.3503E-04
519843.58	4258376	3494.04002	0.10446	0.45113	0.10716	0.43972	7.00E-04	4.28E-06	1.61E-05	4.39E-06	1.51E-05	7.3963E-04
519844.45	4258422.41	3490.61464	0.11507	0.45054	0.11857	0.44023	6.99E-04	4.71E-06	1.61E-05	4.85E-06	1.51E-05	7.3984E-04
519844.93	4258396.98	3490.15044	0.1096	0.45435	0.1127	0.44338	6.99E-04	4.49E-06	1.63E-05	4.61E-06	1.52E-05	7.3953E-04
519789.61	4258551.49	3486.42193	0.11339	0.31099	0.1175	0.30618	6.98E-04	4.64E-06	1.11E-05	4.81E-06	1.05E-05	7.2929E-04
519779.69	4258570.93	3485.47186	0.11193	0.29264	0.11631	0.28838	6.98E-04	4.58E-06	1.05E-05	4.76E-06	9.90E-06	7.2773E-04
519830.36	4258286.82	3479.73459	0.0838	0.40318	0.08448	0.39706	6.97E-04	3.43E-06	1.47E-05	3.46E-06	1.36E-05	7.3206E-04
519799.53	4258532.05	3475.42276	0.11478	0.33057	0.11881	0.32539	6.96E-04	4.70E-06	1.18E-05	4.86E-06	1.12E-05	7.2856E-04
519769.77	4258590.36	3469.75195	0.11034	0.2754	0.11491	0.272	6.95E-04	4.52E-06	9.85E-06	4.70E-06	9.34E-06	7.2328E-04
519749.97	4258638.93	3468.59106	0.10812	0.24446	0.11215	0.24238	6.95E-04	4.43E-06	8.74E-06	4.59E-06	8.32E-06	7.2072E-04
519840.51	4258359.2	3467.07227	0.09977	0.44159	0.10208	0.43003	6.94E-04	4.08E-06	1.58E-05	4.18E-06	1.48E-05	7.3315E-04
519823.94	4258229.63	3461.66712	0.07425	0.38475	0.07434	0.37136	6.93E-04	3.04E-06	1.38E-05	3.04E-06	1.27E-05	7.2584E-04
519809.44	4258512.62	3458.90112	0.11613	0.35242	0.12034	0.34658	6.93E-04	4.75E-06	1.26E-05	4.93E-06	1.19E-05	7.2688E-04
519734.66	4258673.98	3454.06173	0.1055	0.22479	0.10903	0.22299	6.92E-04	4.32E-06	8.04E-06	4.46E-06	7.66E-06	7.1620E-04
519827.08	4258270.54	3453.61868	0.0805	0.39918	0.08094	0.38608	6.92E-04	3.30E-06	1.43E-05	3.31E-06	1.33E-05	7.2578E-04
519819.36	4258493.18	3447.56711	0.11745	0.37631	0.12179	0.36959	6.90E-04	4.81E-06	1.35E-05	4.99E-06	1.27E-05	7.2637E-04
519759.85	4258609.8	3442.80668	0.10863	0.25923	0.11291	0.25684	6.89E-04	4.45E-06	9.27E-06	4.62E-06	8.82E-06	7.1663E-04
519837.36	4258342.6	3442.74205	0.0953	0.43106	0.09721	0.41934	6.89E-04	3.90E-06	1.54E-05	3.98E-06	1.44E-05	7.2715E-04
519834.12	4258326.19	3434.25465	0.09137	0.42237	0.09291	0.41027	6.88E-04	3.74E-06	1.51E-05	3.80E-06	1.41E-05	7.2446E-04
519840.86	4258431.13	3433.35948	0.11517	0.43835	0.11873	0.42872	6.88E-04	4.72E-06	1.57E-05	4.86E-06	1.47E-05	7.2755E-04
519823.73	4258254.4	3422.75229	0.07744	0.38807	0.0777	0.375	6.85E-04	3.17E-06	1.39E-05	3.18E-06	1.29E-05	7.1856E-04
519830.82	4258309.95	3421.84187	0.08765	0.41314	0.08884	0.40068	6.85E-04	3.59E-06	1.48E-05	3.64E-06	1.38E-05	7.2103E-04
519743.7	4258647.82	3421.21408	0.1063	0.23656	0.11011	0.23458	6.85E-04	4.35E-06	8.46E-06	4.51E-06	8.05E-06	7.1052E-04
519779.65	4258561.23	3407.97734	0.11009	0.29362	0.11413	0.28922	6.82E-04	4.51E-06	1.05E-05	4.67E-06	9.93E-06	7.1211E-04
519841.37	4258405.63	3407.63991	0.10982	0.44195	0.11298	0.43177	6.82E-04	4.50E-06	1.58E-05	4.63E-06	1.48E-05	7.2218E-04
519749.93	4258629.24	3403.365	0.10665	0.24526	0.11066	0.24317	6.82E-04	4.37E-06	8.77E-06	4.52E-06	8.35E-06	7.0759E-04
519789.57	4258541.79	3402.40903	0.11148	0.31178	0.11536	0.30698	6.81E-04	4.56E-06	1.12E-05	4.72E-06	1.05E-05	7.1236E-04
519769.73	4258580.67	3399.36654	0.10861	0.27659	0.11293	0.27286	6.81E-04	4.45E-06	9.89E-06	4.62E-06	9.37E-06	7.0910E-04
519839.89	4258384.96	3393.95008	0.10479	0.43865	0.10761	0.42811	6.80E-04	4.29E-06	1.57E-05	4.41E-06	1.47E-05	7.1877E-04
519837.27	4258439.86	3389.57149	0.11519	0.42663	0.11881	0.41758	6.79E-04	4.72E-06	1.53E-05	4.86E-06	1.43E-05	7.1798E-04
519799.49	4258522.35	3386.87476	0.11282	0.33144	0.11677	0.32622	6.78E-04	4.62E-06	1.19E-05	4.78E-06	1.12E-05	7.1072E-04
519820.34	4258238.4	3385.43821	0.07456	0.37645	0.0747	0.36354	6.78E-04	3.05E-06	1.35E-05	3.06E-06	1.25E-05	7.1004E-04
519826.67	4258295.78	3381.11355	0.08421	0.40101	0.08514	0.38847	6.77E-04	3.45E-06	1.43E-05	3.49E-06	1.33E-05	7.1173E-04
519759.81	4258600.1	3376.9489	0.10699	0.26057	0.1113	0.25777	6.76E-04	4.38E-06	9.32E-06	4.56E-06	8.85E-06	7.0339E-04
519737.37	4258656.59	3372.5475	0.10444	0.22902	0.10805	0.22711	6.75E-04	4.28E-06	8.19E-06	4.42E-06	7.80E-06	7.0009E-04
519804.4	4258502.92	3369.51521	0.11413	0.3532	0.11826	0.3473	6.75E-04	4.67E-06	1.26E-05	4.84E-06	1.19E-05	7.0886E-04
519836.86	4258368.08	3367.5497	0.1002	0.43044	0.1027	0.41964	6.74E-04	4.10E-06	1.54E-05	4.20E-06	1.44E-05	7.1251E-04
519819.32	4258483.48	3363.12117	0.11539	0.37697	0.11957	0.37015	6.74E-04	4.72E-06	1.35E-05	4.90E-06	1.27E-05	7.0932E-04
519823.42	4258279.43	3362.48989	0.08088	0.39026	0.08152	0.37769	6.73E-04	3.31E-06	1.40E-05	3.34E-06	1.30E-05	7.0696E-04
519833.68	4258448.58	3360.26963	0.11518	0.41556	0.11889	0.40701	6.73E-04	4.72E-06	1.49E-05	4.87E-06	1.40E-05	7.1136E-04
519822.91	4258474.76	3348.99263	0.11534	0.38596	0.11942	0.37878	6.71E-04	4.72E-06	1.38E-05	4.89E-06	1.30E-05	7.0710E-04
519830.09	4258457.31	3344.92387	0.11521	0.40518	0.11904	0.39709	6.70E-04	4.72E-06	1.45E-05	4.87E-06	1.36E-05	7.0758E-04
519833.73	4258351.42	3344.58825	0.09582	0.42109	0.09797	0.41011	6.70E-04	3.92E-06	1.51E-05	4.01E-06	1.41E-05	7.0688E-04
519837.81	4258414.29	3343.93242	0.11011	0.43103	0.11336	0.42135	6.70E-04	4.51E-06	1.54E-05	4.64E-06	1.45E-05	7.0870E-04
519826.1	4258466.03	3342.9893	0.11531	0.39546	0.11927	0.38785	6.69E-04	4.72E-06	1.41E-05	4.88E-06	1.33E-05	7.0654E-04
519749.89	4258619.54	3342.37489	0.1052	0.24609	0.10919	0.24394	6.69E-04	4.31E-06	8.80E-06	4.47E-06	8.37E-06	6.9531E-04
519820.1	4258263.23	3338.1905	0.07779	0.37967	0.0782	0.36709	6.69E-04	3.19E-06	1.36E-05	3.20E-06	1.26E-05	7.0109E-04
519830.52	4258334.94	3331.32794	0.09178	0.41205	0.09358	0.40072	6.67E-04	3.76E-06	1.47E-05	3.83E-06	1.38E-05	7.0323E-04
519779.61	4258551.53	3330.14848	0.10829	0.29444	0.11205	0.29	6.67E-04	4.43E-06	1.05E-05	4.59E-06	9.96E-06	6.9642E-04
519769.69	4258570.97	3328.89253	0.1069	0.27757	0.11089	0.27363	6.67E-04	4.38E-06	9.93E-06

519779.53	4258532.14	3173.33058	0.10481	0.29567	0.10823	0.29124	6.36E-04	4.29E-06	1.06E-05	4.43E-06	1.00E-05	6.6480E-04
519828.83	4258411.85	3169.94453	0.1056	0.40579	0.10867	0.39698	6.35E-04	4.32E-06	1.45E-05	4.45E-06	1.36E-05	6.7174E-04
519749.77	4258590.45	3167.13969	0.10076	0.24899	0.10456	0.24602	6.34E-04	4.13E-06	8.91E-06	4.28E-06	8.45E-06	6.6002E-04
519812.84	4258280.88	3162.95795	0.07847	0.36325	0.07929	0.35176	6.33E-04	3.21E-06	1.30E-05	3.25E-06	1.21E-05	6.6495E-04
519826.47	4258369.05	3157.39343	0.09657	0.40087	0.09904	0.39125	6.32E-04	3.95E-06	1.43E-05	4.06E-06	1.34E-05	6.6809E-04
519789.44	4258512.7	3152.68636	0.10605	0.31375	0.10964	0.30889	6.31E-04	4.34E-06	1.12E-05	4.49E-06	1.06E-05	6.6203E-04
519729.97	4258639.02	3147.82864	0.09872	0.2226	0.10202	0.22077	6.30E-04	4.04E-06	7.96E-06	4.18E-06	7.58E-06	6.5416E-04
519809.51	4258264.7	3143.23386	0.0755	0.35301	0.07606	0.34153	6.29E-04	3.09E-06	1.26E-05	3.11E-06	1.17E-05	6.6003E-04
519823.32	4258352.44	3137.75841	0.09252	0.39243	0.09471	0.38256	6.28E-04	3.79E-06	1.40E-05	3.88E-06	1.31E-05	6.6322E-04
519739.85	4258609.88	3137.15306	0.09919	0.23539	0.10281	0.23319	6.28E-04	4.06E-06	8.42E-06	4.21E-06	8.01E-06	6.5295E-04
519799.36	4258493.26	3132.87642	0.10729	0.33341	0.11104	0.32798	6.27E-04	4.39E-06	1.19E-05	4.55E-06	1.13E-05	6.5953E-04
519820.1	4258336.02	3123.69275	0.08871	0.38369	0.0906	0.37355	6.26E-04	3.63E-06	1.37E-05	3.71E-06	1.28E-05	6.5945E-04
519759.65	4258561.31	3118.09684	0.10063	0.26437	0.10398	0.26054	6.24E-04	4.12E-06	9.46E-06	4.26E-06	8.94E-06	6.5122E-04
519825.14	4258420.82	3115.79065	0.1057	0.39532	0.10883	0.38703	6.24E-04	4.33E-06	1.41E-05	4.46E-06	1.33E-05	6.6019E-04
519769.57	4258541.88	3112.33325	0.1019	0.27971	0.10515	0.27556	6.23E-04	4.17E-06	1.00E-05	4.31E-06	9.46E-06	6.5123E-04
519825.89	4258394.74	3111.14301	0.10112	0.39892	0.10393	0.38998	6.23E-04	4.14E-06	1.43E-05	4.26E-06	1.34E-05	6.5910E-04
519749.73	4258580.75	3108.54853	0.09928	0.24991	0.10286	0.24664	6.23E-04	4.06E-06	8.94E-06	4.21E-06	8.47E-06	6.4821E-04
519723.65	4258647.79	3102.68024	0.09709	0.21574	0.1002	0.21398	6.21E-04	3.98E-06	7.72E-06	4.10E-06	7.35E-06	6.4449E-04
519729.93	4258629.32	3096.78887	0.09746	0.22321	0.10076	0.22135	6.20E-04	3.99E-06	7.98E-06	4.13E-06	7.60E-06	6.4387E-04
519779.49	4258522.44	3094.79419	0.10313	0.29623	0.10648	0.29177	6.20E-04	4.22E-06	1.06E-05	4.36E-06	1.00E-05	6.4897E-04
519739.81	4258600.19	3084.94291	0.09782	0.23626	0.10139	0.23377	6.18E-04	4.01E-06	8.45E-06	4.15E-06	8.03E-06	6.4243E-04
519815.62	4258322.63	3083.06096	0.08527	0.37205	0.08692	0.36181	6.17E-04	3.49E-06	1.33E-05	3.56E-06	1.24E-05	6.5020E-04
519812.45	4258306.09	3081.34338	0.08196	0.3642	0.08331	0.35355	6.17E-04	3.36E-06	1.30E-05	3.41E-06	1.21E-05	6.4901E-04
519809.21	4258289.7	3074.06559	0.07881	0.35552	0.07987	0.34461	6.16E-04	3.23E-06	1.27E-05	3.27E-06	1.18E-05	6.4667E-04
519822.85	4258377.86	3073.02504	0.09686	0.39122	0.09943	0.38219	6.15E-04	3.97E-06	1.40E-05	4.07E-06	1.31E-05	6.5057E-04
519789.4	4258503	3071.90012	0.10435	0.31423	0.10789	0.30933	6.15E-04	4.27E-06	1.12E-05	4.42E-06	1.06E-05	6.4574E-04
519821.45	4258429.78	3071.88207	0.10568	0.38505	0.10886	0.37729	6.15E-04	4.33E-06	1.38E-05	4.46E-06	1.30E-05	6.5070E-04
519805.91	4258273.47	3058.4204	0.0758	0.34539	0.07657	0.33446	6.12E-04	3.10E-06	1.24E-05	3.14E-06	1.15E-05	6.4257E-04
519799.32	4258483.56	3054.96761	0.10555	0.33383	0.10921	0.32829	6.12E-04	4.32E-06	1.19E-05	4.47E-06	1.13E-05	6.4380E-04
519759.61	4258551.61	3050.95794	0.09908	0.26497	0.10221	0.26108	6.11E-04	4.06E-06	9.48E-06	4.18E-06	8.96E-06	6.3768E-04
519819.72	4258361.19	3049.52275	0.09284	0.38324	0.09516	0.374	6.11E-04	3.80E-06	1.37E-05	3.90E-06	1.28E-05	6.4495E-04
519749.69	4258571.05	3049.34233	0.09781	0.25068	0.10112	0.24719	6.11E-04	4.00E-06	8.97E-06	4.14E-06	8.49E-06	6.3627E-04
519729.89	4258619.62	3048.95626	0.09622	0.22384	0.09951	0.22191	6.11E-04	3.94E-06	8.01E-06	4.07E-06	7.62E-06	6.3423E-04
519822.23	4258403.63	3045.84909	0.1013	0.38899	0.10418	0.38057	6.10E-04	4.15E-06	1.39E-05	4.27E-06	1.31E-05	6.4536E-04
519817.76	4258438.75	3041.44003	0.10562	0.3753	0.10888	0.36796	6.09E-04	4.32E-06	1.34E-05	4.46E-06	1.26E-05	6.4393E-04
519769.53	4258532.18	3038.49978	0.10031	0.28018	0.10344	0.27602	6.09E-04	4.11E-06	1.00E-05	4.24E-06	9.48E-06	6.3634E-04
519803.01	4258474.6	3038.30511	0.10561	0.34146	0.10922	0.33562	6.08E-04	4.32E-06	1.22E-05	4.47E-06	1.15E-05	6.4099E-04
519739.77	4258590.49	3032.6857	0.09645	0.23711	0.09989	0.23432	6.07E-04	3.95E-06	8.48E-06	4.09E-06	8.04E-06	6.3190E-04
519816.52	4258344.71	3029.49519	0.08899	0.37435	0.09103	0.36494	6.07E-04	3.64E-06	1.34E-05	3.73E-06	1.25E-05	6.3999E-04
519814.08	4258447.71	3024.75443	0.10559	0.3662	0.10894	0.35925	6.06E-04	4.32E-06	1.31E-05	4.46E-06	1.23E-05	6.3996E-04
519806.7	4258465.64	3024.00925	0.10558	0.3493	0.10912	0.34113	6.06E-04	4.32E-06	1.25E-05	4.47E-06	1.18E-05	6.3866E-04
519810.39	4258456.67	3018.51572	0.10555	0.35747	0.10899	0.35091	6.04E-04	4.32E-06	1.28E-05	4.46E-06	1.20E-05	6.3812E-04
519779.44	4258512.74	3016.54848	0.10151	0.29669	0.1048	0.29219	6.04E-04	4.16E-06	1.06E-05	4.29E-06	1.00E-05	6.3320E-04
519719.97	4258639.06	3007.03079	0.0945	0.21269	0.09748	0.21097	6.02E-04	3.87E-06	7.61E-06	3.99E-06	7.24E-06	6.2491E-04
519729.85	4258609.93	3001.78637	0.09495	0.22455	0.09825	0.22244	6.01E-04	3.89E-06	8.03E-06	4.02E-06	7.64E-06	6.2473E-04
519819.22	4258386.68	2997.44564	0.09709	0.38198	0.09974	0.37341	6.00E-04	3.98E-06	1.37E-05	4.08E-06	1.28E-05	6.3482E-04
519789.36	4258493.1	2993.61313	0.1027	0.31466	0.10619	0.30967	6.00E-04	4.20E-06	1.13E-05	4.35E-06	1.06E-05	6.2995E-04
519818.57	4258412.51	2991.91503	0.10142	0.37941	0.10437	0.37145	5.99E-04	4.15E-06	1.36E-05	4.27E-06	1.28E-05	6.3392E-04
519808.79	4258314.97	2988.9146	0.08227	0.35568	0.08385	0.34573	5.99E-04	3.37E-06	1.27E-05	3.43E-06	1.19E-05	6.2996E-04
519749.65	4258561.35	2988.21505	0.09636	0.25132	0.0994	0.24769	5.98E-04	3.95E-06	8.99E-06	4.07E-06	8.50E-06	6.2394E-04
519811.94	4258331.59	2987.52236	0.08557	0.36302	0.08741	0.35352	5.98E-04	3.50E-06	1.30E-05	3.58E-06	1.21E-05	6.3050E-04
519805.58	4258298.53	2984.91734	0.07913	0.34756	0.08042	0.3373	5.98E-04	3.24E-06	1.24E-05	3.29E-06	1.16E-05	6.2831E-04
519759.57	4258541.92	2982.55918	0.09757	0.26544	0.10053	0.26153	5.97E-04	3.99E-06	9.49E-06	4.12E-06	8.98E-06	6.2388E-04
519739.73	4258580.79	2978.40776	0.09507	0.23796	0.09832	0.23485	5.96E-04	3.89E-06	8.51E-06	4.03E-06	8.06E-06	6.2096E-04
519802.3	4258282.24	2973.82093	0.07611	0.33807	0.0771	0.32771	5.96E-04	3.12E-06	1.31E-05	3.16E-06	1.13E-05	6.2516E-04
519816.12	4258369.94	2966.7726	0.0931	0.37415	0.09551	0.36548	5.94E-04	3.81E-06	1.34E-05	3.91E-06	1.25E-05	6.2779E-04
519769.49	4258522.48	2964.2809	0.09876	0.28059	0.10182	0.27642	5.94E-04	4.04E-06	1.00E-05	4.17E-06	9.49E-06	6.2138E-04
519719.93	4258629.36	2961.32865	0.09332	0.21322	0.09632	0.21146	5.93E-04	3.82E-06	7.63E-06	3.94E-06	7.26E-06	6.1570E-04
519729.81	4258600.23	2954.48878	0.09368	0.22532	0.09693	0.22294	5.92E-04	3.84E-06	8.06E-06	3.97E-06	7.65E-06	6.1519E-04
519812.95	4258353.4	2948.39118	0.08935	0.36643	0.09154	0.35753	5.90E-04	3.66E-06	1.31E-05	3.75E-06	1.23E-05	6.2324E-04
519814.92	4258421.4	2945.97962	0.10144	0.36994	0.10443	0.36246	5.90E-04	4.15E-06	1.32E-05	4.28E-06	1.24E-05	6.2408E-04
519779.4	4258503.04	2939.60021	0.09994	0.29705	0.10319	0.29251	5.89E-04	4.09E-06	1.06E-05	4.23E-06	1.00E-05	6.1768E-04
519815.59	4258395.49	2931.53107	0.09727	0.37282	0.09998	0.36473	5.87E-04	3.98E-06	1.33E-05	4.09E-06	1.25E-05	6.2101E-04
519749.61	4258551.66	2925.80423	0.09493	0.25181	0.09775	0.24812	5.86E-04	3.89E-06	9.01E-06	4.00E-06	8.52E-06	6.1135E-04
519739.69	4258571.09	2923.81192	0.09371	0.23862	0.0967	0.2353	5.86E-04	3.84E-06	8.54E-06	3.96E-06	8.08E-06	6.0994E-04
519789.32	4258483.61	2918.87987	0.10111	0.31498	0.10452	0.30989	5.85E-04	4.14E-06	1.13E-05	4.28E-06	1.06E-05	6.1487E-04
519719.89	4258619.66	2917.02442	0.09215	0.21379	0.09517	0.21192	5.84E-04	3.77E-06	7.65E-06	3.90E-06	7.28E-06	6.0695E-04
519759.53	4258532.22	2913.08694	0.0961	0.26583	0.09895	0.2619	5.83E-04	3.93E-06	9.51E-06	4.05E-06	8.99E-06	6.0987E-04
519811.26	4258430.29	2910.74808	0.10137	0.36078	0.10442	0.35373	5.83E-04	4.15E-06	1.29E-05	4.28E-06	1.21E-05	6.1639E-04
519729.77	4258590.53	2906.49996	0.0924	0.22609	0.09554	0.2234	5.82E-04	3.78E-06	8.09E-06	3.91E-06	7.67E-06	6.0552E-04
519792.98	4258474.72	2902.46025	0.10121	0.32189	0.10462	0.31655	5.81E-04	4.14E-06	1.15E-05	4.28E-06	1.09E-05	6.1207E-04
519808.26	4258340.54	2900.87464	0.0859	0.35497	0.08791	0.34605	5.81E-04	3.52E-06	1.27E-05	3.60E-06	1.19E-05	6.1263E-04
519801.95	4258307.35	2896.45383	0.07942	0.33963	0.08092	0.33004	5.80E-04	3.25E-06	1.21E-05	3.31E-06	1.13E-05	6.1010E-04
519805.14	4258323.86	2895.43434	0.08253	0.34707	0.08429	0.33786	5.80E-04	3.38E-06	1.24E-05	3.45E-06	1.16E-05	6.1069E-04
519798.69	4258291	2893.4263	0.07646	0.33175	0.0777	0.32187	5.79E-04	3.13E-06	1.19E-05	3.18E-06	1.11E-05	6.0868E-04
519812.52	4258378.69	2891.97589	0.09332	0.36556	0.09581	0.35737	5.79E-04	3.82E-06	1.31E-05	3.92E-06	1.23E-05	6.1225E-04
519769.44	4258512.78	2890.08566	0.09726	0.28092	0.10027	0.27672	5.79E-04	3.98E-06	1.00E-05	4.11E-06	9.50E-06	6.0641E-04
519807.6	4258439.17	2889.96733	0.10136	0.35234	0.10448	0.34565	5.79E-04	4.15E-06	1.26E-05	4.28E-06	1.19E-05	6.1165E-04
519796.64	4258465.83	2886.48232	0.10124	0.32901	0.1046	0.32337	5.78E-04	4.15E-06	1.18E-05	4.28E-06	1.11E-05	6.0936E-04
519803.95	4258448.06	2879.66366	0.10133	0.34425	0.10454	0.33792	5.77E-04	4.15E-06	1.23E-05	4.28E-06	1.16E-05	6.0904E-04
519800.29	4258456.95	2879.60006	0.10131	0.33653	0.1046	0.33055	5.77E-04	4.15E-06	1.20E-05	4.28E-06	1.13E-05	6.0850E-04
519811.97	4258404.31	2875.9916	0.0974	0.36403	0.10017	0.35637	5.76E-04	3.99E-06	1.30E-05	4.10E-06	1.22E-05	6.0930E-04
519719.85	4258609.97	2875.95867	0.09098	0.2144	0.09399	0.21237	5.76E-04	3.73E-06	7.67E-06	3.85E-06	7.29E-06	5.9848E-04
519739.65	4258561.4	2867.32588	0.09236	0.23915	0.09511	0.2357	5.74E-04	3.78E-06	8.55E-06	3.89E-06	8.09E-06	5.9854E-04
519779.36	4258493.35	2864.76398	0.09842	0.29738	0.10163	0.29276	5.74E-04	4.03E-06	1.06E-05	4.16E-06	1.01E-05	6.0259E-04
519809.37	4258362.09	2864.31754	0.08955	0.35764	0.09181	0.34934	5.74E-04	3.67E-06	1.28E-05	3.76E-06	1.20E-05	6.0583E-04
519749.57	4258541.96	2861.71573	0.09352	0.25219	0.0962	0.24848	5.73E-04	3.83E-06	9.02E-06	3.94E-06	8.53E-06	5.9842E-04
519729.73	4258580.83	2857.42892	0.09112	0.22679	0.09407	0.22382	5.72E-04	3.73E-06	8.11E-06	3.85E-06	7.68E-06	5.9562E-04
519759.49	4258522.52	2842.90424	0.09467	0.26611	0.09745	0.26218	5.69E-04	3.88E-06	9.52E-06	3.99E-06	9.00E-06	5.9572E-04
519719.81	4258600.27	2832.99718	0.0898	0.21508	0.09277	0.21278	5.67E-04	3.68E-06	7.69E-06	3.80E-06	7.30E-06	5.8982E-04
519808.34	4258413.13	2830.53639	0.09745	0.35539	0.10028	0.34814	5.67E-04	3.99E-06	1.27E-05	4.11E-06	1.20E-05	5.9961E-04
519808.92	4258387.44	2825.80695	0.09349	0.35732	0.09605	0.34953	5.66E-04	3.83E-06	1.28E-05	3.93E-06	1.20E-05	5.9845E-04
519804.57	4258349.49	2817.66144	0.08617	0.34695	0.0883	0.33858	5.64E-04	3.53E-06	1.24E-05	3.62E-06	1.16E-05	5.9545E-04
519769.4	4258503.09	2816.88657	0.09581	0.2812	0.09878	0.27696	5.64E-04	3.92E-06	1.01E-05	4.04E-06	9.51E-06	5.9165E-04
519795.08	4258299.77	2809.28941	0.07674	0.32457	0.07818	0.31531	5.63E-04	3.14E-06	1.16E-05	3.20E-06	1.08E-05	5.9138E-04
519798.31	4258316.18	2809.10817	0.07968	0.33188	0.08136	0.32303	5.63E-04	3.26E-06	1.19E-05	3.33E-06	1.11E-05	5.9212E-04
519739.61	4258551.7	2808.96413	0.09103	0.23955	0.09358	0.23604	5.63E-04	3.73E-06	8.57E-06	3.83E-06	8.10E-06	5.8676E-04
519801.48	4258332.75	2808.41602	0.08279	0.33915	0.08469	0.33057	5.62E-04	3.39E-06	1.21E-05	3.47E-06	1.13E-05	5.9276E-04
519729.69	4258571.14	2806.97181	0.08986	0.22736	0.09257	0.22419	5.62E-04	3.68E-06	8.13E-06	3.79E-06	7.70E-06	5.8543E-04
519749.53	4258532.26	2796.19653	0.09216	0.25249	0.09473	0.24877	5.60E-04	3.77E-06	9.03E-06	3.88E-06	8.54E-06	5.8520E-04
519805.8	4258370.78	2792.89069	0.08978	0.34987	0.09212	0.34199	5.59E-04	3.68E-06	1.25E-05	3.77E-06	1.17E-05	5.9102E-04
519779.32	4258483.65	2792.8555	0.09694	0.2762	0.10011	0.2929	5.59E-04	3.97E-06	1.06E-05	4.10E-06	1.01E-05	5.8808E-04
519804.71	4258421.94	2792.19074	0.09742	0.34691	0.10029	0.34009	5.59E-04	3.99E-06	1.24E-05	4.11E-06	1.17E-05	5.9135E-04
519719.77	4258590.57	2789.38747	0.08861	0.21575	0.09147	0.21316	5.59E-04	3.63E-06	7.72E-06	3.75E-06	7.32E-06	5.8102E-04
519782.95	4258474.83	2775.18149	0.09708	0.30388	0.10026	0.29895	5.56E-04	3.97E-06	1.09E-05	4.11E-06	1.03E-05	5.8498E-04
519759.44	4258512.82	2772.40317	0.09328	0.26633	0.09601	0.26239	5.55E-04	3.82E-06	9.53E-06	3.93E-06	9.01E-06	5.8150E-04
519805.32	4258396.19	2768.95893	0.09362	0.34922	0.09623	0.34182	5.55E-04	3.83E-06	1.25E-05	3.94E-06	1.17E-05	5.8652E-04
519801.09	4258430.76	2767.76415	0.09741	0.33009	0.10035	0.3326	5.54E-04	3.99E-06	1.21E-05	4.11E-06	1.14E-05	5.8593E-04
519786.58	4258466.02	2759.76419	0.09716	0.31037	0.10033	0.30516	5.53E-04	3.98E-06	1.11E-05	4.11E-06	1.05E-05	5.8234E-04
519729.65	4258561.44	2754.63201	0.08861	0.22779	0.09108	0.2245	5.52E-04	3.63E-06	8.15E-06	3.73E-06	7.71E-06	5.7486E-04
519797.46	4258439.57	2751.9701	0.09735	0.33142	0.10035	0.32528	5.51E-04	3.99E-06	1.19E-05	4.11E-06	1.12E-05	5.8224E-04
519739.57	4258542	2748.93208	0.08973	0.23984	0.09213	0.23631	5.51E-04	3.67E-06	8.58E-06	3.77E-06	8.11E-06	5.7465E-04
519790.2	4258457.2	2748.34177	0.0972	0.31702	0.10032	0.31153	5.50E-04	3.98E-06	1.13E-05	4.11E-06	1.07E-05	5.8051E-04
519769.36	4258493.39	2745.20507	0.09439	0.28143	0.09735	0.27712	5.50E-04	3.86E-06	1.01E-05	3.99E-06	9.51E-06	5.7720E-04
519793.83	4258448.39	2744.8329	0.09725	0.32397	0.10031	0.31816	5.50E-04	3.98E-06	1.16E-05	4.11E-06	1.09E-05	5.8029E-04
519719.73	4258580.87	2743.75184	0.08741	0.21637	0.0901	0.2135	5.49E-04	3.58E-06	7.74E-06	3.69E-06	7.33E-06	5.7181E-04
519800.89	4258358.44	2738.76764	0.08639	0.33904	0.08859	0.33117	5.48E-04	3.54E-06	1.21E-05	3.63E-06	1.14E-05	5.7914E-04
519749.49	4258522.56	2729.76505	0.09083	0.25268	0.09334	0.24896	5.47E-04	3.72E-06	9.04E-06	3.82E-06	8.55E-06	5.7180E-04
519797.82	4258341.63	2728.42498	0.08306	0.33186	0.08507	0.32378	5.46E-04	3.40E-06	1.19E-05	3.48E-06	1.11E-05	5.7627E-04
519802.22	4258379.46	2727.82757	0.08996	0.34239	0.09237	0.33488	5.46E-04	3.68E-06	1.22E-05	3.78E-06	1.15E-05	5.7749E-04
519791.47	4258308.54	2726.87924	0.07699	0.31763	0.07861	0.30897	5.46E-04	3.15E-06	1.14E-05	3.22E-06	1.06E-05	5.7443E-04
519794.68	4258325	2724.28544	0.07991	0.32449	0.08173	0.31617	5.46E-04	3.27E-06	1.16E-05	3.35E-06	1.09E-05	5.7465E-04
519801.72	4258404.94	2721.73848	0.09368	0.34127	0.09635	0.33425	5.45E-04	3.84E-06	1.22E-05	3.94E-06	1.15E-05	5.7653E-04
519759.4	4258503.13	2703.59159	0.09192	0.26656	0.09464	0.26256	5.41E-04	3.76E-06	9.53E-06	3.87E-06	9.01E-06	5.6742E-04
519729.61	4258551.74	2700.05906	0.08737	0.2281	0.08965	0.22476	5.41E-04	3.58E-06	8.16E-06	3.67E-06	7.72E-06	5.6385E-04
519719.69	4258571.18	2696.82986	0.08623	0.21687	0.0887	0.2138	5.40E-04	3.53E-06	7.76E-06	3.63E-06	7.34E-06	5.6234E-04
519739.53	4258532.3	2687.08403	0.08845	0.24006	0.09077	0.23652	5.38E-04	3.62E-06	8.59E-06	3.72E-06	8.12E-06	5.6217E-04
519798.12	4258413.69	2682.66609	0.09369	0.33349	0.09639	0.32684	5.37E-04	3.84E-06	1.19E-05	3.95E-06	1.12E-05	5.6817E-04
519769.32	4258483.69	2676.02857	0.09302	0.28159	0.09595	0.27719	5.36E-04	3.81E-06	1.01E-05	3.93E-06	9.52E-06	5.6324E-04
519798.65	4258388.15	2670.26624	0.09007	0.33493	0.09254	0.32778	5.35E-04	3.69E-06	1.20E-05	3.79E-06	1.13E-05	5.6547E-04
519797.21	4258367.39	2667.46098	0.08657	0.33157	0.08884	0.32413	5.34E-04	3.54E-06	1.19E-05	3.64E-06	1.11E-05	5.6436E-04
519749.44	4258512.87	2662.79248	0.08953	0.25281	0.09201	0.24907	5.33E-04	3.67E-06	9.04E-06	3.77E-06	8.55E-06	5.5829E-04
519772.92	4258474.94	2657.33289	0.09317	0.28722	0.09613	0.28265	5.32E-04	3.81E-06	1.03E-05	3.94E-06	9.70E-06	5.5989E-04
519794.17	4258350.52	2653.82894	0.08329	0.32487	0.08539	0.31723	5.31E-04	3.41E-06	1.16E-05	3.50E-06	1.09E-05	5.6088E-04
519794.52	4258422.44	2652.1601	0.09363	0.32594	0.09637	0.31966	5.31E-04	3.83E-06	1.17E-05	3.95E-06	1.10E-05	5.6154E-04
519719.65	4258561.48	2648.29639	0.08507	0.21721	0.08731	0.21404	5.30E-04	3.48E-06	7.77E-06	3.57E-06	7.35E-06	5.5253E-04
519787.87	4258317.31	2647.03964	0.07723	0.31086	0.07898	0.30276	5.30E-04	3.16E-06	1.18E-05	3.23E-06	1.04E-05	5.5801E-04
519791.05	4258333.83	2645.42798	0.08014	0.31756	0.08206	0.30976	5.30E-04	3.28E-06	1.14E-05	3.36E-06	1.06E-05	5.5842E-04
519729.57	4258542.04	2643.51711	0.08616	0.22831	0.0883	0.22495	5.29E-04	3.53E-06	8.17E-06	3.62E-06	7.72E-06	5.5243E-04
519776.52	4258466.19	2638.99566	0.09323	0.29295	0.09619	0.28815	5.28E-04	3.82E-06	1.05E-05	3.94E-06	9.89E-06	5.5562E-04
519759.36	4258493.43	2633.91542	0.09061	0.26674	0.09332	0.26267	5.27E-04	3.71E-06	9.54E-06	3.82E-06	9.02E-06	5.5357E-04
519790.92	4258431.19	2632.59872	0.09356	0.3188	0.09636	0.31283	5.27E-04	3.83E-06	1.14E-05	3.95E-06	1.07E-05	5.5713E-04
519780.12	4258457.44	2627.22227	0.09334	0.29909	0.09627	0.29402	5.26E-04	3.82E-06	1.07E-05	3.94E-06	1.01E-05	5.5469E-04
519739.49	4258522.61	2624.15856	0.08722	0.2402	0.08948	0.23664	5.26E-04	3.57E-06	8.59E-06	3.66E-06	8.12E-06	5.4947E-04
519787.32	4258439.94	2623.05705	0.0935	0.31202	0.09636	0.30635	5.25E-04	3.83E-06	1.12E-05	3.95E-06	1.05E-05	5.5475E-04
519783.72	4258448.69	2622.52095	0.09345	0.30554	0.09636	0.30016	5.25E-04	3.83E-06	1.09E-05	3.95E-06	1.03E-05	5.5420E-04
519795.07	4258396.84	2621.38852	0.09014	0.32763	0.09266	0.32083	5.25E-04	3.69E-06	1.17E-05	3.79E-06	1.10E-05	5.5519E-04
519793.52	4258376.35	2603.58669	0.08671	0.32449	0.08904	0.31737	5.21E-04	3.55E-06	1.16E-05

519771.42	4258430.06	2399.8724	0.0866	0.28472	0.08911	0.2795	4.81E-04	3.55E-06	1.02E-05	3.65E-06	9.60E-06	5.0758E-04
519764.06	4258447.97	2399.81748	0.08638	0.27328	0.08894	0.26859	4.81E-04	3.54E-06	9.77E-06	3.64E-06	9.22E-06	5.0677E-04
519767.74	4258439.01	2395.58991	0.08648	0.27884	0.08901	0.27388	4.80E-04	3.54E-06	9.97E-06	3.64E-06	9.40E-06	5.0631E-04
519776.53	4258369.13	2382.50395	0.08067	0.292	0.08278	0.28569	4.77E-04	3.30E-06	1.04E-05	3.39E-06	9.81E-06	5.0407E-04
519719.45	4258512.99	2374.25395	0.07957	0.21762	0.08134	0.21436	4.75E-04	3.26E-06	7.78E-06	3.33E-06	7.36E-06	4.9721E-04
519775.89	4258394.95	2372.55906	0.08365	0.29165	0.08593	0.28575	4.75E-04	3.42E-06	1.04E-05	3.52E-06	9.81E-06	5.0232E-04
519739.32	4258483.82	2371.17797	0.08259	0.2403	0.08484	0.23657	4.75E-04	3.38E-06	8.60E-06	3.47E-06	8.12E-06	4.9843E-04
519773.44	4258352.38	2368.06425	0.07786	0.28625	0.07985	0.27979	4.74E-04	3.19E-06	1.02E-05	3.27E-06	9.61E-06	5.0054E-04
519742.98	4258474.93	2350.48331	0.08277	0.24486	0.0851	0.24098	4.71E-04	3.39E-06	8.76E-06	3.48E-06	8.27E-06	4.9462E-04
519729.36	4258493.56	2343.09279	0.08055	0.22837	0.08253	0.22493	4.69E-04	3.30E-06	8.17E-06	3.38E-06	7.72E-06	4.9180E-04
519772.23	4258403.84	2342.16965	0.08365	0.28582	0.08596	0.28018	4.69E-04	3.42E-06	1.02E-05	3.52E-06	9.62E-06	4.9584E-04
519772.9	4258377.96	2333.6632	0.08071	0.28615	0.08285	0.28012	4.67E-04	3.30E-06	1.02E-05	3.39E-06	9.62E-06	4.9390E-04
519746.64	4258466.04	2332.51522	0.08295	0.24945	0.08533	0.24542	4.67E-04	3.40E-06	8.92E-06	3.49E-06	8.43E-06	4.9136E-04
519768.57	4258412.72	2319.96276	0.08361	0.28014	0.08595	0.27474	4.65E-04	3.42E-06	1.00E-05	3.52E-06	9.43E-06	4.9100E-04
519750.29	4258457.16	2317.139	0.08311	0.25415	0.08552	0.24994	4.64E-04	3.40E-06	9.09E-06	3.50E-06	8.58E-06	4.8861E-04
519719.4	4258503.29	2316.07056	0.07855	0.21749	0.08032	0.21422	4.64E-04	3.22E-06	7.78E-06	3.29E-06	7.35E-06	4.8546E-04
519769.83	4258361.15	2309.39887	0.07789	0.2803	0.0799	0.27417	4.62E-04	3.19E-06	1.00E-05	3.27E-06	9.41E-06	4.8839E-04
519753.95	4258448.27	2305.51174	0.08323	0.2589	0.08564	0.25448	4.62E-04	3.41E-06	9.26E-06	3.51E-06	8.74E-06	4.8662E-04
519764.92	4258421.61	2303.79627	0.08351	0.27442	0.08586	0.2693	4.61E-04	3.42E-06	9.82E-06	3.52E-06	9.25E-06	4.8736E-04
519757.6	4258439.38	2297.40502	0.08332	0.26385	0.08572	0.2592	4.60E-04	3.41E-06	9.44E-06	3.51E-06	8.90E-06	4.8534E-04
519761.26	4258430.5	2296.18568	0.0834	0.26897	0.08577	0.26409	4.60E-04	3.41E-06	9.62E-06	3.51E-06	9.07E-06	4.8546E-04
519769.27	4258386.78	2293.43835	0.08074	0.28058	0.08291	0.2748	4.59E-04	3.31E-06	1.00E-05	3.39E-06	9.43E-06	4.8546E-04
519729.32	4258483.86	2283.80703	0.07952	0.22826	0.08152	0.22477	4.57E-04	3.26E-06	8.16E-06	3.34E-06	7.72E-06	4.7984E-04
519732.95	4258475.03	2262.28749	0.07969	0.23247	0.08178	0.22882	4.53E-04	3.26E-06	8.32E-06	3.35E-06	7.86E-06	4.7584E-04
519765.63	4258395.61	2260.89422	0.08074	0.27516	0.08292	0.26962	4.53E-04	3.31E-06	9.84E-06	3.40E-06	9.26E-06	4.7857E-04
519766.22	4258369.92	2260.71855	0.07795	0.27495	0.07998	0.26907	4.53E-04	3.19E-06	9.83E-06	3.27E-06	9.24E-06	4.7828E-04
519719.36	4258493.6	2258.25475	0.07756	0.21731	0.07933	0.21403	4.52E-04	3.18E-06	7.77E-06	3.25E-06	7.35E-06	4.7379E-04
519736.59	4258466.21	2243.60563	0.07987	0.23672	0.08203	0.23292	4.49E-04	3.27E-06	8.47E-06	3.36E-06	8.00E-06	4.7241E-04
519762	4258404.43	2234.38784	0.08068	0.26972	0.08287	0.26444	4.47E-04	3.30E-06	9.65E-06	3.39E-06	9.08E-06	4.7289E-04
519740.22	4258457.38	2227.21575	0.08004	0.24107	0.08226	0.23709	4.46E-04	3.28E-06	8.62E-06	3.37E-06	8.14E-06	4.6944E-04
519762.61	4258378.68	2220.06425	0.07799	0.26988	0.08004	0.26423	4.45E-04	3.19E-06	9.65E-06	3.28E-06	9.07E-06	4.6979E-04
519758.37	4258413.26	2214.66665	0.08057	0.26434	0.08277	0.25933	4.44E-04	3.30E-06	9.46E-06	3.39E-06	8.90E-06	4.6856E-04
519743.85	4258448.56	2214.54633	0.08019	0.24554	0.08244	0.24136	4.43E-04	3.28E-06	8.78E-06	3.38E-06	8.29E-06	4.6722E-04
519747.48	4258439.73	2206.4442	0.08033	0.25001	0.08258	0.24564	4.42E-04	3.29E-06	8.94E-06	3.38E-06	8.43E-06	4.6592E-04
519754.74	4258422.08	2205.28914	0.08051	0.25942	0.08272	0.25462	4.42E-04	3.30E-06	9.28E-06	3.39E-06	8.74E-06	4.6634E-04
519751.11	4258430.91	2203.2458	0.08043	0.25467	0.08267	0.25007	4.41E-04	3.29E-06	9.11E-06	3.38E-06	8.59E-06	4.6560E-04
519719.32	4258483.9	2201.16208	0.0766	0.21711	0.07838	0.2138	4.41E-04	3.14E-06	7.77E-06	3.21E-06	7.34E-06	4.6226E-04
519759.01	4258387.45	2184.93117	0.07798	0.26481	0.08005	0.25941	4.38E-04	3.19E-06	9.47E-06	3.28E-06	8.91E-06	4.6241E-04
519722.93	4258475.13	2180.00946	0.07678	0.2209	0.07865	0.21748	4.37E-04	3.14E-06	7.90E-06	3.22E-06	7.47E-06	4.5831E-04
519726.54	4258466.36	2160.15815	0.07695	0.22484	0.07891	0.22126	4.33E-04	3.15E-06	8.04E-06	3.23E-06	7.60E-06	4.5462E-04
519755.4	4258396.22	2156.92051	0.07794	0.25985	0.08001	0.25468	4.32E-04	3.19E-06	9.29E-06	3.28E-06	8.74E-06	4.5646E-04
519730.15	4258457.6	2143.41654	0.07712	0.22883	0.07915	0.22509	4.29E-04	3.16E-06	8.18E-06	3.24E-06	7.73E-06	4.5156E-04
519751.79	4258404.99	2136.22348	0.07787	0.25498	0.07995	0.25003	4.28E-04	3.19E-06	9.12E-06	3.27E-06	8.58E-06	4.5197E-04
519733.75	4258448.83	2129.43933	0.07729	0.23288	0.07935	0.22896	4.26E-04	3.16E-06	8.33E-06	3.25E-06	7.86E-06	4.4905E-04
519748.18	4258413.76	2122.55666	0.07778	0.25023	0.07986	0.2455	4.25E-04	3.18E-06	8.95E-06	3.27E-06	8.43E-06	4.4890E-04
519737.36	4258440.06	2119.6705	0.07744	0.23708	0.07953	0.23296	4.24E-04	3.17E-06	8.48E-06	3.26E-06	8.00E-06	4.4740E-04
519744.58	4258422.52	2115.61456	0.07769	0.24571	0.07977	0.24119	4.24E-04	3.18E-06	8.79E-06	3.27E-06	8.28E-06	4.4720E-04
519740.97	4258431.29	2114.83994	0.07757	0.24131	0.07966	0.237	4.24E-04	3.18E-06	8.63E-06	3.26E-06	8.14E-06	4.4673E-04
CONCUNIT ug/	m^3											
DEPUNIT g/m^	2											

OEHHA Cancer/BAAQMD Risk Methodology

Cancer Risk = DPM x CPF x ASF x DBR x ED x EF x TAH x AF/ AT

Cancer Risk = probability of an individual contracting cancer out of a population of 1 million people over a lifetime exposure duration of 30 years

DPM = long-term average concentration of diesel PM as predicted by the air dispersion model (ug/m3)

CPF = cancer potency factor for DPM (mg.ke-day)

ASF = age sensitivity factors that are dependent on the age of the exposed individual (unitless)

DBR = daily breathing rates that are dependent on the age of the exposed individual (liters/kg-day)

ED = exposure duration (years)

EF = exposure frequency (days/year)

TAH = time at home factors that are dependent on the age of the exposed individual (%)

AT = averaging time over the lifetime of an individual (days)

AF = adjustment factor for workers and students (unitless)

Cancer Risk Equation Values as recommended by the California Office of Environmental Health Hazards Assessment

Cancer Risk Calculations Using OEHHA/BAAQMD Cancer Risk Assumptions
City of Santa Rosa—Stonebridge Subdivision Project
Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant
UTM: 520285.95 4258692.95

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$
Exposure Frequency 350 days/year
Averaging Period 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Age	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
3rd Trimester	0.114827949	10	361	0.85	0.25	1.3
0-1	0.114827949	10	1090	0.85	1.00	16.0
1-<2	0.114827949	10	1090	0.85	1.00	16.0
2-<3	0.114827949	3	572	0.72	0.30	0.6
					Total	34.03

Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
3rd Trimester	0.030463338	10	361	0.85	0.25	0.4
0-1	0.030463338	10	1090	0.85	1.00	4.3
1-<2	0.030463338	10	1090	0.85	1.00	4.3
2-<3	0.030463338	3	572	0.72	0.30	0.2
					Total	9.03

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: 520285.95 4258692.95

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$
Exposure Frequency 350 days/year
Averaging Period 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	0.114827949	3	572	1	1.00	3.0
2	0.114827949	3	572	1	1.00	3.0
3	0.114827949	3	572	1	0.55	1.6
					Total	7.57

Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	0.030463338	3	572	1	1.00	0.8
2	0.030463338	3	572	1	1.00	0.8
3	0.030463338	3	572	1	0.55	0.4
					Total	2.01

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult
UTM: 520285.95 4258692.95

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$
Exposure Frequency 350 days/year
Averaging Period 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	0.114827949	1	261	0.73	1.00	0.3
2	0.114827949	1	261	0.73	1.00	0.3
3	0.114827949	1	261	0.73	0.55	0.2
					Total	0.84

Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	0.030463338	1	261	0.73	1.00	0.1
2	0.030463338	1	261	0.73	1.00	0.1
3	0.030463338	1	261	0.73	0.55	0.0
					Total	0.223

City of Santa Rosa—Stonebridge Subdivision Project

UTM: 520285.95 4258692.95

Estimates of Chronic Non-Cancer Hazard Index (CNCHI)

Unmitigated

Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	Average DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
520285.95	4258692.95	0.1148	0.1148	0.02297

Unmitigated

Annual PM2.5 Total (Exhaust + Fugitive Dust)

X (m)	Y (m)	Average PM2.5 Total (ug/m3)	Max PM2.5 (ug/m3)
520285.95	4258692.95	0.1327	0.1327

Mitigated

Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	Average DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
520285.95	4258692.95	0.0305	0.0305	0.00609

Mitigated

Annual PM2.5 Total (Exhaust + Fugitive Dust)

X (m)	Y (m)	Average PM2.5 Total (ug/m3)	Max PM2.5 (ug/m3)
520285.95	4258692.95	0.0305	0.0305

City of Santa Rosa—Stonebridge Subdivision Project

Project Site

Construction Annual DPM Emissions (PM2.5 Exhaust) **Mitigated Concentrations**

Annual Average Onsite Total PM2.5 Emission Rate (grams/m2/sec):	1.90E-08
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 1 (grams/sec):	2.35E-06
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 2 (grams/sec):	2.05E-06
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 3 (grams/sec):	2.35E-06
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 4 (grams/sec):	1.97E-06

Mitigated DPM Concentrations		
Maximum DPM (ug/m3)	**MIR UTM X**	**Y**
1.2589E-02	520285.95	4258692.95

X	Y	Onsite Project Site Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 1 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 2 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 3 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 4 Unit Emissions VALUES AVERAGED AVERAGE CONC	Onsite Project Site Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 4 Annual DPM Exhaust w/Actual Emissions (ug/m3)	**Total DPM (ug/m3)**
520285.95	4258692.95	662010.4627	0.70541	0.47948	0.67924	0.51632	1.26E-02	1.66E-06	9.83E-07	1.59E-06	1.02E-06	1.2589E-02
520276.05	4258692.97	661730.7007	0.7558	0.50671	0.7262	0.54656	1.26E-02	1.77E-06	1.04E-06	1.70E-06	1.08E-06	1.2584E-02
520266.15	4258692.98	661237.0252	0.81334	0.53678	0.77956	0.57991	1.26E-02	1.91E-06	1.10E-06	1.83E-06	1.14E-06	1.2575E-02
520295.85	4258692.94	660914.3292	0.66038	0.45448	0.63708	0.4886	1.26E-02	1.55E-06	9.32E-07	1.50E-06	9.62E-07	1.2568E-02
520256.24	4258693	658495.184	0.87811	0.56962	0.83922	0.61631	1.25E-02	2.06E-06	1.17E-06	1.97E-06	1.21E-06	1.2523E-02
520305.75	4258692.92	656765.0041	0.61928	0.43121	0.59835	0.46286	1.25E-02	1.45E-06	8.84E-07	1.40E-06	9.11E-07	1.2489E-02
520246.34	4258693.02	654632.1663	0.95238	0.60592	0.90721	0.65636	1.24E-02	2.24E-06	1.24E-06	2.13E-06	1.29E-06	1.2450E-02
520315.65	4258692.9	650173.4768	0.58193	0.40963	0.56299	0.43904	1.24E-02	1.37E-06	8.40E-07	1.32E-06	8.64E-07	1.2363E-02
520236.44	4258693.03	647446.2042	1.03669	0.64581	0.9838	0.70018	1.23E-02	2.43E-06	1.32E-06	2.31E-06	1.38E-06	1.2314E-02
520325.55	4258692.89	642068.381	0.54847	0.38984	0.53118	0.41722	1.22E-02	1.29E-06	8.00E-07	1.25E-06	8.21E-07	1.2209E-02
520226.54	4258693.05	639146.7769	1.1371	0.69147	1.07491	0.74946	1.21E-02	2.67E-06	1.42E-06	2.52E-06	1.48E-06	1.2157E-02
520285.96	4258702.95	630959.6637	0.71756	0.46523	0.69024	0.50115	1.20E-02	1.68E-06	9.54E-07	1.62E-06	9.87E-07	1.1999E-02
520276.06	4258702.97	630957.2012	0.7694	0.49114	0.73836	0.52988	1.20E-02	1.81E-06	1.01E-06	1.73E-06	1.04E-06	1.1999E-02
520335.45	4258692.87	630938.432	0.51801	0.37153	0.50211	0.39707	1.20E-02	1.22E-06	7.62E-07	1.18E-06	7.82E-07	1.1997E-02
520266.16	4258702.98	630936.8694	0.82794	0.51957	0.79239	0.56129	1.20E-02	1.94E-06	1.07E-06	1.86E-06	1.10E-06	1.1982E-02
520295.86	4258702.94	629016.2959	0.6711	0.44135	0.64686	0.47468	1.20E-02	1.58E-06	9.05E-07	1.52E-06	9.34E-07	1.1961E-02
520256.26	4258703	627344.6224	0.89421	0.55071	0.85319	0.59556	1.19E-02	2.10E-06	1.13E-06	2.00E-06	1.17E-06	1.1931E-02
520216.64	4258693.07	626935.9391	1.2529	0.74154	1.17902	0.80314	1.19E-02	2.94E-06	1.52E-06	2.77E-06	1.58E-06	1.1926E-02
520305.77	4258702.92	624933.273	0.62914	0.41927	0.60745	0.45023	1.19E-02	1.48E-06	8.60E-07	1.43E-06	8.86E-07	1.1884E-02
520246.36	4258703.02	622952.3412	0.96996	0.58507	0.92233	0.63309	1.18E-02	2.28E-06	1.20E-06	2.17E-06	1.25E-06	1.1848E-02
520315.67	4258702.9	618385.3726	0.59112	0.39882	0.57155	0.42761	1.18E-02	1.39E-06	8.18E-07	1.34E-06	8.42E-07	1.1759E-02
520236.46	4258703.03	616231.652	1.05663	0.62291	1.00088	0.67408	1.17E-02	2.48E-06	1.28E-06	2.35E-06	1.33E-06	1.1721E-02
520345.35	4258692.85	615114.5187	0.48991	0.35441	0.47519	0.37827	1.17E-02	1.15E-06	7.27E-07	1.12E-06	7.45E-07	1.1696E-02
520206.74	4258693.08	611044.6617	1.39025	0.79675	1.30102	0.86205	1.16E-02	3.26E-06	1.63E-06	3.05E-06	1.70E-06	1.1625E-02
520325.57	4258692.89	610001.1955	0.5568	0.37996	0.53899	0.40674	1.16E-02	1.31E-06	7.79E-07	1.27E-06	8.01E-07	1.1599E-02
520226.56	4258703.05	607387.9481	1.15843	0.6654	1.09288	0.71947	1.15E-02	2.72E-06	1.36E-06	2.57E-06	1.42E-06	1.1553E-02
520335.47	4258702.87	599219.393	0.52565	0.36253	0.50934	0.3875	1.14E-02	1.23E-06	7.44E-07	1.20E-06	7.63E-07	1.1394E-02
520216.66	4258703.07	595412.1692	1.27692	0.71237	1.19948	0.76912	1.13E-02	3.00E-06	1.46E-06	2.82E-06	1.51E-06	1.1326E-02
520355.25	4258692.84	594099.7587	0.46433	0.33858	0.45059	0.36092	1.13E-02	1.09E-06	6.94E-07	1.06E-06	7.10E-07	1.1296E-02
520196.84	4258693.1	589909.9555	1.55429	0.85851	1.44609	0.92722	1.12E-02	3.65E-06	1.76E-06	3.39E-06	1.83E-06	1.1224E-02
520345.37	4258702.85	581595.2902	0.49683	0.34617	0.48175	0.36946	1.11E-02	1.17E-06	7.10E-07	1.13E-06	7.27E-07	1.1089E-02
520206.76	4258703.08	579527.2475	1.4173	0.76346	1.31431	0.82309	1.10E-02	3.33E-06	1.57E-06	3.11E-06	1.62E-06	1.1025E-02
520157.12	4258646.05	572750.5551	2.41391	1.62136	2.20438	1.77451	1.09E-02	5.67E-06	3.33E-06	5.18E-06	3.49E-06	1.0905E-02
520365.15	4258692.82	564099.0537	0.44038	0.32363	0.42748	0.34458	1.07E-02	1.03E-06	6.64E-07	1.00E-06	6.78E-07	1.0726E-02
520355.27	4258702.84	562388.3214	0.4705	0.33099	0.45646	0.35275	1.07E-02	1.10E-06	6.79E-07	1.07E-06	6.94E-07	1.0692E-02
520186.94	4258693.12	561775.8411	1.75507	0.92751	1.62237	0.99969	1.07E-02	4.12E-06	1.90E-06	3.81E-06	1.97E-06	1.0690E-02
520157.12	4258655.32	561759.9611	2.48739	1.52577	2.26179	1.65906	1.07E-02	5.84E-06	3.13E-06	5.31E-06	3.27E-06	1.0696E-02
520196.86	4258703.1	558250.8976	1.58571	0.81999	1.47332	0.88255	1.06E-02	3.72E-06	1.68E-06	3.46E-06	1.74E-06	1.0622E-02
520147.12	4258646.05	551368.5226	2.90149	1.83714	2.61828	2.00195	1.05E-02	6.81E-06	3.77E-06	6.15E-06	3.94E-06	1.0501E-02
520147.12	4258655.32	539010.2038	2.98985	1.71437	2.6866	1.85484	1.02E-02	7.02E-06	3.52E-06	6.31E-06	3.65E-06	1.0266E-02
520365.17	4258702.82	534151.4274	0.44628	0.31685	0.4331	0.33721	1.02E-02	1.05E-06	6.50E-07	1.02E-06	6.64E-07	1.0157E-02
520157.12	4258664.6	531634.1877	2.55475	1.43574	2.31624	1.55154	1.01E-02	6.00E-06	2.94E-06	5.44E-06	3.05E-06	1.0123E-02
520186.96	4258703.12	529735.306	1.79066	0.88188	1.65298	0.94795	1.01E-02	4.20E-06	1.81E-06	3.88E-06	1.87E-06	1.0081E-02
520177.04	4258693.13	525404.7531	2.00342	1.00358	1.83797	1.07998	9.99E-03	4.70E-06	2.06E-06	4.31E-06	2.13E-06	1.0000E-02
520137.12	4258646.05	525153.9319	3.57866	2.09768	3.18247	2.27288	9.98E-03	8.40E-06	4.30E-06	7.47E-06	4.47E-06	1.0007E-02
520375.05	4258692.8	523276.3796	0.41865	0.30989	0.40644	0.32958	9.95E-03	9.83E-07	6.36E-07	9.54E-07	6.49E-07	9.9498E-03
520137.12	4258655.32	512025.5326	3.6851	1.93506	3.26165	2.08215	9.73E-03	8.65E-06	3.97E-06	7.66E-06	4.10E-06	9.7571E-03
520276.1	4258722.97	505674.2331	0.79371	0.46183	0.75976	0.49782	9.61E-03	1.86E-06	9.47E-07	1.78E-06	9.80E-07	9.6175E-03
520286	4258722.95	505256.639	0.73952	0.43808	0.70971	0.47189	9.60E-03	1.74E-06	8.98E-07	1.67E-06	9.29E-07	9.6092E-03
520266.2	4258722.98	504669.1133	0.85464	0.48778	0.8158	0.52592	9.59E-03	2.01E-06	1.00E-06	1.92E-06	1.04E-06	9.5988E-03
520295.9	4258722.94	503301.2402	0.69121	0.41641	0.66492	0.44806	9.57E-03	1.62E-06	8.54E-07	1.56E-06	8.82E-07	9.5718E-03
520147.12	4258664.6	502477.166	3.06715	1.599	2.74954	1.72011	9.55E-03	7.20E-06	3.28E-06	6.46E-06	3.39E-06	9.5715E-03
520256.29	4258723	502068.1672	0.92375	0.51606	0.87902	0.55632	9.54E-03	2.17E-06	1.06E-06	2.06E-06	1.10E-06	9.5498E-03
520305.8	4258722.92	499711.4967	0.64774	0.39649	0.6244	0.42605	9.50E-03	1.52E-06	8.13E-07	1.47E-06	8.39E-07	9.5033E-03
520246.39	4258723.02	497859.4119	1.00257	0.54684	0.95073	0.58917	9.46E-03	2.35E-06	1.12E-06	2.23E-06	1.16E-06	9.4703E-03
520375.07	4258702.8	495316.0666	0.42383	0.30359	0.41136	0.32267	9.42E-03	9.95E-07	6.23E-07	9.66E-07	6.35E-07	9.4183E-03
520315.7	4258722.9	493976.8157	0.60825	0.37772	0.58724	0.40533	9.39E-03	1.43E-06	7.75E-07	1.38E-06	7.98E-07	9.3940E-03
520157.12	4258673.87	493534.2778	2.61469	1.34986	2.36669	1.45215	9.38E-03	6.14E-06	2.77E-06	5.56E-06	2.86E-06	9.3985E-03
520127.12	4258646.05	492895.6744	4.55641	2.41345	3.98368	2.59237	9.37E-03	1.07E-05	4.95E-06	9.35E-06	5.10E-06	9.3992E-03
520236.49	4258723.03	491916.287	1.09317	0.58035	1.03274	0.62471	9.35E-03	2.57E-06	1.19E-06	2.42E-06	1.23E-06	9.3576E-03
520177.05	4258703.13	491915.5288	2.04404	0.94969	1.87246	1.02006	9.35E-03	4.80E-06	1.95E-06	4.40E-06	2.01E-06	9.3636E-03
520325.6	4258722.89	485086.5142	0.57235	0.36042	0.55332	0.38619	9.22E-03	1.34E-06	7.39E-07	1.30E-06	7.60E-07	9.2248E-03
520226.59	4258723.05	483881.6868	1.19826	0.61692	1.12752	0.66328	9.20E-03	2.81E-06	1.27E-06	2.65E-06	1.31E-06	9.2057E-03
520127.12	4258655.32	480354.9216	4.68376	2.19799	4.07203	2.34136	9.13E-03	1.10E-05	4.51E-06	9.56E-06	4.61E-06	9.1604E-03
520167.14	4258693.15	479970.9033	2.31789	1.08767	2.10702	1.16908	9.12E-03	5.44E-06	2.23E-06	4.95E-06	2.30E-06	9.1383E-03
520335.5	4258722.87	473811.8752	0.53964	0.34439	0.52227	0.36844	9.01E-03	1.27E-06	7.06E-07	1.23E-06	7.25E-07	9.0102E-03
520137.12	4258664.6	473513.4601	3.77541	1.78691	3.33266	1.91154	9.00E-03	8.86E-06	3.66E-06	7.82E-06	3.76E-06	9.0247E-03
520216.69	4258723.07	473418.3444	1.32151	0.65686	1.23821	0.70529	9.00E-03	3.10E-06	1.35E-06	2.91E-06	1.39E-06	9.0076E-03
520384.96	4258692.79	467816.7544	0.39843	0.29701	0.38682	0.31554	8.89E-03	9.35E-07	6.09E-07	9.08E-07	6.21E-07	8.8954E-03
520157.12	4258683.15	461931.6033	2.67282	1.26628	2.40997	1.36004	8.78E-03	6.27E-06	2.60E-06	5.66E-06	2.68E-06	8.7977E-03
520206.79	4258723.08	459749.9231	1.46709	0.69966	1.36788	0.75072	8.74E-03	3.44E-06	1.43E-06	3.21E-06	1.48E-06	8.7486E-03
520345.4	4258722.85	459676.8086	0.50982	0.32951	0.49383	0.35197	8.74E-03	1.20E-06	6.76E-07	1.16E-06	6.93E-07	8.7413E-03
520147.12	4258673.87	458448.1957	3.13449	1.49094	2.80621	1.59781	8.71E-03	7.36E-06	3.06E-06	6.59E-06	3.15E-06	8.7344E-03
520117.12	4258646.05	453337.2361	6.02456	2.80275	5.18464	2.95182	8.62E-03	1.41E-05	5.75E-06	1.22E-05	5.81E-06	8.6550E-03
520384.97	4258702.79	444201.6386	0.40308	0.2912	0.39121	0.30911	8.44E-03	9.46E-07	5.97E-07	9.18E-07	6.08E-07	8.4465E-03
520286.01	4258722.95	443470.6967	0.74861	0.42495	0.71744	0.45747	8.43E-03	1.76E-06	8.72E-07	1.68E-06	9.01E-07	8.4348E-03
520276.11	4258732.97	443321.6464	0.80306	0.44739	0.76758	0.48176	8.43E-03	1.89E-06	9.18E-07	1.80E-06	9.48E-07	8.4323E-03
520295.91	4258732.94	443194.7901	0.70049	0.40463	0.67307	0.43525	8.42E-03	1.64E-06	8.30E-07	1.58E-06	8.57E-07	8.4292E-03
520117.12	4258655.32	442679.2421	6.17731	2.51752	5.27774	2.61964	8.41E-03	1.45E-05	5.16E-06	1.24E-05	5.16E-06	8.4517E-03
520196.89	4258723.1	441936.3227	1.64127	0.74603	1.52191	0.80023	8.40E-03	3.85E-06	1.53E-06	3.57E-06	1.58E-06	8.4109E-03
520266.21	4258732.98	441922.7961	0.8643	0.47181	0.82376	0.50799	8.40E-03	2.03E-06	9.68E-07	1.93E-06	1.00E-06	8.4061E-03
520355.3	4258722.84	441578.9503	0.48248	0.31564	0.46764	0.33663	8.39E-03	1.13E-06	6.47E-07	1.10E-06	6.63E-07	8.3972E-03
520127.12	4258664.6	441242.8549	4.7838	2.01127	4.15275	2.12313	8.39E-03	1.12E-05	4.12E-06	9.75E-06	4.18E-06	8.4165E-03
520256.31	4258733	440473.4092	0.93504	0.49867	0.88843	0.53664	8.37E-03	2.20E-06	1.02E-06	2.09E-06	1.06E-06	8.3790E-03
520305.82	4258732.92	439595.7048	0.65618	0.3856	0.63191	0.41433	8.36E-03	1.54E-06	7.91E-07	1.48E-06	8.16E-07	8.3605E-03
520246.41	4258733.02	436140.439	1.01423	0.52751	0.96051	0.56717	8.29E-03	2.38E-06	1.08E-06	2.25E-06	1.12E-06	8.2971E-03
520236.51	4258733.03	430262.5705	1.10508	0.55874	1.04291	0.60012	8.18E-03	2.59E-06	1.15E-06	2.45E-06	1.18E-06	8.1859E-03
520315.72	4258732.9	430094.4625	0.61423	0.36682	0.59234	0.39379	8.18E-03	1.44E-06	7.52E-07	1.39E-06	7.75E-07	8.1797E-03
520226.61	4258733.05	425077.4163	1.2144	0.59309	1.14148	0.63637	8.08E-03	2.85E-06	1.22E-06	2.68E-06	1.25E-06	8.0880E-03
520137.12	4258673.87	425012.9196	3.84051	1.65525	3.3984	1.75984	8.08E-03	9.02E-06	3.39E-06	7.98E-06	3.46E-06	8.1026E-03
520325.62	4258732.89	422924.2617	0.57832	0.35049	0.55854	0.37573	8.04E-03	1.36E-06	7.19E-07	1.31E-06	7.40E-07	8.0432E-03
520147.12	4258683.15	422825.3067	3.20665	1.38833	2.8509	1.48633	8.04E-03	7.53E-06	2.85E-06	6.69E-06	2.93E-06	8.0571E-03
520160.07	4258700.23	421059.4477	2.63003	1.10318	2.36922	1.18257	8.00E-03	6.17E-06	2.26E-06	5.56E-06	2.33E-06	8.0199E-03
520365.2	4258722.82	419786.6962	0.45753	0.30285	0.44368	0.32246	7.98E-03	1.07E-06	6.21E-07	1.04E-06	6.35E-07	7.9828E-03
520186.99	4258723.12	418859.9409	1.85237	0.79609	1.70623	0.85397	7.96E-03	4.35E-06	1.63E-06	4.01E-06	1.68E-06	7.9734E-03
520216.71	4258733.07	416895.7376	1.34162	0.6299	1.25594	0.67537	7.92E-03	3.15E-06	1.29E-06	2.95E-06	1.33E-06	7.9332E-03
520335.52	4258732.87	412508.9499	0.5451	0.33513	0.5271	0.35875	7.84E-03	1.28E-06	6.87E-07	1.24E-06	7.06E-07	7.8450E-03
520117.12	4258664.6	405962.6887	6.2821	2.2804	5.36663	2.34026	7.72E-03	1.47E-05	4.68E-06	1.26E-05	4.61E-06	7.7532E-03
520107.12	4258646.05	405286.502	8.29137	3.27618	7.12267	3.30505	7.70E-03	1.95E-05	6.72E-06	1.67E-05	6.51E-06	7.7532E-03
520206.81	4258733.08	403304.9696	1.48556	0.66809	1.38397	0.71652	7.67E-03	3.49E-06	1.37E-06	3.25E-06	1.41E-06	7.6756E-03
520394.86	4258692.77	402093.9677	0.37942	0.28482	0.36831	0.30228	7.64E-03	8.91E-07	5.84E-07	8.65E-07	5.95E-07	7.6460E-03
520345.42	4258732.85	398873.3084	0.51451	0.32073	0.498	0.34282	7.58E-03	1.21E-06	6.58E-07	1.17E-06	6.75E-07	7.5856E-03
520107.12	4258655.32	396695.3815	8.46977	2.89289	7.213	2.87536	7.54E-03	1.99E-05	5.93E-06	1.69E-05	5.66E-06	7.5889E-03
520276.13	4258742.97	393455.3145	0.81425	0.43442	0.77748	0.46701	7.48E-03	1.91E-06	8.91E-07	1.83E-06	9.19E-07	7.4844E-03
520286.03	4258742.95	393424.8123	0.75885	0.41304	0.72651	0.44405	7.48E-03	1.78E-06	8.47E-07	1.71E-06	8.74E-07	7.4835E-03
520295.93	4258742.94	392026.7775	0.70941	0.3935	0.68093	0.42289	7.45E-03	1.67E-06	8.07E-07	1.60E-06	8.32E-07	7.4566E-03
520127.12	4258673.87	392001.7998	4.82933	1.85072	4.22761	1.93337	7.45E-03	1.13E-05	3.80E-06	9.93E-06	3.81E-06	7.4801E-03
520266.23	4258742.98	391799.814	0.87593	0.45746	0.83403	0.49154	7.45E-03	2.06E-06	9.38E-07	1.96E-06	9.68E-07	7.4533E-03
520375.11	4258722.8	390522.566	0.43414	0.29067	0.42107	0.30901	7.42E-03	1.02E-06	5.96E-07	9.89E-07	6.08E-07	7.4263E-03
520256.33	4258743	390273.9548	0.94759	0.48275	0.89956	0.51832	7.42E-03	2.22E-06	9.90E-07	2.11E-06	1.02E-06	7.4247E-03
520177.09	4258723.13	390188.0308	2.11218	0.85123	1.93009	0.91256	7.42E-03	4.96E-06	1.75E-06	4.53E-06	1.80E-06	7.4298E-03
520305.83	4258742.92	388393.5673	0.66434	0.37519	0.6391	0.40297	7.38E-03	1.56E-06	7.69E-07	1.50E-06	7.93E-07	7.3873E-03
520137.12	4258683.15	388111.7385	3.93849	1.53176	3.44433	1.62481	7.38E-03	9.25E-06	3.14E-06	8.09E-06	3.20E-06	7.4010E-03
520246.43	4258743.02	386888.3886	1.02862	0.50985	0.9734	0.54694	7.35E-03	2.41E-06	1.05E-06	2.29E-06	1.08E-06	7.3609E-03
520196.91	4258733.1	386868.8806	1.65823	0.70949	1.53631	0.76131	7.35E-03	3.89E-06	1.46E-06	3.61E-06	1.50E-06	7.3641E-03
520394.87	4258702.77	383280.803	0.38378	0.27957	0.37241	0.29641	7.29E-03	9.01E-07	5.73E-07	8.74E-07	5.83E-07	7.2884E-03
520355.32	4258732.84	382917.3022	0.48694	0.30754	0.47163	0.32819	7.28E-03	1.14E-06	6.31E-07	1.11E-06	6.46E-07	7.2821E-03
520236.53	4258743.03	382285.2374	1.12206	0.539	1.05818	0.57776	7.27E-03	2.63E-06	1.11E-06	2.48E-06	1.14E-06	7.2739E-03
520315.73	4258742.9	379516.2051	0.6214	0.357	0.59862	0.38323	7.21E-03	1.46E-06	7.32E-07	1.41E-06	7.54E-07	7.2183E-03
520226.63	4258743.05	377159.099	1.23258	0.57048	1.15802	0.61121	7.17E-03	2.89E-06	1.17E-06	2.72E-06	1.20E-06	7.1771E-03
520325.63	4258742.89	372767.896	0.58501	0.34135	0.56444	0.36601	7.09E-03	1.37E-06	6.98E-07	1.33E-06	7.20E-07	7.0898E-03
520216.72	4258743.07	369290.478	1.36068	0.60388	1.2729	0.64707	7.02E-03	3.19E-06	1.24E-06	2.99E-06	1.27E-06	7.0282E-03
520187.01	4258733.12	367383.6721	1.86951	0.75494	1.7206	0.81017	6.98E-03	4.39E-06	1.55E-06	4.04E-06	1.59E-06	6.9949E-03
520107.12	4258664.6	364666.488	8.58552	2.58252	7.30115	2.52874	6.93E-03	2.02E-05	5.30E-06	1.71E-05	4.98E-06	6.9792E-03
520365.22	4258732.82	364491.551	0.46206	0.29545	0.44773	0.31478	6.93E-03	1.08E-06	6.06E-07	1.05E-06	6.20E-07	6.9317E-03
520335.53	4258742.87	363255.4372	0.55134	0.32663	0.53264	0.34978	6.90E-03	1.29E-06	6.70E-07	1.25E-06	6.89E-07	6.9087E-03
520117.12	4258673.87	358682.5779	6.27831	2.08017	5.44927	2.10424	6.82E-03	1.47E-05	4.27E-06	1.28E-05	4.14E-06	6.8538E-03
520206.82	4258743.08	357457.2179	1.50677	0.63879	1.40259	0.68501	6.79E-03	3.54E-06	1.31E-06	3.29E-06	1.35E-06	6.8041E-03
520142.99	4258697.3	357304.0426	3.5693	1.30295	3.14066	1.38187	6.79E-03	8.38E-06	2.67E-06	7.37E-06	2.72E-06	6.8128E-03
520127.12	4258683.15	356214.8165	4.97931	1.70276	4.27691	1.76981	6.77E-03	1.17E-05	3.49E-06	1.00E-05	3.48E-06	6.7997E-03
520385.01	4258722.79	354960.1158	0.41245	0.27924	0.40003	0.2964	6.75E-03	9.68E-07	5.73E-07	9.39E-07	5.83E-07	6.7502E-03
520345.44	4258742.85	351174.4886	0.52041	0.31286	0.50328	0.33457	6.68E-03	1.22E-06	6.42E-07	1.18E-06	6.59E-07	6.6789E-03
520276.15	4258752.97	350226.7969	0.82382	0.42162	0.78592	0.45238	6.66E-03	1.93E-06	8.65E-07	1.85E-06	8.91E-07	6.6627E-03
520286.05	4258752.95	349840.2368	0.76761	0.40127	0.73414	0.43073	6.65E-03	1.80E-06	8.23E-07	1.72E-06	8.48E-07	6.6550E-03
520266.25	4258752.98	349714.4292	0.8874	0.44361	0.84432	0.47567	6.65E-03	2.08E-06	9.10E-07	1.98E-06	9.36E-07	6.6534E-03
520295.95	4258752.94	348899.204	0.71784	0.38263	0.68827	0.41072	6.63E-03	1.69E-06	7.85E-07	1.62E-06	8.08E-07	6.6368E-03
520256.34	4258753	348163.1831	0.95986	0.46728	0.91064	0.50068	6.62E-03	2.25E-06	9.58E-07	2.14E-06	9.86E-07	6.6243E-03
520097.12	4258646.05	347956.3173	11.65187	3.77005	10.63734	3.54717	6.61E-03	2.74E-05	7.73E-06	2.50E-05	6.98E-06	6.6811E-03
520305.85	4258752.92	345341.9954	0.67218	0.36519	0.64593	0.39188	6.56E-03	1.58E-06	7.49E-07	1.52E-06	7.71E-07	6.5689E-03
520246.44	4258753.02	345010.8408	1.04171	0.49242	0.98527	0.52729	6.56E-03	2.45E-06	1.01E-06	2.31E-06	1.04E-06	6.5648E-03
520177.1	4258733.13	344232.1051	2.13034

520177.12	4258743.13	307433.964	2.15529	0.76532	1.96619	0.81915	5.84E-03	5.06E-06	1.57E-06	4.62E-06	1.61E-06	5.8566E-03
520343.86	4258473.14	307369.3703	0.36323	0.49071	0.36119	0.53516	5.84E-03	8.53E-07	1.01E-06	8.48E-07	1.05E-06	5.8463E-03
520196.94	4258753.1	306508.537	1.7	0.64589	1.57248	0.69295	5.83E-03	3.99E-06	1.32E-06	3.69E-06	1.36E-06	5.8365E-03
520285.12	4258472.96	305923.0394	0.46418	0.72976	0.46237	0.80594	5.82E-03	1.09E-06	1.50E-06	1.09E-06	1.59E-06	5.8203E-03
520236.56	4258763.03	305242.9034	1.14743	0.49943	1.08134	0.53454	5.80E-03	2.69E-06	1.02E-06	2.54E-06	1.05E-06	5.8094E-03
520353.64	4258473.18	304906.1484	0.34956	0.46374	0.34766	0.50442	5.80E-03	8.21E-07	9.51E-07	8.16E-07	9.93E-07	5.7993E-03
520120.79	4258692	304057.1432	5.94848	1.6873	5.04001	1.70436	5.78E-03	1.40E-05	3.46E-06	1.18E-05	3.36E-06	5.8122E-03
520275.33	4258472.93	303845.8375	0.48512	0.7875	0.48306	0.87185	5.78E-03	1.14E-06	1.62E-06	1.13E-06	1.72E-06	5.7812E-03
520315.77	4258762.9	302711.3836	0.6364	0.33922	0.61179	0.3636	5.75E-03	1.49E-06	6.96E-07	1.44E-06	7.16E-07	5.7583E-03
520265.55	4258472.9	301433.2026	0.50759	0.85278	0.50514	0.94681	5.73E-03	1.19E-06	1.75E-06	1.19E-06	1.86E-06	5.7357E-03
520226.66	4258763.05	301251.3709	1.2613	0.52631	1.18384	0.5637	5.73E-03	2.96E-06	1.08E-06	2.78E-06	1.11E-06	5.7342E-03
520411.9	4258689.91	301035.6197	0.34861	0.26683	0.33828	0.28283	5.72E-03	8.18E-07	5.47E-07	7.94E-07	5.57E-07	5.7249E-03
520363.43	4258473.21	300053.3675	0.33664	0.43866	0.3348	0.47603	5.70E-03	7.90E-07	9.00E-07	7.86E-07	9.37E-07	5.7060E-03
520375.14	4258742.8	298699.69	0.4422	0.277	0.42831	0.29484	5.68E-03	1.04E-06	5.68E-07	1.01E-06	5.80E-07	5.6809E-03
520355.35	4258752.84	298671.9701	0.49749	0.293	0.48105	0.313	5.68E-03	1.17E-06	6.01E-07	1.13E-06	6.16E-07	5.6807E-03
520255.76	4258472.87	298393.792	0.53165	0.92636	0.52869	1.03215	5.67E-03	1.25E-06	1.90E-06	1.24E-06	2.03E-06	5.6783E-03
520325.67	4258762.89	296118.0267	0.59816	0.32449	0.57593	0.34765	5.63E-03	1.40E-06	6.66E-07	1.35E-06	6.84E-07	5.6328E-03
520216.76	4258763.07	295750.1791	1.39413	0.55483	1.30253	0.59474	5.62E-03	3.27E-06	1.14E-06	3.06E-06	1.17E-06	5.6303E-03
520245.97	4258473.84	294852.677	0.55746	1.01014	0.55415	1.13019	5.60E-03	1.31E-06	2.07E-06	1.30E-06	2.22E-06	5.6115E-03
520373.22	4258473.24	294038.7965	0.32441	0.41565	0.32263	0.45004	5.59E-03	7.62E-07	8.52E-07	7.57E-07	8.86E-07	5.5924E-03
520149.5	4258725.84	293506.6039	3.28357	1.02766	2.90592	1.08172	5.58E-03	7.71E-06	2.11E-06	6.82E-06	2.13E-06	5.5978E-03
520324.31	4258463.08	292757.9722	0.38593	0.5623	0.38497	0.61518	5.56E-03	9.06E-07	1.15E-06	9.04E-07	1.21E-06	5.5690E-03
520314.52	4258463.05	292651.8782	0.40143	0.60011	0.40051	0.65781	5.56E-03	9.42E-07	1.23E-06	9.40E-07	1.29E-06	5.5672E-03
520187.04	4258753.12	292520.9451	1.91434	0.68489	1.75888	0.73404	5.56E-03	4.49E-06	1.40E-06	4.13E-06	1.44E-06	5.5718E-03
520334.1	4258463.11	292254.7825	0.37132	0.52792	0.37021	0.57656	5.56E-03	8.72E-07	1.08E-06	8.69E-07	1.13E-06	5.5592E-03
520304.73	4258463.02	292020.5697	0.41787	0.64196	0.41688	0.70515	5.55E-03	9.81E-07	1.32E-06	9.79E-07	1.39E-06	5.5554E-03
520343.89	4258463.14	291048.6843	0.35748	0.4969	0.35625	0.54166	5.53E-03	8.39E-07	1.02E-06	8.36E-07	1.07E-06	5.5361E-03
520294.94	4258462.99	290883.374	0.43532	0.68855	0.43413	0.75807	5.53E-03	1.02E-06	1.41E-06	1.02E-06	1.49E-06	5.5341E-03
520107.12	4258683.15	290861.2075	8.83842	2.10028	7.43733	2.01516	5.53E-03	2.07E-05	4.31E-06	1.75E-05	3.97E-06	5.5752E-03
520236.18	4258472.81	290657.2599	0.58527	1.1071	0.58213	1.24422	5.52E-03	1.37E-06	2.27E-06	1.37E-06	2.45E-06	5.5323E-03
520408.97	4258706.94	290326.3214	0.36	0.26211	0.34908	0.27735	5.52E-03	8.45E-07	5.38E-07	8.20E-07	5.46E-07	5.5213E-03
520383.01	4258473.27	289318.9019	0.31291	0.39405	0.31103	0.42588	5.50E-03	7.35E-07	8.08E-07	7.30E-07	8.38E-07	5.5025E-03
520285.15	4258462.96	289266.1503	0.45389	0.74076	0.45236	0.81766	5.50E-03	1.07E-06	1.52E-06	1.06E-06	1.61E-06	5.5037E-03
520353.67	4258463.18	288080.5409	0.34433	0.46911	0.34309	0.51022	5.48E-03	8.08E-07	9.62E-07	8.05E-07	1.00E-06	5.4795E-03
520124.46	4258700.84	287791.9041	1.5451	0.4602	1.5151	0.53607	5.47E-03	1.28E-05	3.11E-06	1.09E-05	3.02E-06	5.5003E-03
520335.57	4258762.87	287744.711	0.56307	0.31067	0.54287	0.33264	5.47E-03	1.32E-06	6.37E-07	1.27E-06	6.55E-07	5.4734E-03
520275.37	4258462.93	287212.9599	0.47366	0.79909	0.47168	0.88478	5.46E-03	1.11E-06	1.64E-06	1.11E-06	1.74E-06	5.4650E-03
520167.22	4258743.15	286402.3925	2.48069	0.81779	2.2428	0.87084	5.44E-03	5.82E-06	1.68E-06	5.27E-06	1.71E-06	5.4585E-03
520206.86	4258763.08	286348.8114	1.54078	0.58452	1.43237	0.62704	5.44E-03	3.62E-06	1.20E-06	3.38E-06	1.23E-06	5.4524E-03
520226.39	4258472.78	286111.8106	0.61498	1.21923	0.61294	1.37703	5.44E-03	1.44E-06	2.50E-06	1.44E-06	2.71E-06	5.4466E-03
520265.58	4258462.9	284685.1689	0.49476	0.86524	0.49241	0.96126	5.41E-03	1.16E-06	1.77E-06	1.16E-06	1.89E-06	5.4173E-03
520365.25	4258752.82	284157.1373	0.47148	0.28169	0.45617	0.30045	5.40E-03	1.11E-06	5.78E-07	1.07E-06	5.91E-07	5.4047E-03
520276.18	4258772.97	283031.5062	0.84253	0.39716	0.80285	0.42461	5.38E-03	1.98E-06	8.15E-07	1.88E-06	8.36E-07	5.3854E-03
520087.12	4258646.05	283013.5226	12.31595	4.06718	18.58445	3.57844	5.38E-03	2.89E-05	8.34E-06	4.36E-05	7.04E-06	5.4675E-03
520266.28	4258772.98	282825.0237	0.90763	0.41643	0.8628	0.44508	5.38E-03	2.13E-06	8.54E-07	2.03E-06	8.76E-07	5.3819E-03
520363.46	4258463.21	282783.7456	0.33183	0.44359	0.3306	0.48138	5.38E-03	7.79E-07	9.10E-07	7.76E-07	9.48E-07	5.3786E-03
520286.08	4258772.95	282097.4704	0.78437	0.37894	0.74909	0.40532	5.36E-03	1.84E-06	7.77E-07	1.76E-06	7.98E-07	5.3673E-03
520255.79	4258462.87	281707.685	0.51729	0.93988	0.51479	1.04838	5.35E-03	1.21E-06	1.93E-06	1.21E-06	2.06E-06	5.3612E-03
520295.98	4258772.94	281385.0976	0.73397	0.36229	0.70254	0.38765	5.35E-03	1.72E-06	7.43E-07	1.65E-06	7.63E-07	5.3535E-03
520256.38	4258773	281346.1068	0.98064	0.43661	0.92975	0.46668	5.35E-03	2.30E-06	8.95E-07	2.18E-06	9.19E-07	5.3542E-03
520216.6	4258472.75	280661.851	0.64685	1.35315	0.64745	1.53474	5.33E-03	1.52E-06	2.78E-06	1.52E-06	3.02E-06	5.3437E-03
520097.12	4258673.87	279503.5641	11.5555	2.53205	10.81178	2.32385	5.31E-03	2.71E-05	5.19E-06	2.54E-05	4.57E-06	5.3751E-03
520246.48	4258773.02	279058.8694	1.06435	0.45804	1.00612	0.48985	5.30E-03	2.50E-06	9.39E-07	2.36E-06	9.64E-07	5.3112E-03
520087.12	4258636.77	278780.6896	12.06758	4.90768	18.62203	4.29346	5.30E-03	2.83E-05	1.01E-05	4.37E-05	8.45E-06	5.3897E-03
520392.8	4258473.3	278682.2932	0.30146	0.37277	0.29946	0.40235	5.30E-03	7.08E-07	7.65E-07	7.03E-07	7.92E-07	5.3002E-03
520345.47	4258762.85	278260.8142	0.53149	0.29799	0.51299	0.31876	5.29E-03	1.25E-06	6.11E-07	1.20E-06	6.27E-07	5.2929E-03
520246	4258462.84	278246.16	0.54133	1.02533	0.53925	1.14862	5.29E-03	1.27E-06	2.10E-06	1.27E-06	2.26E-06	5.2959E-03
520305.88	4258772.92	278160.5985	0.68702	0.34635	0.65894	0.37069	5.29E-03	1.61E-06	7.10E-07	1.55E-06	7.30E-07	5.2919E-03
520373.25	4258463.24	277646.9467	0.32002	0.42011	0.31875	0.45492	5.28E-03	7.51E-07	8.62E-07	7.48E-07	8.96E-07	5.2808E-03
520158.72	4258739.64	277462.8778	2.82169	0.88491	2.52898	0.9364	5.27E-03	6.62E-06	1.81E-06	5.94E-06	1.84E-06	5.2903E-03
520394.92	4258732.77	277030.9398	0.39498	0.26204	0.38276	0.2779	5.27E-03	9.27E-07	5.37E-07	8.99E-07	5.47E-07	5.2688E-03
520087.12	4258655.32	276702.3044	12.56411	3.45081	18.52842	3.04927	5.26E-03	2.95E-05	7.08E-06	4.35E-05	6.00E-06	5.3457E-03
520177.14	4258753.13	276595.2914	2.17715	0.72846	1.98474	0.77824	5.26E-03	5.11E-06	1.49E-06	4.66E-06	1.53E-06	5.2704E-03
520196.96	4258763.1	275708.4444	1.71663	0.61707	1.58692	0.66189	5.24E-03	4.03E-06	1.27E-06	3.73E-06	1.30E-06	5.2510E-03
520236.58	4258773.03	275511.2312	1.15945	0.48051	1.09237	0.51441	5.24E-03	2.72E-06	9.85E-07	2.56E-06	1.01E-06	5.2443E-03
520383.04	4258463.27	275426.5107	0.30893	0.39812	0.30743	0.43041	5.24E-03	7.25E-07	8.17E-07	7.22E-07	8.47E-07	5.2385E-03
520110.64	4258691.64	274769.7589	7.983	1.86847	6.69281	1.80934	5.22E-03	1.87E-05	3.83E-06	1.57E-05	3.56E-06	5.2647E-03
520206.81	4258472.72	274695.927	0.68054	1.51192	0.68543	1.72239	5.22E-03	1.60E-06	3.10E-06	1.61E-06	3.39E-06	5.2312E-03
520236.21	4258462.81	274259.6701	0.56692	1.1244	0.56619	1.26495	5.21E-03	1.33E-06	2.31E-06	1.33E-06	2.49E-06	5.2206E-03
520385.04	4258742.79	274102.0419	0.41932	0.26616	0.40616	0.28287	5.21E-03	9.84E-07	5.46E-07	9.54E-07	5.57E-07	5.2132E-03
520315.78	4258772.9	273086.3503	0.64383	0.33096	0.61843	0.35429	5.19E-03	1.51E-06	6.79E-07	1.45E-06	6.97E-07	5.1952E-03
520226.68	4258773.05	272257.0151	1.27559	0.50576	1.19673	0.54191	5.18E-03	2.99E-06	1.04E-06	2.81E-06	1.07E-06	5.1830E-03
520226.42	4258462.78	269761.4276	0.5941	1.23954	0.59577	1.40085	5.13E-03	1.39E-06	2.54E-06	1.40E-06	2.76E-06	5.1358E-03
520197.03	4258472.69	268126.0373	0.71572	1.70184	0.72647	1.94878	5.10E-03	1.68E-06	3.49E-06	1.71E-06	3.84E-06	5.1073E-03
520216.77	4258773.07	267204.2347	1.40914	0.53231	1.3158	0.57082	5.08E-03	3.31E-06	1.09E-06	3.09E-06	1.12E-06	5.0877E-03
520150.22	4258736.13	266751.1142	3.24743	0.96146	2.88296	1.00781	5.07E-03	7.62E-06	1.97E-06	6.77E-06	1.98E-06	5.0888E-03
520355.37	4258762.84	266747.0139	0.50227	0.28605	0.48521	0.30565	5.07E-03	1.18E-06	5.87E-07	1.14E-06	6.02E-07	5.0739E-03
520325.68	4258772.89	266699.392	0.6047	0.31669	0.58166	0.33898	5.07E-03	1.42E-06	6.50E-07	1.37E-06	6.67E-07	5.0736E-03
520343.92	4258453.14	266266.6656	0.35164	0.50334	0.35122	0.54809	5.06E-03	8.26E-07	1.03E-06	8.25E-07	1.08E-06	5.0650E-03
520402.59	4258473.33	266153.5945	0.2911	0.35503	0.28913	0.38244	5.06E-03	6.83E-07	7.28E-07	6.79E-07	7.53E-07	5.0619E-03
520375.16	4258752.8	265915.2296	0.44653	0.27068	0.43217	0.28827	5.05E-03	1.05E-06	5.55E-07	1.01E-06	5.67E-07	5.0578E-03
520392.83	4258463.3	265844.8651	0.29798	0.37658	0.29628	0.40661	5.05E-03	7.00E-07	7.72E-07	6.96E-07	8.00E-07	5.0562E-03
520216.63	4258462.75	264630.2358	0.62262	1.37672	0.62815	1.56159	5.03E-03	1.46E-06	2.82E-06	1.47E-06	3.07E-06	5.0390E-03
520187.06	4258763.12	263888.1242	1.93265	0.65366	1.77452	0.69983	5.02E-03	4.54E-06	1.34E-06	4.17E-06	1.38E-06	5.0275E-03
520353.71	4258453.18	262862.6688	0.33899	0.47476	0.33853	0.51597	5.00E-03	7.96E-07	9.74E-07	7.95E-07	1.02E-06	5.0001E-03
520114.16	4258700.13	261162.3457	7.24378	1.67766	6.08165	1.63611	4.96E-03	1.70E-05	3.44E-06	1.43E-05	3.22E-06	5.0022E-03
520187.24	4258472.66	260427.5878	0.75188	1.93561	0.76986	2.22636	4.95E-03	1.77E-06	3.97E-06	1.81E-06	4.38E-06	4.9622E-03
520335.58	4258772.87	259144.4665	0.56913	0.30342	0.54817	0.32464	4.93E-03	1.34E-06	6.22E-07	1.29E-06	6.39E-07	4.9298E-03
520206.87	4258773.08	259050.9688	1.55684	0.56011	1.44638	0.60083	4.93E-03	3.65E-06	1.15E-06	3.40E-06	1.18E-06	4.9335E-03
520363.49	4258453.21	258977.3742	0.33698	0.44862	0.32645	0.48664	4.92E-03	7.68E-07	9.20E-07	7.66E-07	9.58E-07	4.9261E-03
520206.85	4258462.72	258866.4044	0.65224	1.53977	0.6628	1.75299	4.92E-03	1.53E-06	3.16E-06	1.56E-06	3.45E-06	4.9303E-03
520087.12	4258664.6	258363.6032	12.74651	2.981	18.45586	2.64286	4.91E-03	2.99E-05	6.11E-06	4.33E-05	5.20E-06	4.9956E-03
520276.2	4258782.97	256676.296	0.85189	0.38539	0.81148	0.44149	4.88E-03	2.00E-06	7.90E-07	1.91E-06	8.10E-07	4.8845E-03
520141.73	4258732.63	256623.9795	3.83162	1.05025	3.35374	1.08578	4.88E-03	9.00E-06	2.15E-06	7.87E-06	2.14E-06	4.8991E-03
520266.3	4258782.98	256470.7656	0.91741	0.40324	0.87187	0.43061	4.88E-03	2.15E-06	8.27E-07	2.05E-06	8.48E-07	4.8809E-03
520286.1	4258782.95	255805.192	0.79317	0.36835	0.75714	0.39339	4.86E-03	1.86E-06	7.55E-07	1.78E-06	7.74E-07	4.8676E-03
520402.62	4258463.33	255598.8879	0.2879	0.35852	0.28618	0.38632	4.86E-03	6.76E-07	7.35E-07	6.72E-07	7.60E-07	4.8613E-03
520256.39	4258783	255383.1981	0.99169	0.42204	0.94	0.45097	4.85E-03	2.33E-06	8.66E-07	2.21E-06	8.88E-07	4.8607E-03
520296	4258782.94	254762.9701	0.74166	0.35254	0.70949	0.37661	4.84E-03	1.74E-06	7.23E-07	1.67E-06	7.41E-07	4.8475E-03
520373.28	4258453.24	254623.1671	0.31558	0.42463	0.31492	0.45975	4.84E-03	7.41E-07	8.71E-07	7.39E-07	9.05E-07	4.8432E-03
520246.49	4258783.02	253428.8549	1.07633	0.44189	1.01717	0.47267	4.82E-03	2.53E-06	9.06E-07	2.39E-06	9.30E-07	4.8240E-03
520097.12	4258683.15	253416.173	12.10931	2.26049	10.86067	2.07137	4.82E-03	2.84E-05	4.64E-06	2.55E-05	4.08E-06	4.8796E-03
520365.27	4258762.82	253285.2267	0.47519	0.27482	0.45935	0.29328	4.81E-03	1.12E-06	5.64E-07	1.08E-06	5.77E-07	4.8178E-03
520158.97	4258749.74	252598.3106	2.83966	0.83794	2.54412	0.88279	4.80E-03	6.67E-06	1.72E-06	5.97E-06	1.74E-06	4.8175E-03
520197.06	4258462.69	252291.6997	0.68262	1.73545	0.69883	1.98428	4.80E-03	1.60E-06	3.56E-06	1.64E-06	3.91E-06	4.8063E-03
520168.27	4258756.76	252093.1011	2.47285	0.75827	2.23646	0.8046	4.79E-03	5.81E-06	1.56E-06	5.25E-06	1.58E-06	4.8060E-03
520421.9	4258689.97	251744.1056	0.33274	0.25629	0.32273	0.27138	4.79E-03	7.81E-07	5.26E-07	7.58E-07	5.34E-07	4.7878E-03
520305.9	4258782.92	251702.0506	0.69403	0.3374	0.6652	0.36056	4.78E-03	1.63E-06	6.92E-07	1.56E-06	7.10E-07	4.7890E-03
520177.45	4258472.63	251409.8641	0.78793	2.22526	0.81346	2.56992	4.78E-03	1.85E-06	4.56E-06	1.91E-06	5.06E-06	4.7922E-03
520412.38	4258473.36	250663.1889	0.2812	0.33854	0.27923	0.36398	4.76E-03	6.60E-07	6.94E-07	6.56E-07	7.16E-07	4.7674E-03
520177.15	4258763.13	250529.6518	2.19726	0.69461	2.0017	0.74042	4.76E-03	5.16E-06	1.42E-06	4.70E-06	1.46E-06	4.7749E-03
520345.49	4258772.85	250493.5783	0.53688	0.2911	0.51768	0.31126	4.76E-03	1.26E-06	5.97E-07	1.22E-06	6.13E-07	4.7651E-03
520236.59	4258783.03	250375.0473	1.17258	0.46282	1.10432	0.4957	4.76E-03	2.75E-06	9.49E-07	2.59E-06	9.76E-07	4.7664E-03
520196.97	4258773.1	249691.0664	1.73257	0.59042	1.60063	0.63293	4.75E-03	4.07E-06	1.21E-06	3.76E-06	1.25E-06	4.7565E-03
520394.94	4258742.77	248131.206	0.39856	0.25623	0.38599	0.27189	4.72E-03	9.36E-07	5.26E-07	9.06E-07	5.35E-07	4.7194E-03
520226.69	4258783.05	247488.3872	1.2898	0.48642	1.20948	0.52142	4.70E-03	3.03E-06	9.98E-07	2.84E-06	1.03E-06	4.7122E-03
520315.8	4258782.9	247326.6836	0.6505	0.32281	0.62439	0.34507	4.70E-03	1.53E-06	6.62E-07	1.47E-06	6.79E-07	4.7056E-03
520416.03	4258714.03	245546.9875	0.35091	0.2519	0.34006	0.26619	4.67E-03	8.24E-07	5.17E-07	7.98E-07	5.24E-07	4.6701E-03
520409	4258726.94	245313.165	0.36732	0.25203	0.35587	0.2666	4.66E-03	8.62E-07	5.17E-07	8.35E-07	5.25E-07	4.6657E-03
520385.06	4258752.79	245159.6552	0.42313	0.26012	0.40956	0.27664	4.66E-03	9.93E-07	5.33E-07	9.62E-07	5.45E-07	4.6631E-03
520187.27	4258462.66	244788.8737	0.71282	1.97383	0.73481	2.26647	4.65E-03	1.67E-06	4.05E-06	1.73E-06	4.46E-06	4.6649E-03
520412.41	4258463.36	242978.2668	0.27828	0.34184	0.27654	0.36759	4.62E-03	6.53E-07	7.01E-07	6.49E-07	7.24E-07	4.6213E-03
520216.79	4258783.07	242787.2272	1.42308	0.51119	1.32805	0.54828	4.61E-03	3.34E-06	1.05E-06	3.12E-06	1.08E-06	4.6235E-03
520325.7	4258782.89	241450.8261	0.61084	0.30912	0.58709	0.33048	4.59E-03	1.43E-06	6.34E-07	1.38E-06	6.51E-07	4.5936E-03
520324.37	4258443.08	241223.2356	0.37195	0.57686	0.37164	0.62995	4.59E-03	8.73E-07	1.18E-06	8.72E-07	1.24E-06	4.5894E-03
520167.66	4258472.59	241140.7983	0.82249	2.58344	0.85457	3.00397	4.58E-03	1.93E-06	5.30E-06	2.01E-06	5.91E-06	4.5988E-03
520314.58	4258443.05	241009.1733	0.38607	0.61572	0.38544	0.67405	4.58E-03	9.06E-07	1.26E-06	9.05E-07	1.33E-06	4.5855E-03
520334.16	4258443.11	240904.8753	0.35857	0.54146	0.35845	0.59009	4.58E-03	8.42E-07	1.11E-06	8.42E-07	1.16E-06	4.5831E-03
520355.39	4258772.84	240272.4157	0.5072	0.27954	0.48948	0.29865	4.57E-03	1.19E-06	5.73E-07	1.15E-06	5.88E-07	4.5706E-03
520343.95	4258443.14	240008.861	0.34581	0.50959	0.34585	0.55425	4.56E-03	8.12E-07	1.05E-06	8.12E-07	1.09E-06	4.5659E-03
520187.07	4258743.12	239428.0909	1.94813	0.62463	1.78773	0.66779	4.55E-03	4.57E-06	1.28E-06	4.20E-06	1.31E-06	4.5625E-03
520295.01	4258442.99	239152.214	0.41672	0.70592	0.41535	0.77776	4.55E-03	9.78E-07	1.45E-06	9.75E-07	1.53E-06	4.5508E-03
520375.17	4258762.8	238062.0925	0.45019	0.26429	0.43534	0.28165	4.53E-03	1.06E-06	5.42E-07	1.02E-06	5.54E-07	4.5283E-03
520285.22	4258442.96	237575.2974	0.43336	0.75904	0.43185	0.83938	4.52E-03	1.02E-06	1.56E-06	1.01E-06	1.65E-06	4.5211E-03
520087.12	4258673.87	236446.3864	12.85658	2.6129	18.37158	2.32301	4.49E-03	3.02E-05	5.36E-06	4.31E-05	4.57E-06	4.5777E-03
520353.74	4258443.18	236268.6616	0.33357	0.4807	0.3338	0.5217	4.49E-03	7.83E-07	9.86E-07	7.84E-07	1.03E-06	4.4946E-03
520142.45	4258742.92	236238.9639	3.81046	0.98381	3.33999	1.01135	4.49E-03	8.95E-06	2.02E-06	7.84E-06	1.99E-06	4.5113E-03
520177.48	4258462.63	236179.818	0.74183	2.26684	0.76908	2.61455	4.49E-03	1.74E-06	4.65E-06	1.81E-06	5.15E-06	4.5027E-03
520206.89	4258783.08	235761.4634	1.5723	0.53741	1.45975	0.57633	4.48E-03	3.69E-06	1.10E-06	3.43E-06	1.13E-06	4.4908E-03
520275.43	4258442.93	235383.6796	0.45095	0.81889	0.44968	0.90908	4.48E-03	1.06E-06	1.68E-06	1.06E-06	1.79E-06	4.4836E-03
520335.6	4258782.87	234839.5472	0.57503	0.29643	0.55335	0.31687	4.46E-03	1.35E-06	6.08E-07	1.30E-06	6.24E-07	4.4678E-03
520103.97	4258699.66	233834.4791	9.93242	1.8214	8.39205	1.70369	4.44E-03	2.33E-05	3.74E-06	1.97E-05	3.35E-06	4.4949E-03
520266.31	4258782.98	233803.0397	0.92743	0.39044	0.88119	0.41683	4.44E-03	2.18E-06	8.01E-07	2.07E-06	8.21E-07	4.4500E-03
520363.53	4258443.21	233771.3798	0.32207	0.45387	0.32219	0.49182	4.44E-03	7.56E-07	9.31E-07	7.56E-07	9.68E-07	4.4470E-03
520276.21	4258782.97	233694.8542	0.86063	0.37373	0.81961	0.39873	4.44E-03	2.02E-06	7.66E-07	1.92E-06	7.85E-07	4.4476E-03
520265.64	4258442.9	233179.6908	0.46951	0.88695	0.46905	0.98842	4.43E-03	1.10E-06	1.82E-06	1.10E-06	1.95E-06	4.4383E-03
520286.11	4258782.95	232953.0811	0.80159	0.35789	0.76493	0.38178	4.43E-03	1.88E-06	7.34E-07	1.80E-06	7.52E-07	4.4332E-03
520403.39	4258739.27	232943.7265	0.38078	0.25008	0.36874	0.26497	4.43E-03	8.94E-07	5.13E-07	8.66E-07	5.22E-07	4.4306E-03

520148.08	4258472.53	214158.7477	0.87805	3.61933	0.92759	4.29585	4.07E-03	2.06E-06	7.42E-06	2.18E-06	8.46E-06	4.0909E-03
520431.9	4258690.02	214080.6618	0.31853	0.24697	0.30884	0.26121	4.07E-03	7.48E-07	5.07E-07	7.25E-07	5.14E-07	4.0718E-03
520402.68	4258443.33	214077.0715	0.28121	0.36553	0.2803	0.39405	4.07E-03	6.60E-07	7.50E-07	6.58E-07	7.76E-07	4.0721E-03
520266.33	4258802.98	213740.7791	0.93603	0.3777	0.88919	0.40336	4.06E-03	2.20E-06	7.75E-07	2.09E-06	7.94E-07	4.0687E-03
520431.95	4258473.42	213557.8253	0.26262	0.30869	0.26057	0.33076	4.06E-03	6.17E-07	6.33E-07	6.12E-07	6.51E-07	4.0619E-03
520276.23	4258802.97	213446.4269	0.86832	0.36209	0.82678	0.38626	4.06E-03	2.04E-06	7.43E-07	1.94E-06	7.60E-07	4.0627E-03
520285.25	4258432.96	213441.1795	0.42328	0.7668	0.42252	0.84945	4.06E-03	9.94E-07	1.57E-06	9.92E-07	1.67E-06	4.0624E-03
520335.62	4258792.87	213154.6843	0.57976	0.28938	0.55742	0.30897	4.05E-03	1.36E-06	5.93E-07	1.31E-06	6.08E-07	4.0556E-03
520353.77	4258433.18	212840.5526	0.32816	0.4865	0.32868	0.5273	4.05E-03	7.70E-07	9.98E-07	7.72E-07	1.04E-06	4.0493E-03
520256.43	4258803	212799.6083	1.01055	0.39372	0.95747	0.42108	4.04E-03	2.37E-06	8.07E-07	2.25E-06	8.29E-07	4.0512E-03
520286.13	4258802.95	212483.1326	0.80825	0.34726	0.77113	0.37019	4.04E-03	1.90E-06	7.12E-07	1.81E-06	7.29E-07	4.0441E-03
520296.03	4258802.94	211715.2387	0.75628	0.33358	0.72299	0.35547	4.02E-03	1.78E-06	6.84E-07	1.70E-06	7.00E-07	4.0292E-03
520275.46	4258432.93	211392.3176	0.43976	0.82738	0.43986	0.92014	4.02E-03	1.03E-06	1.70E-06	1.03E-06	1.81E-06	4.0238E-03
520246.53	4258803.02	211116.0914	1.09511	0.4107	1.03444	0.43987	4.01E-03	2.57E-06	8.42E-07	2.43E-06	8.66E-07	4.0196E-03
520158.16	4258769.39	210946.5181	2.9192	0.76407	2.61193	0.79631	4.01E-03	6.85E-06	1.57E-06	6.13E-06	1.57E-06	4.0258E-03
520363.56	4258433.21	210907.3024	0.31713	0.45922	0.31765	0.49697	4.01E-03	7.45E-07	9.42E-07	7.46E-07	9.78E-07	4.0124E-03
520114.24	4258724.43	210876.955	7.37375	1.3774	6.20592	1.31766	4.01E-03	1.73E-05	2.82E-06	1.46E-05	2.59E-06	4.0457E-03
520431.98	4258463.42	210554.9306	0.26019	0.31163	0.25838	0.33387	4.00E-03	6.11E-07	6.39E-07	6.07E-07	6.57E-07	4.0048E-03
520265.67	4258432.9	209118.5107	0.45712	0.8971	0.4587	1.00122	3.97E-03	1.07E-06	1.84E-06	1.08E-06	1.97E-06	3.9809E-03
520236.63	4258803.03	209053.606	1.1939	0.42946	1.12368	0.46047	3.97E-03	2.80E-06	8.81E-07	2.64E-06	9.06E-07	3.9810E-03
520177.19	4258783.13	209003.0659	2.23167	0.6347	2.03036	0.67263	3.97E-03	5.24E-06	1.30E-06	4.77E-06	1.32E-06	3.9854E-03
520305.93	4258802.92	208960.6583	0.70728	0.32002	0.67727	0.34104	3.97E-03	1.66E-06	6.56E-07	1.59E-06	6.71E-07	3.9765E-03
520423.08	4258721.11	208727.7454	0.34177	0.24207	0.33093	0.25552	3.97E-03	8.02E-07	4.96E-07	7.77E-07	5.03E-07	3.9701E-03
520206.91	4258442.72	208708.8656	0.59705	1.59306	0.61427	1.81164	3.97E-03	1.40E-06	3.27E-06	1.44E-06	3.57E-06	3.9769E-03
520197.01	4258793.1	208512.9188	1.76477	0.54344	1.62783	0.58119	3.96E-03	4.14E-06	1.11E-06	3.82E-06	1.14E-06	3.9737E-03
520373.35	4258433.24	207710.5792	0.30655	0.43428	0.30705	0.46927	3.95E-03	7.20E-07	8.91E-07	7.21E-07	9.24E-07	3.9515E-03
520365.3	4258782.82	207489.7631	0.48412	0.26279	0.46705	0.28042	3.94E-03	1.14E-06	5.39E-07	1.10E-06	5.52E-07	3.9473E-03
520226.73	4258803.05	206564.5714	1.31089	0.45032	1.22841	0.48309	3.93E-03	3.08E-06	9.24E-07	2.88E-06	9.51E-07	3.9343E-03
520255.88	4258432.87	206349.1248	0.47518	0.97679	0.4788	1.09379	3.92E-03	1.12E-06	2.00E-06	1.12E-06	2.15E-06	3.9287E-03
520345.52	4258792.85	206066.8463	0.54641	0.27788	0.52589	0.29664	3.92E-03	1.28E-06	5.70E-07	1.23E-06	5.84E-07	3.9206E-03
520093.83	4258699.33	205898.5203	13.79158	1.91017	12.67456	1.72941	3.91E-03	3.24E-05	3.92E-06	2.98E-05	3.40E-06	3.9832E-03
520412.47	4258443.36	204975.2615	0.2721	0.3481	0.27103	0.37458	3.90E-03	6.39E-07	7.14E-07	6.36E-07	7.37E-07	3.8988E-03
520149.06	4258765.63	204575.5117	3.3925	0.82859	3.00749	0.85155	3.89E-03	7.96E-06	1.70E-06	7.06E-06	1.68E-06	3.9070E-03
520315.83	4258802.9	203792.3235	0.66007	0.30613	0.63274	0.32637	3.87E-03	1.55E-06	6.28E-07	1.49E-06	6.42E-07	3.8780E-03
520216.82	4258803.07	203255.2472	1.44832	0.47297	1.35013	0.50718	3.86E-03	3.40E-06	9.70E-07	3.17E-06	9.98E-07	3.8721E-03
520394.97	4258762.77	203214.8005	0.40563	0.24514	0.39227	0.26045	3.86E-03	9.52E-07	5.03E-07	9.21E-07	5.13E-07	3.8656E-03
520246.09	4258432.84	203127.0727	0.49386	1.06829	0.50005	1.20013	3.86E-03	1.16E-06	2.19E-06	1.17E-06	2.36E-06	3.8680E-03
520197.12	4258442.69	202538.6745	0.61856	1.79595	0.63886	2.05024	3.85E-03	1.45E-06	3.68E-06	1.50E-06	4.04E-06	3.8606E-03
520148.11	4258462.53	200932.1458	0.80881	1.67784	0.8592	1.35665	3.82E-03	1.90E-06	7.54E-06	2.02E-06	8.58E-06	3.8394E-03
520187.11	4258793.12	200787.8364	1.98234	0.57412	1.81606	0.61108	3.82E-03	4.65E-06	1.18E-06	4.26E-06	1.20E-06	3.8279E-03
520385.09	4258772.79	200559.1487	0.43046	0.24868	0.41595	0.26476	3.81E-03	1.01E-06	5.10E-07	9.77E-07	5.21E-07	3.8153E-03
520392.92	4258433.3	200428.8146	0.287	0.3886	0.28681	0.41934	3.81E-03	6.74E-07	7.97E-07	6.73E-07	8.25E-07	3.8128E-03
520236.31	4258432.81	199462.4937	0.51298	1.17466	0.52217	1.32345	3.79E-03	1.20E-06	2.41E-06	1.23E-06	2.61E-06	3.7989E-03
520325.73	4258802.89	199273.7708	0.61991	0.29381	0.59498	0.31331	3.79E-03	1.46E-06	6.03E-07	1.40E-06	6.17E-07	3.7919E-03
520167.29	4258783.15	198863.2449	2.5697	0.67594	2.31665	0.70867	3.78E-03	6.03E-06	1.39E-06	5.44E-06	1.40E-06	3.7943E-03
520139.95	4258761.88	198290.2813	4.05938	0.9026	3.54853	0.91046	3.77E-03	9.53E-06	1.85E-06	8.33E-06	1.79E-06	3.7906E-03
520355.42	4258792.84	198013.5413	0.51587	0.26707	0.4969	0.28501	3.76E-03	1.21E-06	5.48E-07	1.17E-06	5.61E-07	3.7674E-03
520206.92	4258803.08	197749.7573	1.59789	0.49629	1.4819	0.53155	3.76E-03	3.75E-06	1.02E-06	3.48E-06	1.05E-06	3.7682E-03
520138.29	4258472.5	197255.1718	0.8949	4.40995	0.96146	5.28675	3.75E-03	2.10E-06	9.04E-06	2.26E-06	1.04E-05	3.7733E-03
520324.43	4258423.08	196417.2477	0.35814	0.58896	0.35734	0.6438	3.73E-03	8.41E-07	1.21E-06	8.39E-07	1.27E-06	3.7377E-03
520334.22	4258423.11	196290.9018	0.3459	0.5531	0.34533	0.60277	3.73E-03	8.12E-07	1.13E-06	8.11E-07	1.19E-06	3.7351E-03
520266.35	4258812.98	196118.2727	0.94412	0.36537	0.8967	0.39043	3.73E-03	2.22E-06	7.49E-07	2.11E-06	7.69E-07	3.7337E-03
520314.65	4258423.05	196098.8963	0.37096	0.62869	0.3701	0.68944	3.73E-03	8.71E-07	1.29E-06	8.69E-07	1.36E-06	3.7319E-03
520276.25	4258812.97	196025.8747	0.87684	0.35098	0.83472	0.3745	3.73E-03	2.06E-06	7.20E-07	1.96E-06	7.37E-07	3.7316E-03
520344.01	4258423.14	195698.1136	0.33417	0.5211	0.334	0.56615	3.72E-03	7.85E-07	1.24E-06	7.07E-07	1.11E-06	3.7236E-03
520375.21	4258782.8	195572.2458	0.45779	0.25264	0.44185	0.26935	3.72E-03	1.07E-06	5.18E-07	1.04E-06	5.30E-07	3.7206E-03
520187.33	4258442.66	195557.629	0.63883	2.04026	0.66172	2.33996	3.72E-03	1.50E-06	4.18E-06	1.55E-06	4.61E-06	3.7290E-03
520256.44	4258813	195392.1453	1.01941	0.38046	0.96562	0.40718	3.71E-03	2.39E-06	7.80E-07	2.27E-06	8.02E-07	3.7203E-03
520226.52	4258432.78	195301.4102	0.53233	1.29889	0.54473	1.46757	3.71E-03	1.25E-06	2.66E-06	1.28E-06	2.89E-06	3.7204E-03
520286.15	4258812.95	195224.8841	0.81657	0.33721	0.7789	0.35942	3.71E-03	1.92E-06	6.92E-07	1.83E-06	7.08E-07	3.7160E-03
520158.43	4258779.5	194741.8635	2.93539	0.72792	2.6243	0.75473	3.70E-03	6.89E-06	1.49E-06	6.16E-06	1.49E-06	3.7177E-03
520422.26	4258443.39	194401.6065	0.2634	0.33214	0.26221	0.3567	3.70E-03	6.18E-07	6.81E-07	6.16E-07	7.02E-07	3.6978E-03
520295.07	4258422.99	194161.071	0.39858	0.72086	0.39837	0.7965	3.69E-03	9.36E-07	1.48E-06	9.35E-07	1.57E-06	3.6956E-03
520296.05	4258812.94	194111.846	0.76305	0.32425	0.72932	0.34532	3.69E-03	1.79E-06	6.65E-07	1.71E-06	6.80E-07	3.6946E-03
520246.54	4258813.02	194066.3475	1.10517	0.39663	1.04359	0.42505	3.69E-03	2.59E-06	8.13E-07	2.45E-06	8.37E-07	3.6955E-03
520335.64	4258802.87	193919.9266	0.58328	0.28211	0.56043	0.30093	3.69E-03	1.37E-06	5.79E-07	1.32E-06	5.92E-07	3.6899E-03
520402.71	4258433.33	193422.1501	0.27762	0.36874	0.27722	0.39741	3.68E-03	6.52E-07	7.56E-07	6.51E-07	7.82E-07	3.6794E-03
520353.8	4258423.18	192785.843	0.32278	0.49193	0.32321	0.53277	3.66E-03	7.58E-07	1.01E-06	7.59E-07	1.05E-06	3.6681E-03
520285.28	4258422.96	192546.662	0.41332	0.77507	0.41402	0.85974	3.66E-03	9.70E-07	1.59E-06	9.72E-07	1.69E-06	3.6652E-03
520441.74	4258473.45	192412.8908	0.25395	0.29529	0.25184	0.31591	3.66E-03	5.96E-07	6.06E-07	5.91E-07	6.22E-07	3.6598E-03
520236.64	4258813.03	192406.3744	1.20554	0.41461	1.13412	0.4447	3.66E-03	2.83E-06	8.50E-07	2.66E-06	8.75E-07	3.6645E-03
520177.2	4258793.13	192359.1079	2.25003	0.60857	2.04536	0.64265	3.66E-03	5.28E-06	1.25E-06	4.80E-06	1.27E-06	3.6690E-03
520197.02	4258803.1	191554.9598	1.77648	0.52204	1.63785	0.55739	3.64E-03	4.17E-06	1.07E-06	3.85E-06	1.10E-06	3.6513E-03
520305.95	4258812.92	191547.2	0.71244	0.31148	0.68294	0.33162	3.64E-03	1.67E-06	6.39E-07	1.60E-06	6.53E-07	3.6455E-03
520363.59	4258423.21	191338.3338	0.31222	0.46434	0.31276	0.50201	3.64E-03	7.33E-07	9.52E-07	7.34E-07	9.88E-07	3.6404E-03
520216.73	4258432.75	190597.7787	0.55157	1.44442	0.56698	1.63709	3.62E-03	1.29E-06	2.96E-06	1.33E-06	3.22E-06	3.6317E-03
520275.49	4258422.93	190546.8685	0.42873	0.83705	0.43084	0.9318	3.62E-03	1.01E-06	1.72E-06	1.01E-06	1.83E-06	3.6275E-03
520226.74	4258813.05	190151.7661	1.32287	0.43432	1.23901	0.46592	3.61E-03	3.11E-06	8.91E-07	2.91E-06	9.17E-07	3.6223E-03
520149.58	4258775.84	189356.0931	3.38696	0.78499	3.00326	0.80261	3.60E-03	7.95E-06	1.61E-06	7.05E-06	1.58E-06	3.6175E-03
520436.01	4258704.14	189056.4673	0.31698	0.23785	0.30691	0.251	3.59E-03	7.44E-07	4.88E-07	7.21E-07	4.94E-07	3.5961E-03
520365.32	4258782.82	188808.2097	0.48746	0.2568	0.46983	0.27391	3.59E-03	1.14E-06	5.27E-07	1.10E-06	5.39E-07	3.5922E-03
520373.38	4258423.24	188580.9163	0.30203	0.43911	0.3027	0.47394	3.58E-03	7.09E-07	9.01E-07	7.11E-07	9.33E-07	3.5878E-03
520265.7	4258422.9	188322.7936	0.44481	0.90838	0.44882	1.01438	3.58E-03	1.04E-06	1.86E-06	1.05E-06	2.00E-06	3.5856E-03
520177.54	4258442.63	187623.7884	0.65717	2.33796	0.68318	2.69635	3.57E-03	1.54E-06	4.79E-06	1.60E-06	5.31E-06	3.5796E-03
520345.54	4258802.85	187559.4304	0.54951	0.27108	0.52846	0.28911	3.57E-03	1.29E-06	5.56E-07	1.24E-06	5.69E-07	3.5688E-03
520216.84	4258813.07	187055.5774	1.4594	0.45568	1.35981	0.48841	3.56E-03	3.43E-06	9.35E-07	3.19E-06	9.61E-07	3.5641E-03
520315.85	4258812.9	186296.7234	0.66429	0.2979	0.63655	0.31725	3.54E-03	1.56E-06	6.11E-07	1.49E-06	6.25E-07	3.5455E-03
520255.91	4258422.87	185610.8294	0.46134	0.98995	0.46765	1.10865	3.53E-03	1.08E-06	2.03E-06	1.10E-06	2.18E-06	3.5345E-03
520412.5	4258433.36	185599.7911	0.26877	0.3509	0.26818	0.37761	3.53E-03	6.31E-07	7.20E-07	6.30E-07	7.43E-07	3.5306E-03
520107.24	4258731.68	185526.4428	9.09798	1.35343	7.68892	1.26197	3.53E-03	2.14E-05	2.78E-06	1.81E-05	2.48E-06	3.5712E-03
520394.99	4258772.77	185488.7999	0.40896	0.23983	0.39515	0.25495	3.53E-03	9.60E-07	4.92E-07	9.28E-07	5.02E-07	3.5287E-03
520206.94	4258432.72	185320.941	0.57034	1.61671	0.58823	1.83868	3.52E-03	1.34E-06	3.32E-06	1.38E-06	3.62E-06	3.5323E-03
520138.33	4258462.5	184931.8488	0.81745	4.47154	0.88319	5.34522	3.52E-03	1.92E-06	9.17E-06	2.07E-06	1.05E-05	3.5388E-03
520187.12	4258803.12	184864.8822	1.99526	0.55126	1.82697	0.5852	3.51E-03	4.68E-06	1.13E-06	4.29E-06	1.15E-06	3.5252E-03
520140.73	4258772.19	184062.2678	4.01535	0.85006	3.51661	0.85345	3.50E-03	9.43E-06	1.74E-06	8.26E-06	1.68E-06	3.5198E-03
520167.3	4258793.15	183624.4795	2.59056	0.64743	2.3135	0.67544	3.49E-03	6.08E-06	1.33E-06	5.48E-06	1.33E-06	3.5046E-03
520411.07	4258756.11	183390.5332	0.37236	0.23475	0.36004	0.24865	3.49E-03	8.74E-07	4.81E-07	8.45E-07	4.89E-07	3.4886E-03
520385.11	4258782.79	183112.6465	0.43397	0.24332	0.41893	0.25912	3.48E-03	1.02E-06	4.99E-07	9.84E-07	5.10E-07	3.4837E-03
520428.73	4258728.78	183060.0379	0.33535	0.23381	0.32447	0.2466	3.48E-03	7.87E-07	4.80E-07	7.62E-07	4.85E-07	3.4827E-03
520246.13	4258422.84	182472.2597	0.47819	1.08341	0.48707	1.21672	3.47E-03	1.12E-06	2.22E-06	1.14E-06	2.40E-06	3.4754E-03
520206.94	4258813.08	182365.2289	1.61136	0.47811	1.49342	0.51146	3.47E-03	3.78E-06	9.81E-07	3.51E-06	1.01E-06	3.4757E-03
520325.75	4258812.89	182321.7009	0.62409	0.28635	0.59869	0.30498	3.47E-03	1.47E-06	5.87E-07	1.41E-06	6.00E-07	3.4697E-03
520392.95	4258423.3	182104.9377	0.2832	0.39288	0.28343	0.42344	3.46E-03	6.65E-07	8.06E-07	6.65E-07	8.34E-07	3.4645E-03
520441.9	4258690.08	182084.2742	0.30469	0.23783	0.29524	0.25126	3.46E-03	7.15E-07	4.88E-07	6.93E-07	4.95E-07	3.4635E-03
520432.05	4258443.42	181597.4737	0.25502	0.31715	0.25371	0.33999	3.45E-03	5.99E-07	6.50E-07	5.96E-07	6.69E-07	3.4544E-03
520121.74	4258754.36	180686.7276	6.0718	1.06469	5.19645	1.02563	3.43E-03	1.43E-05	2.18E-06	1.22E-05	2.02E-06	3.4652E-03
520266.36	4258822.98	180554.3231	0.95179	0.35353	0.90379	0.37807	3.43E-03	2.23E-06	7.25E-07	2.12E-06	7.44E-07	3.4378E-03
520276.26	4258822.97	180362.9385	0.88393	0.33997	0.84131	0.36299	3.43E-03	2.08E-06	6.97E-07	1.98E-06	7.15E-07	3.4338E-03
520355.44	4258802.84	180360.7595	0.51855	0.26062	0.49906	0.27791	3.43E-03	1.22E-06	5.35E-07	1.17E-06	5.47E-07	3.4318E-03
520158.65	4258789.58	180244.5667	2.9486	0.69461	2.63478	0.71656	3.43E-03	6.92E-06	1.42E-06	6.19E-06	1.41E-06	3.4421E-03
520256.46	4258823	180052.9254	1.02791	0.36787	0.9734	0.39397	3.42E-03	2.41E-06	7.54E-07	2.29E-06	7.76E-07	3.4287E-03
520286.16	4258822.95	179581.7543	0.82329	0.32711	0.78517	0.34875	3.41E-03	1.93E-06	6.71E-07	1.84E-06	6.87E-07	3.4187E-03
520197.15	4258432.69	179375.9124	0.58818	1.82128	0.60795	2.08036	3.41E-03	1.38E-06	3.74E-06	1.43E-06	4.10E-06	3.4203E-03
520246.56	4258823.02	178911.4446	1.11408	0.38319	1.05167	0.41085	3.40E-03	2.62E-06	7.86E-07	2.47E-06	8.09E-07	3.4075E-03
520236.34	4258422.81	178899.4429	0.49521	1.19195	0.50678	1.34212	3.40E-03	1.16E-06	2.44E-06	1.19E-06	2.64E-06	3.4080E-03
520375.22	4258792.8	178707.6055	0.46125	0.24713	0.44474	0.26342	3.40E-03	1.08E-06	5.07E-07	1.04E-06	5.19E-07	3.4001E-03
520324.47	4258413.08	178558.975	0.35132	0.59455	0.35068	0.65067	3.39E-03	8.25E-07	1.22E-06	8.23E-07	1.28E-06	3.3982E-03
520167.75	4258440.59	178540.1828	0.67267	2.70649	0.70409	3.14241	3.39E-03	1.58E-06	5.55E-06	1.65E-06	6.19E-06	3.4087E-03
520334.25	4258413.11	178513.645	0.33964	0.55841	0.33896	0.60909	3.39E-03	7.97E-07	1.15E-06	7.96E-07	1.20E-06	3.3972E-03
520296.06	4258822.94	178423.8032	0.76924	0.31493	0.73501	0.33537	3.39E-03	1.81E-06	6.46E-07	1.73E-06	6.60E-07	3.3964E-03
520314.68	4258413.05	178189.4228	0.36353	0.6349	0.36323	0.69712	3.39E-03	8.53E-07	1.30E-06	8.53E-07	1.37E-06	3.3914E-03
520344.04	4258413.14	178031.8951	0.32842	0.52604	0.32797	0.57184	3.38E-03	7.71E-07	1.08E-06	7.70E-07	1.13E-06	3.3878E-03
520177.22	4258803.13	177491.675	2.26229	0.58368	2.05577	0.61415	3.37E-03	5.31E-06	1.20E-06	4.83E-06	1.21E-06	3.3863E-03
520335.65	4258812.87	177422.0426	0.58695	0.2753	0.56361	0.29315	3.37E-03	1.38E-06	5.64E-07	1.32E-06	5.77E-07	3.3763E-03
520236.66	4258823.03	177393.4506	1.21438	0.40017	1.14205	0.42932	3.37E-03	2.85E-06	8.21E-07	2.68E-06	8.45E-07	3.3791E-03
520128.51	4258472.47	177073.1248	0.89933	5.50615	0.98413	6.65546	3.37E-03	2.11E-06	1.13E-05	2.31E-06	1.31E-05	3.3947E-03
520197.04	4258813.1	177018.7617	1.79251	0.50297	1.65129	0.53586	3.36E-03	4.21E-06	1.03E-06	3.88E-06	1.05E-06	3.3750E-03
520422.29	4258433.39	176888.9115	0.26043	0.3349	0.25967	0.35974	3.36E-03	6.11E-07	6.87E-07	6.10E-07	7.08E-07	3.3651E-03
520295.1	4258412.99	176221.1654	0.38967	0.72871	0.39092	0.80597	3.35E-03	9.15E-07	1.49E-06	9.18E-07	1.59E-06	3.3546E-03
520305.97	4258822.92	176139.1127	0.71918	0.30297	0.6882	0.32239	3.35E-03	1.69E-06	6.21E-07	1.62E-06	6.35E-07	3.3526E-03
520402.74	4258423.33	176057.6708	0.27412	0.37259	0.2742	0.40118	3.35E-03	6.44E-07	7.64E-07	6.44E-07	7.90E-07	3.3494E-03
520149.99	4258786	175979.8141	3.3971	0.74655	3.00982	0.75915	3.35E-03	7.98E-06	1.53E-06	7.07E-06	1.49E-06	3.3631E-03
520353.83	4258413.18	175928.4883	0.31752	0.49677	0.31759	0.5381	3.34E-03	7.45E-07	1.02E-06	7.46E-07	1.06E-06	3.3477E-03
520226.76	1.33823E-05	175469.4524	1.33266	0.41906	1.24767	0.44949	3.34E-03	3.13E-06	8.59E-07	2.93E-06	8.85E-07	3.3432E-03
520226.55	4258422.78	174863.0099	0.51212	1.31832	0.5262	1.48842	3.32E-03	1.20E-06	2.70E-06	1.24E-06	2.93E-06	3.3319E-03
520448.95	4258466.52	174759.6949	0.24639	0.28787	0.2444	0.30754	3.32E-03	5.78E-07	5.90E-07	5.74E-07	6.05E-07	3.3242E-03
520285.31	4258412.96	174654.1498	0.4035	0.78409	0.40608	0.87038	3.32E-03	9.47E-07	1.61E-06	9.53E-07	1.71E-06	3.3251E-03
520363.62	4258413.21	174273.3874	0.30729	0.46916	0.30762	0.50697	3.31E-03	7.21E-07	9.62E-07	7.22E-07	9.98E-07	3.3160E-03
520216.86	4258823.07	172748.7269	1.46987	0.43952	1.36803	0.47074	3.28E-03	3.45E-06	9.01E-07	3.21E-06	9.27E-07	3.2921E-03
520275.52	4258412.93	172748.4598	0.41784	0.84773	0.42215	0.94393	3.28E-03	9.81E-07	1.74E-06	9.91E-07	1.86E-06	3.2892E-03
520187.36	4258432.66	172682.1728	0.60461	2.0672	0.62643	2.3736	3.28E-03	1.42E-06	4.24E-06	1.47E-06	4.67E-06	3.2942E-03
520365.34	4258802.82	172275.3653	0.48991	0.25067	0.47175	0.26722	3.27E-03	1.15E-06	5.14E-07	1.11E-06	5.26E-07	3.2779E-03
520373.41	4258413.24	172051.1507	0.29751	0.44371	0.29805	0.47851	3.27E-03	6.98E-07	9.10E-07	7.00E-07	9.42E-07	3.2736E-03
520345.55	4258812.85	171701.9901	0.55278	0.26454	0.53123	0.28183	3.26E-03	1.30E-06	5.43E-07	1.25E-06	5.55E-07	3.2674E-03
520141.34	4258782.43	171316.7144	3.99191	0.80372	3.499	0.80306	3.26E-03	9.37E-06	1.65E-06	8.21E-06	1.58E-06	3.2772E-03
520315.87	4258822.9	171206.8967	0.66902	0.29001	0.64089	0.30857	3.25E-03	1.57E-06	5.95E-07	1.50E-06	6.07E-07	3.2586E-03
520187.14	4258813.12	171038.6619	2.0109	0.53058	1.83994	0.5615	3.25E-03	4.72E-06	1.09E-06	4.32E-06	1.11E-06	3.2624E-03
520112.64	4258750.6	170812.8866	7.73874	1.14697	6.58766	1.0782	3.25E-03	1.82E-05	2.35E-06	1.55E-05	2.

520226.78	4258833.05	162372.7783	1.34136	0.40467	1.25535	0.43391	3.09E-03	3.15E-06	8.30E-07	2.95E-06	8.54E-07	3.0942E-03
520305.98	4258832.92	162337.9309	0.72446	0.29454	0.69304	0.31342	3.09E-03	1.70E-06	6.04E-07	1.63E-06	6.17E-07	3.0903E-03
520427.16	4258749.44	162079.8507	0.34995	0.22567	0.3324	0.23827	3.08E-03	8.07E-07	4.63E-07	7.80E-07	4.69E-07	3.0834E-03
520422.32	4258423.39	161721.2167	0.2574	0.33785	0.25712	0.36279	3.07E-03	6.04E-07	6.93E-07	6.04E-07	7.14E-07	3.0766E-03
520353.86	4258403.18	161425.883	0.31233	0.50109	0.31211	0.54328	3.07E-03	7.33E-07	1.03E-06	7.33E-07	1.07E-06	3.0720E-03
520236.37	4258412.81	161287.0097	0.4776	1.20912	0.49059	1.36027	3.07E-03	1.12E-06	2.48E-06	1.15E-06	2.68E-06	3.0732E-03
520447.78	4258699.98	161212.7576	0.2996	0.22936	0.28994	0.24187	3.06E-03	7.03E-07	4.70E-07	6.81E-07	4.76E-07	3.0667E-03
520114.17	4258761.23	161131.605	7.43267	1.06019	6.346	0.99672	3.06E-03	1.74E-05	2.17E-06	1.49E-05	1.96E-06	3.0993E-03
520402.77	4258413.33	161116.7456	0.7706	0.37655	0.27097	0.40492	3.06E-03	6.35E-07	7.72E-07	6.36E-07	7.97E-07	3.0654E-03
520295.13	4258402.99	160729.2521	0.3808	0.75683	0.38383	0.8154	3.06E-03	8.94E-07	1.51E-06	9.01E-07	1.61E-06	3.0601E-03
520216.87	4258833.07	160163.0211	1.48145	0.4246	1.37893	0.45427	3.04E-03	3.48E-06	8.71E-07	3.24E-06	8.94E-07	3.0529E-03
520141.83	4258792.63	159775.9844	3.97828	0.7621	3.48837	0.75788	3.04E-03	9.34E-06	1.56E-06	8.19E-06	1.49E-06	3.0576E-03
520197.18	4258422.69	159541.8069	0.55917	1.84696	0.57814	2.10875	3.03E-03	1.31E-06	3.79E-06	1.36E-06	4.15E-06	3.0432E-03
520363.65	4258403.21	159531.3285	0.30239	0.47358	0.30246	0.51182	3.03E-03	7.10E-07	9.71E-07	7.10E-07	1.01E-06	3.0358E-03
520285.34	4258402.96	159193.7486	0.39371	0.79378	0.39828	0.88119	3.03E-03	9.24E-07	1.63E-06	9.35E-07	1.73E-06	3.0312E-03
520124.03	4258775.29	159146.0857	5.7937	0.92604	4.98121	0.88817	3.03E-03	1.36E-05	1.90E-06	1.17E-05	1.75E-06	3.0540E-03
520436.03	4258735.77	158942.7222	0.32625	0.22491	0.31536	0.23699	3.02E-03	7.66E-07	4.61E-07	7.40E-07	4.67E-07	3.0236E-03
520187.16	4258823.12	158731.8014	2.02555	0.51127	1.85211	0.53929	3.02E-03	4.76E-06	1.05E-06	4.35E-06	1.06E-06	3.0284E-03
520365.35	4258812.82	158366.3472	0.49307	0.24513	0.47438	0.26106	3.01E-03	1.16E-06	5.03E-07	1.11E-06	5.14E-07	3.0135E-03
520315.88	4258832.9	158232.7206	0.67475	0.28265	0.64622	0.3006	3.01E-03	1.58E-06	5.80E-07	1.52E-06	5.92E-07	3.0120E-03
520167.34	4258813.15	158102.953	2.62789	0.59619	2.36368	0.61634	3.01E-03	6.17E-06	1.22E-06	5.55E-06	1.21E-06	3.0194E-03
520345.57	4258822.85	157987.8639	0.55628	0.25831	0.53427	0.27483	3.00E-03	1.31E-06	5.30E-07	1.25E-06	5.41E-07	3.0067E-03
520373.44	4258403.24	157685.0845	0.29299	0.44797	0.29326	0.483	3.00E-03	6.88E-07	9.19E-07	6.88E-07	9.51E-07	3.0006E-03
520226.58	4258412.78	157379.4303	0.49225	1.33715	0.50691	1.50844	2.99E-03	1.16E-06	2.74E-06	1.19E-06	2.97E-06	2.9996E-03
520275.55	4258402.93	157313.0647	0.40691	0.85871	0.4133	0.95587	2.99E-03	9.55E-07	1.76E-06	9.70E-07	1.88E-06	2.9958E-03
520451.31	4258691.54	157296.8495	0.29278	0.22925	0.28349	0.24191	2.99E-03	6.87E-07	4.70E-07	6.66E-07	4.76E-07	2.9922E-03
520410.65	4258776.29	156891.8701	0.37934	0.22539	0.36622	0.23904	2.98E-03	8.91E-07	4.62E-07	8.60E-07	4.71E-07	2.9849E-03
520395.02	4258792.77	156600.8931	0.41499	0.22968	0.4002	0.24431	2.98E-03	9.74E-07	4.71E-07	9.40E-07	4.81E-07	2.9796E-03
520167.78	4258432.59	156542.6314	0.63036	2.73836	0.66219	3.1838	2.98E-03	1.48E-06	5.62E-06	1.55E-06	6.27E-06	2.9905E-03
520206.97	4258833.08	156386.236	1.63337	0.44502	1.51231	0.47449	2.97E-03	3.83E-06	9.13E-07	3.55E-06	9.34E-07	2.9819E-03
520158.97	4258809.7	155740.5579	2.97708	0.63577	2.65712	0.64928	2.96E-03	6.99E-06	1.30E-06	6.24E-06	1.28E-06	2.9762E-03
520412.56	4258413.36	155285.7442	0.26227	0.35794	0.26255	0.38448	2.95E-03	6.16E-07	7.34E-07	6.16E-07	7.57E-07	2.9544E-03
520266.4	4258842.98	155169.1058	0.96982	0.33221	0.92032	0.3557	2.95E-03	2.28E-06	6.81E-07	2.16E-06	7.00E-07	2.9553E-03
520265.76	4258402.9	155076.7948	0.42032	0.93265	0.42866	1.04078	2.95E-03	9.87E-07	1.91E-06	1.01E-06	2.05E-06	2.9537E-03
520256.49	4258843	155005.8279	1.0485	0.34551	0.99208	0.37032	2.95E-03	2.46E-06	7.09E-07	2.33E-06	7.29E-07	2.9526E-03
520325.78	4258832.89	154878.9495	0.6335	0.2723	0.60727	0.28947	2.94E-03	1.49E-06	5.58E-07	1.43E-06	5.70E-07	2.9480E-03
520276.3	4258842.97	154621.7359	0.89926	0.31966	0.85547	0.34181	2.94E-03	2.11E-06	6.56E-07	2.01E-06	6.73E-07	2.9445E-03
520385.14	4258802.79	154372.2649	0.4398	0.23287	0.42371	0.24791	2.93E-03	1.03E-06	4.78E-07	9.95E-07	4.88E-07	2.9373E-03
520246.59	4258843.02	154194.1161	1.13672	0.35969	1.07197	0.38576	2.93E-03	2.67E-06	7.38E-07	2.52E-06	7.59E-07	2.9376E-03
520286.2	4258842.95	153511.0574	0.83603	0.30785	0.797	0.32868	2.92E-03	1.96E-06	6.31E-07	1.87E-06	6.47E-07	2.9231E-03
520187.39	4258422.66	153131.1284	0.57229	2.09389	0.59361	2.40414	2.91E-03	1.34E-06	4.29E-06	1.39E-06	4.73E-06	2.9225E-03
520216.79	4258412.75	153005.3456	0.50633	1.48665	0.52215	1.68252	2.91E-03	1.19E-06	3.05E-06	1.23E-06	3.31E-06	2.9171E-03
520177.25	4258823.13	152950.1348	2.2935	0.54014	2.08145	0.56381	2.91E-03	5.38E-06	1.11E-06	4.89E-06	1.11E-06	2.9198E-03
520432.11	4258423.42	152715.0051	0.24953	0.32239	0.24904	0.34568	2.90E-03	5.86E-07	6.61E-07	5.85E-07	6.80E-07	2.9053E-03
520393.02	4258403.3	152650.5683	0.27549	0.40122	0.27581	0.43145	2.90E-03	6.47E-07	8.23E-07	6.48E-07	8.49E-07	2.9046E-03
520150.6	4258806.24	152594.4842	3.40298	0.67815	3.01447	0.68275	2.90E-03	7.99E-06	1.39E-06	7.08E-06	1.34E-06	2.9183E-03
520118.72	4258472.44	152517.7663	0.88627	0.78298	0.98015	8.6398	2.90E-03	2.08E-06	1.45E-05	2.30E-06	1.70E-05	2.9350E-03
520255.98	4258402.87	152479.5048	0.43378	1.01708	0.44409	1.13767	2.90E-03	1.02E-06	2.09E-06	1.04E-06	2.24E-06	2.9047E-03
520105.32	4258757.57	152319.2289	9.64774	1.12318	8.28691	1.03584	2.90E-03	2.26E-05	2.30E-06	1.95E-05	2.04E-06	2.9418E-03
520355.47	4258822.84	152261.0484	0.5247	0.24869	0.50422	0.26459	2.89E-03	1.23E-06	5.10E-07	1.18E-06	5.21E-07	2.8977E-03
520296.1	4258842.93	152128.5715	0.78016	0.29684	0.74504	0.31643	2.89E-03	1.83E-06	6.09E-07	1.75E-06	6.23E-07	2.8965E-03
520197.07	4258833.1	152076.1735	1.81341	0.46736	1.66914	0.49548	2.89E-03	4.26E-06	9.59E-07	3.92E-06	9.75E-07	2.9008E-03
520115.37	4258771.71	151797.9818	7.19456	0.98609	6.16503	0.92653	2.89E-03	1.69E-05	2.02E-06	1.45E-05	1.82E-06	2.9206E-03
520335.69	4258833.87	150912.5228	0.59563	0.2623	0.5714	0.2788	2.87E-03	1.40E-06	5.38E-07	1.34E-06	5.49E-07	2.8724E-03
520375.26	4258812.8	150743.3246	0.46671	0.23626	0.44915	0.25151	2.87E-03	1.10E-06	4.85E-07	1.05E-06	4.95E-07	2.8685E-03
520403.63	4258789.21	150703.0679	0.39625	0.22455	0.38219	0.23857	2.86E-03	9.30E-07	4.61E-07	8.97E-07	4.70E-07	2.8674E-03
520306	4258842.92	150059.4357	0.7292	0.28624	0.69737	0.30469	2.85E-03	1.71E-06	5.87E-07	1.64E-06	6.00E-07	2.8569E-03
520334.32	4258393.11	149836.3786	0.32734	0.56833	0.32764	0.6214	2.85E-03	7.68E-07	1.17E-06	7.69E-07	1.22E-06	2.8520E-03
520324.53	4258393.08	149731.3687	0.33795	0.60557	0.33899	0.66426	2.85E-03	7.93E-07	1.24E-06	7.96E-07	1.31E-06	2.8503E-03
520344.1	4258393.14	149561.6051	0.3171	0.53508	0.31699	0.583	2.84E-03	7.44E-07	1.10E-06	7.44E-07	1.15E-06	2.8466E-03
520246.19	4258402.84	149510.9677	0.44716	1.11435	0.45927	1.24924	2.84E-03	1.05E-06	2.29E-06	1.08E-06	2.46E-06	2.8488E-03
520124.83	4258785.61	149407.023	5.70462	0.86974	4.91249	0.83206	2.84E-03	1.34E-05	1.78E-06	1.15E-05	1.64E-06	2.8683E-03
520314.74	4258393.05	149259.6493	0.34894	0.64708	0.351	0.71199	2.84E-03	8.19E-07	1.33E-06	8.24E-07	1.40E-06	2.8415E-03
520422.35	4258413.39	148739.318	0.25437	0.34109	0.25452	0.36593	2.83E-03	5.97E-07	7.00E-07	5.98E-07	7.20E-07	2.8299E-03
520353.89	4258393.18	148320.4757	0.3071	0.50536	0.307	0.54844	2.82E-03	7.21E-07	1.04E-06	7.21E-07	1.08E-06	2.8229E-03
520402.81	4258403.33	148209.2501	0.26704	0.38042	0.26744	0.40858	2.82E-03	6.27E-07	7.80E-07	6.28E-07	8.04E-07	2.8200E-03
520207	4258412.72	148124.6982	0.51959	1.66261	0.53638	1.88887	2.82E-03	1.22E-06	3.41E-06	1.26E-06	3.72E-06	2.8252E-03
520089.13	4258736.23	147759.5812	14.58609	1.353	16.51823	1.22199	2.81E-03	3.42E-05	2.77E-06	3.88E-05	2.41E-06	2.8868E-03
520187.17	4258833.12	147742.7018	2.04028	0.49331	1.86429	0.51852	2.81E-03	4.79E-06	1.01E-06	4.38E-06	1.02E-06	2.8195E-03
520295.16	4258392.99	147251.6963	0.37198	0.74494	0.37672	0.82458	2.80E-03	8.73E-07	1.53E-06	8.84E-07	1.62E-06	2.8039E-03
520167.35	4258823.15	147232.621	2.64254	0.57292	2.37578	0.58956	2.80E-03	6.20E-06	1.18E-06	5.58E-06	1.16E-06	2.8127E-03
520363.68	4258393.21	146970.5411	0.29761	0.47749	0.29752	0.51653	2.79E-03	6.99E-07	9.79E-07	6.98E-07	1.02E-06	2.7970E-03
520158	4258432.56	146868.2895	0.63772	3.208	0.67847	3.75427	2.79E-03	1.50E-06	6.58E-06	1.59E-06	7.39E-06	2.8088E-03
520128.57	4258452.47	146806.0032	0.74182	5.6188	0.81118	6.77607	2.79E-03	1.74E-06	1.15E-05	1.90E-06	1.33E-05	2.8190E-03
520365.37	4258822.82	146433.9009	0.49672	0.24002	0.47749	0.25536	2.78E-03	1.17E-06	4.92E-07	1.12E-06	5.03E-07	2.7867E-03
520236.4	4258402.81	146149.1926	0.46027	1.22624	0.47378	1.37808	2.78E-03	1.08E-06	2.51E-06	1.11E-06	2.71E-06	2.7855E-03
520345.59	4258832.85	146123.3206	0.56026	0.25245	0.5378	0.2683	2.78E-03	1.32E-06	5.18E-07	1.26E-06	5.28E-07	2.7812E-03
520177.6	4258422.63	145965.4693	0.58334	2.3962	0.60919	2.7671	2.77E-03	1.37E-06	4.91E-06	1.43E-06	5.45E-06	2.7877E-03
520285.37	4258392.96	145733.2519	0.3839	0.80313	0.39026	0.89145	2.77E-03	9.01E-07	1.65E-06	9.16E-07	1.75E-06	2.7753E-03
520092.8	4258745.07	145700.3488	14.41568	1.25954	13.64284	1.1415	2.77E-03	3.38E-05	2.58E-06	3.20E-05	2.25E-06	2.8402E-03
520447.67	4258724.17	145607.6892	0.30628	0.22066	0.29593	0.23215	2.77E-03	7.19E-07	4.53E-07	6.95E-07	4.57E-07	2.7701E-03
520133.86	4258799.33	145336.9438	4.70309	0.77211	4.08184	0.7506	2.76E-03	1.10E-05	1.58E-06	9.58E-06	1.48E-06	2.7863E-03
520373.47	4258393.24	145177.8448	0.28851	0.45185	0.28854	0.48738	2.76E-03	6.77E-07	9.27E-07	6.77E-07	9.59E-07	2.7628E-03
520158.34	4258819.43	145164.6811	3.02864	0.61309	2.69901	0.62224	2.76E-03	7.11E-06	1.26E-06	6.34E-06	1.22E-06	2.7752E-03
520395.04	4258802.77	144655.2246	0.41761	0.22481	0.40231	0.23911	2.75E-03	9.80E-07	4.61E-07	9.44E-07	4.71E-07	2.7525E-03
520106.71	4258768.14	144267.2424	9.24548	1.04026	7.94914	0.96037	2.74E-03	2.17E-05	2.13E-06	1.87E-05	1.89E-06	2.7867E-03
520412.23	4258785.64	144109.9565	0.37892	0.2198	0.36547	0.23318	2.74E-03	8.90E-07	4.51E-07	8.58E-07	4.59E-07	2.7419E-03
520256.51	4258853	143994.6232	1.05529	0.33473	0.99821	0.3589	2.74E-03	2.48E-06	6.87E-07	2.34E-06	7.06E-07	2.7433E-03
520275.58	4258392.93	143886.9739	0.39597	0.86949	0.40407	0.96736	2.74E-03	9.30E-07	1.78E-06	9.49E-07	1.90E-06	2.7406E-03
520246.41	4258852.98	143881.1911	0.9751	0.32184	0.92508	0.34479	2.73E-03	2.29E-06	6.60E-07	2.17E-06	6.79E-07	2.7407E-03
520246.61	4258853.02	143460.7105	1.14511	0.34847	1.07948	0.37376	2.73E-03	2.69E-06	7.15E-07	2.53E-06	7.36E-07	2.7336E-03
520276.31	4258852.97	143365.0733	0.90441	0.30987	0.86017	0.33157	2.73E-03	2.12E-06	6.36E-07	2.02E-06	6.53E-07	2.7305E-03
520412.59	4258403.36	143282.624	0.25903	0.36178	0.25948	0.38806	2.72E-03	6.08E-07	7.42E-07	6.09E-07	7.64E-07	2.7263E-03
520118.75	4258462.44	143271.7126	0.79869	7.14588	0.87893	8.69378	2.72E-03	1.88E-06	1.47E-05	2.06E-06	1.71E-05	2.7590E-03
520116.33	4258782.1	143012.7395	7.01585	0.92162	6.0282	0.86517	2.72E-03	1.65E-05	1.89E-06	1.42E-05	1.70E-06	2.7526E-03
520385.16	4258812.79	142821.9101	0.44286	0.22812	0.42623	0.24273	2.71E-03	1.04E-06	4.68E-07	1.00E-06	4.78E-07	2.7178E-03
520177.27	4258833.13	142729.3566	2.31241	0.52096	2.09661	0.54146	2.71E-03	5.43E-06	1.07E-06	4.92E-06	1.07E-06	2.7255E-03
520197.21	4258412.69	142672.4125	0.53165	1.87099	0.55001	2.13525	2.71E-03	1.25E-06	3.84E-06	1.29E-06	4.20E-06	2.7225E-03
520138.39	4258442.5	142657.91	0.68865	4.57433	0.74783	5.43922	2.71E-03	1.62E-06	9.38E-06	1.76E-06	1.07E-05	2.7351E-03
520454.54	4258707.77	142606.7493	0.29284	0.22125	0.28307	0.23294	2.71E-03	6.87E-07	4.54E-07	6.65E-07	4.59E-07	2.7130E-03
520286.21	4258852.95	142430.0322	0.84145	0.29869	0.80198	0.31916	2.71E-03	1.98E-06	6.13E-07	1.88E-06	6.28E-07	2.7124E-03
520434.59	4258756.37	142410.519	0.33416	0.21726	0.32269	0.22918	2.71E-03	7.85E-07	4.46E-07	7.58E-07	4.51E-07	2.7094E-03
520149.33	4258815.71	142385.9726	3.51531	0.6561	3.10369	0.65532	2.71E-03	8.25E-06	1.35E-06	7.29E-06	1.29E-06	2.7247E-03
520226.61	4258402.78	142367.2333	0.47287	1.35524	0.48729	1.52767	2.71E-03	1.11E-06	2.78E-06	1.14E-06	3.01E-06	2.7142E-03
520236.71	4258853.03	142269.1917	1.24608	0.36321	1.17011	0.3894	2.70E-03	2.93E-06	7.45E-07	2.75E-06	7.67E-07	2.7115E-03
520426.3	4258769.81	142267.4914	0.35103	0.21718	0.33877	0.22961	2.70E-03	8.24E-07	4.45E-07	7.95E-07	4.52E-07	2.7068E-03
520265.8	4258392.9	141700.6337	0.40808	0.94469	0.41788	1.05338	2.69E-03	9.58E-07	1.94E-06	9.81E-07	2.07E-06	2.6994E-03
520432.14	4258413.42	141174.8786	0.24675	0.32547	0.24673	0.34871	2.68E-03	5.79E-07	6.68E-07	5.79E-07	6.86E-07	2.6860E-03
520462.09	4258480.02	141035.9007	0.23838	0.2691	0.23593	0.28703	2.68E-03	5.60E-07	5.52E-07	5.54E-07	5.65E-07	2.6831E-03
520355.49	4258832.84	141023.7697	0.52843	0.2433	0.50747	0.25856	2.68E-03	1.24E-06	4.99E-07	1.19E-06	5.09E-07	2.6840E-03
520296.11	4258852.93	140917.674	0.78436	0.28806	0.74891	0.30732	2.68E-03	1.84E-06	5.91E-07	1.76E-06	6.05E-07	2.6834E-03
520393.05	4258393.3	140791.5988	0.27164	0.40505	0.27171	0.43536	2.68E-03	6.38E-07	8.31E-07	6.38E-07	8.57E-07	2.6792E-03
520226.81	4258853.05	140481.4378	1.36095	0.37912	1.27246	0.40583	2.67E-03	3.20E-06	7.78E-07	2.99E-06	7.99E-07	2.6781E-03
520403.49	4258799.27	139665.9496	0.39905	0.21989	0.38449	0.23366	2.65E-03	9.37E-07	4.51E-07	9.03E-07	4.60E-07	2.6575E-03
520443.25	4258742.78	139587.5631	0.31748	0.21657	0.30657	0.228	2.65E-03	7.45E-07	4.44E-07	7.20E-07	4.49E-07	2.6557E-03
520375.27	4258822.8	139465.0613	0.46963	0.23127	0.45156	0.24598	2.65E-03	1.10E-06	4.74E-07	1.06E-06	4.84E-07	2.6541E-03
520256.01	4258392.87	139166.3522	0.4201	1.03052	0.43144	1.15162	2.65E-03	9.86E-07	2.11E-06	1.01E-06	2.27E-06	2.6517E-03
520140.31	4258811.99	139122.2474	4.15809	0.7018	3.6317	0.68838	2.64E-03	9.76E-06	1.44E-06	8.53E-06	1.36E-06	2.6655E-03
520306.02	4258852.92	138843.0467	0.73238	0.27785	0.70031	0.29598	2.64E-03	1.72E-06	5.70E-07	1.64E-06	5.83E-07	2.6437E-03
520216.91	4258853.07	138400.9526	1.49709	0.39695	1.39255	0.42351	2.63E-03	3.51E-06	8.14E-07	3.27E-06	8.34E-07	2.6392E-03
520334.35	4258383.11	138164.5991	0.32128	0.57345	0.32263	0.62756	2.63E-03	7.54E-07	1.18E-06	7.57E-07	1.24E-06	2.6302E-03
520216.82	4258402.75	138153.5114	0.48481	1.50581	0.49989	1.7034	2.63E-03	1.14E-06	3.09E-06	1.17E-06	3.35E-06	2.6348E-03
520324.56	4258383.08	137987.982	0.33135	0.61116	0.33366	0.67092	2.62E-03	7.78E-07	1.25E-06	7.83E-07	1.32E-06	2.6270E-03
520344.14	4258383.14	137982.1753	0.31152	0.53962	0.31216	0.58858	2.62E-03	7.31E-07	1.11E-06	7.33E-07	1.16E-06	2.6265E-03
520167.82	4258422.59	137901.49	0.59132	2.76904	0.62407	3.21885	2.62E-03	1.39E-06	5.68E-06	1.47E-06	6.34E-06	2.6361E-03
520422.38	4258403.39	137622.618	0.25136	0.34464	0.25177	0.36922	2.62E-03	5.90E-07	7.07E-07	5.91E-07	7.27E-07	2.6186E-03
520167.37	4258833.15	137565.2154	2.66022	0.55139	2.38977	0.56474	2.61E-03	6.25E-06	1.13E-06	5.61E-06	1.11E-06	2.6290E-03
520314.77	4258383.05	137475.7618	0.34171	0.65347	0.34521	0.71938	2.61E-03	8.02E-07	1.34E-06	8.10E-07	1.42E-06	2.6175E-03
520402.84	4258393.33	137050.4745	0.26351	0.3842	0.26374	0.41228	2.61E-03	6.19E-07	7.88E-07	6.19E-07	8.12E-07	2.6079E-03
520353.92	4258383.18	136894.2414	0.30194	0.50946	0.30231	0.5535	2.60E-03	7.09E-07	1.04E-06	7.10E-07	1.09E-06	2.6057E-03
520187.42	4258412.66	136565.0515	0.54202	2.11907	0.56347	2.43245	2.60E-03	1.27E-06	4.35E-06	1.32E-06	4.79E-06	2.6076E-03
520098.06	4258764.57	136488.3389	12.19537	1.08323	10.84106	0.98809	2.59E-03	2.86E-05	2.22E-06	2.55E-05	1.95E-06	2.6526E-03
520461.41	4258691.37	136482.9838	0.2803	0.22107	0.27118	0.23304	2.59E-03	6.58E-07	4.53E-07	6.37E-07	4.59E-07	2.5965E-03
520315.92	4258852.9	136399.7536	0.68563	0.26819	0.65635	0.28528	2.59E-03	1.61E-06	5.50E-07	1.54E-06	5.62E-07	2.5970E-03
520107.83	4258778.6	136345.7679	8.89636	0.96813	7.67971	0.89436	2.59E-03	2.09E-05	1.99E-06	1.80E-05	1.76E-06	2.6343E-03
520246.22	4258392.84	136285.3693	0.43189	1.1292	0.44444	1.26464	2.59E-03	1.01E-06	2.32E-06	1.04E-06	2.49E-06	2.5974E-03
520345.6	4258842.85	136031.8228	0.56551	0.24719	0.54258	0.26248	2.59E-03	1.33E-06	5.07E-07	1.27E-06	5.17E-07	2.5893E-03
520207.01	4258853.08	135947.9031	1.65914	0.41677	1.53403	0.44227	2.58E-03	3.90E-06	8.55E-07	3.60E-06	8.71E-07	2.5933E-03
520148.21	4258432.53	135940.7685	0.63945	3.8176	0.68936	4.48555	2.58E-03	1.50E-06	7.83E-06	1.62E-06	8.83E-06	2.6038E-03
520363.71	4258383.21	135914.2793	0.29288	0.48118	0.29293	0.52116	2.58E-03	6.88E-07	9.87E-07	6.88E-07	1.03E-06	2.5860E-03
520365.39	4258832.82	135910.9158	0.50037	0.23508	0.48063	0.24985	2.58E-03	1.17E-06	4.82E-07	1.13E-06	4.92E-07	2.5867E-03
520158.52	4258829.5	135605.914	3.03022	0.58761	2.70086	0.59377	2.58E-03	7.11E-06	1.21E-06	6.34E-06	1.17E-06	2.5935E-03
520295.19	4258382.99	135448.0817	0.36313	0.75356	0.36947	0.83387	2.57E-03	8.53E-07	1.55E-06	8.67E-07	1.64E-06	2.5795E-03
520117.12	4258792.42	134902.8232	6.89148	0.86492	5.92646	0.81104	2.56E-03	1.62E-05	1.77E-06	1.39E-05	1.60E-06	2.5977E-03
520395.06	4258812.77	134428.9506	0.42068	0.22043	0.40485	0.23438	2.56E-03	9.88E-07	4.52E-07	9.50E-07	4.61E-07	2.5581E-03
520373.5	4258383.24	134317.1297	0.28411	0.45537	0.28408	0.49166	2.55E-03	6.67E-07	9.34E-07	6.67E-07	9.68E-07	2.5564E-03
520411.94	4258795.77	134241.0409	0.38205	0.21543	0.36813	0.22865	2.55E-03	8.97E-07	4.42E-07	8.64E-07	4.50E-07	2.5543E-03
520285.4	4258382.96	133948.8798	0.37407	0.81303	0.38194	0.90182	2.55E-03	8.78E-07	1.67E-06	8.97E-07	1.78E-06	2.5513E

520057.12	4258673.87	128011.2239	6.04053	2.19197	11.57685	1.97632	2.43E-03	1.42E-05	4.50E-06	2.72E-05	3.89E-06	2.4830E-03
520334.38	4258373.11	127864.2489	0.31527	0.57846	0.31781	0.63152	2.43E-03	7.40E-07	1.19E-06	7.46E-07	1.25E-06	2.4344E-03
520422.41	4258393.39	127823.5263	0.2483	0.34808	0.24875	0.37241	2.43E-03	5.83E-07	7.14E-07	5.84E-07	7.33E-07	2.4323E-03
520059.89	4258618.24	127798.949	5.0988	5.70599	11.54337	4.35416	2.43E-03	1.20E-05	1.17E-05	2.71E-05	8.57E-06	2.4888E-03
520344.17	4258373.14	127770.2899	0.306	0.5441	0.30764	0.59402	2.43E-03	7.18E-07	1.12E-06	7.22E-07	1.17E-06	2.4324E-03
520324.59	4258373.08	127629.4557	0.32477	0.61704	0.32841	0.67763	2.43E-03	7.62E-07	1.27E-06	7.71E-07	1.33E-06	2.4301E-03
520256.04	4258382.87	127533.4671	0.40657	1.0442	0.41831	1.16547	2.42E-03	9.54E-07	2.14E-06	9.82E-07	2.29E-06	2.4306E-03
520158.67	4258839.55	127217.8379	3.04657	0.5646	2.71257	0.56785	2.42E-03	7.15E-06	1.16E-06	6.37E-06	1.12E-06	2.4340E-03
520402.87	4258383.33	127188.3482	0.25996	0.38752	0.25992	0.41576	2.42E-03	6.10E-07	7.95E-07	6.10E-07	8.18E-07	2.4205E-03
520314.8	4258373.05	127073.5358	0.33447	0.66008	0.33936	0.72674	2.42E-03	7.85E-07	1.35E-06	7.97E-07	1.43E-06	2.4198E-03
520459.13	4258430.83	126994.4416	0.23085	0.28358	0.22957	0.30264	2.41E-03	5.42E-07	5.82E-07	5.39E-07	5.96E-07	2.4162E-03
520353.96	4258373.18	126877.1818	0.29684	0.51347	0.29798	0.55847	2.41E-03	6.97E-07	1.05E-06	7.00E-07	1.10E-06	2.4153E-03
520118.78	4258452.44	126849.2885	0.72405	7.19521	0.79178	8.75012	2.41E-03	1.70E-06	1.48E-05	1.86E-06	1.72E-05	2.4467E-03
520057.12	4258636.77	126816.4181	5.22246	3.7567	10.15607	3.15456	2.41E-03	1.23E-05	7.70E-06	2.38E-05	6.21E-06	2.4606E-03
520365.4	4258842.82	126667.0159	0.5043	0.23037	0.48408	0.24458	2.41E-03	1.18E-06	4.72E-07	1.14E-06	4.81E-07	2.4110E-03
520128.6	4258442.47	126557.8477	0.67831	5.65848	0.73882	6.83124	2.41E-03	1.59E-06	1.16E-05	1.73E-06	1.34E-05	2.4340E-03
520207.02	4258863.08	126553.3572	1.65869	0.40251	1.53401	0.42625	2.41E-03	3.89E-06	8.26E-07	3.60E-06	8.39E-07	2.4147E-03
520315.93	4258862.9	126408.9243	0.68729	0.26019	0.65784	0.27692	2.40E-03	1.61E-06	5.34E-07	1.54E-06	5.45E-07	2.4070E-03
520363.74	4258373.21	126036.6049	0.28817	0.48485	0.28874	0.52573	2.40E-03	6.77E-07	9.94E-07	6.78E-07	1.03E-06	2.3991E-03
520441.94	4258763.34	126023.0079	0.32461	0.2093	0.31324	0.22058	2.40E-03	7.62E-07	4.29E-07	7.35E-07	4.34E-07	2.3978E-03
520411.7	4258805.88	125442.1413	0.38516	0.2113	0.37073	0.22431	2.38E-03	9.04E-07	4.33E-07	8.70E-07	4.42E-07	2.3871E-03
520216.85	4258392.75	125343.656	0.46422	1.52426	0.47857	1.72346	2.38E-03	1.09E-06	3.13E-06	1.12E-06	3.39E-06	2.3913E-03
520177.3	4258853.13	125241.4161	2.35245	0.48594	2.12804	0.50067	2.38E-03	5.52E-06	9.97E-07	5.00E-06	9.86E-07	2.3931E-03
520395.07	4258822.77	125156.8251	0.42336	0.21606	0.407	0.22961	2.38E-03	9.94E-07	4.43E-07	9.56E-07	4.52E-07	2.3818E-03
520149.95	4258835.95	125051.7093	3.50389	0.59985	3.09445	0.59418	2.38E-03	8.23E-06	1.23E-06	7.26E-06	1.17E-06	2.3949E-03
520464.75	4258707.32	125010.7697	0.28009	0.21349	0.27043	0.22459	2.38E-03	6.58E-07	4.38E-07	6.35E-07	4.42E-07	2.3784E-03
520246.25	4258382.84	124735.8452	0.41691	1.14371	0.42928	1.27958	2.37E-03	9.79E-07	2.35E-06	1.01E-06	2.52E-06	2.3779E-03
520108.93	4258472.41	124717.3121	0.85546	9.53156	0.9477	11.54478	2.37E-03	2.01E-06	1.95E-05	2.22E-06	2.27E-05	2.4172E-03
520373.53	4258373.24	124685.1433	0.27974	0.45874	0.27998	0.49586	2.37E-03	6.57E-07	9.41E-07	6.57E-07	9.76E-07	2.3733E-03
520113.27	4258800.83	124659.5734	7.65586	0.83441	6.58663	0.77545	2.37E-03	1.80E-05	1.71E-06	1.55E-05	1.53E-06	2.4062E-03
520057.12	4258683.15	124562.5859	6.15111	1.96683	11.85848	1.78869	2.37E-03	1.44E-05	4.03E-06	2.78E-05	3.52E-06	2.4175E-03
520256.54	4258873	124507.0312	1.06139	0.3138	1.00363	0.33667	2.37E-03	2.49E-06	6.44E-07	2.36E-06	6.63E-07	2.3728E-03
520266.45	4258872.98	124422.7199	0.98177	0.30202	0.93109	0.32389	2.37E-03	2.30E-06	6.19E-07	2.19E-06	6.38E-07	2.3708E-03
520246.64	4258873.02	124089.674	1.15037	0.32634	1.08414	0.35001	2.36E-03	2.70E-06	6.69E-07	2.55E-06	6.89E-07	2.3653E-03
520276.35	4258872.97	123866.2553	0.91055	0.29005	0.86572	0.31171	2.35E-03	2.14E-06	5.97E-07	2.03E-06	6.14E-07	2.3599E-03
520325.83	4258862.89	123863.4979	0.64508	0.25156	0.61794	0.26735	2.35E-03	1.51E-06	5.16E-07	1.45E-06	5.26E-07	2.3584E-03
520197.12	4258863.1	123802.2529	1.84733	0.42292	1.69753	0.44431	2.35E-03	4.34E-06	8.67E-07	3.99E-06	8.75E-07	2.3633E-03
520450.43	4258740.82	123731.0592	0.30901	0.20868	0.29808	0.21952	2.35E-03	7.25E-07	4.28E-07	7.00E-07	4.32E-07	2.3542E-03
520138.42	4258432.5	123640.5487	0.63542	4.61588	0.68931	5.48525	2.35E-03	1.49E-06	9.47E-06	1.62E-06	1.08E-05	2.3933E-03
520285.44	4258372.96	123553.217	0.36419	0.82329	0.37322	0.91214	2.35E-03	8.55E-07	1.69E-06	8.76E-07	1.80E-06	2.3537E-03
520100.38	4258785.51	123490.5115	11.32571	0.93852	9.96805	0.85837	2.35E-03	2.66E-05	1.92E-06	2.34E-05	1.69E-06	2.4009E-03
520412.66	4258383.36	123347.5167	0.25241	0.36841	0.25253	0.39453	2.34E-03	5.93E-07	7.56E-07	5.93E-07	7.77E-07	2.3473E-03
520385.19	4258832.79	123269.4833	0.44817	0.21888	0.43052	0.23251	2.34E-03	1.05E-06	4.49E-07	1.01E-06	4.58E-07	2.3461E-03
520236.74	4258873.03	123266.9844	1.25177	0.34004	1.17514	0.36416	2.34E-03	2.94E-06	6.97E-07	2.76E-06	7.17E-07	2.3502E-03
520286.25	4258872.95	122910.5116	0.84671	0.28057	0.80674	0.30022	2.34E-03	1.99E-06	5.75E-07	1.89E-06	5.91E-07	2.3414E-03
520123.11	4258814.88	122889.9973	6.00755	0.74906	5.16491	0.70674	2.34E-03	1.41E-05	1.54E-06	1.21E-05	1.39E-06	2.3651E-03
520428.83	4258788.78	122863.8962	0.3517	0.20737	0.33885	0.21939	2.34E-03	8.26E-07	4.25E-07	7.96E-07	4.32E-07	2.3379E-03
520090.84	4258771.58	122794.2832	15.24834	1.03275	15.16187	0.93849	2.33E-03	3.58E-05	2.12E-06	3.56E-05	1.85E-06	2.4095E-03
520141.24	4258832.36	122738.3269	4.11508	0.63694	3.59592	0.62044	2.33E-03	9.66E-06	1.31E-06	8.44E-06	1.22E-06	2.3537E-03
520355.52	4258852.84	122620.1712	0.53727	0.23336	0.51538	0.24756	2.33E-03	1.26E-06	4.79E-07	1.21E-06	4.87E-07	2.3342E-03
520438.05	4258774.96	122523.0276	0.33344	0.20713	0.32155	0.21859	2.33E-03	7.83E-07	4.25E-07	7.55E-07	4.30E-07	2.3313E-03
520187.46	4258402.66	122499.8936	0.51377	2.14294	0.53585	2.4586	2.33E-03	1.21E-06	4.40E-06	1.26E-06	4.84E-06	2.3402E-03
520059.85	4258608.54	122497.0667	4.51414	7.14133	10.43773	5.02645	2.33E-03	1.06E-05	1.46E-05	2.45E-05	9.89E-06	2.3881E-03
520167.85	4258412.59	122261.8449	0.55552	2.79837	0.58896	3.25095	2.32E-03	1.30E-06	5.74E-06	1.38E-06	6.40E-06	2.3388E-03
520432.2	4258393.42	122061.6155	0.24109	0.33187	0.24155	0.35465	2.32E-03	5.66E-07	6.81E-07	5.67E-07	6.98E-07	2.3227E-03
520226.84	4258873.05	122014.593	1.36825	0.35504	1.27886	0.37911	2.32E-03	3.21E-06	7.28E-07	3.00E-06	7.46E-07	2.3270E-03
520275.65	4258372.93	121771.3296	0.37405	0.89211	0.3843	0.99014	2.31E-03	8.78E-07	1.83E-06	9.02E-07	1.95E-06	2.3202E-03
520296.15	4258872.93	121617.8877	0.78957	0.27088	0.75363	0.28945	2.31E-03	1.85E-06	5.56E-07	1.77E-06	5.70E-07	2.3165E-03
520236.46	4258382.81	121593.4244	0.42678	1.25777	0.43947	1.41116	2.31E-03	1.00E-06	2.58E-06	1.03E-06	2.78E-06	2.3187E-03
520393.11	4258373.3	121253.9375	0.26402	0.41161	0.26375	0.44278	2.30E-03	6.20E-07	8.44E-07	6.19E-07	8.72E-07	2.3078E-03
520335.74	4258862.87	121188.9067	0.60747	0.24357	0.58222	0.25859	2.30E-03	1.43E-06	5.00E-07	1.37E-06	5.09E-07	2.3074E-03
520375.31	4258842.8	121077.8574	0.47653	0.22226	0.45742	0.23595	2.30E-03	1.12E-06	4.56E-07	1.07E-06	4.64E-07	2.3046E-03
520167.4	4258853.15	120919.4209	2.6963	0.51213	2.4177	0.51978	2.30E-03	6.33E-06	1.05E-06	5.68E-06	1.02E-06	2.3125E-03
520207.06	4258392.72	120866.9456	0.47337	1.70277	0.48916	1.93316	2.30E-03	1.11E-06	3.49E-06	1.15E-06	3.81E-06	2.3070E-03
520187.22	4258863.12	120643.1101	2.07393	0.44494	1.89218	0.46268	2.29E-03	4.87E-06	9.13E-07	4.44E-06	9.11E-07	2.3043E-03
520216.94	4258873.07	120314.5132	1.50282	0.37138	1.39768	0.39474	2.29E-03	3.53E-06	7.62E-07	3.28E-06	7.77E-07	2.2953E-03
520458.69	4258420.62	120293.4796	0.22892	0.28646	0.22804	0.3058	2.29E-03	5.37E-07	5.88E-07	5.35E-07	6.02E-07	2.2888E-03
520306.05	4258872.92	120006.4859	0.73826	0.26184	0.70565	0.27935	2.28E-03	1.73E-06	5.37E-07	1.66E-06	5.50E-07	2.2856E-03
520265.86	4258372.9	119685.5135	0.38375	0.96991	0.39492	1.07853	2.28E-03	9.01E-07	1.99E-06	9.27E-07	2.12E-06	2.2809E-03
520471.48	4258691.25	119469.2905	0.26859	0.2134	0.25965	0.2247	2.27E-03	6.31E-07	4.38E-07	6.10E-07	4.42E-07	2.2730E-03
520422.44	4258383.39	119137.8277	0.24523	0.35132	0.24553	0.37553	2.26E-03	5.76E-07	7.21E-07	5.76E-07	7.39E-07	2.2672E-03
520104.26	4258797.11	119008.5514	0.94722	0.86876	8.66777	0.79766	2.26E-03	2.34E-05	1.78E-06	2.03E-05	1.57E-06	2.3092E-03
520148.24	4258422.53	118946.8435	0.59435	3.85489	0.64165	4.52308	2.26E-03	1.40E-06	7.91E-06	1.51E-06	8.90E-06	2.2807E-03
520472.09	4258480.39	118941.9821	0.23055	0.25794	0.22798	0.27476	2.26E-03	5.41E-07	5.29E-07	5.35E-07	5.41E-07	2.2630E-03
520334.41	4258363.11	118723.8996	0.30926	0.58396	0.31302	0.63968	2.26E-03	7.26E-07	1.20E-06	7.35E-07	1.26E-06	2.2606E-03
520344.2	4258363.15	118714.9168	0.3005	0.54881	0.30327	0.59951	2.26E-03	7.05E-07	1.13E-06	7.12E-07	1.18E-06	2.2603E-03
520402.9	4258373.33	118490.6541	0.25646	0.39065	0.25622	0.41926	2.25E-03	6.02E-07	8.01E-07	6.02E-07	8.25E-07	2.2553E-03
520324.62	4258363.08	118431.6281	0.31817	0.62327	0.32308	0.68443	2.25E-03	7.47E-07	1.28E-06	7.58E-07	1.35E-06	2.2553E-03
520207.04	4258873.08	118305.8339	1.66248	0.38948	1.53735	0.41136	2.25E-03	3.90E-06	7.99E-07	3.61E-06	8.10E-07	2.2579E-03
520114.26	4258811.23	118282.1445	7.49525	0.78532	6.43349	0.72982	2.25E-03	1.76E-05	1.61E-06	1.51E-05	1.44E-06	2.2841E-03
520226.67	4258382.78	118088.6024	0.43605	1.38894	0.44908	1.56372	2.24E-03	1.02E-06	2.85E-06	1.05E-06	3.08E-06	2.2527E-03
520353.99	4258363.18	117991.5186	0.2918	0.51758	0.29388	0.56342	2.24E-03	6.85E-07	1.06E-06	6.90E-07	1.11E-06	2.2464E-03
520365.42	4258852.82	117893.5438	0.55668	0.22518	0.48605	0.23885	2.24E-03	1.19E-06	4.62E-07	1.14E-06	4.70E-07	2.2442E-03
520315.95	4258872.9	117844.9876	0.6906	0.25298	0.66088	0.26944	2.24E-03	1.62E-06	5.19E-07	1.55E-06	5.30E-07	2.2442E-03
520314.83	4258363.05	117836.5265	0.3272	0.66702	0.33333	0.73415	2.24E-03	7.68E-07	1.37E-06	7.83E-07	1.45E-06	2.2442E-03
520108.96	4258462.41	117707.6003	0.76902	9.58585	0.84506	11.61428	2.24E-03	1.81E-06	1.97E-05	1.98E-06	2.29E-05	2.2837E-03
520092.01	4258782.06	117339.7232	14.77259	0.96193	14.31826	0.87563	2.23E-03	3.47E-05	1.97E-06	3.36E-05	1.72E-06	3.3024E-03
520256.07	4258372.87	117291.683	0.39319	1.05805	0.40488	1.17914	2.23E-03	9.23E-07	2.17E-06	9.51E-07	2.32E-06	2.2359E-03
520363.78	4258363.21	117140.166	0.28344	0.48863	0.28484	0.53025	2.23E-03	6.65E-07	1.00E-06	6.69E-07	1.04E-06	2.2300E-03
520177.32	4258863.13	117045.5749	2.34694	0.4682	2.12485	0.48074	2.22E-03	5.51E-06	9.60E-07	4.99E-06	9.46E-07	2.2372E-03
520305.04	4258363.02	116949.1769	0.3363	0.71606	0.34369	0.78974	2.22E-03	7.90E-07	1.47E-06	8.07E-07	1.55E-06	2.2276E-03
520059.81	4258598.85	116771.6907	3.78442	8.9405	8.72421	5.65802	2.22E-03	8.88E-06	1.83E-05	2.05E-05	1.11E-05	2.2785E-03
520467.75	4258434.52	116771.7623	0.22541	0.27218	0.22389	0.29004	2.22E-03	5.29E-07	5.58E-07	5.26E-07	5.71E-07	2.2210E-03
520395.09	4258832.77	116684.092	0.42556	0.21167	0.40871	0.22477	2.22E-03	9.99E-07	4.34E-07	9.60E-07	4.42E-07	2.2208E-03
520256.56	4258883	116508.0465	1.06715	0.30473	1.00873	0.32694	2.21E-03	2.51E-06	6.25E-07	2.37E-06	6.44E-07	2.2207E-03
520266.46	4258882.98	116388.5835	0.98726	0.29337	0.936	0.3147	2.21E-03	2.32E-06	6.02E-07	2.20E-06	6.19E-07	2.2183E-03
520473.34	4258463.05	116296.5474	0.22668	0.26021	0.22457	0.27691	2.21E-03	5.32E-07	5.34E-07	5.27E-07	5.45E-07	2.2127E-03
520246.66	4258883.02	116209.6131	1.15714	0.317	1.09006	0.33983	2.21E-03	2.72E-06	6.50E-07	2.56E-06	6.69E-07	2.2155E-03
520123.81	4258825.16	116178.2826	5.9324	0.70926	5.09729	0.66833	2.21E-03	1.39E-05	1.45E-06	1.20E-05	1.32E-06	2.2370E-03
520177.67	4258402.63	116133.059	0.51969	2.44863	0.54728	2.82496	2.21E-03	1.22E-06	5.02E-06	1.28E-06	5.56E-06	2.2206E-03
520437.28	4258785.28	116101.0763	0.3371	0.2034	0.3248	0.21483	2.21E-03	7.91E-07	4.17E-07	7.63E-07	4.23E-07	2.2093E-03
520373.56	4258363.24	116071.2179	0.27541	0.4621	0.27622	0.50001	2.21E-03	6.47E-07	9.48E-07	6.48E-07	9.84E-07	2.2095E-03
520197.28	4258392.69	115919.7878	0.48122	1.91323	0.49983	2.18238	2.20E-03	1.13E-06	3.92E-06	1.17E-06	4.30E-06	2.2139E-03
520276.36	4258882.97	115911.415	0.91613	0.28281	0.87076	0.30314	2.20E-03	2.15E-06	5.80E-07	2.04E-06	5.97E-07	2.2086E-03
520197.14	4258873.1	115852.6276	1.85088	0.40896	1.70073	0.42832	2.20E-03	4.35E-06	8.39E-07	3.99E-06	8.43E-07	2.2122E-03
520428.34	4258798.99	115832.2635	0.35498	0.20357	0.34171	0.21551	2.20E-03	8.33E-07	4.18E-07	8.02E-07	4.24E-07	2.2042E-03
520295.26	4258362.99	115774.6334	0.34538	0.77105	0.35399	0.85194	2.20E-03	8.11E-07	1.58E-06	8.31E-07	1.68E-06	2.2056E-03
520061.21	4258717.12	115629.3663	7.55752	1.43669	17.63312	1.32556	2.20E-03	1.77E-05	2.95E-06	4.14E-05	2.61E-06	2.2626E-03
520236.76	4258883.03	115514.2898	1.25938	0.33035	1.18172	0.35342	2.20E-03	2.96E-06	6.78E-07	2.77E-06	6.96E-07	2.2028E-03
520325.85	4258872.89	115430.1794	0.64775	0.24468	0.62038	0.26017	2.19E-03	1.52E-06	5.02E-07	1.46E-06	5.12E-07	2.1981E-03
520385.21	4258842.79	115283.0009	0.45132	0.21471	0.43315	0.22789	2.19E-03	1.06E-06	4.40E-07	1.02E-06	4.49E-07	2.1943E-03
520412.69	4258373.36	115118.8841	0.24913	0.37137	0.249	0.3977	2.19E-03	5.85E-07	7.62E-07	5.85E-07	7.83E-07	2.1909E-03
520461.66	4258738.63	115079.7257	0.29129	0.20514	0.28079	0.2154	2.19E-03	6.84E-07	4.21E-07	6.59E-07	4.24E-07	2.1896E-03
520286.26	4258882.95	115048.4904	0.85223	0.27289	0.81175	0.29219	2.19E-03	2.00E-06	5.60E-07	1.91E-06	5.75E-07	2.1919E-03
520446.65	4258771.39	114729.1854	0.31949	0.20296	0.30806	0.21383	2.18E-03	7.50E-07	4.16E-07	7.23E-07	4.21E-07	2.1831E-03
520246.28	4258372.84	114583.7415	0.40223	1.15847	0.41415	1.29436	2.18E-03	9.44E-07	2.38E-06	9.72E-07	2.55E-06	2.1849E-03
520226.86	4258883.05	114461.5989	1.37748	0.34503	1.28674	0.36784	2.18E-03	3.23E-06	7.08E-07	3.02E-06	7.24E-07	2.1834E-03
520285.47	4258362.96	114312.6785	0.35438	0.83305	0.36409	0.92197	2.17E-03	8.32E-07	1.71E-06	8.55E-07	1.81E-06	2.1781E-03
520216.88	4258382.75	114210.6964	0.44456	1.54172	0.4585	1.74241	2.17E-03	1.04E-06	3.16E-06	1.08E-06	3.43E-06	2.1797E-03
520355.54	4258862.84	114171.6069	0.53935	0.22771	0.51713	0.24142	2.17E-03	1.27E-06	4.67E-07	1.21E-06	4.75E-07	2.1736E-03
520432.23	4258383.42	114138.1713	0.23822	0.3349	0.23863	0.35747	2.17E-03	5.59E-07	6.87E-07	5.60E-07	7.04E-07	2.1721E-03
520158.06	4258412.56	113992.7823	0.55714	3.27538	0.59706	3.82522	2.17E-03	1.31E-06	6.72E-06	1.40E-06	7.53E-06	2.1838E-03
520296.17	4258882.93	113799.9688	0.79439	0.26351	0.758	0.28177	2.16E-03	1.86E-06	5.40E-07	1.78E-06	5.55E-07	2.1679E-03
520057.69	4258708.63	113753.036	6.34969	1.52196	12.77138	1.40367	2.16E-03	1.49E-05	3.12E-06	3.00E-05	2.76E-06	2.2130E-03
520468.29	4258722.81	113634.1804	0.27939	0.20604	0.26937	0.21631	2.16E-03	6.56E-07	4.23E-07	6.32E-07	4.26E-07	2.1621E-03
520095.25	4258793.39	113564.9744	13.38444	0.89426	12.31441	0.8159	2.16E-03	3.14E-05	1.83E-06	2.89E-05	1.61E-06	2.2224E-03
520105.4	4258807.57	113368.8308	9.64865	0.8156	8.36747	0.74953	2.15E-03	2.27E-05	1.67E-06	1.96E-05	1.48E-06	2.2004E-03
520167.42	4258863.15	113200.2549	2.6881	0.49288	2.41305	0.49842	2.15E-03	6.31E-06	1.01E-06	5.67E-06	9.81E-07	2.1657E-03
520393.14	4258363.3	113124.7898	0.26027	0.4146	0.26016	0.44641	2.15E-03	6.11E-07	8.50E-07	6.11E-07	8.79E-07	2.1532E-03
520335.75	4258872.87	113121.0629	0.61057	0.23733	0.58502	0.25204	2.15E-03	1.43E-06	4.87E-07	1.37E-06	4.96E-07	2.1540E-03
520187.24	4258873.12	113085.4786	2.07894	0.43009	1.89657	0.44569	2.15E-03	4.88E-06	8.82E-07	4.45E-06	8.77E-07	2.1606E-03
520375.32	4258852.8	113051.7155	0.47921	0.21762	0.45964	0.2308	2.15E-03	1.13E-06	4.46E-07	1.08E-06	4.54E-07	2.1520E-03
520216.96	4258883.07	112997.6094	1.51405	0.36097	1.40714	0.38286	2.15E-03	3.55E-06	7.40E-07	3.30E-06	7.54E-07	2.1562E-03
520275.68	4258362.93	112554.0575	0.36322	0.90282	0.37377	1.00087	2.14E-03	8.53E-07	1.85E-06	8.77E-07	1.97E-06	2.1450E-03
520306.07	4258882.92	112345.7591	0.74299	0.25488	0.70996	0.27216	2.14E-03	1.74E-06	5.23E-07	1.67E-06	5.36E-07	2.1400E-03
520467.07	4258424.21	112253.5207	0.22381	0.27506	0.22259	0.29327	2.13E-03	5.25E-07	5.64E-07	5.23E-07	5.77E-07	2.1359E-03
520115.09	4258821.56	112176.9083	7.35523	0.74127	6.30434	0.68881	2.13E-03	1.73E-05	1.52E-06	1.48E-05	1.36E-06	2.1672E-03
520158.32	4258859.39	111975.3068	3.0764	0.52349	2.73854	0.52181	2.13E-03	7.22E-06	1.07E-06	6.43E-06	1.03E-06	2.1442E-03
520054.16	4258700.13	111611.0321	5.6169	1.61282	9.94732	1.4881	2.12E-03	1.32E-05	3.31E-06	2.34E-05	2.93E-06	2.1643E-03
520236.49	4258372.81	111551.4125	0.41079	1.27314	0.42285	1.42697	2.12E-03	9.64E-07	2.61E-06	9.93E-07	2.81E-06	2.1278E-03
520422.48	4258373.39	111421.2067	0.24214	0.35441	0.24221	0.37863	2.12E-03	5.68E-07	7.27E-07	5.69E-07	7.45E-07	2.1205E-03
520207.06	4258883.08	111194.6568	1.67487	0.37838	1.54764	0.39854	2.11E-03	3.93E-06	7.76E-07	3.63E-06	7.85E-07	2.1227E-03
520402.93	4258363.33	110719.4093	0.25298	0.3936	0.25273	0.42274	2.10E-03	5.94E-07	8.07E-07	5.93E-07	8.32E-07	2.1074E-03
520059.77	4258589.15	110619.6087	3.04233	10.75058	6.37004	6.12036	2.10E-03	7.14E-06	2.20E-05	1.50E-05	1.20E-05	2.1589E-03
520344.23	4258353.15	110583.159	0.29496	0.55398	0.29889	0.60518	2.10E-03	6.92E-07	1.14E-06	7.02E-07	1.19E-06	2.1057E-03
520334.44	4258353.11	110557.5662	0.3032	0.58982	0.30814	0.64597	2.10E-03	7.12E-07	1.21E-06	7.23E-07	1.27E-06	2.1054E-03
520457.59	4258756.86	110540.1485	0.30083	0.20117	0.28985	0.21147	2.10E-03	7.06E-07	4.13E-07	6.80E-07	4.16E-07	2.1034E-03
520265.89	4258362.9	110498.9696	0.37183	0.98157	0.38289	1.09021	2.10E-03	8.73E-07	2.01E-06	8.99E-07	2.

520432.26	4258373.42	107067.715	0.23536	0.33782	0.23556	0.3603	2.04E-03	5.53E-07	6.93E-07	5.53E-07	7.09E-07	2.0377E-03	
520355.55	4258872.84	106709.0299	0.54181	0.22231	0.51927	0.23561	2.03E-03	1.27E-06	4.56E-07	1.22E-06	4.64E-07	2.0318E-03	
520296.18	4258892.93	106623.0072	0.79831	0.25631	0.76152	0.27423	2.03E-03	1.87E-06	5.26E-07	1.79E-06	5.40E-07	2.0314E-03	
520187.26	4258883.12	106453.2689	2.0928	0.41698	1.90775	0.43047	2.02E-03	4.91E-06	8.55E-07	4.48E-06	8.47E-07	2.0346E-03	
520167.44	4258873.15	106406.0295	2.69201	0.47522	2.41676	0.47871	2.02E-03	6.32E-06	9.75E-07	5.67E-06	9.42E-07	2.0365E-03	
520115.81	4258831.85	106378.5908	7.22662	0.7014	6.18938	0.65165	2.02E-03	1.70E-05	1.44E-06	1.45E-05	1.28E-06	2.0563E-03	
520216.97	4258893.07	106151.8843	1.52146	0.35064	1.41338	0.37101	2.02E-03	3.57E-06	7.19E-07	3.32E-06	7.30E-07	2.0261E-03	
520285.5	4258352.96	106055.4397	0.34467	0.84233	0.35458	0.93131	2.02E-03	8.09E-07	1.73E-06	8.32E-07	1.83E-06	2.0211E-03	
520335.77	4258882.87	106038.401	0.61442	0.23151	0.5885	0.24602	2.02E-03	1.44E-06	4.75E-07	1.38E-06	4.84E-07	2.0194E-03	
520403.77	4258839.18	105909.5252	0.40774	0.20277	0.39124	0.21512	2.01E-03	9.57E-07	4.16E-07	9.19E-07	4.23E-07	2.0159E-03	
520393.17	4258353.3	105856.5985	0.25656	0.41739	0.25687	0.4499	2.01E-03	6.02E-07	8.56E-07	6.03E-07	8.86E-07	2.0151E-03	
520476.37	4258438.21	105718.0657	0.22008	0.26173	0.21837	0.27844	2.01E-03	5.17E-07	5.37E-07	5.13E-07	5.48E-07	2.0116E-03	
520246.31	4258362.84	105586.6476	0.38802	1.17167	0.39931	1.308	2.01E-03	9.11E-07	2.40E-06	9.37E-07	2.57E-06	2.0138E-03	
520481.53	4258691.19	105423.489	0.25765	0.20602	0.2488	0.21672	2.00E-03	6.05E-07	4.23E-07	5.84E-07	4.27E-07	2.0059E-03	
520375.34	4258862.8	105343.3661	0.48022	0.21249	0.46033	0.22512	2.00E-03	1.13E-06	4.36E-07	1.08E-06	4.43E-07	2.0055E-03	
520158.47	4258869.45	105318.7525	3.07054	0.50323	2.73468	0.49986	2.00E-03	7.21E-06	1.03E-06	6.42E-06	9.84E-07	2.0176E-03	
520197.31	4258382.69	105251.7771	0.45826	1.93329	0.47762	2.20383	2.00E-03	1.08E-06	3.97E-06	1.12E-06	4.34E-06	2.0111E-03	
520306.08	4258892.92	105188.2415	0.74609	0.24788	0.71271	0.26484	2.00E-03	1.75E-06	5.08E-07	1.67E-06	5.21E-07	2.0039E-03	
520108.99	4258452.41	104957.4952	0.69591	9.62409	0.75893	11.66282	2.00E-03	1.63E-06	1.97E-05	1.78E-06	2.30E-05	2.0412E-03	
520148.27	4258412.53	104917.3067	0.55391	3.88845	0.59761	4.55859	1.99E-03	1.30E-06	7.97E-06	1.40E-06	8.97E-06	2.0139E-03	
520047.12	4258664.6	104619.5494	3.95167	2.24575	6.12433	2.00939	1.99E-03	9.28E-06	4.61E-06	1.44E-05	3.96E-06	2.0208E-03	
520047.12	4258673.87	104568.0113	4.08627	2.01746	6.30665	1.82703	1.99E-03	9.59E-06	4.14E-06	1.48E-05	3.60E-06	2.0198E-03	
520207.07	4258893.08	104534.2599	0.36735	1.55434	0.38582	1.99E-03	3.95E-06	7.53E-07	3.65E-06	7.59E-07	1.99E-03		
520422.51	4258363.39	104515.5423	0.2391	0.35692	0.23894	0.38141	1.99E-03	5.61E-07	7.32E-07	5.61E-07	7.51E-07	1.9893E-03	
520177.7	4258392.63	104510.0708	0.49135	2.47247	0.51958	2.85055	1.99E-03	1.15E-06	5.07E-06	1.22E-06	5.61E-06	1.9996E-03	
520216.92	4258372.75	104482.2261	0.42579	1.55912	0.43984	1.76035	1.99E-03	1.00E-06	3.20E-06	1.03E-06	3.47E-06	1.9947E-03	
520061.4	4258741.7	104436.9872	8.15642	1.16717	18.12166	1.08754	1.99E-03	1.91E-05	2.39E-06	4.25E-05	2.14E-06	2.0514E-03	
520275.71	4258352.93	104339.997	0.3526	0.91256	0.36293	1.01087	1.98E-03	8.28E-07	1.87E-06	8.52E-07	1.99E-06	1.9889E-03	
520436.14	4258805.77	104073.9263	0.34345	0.19604	0.33029	0.20734	1.98E-03	8.06E-07	4.02E-07	7.75E-07	4.08E-07	1.9860E-03	
520444.98	4258792.1	104015.6237	0.32663	0.19589	0.31436	0.20672	1.98E-03	7.67E-07	4.02E-07	7.38E-07	4.07E-07	1.9795E-03	
520059.73	4258579.45	103971.4385	2.5146	12.03481	4.53985	6.47735	1.98E-03	5.90E-06	2.47E-05	1.07E-05	1.28E-05	2.0303E-03	
520149.5	4258865.74	103872.5981	3.54739	0.5323	3.13273	0.52077	1.97E-03	8.33E-06	1.09E-06	7.35E-06	1.03E-06	1.9922E-03	
520402.96	4258353.33	103748.6003	0.24953	0.39613	0.2495	0.42591	1.97E-03	5.86E-07	8.12E-07	5.86E-07	8.38E-07	1.9749E-03	
520097.66	4258814.37	103621.0435	12.38413	0.78784	11.10901	0.72069	1.97E-03	2.91E-05	1.62E-06	2.61E-05	1.42E-06	2.0278E-03	
520177.35	4258883.13	103568.4087	2.36872	0.4379	2.14252	0.44608	1.97E-03	5.56E-06	8.98E-07	5.03E-06	8.78E-07	1.9810E-03	
520047.12	4258683.15	103482.8226	4.19826	1.82437	6.46955	1.66827	1.97E-03	9.86E-06	3.74E-06	1.52E-05	3.28E-06	1.9991E-03	
520047.12	4258655.32	103478.4047	3.79612	2.51763	5.91625	2.21941	1.97E-03	8.91E-06	5.16E-06	1.39E-05	4.37E-06	1.9993E-03	
520315.98	4258892.9	103434.6094	0.69843	0.23986	0.66793	0.25589	1.97E-03	1.64E-06	4.92E-07	1.57E-06	5.04E-07	1.9703E-03	
520475.44	4258427.8	103394.8956	0.21877	0.2646	0.2173	0.28169	1.97E-03	5.14E-07	5.43E-07	5.10E-07	5.55E-07	1.9675E-03	
520344.26	4258343.15	103174.9312	0.28938	0.55925	0.2944	0.61077	1.96E-03	6.79E-07	1.15E-06	6.91E-07	1.20E-06	1.9649E-03	
520087.7	4258800.27	103108.3497	15.27936	0.85111	18.13949	0.77763	1.96E-03	3.59E-05	1.75E-06	4.26E-05	1.53E-06	2.0416E-03	
520427.58	4258819.32	103072.2303	0.36076	0.19626	0.34662	0.20788	1.96E-03	8.47E-07	4.03E-07	8.14E-07	4.09E-07	1.9617E-03	
520334.47	4258343.11	103047.2009	0.29705	0.59599	0.30309	0.65224	1.96E-03	6.97E-07	1.22E-06	7.12E-07	1.28E-06	1.9627E-03	
520471.95	4258738	103012.2162	0.27837	0.19848	0.26801	0.20816	1.96E-03	6.54E-07	4.07E-07	6.29E-07	4.10E-07	1.9602E-03	
520412.44	4258835.59	102951.565	0.39053	0.19895	0.37471	0.21102	1.96E-03	9.17E-07	4.08E-07	8.80E-07	4.15E-07	1.9595E-03	
520121.89	4258844.36	102915.4704	6.22361	0.64937	5.33522	0.60765	1.96E-03	1.46E-05	1.33E-06	1.25E-05	1.20E-06	1.9859E-03	
520354.05	4258343.18	102803.2622	0.28167	0.52636	0.28584	0.57331	1.95E-03	6.61E-07	1.08E-06	6.71E-07	1.13E-06	1.9576E-03	
520454.18	4258778.28	102766.0557	0.31017	0.19553	0.2987	0.20584	1.95E-03	7.28E-07	4.01E-07	7.01E-07	4.05E-07	1.9556E-03	
520324.68	4258343.08	102669.037	0.30477	0.63673	0.31182	0.69817	1.95E-03	7.16E-07	1.31E-06	7.32E-07	1.37E-06	1.9557E-03	
520236.52	4258362.81	102668.3307	0.39539	1.28719	0.40697	1.44165	1.95E-03	9.28E-07	2.64E-06	9.55E-07	2.84E-06	1.9589E-03	
520107.21	4258828.3	102646.0596	9.16981	0.7505	7.89922	0.66729	1.95E-03	2.15E-05	1.49E-06	1.85E-05	1.31E-06	1.9940E-03	
520395.12	4258852.77	102622.6404	0.43079	0.2037	0.41295	0.21596	1.95E-03	1.01E-06	4.18E-07	9.69E-07	4.25E-07	1.9535E-03	
520197.17	4258893.1	102577.8239	1.87423	0.38527	1.71993	0.40085	1.95E-03	4.40E-06	7.90E-07	4.04E-06	7.89E-07	1.9598E-03	
520466.23	4258403.82	102494.768	0.22011	0.28062	0.21973	0.29916	1.95E-03	5.17E-07	5.76E-07	5.16E-07	5.89E-07	1.9504E-03	
520256.59	4258903	102451.8826	1.0755	0.2877	1.01595	0.30841	1.95E-03	2.52E-06	5.90E-07	2.39E-06	6.07E-07	1.9535E-03	
520140.53	4258862.04	102449.5091	4.20634	0.56284	3.66819	0.54172	1.95E-03	9.88E-06	1.15E-06	8.61E-06	1.07E-06	1.9681E-03	
520365.45	4258872.82	102433.8188	0.50922	0.21442	0.48803	0.22705	1.95E-03	1.20E-06	4.40E-07	1.15E-06	4.47E-07	1.9503E-03	
520265.92	4258352.9	102357.4291	0.36024	0.99195	0.37073	1.10107	1.95E-03	8.46E-07	2.03E-06	8.70E-07	2.17E-06	1.9515E-03	
520266.5	4258902.98	102331.456	0.99535	0.27706	0.94307	0.29721	1.95E-03	2.34E-06	5.68E-07	2.21E-06	5.85E-07	1.9508E-03	
520246.69	4258903.02	102285.0237	1.16641	0.29933	1.098	0.32031	1.94E-03	2.74E-06	6.14E-07	2.58E-06	6.31E-07	1.9508E-03	
520363.84	4258343.21	102212.8483	0.27412	0.49638	0.27745	0.53923	1.94E-03	6.44E-07	1.02E-06	6.51E-07	1.06E-06	1.9463E-03	
520054.46	4258724.97	102212.1665	5.84044	1.29142	10.27215	1.20498	1.94E-03	1.37E-05	2.65E-06	2.41E-05	2.37E-06	1.9857E-03	
520481.25	4258457.95	102067.906	0.22008	0.25294	0.21801	0.2688	1.94E-03	5.17E-07	5.19E-07	5.12E-07	5.29E-07	1.9422E-03	
520314.9	4258343.05	102018.4452	0.31246	0.68205	0.32049	0.74915	1.94E-03	7.34E-07	1.40E-06	7.52E-07	1.47E-06	1.9435E-03	
520049.93	4258627.98	101877.4904	3.5615	3.85492	5.93579	3.16212	1.94E-03	8.36E-06	7.91E-06	1.39E-05	6.22E-06	1.9729E-03	
520276.4	4258902.97	101863.42	0.92367	0.26717	0.8774	0.28653	1.94E-03	2.17E-06	5.48E-07	2.06E-06	5.64E-07	1.9416E-03	
520236.79	4258903.03	101785.6751	1.26989	0.312	1.19066	0.33283	1.93E-03	2.98E-06	6.40E-07	2.80E-06	6.55E-07	1.9420E-03	
520158.09	4258402.56	101540.4031	0.52226	3.305	0.56041	3.85602	1.93E-03	1.23E-06	6.78E-06	1.32E-06	7.59E-06	1.9470E-03	
520325.88	4258892.89	101515.8007	0.65572	0.23245	0.62755	0.2476	1.93E-03	1.54E-06	4.77E-07	1.47E-06	4.87E-07	1.9336E-03	
520373.63	4258343.24	101460.076	0.26681	0.46894	0.2693	0.50817	1.93E-03	6.26E-07	9.62E-07	6.32E-07	1.00E-06	1.9318E-03	
520047.12	4258646.05	101298.2705	3.6197	2.84111	5.6737	2.46016	1.93E-03	8.50E-06	5.83E-06	1.33E-05	4.84E-06	1.9580E-03	
520478.49	4258722.38	101292.2787	0.26744	0.19906	0.25746	0.20883	1.93E-03	6.28E-07	4.08E-07	6.04E-07	4.11E-07	1.9274E-03	
520412.75	4258353.36	101230.0018	0.24269	0.37677	0.24249	0.40401	1.92E-03	5.70E-07	7.73E-07	5.69E-07	7.95E-07	1.9269E-03	
520305.11	4258343.02	101165.3938	0.32013	0.73251	0.32897	0.80597	1.92E-03	7.52E-07	1.50E-06	7.72E-07	1.59E-06	1.9276E-03	
520286.3	4258902.95	101138.7125	0.85974	0.25804	0.81842	0.27654	1.92E-03	2.02E-06	5.29E-07	1.92E-06	5.44E-07	1.9275E-03	
520459.98	4258391.14	101047.8738	0.22138	0.29213	0.22161	0.31117	1.92E-03	5.20E-07	5.99E-07	5.20E-07	6.13E-07	1.9230E-03	
520482.08	4258480.77	101039.6651	0.22306	0.24739	0.22034	0.2632	1.92E-03	5.24E-07	5.07E-07	5.17E-07	5.18E-07	1.9226E-03	
520226.89	4258903.05	100976.7171	1.38884	0.32576	1.29635	0.34593	1.92E-03	3.26E-06	6.68E-07	3.04E-06	6.81E-07	1.9270E-03	
520385.24	4258862.79	100771.2254	0.45495	0.20567	0.43594	0.21787	1.92E-03	1.07E-06	4.22E-07	1.02E-06	4.29E-07	1.9184E-03	
520432.3	4258363.42	100707.6038	0.2325	0.34044	0.23246	0.36301	1.91E-03	5.46E-07	6.98E-07	5.46E-07	7.15E-07	1.9168E-03	
520167.45	4258883.15	100473.3836	2.71315	0.45972	2.43274	0.46111	1.91E-03	6.37E-06	9.43E-07	5.71E-06	9.08E-07	1.9237E-03	
520207.13	4258372.72	100415.6138	0.43186	1.73948	0.44851	1.97188	1.91E-03	1.01E-06	3.57E-06	1.05E-06	3.88E-06	1.9182E-03	
520050.99	4258716.6	100360.4099	5.04562	1.36055	8.33612	1.26831	1.91E-03	1.18E-05	2.79E-06	1.96E-05	2.50E-06	1.9444E-03	
520187.27	4258893.12	100264.0608	2.10211	0.40414	1.91544	0.41571	1.91E-03	4.94E-06	8.29E-07	4.50E-06	8.18E-07	1.9169E-03	
520355.57	4258882.84	100166.7392	0.54498	0.21725	0.52207	0.23026	1.90E-03	1.28E-06	4.46E-07	1.23E-06	4.53E-07	1.9074E-03	
520187.52	4258382.66	100126.9752	0.46278	2.18714	0.48658	2.5058	1.90E-03	1.09E-06	4.49E-06	1.14E-06	4.93E-06	1.9149E-03	
520463.86	4258764.27	100122.8658	0.2941	0.19456	0.28311	0.20441	1.90E-03	6.90E-07	3.99E-07	6.65E-07	4.02E-07	1.9053E-03	
520256.13	4258352.87	100102.2724	0.36753	1.08138	0.37802	1.20346	1.90E-03	8.63E-07	2.22E-06	8.87E-07	2.37E-06	1.9091E-03	
520295.32	4258342.99	100070.3491	0.32768	0.78871	0.33712	0.8694	1.90E-03	7.69E-07	1.62E-06	7.91E-07	1.71E-06	1.9070E-03	
520296.2	4258902.93	100040.4885	0.8014	0.24933	0.76424	0.26689	1.90E-03	1.88E-06	5.11E-07	1.79E-06	5.25E-07	1.9063E-03	
520216.99	4258903.07	99766.34423	1.52518	0.34043	1.41652	0.3593	1.90E-03	3.58E-06	6.98E-07	3.33E-06	7.07E-07	1.9047E-03	
520335.79	4258892.87	99569.04779	0.61787	0.22577	0.59158	0.24011	1.89E-03	1.45E-06	4.63E-07	1.39E-06	4.73E-07	1.8964E-03	
520112.79	4258840.6	99549.78366	7.83442	0.67476	6.70481	0.62417	1.89E-03	1.84E-05	1.38E-06	1.57E-05	1.23E-06	1.9290E-03	
520226.74	4258362.78	99446.65237	0.40209	1.42016	0.41463	1.59626	1.89E-03	9.44E-07	2.91E-06	9.73E-07	3.14E-06	1.8983E-03	
520158.6	4258879.5	99427.12015	3.08084	0.4851	2.74193	0.48003	1.89E-03	7.23E-06	9.95E-07	6.44E-06	9.45E-07	1.9055E-03	
520450.83	4258377.21	99387.2402	0.22394	0.30882	0.22445	0.32853	1.89E-03	5.26E-07	6.33E-07	5.27E-07	6.47E-07	1.8915E-03	
520393.2	4258343.3	99321.91859	0.25289	0.42024	0.25381	0.4534	1.89E-03	5.94E-07	8.62E-07	5.96E-07	8.93E-07	1.8909E-03	
520088.94	4258810.77	98905.23773	14.80654	0.80001	16.84123	0.73174	1.88E-03	3.48E-05	1.64E-06	3.95E-05	1.44E-06	1.9574E-03	
520008.61	4258824.75	98787.58034	11.97909	0.7426	10.65881	0.68011	1.88E-03	2.81E-05	1.52E-06	2.50E-05	1.34E-06	1.9338E-03	
520306.1	4258902.92	98708.47935	0.74899	0.24121	0.71527	0.25787	1.88E-03	1.76E-06	4.95E-07	1.68E-06	5.08E-07	1.8807E-03	
520285.53	4258342.96	98604.7512	0.33495	0.85228	0.34485	0.94089	1.87E-03	7.86E-07	1.75E-06	8.10E-07	1.85E-06	1.8795E-03	
520375.36	4258872.8	98579.24005	0.48174	0.20768	0.46151	0.21984	1.87E-03	1.13E-06	4.26E-07	1.08E-06	4.33E-07	1.8769E-03	
520207.09	4258903.08	98325.10969	1.68687	0.35647	1.55776	0.37332	1.87E-03	3.96E-06	7.31E-07	3.66E-06	7.35E-07	1.8781E-03	
520047.12	4258636.77	98308.77144	3.40868	3.22763	5.38755	2.73211	1.87E-03	8.00E-06	6.62E-06	1.26E-05	5.38E-06	1.9013E-03	
520422.54	4258353.39	98308.45848	0.23607	0.35944	0.23585	0.38431	1.87E-03	5.54E-07	7.37E-07	5.54E-07	7.57E-07	1.8713E-03	
520453.3	4258788.66	98245.48509	0.31359	0.19221	0.30178	0.20251	1.87E-03	7.36E-07	3.94E-07	7.08E-07	3.99E-07	1.8697E-03	
520149.75	4258875.84	98159.67812	3.54914	0.51159	3.13225	0.4989	1.87E-03	8.33E-06	1.05E-06	7.35E-06	9.82E-07	1.8836E-03	
520047.53	4258708.24	98153.1564	4.46991	1.43458	6.94217	1.33547	1.87E-03	1.05E-05	2.94E-06	1.63E-05	2.63E-06	1.8981E-03	
520485.03	4258706.76	98123.54788	0.25708	0.19886	0.24758	0.20903	1.87E-03	6.04E-07	4.08E-07	5.81E-07	4.11E-07	1.8672E-03	
520167.91	4258392.59	97976.36693	0.49244	2.85066	0.52544	3.30648	1.86E-03	1.16E-06	5.85E-06	1.23E-06	6.51E-06	1.8771E-03	
520177.37	4258893.13	97752.05313	2.3831	0.4242	2.15391	0.43042	1.86E-03	5.59E-06	8.70E-07	5.06E-06	8.47E-07	1.8705E-03	
520122.59	4258854.64	97660.61767	6.13487	0.61749	5.25412	0.57754	1.86E-03	1.44E-05	1.27E-06	1.23E-05	1.14E-06	1.8855E-03	
520246.34	4258352.84	97576.4535	0.37436	1.18341	0.38503	1.32072	1.85E-03	8.79E-07	2.43E-06	9.04E-07	2.60E-06	1.8616E-03	
520402.99	4258343.33	97479.05858	0.24611	0.39891	0.24654	0.42928	1.85E-03	5.78E-07	8.18E-07	5.79E-07	8.45E-07	1.8557E-03	
520049.89	4258618.28	97427.77614	3.2211	4.48042	5.4233	3.53232	1.85E-03	7.56E-06	9.19E-06	1.27E-05	6.95E-06	1.8884E-03	
520316	4258902.9	97054.46901	0.70092	0.23345	0.6701	0.2492	1.84E-03	1.65E-06	4.79E-07	1.57E-06	4.91E-07	1.8490E-03	
520275.74	4258342.93	96964.02415	0.34206	0.92293	0.35204	1.02109	1.84E-03	8.03E-07	1.89E-06	8.26E-07	2.01E-06	1.8486E-03	
520484.73	4258467.07	96942.34573	0.21005	0.24725	0.2167	0.26279	1.84E-03	5.14E-07	5.07E-07	5.17E-07	5.17E-07	1.8447E-03	
520140.9	4258872.19	96884.88333	4.18811	0.53913	3.65181	0.5177	1.84E-03	9.83E-06	1.11E-06	8.57E-06	1.02E-06	1.8621E-03	
520256.61	4258913	96780.93946	1.08535	0.28092	1.02462	0.30095	1.84E-03	2.55E-06	5.76E-07	2.41E-06	5.92E-07	1.8458E-03	
520059.69	4258569.75	96770.19266	12.1571	12.82806	3.33569	6.85191	1.84E-03	4.99E-06	2.63E-05	7.83E-06	1.35E-05	1.8920E-03	
520246.71	4258913.02	96640.07475	1.17725	0.29227	1.10745	0.31237	1.84E-03	2.76E-06	5.99E-07	2.60E-06	6.15E-07	1.8435E-03	
520197.19	4258903.1	96583.35762	1.87886	0.37364	1.72392	0.38753	1.84E-03	4.41E-06	7.66E-07	4.05E-06	7.63E-07	1.8459E-03	
520266.51	4258912.98	96565.97827	1.00328	0.27035	0.95008	0.28997	1.84E-03	2.36E-06	5.54E-07	2.23E-06	5.71E-07	1.8413E-03	
520395.14	4258862.77	96475.16064	0.43306	0.19975	0.41474	0.21159	1.83E-03	1.02E-06	4.10E-07	9.74E-07	4.17E-07	1.8366E-03	
520462.63	4258774.79	96469.64031	0.29787	0.19164	0.28667	0.20146	1.83E-03	6.99E-07	3.93E-07	6.73E-07	3.97E-07	1.8359E-03	
520365.47	4258882.82	96389.89334	0.51261	0.20991	0.49098	0.22223	1.83E-03	1.20E-06	4.31E-07	1.15E-06	4.37E-07	1.8354E-03	
520236.81	4258913.03	96202.71595	1.28187	0.30459	1.201	0.32434	1.83E-03	3.01E-06	6.25E-07	2.82E-06	6.38E-07	1.8357E-03	
520429.77	4258828.42	96168.81832	0.35875	0.19166	0.34439	0.20294	1.83E-03	8.42E-07	3.93E-07	8.09E-07	3.99E-07	1.8304E-03	
520276.41	4258912.97	96131.87099	0.93106	0.26073	0.88399	0.27971	1.83E-03	2.19E-06	5.35E-07	2.08E-06	5.51E-07	1.8326E-03	
520099.14	4258472.38	96100.00321	0.81096	13.82781	0.89932	15.73937	1.83E-03	1.90E-06	2.84E-05	2.11E-06	3.10E-05	1.8900E-03	
520459.61	4258380.96	96049.70161	0.21926	0.29533	0.21967	0.31414	1.83E-03	5.15E-07	6.06E-07	5.16E-07	6.18E-07	1.8280E-03	
520103.68	4258836.84	96035.98539	10.23108	0.69487	8.8498	0.63807	1.83E-03	2.40E-05	1.43E-06	2.08E-05	1.26E-06	1.8729E-03	
520128.66	4258422.47	95988.43063	0.57589	0.24653	0.62063	6.9111	1.82E-03	1.35E-06	1.18E-05	1.46E-06	1.36E-05	1.8528E-03	
520197.34	4258372.69	95982.38955	0.4366	1.9531	0.45696	2.22342	1.82E-03	1.02E-06	4.01E-06	1.07E-06	4.38E-06	1.8349E-03	
520468.95	4258394.98	95962.84011	0.21646	0.27936	0.21636	0.29751	1.82E-03	5.08E-07	5.73E-07	5.08E-07	5.86E-07	1.8263E-03	
520216.95	4258362.75	95908.00982	0.408	1.57452	0.42245	1.77681	1.82E-03	9.58E-07	3.23E-06	9.92E-07	3.50E-06	1.8317E-03	
520226.91	4258913.05	95462.97781	1.40215	0.31791	1.3077	0.33681	1.81E-03	3.29E-06	6.52E-07	3.07E-06	6.63E-07	1.8223E-03	
520286.31	4258912.95	95452.19103	0.86655	0.25185	0.82453	0.27004	1.81E-03	2.03E-06	5.17E-07	1.94E-06	5.32E-07	1.8194E-03	
520325.9	4258902.89	95330.93257	0.65834	0.2264	0.62983	0.24133	1.81E-03	1.55E-06	4.64E-07	1.48E-06	4.75E-07	1.8160E-03	
520412.78	4258343.36	95268.7575	0.23951	0.37947	0.23961	0.40725	1.81E-03	5.62E-07	7.78E-07	5.63E-07	8.02E-07	1.8136E-03	
520138.48	4258412.5	95164.07803	0.54639	4.68896	0.58872	5.55751	1.81E-03	1.28E-06	9.62E-06	1.38E-06	1.09E-05	1.8321E-03	
520118.84	4258432.44	95079.08181	0.60527	7.26911	0.65297	8.84459	1.81E-03	1.42E-06	1.49E-05	1.53E-06	1.74E-05	1.8426E-03	
520265.95	4258342.9	95033.395	0.34881	1.00283	0.35877	1.112	1.81E-03	8.19E-07	2.06E-06	8.42E-07	2.19E-06	1.8123E-03	
520432.33	4258353.42	94959.85164	0.22968	0.34268	0.22947	0.36555	1.81E-03	5.39E-07	7.03E-07	5.39E-07	7.20E-07	1.8075E-03	
520167.47	4258893.15	94939.90425	2.72872	0.44463	2.44473	0.4442	1.80E-03	6.41E-06	9.12E-07	5.74E-06	8.74E-07	1.8186E-03	
520090.01	4258821.21	94777.94513	15.57065	0.75393	15.80948	0.69034	1.80E-03

520104.64	4258847.23	91579.267	9.91839	0.65803	8.54143	0.60481	1.74E-03	2.33E-05	1.35E-06	2.01E-05	1.19E-06	1.7866E-03	
520486.85	4258726.34	91411.10498	0.25897	0.19266	0.2491	0.20187	1.74E-03	6.08E-07	3.95E-07	5.85E-07	3.97E-07	1.7395E-03	
520256.63	4258923	91396.63196	1.09222	0.27398	1.03056	0.2932	1.74E-03	2.56E-06	5.62E-07	2.42E-06	5.77E-07	1.7434E-03	
520197.21	4258913.1	91393.22591	1.89496	0.36365	1.73707	0.37581	1.74E-03	4.45E-06	7.46E-07	4.08E-06	7.40E-07	1.7472E-03	
520109.02	4258442.41	91391.429	0.63348	9.64666	0.68592	11.70149	1.74E-03	1.49E-06	1.98E-05	1.61E-06	2.30E-05	1.7831E-03	
520459.32	4258370.83	91338.06871	0.21706	0.29842	0.21748	0.31699	1.74E-03	5.10E-07	6.12E-07	5.11E-07	6.24E-07	1.7384E-03	
520488.6	4258472.02	91304.88749	0.21703	0.2424	0.2145	0.25759	1.74E-03	5.10E-07	4.97E-07	5.04E-07	5.07E-07	1.7376E-03	
520246.73	4258923.02	91279.6848	1.18471	0.28502	1.11386	0.30415	1.74E-03	2.78E-06	5.85E-07	2.61E-06	5.99E-07	1.7416E-03	
520266.53	4258922.98	91214.15312	1.01004	0.26375	0.956	0.28273	1.73E-03	2.37E-06	5.41E-07	2.24E-06	5.57E-07	1.7395E-03	
520187.55	4258372.66	91182.60501	0.43965	2.20928	0.46427	2.52605	1.73E-03	1.03E-06	4.53E-06	1.09E-06	4.97E-06	1.7448E-03	
520040.59	4258691.51	91174.47535	3.44682	1.60192	4.93618	1.47694	1.73E-03	8.09E-06	3.29E-06	1.16E-05	2.91E-06	1.7589E-03	
520429.32	4258838.61	91109.0773	0.36149	0.18826	0.34661	0.19931	1.73E-03	8.49E-07	3.86E-07	8.14E-07	3.92E-07	1.7343E-03	
520158.12	4258392.56	91090.32943	0.49052	3.33074	0.5261	3.88495	1.73E-03	1.15E-06	6.83E-06	1.24E-06	7.65E-06	1.7483E-03	
520365.49	4258892.82	90964.66024	0.51628	0.20555	0.49419	0.21766	1.73E-03	1.21E-06	4.22E-07	1.16E-06	4.28E-07	1.7323E-03	
520236.83	4258923.03	90917.19894	1.29041	0.29701	1.20831	0.31563	1.73E-03	3.03E-06	6.09E-07	2.84E-06	6.21E-07	1.7353E-03	
520276.43	4258922.97	90754.39344	0.93672	0.25428	0.88898	0.27276	1.73E-03	2.20E-06	5.22E-07	2.09E-06	5.37E-07	1.7304E-03	
520471.08	4258771.29	90502.74106	0.28623	0.18789	0.27533	0.19724	1.72E-03	6.72E-07	3.85E-07	6.46E-07	3.88E-07	1.7224E-03	
520246.37	4258342.84	90414.12545	0.36117	1.19492	0.37152	1.33295	1.72E-03	8.48E-07	2.45E-06	8.72E-07	2.62E-06	1.7254E-03	
520344.32	4258323.15	90306.55992	0.27797	0.57035	0.28482	0.62162	1.72E-03	6.53E-07	1.17E-06	6.69E-07	1.22E-06	1.7203E-03	
520354.11	4258323.18	90305.3834	0.27136	0.53591	0.27733	0.58313	1.72E-03	6.37E-07	1.10E-06	6.51E-07	1.15E-06	1.7201E-03	
520226.93	4258923.05	90214.92463	1.41082	0.30982	1.31505	0.32744	1.71E-03	3.31E-06	6.35E-07	3.09E-06	6.45E-07	1.7225E-03	
520045.8	4258728.19	90190.3446	4.30977	1.20126	6.51248	1.12936	1.71E-03	1.01E-05	2.46E-06	1.53E-05	2.22E-06	1.7444E-03	
520477.93	4258398.82	90168.37894	0.21157	0.26766	0.21111	0.28486	1.71E-03	4.97E-07	5.49E-07	4.96E-07	5.61E-07	1.7160E-03	
520482.39	4258410.74	90164.668	0.21104	0.26014	0.20999	0.27677	1.71E-03	4.95E-07	5.34E-07	4.93E-07	5.45E-07	1.7159E-03	
520114.34	4258861.23	90160.59153	7.54222	0.60858	6.42382	0.56332	1.71E-03	1.77E-05	1.25E-06	1.51E-05	1.11E-06	1.7489E-03	
520325.92	4258912.89	90075.15973	0.66334	0.22124	0.63427	0.23605	1.71E-03	1.56E-06	4.54E-07	1.49E-06	4.65E-07	1.7161E-03	
520334.53	4258323.11	90069.56293	0.28457	0.6084	0.29223	0.66411	1.71E-03	6.68E-07	1.25E-06	6.86E-07	1.31E-06	1.7160E-03	
520286.33	4258922.95	90048.57052	0.87107	0.24553	0.8285	0.26332	1.71E-03	2.04E-06	5.04E-07	1.95E-06	5.18E-07	1.7167E-03	
520490.45	4258717.75	90047.13237	0.25353	0.19258	0.24382	0.20195	1.71E-03	5.95E-07	3.95E-07	5.72E-07	3.98E-07	1.7136E-03	
520432.36	4258343.42	89740.79249	0.22688	0.34492	0.22667	0.36818	1.71E-03	5.33E-07	7.07E-07	5.32E-07	7.25E-07	1.7083E-03	
520167.49	4258903.15	89736.84271	2.7367	0.42994	2.45142	0.428	1.71E-03	6.42E-06	8.82E-07	5.76E-06	8.43E-07	1.7196E-03	
520324.75	4258323.08	89512.95878	0.29103	0.65064	0.29948	0.71103	1.70E-03	6.83E-07	1.33E-06	7.03E-07	1.40E-06	1.7056E-03	
520187.31	4258913.12	89485.2593	2.12464	0.38069	1.93382	0.38874	1.70E-03	4.99E-06	7.81E-07	4.54E-06	7.65E-07	1.7120E-03	
520217.02	4258923.07	89284.40069	1.55144	0.32363	1.43865	0.33967	1.70E-03	3.64E-06	6.64E-07	3.38E-06	6.69E-07	1.7055E-03	
520403.52	4258869.31	89246.1977	0.41708	0.19247	0.39907	0.20369	1.70E-03	9.79E-07	3.95E-07	9.37E-07	4.01E-07	1.6991E-03	
520450.6	4258357.08	89231.29642	0.21908	0.31417	0.21921	0.33373	1.70E-03	5.14E-07	6.44E-07	5.15E-07	6.57E-07	1.6985E-03	
520385.27	4258882.79	89160.50774	0.45927	0.19732	0.43942	0.2087	1.69E-03	1.08E-06	4.05E-07	1.03E-06	4.11E-07	1.6977E-03	
520296.23	4258922.93	89132.05118	0.81224	0.23743	0.77392	0.25444	1.69E-03	1.91E-06	4.87E-07	1.82E-06	5.01E-07	1.6990E-03	
520420.49	4258852.28	89060.57918	0.37957	0.1884	0.36345	0.19948	1.69E-03	8.91E-07	3.86E-07	8.53E-07	3.93E-07	1.6960E-03	
520059.65	4258560.06	89049.42614	1.77752	13.22401	2.51946	7.13694	1.69E-03	4.17E-06	2.71E-05	5.91E-06	1.40E-05	1.7439E-03	
520158.83	4258899.58	88988.80677	3.10129	0.45178	2.75656	0.44394	1.69E-03	7.28E-06	9.27E-07	6.47E-06	8.74E-07	1.7071E-03	
520355.6	4258902.84	88837.2485	0.55113	0.2074	0.52743	0.22004	1.69E-03	1.29E-06	4.25E-07	1.24E-06	4.33E-07	1.6920E-03	
520167.94	4258382.59	88598.34995	0.46478	2.87664	0.49659	3.3318	1.68E-03	1.09E-06	5.90E-06	1.17E-06	6.56E-06	1.6988E-03	
520314.96	4258323.05	88545.19382	0.2972	0.69777	0.30643	0.76297	1.68E-03	6.98E-07	1.43E-06	7.19E-07	1.50E-06	1.6874E-03	
520095.67	4258843.53	88450.65162	13.18314	0.67038	11.92996	0.61488	1.68E-03	3.09E-05	1.37E-06	2.80E-05	1.21E-06	1.7428E-03	
520216.98	4258352.75	88323.72354	0.39123	1.58806	0.40619	1.79221	1.68E-03	9.18E-07	3.26E-06	9.54E-07	3.53E-06	1.6875E-03	
520494.05	4258709.16	88318.59411	0.24823	0.19246	0.23878	0.202	1.68E-03	5.83E-07	3.95E-07	5.61E-07	3.98E-07	1.6807E-03	
520385.47	4258829.33	88286.42159	15.98889	0.71469	20.56115	0.65689	1.68E-03	3.75E-05	1.47E-06	4.83E-05	1.29E-06	1.7667E-03	
520335.82	4258912.87	88245.9786	0.62385	0.21475	0.59673	0.22877	1.68E-03	1.46E-06	4.40E-07	1.40E-06	4.50E-07	1.6812E-03	
520150.18	4258896	88098.71859	3.56582	0.47428	3.14053	0.45972	1.67E-03	8.37E-06	9.73E-07	7.37E-06	9.05E-07	1.6922E-03	
520042.06	4258719.18	88079.22885	3.81068	1.26618	5.52515	1.18798	1.67E-03	8.95E-06	2.60E-06	1.30E-05	2.34E-06	1.7011E-03	
520306.13	4258922.92	88011.20841	0.75927	0.22988	0.72444	0.24607	1.67E-03	1.78E-06	4.71E-07	1.70E-06	4.84E-07	1.6774E-03	
520207.12	4258923.08	88004.07784	1.71365	0.3382	1.58003	0.35194	1.67E-03	4.02E-06	6.94E-07	3.71E-06	6.93E-07	1.6819E-03	
520467.94	4258374.52	87897.41161	0.21265	0.28581	0.21301	0.30356	1.67E-03	4.99E-07	5.86E-07	5.00E-07	5.98E-07	1.6730E-03	
520197.37	4258362.69	87841.00388	0.41632	1.97076	0.43748	2.2416	1.67E-03	9.77E-07	4.04E-06	1.03E-06	4.41E-06	1.6802E-03	
520305.17	4258323.02	87817.86469	0.30366	0.74945	0.31313	0.82111	1.67E-03	7.13E-07	1.54E-06	7.35E-07	1.62E-06	1.6739E-03	
520375.39	4258892.8	87732.05128	0.48809	0.19941	0.46695	0.21097	1.67E-03	1.15E-06	4.09E-07	1.10E-06	4.15E-07	1.6707E-03	
520498.81	4258598.89	87562.19374	2.42919	5.83157	3.9813	4.20921	1.66E-03	5.70E-06	1.20E-05	9.35E-06	8.29E-06	1.6997E-03	
520236.59	4258342.81	87547.55459	0.36642	1.31245	0.37799	1.46802	1.66E-03	8.60E-07	2.69E-06	8.87E-07	2.89E-06	1.6714E-03	
520447.1	4258221.24	87541.10433	0.32898	0.18428	0.31596	0.19464	1.66E-03	7.72E-07	3.78E-07	7.42E-07	3.83E-07	1.6663E-03	
520491.66	4258459.42	87478.20388	0.21308	0.24206	0.21086	0.2569	1.66E-03	5.00E-07	4.96E-07	4.95E-07	5.06E-07	1.6648E-03	
520177.4	4258913.13	87409.09588	2.40783	0.39855	2.17371	0.40135	1.66E-03	5.65E-06	8.17E-07	5.10E-06	7.90E-07	1.6739E-03	
520105.49	4258857.57	87372.27633	9.66473	0.62454	8.28388	0.57452	1.66E-03	2.27E-05	1.28E-06	1.94E-05	1.13E-06	1.7053E-03	
520469.94	4258761.77	87327.94343	0.28969	0.18498	0.27853	0.19432	1.66E-03	6.80E-07	3.79E-07	6.54E-07	3.83E-07	1.6620E-03	
520437.87	4258835.07	87317.46788	0.34624	0.18461	0.33204	0.19528	1.66E-03	8.13E-07	3.79E-07	7.80E-07	3.84E-07	1.6621E-03	
520141.52	4258892.43	87086.77204	4.17626	0.49676	3.63679	0.47496	1.66E-03	9.80E-06	1.02E-06	8.54E-06	9.35E-07	1.6757E-03	
520477.17	4258388.48	87075.35925	0.20999	0.27079	0.20991	0.28797	1.66E-03	4.93E-07	5.55E-07	4.93E-07	5.67E-07	1.6573E-03	
520459.09	4258360.72	86962.16101	0.21484	0.30114	0.21509	0.3196	1.65E-03	5.04E-07	6.18E-07	5.05E-07	6.29E-07	1.6552E-03	
520411.88	4258865.85	86891.71084	0.39885	0.1887	0.38158	0.19969	1.65E-03	9.36E-07	3.87E-07	8.96E-07	3.93E-07	1.6543E-03	
520492.07	4258481.14	86835.28691	0.21587	0.23761	0.21301	0.25246	1.65E-03	5.07E-07	4.87E-07	5.00E-07	4.97E-07	1.6526E-03	
520295.38	4258322.99	86753.41351	0.30983	0.80705	0.31937	0.88589	1.65E-03	7.27E-07	1.66E-06	7.50E-07	1.74E-06	1.6539E-03	
520316.03	4258922.9	86716.32667	0.71144	0.22283	0.67948	0.23821	1.65E-03	1.67E-06	4.57E-07	1.60E-06	4.69E-07	1.6525E-03	
520395.17	4258882.77	86698.81126	0.43949	0.19317	0.42076	0.20419	1.65E-03	1.03E-06	3.96E-07	9.88E-07	4.02E-07	1.6508E-03	
520197.22	4258923.1	86477.99166	1.90566	0.35362	1.74591	0.36421	1.64E-03	4.47E-06	7.25E-07	4.10E-06	7.17E-07	1.6538E-03	
520428.93	4258848.78	86388.47358	0.36403	0.18499	0.34867	0.19577	1.64E-03	8.55E-07	3.79E-07	8.19E-07	3.85E-07	1.6445E-03	
520037.12	4258683.15	86313.46727	3.00815	1.69355	4.21178	1.54866	1.64E-03	7.06E-06	3.47E-06	9.89E-06	3.05E-06	1.6641E-03	
520497.64	4258700.57	86271.46949	0.2431	0.19251	0.23404	0.20212	1.64E-03	5.71E-07	3.95E-07	5.49E-07	3.98E-07	1.6418E-03	
520037.12	4258673.87	86096.63812	2.90821	1.85608	4.08675	1.68053	1.64E-03	6.83E-06	3.81E-06	9.59E-06	3.31E-06	1.6601E-03	
520256.65	4258933	86042.7521	1.09249	0.26659	1.03055	0.28505	1.64E-03	2.56E-06	5.47E-07	2.42E-06	5.61E-07	1.6416E-03	
520057.47	4258780.46	86025.12259	7.2075	0.87184	13.11518	0.82308	1.64E-03	1.69E-05	1.79E-06	3.08E-05	1.62E-06	1.6864E-03	
520177.76	4258372.63	86025.76706	0.44063	2.52017	0.46895	2.89536	1.64E-03	1.03E-06	5.17E-06	1.10E-06	5.70E-06	1.6482E-03	
520246.74	4258933.02	85910.82024	1.18414	0.27722	1.11313	0.29545	1.63E-03	2.78E-06	5.69E-07	2.61E-06	5.82E-07	1.6396E-03	
520266.55	4258932.98	85866.65109	1.01048	0.25663	0.95612	0.27498	1.63E-03	2.37E-06	5.26E-07	2.24E-06	5.41E-07	1.6379E-03	
520114.98	4258871.48	85837.87886	7.42133	0.57961	6.31078	0.53665	1.63E-03	1.74E-05	1.19E-06	1.48E-05	1.06E-06	1.6661E-03	
520365.5	4258902.8	85798.09204	0.51889	0.20095	0.49639	0.21286	1.63E-03	1.22E-06	4.12E-07	1.17E-06	4.19E-07	1.6341E-03	
520053.81	4258771.61	85731.45593	6.21284	0.90891	10.19945	0.86073	1.63E-03	1.46E-05	1.86E-06	2.39E-05	1.69E-06	1.6717E-03	
520236.84	4258933.03	85622.1762	1.29024	0.28892	1.20801	0.30652	1.63E-03	3.03E-06	5.93E-07	2.84E-06	6.03E-07	1.6346E-03	
520285.59	4258322.96	85538.141	0.31585	0.87097	0.3252	0.95849	1.63E-03	7.42E-07	1.79E-06	7.63E-07	1.89E-06	1.6311E-03	
520276.45	4258922.97	85463.26966	0.93767	0.24747	0.88956	0.26544	1.62E-03	2.20E-06	5.08E-07	2.09E-06	5.23E-07	1.6298E-03	
520038.33	4258710.17	85274.87608	3.35222	1.33676	4.70555	1.24884	1.62E-03	7.87E-06	2.74E-06	1.10E-05	2.46E-06	1.6450E-03	
520325.93	4258922.89	85245.59613	0.66805	0.21621	0.63846	0.23081	1.62E-03	1.57E-06	4.43E-07	1.50E-06	4.54E-07	1.6243E-03	
520354.14	4258313.18	85182.76945	0.26637	0.54042	0.27281	0.58796	1.62E-03	6.25E-07	1.11E-06	6.40E-07	1.16E-06	1.6227E-03	
520050.14	4258762.77	85136.84696	5.39066	0.94867	8.26461	0.90042	1.62E-03	1.27E-05	1.95E-06	1.94E-05	1.77E-06	1.6541E-03	
520037.12	4258664.6	85112.04839	2.79532	2.04192	3.94425	1.82776	1.62E-03	6.56E-06	4.19E-06	9.26E-06	3.60E-06	1.6414E-03	
520167.5	4258913.15	85079.41046	2.7555	0.41645	2.4657	0.41302	1.62E-03	6.47E-06	8.54E-07	5.79E-06	8.13E-07	1.6311E-03	
520460.08	4258805.86	85022.84143	0.30734	0.18211	0.29512	0.19189	1.62E-03	7.22E-07	3.73E-07	6.93E-07	3.78E-07	1.6183E-03	
520363.93	4258313.21	85003.97983	0.26019	0.50869	0.26584	0.55255	1.62E-03	6.11E-07	1.04E-06	6.24E-07	1.09E-06	1.6191E-03	
520344.35	4258313.15	84955.34521	0.27238	0.57569	0.2797	0.62693	1.61E-03	6.39E-07	1.18E-06	6.57E-07	1.23E-06	1.6186E-03	
520266.94	4258933.05	84908.49075	1.40791	0.30099	1.3125	0.31752	1.61E-03	3.31E-06	6.17E-07	3.08E-06	6.25E-07	1.6216E-03	
520128.69	4258412.47	84869.28826	0.53388	5.78203	0.57204	6.93622	1.61E-03	1.25E-06	1.19E-05	1.34E-06	1.37E-05	1.6413E-03	
520086.7	4258839.83	84846.84843	15.5131	0.67659	18.79702	0.62227	1.61E-03	3.64E-05	1.39E-06	4.41E-05	1.22E-06	1.6959E-03	
520483.06	4258759.36	84829.09194	0.26059	0.18473	0.25002	0.19354	1.61E-03	6.33E-07	3.79E-07	6.08E-07	3.81E-07	1.6144E-03	
520420.24	4258862.39	84813.92287	0.38247	0.18536	0.36599	0.19612	1.61E-03	8.98E-07	3.80E-07	8.59E-07	3.86E-07	1.6147E-03	
520286.35	4258932.95	84772.50759	0.8717	0.23888	0.82879	0.25625	1.61E-03	2.05E-06	4.90E-07	1.95E-06	5.04E-07	1.6164E-03	
520187.32	4258923.12	84741.35392	2.13655	0.36082	1.94354	0.37629	1.61E-03	5.02E-06	7.58E-07	4.56E-06	7.41E-07	1.6219E-03	
520138.51	4258402.5	84689.81628	0.50906	4.72078	0.54585	5.58806	1.61E-03	1.20E-06	9.68E-06	1.28E-06	1.10E-05	1.6330E-03	
520207.19	4258352.72	84675.16876	0.39503	1.7698	0.41307	2.00566	1.61E-03	9.27E-07	3.63E-06	9.70E-07	3.95E-06	1.6190E-03	
520096.64	4258853.92	84649.24094	12.79461	0.63582	11.3963	0.58375	1.61E-03	3.00E-05	1.30E-06	2.68E-05	1.15E-06	1.6683E-03	
520226.8	4258342.78	84608.7405	0.37117	1.44683	0.38455	1.62425	1.61E-03	8.71E-07	2.97E-06	9.03E-07	3.20E-06	1.6162E-03	
520486.59	4258750.92	84584.79065	0.26399	0.18544	0.25367	0.19413	1.61E-03	6.20E-07	3.80E-07	5.96E-07	3.82E-07	1.6098E-03	
520334.57	4258313.11	84577.71676	0.27838	0.61442	0.28644	0.66981	1.61E-03	6.54E-07	1.26E-06	6.72E-07	1.32E-06	1.6116E-03	
520373.72	4258313.24	84481.01086	0.25395	0.47998	0.25888	0.52032	1.61E-03	5.96E-07	9.84E-07	6.08E-07	1.02E-06	1.6090E-03	
520158.45	4258909.41	84423.11546	3.14453	0.43791	2.78975	0.42853	1.60E-03	7.38E-06	8.98E-07	6.55E-06	8.44E-07	1.6204E-03	
520385.29	4258892.79	84420.26823	0.46258	0.19364	0.44224	0.20474	1.60E-03	1.09E-06	3.97E-07	1.04E-06	4.03E-07	1.6076E-03	
520046.47	4258753.92	84226.81337	4.706	0.99228	6.88273	0.94258	1.60E-03	1.10E-05	2.04E-06	1.61E-05	1.86E-06	1.6321E-03	
520217.04	4258933.07	84164.13002	1.55042	0.31456	1.43789	0.32938	1.60E-03	3.64E-06	6.45E-07	3.38E-06	6.48E-07	1.6081E-03	
520490.12	4258742.49	84094.04676	0.25851	0.18602	0.24843	0.19465	1.60E-03	6.07E-07	3.82E-07	5.83E-07	3.83E-07	1.6004E-03	
520467.58	4258364.35	84072.84981	0.21063	0.28877	0.21095	0.30631	1.60E-03	4.94E-07	5.92E-07	4.95E-07	6.03E-07	1.6003E-03	
520324.78	4258313.08	84043.90616	0.28434	0.65718	0.29295	0.71726	1.60E-03	6.68E-07	1.35E-06	6.88E-07	1.41E-06	1.6016E-03	
520469	4258792.16	84036.50388	0.29284	0.18196	0.28137	0.19129	1.60E-03	6.87E-07	3.73E-07	6.61E-07	3.77E-07	1.5995E-03	
520296.25	4258932.93	83924.57811	0.81299	0.23103	0.77432	0.24769	1.60E-03	1.91E-06	4.74E-07	1.82E-06	4.88E-07	1.5999E-03	
520501.24	4258691.98	83912.43596	0.23812	0.19253	0.22946	0.20211	1.60E-03	5.59E-07	3.95E-07	5.39E-07	3.98E-07	1.5969E-03	
520486.91	4258402.66	83895.79415	0.20675	0.25673	0.2059	0.27297	1.59E-03	4.85E-07	5.27E-07	4.83E-07	5.37E-07	1.5967E-03	
520476.56	4258378.21	83890.01941	0.20826	0.27413	0.20848	0.2911	1.59E-03	4.89E-07	5.62E-07	4.89E-07	5.73E-07	1.5967E-03	
520275.8	4258322.93	83879.73668	0.32137	0.94295	0.33071	1.03988	1.59E-03	7.54E-07	1.93E-06	7.76E-07	2.06E-06	1.5999E-03	
520355.62	4258912.84	83849.80489	0.55374	0.20256	0.52963	0.21506	1.59E-03	1.30E-06	4.15E-07	1.24E-06	4.23E-07	1.5972E-03	
520383.51	4258313.27	83845.36076	0.24786	0.45358	0.25198	0.49083	1.59E-03	5.82E-07	9.30E-07	5.92E-07	9.66E-07	1.5968E-03	
520062.79	4258799.98	83784.65051	9.1055	0.78993	17.2231	0.74233	1.59E-03	2.14E-05	1.62E-06	4.04E-05	1.46E-06	1.6575E-03	
520118.87	4258422.44	83548.15397	0.55801	7.30821	0.59824	8.88098	1.59E-03	1.31E-06	1.50E-05	1.40E-06	1.75E-05	1.6233E-03	
520446.42	4258831.53	83485.86277	0.33184	0.18118	0.31839	0.19143	1.59E-03	7.79E-07	3.72E-07	7.47E-07	3.77E-07	1.5892E-03	
520149.41	4258905.68	83439.71275	3.62542	0.45927	3.18866	0.44337	1.59E-03	8.51E-06	9.42E-07	7.49E-06	8.73E-07	1.6039E-03	
520187.58	4258362.66	83355.63517	0.41815	2.22831	0.44301	2.54502	1.58E-03	9.82E-07	4.57E-06	1.04E-06	5.01E-06	1.5960E-03	
520037.12	4258655.32	83341.36916	2.66772	2.25418	3.78072	1.99134	1.58E-03	6.26E-06	4.62E-06	8.88E-06	3.92E-06	1.6079E-03	
520314.99	4258313.05	83342.88378	0.29021	0.70441	0.29916	0.76989	1.58E-03	6.81E-07	1.44E-06	7.02E-07	1.52E-06	1.5885E-03	
520493.65	4258734.05	83340.7498	0.25318	0.18641	0.24332	0.19506	1.58E-03	5.94E-07	3.82E-07	5.71E-07	3.84E-07	1.5861E-03	
520099.2	4258452.38	83321.50609	0.65953	13.82893	0.72015	15.83704	1.58E-03	1.55E-06	2.84E-05	1.69E-06	3.12E-05	1.6466E-03	
520106.23	4258867.87	83315.69847	9.42837	0.59373	8.05927	0.54667	1.58E-03	2.21E-05	1.22E-06	1.89E-05	1.08E-06	1.6270E-03	
520495	4258468.18	83231.41901	0.21203	0.23691	0.20952	0.2515	1.58E-03	4.98E-07	4.86E-07	4.92E-07	4.95E-07	1.5840E-03	
520455.76	4258817.66	83217.08052	0.31543	0.18071	0.30293	0.19061	1.58E-03	7.41E-07	3.71E-07	7.11E-07	3.75E-07	1.5840E-03	
520207.14	4258933.08	83054.71724	1.71329	0.3286	1.58002	0.34105	1.58E-03	4.02E-06	6.74E-07	3.71E-06	6.71E-07	1.5878E-03	
520437.38	4258845.28	83034.34485	0.34882	0.18151	0.3342	0.19196	1.58E-03	8.19E-07	3.72E-07	7.85E-07	3.78E-07	1.5807E-03	
520393.3	4258313.3	83003.82002	0.24186	0.42934	0.24517	0.46378	1.58E-03	5.68E-07	8.81E-07	5.76E-07	9.13E-07	1.5807E-03	
520306.15	4258932.92	82899.00474	0.76019	0.22377	0.72501	0.23967	1.58E-03	1.78E-06	4.59E-07	1.70E-06	4.72E-07	1.5802E-03	
520458.9	4258350.62	82855.9088	0.2126	0.30362	0.21261	0.3221	1.57E-03	4.99E-07	6.23E-07	4.99E-07	6.34E-07	1.5772E-03	
520375.41	4258902.8	82853.60398	0.49052	0.19513	0.46898	0.20646	1.57E-03	1.15E-06	4.00E-07	1.10E-06	4.06E-07	1.5780E-03	
520042.8	4258745.07	82846.17439	4.07594	1.04073	5.84402	0.98707	1.57E-03	9.57E-06	2.13E-06	1.37E-05	1.94E-06	1.6021E-03	
520411.74	4258875.91	82803.16042	0.40161	0.18608	0.38461

520187.34	4258933.12	80126.97819	2.13587	0.35878	1.94382	0.36395	1.52E-03	5.01E-06	7.36E-07	4.56E-06	7.16E-07	1.5341E-03
520109.05	4258432.41	80126.01377	0.58058	9.67626	0.6247	11.73287	1.52E-03	1.36E-06	1.98E-05	1.47E-06	2.31E-05	1.5688E-03
520285.62	4258312.96	80121.11756	0.30683	0.87886	0.31559	0.9667	1.52E-03	7.20E-07	1.80E-06	7.41E-07	1.90E-06	1.5281E-03
520256.23	4258322.87	80043.96576	0.33155	1.11416	0.34147	1.23588	1.52E-03	7.78E-07	2.29E-06	8.02E-07	2.43E-06	1.5278E-03
520344.39	4258303.15	79979.58935	0.2667	0.58118	0.27436	0.63209	1.52E-03	6.26E-07	1.19E-06	6.44E-07	1.24E-06	1.5240E-03
520385.31	4258902.79	79844.22355	0.46486	0.18966	0.44413	0.20051	1.52E-03	1.09E-06	3.89E-07	1.04E-06	3.95E-07	1.5206E-03
520373.75	4258303.24	79827.35624	0.24965	0.48382	0.25515	0.52432	1.52E-03	5.86E-07	9.92E-07	5.99E-07	1.03E-06	1.5206E-03
520039.93	4258628.02	79775.93649	2.41343	3.19592	3.54716	2.66784	1.52E-03	5.67E-06	6.55E-06	8.33E-06	5.25E-06	1.5422E-03
520454.97	4258827.99	79634.16971	0.31831	0.17775	0.30546	0.18757	1.51E-03	7.47E-07	3.65E-07	7.17E-07	3.69E-07	1.5159E-03
520445.83	4258441.78	79624.06708	0.33447	0.17816	0.3206	0.18825	1.51E-03	7.85E-07	3.65E-07	7.53E-07	3.71E-07	1.5158E-03
520217.06	4258943.07	79598.74258	1.55311	0.30621	1.44023	0.31982	1.51E-03	3.65E-06	6.28E-07	3.38E-06	6.30E-07	1.5213E-03
520106.9	4258878.14	79592.53197	9.27436	0.56579	7.88558	0.52127	1.51E-03	2.18E-05	1.16E-06	1.85E-05	1.03E-06	1.5554E-03
520334.6	4258323.11	79571.2515	0.27221	0.62044	0.28043	0.67543	1.51E-03	6.39E-07	1.27E-06	6.58E-07	1.33E-06	1.5164E-03
520485.18	4258381.89	79435.61216	0.20392	0.26292	0.20387	0.27919	1.51E-03	4.79E-07	5.39E-07	4.79E-07	5.50E-07	1.5120E-03
520296.27	4258942.93	79403.39654	0.81626	0.22547	0.77708	0.24181	1.51E-03	1.92E-06	4.62E-07	1.82E-06	4.76E-07	1.5140E-03
520504.24	4258708.75	79354.08959	0.23819	0.1863	0.22894	0.19538	1.51E-03	5.59E-07	3.82E-07	5.37E-07	3.85E-07	1.5102E-03
520149.63	4258915.77	79352.06123	3.6386	0.44297	3.19633	0.4266	1.51E-03	8.54E-06	9.08E-07	7.50E-06	8.40E-07	1.5261E-03
520355.64	4258922.84	79292.56644	0.55628	0.19786	0.53174	0.21024	1.51E-03	1.31E-06	4.06E-07	1.25E-06	4.14E-07	1.5106E-03
520383.54	4258303.27	79269.90217	0.24389	0.45703	0.24865	0.49448	1.51E-03	5.73E-07	9.37E-07	5.84E-07	9.73E-07	1.5098E-03
520122.26	4258894.47	79223.38425	6.21394	0.51791	5.29762	0.48235	1.51E-03	1.46E-05	1.06E-06	1.24E-05	9.50E-07	1.5349E-03
520035.46	4258727.38	79056.73053	3.17942	1.14665	4.3631	1.08125	1.50E-03	7.46E-06	2.35E-06	1.02E-05	2.13E-06	1.5249E-03
520436.96	4258855.46	79034.08975	0.35115	0.1786	0.33628	0.18878	1.50E-03	8.24E-07	3.66E-07	7.89E-07	3.72E-07	1.5046E-03
520324.81	4258303.08	79029.16922	0.27767	0.66362	0.28623	0.72332	1.50E-03	6.52E-07	1.36E-06	6.72E-07	1.42E-06	1.5063E-03
520498.73	4258472.76	78962.63874	0.21011	0.23264	0.20742	0.24691	1.50E-03	4.93E-07	4.77E-07	4.87E-07	4.86E-07	1.5029E-03
520464.43	4258814.07	78957.92413	0.30273	0.17716	0.29053	0.18661	1.50E-03	7.11E-07	3.63E-07	6.82E-07	3.67E-07	1.5030E-03
520275.83	4258312.93	78691.36112	0.31196	0.95034	0.32056	1.04871	1.50E-03	7.32E-07	1.95E-06	7.53E-07	2.06E-06	1.5013E-03
520460.13	4258341.14	78645.5454	0.20967	0.3039	0.20955	0.3223	1.49E-03	4.92E-07	6.23E-07	4.92E-07	6.34E-07	1.4972E-03
520207.16	4258943.08	78627.4054	1.71736	0.31979	1.58363	0.33095	1.49E-03	4.03E-06	6.56E-07	3.72E-06	6.51E-07	1.5036E-03
520177.79	4258362.63	78607.96467	0.418	2.54047	0.44545	2.9151	1.49E-03	9.81E-07	5.21E-06	1.05E-06	5.74E-06	1.5072E-03
520422.66	4258313.39	78547.58632	0.22426	0.36824	0.22566	0.3951	1.49E-03	5.26E-07	7.55E-07	5.30E-07	7.78E-07	1.4956E-03
520050.47	4258787.67	78493.0757	5.58704	0.80977	8.52941	0.77145	1.49E-03	1.31E-05	1.66E-06	2.00E-05	1.52E-06	1.5283E-03
520393.33	4258303.3	78478.34033	0.23816	0.43252	0.24219	0.46715	1.49E-03	5.59E-07	8.87E-07	5.69E-07	9.20E-07	1.4947E-03
520306.17	4258942.92	78431.78803	0.76306	0.21838	0.72739	0.234	1.49E-03	1.79E-06	4.48E-07	1.71E-06	4.61E-07	1.4953E-03
520375.42	4258912.8	78394.92152	0.49293	0.19092	0.47098	0.20209	1.49E-03	1.16E-06	3.92E-07	1.11E-06	3.98E-07	1.4932E-03
520177.44	4258933.13	78330.79093	2.41362	0.37444	2.17996	0.37465	1.49E-03	5.67E-06	7.68E-07	5.12E-06	7.37E-07	1.5012E-03
520315.02	4258303.05	78316.24048	0.28301	0.71123	0.2917	0.77638	1.49E-03	6.64E-07	1.46E-06	6.85E-07	1.53E-06	1.4930E-03
520140.68	4258912.07	78280.52614	4.25323	0.4621	3.69915	0.43945	1.49E-03	9.99E-06	9.48E-07	8.68E-06	8.65E-07	1.5085E-03
520412.58	4258885.57	78250.13456	0.40134	0.18236	0.38438	0.19252	1.49E-03	9.42E-07	3.74E-07	9.02E-07	3.79E-07	1.4900E-03
520088.74	4258860.65	78206.10544	16.02295	0.60987	16.37117	0.56171	1.49E-03	3.76E-05	1.25E-06	3.84E-05	1.11E-06	1.5650E-03
520207.22	4258342.72	78147.29737	0.37809	1.78474	0.39683	2.02086	1.49E-03	8.88E-07	3.66E-06	9.32E-07	3.98E-06	1.4949E-03
520046.85	4258778.96	78054.39662	4.901	0.84193	7.12507	0.8038	1.48E-03	1.15E-05	1.73E-06	1.67E-05	1.58E-06	1.5152E-03
520246.44	4258322.84	77964.37974	1.21648	0.34696	1.35504	1.38504	1.48E-03	7.89E-07	2.49E-06	8.15E-07	2.67E-06	1.4887E-03
520037.12	4258636.77	77919.31872	2.36049	2.7619	3.37405	2.36154	1.48E-03	5.54E-06	5.66E-06	7.92E-06	4.65E-06	1.5049E-03
520428.3	4258869.05	77886.73301	0.36857	0.17885	0.3525	0.18903	1.48E-03	8.65E-07	3.67E-07	8.28E-07	3.72E-07	1.4829E-03
520475.66	4258357.8	77565.92053	0.20456	0.27989	0.20479	0.29645	1.47E-03	4.80E-07	5.74E-07	4.81E-07	5.84E-07	1.4765E-03
520395.21	4258902.77	77500.39846	0.44325	0.18545	0.42372	0.19583	1.47E-03	1.04E-06	3.80E-07	9.95E-07	3.85E-07	1.4759E-03
520197.26	4258943.1	77485.29514	1.91419	0.33419	1.7537	0.34208	1.47E-03	4.49E-06	6.85E-07	4.12E-06	6.73E-07	1.4828E-03
520305.23	4258303.02	77479.08522	0.28826	0.76367	0.29683	0.83537	1.47E-03	6.77E-07	1.57E-06	6.97E-07	1.64E-06	1.4773E-03
520507.78	4258700.32	77468.08167	0.23346	0.18628	0.22457	0.19541	1.47E-03	5.48E-07	3.82E-07	5.27E-07	3.85E-07	1.4744E-03
520098.24	4258874.57	77417.46248	12.15308	0.57499	10.5781	0.52892	1.47E-03	2.85E-05	1.18E-06	2.48E-05	1.04E-06	1.5272E-03
520403.12	4258303.33	77411.59075	0.23246	0.41009	0.23581	0.44206	1.47E-03	5.46E-07	8.41E-07	5.54E-07	8.70E-07	1.4743E-03
520030.86	4258692.16	77403.4986	2.57417	1.49019	3.46039	1.37293	1.47E-03	6.04E-06	3.06E-06	8.12E-06	2.70E-06	1.4912E-03
520495.89	4258406.5	77380.79645	0.20196	0.24645	0.20076	0.26172	1.47E-03	4.74E-07	5.05E-07	4.71E-07	5.15E-07	1.4728E-03
520043.24	4258770.25	77368.64241	4.33457	0.87654	6.06921	0.8378	1.47E-03	1.02E-05	1.80E-06	1.42E-05	1.65E-06	1.4985E-03
520113.21	4258806.74	77365.35578	7.808	0.53266	6.60339	0.49243	1.47E-03	1.83E-05	1.09E-06	1.55E-05	9.69E-07	1.5065E-03
520493.54	4258758.26	77224.65896	0.25772	0.17913	0.24735	0.18743	1.47E-03	6.05E-07	3.67E-07	5.81E-07	3.69E-07	1.4698E-03
520316.07	4258942.9	77222.23292	0.71416	0.21161	0.68139	0.22648	1.47E-03	1.68E-06	4.34E-07	1.60E-06	4.46E-07	1.4720E-03
520256.68	4258953	77145.54208	1.10197	0.25412	1.03864	0.27095	1.47E-03	2.59E-06	5.21E-07	2.44E-06	5.33E-07	1.4725E-03
520266.58	4258952.98	77040.60969	1.02017	0.24479	0.96443	0.26176	1.46E-03	2.40E-06	5.02E-07	2.26E-06	5.15E-07	1.4701E-03
520246.78	4258953.02	77033.96563	1.19408	0.26413	1.1216	0.2805	1.46E-03	2.80E-06	5.42E-07	2.63E-06	5.52E-07	1.4708E-03
520266.05	4258312.9	76944.84649	0.31663	1.03088	0.32552	1.1411	1.46E-03	7.43E-07	2.11E-06	7.64E-07	2.25E-06	1.4685E-03
520498.55	4258417.66	76927.8609	0.20218	0.24199	0.2006	0.25678	1.46E-03	4.75E-07	4.96E-07	4.71E-07	5.05E-07	1.4642E-03
520484.55	4258371.61	76913.90397	0.2023	0.26598	0.20249	0.28205	1.46E-03	4.75E-07	5.46E-07	4.75E-07	5.55E-07	1.4640E-03
520497.01	4258749.96	76854.22454	0.25258	0.17974	0.24242	0.18795	1.46E-03	5.93E-07	3.69E-07	5.69E-07	3.70E-07	1.4628E-03
520365.54	4258922.82	76842.902	0.52433	0.19216	0.50096	0.20386	1.46E-03	1.23E-06	3.94E-07	1.18E-06	4.01E-07	1.4638E-03
520236.88	4258953.03	76756.58558	1.2998	0.27496	1.21615	0.29049	1.46E-03	3.05E-06	5.64E-07	2.86E-06	5.72E-07	1.4660E-03
520055.61	4258807.01	76755.09214	6.85081	0.7368	11.62339	0.6997	1.46E-03	1.61E-05	1.51E-06	2.73E-05	1.38E-06	1.5052E-03
520276.48	4258952.97	76682.1285	0.94657	0.23605	0.89719	0.2529	1.46E-03	2.22E-06	4.84E-07	2.11E-06	4.98E-07	1.4629E-03
520049.73	4258579.49	76635.26388	1.80328	6.83525	2.68075	4.70097	1.46E-03	4.23E-06	1.40E-05	6.29E-06	9.25E-06	1.4905E-03
520476.32	4258799.14	76598.81114	0.28475	0.17575	0.27333	0.18465	1.46E-03	6.69E-07	3.60E-07	6.42E-07	3.63E-07	1.4580E-03
520187.61	4258352.66	76567.33172	0.39821	2.24465	0.42266	2.56378	1.46E-03	9.35E-07	4.60E-06	9.92E-07	5.05E-06	1.4670E-03
520432.45	4258313.42	76546.89046	0.21865	0.35085	0.21953	0.37555	1.46E-03	5.13E-07	7.20E-07	5.15E-07	7.39E-07	1.4575E-03
520031.79	4258718.53	76520.60235	2.82848	1.20472	3.79988	1.13079	1.45E-03	6.64E-06	2.47E-06	8.92E-06	2.23E-06	1.4748E-03
520167.54	4258933.15	76446.35243	2.76438	0.39035	2.47459	0.38475	1.45E-03	6.49E-06	8.01E-07	5.81E-06	7.57E-07	1.4670E-03
520039.63	4258761.54	76401.44978	3.83276	0.91431	5.24334	0.87365	1.45E-03	9.00E-06	1.88E-06	1.23E-05	1.72E-06	1.4772E-03
520469.11	4258344.98	76399.46786	0.20551	0.29094	0.20546	0.30814	1.45E-03	4.82E-07	5.97E-07	4.82E-07	6.07E-07	1.4544E-03
520295.44	4258302.99	76388.51946	0.29324	0.82185	0.30166	0.90105	1.45E-03	6.88E-07	1.69E-06	7.08E-07	1.77E-06	1.4560E-03
520494.72	4258395.99	76276.86134	0.2009	0.24965	0.20013	0.26514	1.45E-03	4.72E-07	5.12E-07	4.70E-07	5.22E-07	1.4519E-03
520226.98	4258953.05	76237.01047	1.42038	0.28643	1.3232	0.30069	1.45E-03	3.33E-06	5.87E-07	3.11E-06	5.92E-07	1.4567E-03
520454.28	4258838.28	76180.19624	0.32097	0.17484	0.30774	0.18455	1.45E-03	7.54E-07	3.59E-07	7.22E-07	3.63E-07	1.4502E-03
520412.91	4258303.36	76172.2929	0.22689	0.38932	0.22953	0.4189	1.45E-03	5.33E-07	7.98E-07	5.39E-07	8.25E-07	1.4506E-03
520286.38	4258952.95	76092.47681	0.88012	0.22789	0.83602	0.2444	1.45E-03	2.07E-06	4.67E-07	1.96E-06	4.81E-07	1.4514E-03
520138.54	4258392.5	76027.56458	0.47575	4.7484	0.50733	5.62239	1.45E-03	1.12E-06	9.74E-06	1.19E-06	1.11E-05	1.4683E-03
520325.97	4258942.89	76017.28085	0.67117	0.20558	0.64071	0.21975	1.44E-03	1.58E-06	4.22E-07	1.50E-06	4.33E-07	1.4489E-03
520158.68	4258929.5	76001.6616	3.14859	0.40883	2.79418	0.3979	1.44E-03	7.39E-06	8.38E-07	6.56E-06	7.83E-07	1.4602E-03
520403.81	4258899.21	75992.59783	0.42272	0.18223	0.40427	0.19233	1.44E-03	9.92E-07	3.74E-07	9.49E-07	3.79E-07	1.4472E-03
520187.36	4258943.12	75973.73844	2.14094	0.34858	1.94853	0.35246	1.44E-03	5.03E-06	7.15E-07	4.57E-06	6.94E-07	1.4551E-03
520445.32	4258852	75969.32815	0.33688	0.17524	0.32266	0.18512	1.44E-03	7.91E-07	3.59E-07	7.58E-07	3.64E-07	1.4463E-03
520501.93	4258460.52	75951.76887	0.20639	0.23203	0.20399	0.24597	1.44E-03	4.85E-07	4.76E-07	4.79E-07	4.84E-07	1.4456E-03
520421.28	4258881.97	75911.09958	0.3838	0.17823	0.36659	0.18829	1.44E-03	9.01E-07	3.66E-07	8.61E-07	3.71E-07	1.4454E-03
520463.52	4258824.45	75831.00993	0.3056	0.1744	0.29321	0.1838	1.44E-03	7.17E-07	3.58E-07	6.88E-07	3.62E-07	1.4435E-03
520363.99	4258293.21	75819.93839	0.2507	0.5175	0.25727	0.56129	1.44E-03	5.89E-07	1.06E-06	6.04E-07	1.10E-06	1.4446E-03
520039.89	4258618.32	75816.89227	2.18261	3.55246	3.20466	2.89523	1.44E-03	5.12E-06	7.29E-06	7.52E-06	5.70E-06	1.4668E-03
520354.21	4258293.18	75763.00651	0.25594	0.55038	0.26316	0.59747	1.44E-03	6.01E-07	1.13E-06	6.18E-07	1.18E-06	1.4436E-03
520128.72	4258402.47	75722.37547	0.49649	5.81651	0.52906	6.95403	1.44E-03	1.17E-06	1.19E-05	1.24E-06	1.37E-05	1.4674E-03
520385.32	4258912.79	75586.71947	0.46683	0.18565	0.44572	0.19628	1.44E-03	1.10E-06	3.81E-07	1.05E-06	3.86E-07	1.4397E-03
520217.07	4258953.07	75556.66473	1.56182	0.29877	1.44772	0.31117	1.44E-03	3.67E-06	6.13E-07	3.40E-06	6.13E-07	1.4445E-03
520502.07	4258481.52	75536.02711	0.20897	0.22825	0.20593	0.24224	1.44E-03	4.91E-07	4.68E-07	4.83E-07	4.77E-07	1.4377E-03
520373.78	4258429.24	75528.79499	0.24528	0.4878	0.25126	0.5283	1.44E-03	5.76E-07	1.00E-06	5.90E-07	1.04E-06	1.4388E-03
520503.97	4258733.34	75469.4977	0.2426	0.18056	0.2329	0.18881	1.43E-03	5.70E-07	3.70E-07	5.47E-07	3.72E-07	1.4364E-03
520344.42	4258293.15	75420.53629	0.26102	0.58667	0.26884	0.63718	1.43E-03	6.13E-07	1.20E-06	6.31E-07	1.25E-06	1.4373E-03
520236.65	4258322.81	75401.00747	0.33995	1.33482	0.35255	1.49105	1.43E-03	7.98E-07	2.74E-06	8.28E-07	2.94E-06	1.4405E-03
520149.83	4258925.84	75366.93052	3.63076	0.42717	3.19091	0.41056	1.43E-03	8.52E-06	8.76E-07	7.49E-06	8.08E-07	1.4503E-03
520511.31	4258691.88	75365.9069	0.22891	0.18619	0.22034	0.19527	1.43E-03	5.37E-07	3.82E-07	5.17E-07	3.84E-07	1.4344E-03
520296.28	4258952.93	75338.84159	0.82056	0.22038	0.78079	0.23637	1.43E-03	1.93E-06	4.52E-07	1.83E-06	4.65E-07	1.4367E-03
520104.16	4258887	75300.2271	10.10179	0.54366	8.57809	0.50072	1.43E-03	2.37E-05	1.12E-06	2.01E-05	9.86E-07	1.4773E-03
520058.16	4258818.05	75272.16268	7.62198	0.69903	14.115	0.66257	1.43E-03	1.79E-05	1.43E-06	3.31E-05	1.30E-06	1.4846E-03
520285.65	4258302.96	75156.19859	0.29805	0.88627	0.30631	0.9745	1.43E-03	7.00E-07	1.82E-06	7.19E-07	1.92E-06	1.4337E-03
520485.42	4258785.36	75101.85031	0.27145	0.17541	0.26062	0.1839	1.43E-03	6.37E-07	3.60E-07	6.12E-07	3.62E-07	1.4295E-03
520355.65	4258932.84	75066.0684	0.55847	0.19327	0.53347	0.20553	1.43E-03	1.31E-06	3.96E-07	1.25E-06	4.05E-07	1.4302E-03
520383.57	4258293.27	75060.64076	0.23987	0.46059	0.24518	0.49812	1.43E-03	5.63E-07	9.45E-07	5.76E-07	9.81E-07	1.4298E-03
520036.02	4258752.83	75052.24888	3.38224	0.95608	4.58254	0.9115	1.43E-03	7.94E-06	1.96E-06	1.08E-05	1.79E-06	1.4490E-03
520089.59	4258871	75039.22448	15.72186	0.58037	15.50529	0.535	1.43E-03	3.69E-05	1.19E-06	3.64E-05	1.05E-06	1.5019E-03
520502.59	4258436.39	75020.34348	0.20256	0.23519	0.20055	0.24923	1.43E-03	4.76E-07	4.82E-07	4.71E-07	4.91E-07	1.4279E-03
520334.63	4258293.11	75009.00662	0.2661	0.6263	0.27426	0.68091	1.43E-03	6.25E-07	1.28E-06	6.44E-07	1.34E-06	1.4297E-03
520256.26	4258312.87	74969.22689	0.32091	1.12196	0.33059	1.24591	1.43E-03	7.53E-07	2.30E-06	7.76E-07	2.45E-06	1.4313E-03
520473.09	4258810.48	74861.36577	0.29072	0.17375	0.27888	0.18276	1.42E-03	6.83E-07	3.56E-07	6.55E-07	3.60E-07	1.4250E-03
520158.18	4258372.56	74757.83843	0.43497	3.18278	0.46459	3.9306	1.42E-03	1.02E-06	6.94E-06	1.09E-06	7.74E-06	1.4378E-03
520493.79	4258385.58	74689.22515	0.19962	0.25255	0.19925	0.26809	1.42E-03	4.69E-07	5.18E-07	4.68E-07	5.28E-07	1.4217E-03
520207.17	4258953.08	74642.16494	1.72594	0.31171	1.591	0.32161	1.42E-03	4.05E-06	6.39E-07	3.74E-06	6.33E-07	1.4279E-03
520422.69	4258303.39	74633.91322	0.22138	0.37028	0.2234	0.39757	1.42E-03	5.20E-07	7.59E-07	5.24E-07	7.83E-07	1.4212E-03
520140.98	4258922.19	74510.57663	4.24523	0.44483	3.69181	0.42242	1.42E-03	9.97E-06	9.12E-07	8.67E-06	8.32E-07	1.4367E-03
520197.43	4258342.69	74468.70069	0.37953	2.0021	0.40128	2.27492	1.42E-03	8.91E-07	4.11E-06	9.42E-07	4.48E-06	1.4259E-03
520324.84	4258293.08	74429.72358	0.27106	0.66986	0.27939	0.72918	1.41E-03	6.36E-07	1.37E-06	6.56E-07	1.44E-06	1.4189E-03
520507.45	4258725.04	74424.95008	0.23785	0.18059	0.22832	0.18898	1.41E-03	5.58E-07	3.70E-07	5.36E-07	3.72E-07	1.4165E-03
520306.18	4258952.92	74410.60542	0.76677	0.21342	0.73054	0.22876	1.41E-03	1.80E-06	4.38E-07	1.72E-06	4.50E-07	1.4188E-03
520393.36	4258293.3	74400.34664	0.23448	0.43564	0.23909	0.47045	1.41E-03	5.50E-07	8.93E-07	5.61E-07	9.26E-07	1.4171E-03
520118.9	4258412.44	74368.84836	0.51686	7.34987	0.55101	8.90376	1.41E-03	1.21E-06	1.51E-05	1.29E-06	1.75E-05	1.4487E-03
520177.45	4258943.13	74363.35587	2.42152	0.36349	2.18704	0.36251	1.41E-03	5.68E-06	7.45E-07	5.13E-06	7.14E-07	1.4258E-03
520484.04	4258361.38	74329.02332	0.2006	0.2688	0.20083	0.28465	1.41E-03	4.71E-07	5.51E-07	4.71E-07	5.60E-07	1.4149E-03
520375.44	4258922.8	74286.04518	0.49518	0.18676	0.47282	0.19781	1.41E-03	1.16E-06	3.83E-07	1.11E-06	3.89E-07	1.4151E-03
520412.42	4258895.64	74253.06182	0.40336	0.17899	0.38603	0.18884	1.41E-03	9.47E-07	3.67E-07	9.06E-07	3.72E-07	1.4140E-03
520442.24	4258313.45	74208.60134	0.21313	0.33489	0.21363	0.35755	1.41E-03	5.00E-07	6.87E-07	5.02E-07	7.04E-07	1.4130E-03
520099.23	4258442.38	74145.44306	0.60121	13.83618	0.65228	15.87986	1.41E-03	1.41E-06	2.84E-05	1.53E-06	3.13E-05	1.4719E-03
520113.85	4258901	73741.63813	7.63126	0.50878	6.47059	0.47072	1.40E-03	1.79E-05	1.04E-06	1.52E-05	9.27E-07	1.4368E-03
520315.05	4258293.05	73707.98484	0.27592	0.71775	0.28422	0.78262	1.40E-03	6.48E-07	1.47E-06	6.67E-07	1.54E-06	1.4054E-03
520275.87	4258302.93	73683.33507	0.30253	0.9582	0.31091	1.05683	1.40E-03	7.10E-07	1.97E-06	7.30E-07	2.08E-06	1.4061E-03
520478.09	4258348.82	73637.53636	0.20134	0.27882	0.20144	0.29499	1.40E-03	4.73E-07	5.72E-07	4.73E-07	5.81E-07	1.4018E-03
520197.27	4258953.1	73566.49119	1.92181	0.32535	1.76036	0.33197	1.40E-03	4.51E-06	6.67E-07	4.13E-06	6.53E-07	1.4083E-03
520168	4258362.6	73564.39921	0.41557	2.92447	0.44361	3.3734	1.40E-03	9.76E-07	6.00E-06	1.04E-06	6.64E-06	1.4130E-03
520429.98	4258878.37	73497.89285	0.36703	0.17482	0.35059	0.18467	1.40E-03	8.62E-07	3.59E-07	8.23E-07	3.64E-07	1.3995E-03
520403.15	4258293.33	73454.41056	0.22907	0.41288	0.23304	0.44507	1.40E-03	5.38E-07	8.47E-07	5.47E-07	8.76E-07	1.3990E-03
520395.22	4258912.77	73444.12269	0.44498	0.18165	0.42512	0.19179	1.40E-03	1.04E-06	3.73E-07	9.98E-07	3.78E-07	1.3988E-03
520316.08	4258952.9	73443.53345	0.7191	0.20712	0.68573	0.21277	1.40E-03	1.69E-06	4.25E-07	1.61E-06	4.37E-07	1.4002E-03
520028.13	4258709.69	73429.87436	2.51027	1.2658	3.31777	1.18093	1.40E-03	5.89E-06	2.60E-06	7.79E-06	2.32E-06	1.4144E-03
520095.11	4258883.27	73247.94411	13.41912	0.55083	11.92286	0.50742	1.39E-03	3.15E-05	1.13E-06	2.80E-05	9.99E-07	1.4539E-03
520032.4	4258744.12	73238.47406	2.97135	1.00074	4.00913	0.94988	1.39E-03	6.98E-06	2.05E-06	9.41E-06	1.87E-06	1.4124E-03
520450.96	4258317.18	73194.4279	0.20922	0.32099	0.20931	0.3418	1.39E-03	4.91E-07	6.58E-07	4.91E-07

520028.79	4258735.41	71417.85438	2.69044	1.04649	3.55652	0.99022	1.36E-03	6.32E-06	2.15E-06	8.35E-06	1.95E-06	1.3763E-03	
520039.88	4258786.27	71365.23448	3.97141	0.78326	5.39742	0.75236	1.36E-03	9.32E-06	1.61E-06	1.27E-05	1.48E-06	1.3816E-03	
520296.3	4258962.93	71292.11391	0.82087	0.2149	0.78068	0.23051	1.36E-03	1.93E-06	4.41E-07	1.83E-06	4.54E-07	1.3598E-03	
520344.45	4258283.15	71251.34477	0.25538	0.59202	0.26316	0.64215	1.35E-03	6.00E-07	1.21E-06	6.18E-07	1.26E-06	1.3581E-03	
520383.6	4258283.27	71188.49988	0.23583	0.46421	0.24156	0.50172	1.35E-03	5.54E-07	9.52E-07	5.67E-07	9.88E-07	1.3562E-03	
520109.08	4258422.41	71182.74741	0.53535	9.71718	0.57288	11.77283	1.35E-03	1.26E-06	1.99E-05	1.34E-06	2.32E-05	1.3988E-03	
520355.67	4258942.84	71151.98925	0.56033	0.18881	0.53486	0.20094	1.35E-03	1.32E-06	3.87E-07	1.26E-06	3.96E-07	1.3558E-03	
520504.86	4258410.35	71016.76731	0.19731	0.2372	0.19582	0.25149	1.35E-03	4.63E-07	4.86E-07	4.60E-07	4.95E-07	1.3518E-03	
520422.73	4258293.39	70985.39176	0.21847	0.37247	0.22113	0.40007	1.35E-03	5.13E-07	7.64E-07	5.19E-07	7.88E-07	1.3519E-03	
520438.67	4258874.77	70949.3572	0.35128	0.17157	0.33564	0.18117	1.35E-03	8.25E-07	3.52E-07	7.88E-07	3.57E-07	1.3509E-03	
520497.07	4258773.76	70942.08348	0.25654	0.17282	0.24614	0.18083	1.35E-03	6.02E-07	3.54E-07	5.78E-07	3.56E-07	1.3504E-03	
520481.76	4258806.89	70936.74089	0.27935	0.17047	0.26788	0.17905	1.35E-03	6.56E-07	3.50E-07	6.29E-07	3.52E-07	1.3504E-03	
520141.25	4258932.29	70854.49252	4.21801	0.4283	3.67377	0.40625	1.35E-03	9.90E-06	8.78E-07	8.62E-06	8.00E-07	1.3670E-03	
520049.05	4258814.29	70850.9085	5.44229	0.69011	8.0621	0.66066	1.35E-03	1.28E-05	1.42E-06	1.89E-05	1.30E-06	1.3812E-03	
520086.06	4258879.53	70828.60964	14.04818	0.5539	18.67299	0.51233	1.35E-03	3.30E-05	1.14E-06	4.38E-05	1.01E-06	1.4253E-03	
520334.66	4258283.11	70803.91405	0.26002	0.63198	0.26798	0.68622	1.35E-03	6.10E-07	1.30E-06	6.29E-07	1.35E-06	1.3497E-03	
520492.42	4258364.97	70802.12089	0.19666	0.25839	0.19682	0.27361	1.35E-03	4.62E-07	5.30E-07	4.62E-07	5.39E-07	1.3478E-03	
520177.47	4258953.13	70790.48061	2.43639	0.35333	2.19944	0.35121	1.35E-03	5.72E-06	7.25E-07	5.16E-06	6.91E-07	1.3579E-03	
520049.69	4258589.8	70769.13705	1.56866	7.16762	2.19599	9.91445	1.35E-03	3.68E-06	1.47E-05	5.16E-06	9.67E-06	1.3784E-03	
520442.27	4258303.45	70760.31357	0.21063	0.33652	0.21162	0.35964	1.35E-03	4.94E-07	6.90E-07	4.97E-07	7.08E-07	1.3474E-03	
520477.57	4258338.58	70748.22631	0.19945	0.28169	0.19943	0.29778	1.34E-03	4.68E-07	5.78E-07	4.68E-07	5.86E-07	1.3469E-03	
520207.19	4258963.08	70709.51854	1.72329	0.30319	1.58913	0.31201	1.34E-03	4.05E-06	6.22E-07	3.73E-06	6.14E-07	1.3531E-03	
520503.5	4258399.75	70657.41896	0.19644	0.24022	0.19533	0.25481	1.34E-03	4.61E-07	4.93E-07	4.59E-07	5.02E-07	1.3450E-03	
520036.32	4258777.68	70630.14412	3.55422	0.81389	4.72927	0.78179	1.34E-03	8.34E-06	1.67E-06	1.11E-05	1.54E-06	1.3652E-03	
520393.39	4258283.3	70602.1046	0.23075	0.43893	0.23586	0.47375	1.34E-03	5.42E-07	9.00E-07	5.54E-07	9.33E-07	1.3449E-03	
520187.64	4258342.66	70569.30035	0.1794	2.2621	0.40326	2.5799	1.34E-03	8.91E-07	4.64E-06	9.47E-07	5.08E-06	1.3530E-03	
520285.69	4258292.96	70543.19626	0.28944	0.8934	0.29744	0.98178	1.34E-03	6.80E-07	1.83E-06	6.98E-07	1.93E-06	1.3460E-03	
520412.27	4258905.71	70518.01334	0.40546	0.17557	0.38753	0.18515	1.34E-03	9.52E-07	3.60E-07	9.10E-07	3.64E-07	1.3430E-03	
520501.94	4258757.36	70504.66167	0.24671	0.17388	0.23661	0.18171	1.34E-03	5.79E-07	3.57E-07	5.55E-07	3.58E-07	1.3420E-03	
520487.07	4258352.66	70503.46663	0.19725	0.26705	0.1974	0.28242	1.34E-03	4.63E-07	5.48E-07	4.63E-07	5.56E-07	1.3422E-03	
520306.2	4258962.92	70462.66968	0.76752	0.20818	0.73083	0.22323	1.34E-03	1.80E-06	4.27E-07	1.72E-06	4.39E-07	1.3438E-03	
520236.68	4258312.81	70433.71435	0.32793	1.34388	0.34089	1.50222	1.34E-03	7.70E-07	2.76E-06	8.00E-07	2.96E-06	1.3461E-03	
520114.42	4258911.23	70403.41389	7.50828	0.48691	6.36939	0.45075	1.34E-03	1.76E-05	9.99E-07	1.50E-05	8.87E-07	1.3727E-03	
520375.46	4258932.8	70383.8913	0.49667	0.18251	0.47391	0.19344	1.34E-03	1.17E-06	3.74E-07	1.11E-06	3.81E-07	1.3409E-03	
520334.87	4258283.08	70237.42513	0.26459	0.67574	0.27253	0.73485	1.34E-03	6.21E-07	1.39E-06	6.40E-07	1.45E-06	1.3392E-03	
520256.29	4258302.87	70094.33392	0.31038	1.1305	0.32038	1.25498	1.33E-03	7.29E-07	2.32E-06	7.52E-07	2.47E-06	1.3386E-03	
520095.96	4258893.61	70073.95213	13.03243	0.52549	11.43155	0.48454	1.33E-03	3.06E-05	1.08E-06	2.68E-05	9.54E-07	1.3914E-03	
520507.37	4258749.16	70052.04587	0.24194	0.17438	0.23204	0.18216	1.33E-03	5.68E-07	3.58E-07	5.45E-07	3.59E-07	1.3334E-03	
520027.12	4258644.6	70021.54012	2.06541	1.84842	2.75386	1.65694	1.33E-03	4.85E-06	3.79E-06	6.47E-06	3.26E-06	1.3493E-03	
520450.89	4258307.14	69946.85261	0.20691	0.32256	0.20736	0.34387	1.33E-03	4.86E-07	6.62E-07	4.87E-07	6.77E-07	1.3319E-03	
520217.07	4258322.75	69933.87479	0.34547	1.62853	0.36284	1.83168	1.33E-03	8.11E-07	3.34E-06	8.52E-07	3.61E-06	1.3379E-03	
520429.63	4258888.52	69895.48641	0.36905	0.17171	0.35215	0.18127	1.33E-03	8.66E-07	3.52E-07	8.27E-07	3.57E-07	1.3310E-03	
520502.41	4258389.27	69787.01199	0.19536	0.24312	0.19467	0.25786	1.33E-03	4.59E-07	4.99E-07	4.57E-07	5.08E-07	1.3284E-03	
520024.46	4258700.84	69781.83533	2.22368	1.32825	2.89884	1.23058	1.33E-03	5.22E-06	2.72E-06	6.81E-06	2.42E-06	1.3436E-03	
520462.04	4258845.08	69781.02814	0.31075	0.16886	0.29773	0.17807	1.33E-03	7.30E-07	3.46E-07	6.99E-07	3.51E-07	1.3285E-03	
520197.29	4258963.1	69778.64747	1.92115	0.31642	1.76056	0.32196	1.33E-03	4.51E-06	6.49E-07	4.13E-06	6.34E-07	1.3363E-03	
520403.18	4258283.33	69753.56669	0.22561	0.41587	0.23015	0.4481	1.33E-03	5.30E-07	8.53E-07	5.40E-07	8.82E-07	1.3287E-03	
520395.24	4258922.77	69687.35492	0.44659	0.17786	0.42638	0.18781	1.32E-03	1.05E-06	3.65E-07	1.00E-06	3.70E-07	1.3274E-03	
520032.76	4258769.08	69651.60082	3.18997	0.84693	4.17786	0.8126	1.32E-03	7.49E-06	1.74E-06	9.81E-06	1.60E-06	1.3446E-03	
520315.08	4258283.05	69514.88171	0.26902	0.72379	0.27683	0.78864	1.32E-03	6.32E-07	1.48E-06	6.50E-07	1.55E-06	1.3257E-03	
520345.79	4258952.85	69445.29775	0.59758	0.18999	0.57021	0.20262	1.32E-03	1.40E-06	3.90E-07	1.34E-06	3.99E-07	1.3236E-03	
520471.18	4258831.29	69409.13885	0.2963	0.16847	0.28408	0.17741	1.32E-03	6.96E-07	3.46E-07	6.67E-07	3.49E-07	1.3214E-03	
520432.51	4258293.42	69404.99645	0.21328	0.35458	0.21534	0.3801	1.32E-03	5.01E-07	7.27E-07	5.06E-07	7.48E-07	1.3217E-03	
520256.71	4258973	69332.78075	1.10582	0.24226	1.04159	0.25753	1.32E-03	2.60E-06	4.97E-07	2.45E-06	5.07E-07	1.3239E-03	
520050.82	4258825.02	69280.05516	5.78377	0.65605	8.89386	0.62733	1.32E-03	1.36E-05	1.35E-06	2.09E-05	1.23E-06	1.3539E-03	
520246.81	4258973.02	69243.85845	1.19798	0.25165	1.12467	0.26628	1.32E-03	2.81E-06	5.16E-07	2.64E-06	5.24E-07	1.3227E-03	
520266.61	4258972.98	69197.40448	1.02317	0.23336	0.96655	0.24896	1.32E-03	2.40E-06	4.79E-07	2.27E-06	4.90E-07	1.3210E-03	
520167.57	4258953.15	69163.4176	2.78483	0.36708	2.49273	0.35971	1.31E-03	6.54E-06	7.53E-07	5.85E-06	7.08E-07	1.3285E-03	
520025.18	4258726.7	69148.81582	2.42133	1.09467	3.14766	1.03122	1.31E-03	5.68E-06	2.25E-06	7.39E-06	2.03E-06	1.3317E-03	
520275.9	4258292.93	69075.85183	0.29339	0.96577	0.30179	1.06454	1.31E-03	6.89E-07	1.98E-06	7.09E-07	2.10E-06	1.3185E-03	
520365.57	4258942.82	69073.5244	0.52817	0.18354	0.50391	0.19503	1.31E-03	1.24E-06	3.76E-07	1.18E-06	3.84E-07	1.3161E-03	
520236.91	4258973.03	68971.36231	1.30241	0.2616	1.21818	0.27526	1.31E-03	3.06E-06	5.37E-07	2.86E-06	5.42E-07	1.3180E-03	
520508.82	4258473.37	68948.15442	0.20342	0.22335	0.20055	0.23681	1.31E-03	4.78E-07	4.58E-07	4.71E-07	4.66E-07	1.3125E-03	
520276.51	4258972.97	68843.98807	0.94879	0.22495	0.89852	0.24064	1.31E-03	2.23E-06	4.61E-07	2.11E-06	4.74E-07	1.3139E-03	
520492.57	4258792.41	68842.1122	0.26449	0.1695	0.25365	0.17763	1.31E-03	6.21E-07	3.48E-07	5.95E-07	3.50E-07	1.3105E-03	
520412.97	4258283.36	68833.76723	0.2206	0.39434	0.22445	0.42436	1.31E-03	5.18E-07	8.09E-07	5.27E-07	8.35E-07	1.3111E-03	
520459.51	4258310.83	68812.64333	0.20319	0.30954	0.20324	0.32916	1.31E-03	4.77E-07	6.35E-07	4.77E-07	6.48E-07	1.3102E-03	
520158.47	4258949.39	68804.59835	3.18073	0.38363	2.82222	0.37136	1.31E-03	7.47E-06	7.87E-07	6.63E-06	7.31E-07	1.3235E-03	
520138.58	4258382.5	68796.33599	0.44579	4.77466	0.47287	5.64604	1.31E-03	1.05E-06	9.79E-06	1.11E-06	1.11E-05	1.3308E-03	
520420.79	4258902.18	68665.32267	0.3879	0.17212	0.3701	0.18157	1.31E-03	9.11E-07	3.53E-07	8.69E-07	3.57E-07	1.3077E-03	
520105.57	4258907.57	68632.40515	9.51588	0.49522	8.10751	0.45717	1.30E-03	2.23E-05	1.02E-06	1.90E-05	9.00E-07	1.3479E-03	
520227.01	4258973.05	68598.51732	1.42484	0.27246	1.32701	0.28469	1.30E-03	3.35E-06	5.59E-07	3.12E-06	5.60E-07	1.3115E-03	
520514.24	4258732.76	68596.51	0.23274	0.17493	0.22322	0.18282	1.30E-03	5.46E-07	3.59E-07	5.24E-07	3.60E-07	1.3057E-03	
520187.39	4258963.12	68592.34235	2.15336	0.32967	1.96013	0.33126	1.30E-03	5.06E-06	6.76E-07	4.60E-06	6.52E-07	1.3148E-03	
520305.29	4258283.02	68588.16073	0.27323	0.77682	0.28094	0.84826	1.30E-03	6.41E-07	1.59E-06	6.60E-07	1.67E-06	1.3083E-03	
520501.53	4258378.88	68547.89768	0.19412	0.2459	0.19382	0.26064	1.30E-03	4.56E-07	5.04E-07	4.55E-07	5.13E-07	1.3049E-03	
520480.61	4258817.37	68547.60049	0.28232	0.16795	0.27066	0.17653	1.30E-03	6.63E-07	3.44E-07	6.35E-07	3.47E-07	1.3050E-03	
520403.69	4258919.27	68477.00097	0.42627	0.1751	0.40714	0.1847	1.30E-03	1.00E-06	3.59E-07	9.56E-07	3.64E-07	1.3043E-03	
520286.41	4258972.95	68359.63046	0.8827	0.21722	0.83765	0.23277	1.30E-03	2.07E-06	4.46E-07	1.97E-06	4.58E-07	1.3043E-03	
520029.19	4258760.49	68348.30521	2.85681	0.88315	3.71783	0.84486	1.30E-03	6.71E-06	1.81E-06	8.78E-06	1.66E-06	1.3181E-03	
520447.37	4258871.17	68310.96164	0.33647	0.16835	0.3216	0.17769	1.30E-03	7.90E-07	3.45E-07	7.55E-07	3.50E-07	1.3007E-03	
520158.21	4258362.56	68301.13401	0.41072	3.40506	0.43711	3.95121	1.30E-03	9.64E-07	6.98E-06	1.03E-06	7.78E-06	1.3150E-03	
520385.36	4258932.79	68233.39609	0.47144	0.17805	0.44959	0.18842	1.30E-03	1.11E-06	3.65E-07	1.06E-06	3.71E-07	1.2999E-03	
520486.41	4258342.37	68186.18428	0.19557	0.27014	0.19562	0.28536	1.30E-03	4.59E-07	5.54E-07	4.59E-07	5.62E-07	1.2981E-03	
520128.76	4258392.47	68174.93712	0.46336	5.83713	0.49082	6.99866	1.30E-03	1.09E-06	1.20E-05	1.15E-06	1.38E-05	1.3239E-03	
520149.36	4258945.63	68149.17364	3.66653	0.39958	3.22456	0.38226	1.30E-03	8.61E-06	8.20E-07	7.57E-06	7.52E-07	1.3131E-03	
520087.01	4258889.92	68087.5125	15.52568	0.52874	17.48178	0.48935	1.29E-03	3.64E-05	1.08E-06	4.10E-05	9.63E-07	1.3738E-03	
520027.12	4258655.32	68057.89442	1.96193	2.00876	2.62136	1.78219	1.29E-03	4.61E-06	4.12E-06	6.15E-06	3.51E-06	1.3120E-03	
520217.11	4258973.07	68041.16092	1.56651	0.2839	1.45198	0.29416	1.29E-03	3.68E-06	5.82E-07	3.41E-06	5.79E-07	1.3016E-03	
520521.36	4258091.81	68034.16547	0.22023	0.18014	0.21176	0.18876	1.29E-03	5.17E-07	3.69E-07	4.97E-07	3.72E-07	1.2950E-03	
520246.5	4258302.84	68032.23737	0.31363	1.23436	0.32519	1.37487	1.29E-03	7.36E-07	2.53E-06	7.63E-07	2.71E-06	1.2999E-03	
520364.06	4258273.21	67916.75887	0.24102	0.5267	0.248	0.56976	1.29E-03	5.66E-07	1.08E-06	5.82E-07	1.12E-06	1.2943E-03	
520226.89	4258312.78	67895.59349	0.33042	1.48053	0.34568	1.66022	1.29E-03	7.76E-07	3.04E-06	8.12E-07	3.27E-06	1.2985E-03	
520373.85	4258273.24	67852.18843	0.23642	0.49599	0.24297	0.53609	1.29E-03	5.55E-07	1.02E-06	5.70E-07	1.06E-06	1.2929E-03	
520354.27	4258273.18	67796.3755	0.24551	0.56027	0.25282	0.60661	1.29E-03	5.76E-07	1.15E-06	5.94E-07	1.19E-06	1.2922E-03	
520296.32	4258972.93	67741.52632	0.82349	0.21012	0.78272	0.22534	1.29E-03	1.93E-06	4.31E-07	1.84E-06	4.44E-07	1.2923E-03	
520438.23	4258884.96	67696.70348	0.35344	0.16853	0.3373	0.17788	1.29E-03	8.30E-07	3.46E-07	7.92E-07	3.50E-07	1.2891E-03	
520355.69	4258952.84	67686.12223	0.56291	0.18471	0.53695	0.1967	1.29E-03	1.32E-06	3.79E-07	1.26E-06	3.87E-07	1.2899E-03	
520422.76	4258283.39	67590.65824	0.21554	0.37479	0.2188	0.40259	1.28E-03	5.06E-07	7.69E-07	5.14E-07	7.92E-07	1.2874E-03	
520052.37	4258835.65	67556.71051	6.08535	0.62441	9.76329	0.59647	1.28E-03	1.43E-05	1.28E-06	2.29E-05	1.17E-06	1.3238E-03	
520442.3	4258293.45	67538.0819	0.20812	0.33822	0.20968	0.36172	1.28E-03	4.89E-07	6.94E-07	4.92E-07	7.12E-07	1.2862E-03	
520383.63	4258273.27	67512.85794	0.23168	0.46812	0.23778	0.50533	1.28E-03	5.44E-07	9.60E-07	5.58E-07	9.95E-07	1.2864E-03	
520168.03	4258352.6	67504.78011	0.39391	2.94239	0.41934	3.3937	1.28E-03	9.25E-07	6.03E-06	9.84E-07	6.68E-06	1.2978E-03	
520295.51	4258282.99	67500.63187	0.27724	0.83535	0.28497	0.91454	1.28E-03	6.51E-07	1.71E-06	6.69E-07	1.80E-06	1.2879E-03	
520344.48	4258273.15	67473.69235	0.24987	0.59706	0.25738	0.64699	1.28E-03	5.87E-07	1.22E-06	6.04E-07	1.27E-06	1.2862E-03	
520140.25	4258941.88	67470.77132	4.31533	0.41514	3.75202	0.39269	1.28E-03	1.01E-05	8.51E-07	8.81E-06	7.73E-07	1.3031E-03	
520266.11	4258292.9	67425.01761	0.297	1.04705	0.30624	1.15779	1.28E-03	6.97E-07	2.15E-06	7.19E-07	2.28E-06	1.2875E-03	
520335.9	4258962.87	67419.34687	0.63678	0.19101	0.60725	0.2041	1.28E-03	1.49E-06	3.92E-07	1.43E-06	4.02E-07	1.2852E-03	
520468.13	4258314.52	67358.55545	0.19948	0.29735	0.19928	0.31539	1.28E-03	4.68E-07	6.10E-07	4.68E-07	6.21E-07	1.2825E-03	
520114.95	4258921.44	67273.58845	7.40312	0.46664	6.2837	0.4322	1.28E-03	1.74E-05	9.57E-07	1.48E-05	8.51E-07	1.3127E-03	
520207.21	4258973.08	67266.71059	1.73008	0.29576	1.59516	0.30346	1.28E-03	4.06E-06	6.07E-07	3.74E-06	5.97E-07	1.2876E-03	
520177.49	4258963.13	67225.33608	2.4331	0.34287	2.19856	0.33992	1.28E-03	5.71E-06	7.03E-07	5.16E-06	6.69E-07	1.2901E-03	
520490.42	4258803.31	67186.07901	0.26861	0.16726	0.25749	0.17545	1.28E-03	6.31E-07	3.43E-07	6.05E-07	3.45E-07	1.2790E-03	
520039.81	4258598.93	67166.03637	1.71612	4.18897	2.44419	3.28564	1.28E-03	4.03E-06	8.59E-06	5.74E-06	6.47E-06	1.3015E-03	
520496.04	4258356.5	67078.66314	0.19318	0.256	0.19332	0.27071	1.28E-03	4.54E-07	5.25E-07	4.54E-07	5.33E-07	1.2770E-03	
520500.8	4258368.55	67065.01065	0.19276	0.24873	0.19275	0.26332	1.27E-03	4.53E-07	5.10E-07	4.53E-07	5.18E-07	1.2767E-03	
520412.14	4258915.77	67037.98023	0.40737	0.17215	0.38889	0.1815	1.27E-03	9.56E-07	3.53E-07	9.13E-07	3.57E-07	1.2769E-03	
520334.69	4258273.11	67025.98398	0.25414	0.6372	0.26168	0.6914	1.27E-03	5.97E-07	1.31E-06	6.14E-07	1.36E-06	1.2779E-03	
520393.42	4258273.3	67020.78113	0.22692	0.44246	0.23249	0.47707	1.27E-03	5.33E-07	9.07E-07	5.46E-07	9.39E-07	1.2769E-03	
520096.72	4258903.92	67014.99478	12.62655	0.50175	11.00146	0.46318	1.27E-03	2.96E-05	1.03E-06	2.58E-05	9.12E-07	1.3312E-03	
520461.44	4258853.34	66913.50231	0.31304	0.16616	0.29969	0.17523	1.27E-03	7.35E-07	3.41E-07	7.04E-07	3.45E-07	1.2740E-03	
520375.47	4258942.8	66900.505	0.49876	0.17856	0.47557	0.18942	1.27E-03	1.17E-06	3.66E-07	1.12E-06	3.73E-07	1.2747E-03	
520450.83	4258297.1	66846.34587	0.20458	0.32427	0.20553	0.34601	1.27E-03	4.80E-07	6.65E-07	4.83E-07	6.81E-07	1.2729E-03	
520207.28	4258322.72	66804.2752	0.34649	1.81472	0.36645	2.04556	1.27E-03	8.13E-07	3.72E-06	8.60E-07	4.03E-06	1.2793E-03	
520470.4	4258841.62	66742.30132	0.29879	0.16581	0.28629	0.17468	1.27E-03	7.01E-07	3.40E-07	6.72E-07	3.44E-07	1.2707E-03	
520118.94	4258402.44	66727.24285	0.48045	7.38365	0.5096	8.91	1.27E-03	1.13E-06	1.51E-05	1.20E-06	1.75E-05	1.3034E-03	
520025.63	4258751.9	66682.22047	2.54787	0.92172	3.31277	0.87782	1.27E-03	5.98E-06	1.89E-06	7.78E-06	1.73E-06	1.2849E-03	
520512.12	4258461.42	66679.69661	0.19995	0.22268	0.19738	0.2358	1.27E-03	4.69E-07	4.57E-07	4.63E-07	4.64E-07	1.2693E-03	
520429.31	4258898.66	66569.60073	0.37101	0.16872	0.35375	0.17799	1.27E-03	8.71E-07	3.46E-07	8.30E-07	3.50E-07	1.2678E-03	
520177.85	4258342.63	66473.54191	0.37748	2.57704	0.40185	2.95076	1.26E-03	8.86E-07	5.29E-06	9.43E-07	5.81E-06	1.2765E-03	
520021.57	4258717.99	66458.6131	2.17388	1.14433	2.78436	1.07234	1.26E-03	5.10E-06	2.35E-06	6.54E-06	2.11E-06	1.2794E-03	
520324.9	4258273.08	66406.98762	0.25827	0.6812	0.26573	0.74031	1.26E-03	6.06E-07	1.40E-06	6.24E-07	1.46E-06	1.2664E-03	
520521.1	4258716.36	66367.67141	0.22406	0.17495	0.215	0.1831	1.26E-03	5.26E-07	3.59E-07	5.05E-07	3.60E-07	1.2633E-03	
520197.31	4258973.1	66357.38838	1.92534	0.30817	1.76463	0.31263	1.26E-03	4.52E-06	6.32E-07	4.14E-06	6.15E-07	1.2712E-03	
520403.21	4258273.33	66357.09375	0.22214	0.41886	0.22713	0.45109	1.26E-03	5.22E-07	8.59E-07	5.33E-07	8.88E-07	1.2641E-03	
520512.06	4258481.89	66312.22942	0.20233	0.21944	0.19912	0.23262	1.26E-03	4.75E-07	4.50E-07	4.67E-07	4.58E-07	1.2623E-03	
520285.72	4258282.96	66293.51468	0.28109	0.90021	0.28904	0.98869	1.26E-03	6.60E-07	1.85E-06	6.79E-07	1.95E-06	1.2653E-03	
520099.26	4258432.38	66246.05501	0.5517	13.86168	0.59523	15.91144	1.26E-03	1.30E-06	2.84E-05	1.40E-06	3.13E-05	1.3217E-03	
520395.26	4258932.77	66213.65843	0.44808	0.17413	0.42758	0.18393	1.26E-03	1.05E-06	3.57E-07	1.00E-06	3.62E-07	1.2614E-03	
520345.8	4258962.85	66176.33859	0.59981	0.18607	0.57234	0.19851	1.26E-03	1.41E-06	3.82E-07	1.34E-06	3.91E-07	1.2614E-03	
520432.55	4258283.42	66176.27132	0.21055	0.35665	0.21323	0.38241	1.26E-03	4.94E-07	7.31E-07	5.01E-07	7.53E-07	1.2604E-03	
520479.62	4258827.79	66156.733	0.28502	0.16541	0.27318	0.17397	1.26E-03	6.69E-07	3.39E-07	6.41E-07	3.42E-07	1.2595E-03	
520365.59	4258952.82	66098.07055	0.53202	0.17999	0.50738	0.19137	1.26E-03	1.25E-06	3.69E-07	1.19E-06	3.77E-07	1.2596E-03	
520036.17	4258801.44	66032.06856	3.62419	0.70783	4.79642	0.68289	1.26E-03	8.51E-06	1.45E-06	1.13E-05	1.34E-06	1.2777E-03	
520459.36	4258300.75	65906.74014	0.20103	0.3112	0.20145	0.33128	1.25E-03	4.72E-07	6.38E-07	4.73E-07	6.52E-07	1.2550E-03	
520106.18	4258917.82	65783.13274	9.40007	0.47465	7.97682	0.43842	1.25E-03	2.21E-05	9.73E-07	1.87E-05	8.63E-07	1.2931E-03	
520236.71	4258302.81	65765.37016	0.31622	1.35357

520109.12	4258412.41	64059.94829	0.49613	9.76209	0.52838	11.79485	1.22E-03	1.16E-06	2.00E-05	1.24E-06	2.32E-05	1.2633E-03
520517.67	4258748.5	64053.48207	0.23203	0.16926	0.22241	0.17664	1.22E-03	5.45E-07	3.47E-07	5.22E-07	3.48E-07	1.2193E-03
520177.5	4258973.13	64027.29189	2.43929	0.33327	2.20485	0.32946	1.22E-03	5.73E-06	6.84E-07	5.18E-06	6.49E-07	1.2293E-03
520375.49	4258952.8	63973.74825	0.5023	0.17512	0.47869	0.1859	1.22E-03	1.18E-06	3.59E-07	1.12E-06	3.66E-07	1.2191E-03
520112.94	4258930.6	63958.55402	7.79797	0.45014	6.6155	0.4167	1.22E-03	1.83E-05	9.23E-07	1.55E-05	8.20E-07	1.2513E-03
520043.52	4258832	63955.53049	4.55647	0.617	6.40691	0.59431	1.22E-03	1.07E-05	1.27E-06	1.50E-05	1.17E-06	1.2439E-03
520344.51	4258263.15	63925.68401	0.24436	0.60198	0.25154	0.65164	1.22E-03	5.74E-07	1.23E-06	5.91E-07	1.28E-06	1.2188E-03
520451.31	4258287.29	63917.58639	0.20205	0.3251	0.2035	0.34711	1.21E-03	4.74E-07	6.67E-07	4.78E-07	6.83E-07	1.2173E-03
520054.96	4258856.71	63870.77833	6.71133	0.56739	11.76173	0.54129	1.21E-03	1.58E-05	1.16E-06	2.76E-05	1.07E-06	1.2597E-03
520029.93	4258628.06	63823.44766	1.73978	2.66306	2.36914	2.26801	1.21E-03	4.08E-06	5.46E-06	5.46E-06	4.46E-06	1.2327E-03
520412.02	4258925.83	63819.55135	0.40907	0.16881	0.39028	0.17796	1.21E-03	9.60E-07	3.46E-07	9.16E-07	3.50E-07	1.2157E-03
520478.76	4258838.16	63785.0792	0.28749	0.16288	0.27547	0.17139	1.21E-03	6.75E-07	3.34E-07	6.47E-07	3.37E-07	1.2144E-03
520393.45	4258263.3	63724.40755	0.22308	0.44596	0.22897	0.48033	1.21E-03	5.24E-07	9.15E-07	5.38E-07	9.46E-07	1.2142E-03
520246.53	4258292.84	63691.28425	0.30299	1.24295	0.31515	1.38379	1.21E-03	7.11E-07	2.55E-06	7.40E-07	2.72E-06	1.2174E-03
520515.3	4258469.76	63651.13446	0.19883	0.21834	0.19596	0.23127	1.21E-03	4.67E-07	4.48E-07	4.60E-07	4.55E-07	1.2117E-03
520499.09	4258799.72	63607.67095	0.25842	0.1642	0.24769	0.172	1.21E-03	6.07E-07	3.37E-07	5.81E-07	3.39E-07	1.2109E-03
520059.52	4258530.96	63578.99187	1.09112	13.28282	1.32468	7.65591	1.21E-03	2.56E-06	2.72E-05	3.11E-06	1.51E-05	1.2565E-03
520429.03	4258908.78	63574.03288	0.37301	0.16582	0.35546	0.17482	1.21E-03	8.76E-07	3.40E-07	8.35E-07	3.44E-07	1.2108E-03
520295.54	4258272.99	63526.15713	0.26951	0.84164	0.27718	0.92064	1.21E-03	6.33E-07	1.73E-06	6.51E-07	1.81E-06	1.2123E-03
520197.49	4258322.69	63512.19159	0.34622	2.03507	0.36802	2.29825	1.21E-03	8.13E-07	4.17E-06	8.64E-07	4.52E-06	1.2176E-03
520334.72	4258263.11	63450.61533	0.24826	0.6423	0.25539	0.69631	1.21E-03	5.83E-07	1.32E-06	6.00E-07	1.37E-06	1.2100E-03
520505.02	4258360.35	63447.12707	0.18913	0.24596	0.18919	0.26001	1.21E-03	4.44E-07	5.04E-07	4.44E-07	5.12E-07	1.2079E-03
520024.85	4258774.14	63442.27128	2.62765	0.79695	3.32931	0.76613	1.21E-03	6.17E-06	1.63E-06	7.82E-06	1.51E-06	1.2231E-03
520266.14	4258282.9	63358.07748	0.28785	1.05401	0.29739	1.16551	1.20E-03	6.76E-07	2.16E-06	6.98E-07	2.29E-06	1.2102E-03
520226.92	4258302.78	63341.99738	0.31805	1.49118	0.33389	1.67045	1.20E-03	7.47E-07	3.06E-06	7.84E-07	3.29E-06	1.2119E-03
520017.96	4258709.28	63312.58018	1.9439	1.1946	2.46491	1.11272	1.20E-03	4.56E-06	2.45E-06	5.79E-06	2.19E-06	1.2184E-03
520432.58	4258273.42	63187.52179	0.20782	0.35875	0.21106	0.38468	1.20E-03	4.88E-07	7.36E-07	4.96E-07	7.57E-07	1.2036E-03
520403.24	4258263.33	63154.1056	0.2186	0.42203	0.22398	0.45408	1.20E-03	5.13E-07	8.66E-07	5.26E-07	8.94E-07	1.2032E-03
520494.57	4258335.85	63151.45531	0.19004	0.26218	0.19011	0.27642	1.20E-03	4.46E-07	5.38E-07	4.46E-07	5.44E-07	1.2024E-03
520476.42	4258308.05	63116.51471	0.19389	0.28764	0.19372	0.30462	1.20E-03	4.55E-07	5.90E-07	4.55E-07	6.00E-07	1.2018E-03
520316.13	4258982.9	63070.3292	0.72521	0.19342	0.69023	0.20733	1.20E-03	1.70E-06	3.97E-07	1.62E-06	4.08E-07	1.2030E-03
520460.29	4258291.14	63051.47066	0.18845	0.31125	0.19928	0.33156	1.20E-03	4.66E-07	6.38E-07	4.68E-07	6.53E-07	1.2007E-03
520488.07	4258824.29	63012.95449	0.27435	0.16232	0.26282	0.17052	1.20E-03	6.44E-07	3.33E-07	6.17E-07	3.36E-07	1.1997E-03
520395.27	4258942.77	63003.73247	0.44945	0.17048	0.42875	0.18017	1.20E-03	1.06E-06	3.50E-07	1.01E-06	3.55E-07	1.2004E-03
520464.77	4258863.96	62963.87777	0.30949	0.16211	0.29601	0.1709	1.20E-03	7.27E-07	3.32E-07	6.95E-07	3.36E-07	1.1988E-03
520345.82	4258972.85	62946.85057	0.60106	0.18204	0.57343	0.1943	1.20E-03	1.41E-06	3.73E-07	1.35E-06	3.82E-07	1.2000E-03
520256.75	4258993	62932.58317	1.11493	0.23211	1.04949	0.24583	1.20E-03	2.62E-06	4.76E-07	2.46E-06	4.84E-07	1.2023E-03
520455.44	4258877.83	62920.80106	0.32489	0.16242	0.31023	0.1713	1.20E-03	7.63E-07	3.33E-07	7.28E-07	3.37E-07	1.1982E-03
520365.6	4258962.82	62919.96573	0.53351	0.17627	0.50876	0.18751	1.20E-03	1.25E-06	3.62E-07	1.19E-06	3.69E-07	1.1992E-03
520027.12	4258636.77	62917.32357	1.72569	2.36234	2.3111	2.04783	1.20E-03	4.05E-06	4.84E-06	5.43E-06	4.03E-06	1.2143E-03
520517.32	4258423.32	62915.68398	0.19194	0.22428	0.19001	0.23713	1.20E-03	4.51E-07	4.60E-07	4.46E-07	4.67E-07	1.1977E-03
520148.43	4258362.53	62902.85888	0.40364	0.61685	0.42677	0.69858	1.20E-03	9.48E-07	1.00E-06	8.24E-06	9.25E-06	1.2151E-03
520088.64	4258910.58	62896.04374	14.95675	0.48363	15.80866	0.44822	1.20E-03	3.51E-05	9.92E-07	3.71E-05	8.82E-07	1.2696E-03
520246.84	4258993.02	62885.32253	1.20911	0.24104	1.13444	0.25399	1.20E-03	2.84E-06	4.94E-07	2.66E-06	5.00E-07	1.2018E-03
520058.92	4258868.33	62864.21256	7.93548	0.5435	16.4273	0.51675	1.19E-03	1.86E-05	1.11E-06	3.86E-05	1.02E-06	1.2543E-03
520266.65	4258992.98	62843.35441	1.03173	0.22373	0.97392	0.23794	1.19E-03	2.42E-06	4.59E-07	2.29E-06	4.68E-07	1.2002E-03
520018.5	4258734.71	62830.74122	2.09531	1.00158	2.65822	0.94602	1.19E-03	4.92E-06	2.05E-06	6.24E-06	1.86E-06	1.2094E-03
520324.93	4258263.08	62767.88528	0.25196	0.68658	0.25905	0.74544	1.19E-03	5.92E-07	1.41E-06	6.08E-07	1.47E-06	1.1972E-03
520236.94	4258993.03	62717.48341	1.31651	0.25056	1.23068	0.26238	1.19E-03	3.09E-06	5.14E-07	2.89E-06	5.16E-07	1.1992E-03
520158.25	4258352.56	62715.68744	0.38856	3.42407	0.41173	3.97105	1.19E-03	9.12E-07	7.02E-06	9.67E-07	7.82E-06	1.2088E-03
520138.61	4258372.5	62676.54897	0.41876	4.80034	0.44195	5.66578	1.19E-03	9.83E-07	9.85E-06	1.04E-06	1.12E-05	1.2144E-03
520167.6	4258973.15	62638.40908	2.78477	0.34527	2.49709	0.33673	1.19E-03	6.54E-06	7.08E-07	5.86E-06	6.63E-07	1.2044E-03
520039.77	4258589.23	62606.54953	1.52089	4.44824	2.12594	3.4428	1.19E-03	3.57E-06	9.12E-06	4.99E-06	6.78E-06	1.2145E-03
520276.55	4258992.97	62583.282	0.95738	0.21584	0.90589	0.2303	1.19E-03	2.25E-06	4.43E-07	2.13E-06	4.53E-07	1.1949E-03
520524.46	4258732.28	62581.08206	0.22351	0.16962	0.21423	0.17716	1.19E-03	5.25E-07	3.48E-07	5.03E-07	3.49E-07	1.1913E-03
520103.83	4258926.84	62540.81202	10.07805	0.45699	8.5717	0.42235	1.19E-03	2.37E-05	9.37E-07	2.01E-05	8.31E-07	1.2343E-03
520045	4258842.6	62494.3978	4.80901	0.58794	6.87773	0.56603	1.19E-03	1.13E-05	1.21E-06	1.61E-05	1.11E-06	1.2177E-03
520413.03	4258263.36	62429.75984	0.21411	0.39996	0.21893	0.42989	1.19E-03	5.03E-07	8.20E-07	5.14E-07	8.46E-07	1.1894E-03
520446.36	4258891.6	62416.16613	0.34069	0.16266	0.32492	0.17154	1.19E-03	8.00E-07	3.34E-07	7.63E-07	3.38E-07	1.1887E-03
520227.04	4258993.05	62408.99238	1.43969	0.26063	1.3404	0.27089	1.19E-03	3.38E-06	5.35E-07	3.15E-06	5.33E-07	1.1939E-03
520207.31	4258312.72	62380.48029	0.33261	1.82541	0.35207	2.05987	1.19E-03	7.81E-07	3.74E-06	8.27E-07	4.05E-06	1.1951E-03
520158.67	4258969.46	62344.29272	3.16653	0.3594	2.81678	0.34661	1.19E-03	7.43E-06	7.37E-07	6.61E-06	6.82E-07	1.2005E-03
520420.4	4258922.36	62342.41717	0.39149	0.1659	0.37312	0.17484	1.19E-03	9.19E-07	3.40E-07	8.76E-07	3.44E-07	1.1875E-03
520285.75	4258272.96	62338.53696	0.27294	0.90678	0.28106	0.99506	1.18E-03	6.41E-07	1.86E-06	6.60E-07	1.96E-06	1.1901E-03
520326.03	4258982.89	62281.97224	0.68119	0.18812	0.64894	0.20145	1.18E-03	1.60E-06	3.86E-07	1.52E-06	3.97E-07	1.1878E-03
520168.07	4258342.6	62219.68018	0.37377	2.96195	0.39673	3.40981	1.18E-03	8.77E-07	6.07E-06	9.31E-07	6.71E-06	1.1973E-03
520286.45	4258992.95	62162.86827	0.89062	0.20845	0.84432	0.22295	1.18E-03	2.09E-06	4.28E-07	1.98E-06	4.39E-07	1.1865E-03
520385.39	4258952.79	62133.95622	0.47581	0.17081	0.45333	0.18102	1.18E-03	1.12E-06	3.50E-07	1.06E-06	3.56E-07	1.1839E-03
520504.08	4258349.93	62078.29481	0.18785	0.24884	0.18795	0.26271	1.18E-03	4.41E-07	5.10E-07	4.41E-07	5.17E-07	1.1819E-03
520021.08	4258765.04	62059.98996	2.36812	0.83094	2.97885	0.79612	1.18E-03	5.56E-06	1.70E-06	6.99E-06	1.57E-06	1.1955E-03
520315.14	4258263.05	61985.07822	0.25556	0.73499	0.26263	0.79973	1.18E-03	6.00E-07	1.51E-06	6.17E-07	1.57E-06	1.1825E-03
520149.75	4258965.78	61950.42781	3.65174	0.37327	3.21761	0.35607	1.18E-03	8.57E-06	7.66E-07	7.55E-06	7.01E-07	1.1952E-03
520403.99	4258939.16	61939.50887	0.42848	0.16791	0.40873	0.17719	1.18E-03	1.01E-06	3.44E-07	9.60E-07	3.49E-07	1.1800E-03
520217.14	4258993.07	61915.78896	1.58163	0.27116	1.46578	0.27935	1.18E-03	3.71E-06	5.56E-07	3.44E-06	5.50E-07	1.1852E-03
520128.79	4258382.47	61893.12564	0.43384	5.86707	0.45725	7.02077	1.18E-03	1.02E-06	1.20E-05	1.07E-06	1.38E-05	1.2044E-03
520469.27	4258294.98	61872.67636	0.19482	0.29844	0.19516	0.31708	1.18E-03	4.57E-07	6.12E-07	4.58E-07	6.24E-07	1.1782E-03
520497.71	4258810.3	61848.10751	0.26144	0.16184	0.25051	0.16965	1.18E-03	6.14E-07	3.32E-07	5.88E-07	3.34E-07	1.1775E-03
520442.37	4258273.45	61791.98181	0.20314	0.34146	0.20578	0.36559	1.17E-03	4.77E-07	7.00E-07	4.83E-07	7.20E-07	1.1769E-03
520531.4	4258691.76	61710.06088	0.21201	0.17463	0.20376	0.18278	1.17E-03	4.98E-07	3.58E-07	4.78E-07	3.60E-07	1.1747E-03
520437.48	4258905.28	61687.96499	0.35732	0.16289	0.34052	0.17171	1.17E-03	8.39E-07	3.34E-07	7.99E-07	3.38E-07	1.1749E-03
520256.35	4258282.87	61637.69433	0.29062	1.1461	0.30158	1.27154	1.17E-03	6.82E-07	2.35E-06	7.08E-07	2.50E-06	1.1779E-03
520296.35	4258992.93	61590.31538	0.83039	0.20155	0.78837	0.21591	1.17E-03	1.95E-06	4.13E-07	1.85E-06	4.25E-07	1.1754E-03
520236.74	4258292.81	61514.31578	0.30499	1.36299	0.31921	1.52132	1.17E-03	7.16E-07	2.80E-06	7.49E-07	2.99E-06	1.1765E-03
520140.82	4258962.09	61507.27769	4.28663	0.38662	3.73443	0.36504	1.17E-03	1.01E-05	7.93E-07	8.77E-06	7.19E-07	1.1895E-03
520422.82	4258263.39	61498.14818	0.20958	0.37967	0.21386	0.40757	1.17E-03	4.92E-07	7.79E-07	5.02E-07	8.02E-07	1.1715E-03
520355.72	4258972.84	61491.88925	0.56649	0.17715	0.54028	0.18883	1.17E-03	1.33E-06	3.63E-07	1.27E-06	3.72E-07	1.1722E-03
520478	4258848.48	61457.09731	0.28978	0.16037	0.27754	0.1688	1.17E-03	6.80E-07	3.29E-07	6.52E-07	3.32E-07	1.1702E-03
520484.95	4258311.7	61453.09128	0.19043	0.2766	0.19008	0.29236	1.17E-03	4.47E-07	5.67E-07	4.46E-07	5.76E-07	1.1701E-03
520113.51	4258940.83	61305.11653	7.72282	0.43262	6.54205	0.40061	1.17E-03	1.81E-05	8.87E-07	1.54E-05	7.89E-07	1.2005E-03
520451.24	4258277.25	61288.09589	0.19978	0.32662	0.20175	0.34902	1.16E-03	4.69E-07	6.70E-07	4.74E-07	6.87E-07	1.1673E-03
520207.24	4258993.08	61252.26998	1.74697	0.28208	1.61067	0.28766	1.16E-03	4.10E-06	5.79E-07	3.78E-06	5.66E-07	1.1733E-03
520094.73	4258923.08	61228.16265	13.53111	0.46187	11.91497	0.42737	1.16E-03	3.18E-05	9.47E-07	2.80E-05	8.41E-07	1.2254E-03
520335.94	4258982.87	61161.39489	0.63996	0.18295	0.60996	0.19566	1.16E-03	1.50E-06	3.75E-07	1.43E-06	3.85E-07	1.1663E-03
520373.91	4258253.24	61117.06306	0.22737	0.50451	0.23409	0.54361	1.16E-03	5.34E-07	1.03E-06	5.50E-07	1.07E-06	1.1649E-03
520375.51	4258962.8	61109.80503	0.50419	0.1716	0.48043	0.18228	1.16E-03	1.18E-06	3.52E-07	1.13E-06	3.59E-07	1.1646E-03
520364.12	4258253.21	61103.08537	0.23132	0.53573	0.23818	0.5778	1.16E-03	5.43E-07	1.10E-06	5.59E-07	1.14E-06	1.1648E-03
520017.12	4258683.15	61048.83775	1.73178	1.44644	2.20619	1.32151	1.16E-03	4.07E-06	2.97E-06	5.18E-06	2.60E-06	1.1752E-03
520305.36	4258263.02	61028.76903	0.25894	0.78832	0.26619	0.85974	1.16E-03	6.08E-07	1.62E-06	6.25E-07	1.69E-06	1.1646E-03
520275.96	4258272.93	60999.14107	0.27609	0.97962	0.28501	1.07849	1.16E-03	6.48E-07	2.01E-06	6.69E-07	2.12E-06	1.1649E-03
520383.7	4258253.27	60995.20939	0.22335	0.47577	0.22978	0.51227	1.16E-03	5.24E-07	9.76E-07	5.39E-07	1.01E-06	1.1625E-03
520060.17	4258878.84	60954.5146	8.40351	0.51965	15.98008	0.4938	1.16E-03	1.97E-05	1.07E-06	3.75E-05	9.72E-07	1.2179E-03
520046.31	4258853.13	60931.93116	5.04025	0.56088	7.35846	0.53984	1.16E-03	1.18E-05	1.15E-06	1.73E-05	1.06E-06	1.1895E-03
520354.33	4258253.18	60930.94621	0.23516	0.56971	0.24206	0.61516	1.16E-03	5.52E-07	1.17E-06	5.68E-07	1.21E-06	1.1617E-03
520487.12	4258834.69	60908.88332	0.27681	0.15998	0.26518	0.16815	1.16E-03	6.50E-07	3.28E-07	6.23E-07	3.31E-07	1.1597E-03
520306.25	4258992.92	60881.19705	0.77588	0.19513	0.7374	0.20919	1.16E-03	1.82E-06	4.00E-07	1.73E-06	4.12E-07	1.1616E-03
520029.16	4258808.65	60878.26095	3.03102	0.66469	3.88562	0.64347	1.16E-03	7.12E-06	1.36E-06	9.12E-06	1.27E-06	1.1761E-03
520217.13	4258302.75	60843.9057	0.31912	1.65061	0.33688	1.85493	1.16E-03	7.49E-07	3.39E-06	7.91E-07	3.65E-06	1.1651E-03
520428.78	4258918.89	60748.95181	0.37484	0.16292	0.35704	0.17167	1.15E-03	8.80E-07	3.34E-07	8.38E-07	3.38E-07	1.1571E-03
520520.79	4258432.44	60712.0833	0.19113	0.21997	0.189	0.23243	1.15E-03	4.48E-07	4.51E-07	4.44E-07	4.58E-07	1.1558E-03
520412.71	4258935.55	60706.98703	0.4089	0.16527	0.38994	0.17421	1.15E-03	9.60E-07	3.39E-07	9.15E-07	3.43E-07	1.1565E-03
520393.48	4258253.3	60678.50541	0.21923	0.44944	0.22531	0.48351	1.15E-03	5.15E-07	9.22E-07	5.29E-07	9.52E-07	1.1563E-03
520344.54	4258253.15	60573.0528	0.23885	0.60682	0.24572	0.65605	1.15E-03	5.61E-07	1.24E-06	5.77E-07	1.29E-06	1.1551E-03
520460.11	4258281.05	60518.04289	0.19635	0.31289	0.19769	0.33361	1.15E-03	4.61E-07	6.42E-07	4.64E-07	6.57E-07	1.1526E-03
520503.29	4258339.58	60485.83599	0.18641	0.25185	0.18649	0.26546	1.15E-03	4.38E-07	5.17E-07	4.38E-07	5.23E-07	1.1516E-03
520464.05	4258874.27	60485.74454	0.31183	0.1595	0.29791	0.16813	1.15E-03	7.32E-07	3.27E-07	6.99E-07	3.31E-07	1.1518E-03
520531.26	4258716.06	60451.79148	0.21544	0.16958	0.20664	0.17736	1.15E-03	5.06E-07	3.48E-07	4.85E-07	3.49E-07	1.1508E-03
520014.94	4258726.12	60428.39726	1.89631	1.04302	2.37919	0.98022	1.15E-03	4.45E-06	2.14E-06	5.59E-06	1.93E-06	1.1627E-03
520478.24	4258298.82	60416.64116	0.19118	0.28648	0.19117	0.30354	1.15E-03	4.49E-07	5.88E-07	4.49E-07	5.98E-07	1.1505E-03
520197.34	4258993.1	60401.13693	1.94135	0.2932	1.77954	0.29563	1.15E-03	4.56E-06	6.01E-07	4.18E-06	5.82E-07	1.1580E-03
520118.97	4258392.44	60398.83816	0.44817	7.4066	0.47298	8.95933	1.15E-03	1.05E-06	1.52E-05	1.11E-06	1.76E-05	1.1831E-03
520432.61	4258263.42	60383.15569	0.20506	0.36096	0.2088	0.38694	1.15E-03	4.81E-07	7.40E-07	4.90E-07	7.62E-07	1.1502E-03
520034.67	4258828.34	60372.2201	3.55253	0.6103	4.66205	0.59124	1.15E-03	8.34E-06	1.25E-06	1.09E-05	1.16E-06	1.1693E-03
520187.71	4258322.66	60336.87622	0.34504	2.29579	0.36695	2.60542	1.15E-03	8.10E-07	4.71E-06	8.61E-07	5.13E-06	1.1584E-03
520473.46	4258860.36	60330.64539	0.29718	0.15915	0.28436	0.16763	1.15E-03	6.98E-07	3.26E-07	6.68E-07	3.30E-07	1.1488E-03
520029.89	4258618.37	60326.79516	1.58299	2.87004	2.1453	2.41176	1.15E-03	3.72E-06	5.89E-06	5.04E-06	4.79E-06	1.1661E-03
520454.88	4258888.07	60310.89067	0.32694	0.15978	0.31192	0.16844	1.15E-03	7.68E-07	3.28E-07	7.32E-07	3.32E-07	1.1486E-03
520316.15	4258992.9	60256.17561	0.72732	0.18944	0.69196	0.20306	1.15E-03	1.71E-06	3.89E-07	1.62E-06	4.00E-07	1.1495E-03
520025.45	4258799.68	60235.81354	2.74633	0.68951	3.47487	0.66685	1.14E-03	6.45E-06	1.41E-06	8.16E-06	1.31E-06	1.1623E-03
520511.37	4258787.48	60224.54275	0.24389	0.162	0.23379	0.16932	1.14E-03	5.73E-07	3.32E-07	5.49E-07	3.33E-07	1.1465E-03
520017.31	4258755.94	60223.79578	2.10953	0.86781	2.66719	0.82666	1.14E-03	4.95E-06	1.78E-06	6.26E-06	1.63E-06	1.1594E-03
520403.27	4258253.33	60215.93819	0.21506	0.42514	0.22069	0.457	1.14E-03	5.05E-07	8.72E-07	5.18E-07	9.00E-07	1.1474E-03
520515	4258778.83	60122.96496	0.23907	0.1627	0.22919	0.1699	1.14E-03	5.61E-07	3.34E-07	5.38E-07	3.34E-07	1.1446E-03
520334.75	4258253.12	60074.56342	0.24242	0.64727	0.24921	0.70094	1.14E-03	5.69E-07	1.33E-06	5.85E-07	1.38E-06	1.1458E-03
520519.65	4258396.65	60054.19496	0.18607	0.22595	0.18567	0.23905	1.14E-03	4.39E-07	4.63E-07	4.36E-07	4.71E-07	1.1433E-03
520049.87	4258864.6	60052.19627	5.67077	0.53752	8.83531	0.51591	1.14E-03	1.33E-05	1.10E-06	2.07E-05	1.02E-06	1.1777E-03
520256.76	4259003	60044.81827	1.11763	0.22724	1.05195	0.24022	1.14E-03	2.62E-06	4.66E-07	2.47E-06	4.73E-07	1.1474E-03
520104.49	4258937.11	60020.77732	0.91854	0.43878	8.4191	0.40577	1.14E-03	2.33E-05	9.00E-07	1.98E-05	7.99E-07	1.1856E-03
520496.52	4258820.8	60012.47659	0.26418	0.15951	0.25311	0.16733	1.14E-03	6.20E-07	3.27E-07	5.94E-07	3.29E-07	1.1426E-03
520395.29	4258952.77	60004.38903	0.45071	0.16684	0.42972	0.17646	1.14E-03	1.06E-06	3.42E-07	1.01E-06	3.47E-07	1.1433E-03
520266.66	4259002.98	59973.97724	1.0341	0.21914	0.9761	0.23266	1.14E-03	2.43E-06	4.49E-07	2.29E-06	4.58E-07	1.1456E-03
520246.86	4259003.02	59968.58496	1.2118	0.23585	1.13689	0.24801	1.14E-03	2.84E-06	4.84E-07	2.67E-06	4.88E-07	1.1464E-03
520295.57	4258262.99	59957.10428	0.26216	0.84725	0.26981	0.92655	1.14E-03	6.15E-07	1.74E-06	6.33E-07	1.82E-06	1.1445E-03
520345.84	4258982.85	59921.64882	0.60228	0.17796	0.57395	0.19007	1.14E-03	1.41E-06	3.65E-07	1.35E-06	3.74E-07	1.1425E-03
520365.62	4258972.82	59911.84877	0.53468	0.17245	0.5096	0.18356	1.14E-03	1.26E-06	3.54E-07	1.20E-06	3.61E-07	1.1420E-03
520518.62	4258770.18	59907.19542	0.23437	0.1633	0.22467	0.1704	1.14E-03	5.50E-07	3.35E-07	5.27E-07	3.35E-07	1.1405E-03
520099.3	4258422.38	59821.70777	0.50937	13.90391	0.54689	15.93435	1.14E-03	1.20E-06	2.85E-05	1.28E-06	3.14E-05	1.1995E-03
520518.51	4258386.15	59813.7668	0.18607	0.22853	0.18517	0.24182	1.14E-03	4.37E-07	4.69E-07	4.35E-07	4.76E-07	1.1388E-03
520017.12	4258673.87	59807.47258	1.66012	1.55246	2.11824	1.40835	1.14E-03	3.90E-06	3.18E-06	4.97E-06

520315.18	4258253.05	58622.96968	0.24907	0.74003	0.25595	0.80474	1.11E-03	5.85E-07	1.52E-06	6.01E-07	1.58E-06	1.1186E-03
520355.74	4258982.84	58565.30284	0.56766	0.1732	0.54075	0.18473	1.11E-03	1.33E-06	3.55E-07	1.27E-06	3.64E-07	1.1165E-03
520049.6	4258550.4	58504.54961	1.18236	7.54373	1.50489	5.2306	1.11E-03	2.78E-06	1.55E-05	3.53E-06	1.03E-05	1.1441E-03
520529.48	4258744.23	58454.55511	0.22091	0.16427	0.21159	0.17135	1.11E-03	5.19E-07	3.37E-07	4.97E-07	3.37E-07	1.1128E-03
520051.23	4258875.15	58422.17105	5.97633	0.51423	9.63062	0.49323	1.11E-03	1.40E-05	1.05E-06	2.26E-05	9.71E-07	1.1492E-03
520524.27	4258441.57	58353.97248	0.19025	0.21565	0.18792	0.22779	1.11E-03	4.47E-07	4.42E-07	4.41E-07	4.48E-07	1.1110E-03
520013.53	4258746.84	58340.73755	1.91565	0.90432	2.39682	0.85773	1.11E-03	4.50E-06	1.85E-06	5.63E-06	1.69E-06	1.1226E-03
520018.01	4258781.76	58318.50919	2.26729	0.74366	2.81123	0.71613	1.11E-03	5.32E-06	1.53E-06	6.60E-06	1.41E-06	1.1234E-03
520335.95	4258992.87	58285.84273	0.64102	0.17901	0.61061	0.19153	1.11E-03	1.50E-06	3.67E-07	1.43E-06	3.77E-07	1.1116E-03
520477.85	4258288.64	58255.52816	0.1894	0.28812	0.18973	0.30565	1.11E-03	4.45E-07	5.91E-07	4.45E-07	6.02E-07	1.1094E-03
520207.26	4259003.08	58234.73666	1.74543	0.2749	1.60936	0.27965	1.11E-03	4.10E-06	5.64E-07	3.78E-06	5.50E-07	1.1159E-03
520375.52	4258972.8	58227.78853	0.50531	0.16798	0.48132	0.17855	1.11E-03	1.19E-06	3.45E-07	1.13E-06	3.51E-07	1.1098E-03
520207.35	4258302.72	58223.24539	0.31916	1.837	0.33817	2.07121	1.11E-03	7.49E-07	3.77E-06	7.94E-07	4.08E-06	1.1161E-03
520017.12	4258664.6	58187.86172	1.58231	1.66595	2.02276	1.49974	1.11E-03	3.71E-06	3.42E-06	4.75E-06	2.95E-06	1.1209E-03
520306.27	4259002.92	58186.01607	0.77778	0.19119	0.73885	0.20487	1.11E-03	1.83E-06	3.92E-07	1.73E-06	4.03E-07	1.1104E-03
520524.45	4258416.19	58167.17724	0.18701	0.21901	0.18509	0.2314	1.11E-03	4.39E-07	4.49E-07	4.35E-07	4.56E-07	1.1074E-03
520373.94	4258243.24	58146.60235	0.22291	0.5085	0.22949	0.54719	1.11E-03	5.23E-07	1.04E-06	5.39E-07	1.08E-06	1.1084E-03
520459.95	4258270.97	58127.85537	0.19423	0.31454	0.1961	0.33559	1.10E-03	4.56E-07	6.45E-07	4.60E-07	6.61E-07	1.1071E-03
520463.4	4258884.54	58119.53856	0.31393	0.15692	0.29963	0.16536	1.10E-03	7.37E-07	3.22E-07	7.03E-07	3.26E-07	1.1068E-03
520472.65	4258870.71	58077.79841	0.29954	0.15664	0.2863	0.16501	1.10E-03	7.03E-07	3.21E-07	6.72E-07	3.25E-07	1.1060E-03
520383.73	4258243.27	58053.81823	0.21916	0.47958	0.22559	0.51561	1.10E-03	5.15E-07	9.84E-07	5.30E-07	1.01E-06	1.1065E-03
520364.15	4258243.21	58044.0473	0.22651	0.54002	0.23316	0.58158	1.10E-03	5.32E-07	1.11E-06	5.47E-07	1.14E-06	1.1066E-03
520109.15	4258402.41	58017.62765	0.46145	9.8017	0.48933	11.79989	1.10E-03	1.08E-06	2.01E-05	1.15E-06	2.32E-05	1.1484E-03
520037.65	4258849.56	57968.82987	3.92074	0.55472	5.23294	0.5376	1.10E-03	9.20E-06	1.14E-06	1.23E-05	1.06E-06	1.1256E-03
520412.57	4258945.61	57952.45915	0.41032	0.16208	0.39138	0.17087	1.10E-03	9.63E-07	3.32E-07	9.19E-07	3.36E-07	1.1041E-03
520039.73	4258579.53	57942.50988	1.35497	4.68102	1.84768	3.58376	1.10E-03	3.18E-06	9.60E-06	4.34E-06	7.05E-06	1.1256E-03
520158.28	4258342.56	57844.71869	0.36811	3.44421	0.3884	3.98681	1.10E-03	8.64E-07	7.06E-06	9.12E-07	7.85E-06	1.1162E-03
520354.36	4258243.18	57834.69559	0.23004	0.57416	0.23665	0.61915	1.10E-03	5.40E-07	1.18E-06	5.56E-07	1.22E-06	1.1028E-03
520256.38	4258272.87	57834.48873	0.28115	1.15405	0.29281	1.2786	1.10E-03	6.60E-07	2.37E-06	6.87E-07	2.52E-06	1.1056E-03
520148.46	4258352.53	57830.77037	0.3813	4.03717	0.40117	4.71787	1.10E-03	8.95E-07	8.28E-06	9.42E-07	9.29E-06	1.1187E-03
520393.52	4258243.3	57821.53805	0.21535	0.4529	0.22152	0.48659	1.10E-03	5.06E-07	9.29E-07	5.20E-07	9.58E-07	1.1020E-03
520454.38	4258888.28	57782.7481	0.32883	0.15722	0.31353	0.16566	1.10E-03	7.72E-07	3.22E-07	7.36E-07	3.26E-07	1.1005E-03
520432.64	4258253.42	57775.27534	0.20227	0.36318	0.20643	0.38916	1.10E-03	4.75E-07	7.45E-07	4.85E-07	7.66E-07	1.1007E-03
520430.14	4258928.33	57761.76049	0.37346	0.15951	0.35557	0.16799	1.10E-03	8.77E-07	3.27E-07	8.35E-07	3.31E-07	1.1003E-03
520482.16	4258856.76	57752.49356	0.28556	0.15627	0.27335	0.16444	1.10E-03	6.70E-07	3.20E-07	6.42E-07	3.24E-07	1.0997E-03
520538.05	4258699.84	57737.18318	0.20786	0.1694	0.19959	0.17721	1.10E-03	4.88E-07	3.47E-07	4.69E-07	3.49E-07	1.0991E-03
520105.1	4258947.35	57715.93437	9.84747	0.42215	8.31439	0.3905	1.10E-03	2.31E-05	8.66E-07	1.95E-05	7.69E-07	1.1413E-03
520011.37	4258717.52	57705.59409	1.71294	1.08346	2.1246	1.01345	1.10E-03	4.02E-06	2.22E-06	4.99E-06	1.99E-06	1.1101E-03
520305.39	4258253.02	57683.13089	0.25213	0.7935	0.25934	0.86502	1.10E-03	5.92E-07	1.63E-06	6.09E-07	1.70E-06	1.1010E-03
520533.11	4258735.58	57668.50777	0.21663	0.16451	0.20754	0.17168	1.10E-03	5.09E-07	3.37E-07	4.87E-07	3.38E-07	1.0978E-03
520236.77	4258282.81	57637.57982	0.29425	1.37211	0.30898	1.52974	1.10E-03	6.91E-07	2.81E-06	7.25E-07	3.01E-06	1.1028E-03
520086.47	4258929.67	57523.21176	15.66034	0.4448	17.7428	0.41371	1.09E-03	3.68E-05	9.12E-07	4.17E-05	8.14E-07	1.1736E-03
520275.99	4258262.93	57490.54318	0.26797	0.98565	0.27727	1.0849	1.09E-03	6.29E-07	2.02E-06	6.51E-07	2.14E-06	1.0982E-03
520344.57	4258243.15	57482.89694	0.23347	0.6113	0.23998	0.66027	1.09E-03	5.48E-07	1.25E-06	5.63E-07	1.30E-06	1.0963E-03
520197.36	4259003.1	57467.10817	1.93841	0.28549	1.77764	0.28716	1.09E-03	4.55E-06	5.86E-07	4.17E-06	5.65E-07	1.1022E-03
520138.64	4258362.5	57445.63148	0.39439	4.82252	0.41414	5.68892	1.09E-03	9.26E-07	9.89E-06	9.72E-07	1.12E-05	1.1149E-03
520316.17	4259002.9	57443.95927	0.72834	0.1854	0.69238	0.19874	1.09E-03	1.71E-06	3.80E-07	1.63E-06	3.91E-07	1.0960E-03
520403.3	4258243.33	57437.01179	0.21146	0.42834	0.21728	0.45989	1.09E-03	4.96E-07	8.78E-07	5.10E-07	9.05E-07	1.0946E-03
520502	4258319	57288.18359	0.18347	0.25643	0.18321	0.27004	1.09E-03	4.31E-07	5.26E-07	4.30E-07	5.32E-07	1.0909E-03
520256.78	4259013	57287.34267	1.11932	0.22251	1.05347	0.23479	1.09E-03	2.63E-06	4.56E-07	2.47E-06	4.62E-07	1.0949E-03
520246.88	4259013.02	57251.41552	1.2139	0.23087	1.1389	0.24227	1.09E-03	2.85E-06	4.73E-07	2.67E-06	4.77E-07	1.0947E-03
520468.73	4258274.72	57240.25749	0.19091	0.30174	0.19222	0.3212	1.09E-03	4.48E-07	6.19E-07	4.51E-07	6.32E-07	1.0902E-03
520395.31	4258962.77	57218.03947	0.45184	0.16331	0.43062	0.17286	1.09E-03	1.06E-06	3.35E-07	1.01E-06	3.40E-07	1.0904E-03
520040.82	4258860.86	57215.39045	4.30631	0.53134	5.92596	0.51411	1.09E-03	1.01E-05	1.09E-06	1.39E-05	1.01E-06	1.1137E-03
520266.68	4259012.98	57185.51256	1.03549	0.21458	0.97714	0.22746	1.09E-03	2.43E-06	4.40E-07	2.29E-06	4.48E-07	1.0927E-03
520062.34	4258899.72	57151.61917	9.15261	0.47684	16.05601	0.45271	1.09E-03	2.15E-05	9.78E-07	3.77E-05	8.91E-07	1.1474E-03
520345.85	4258992.85	57144.16506	0.60323	0.1742	0.57471	0.18614	1.09E-03	1.42E-06	3.57E-07	1.35E-06	3.66E-07	1.0897E-03
520504.97	4258817.3	57138.00906	0.25453	0.15681	0.24391	0.16427	1.09E-03	5.98E-07	3.22E-07	5.73E-07	3.23E-07	1.0879E-03
520445.55	4258911.95	57125.97621	0.34427	0.15732	0.32794	0.16571	1.09E-03	8.08E-07	3.23E-07	7.70E-07	3.26E-07	1.0881E-03
520365.64	4258982.82	57116.00614	0.53571	0.16875	0.51027	0.17972	1.09E-03	1.26E-06	3.46E-07	1.20E-06	3.54E-07	1.0888E-03
520014.29	4258772.79	57027.0168	2.06299	0.77295	2.5388	0.74194	1.08E-03	4.84E-06	1.59E-06	5.96E-06	1.46E-06	1.0978E-03
520236.98	4259013.03	57024.14394	1.32098	0.23962	1.23473	0.24981	1.08E-03	3.10E-06	4.91E-07	2.90E-06	4.92E-07	1.0909E-03
520334.78	4258243.12	56978.27025	0.23675	0.65181	0.24321	0.70536	1.08E-03	5.56E-07	1.34E-06	5.71E-07	1.39E-06	1.0869E-03
520496.2	4258306.51	56969.14968	0.18411	0.26413	0.18367	0.27868	1.08E-03	4.32E-07	5.42E-07	4.31E-07	5.49E-07	1.0848E-03
520276.58	4259012.97	56958.11556	0.96075	0.20708	0.90851	0.22033	1.08E-03	2.26E-06	4.25E-07	2.13E-06	4.34E-07	1.0879E-03
520486.72	4258292.44	56928.73071	0.18603	0.27648	0.18589	0.29273	1.08E-03	4.37E-07	5.67E-07	4.36E-07	5.76E-07	1.0841E-03
520217.17	4258292.75	56900.82495	0.30684	1.66126	0.32453	1.86482	1.08E-03	7.20E-07	3.41E-06	7.62E-07	3.67E-06	1.0901E-03
520413.09	4258243.36	56880.08465	0.20749	0.40571	0.21292	0.43524	1.08E-03	4.87E-07	8.32E-07	5.00E-07	8.57E-07	1.0839E-03
520052.46	4258885.65	56759.42128	6.26509	0.4925	10.47565	0.4721	1.08E-03	1.47E-05	1.01E-06	2.46E-05	9.29E-07	1.1201E-03
520227.08	4259013.05	56752.64962	1.44424	0.24898	1.34468	0.25752	1.08E-03	3.39E-06	5.11E-07	3.16E-06	5.07E-07	1.0863E-03
520177.92	4258322.63	56740.21173	0.34179	2.61419	0.36282	2.97154	1.08E-03	8.02E-07	5.36E-06	8.52E-07	5.85E-06	1.0914E-03
520536.73	4258726.93	56722.75178	0.21249	0.1645	0.20361	0.17181	1.08E-03	4.99E-07	3.37E-07	4.78E-07	3.38E-07	1.0798E-03
520421.21	4258942.04	56721.43005	0.39198	0.15964	0.374	0.16811	1.08E-03	9.20E-07	3.27E-07	8.78E-07	3.31E-07	1.0806E-03
520029.85	4258608.67	56667.42939	1.43258	3.05372	1.9179	2.54288	1.08E-03	3.36E-06	6.26E-06	4.50E-06	5.01E-06	1.0963E-03
520295.6	4258252.99	56659.44609	0.25506	0.85251	0.26283	0.9321	1.08E-03	5.99E-07	1.75E-06	6.17E-07	1.83E-06	1.0818E-03
520442.43	4258253.45	56635.37232	0.19799	0.34559	0.20163	0.36984	1.08E-03	4.65E-07	7.09E-07	4.73E-07	7.28E-07	1.0789E-03
520286.48	4259012.95	56603.10453	0.89375	0.20006	0.84663	0.21348	1.08E-03	2.10E-06	4.10E-07	1.99E-06	4.20E-07	1.0808E-03
520525.39	4258470.4	56579.49844	0.19269	0.21012	0.18965	0.2223	1.08E-03	4.52E-07	4.31E-07	4.45E-07	4.38E-07	1.0772E-03
520187.46	4259003.12	56578.65129	2.1685	0.2961	1.9769	0.29424	1.08E-03	5.09E-06	6.07E-07	4.64E-06	5.79E-07	1.0864E-03
520326.07	4259002.89	56574.51594	0.68321	0.18014	0.64997	0.19301	1.08E-03	1.60E-06	3.69E-07	1.53E-06	3.80E-07	1.0793E-03
520128.82	4258372.47	56555.99102	0.40709	5.90104	0.42745	7.00157	1.08E-03	9.56E-07	1.21E-05	1.00E-06	1.38E-05	1.1029E-03
520096.17	4258943.67	56508.48178	12.94703	0.42555	11.28113	0.39433	1.07E-03	3.04E-05	8.73E-07	2.65E-05	7.76E-07	1.1327E-03
520385.42	4258972.79	56463.61346	0.47809	0.16383	0.45538	0.17385	1.07E-03	1.12E-06	3.36E-07	1.07E-06	3.42E-07	1.0761E-03
520451.12	4258257.17	56355.49635	0.19509	0.33033	0.19811	0.3531	1.07E-03	4.58E-07	6.77E-07	4.65E-07	6.95E-07	1.0735E-03
520403.88	4258959.22	56334.2741	0.43119	0.16104	0.41093	0.17015	1.07E-03	1.01E-06	3.30E-07	9.65E-07	3.35E-07	1.0735E-03
520325	4258243.08	56327.48117	0.23987	0.69606	0.24638	0.7549	1.07E-03	5.63E-07	1.43E-06	5.78E-07	1.49E-06	1.0747E-03
520022.15	4258815.84	56318.6066	2.58888	0.62587	3.23065	0.60742	1.07E-03	6.08E-06	1.28E-06	7.58E-06	1.20E-06	1.0867E-03
520494.57	4258841.62	56295.14169	0.26894	0.15493	0.25767	0.16271	1.07E-03	6.31E-07	3.18E-07	6.05E-07	3.20E-07	1.0719E-03
520114.51	4258961.23	56289.13152	7.53376	0.40029	6.39801	0.37107	1.07E-03	1.77E-05	8.21E-07	1.50E-05	7.30E-07	1.1042E-03
520527.85	4258425.11	56268.26537	0.18626	0.21487	0.18411	0.22688	1.07E-03	4.37E-07	4.41E-07	4.32E-07	4.47E-07	1.0713E-03
520217.18	4259013.07	56244.0665	1.58544	0.25856	1.46932	0.26502	1.07E-03	3.72E-06	5.30E-07	3.45E-06	5.22E-07	1.0773E-03
520017.12	4258655.32	56220.07633	1.49953	1.78457	1.91759	1.59487	1.07E-03	3.52E-06	3.66E-06	4.50E-06	3.14E-06	1.0835E-03
520187.74	4258312.66	56218.8975	0.32981	2.30899	0.35	2.61994	1.07E-03	7.74E-07	4.74E-06	8.22E-07	5.16E-06	1.0801E-03
520541.44	4258691.73	56204.97161	0.20425	0.16927	0.1962	0.17699	1.07E-03	4.80E-07	3.47E-07	4.61E-07	3.48E-07	1.0700E-03
520009.76	4258737.74	56175.10011	1.73775	0.94156	2.1517	0.88881	1.07E-03	4.08E-06	1.93E-06	5.05E-06	1.75E-06	1.0806E-03
520422.88	4258243.39	56172.08589	0.20348	0.38482	0.20847	0.41246	1.07E-03	4.78E-07	7.89E-07	4.89E-07	8.12E-07	1.0703E-03
520477.51	4258278.48	56169.30548	0.18759	0.2897	0.18836	0.30766	1.07E-03	4.40E-07	5.94E-07	4.42E-07	6.06E-07	1.0698E-03
520140.2	4258981.82	56165.98561	0.34414	0.36245	3.79007	0.34134	1.07E-03	1.02E-05	7.43E-07	8.90E-06	6.72E-07	1.0881E-03
520296.38	4259012.93	56125.70219	0.83337	0.19342	0.79036	0.20686	1.07E-03	1.96E-06	3.97E-07	1.86E-06	4.07E-07	1.0715E-03
520246.59	4258272.84	56061.10856	0.28294	1.25953	0.29629	1.39954	1.07E-03	6.64E-07	2.58E-06	6.96E-07	2.75E-06	1.0723E-03
520266.2	4258262.9	56042.30271	0.27034	1.06788	0.28096	1.17907	1.07E-03	6.35E-07	2.19E-06	6.60E-07	2.32E-06	1.0711E-03
520438.86	4258924.73	56006.34258	0.35714	0.1567	0.34002	0.16499	1.06E-03	8.38E-07	3.21E-07	7.98E-07	3.25E-07	1.0669E-03
520027.5	4258835.38	55982.13246	2.99278	0.57601	3.78373	0.56023	1.06E-03	7.03E-06	1.18E-06	8.88E-06	1.10E-06	1.0823E-03
520471.93	4258881.01	55924.82844	0.30168	0.15418	0.28811	0.16239	1.06E-03	7.08E-07	3.16E-07	6.76E-07	3.20E-07	1.0651E-03
520010.73	4258691.86	55892.38768	1.54426	1.2899	1.92483	1.18653	1.06E-03	3.63E-06	2.65E-06	4.52E-06	2.34E-06	1.0755E-03
520522.98	4258368.03	55888.84787	0.18117	0.22714	0.18075	0.24003	1.06E-03	4.25E-07	4.66E-07	4.24E-07	4.72E-07	1.0641E-03
520355.75	4258992.84	55884.57771	0.56853	0.1696	0.54154	0.18097	1.06E-03	1.33E-06	3.48E-07	1.27E-06	3.56E-07	1.0656E-03
520459.82	4258260.89	55857.72888	0.19207	0.31623	0.19446	0.33753	1.06E-03	4.51E-07	6.49E-07	4.57E-07	6.64E-07	1.0640E-03
520042.28	4258871.46	55845.68983	4.50945	0.50857	6.33086	0.49178	1.06E-03	1.06E-05	1.04E-06	1.49E-05	9.68E-07	1.0890E-03
520462.83	4258894.79	55775.2243	0.31583	0.15447	0.30126	0.16271	1.06E-03	7.41E-07	3.17E-07	7.07E-07	3.20E-07	1.0623E-03
520518.38	4258794.68	55761.86858	0.23802	0.15701	0.22817	0.16401	1.06E-03	5.59E-07	3.22E-07	5.36E-07	3.23E-07	1.0617E-03
520481.26	4258867.14	55716.15816	0.28792	0.15387	0.27535	0.16195	1.06E-03	6.76E-07	3.16E-07	6.46E-07	3.19E-07	1.0610E-03
520521.96	4258786.15	55683.61827	0.23349	0.15761	0.22381	0.16451	1.06E-03	5.48E-07	3.23E-07	5.25E-07	3.24E-07	1.0602E-03
520207.27	4259013.08	55651.95105	1.75042	0.26854	1.61422	0.27242	1.06E-03	4.11E-06	5.51E-07	3.79E-06	5.36E-07	1.0688E-03
520018.48	4258807	55645.58616	2.35913	0.64839	2.92373	0.62813	1.06E-03	5.54E-06	1.33E-06	6.86E-06	1.24E-06	1.0727E-03
520526.99	4258389.78	55638.43616	0.18219	0.22021	0.18091	0.23285	1.06E-03	4.28E-07	4.52E-07	4.25E-07	4.58E-07	1.0593E-03
520540.35	4258718.28	55618.53092	0.20849	0.16438	0.19984	0.17181	1.06E-03	4.89E-07	3.37E-07	4.69E-07	3.38E-07	1.0588E-03
520335.97	4259002.87	55598.81809	0.64192	0.17515	0.61089	0.1875	1.06E-03	1.51E-06	3.59E-07	1.43E-06	3.69E-07	1.0605E-03
520177.55	4259003.13	55588.47438	2.44821	0.30651	2.21714	0.30078	1.06E-03	5.75E-06	6.29E-07	5.21E-06	5.92E-07	1.0688E-03
520375.54	4258982.8	55565.28695	0.50624	0.16449	0.48213	0.17492	1.06E-03	1.19E-06	3.37E-07	1.13E-06	3.44E-07	1.0592E-03
520315.21	4258243.05	55525.25621	0.2428	0.74472	0.24959	0.80954	1.06E-03	5.70E-07	1.53E-06	5.86E-07	1.59E-06	1.0597E-03
520226.98	4258282.78	55518.47751	0.29511	1.51092	0.31148	1.68898	1.06E-03	6.93E-07	3.10E-06	7.31E-07	3.32E-06	1.0632E-03
520525.53	4258777.61	55515.6609	0.22904	0.15822	0.21954	0.16501	1.06E-03	5.38E-07	3.24E-07	5.15E-07	3.25E-07	1.0570E-03
520503.84	4258227.77	55510.17626	0.25702	0.15461	0.24633	0.16206	1.06E-03	6.03E-07	3.17E-07	5.78E-07	3.19E-07	1.0570E-03
520285.81	4258252.96	55497.129	0.25772	0.91819	0.26636	1.0069	1.05E-03	6.05E-07	1.88E-06	6.25E-07	1.98E-06	1.0600E-03
520306.28	4259012.92	55495.69075	0.77868	0.18721	0.73908	0.20051	1.05E-03	1.83E-06	3.84E-07	1.74E-06	3.95E-07	1.0592E-03
520010.58	4258763.83	55469.08837	1.87321	0.80399	2.29964	0.76835	1.05E-03	4.40E-06	1.65E-06	5.40E-06	1.51E-06	1.0673E-03
520525.94	4258379.31	55462.46055	0.1813	0.22262	0.18041	0.23539	1.05E-03	4.26E-07	4.57E-07	4.24E-07	4.63E-07	1.0560E-03
520197.56	4258302.69	55432.80448	0.31796	2.05783	0.33726	2.32715	1.05E-03	7.46E-07	4.22E-06	7.92E-07	4.58E-06	1.0640E-03
520087.24	4258939.98	55367.98779	15.32321	0.42726	17.03636	0.39759	1.05E-03	3.60E-05	8.76E-07	4.00E-05	7.83E-07	1.1301E-03
520412.45	4258955.67	55344.17464	0.41174	0.15883	0.39257	0.16753	1.05E-03	9.67E-07	3.26E-07	9.22E-07	3.30E-07	1.0545E-03
520521.76	4258357.5	55324.42432	0.18021	0.23006	0.18009	0.24282	1.05E-03	4.23E-07	4.72E-07	4.23E-07	4.78E-07	1.0534E-03
520105.65	4258957.57	55319.85693	9.63781	0.40572	8.17073	0.37565	1.05E-03	2.26E-05	8.32E-07	1.92E-05	7.39E-07	1.0949E-03
520373.97	4258243.24	55318.88772	0.21842	0.51246	0.22482	0.5506	1.05E-03	5.13E-07	1.05E-06	5.28E-07	1.08E-06	1.0547E-03
520495.6	4258296.23	55272.70413	0.1826	0.26582	0.18222	0.28077	1.05E-03	4.29E-07	5.45E-07	4.28E-07	5.53E-07	1.0526E-03
520432.67	4258243.42	55269.35837	0.19939	0.36562	0.20396	0.39142	1.05E-03	4.68E-07	7.50E-07	4.79E-07	7.71E-07	1.0530E-03
520383.76	4258243.27	55265.3729	0.21493	0.48337	0.2213	0.51882	1.05E-03	5.05E-07	9.91E-07	5.20E-07	1.02E-06	1.0535E-03
520490.86	4258853.16	55255.76993	0.27458	0.15351	0.26297	0.16135	1.05E-03	6.45E-07	3.15E-07	6.17E-07	3.18E-07	1.0522E-03
520429.85	4258938.46	55255.44435	0.37515	0.15663	0.35708	0.16493	1.05E-03	8.81E-07	3.21E-07	8.38E-07	3.25E-07	1.0527E-03
520453.93	4258908.48	55247.95448	0.33032	0.15458	0.31475	0.16278	1.05E-03	7.75E-07	3.17E-07	7.39E-07	3.20E-07	1.0523E-03
520529.1	4258769.08	55240.90524	0.22471	0.15862	0.21529	0.16535	1.05E-03	5.28E-07	3.25E-07	5.05E-07	3.25E-07	1.0517E-03
520364.18	4258233.21	55211.0645	0.22178	0.54404	0.22814	0.5852	1.05E-03	5.21E-07	1.12E-06	5.36E-07	1.15E-06	1.0528E-03
520059.48	4258521.27	55174.71735	0.9535	13.20721	1.12797	7.76162	1.05E-03	2.24E-06	2.71E-05	2.65E-06	1.53E-05	1.0960E-03
520119	4258382.44	55120.09386	0.41956	7.43683	0.44093	8.97942	1.05E-03	9.85E-07	1.53E-05	1.04E-06	1.77E-05	1.0827E-03
520393.55	4258233.3	55114.21399	0.21142	0.45643	0.21761	0.4896	1.05E-03	4.96E-07	9.36E-07	5.11E-07	9.64E-07	1.0505E-03
520468.51	4258264.61	55109.86718	0.18895	0.30334	0.19076	0.32313	1.05E-03	4.44E-07	6.22E-07	4.48E-07	6.36E-07	1.0497E-03
520053.57	4258896.1	55084.76948	6.56251	0.47211	11.38423	0.45235	1.05E-03	1.54E-05	9.68E-07	2.67E-05	8.90E-07	1.0911E-03
520486.29	4258282.24	55030.58841	0.18437	0.27804	0.18457	0.29473	1.05E-03	4.33E-07	5.70E-07	4.33E-

520187.47	4259013.12	54119.0162	2.17614	0.28876	1.98433	0.28616	1.03E-03	5.11E-06	5.92E-07	4.66E-06	5.63E-07	1.0396E-03
520334.82	4258233.12	54078.7613	0.23118	0.65604	0.23742	0.70947	1.03E-03	5.43E-07	1.35E-06	5.57E-07	1.40E-06	1.0318E-03
520451.08	4258247.14	54075.3595	0.19268	0.33234	0.19616	0.35514	1.03E-03	4.52E-07	6.82E-07	4.61E-07	6.99E-07	1.0302E-03
520149.52	4258995.67	54073.6123	3.68338	0.33976	3.25293	0.32266	1.03E-03	8.65E-06	6.97E-07	7.64E-06	6.35E-07	1.0455E-03
520286.5	4259022.95	54042.35966	0.89464	0.196	0.84688	0.2089	1.03E-03	2.10E-06	4.02E-07	1.99E-06	4.11E-07	1.0321E-03
520326.08	4259012.89	54010.12892	0.68405	0.17624	0.64992	0.18888	1.03E-03	1.61E-06	3.61E-07	1.53E-06	3.72E-07	1.0305E-03
520531.6	4258409.1	53984.24051	0.18228	0.21374	0.18035	0.22572	1.03E-03	4.28E-07	4.38E-07	4.23E-07	4.44E-07	1.0279E-03
520017.12	4258646.05	53967.56951	1.41155	1.90682	1.80477	1.69131	1.03E-03	3.31E-06	3.91E-06	4.24E-06	3.33E-06	1.0406E-03
520385.44	4258982.79	53916.18569	0.479	0.16041	0.45612	0.17033	1.02E-03	1.12E-06	3.29E-07	1.07E-06	3.35E-07	1.0277E-03
520471.28	4258891.29	53848.75812	0.30366	0.15188	0.28986	0.15991	1.02E-03	7.13E-07	3.11E-07	6.80E-07	3.15E-07	1.0256E-03
520011.14	4258789.3	53805.49525	1.98003	0.69627	2.41165	0.67137	1.02E-03	4.65E-06	1.43E-06	5.66E-06	1.32E-06	1.0358E-03
520403.83	4258969.25	53790.40734	0.43242	0.15764	0.41177	0.16672	1.02E-03	1.02E-06	3.23E-07	9.67E-07	3.28E-07	1.0251E-03
520217.19	4259023.07	53787.7566	1.58822	0.25283	1.47242	0.25845	1.02E-03	3.73E-06	5.19E-07	3.46E-06	5.09E-07	1.0306E-03
520480.45	4258877.48	53759.34302	0.29009	0.1515	0.27721	0.15947	1.02E-03	6.81E-07	3.11E-07	6.51E-07	3.14E-07	1.0238E-03
520112.75	425897O.5	53737.75876	7.87503	0.38687	6.6966	0.35868	1.02E-03	1.85E-05	7.93E-07	1.57E-05	7.06E-07	1.0572E-03
520422.91	4258233.39	53728.94688	0.20035	0.38751	0.20559	0.41486	1.02E-03	4.70E-07	7.95E-07	4.83E-07	8.17E-07	1.0239E-03
520539.82	4258743.47	53721.31583	0.21222	0.15953	0.20323	0.1663	1.02E-03	4.98E-07	3.27E-07	4.77E-07	3.27E-07	1.0228E-03
520005.99	4258728.64	53703.78316	1.57224	0.97872	1.92789	0.91919	1.02E-03	3.69E-06	2.01E-06	4.53E-06	1.81E-06	1.0328E-03
520459.7	4258250.83	53677.71601	0.18987	0.31812	0.19276	0.33954	1.02E-03	4.46E-07	6.52E-07	4.53E-07	6.68E-07	1.0235E-03
520295.63	4258242.99	53604.11725	0.24818	0.85747	0.2562	0.93728	1.02E-03	5.83E-07	1.76E-06	6.01E-07	1.85E-06	1.0237E-03
520438.49	4258934.88	53602.84072	0.35876	0.15396	0.34145	0.16204	1.02E-03	8.42E-07	3.16E-07	8.02E-07	3.19E-07	1.0212E-03
520296.4	4259022.93	53596.15361	0.83417	0.18953	0.79051	0.2025	1.02E-03	1.96E-06	3.89E-07	1.86E-06	3.99E-07	1.0234E-03
520495.06	4258285.99	53585.14354	0.18108	0.26734	0.1809	0.28274	1.02E-03	4.25E-07	5.48E-07	4.25E-07	5.57E-07	1.0205E-03
520519.84	4258336.65	53573.26708	0.17792	0.23549	0.17797	0.2478	1.02E-03	4.18E-07	4.83E-07	4.18E-07	4.88E-07	1.0201E-03
520006.86	4258754.86	53564.82096	1.68996	0.83626	2.07927	0.79457	1.02E-03	3.97E-06	1.72E-06	4.88E-06	1.56E-06	1.0303E-03
520462.31	4258905.01	53542.38223	0.31757	0.15204	0.30277	0.16007	1.02E-03	7.46E-07	3.12E-07	7.11E-07	3.15E-07	1.0198E-03
520531.22	4258459.82	53523.11921	0.18823	0.2074	0.18542	0.2191	1.02E-03	4.42E-07	4.25E-07	4.35E-07	4.31E-07	1.0191E-03
520489.86	4258863.58	53430.41337	0.27695	0.15123	0.26504	0.15902	1.02E-03	6.50E-07	3.10E-07	6.22E-07	3.13E-07	1.0175E-03
520325.03	4258233.08	53424.24383	0.23403	0.7004	0.24045	0.75921	1.02E-03	5.49E-07	1.44E-06	5.64E-07	1.49E-06	1.0195E-03
520148.49	4258342.53	53417.9575	0.36086	4.0575	0.37792	4.73336	1.02E-03	8.47E-07	8.32E-06	8.87E-07	9.32E-06	1.0348E-03
520504.47	4258300.03	53400.32952	0.17918	0.25584	0.1787	0.26961	1.02E-03	4.21E-07	5.25E-07	4.20E-07	5.31E-07	1.0169E-03
520355.77	4259002.84	53346.95439	0.56936	0.16596	0.54173	0.1772	1.01E-03	1.34E-06	3.40E-07	1.27E-06	3.49E-07	1.0173E-03
520087.95	4258950.27	53298.27414	16.50572	0.41077	16.44111	0.38246	1.01E-03	3.88E-05	8.42E-07	3.86E-05	7.53E-07	1.0920E-03
520217.2	4258282.75	53276.37	0.29508	1.6721	0.31255	1.87362	1.01E-03	6.93E-07	3.43E-06	7.34E-07	3.69E-06	1.0212E-03
520207.29	4259023.08	53274.97654	1.75388	0.26248	1.61844	0.26553	1.01E-03	4.12E-06	5.38E-07	3.80E-06	5.23E-07	1.0216E-03
520033.34	4258867.77	53249.14449	3.53878	0.50332	4.61327	0.4897	1.01E-03	8.31E-06	1.03E-06	1.08E-05	9.64E-07	1.0333E-03
520039.69	4258569.84	53207.87675	1.2109	4.86356	1.59274	3.7197	1.01E-03	2.84E-06	9.97E-06	3.74E-06	7.32E-06	1.0353E-03
520177.57	4259013.13	53197.21512	2.45643	0.29855	2.22534	0.29226	1.01E-03	5.77E-06	6.12E-07	5.22E-06	5.75E-07	1.0234E-03
520485.9	4258272.06	53194.3661	0.18273	0.27909	0.18331	0.29628	1.01E-03	4.29E-07	5.72E-07	4.30E-07	5.83E-07	1.0131E-03
520168.13	4258322.6	53169.01698	0.33731	3.00231	0.35601	3.42576	1.01E-03	7.92E-07	6.16E-06	8.36E-07	6.74E-06	1.0252E-03
520335.99	4259012.87	53096.19728	0.64271	0.17135	0.6108	0.18352	1.01E-03	1.51E-06	3.51E-07	1.43E-06	3.61E-07	1.0129E-03
520375.56	4258992.8	53059.77155	0.5071	0.16101	0.48262	0.17133	1.01E-03	1.19E-06	3.30E-07	1.13E-06	3.37E-07	1.0116E-03
520468.31	4258254.52	53043.61475	0.18692	0.30508	0.18926	0.32506	1.01E-03	4.39E-07	6.26E-07	4.44E-07	6.40E-07	1.0104E-03
520306.3	4259022.92	53027.64203	0.77944	0.18346	0.7392	0.19636	1.01E-03	1.83E-06	3.76E-07	1.74E-06	3.87E-07	1.0123E-03
520547.59	4258700.97	52990.64375	0.20083	0.16422	0.19273	0.17166	1.01E-03	4.71E-07	3.37E-07	4.52E-07	3.38E-07	1.0089E-03
520177.95	4258312.63	52979.38933	0.3264	2.6264	0.34499	2.99029	1.01E-03	7.66E-07	5.39E-06	8.10E-07	5.89E-06	1.0199E-03
520044.8	4258892.48	52967.57124	4.93667	0.46711	7.16145	0.45128	1.01E-03	1.16E-05	9.58E-07	1.68E-05	8.88E-07	1.0371E-03
520512.2	4258824.31	52963.85553	0.24788	0.15201	0.23761	0.15914	1.01E-03	5.82E-07	3.12E-07	5.58E-07	3.13E-07	1.0085E-03
520432.7	4258233.42	52952.63398	0.19652	0.36798	0.20137	0.39359	1.01E-03	4.61E-07	7.55E-07	4.73E-07	7.75E-07	1.0090E-03
520543.4	4258734.94	52949.99644	0.20826	0.15957	0.19945	0.16646	1.01E-03	4.89E-07	3.27E-07	4.68E-07	3.28E-07	1.0081E-03
520138.67	4258352.5	52933.44512	0.37227	4.84359	0.38911	5.70705	1.01E-03	8.74E-07	9.93E-06	9.14E-07	1.12E-05	1.0291E-03
520109.18	4258392.41	52924.318	0.43063	9.82729	0.4548	11.84313	1.01E-03	1.01E-06	2.02E-05	1.07E-06	2.33E-05	1.0515E-03
520029.81	4258598.97	52884.42774	1.29539	3.21443	1.71407	2.65889	1.01E-03	3.04E-06	6.59E-06	4.02E-06	5.23E-06	1.0241E-03
520266.23	4258252.9	52872.67757	0.26217	1.07409	0.27326	1.18533	1.01E-03	6.15E-07	2.20E-06	6.42E-07	2.33E-06	1.0108E-03
520429.59	4258948.58	52871.41079	0.3767	0.15374	0.35845	0.16188	1.00E-03	8.84E-07	3.15E-07	8.42E-07	3.19E-07	1.0073E-03
520412.34	4258965.73	52866.42353	0.41317	0.1555	0.39347	0.16418	1.00E-03	9.70E-07	3.19E-07	9.24E-07	3.23E-07	1.0074E-03
520499.55	4258849.56	52840.19078	0.26423	0.15082	0.25314	0.15834	1.00E-03	6.20E-07	3.09E-07	5.94E-07	3.12E-07	1.0062E-03
520246.62	4258262.84	52797.09305	0.27367	1.2669	0.28736	1.40697	1.00E-03	6.42E-07	2.60E-06	6.75E-07	2.77E-06	1.0103E-03
520103.61	4258966.72	52765.92673	10.1761	0.39125	8.69025	0.36269	1.00E-03	2.39E-05	8.02E-07	2.04E-05	7.14E-07	1.0488E-03
520383.79	4258223.27	52693.7461	0.21077	0.48693	0.21695	0.52189	1.00E-03	4.95E-07	9.99E-07	5.09E-07	1.03E-06	1.0046E-03
520374	4258223.24	52665.99325	0.21395	0.51624	0.22012	0.55382	1.00E-03	5.02E-07	1.06E-06	5.17E-07	1.09E-06	1.0043E-03
520315.24	4258233.05	52633.38288	0.23669	0.74913	0.24353	0.81401	1.00E-03	5.56E-07	1.54E-06	5.72E-07	1.60E-06	1.0047E-03
520197.39	4259023.1	52630.88976	1.94881	0.27216	1.78884	0.27222	1.00E-03	4.58E-06	5.58E-07	4.20E-06	5.36E-07	1.0103E-03
520514.15	4258314.19	52627.47405	0.17709	0.24417	0.17673	0.25678	1.00E-03	4.16E-07	5.01E-07	4.15E-07	5.05E-07	1.0022E-03
520007.47	4258780.46	52597.54505	1.81517	0.7217	2.19534	0.69373	1.00E-03	4.26E-06	1.48E-06	5.15E-06	1.37E-06	1.0120E-03
520393.58	4258223.3	52568.44161	0.20748	0.45987	0.21361	0.49248	9.99E-04	4.87E-07	9.43E-07	5.01E-07	9.69E-07	1.0021E-03
520364.21	4258223.21	52564.05598	0.21711	0.54783	0.22317	0.58863	9.99E-04	5.10E-07	1.12E-06	5.24E-07	1.16E-06	1.0025E-03
520059.43	4258918.51	52537.50618	8.30808	0.4369	18.78784	0.41671	9.99E-04	1.95E-05	8.96E-07	4.41E-05	8.20E-07	1.0640E-03
520285.84	4258242.96	52495.07635	0.25056	0.92333	0.25955	1.01236	9.98E-04	5.88E-07	1.89E-06	6.09E-07	1.99E-06	1.0029E-03
520187.77	4258302.66	52447.34572	0.31536	2.32254	0.3339	2.63168	9.97E-04	7.40E-07	4.76E-06	7.84E-07	5.18E-06	1.0084E-03
520403.37	4258223.33	52371.39693	0.20418	0.43471	0.2101	0.46538	9.95E-04	4.79E-07	8.92E-07	4.93E-07	9.16E-07	0.9827E-04
520456.29	4258917.51	52369.84253	0.32732	0.15115	0.3118	0.15907	9.95E-04	7.68E-07	3.10E-07	7.32E-07	3.13E-07	0.9758E-04
520049.56	4258540.7	52344.02875	1.03533	7.62916	1.2709	5.3466	9.95E-04	2.43E-06	1.56E-05	2.98E-06	1.05E-05	1.0266E-03
520534.94	4258417.86	52330.15172	0.18154	0.20985	0.17939	0.22144	9.95E-04	4.26E-07	4.30E-07	4.21E-07	4.36E-07	0.9642E-04
520354.42	4258223.18	52305.21392	0.22013	0.58213	0.22611	0.62656	9.94E-04	5.17E-07	1.19E-06	5.31E-07	1.23E-06	0.9770E-04
520316.2	4259022.9	52304.18117	0.72959	0.17776	0.6922	0.19046	9.94E-04	1.71E-06	3.65E-07	1.63E-06	3.75E-07	0.9829E-04
520476.93	4258258.21	52259.10792	0.18393	0.29283	0.1857	0.31146	9.93E-04	4.32E-07	6.01E-07	4.36E-07	6.13E-07	0.9543E-04
520015.13	4258823.02	52252.81191	2.24438	0.59076	2.73789	0.57439	9.93E-04	5.27E-06	1.21E-06	6.43E-06	1.13E-06	1.0073E-03
520049.2	4258904.29	52229.04617	5.72055	0.45004	8.91349	0.43333	9.93E-04	1.34E-05	9.23E-07	2.09E-05	8.53E-07	1.0289E-03
520256.81	4259033	52187.50346	1.12134	0.21323	1.05434	0.2242	9.92E-04	2.63E-06	4.37E-07	2.48E-06	4.41E-07	0.9798E-04
520534.65	4258442.96	52161.93531	0.18452	0.20707	0.18201	0.21849	9.92E-04	4.33E-07	4.25E-07	4.27E-07	4.30E-07	0.9322E-04
520266.71	4259032.98	52161.39039	1.03758	0.20588	0.97815	0.21753	9.91E-04	2.44E-06	4.22E-07	2.30E-06	4.28E-07	0.9708E-04
520531.95	4258371.87	52160.98345	0.17731	0.21829	0.17651	0.23064	9.91E-04	4.16E-07	4.48E-07	4.14E-07	4.54E-07	0.9322E-04
520227.02	4258272.78	52160.46211	0.2845	1.51982	0.30077	1.69736	9.91E-04	6.68E-07	3.12E-06	7.06E-07	3.34E-06	0.9931E-04
520246.91	4259033.02	52158.56943	1.2162	0.22111	1.14031	0.23112	9.91E-04	2.86E-06	4.53E-07	2.68E-06	4.55E-07	0.9788E-04
520395.34	4258982.77	52155.39248	0.45387	0.15639	0.43183	0.16583	9.91E-04	1.07E-06	3.21E-07	1.01E-06	3.26E-07	0.9441E-04
520167.67	4259013.15	52150.79861	2.79852	0.30764	2.51735	0.29757	9.91E-04	6.57E-06	6.31E-07	5.91E-06	5.86E-07	1.0050E-03
520442.49	4258233.45	52104.8772	0.19273	0.34973	0.1971	0.37383	9.90E-04	4.52E-07	7.17E-07	4.63E-07	7.36E-07	0.9279E-04
520345.89	4259012.85	52085.90549	0.60481	0.1668	0.57493	0.17845	9.90E-04	1.42E-06	3.42E-07	1.35E-06	3.51E-07	0.9352E-04
520365.67	4259002.82	52077.93488	0.53737	0.16171	0.51118	0.17242	9.90E-04	1.26E-06	3.32E-07	1.20E-06	3.39E-07	0.9304E-04
520034.75	4258878.34	52059.04821	3.69518	0.48221	4.86576	0.46908	9.90E-04	8.68E-06	9.89E-07	1.14E-05	9.23E-07	1.0116E-03
520546.97	4258726.4	52046.27685	0.20442	0.15946	0.1958	0.16649	9.89E-04	4.80E-07	3.27E-07	4.60E-07	3.28E-07	0.9090E-04
520020.34	4258842.42	52037.74906	2.5567	0.54539	3.15349	0.53178	9.89E-04	6.00E-06	1.12E-06	7.40E-06	1.05E-06	1.0047E-03
520237.01	4259033.03	52027.95404	1.32402	0.22943	1.23738	0.23813	9.89E-04	3.11E-06	4.71E-07	2.90E-06	4.69E-07	0.9591E-04
520128.85	4258362.47	52024.00474	0.38325	5.92358	0.40067	7.02607	9.89E-04	9.00E-07	1.21E-05	9.41E-07	1.38E-05	1.0167E-03
520530.6	4258363.28	51965.60785	0.17651	0.22109	0.17608	0.23341	9.88E-04	4.14E-07	4.53E-07	4.13E-07	4.59E-07	0.8951E-04
520451.47	4258237.29	51960.39183	0.19014	0.33347	0.19395	0.35623	9.88E-04	4.46E-07	6.84E-07	4.55E-07	7.01E-07	0.8996E-04
520276.61	4259032.97	51959.98386	0.96259	0.19884	0.90928	0.21094	9.88E-04	2.26E-06	4.08E-07	2.13E-06	4.15E-07	0.9288E-04
520158.68	4259009.44	51909.04	1.17876	0.31851	2.83875	0.30509	9.88E-04	7.46E-06	6.53E-07	6.66E-06	6.01E-07	1.0029E-03
520413.16	4258223.36	51938.97954	0.20068	0.41164	0.20641	0.44032	9.87E-04	4.71E-07	8.44E-07	4.85E-07	8.67E-07	0.8993E-04
520503.84	4258289.75	51937.56694	0.17777	0.25747	0.17738	0.27163	9.87E-04	4.17E-07	5.28E-07	4.16E-07	5.35E-07	0.8914E-04
520447.13	4258931.31	51935.67111	0.34331	0.15129	0.32681	0.15918	9.87E-04	8.06E-07	3.10E-07	7.67E-07	3.13E-07	0.8940E-04
520494.59	4258275.78	51930.65186	0.17954	0.26867	0.17968	0.28452	9.87E-04	4.22E-07	5.51E-07	4.22E-07	5.60E-07	0.8906E-04
520094.46	4258962.95	51925.37528	13.68566	0.39444	12.14811	0.36641	9.87E-04	3.21E-05	8.09E-07	2.85E-05	7.21E-07	1.0492E-03
520479.72	4258887.79	51889.70253	0.29201	0.14953	0.27916	0.15731	9.86E-04	6.86E-07	3.07E-07	6.55E-07	3.10E-07	0.8829E-04
520019.93	4258628.11	51863.93831	1.32087	2.24134	1.70421	1.94819	9.86E-04	3.10E-06	4.60E-06	4.00E-06	3.83E-06	1.0014E-03
520344.64	4258223.15	51860.30452	0.22294	0.61948	0.22897	0.66789	9.86E-04	5.23E-07	1.27E-06	5.38E-07	1.31E-06	0.8942E-04
520187.49	4259023.12	51854.65768	2.18105	0.2817	1.99037	0.27846	9.86E-04	5.12E-06	5.78E-07	4.67E-06	5.48E-07	0.9658E-04
520420.85	4258962.2	51829.59005	0.39513	0.15333	0.37623	0.16164	9.85E-04	9.28E-07	3.14E-07	8.83E-07	3.18E-07	0.8763E-04
520113.27	4258980.7	51821.79389	7.89723	0.37383	6.66998	0.34655	9.85E-04	1.85E-05	7.67E-07	1.57E-05	6.82E-07	1.0207E-03
520197.59	4259292.69	51804.50569	0.30468	2.07052	0.32281	2.33741	9.85E-04	7.15E-07	4.25E-06	7.58E-07	4.60E-06	0.9503E-04
520007.12	4258683.15	51795.19095	1.37204	1.32904	1.6948	1.21691	9.85E-04	3.22E-06	2.73E-06	3.98E-06	2.40E-06	0.9685E-04
520525.4	4258801.87	51774.07296	0.23236	0.15207	0.22269	0.15879	9.84E-04	5.46E-07	3.12E-07	5.23E-07	3.13E-07	0.8582E-04
520227.11	4259033.05	51773.26276	1.44734	0.23812	1.3476	0.24511	9.84E-04	3.40E-06	4.88E-07	3.16E-06	4.82E-07	0.9165E-04
520470.69	4258901.54	51771.97826	0.3054	0.14951	0.29135	0.15734	9.84E-04	7.17E-07	3.07E-07	6.84E-07	3.10E-07	0.8611E-04
520305.45	4258233.02	51756.46872	0.23922	0.80275	0.24669	0.8747	9.84E-04	5.62E-07	1.65E-06	5.79E-07	1.72E-06	0.8831E-04
520534.32	4258382.9	51728.63554	0.17759	0.2147	0.17634	0.22687	9.83E-04	4.17E-07	4.40E-07	4.14E-07	4.47E-07	0.8499E-04
520528.93	4257893.43	51719.30066	0.22807	0.15266	0.21857	0.15929	9.83E-04	5.35E-07	3.13E-07	5.14E-07	3.14E-07	0.8477E-04
520149.69	4259005.73	51684.17746	3.65988	0.32897	3.24065	0.31221	9.82E-04	8.59E-06	6.75E-07	7.61E-06	6.15E-07	0.9991E-04
520286.51	4259032.95	51649.89643	0.89537	0.19214	0.84701	0.20452	9.82E-04	2.10E-06	3.94E-07	1.99E-06	4.03E-07	0.8666E-04
520003.14	4258746.9	51643.42803	1.54648	0.86765	1.88355	0.82097	9.82E-04	3.63E-06	1.78E-06	4.42E-06	1.62E-06	0.9310E-04
520488.97	4258873.96	51642.74893	0.27914	0.14893	0.26693	0.15663	9.82E-04	6.55E-07	3.05E-07	6.27E-07	3.08E-07	0.8353E-04
520460.45	4258241.14	51603.4084	0.18738	0.31853	0.19063	0.33991	9.81E-04	4.40E-07	6.53E-07	4.48E-07	6.69E-07	0.8310E-04
520011.5	4258834.28	51587.76101	2.06004	0.61102	2.50103	0.59283	9.81E-04	4.84E-06	1.25E-06	5.87E-06	1.17E-06	0.9372E-04
520532.46	4258785	51585.3233	0.22385	0.1533	0.21455	0.15983	9.81E-04	5.26E-07	3.14E-07	5.04E-07	3.15E-07	0.8220E-04
520326.1	4259022.89	51546.71655	0.68439	0.17253	0.6495	0.18491	9.80E-04	1.61E-06	3.54E-07	1.52E-06	3.64E-07	0.8366E-04
520529.45	4258350.78	51534.27337	0.17559	0.22377	0.1754	0.23595	9.80E-04	4.12E-07	4.59E-07	4.12E-07	4.64E-07	0.8132E-04
520385.46	4258992.79	51522.71008	0.47982	0.15705	0.45662	0.16687	9.79E-04	1.13E-06	3.22E-07	1.07E-06	3.28E-07	0.8220E-04
520551.22	4258692.32	51497.93615	0.19717	0.16419	0.18933	0.17151	9.79E-04	4.63E-07	3.37E-07	4.44E-07	3.38E-07	0.8046E-04
520017.12	4258636.77	51496.34068	1.31954	2.02975	1.68549	1.78629	9.79E-04	3.10E-06	4.16E-06	3.96E-06	3.52E-06	0.9359E-04
520022.72	4258853.39	51491.17727	2.71947	0.5215	3.1783	0.50893	9.79E-04	6.38E-06	1.07E-06	7.93E-06	1.00E-06	0.9518E-04
520511.13	4258834.76	51485.41954	0.2502	0.14979	0.23979	0.15692	9.79E-04	5.87E-07	3.07E-07	5.63E-07	3.09E-07	0.8041E-04
520485.55	4258261.89	51427.13856	0.181	0.28097	0.1821	0.29846	9.78E-04	4.25E-07	5.76E-07	4.28E-07	5.88E-07	0.7955E-04
520217.21	4259033.07	51411.27756	1.58964	0.24724	1.47397	0.252	9.77E-04	3.73E-06	5.07E-07	3.46E-06	4.96E-07	0.8543E-04
520403.79	4258979.27	51410.35652	0.43352	0.15425	0.41242	0.16329	9.77E-04	1.02E-06	3.16E-07	9.68E-07	3.21E-07	0.7984E-04
520256.44	4258252.87	51393.36114	0.26375	1.16754	0.27629	1.29228	9.77E-04	6.19E-07	2.39E-06	6.49E-07	2.54E-06	0.8310E-04
520513.34	4258303.83	51390.38429	0.1758	0.24625	0.17533	0.25902	9.77E-04	4.13E-07	5.05E-07	4.12E-07	5.10E-07	0.7868E-04
520422.94	4258223.39	51389.70531	0.19714	0.39028	0.20259	0.41718	9.77E-04	4.63E-07	8.00E-07	4.76E-07	8.21E-07	0.7939E-04
520140.71	4259002.02	51382.53332	4.29441	0.33894	3.76041	0.31895	9.77E-04	1.01E-05	6.95E-07	8.83E-06	6.28E-07	0.9692E-04
520535.99	4258776.56	51368.47685	0.21971	0.1539	0.21058	0.16032	9.76E-04	5.16E-07	3.16E-07	4.94E-07	3.16E-07	0.7806E-04
520438.16	4258945.03	51356.61052	0.36031	0.15123	0.34285	0.15913	9.76E-04	8.46E-07	3.10E-07	8.05E-07	3.13E-07	0.7847E-04
520334.85	4258223.12	51355.84737	0.22573	0.66005	0.23186	0.71333	9.76E-04	5.30E-07	1.35E-06	5.44E-07	1.40E-06	0.8001E-04
520004.25	4258700.34	51337.42457	1.38572	1.16109	1.69441	1.07433	9.76E-04	3.25E-06	2.38E-06	3.98E-06	2.11E-06	0.8755E-04
520276.05	4258242.93	51285.56373	0.25264	0.99701	0.26282	1.09652	9.75E-04	5.93E-07	2.04E-06	6.17E-07	2.16E-06	0.8026E-04
520296.42	4259032.93	51231.94341	0.83473	0.18577	0.79036	0.19827	9.74E-04	1.96E-06	3.81E-07	1.86E-06	3.90E-07	0.7841E-04
520498.46	4258860.02	51218.71692	0.26657	0.14867	0.25531	0.15615	9.74E-04	6.26E-07	3.05E-07	5.99E-07	3.07E-07	0.7541E-04
520003.81	4258779.55	51181.73719	1.66241	0.7483	2.002	0.71654	9.73E-04	3.90E-06	1.53E-06	4.70E-06	1.41E-06	0.8442E-04
520534.69	4258468.95	51082.91247	0.18702	0.20315	0.18388	0.21469	9.71E-04	4.39E-07	4.17E-07

520040.1	4258900.54	50186.90411	4.32893	0.44531	5.9603	0.43208	9.54E-04	1.02E-05	9.13E-07	1.40E-05	8.51E-07	9.7988E-04
520546.59	4258751.26	50135.92322	0.20782	0.15494	0.19907	0.16132	9.53E-04	4.88E-07	3.18E-07	4.67E-07	3.18E-07	9.5458E-04
520364.24	4258213.21	50124.80387	0.21259	0.55128	0.21832	0.59191	9.53E-04	4.99E-07	1.13E-06	5.13E-07	1.17E-06	9.5609E-04
520512.62	4258293.51	50087.11755	0.17445	0.24812	0.174	0.26111	9.52E-04	4.10E-07	5.09E-07	4.08E-07	5.14E-07	9.5391E-04
520316.22	4259032.9	50052.05277	0.73016	0.17428	0.69214	0.18663	9.51E-04	1.71E-06	3.57E-07	1.62E-06	3.67E-07	9.5546E-04
520217.23	4258272.75	50047.74357	0.28405	1.68176	0.30095	1.8825	9.51E-04	6.67E-07	3.45E-06	7.07E-07	3.71E-06	9.5985E-04
520442.52	4258223.45	50027.51265	0.19005	0.35187	0.19467	0.37578	9.51E-04	4.46E-07	7.22E-07	4.57E-07	7.40E-07	9.5330E-04
520479.07	4258898.07	50024.81409	0.29389	0.14726	0.28074	0.15488	9.51E-04	6.90E-07	3.02E-07	6.59E-07	3.05E-07	9.5284E-04
520403.4	4258213.33	50020.49217	0.20047	0.43788	0.20636	0.46796	9.51E-04	4.71E-07	8.98E-07	4.84E-07	9.21E-07	9.5357E-04
520167.69	4259023.15	50019.17754	2.80632	0.29947	2.52645	0.2891	9.51E-04	6.59E-06	6.14E-07	5.93E-06	5.69E-07	9.6448E-04
520451.41	4258227.26	49978.86458	0.18772	0.33537	0.19182	0.3581	9.50E-04	4.41E-07	6.88E-07	4.50E-07	7.05E-07	9.5229E-04
520266.26	4258242.9	49978.74312	0.25435	1.07993	0.26585	1.19131	9.50E-04	5.97E-07	2.21E-06	6.24E-07	2.35E-06	9.5579E-04
520315.27	4258223.05	49969.18471	0.23081	0.75318	0.23779	0.81824	9.50E-04	5.42E-07	1.54E-06	5.58E-07	1.61E-06	9.5408E-04
520099.36	4258402.38	49956.11732	0.44004	14.01788	0.46876	15.73276	9.50E-04	1.03E-06	2.87E-05	1.10E-06	3.10E-05	1.0114E-03
520095.14	4258973.22	49932.56186	13.38111	0.37983	11.83297	0.35309	9.49E-04	3.14E-05	7.79E-07	2.78E-05	6.95E-07	1.0098E-03
520488.17	4258884.29	49923.47747	0.28108	0.14693	0.26883	0.15449	9.49E-04	6.60E-07	3.01E-07	6.31E-07	3.04E-07	9.5085E-04
520266.73	4259042.98	49887.79774	1.03819	0.20173	0.97811	0.21279	9.48E-04	2.44E-06	4.14E-07	2.30E-06	4.19E-07	9.5384E-04
520395.36	4258992.77	49884.01248	0.45465	0.15313	0.43236	0.1625	9.48E-04	1.07E-06	3.14E-07	1.02E-06	3.20E-07	9.5092E-04
520554.12	4258709.33	49855.29915	0.19708	0.15927	0.18896	0.16642	9.48E-04	4.63E-07	3.27E-07	4.44E-07	3.28E-07	9.4922E-04
520158.77	4259019.47	49841.20528	3.18862	0.30963	2.84869	0.29611	9.47E-04	7.48E-06	6.35E-07	6.69E-06	5.83E-07	9.6278E-04
520354.46	4258213.18	49835.52557	0.21536	0.5856	0.22107	0.62994	9.47E-04	5.06E-07	1.20E-06	5.19E-07	1.24E-06	9.5075E-04
520246.93	4259043.02	49834.12762	1.21655	0.21646	1.14023	0.22582	9.47E-04	2.86E-06	4.44E-07	2.68E-06	4.45E-07	9.5368E-04
520256.83	4259043	49822.00083	1.12107	0.20875	1.05353	0.21911	9.47E-04	2.63E-06	4.28E-07	2.47E-06	4.31E-07	9.5299E-04
520345.9	4259022.85	49814.4603	0.6054	0.16324	0.57474	0.17474	9.47E-04	1.42E-06	3.35E-07	1.35E-06	3.44E-07	9.5033E-04
520004.25	4258796.8	49803.90937	1.74678	0.65376	2.09638	0.63103	9.47E-04	4.10E-06	1.34E-06	4.92E-06	1.24E-06	9.5829E-04
520365.69	4259012.82	49802.85003	0.53797	0.15836	0.5114	0.16895	9.47E-04	1.26E-06	3.25E-07	1.20E-06	3.33E-07	9.4978E-04
520246.66	4258252.84	49796.45581	0.26476	1.27394	0.27867	1.41373	9.47E-04	6.22E-07	2.61E-06	6.54E-07	2.78E-06	9.5321E-04
520237.03	4259043.03	49778.72409	1.32514	0.22463	1.23836	0.23262	9.46E-04	3.11E-06	4.61E-07	2.91E-06	4.58E-07	9.5314E-04
520446.73	4258941.48	49777.30603	0.34463	0.14864	0.32798	0.15634	9.46E-04	8.09E-07	3.05E-07	7.70E-07	3.08E-07	9.4837E-04
520285.87	4258232.96	49715.23902	0.24365	0.92823	0.25303	1.01746	9.45E-04	5.72E-07	1.90E-06	5.94E-07	2.00E-06	9.5007E-04
520276.63	4259042.97	49700.08087	0.96315	0.1949	0.90916	0.20646	9.45E-04	2.26E-06	4.00E-07	2.13E-06	4.06E-07	9.4991E-04
520460.31	4258231.06	49688.35545	0.18516	0.32037	0.18877	0.3418	9.44E-04	4.35E-07	6.57E-07	4.43E-07	6.73E-07	9.4660E-04
520413.19	4258213.36	49681.83144	0.19724	0.41455	0.203	0.44274	9.44E-04	4.63E-07	8.50E-07	4.77E-07	8.72E-07	9.4702E-04
520025.9	4258874.69	49671.07449	2.97054	0.478	3.73421	0.46695	9.44E-04	6.97E-06	9.80E-07	8.77E-06	9.19E-07	9.6180E-04
520168.16	4258312.6	49669.10503	0.32169	3.01447	0.33777	3.44665	9.44E-04	7.55E-07	6.18E-06	7.93E-07	6.78E-06	9.5864E-04
520420.69	4258972.28	49635.33393	0.39637	0.15032	0.37739	0.15858	9.43E-04	9.31E-07	3.08E-07	8.86E-07	3.12E-07	9.4591E-04
520497.49	4258870.43	49589.53069	0.26876	0.14647	0.25723	0.1539	9.43E-04	6.31E-07	3.00E-07	6.04E-07	3.03E-07	9.4445E-04
520149.85	4259015.79	49578.11913	3.66539	0.31928	3.24685	0.30267	9.42E-04	8.61E-06	6.55E-07	7.62E-06	5.96E-07	9.5987E-04
520158.34	4258232.56	49575.84239	0.33155	3.48488	0.34726	3.99903	9.42E-04	7.78E-07	7.15E-06	8.15E-07	7.87E-06	9.5896E-04
520227.13	4259043.05	49557.11074	1.44862	0.23309	1.34917	0.23934	9.42E-04	3.40E-06	4.78E-07	3.17E-06	4.71E-07	9.4951E-04
520000.14	4258762.77	49512.7052	1.51737	0.77591	1.82693	0.73932	9.41E-04	3.56E-06	1.59E-06	4.29E-06	1.46E-06	9.5205E-04
520550.12	4258742.83	49510.13172	0.20404	0.15508	0.19546	0.16156	9.41E-04	4.79E-07	3.18E-07	4.59E-07	3.18E-07	9.4267E-04
520487.38	4258252.66	49492.95819	0.17858	0.27941	0.18	0.29694	9.41E-04	4.19E-07	5.73E-07	4.23E-07	5.85E-07	9.4277E-04
520187.51	4259033.12	49480.79549	2.17737	0.27429	1.98822	0.2706	9.41E-04	5.11E-06	5.63E-07	4.67E-06	5.33E-07	9.5142E-04
520177.98	4258302.63	49446.00498	0.31167	2.64031	0.32825	3.00201	9.40E-04	7.32E-07	5.42E-06	7.71E-07	5.91E-06	9.5271E-04
519999.42	4258736.93	49444.58686	1.40886	0.89888	1.70178	0.8466	9.40E-04	3.31E-06	1.84E-06	4.00E-06	1.67E-06	9.5067E-04
520344.67	4258213.15	49384.24692	0.21796	0.62301	0.2238	0.67146	9.39E-04	5.12E-07	1.28E-06	5.25E-07	1.32E-06	9.4234E-04
520336.12	4259032.89	49377.9411	0.68499	0.16918	0.64958	0.18128	9.39E-04	1.61E-06	3.47E-07	1.53E-06	3.57E-07	9.4242E-04
520286.53	4259042.95	49323.81678	0.89539	0.18821	0.84601	0.20009	9.38E-04	2.10E-06	3.86E-07	1.99E-06	3.94E-07	9.4242E-04
520437.86	4258955.16	49313.96182	0.36195	0.14858	0.34439	0.15633	9.37E-04	8.50E-07	3.05E-07	8.09E-07	3.08E-07	9.3964E-04
520522.21	4258307.63	49293.71335	0.17249	0.23609	0.17205	0.24895	9.37E-04	4.05E-07	4.86E-07	4.04E-07	4.90E-07	9.3877E-04
520385.47	4259002.79	49285.24123	0.48054	0.1538	0.45705	0.16353	9.37E-04	1.13E-06	3.15E-07	1.07E-06	3.22E-07	9.3966E-04
520140.93	4259012.11	49256.28601	4.2789	0.32828	3.75292	0.30877	9.36E-04	1.00E-05	6.73E-07	8.81E-06	6.08E-07	9.5641E-04
520061.39	4258939.3	49247.53632	9.06667	0.40428	19.47478	0.38534	9.36E-04	2.13E-05	8.29E-07	4.57E-05	7.59E-07	1.0047E-03
520051.52	4258925.24	49241.67015	6.24871	0.41594	10.25635	0.40004	9.36E-04	1.47E-05	8.53E-07	2.41E-05	7.87E-07	9.7638E-04
520422.98	4258213.39	49210.04238	0.19393	0.39295	0.19948	0.41939	9.35E-04	4.55E-07	8.06E-07	4.68E-07	8.26E-07	9.3795E-04
520217.23	4259043.07	49203.63464	1.59085	0.24173	1.47568	0.24586	9.35E-04	3.73E-06	4.96E-07	3.46E-06	4.84E-07	9.4345E-04
520469.2	4258234.87	49177.75301	0.18242	0.30666	0.18557	0.3267	9.35E-04	4.28E-07	6.29E-07	4.36E-07	6.43E-07	9.3692E-04
520473.72	4258910.29	49173.11027	0.30212	0.14624	0.28823	0.1538	9.35E-04	7.09E-07	3.00E-07	6.77E-07	3.03E-07	9.3668E-04
520404.09	4258989.16	49167.46623	0.43367	0.15092	0.41233	0.1599	9.35E-04	1.02E-06	3.10E-07	9.68E-07	3.15E-07	9.3720E-04
520305.48	4258223.02	49150.71808	0.23316	0.80684	0.24084	0.87923	9.34E-04	5.47E-07	1.65E-06	5.65E-07	1.73E-06	9.3876E-04
520227.05	4258262.78	49084.97638	0.27436	1.52854	0.29036	1.70522	9.33E-04	6.44E-07	3.13E-06	6.82E-07	3.36E-06	9.4083E-04
520538.16	4258478.07	49075.74495	0.18586	0.19953	0.18235	0.21084	9.33E-04	4.36E-07	4.09E-07	4.28E-07	4.15E-07	9.3453E-04
520507.07	4258856.46	49051.0803	0.25678	0.14608	0.246	0.15327	9.32E-04	6.03E-07	3.00E-07	5.78E-07	3.02E-07	9.3415E-04
520086.07	4258969.48	49050.76739	14.12102	0.38064	18.36207	0.35556	9.32E-04	3.32E-05	7.81E-07	4.31E-05	7.00E-07	1.0101E-03
520502.79	4258269.27	49046.58877	0.17491	0.26023	0.17504	0.27525	9.32E-04	4.11E-07	5.34E-07	4.11E-07	5.42E-07	9.3418E-04
520029.77	4258589.27	49037.22162	1.17454	3.3659	1.54052	2.76174	9.32E-04	2.76E-06	6.90E-06	3.62E-06	5.44E-06	9.5082E-04
520187.8	4258292.66	49022.26699	0.30174	2.3358	0.31865	2.64153	9.32E-04	7.08E-07	4.79E-06	7.48E-07	5.20E-06	9.4327E-04
520138.7	4258342.5	49006.32667	0.35212	4.86375	0.36653	5.72042	9.32E-04	8.27E-07	9.98E-06	8.60E-07	1.13E-05	9.5444E-04
520132.02	4259008.43	48892.27455	5.09011	0.33638	4.41394	0.31434	9.29E-04	1.19E-05	6.90E-07	1.04E-05	6.19E-07	9.5297E-04
520296.43	4259042.93	48887.23938	0.83443	0.18199	0.78915	0.19404	9.29E-04	1.96E-06	3.73E-07	1.85E-06	3.82E-07	9.3382E-04
520041.4	4258911.07	48878.88804	4.51393	0.42801	6.30897	0.41506	9.29E-04	1.06E-05	8.78E-07	1.48E-05	8.17E-07	9.5620E-04
520334.88	4258213.12	48842.46983	0.22046	0.6637	0.22658	0.71696	9.28E-04	5.18E-07	1.36E-06	5.32E-07	1.41E-06	9.3223E-04
520511.98	4258283.22	48832.89653	0.17314	0.24963	0.17277	0.26301	9.28E-04	4.06E-07	5.12E-07	4.06E-07	5.18E-07	9.3007E-04
520542.05	4258410.67	48829.29932	0.17703	0.20518	0.17489	0.21635	9.28E-04	4.16E-07	4.21E-07	4.11E-07	4.26E-07	9.2983E-04
520019.89	4258618.41	48821.82738	1.21338	2.36728	1.55596	2.04395	9.28E-04	2.85E-06	4.86E-06	3.65E-06	4.02E-06	9.4339E-04
520464.41	4258924.15	48795.56843	0.31602	0.14634	0.30115	0.15388	9.28E-04	7.42E-07	3.00E-07	7.07E-07	3.03E-07	9.2957E-04
520007.12	4258664.6	48794.9619	1.24983	1.49798	1.54488	1.35767	9.28E-04	2.93E-06	3.07E-06	3.63E-06	2.67E-06	9.3981E-04
520355.8	4259022.84	48779.54041	0.5706	0.15898	0.54167	0.16998	9.27E-04	1.34E-06	3.26E-07	1.27E-06	3.35E-07	9.3048E-04
520541.61	4258435.38	48768.84093	0.17992	0.2026	0.17741	0.21358	9.27E-04	4.22E-07	4.16E-07	4.17E-07	4.20E-07	9.2868E-04
520553.65	4258734.39	48768.36828	0.20039	0.15503	0.19195	0.16164	9.27E-04	4.70E-07	3.18E-07	4.51E-07	3.18E-07	9.2856E-04
520207.32	4259043.08	48744.07634	1.75653	0.25049	1.6219	0.25214	9.27E-04	4.12E-06	5.14E-07	3.81E-06	4.96E-07	9.3548E-04
520177.6	4259033.13	48709.51663	2.45858	0.28306	2.23125	0.27598	9.26E-04	5.77E-06	5.81E-07	5.24E-06	5.43E-07	9.3801E-04
520432.76	4258213.42	48673.55608	0.19063	0.37283	0.19587	0.39779	9.25E-04	4.48E-07	7.65E-07	4.60E-07	7.83E-07	9.2765E-04
520000.62	4258788.06	48667.10484	1.61024	0.67614	1.92163	0.65062	9.25E-04	3.78E-06	1.39E-06	4.51E-06	1.28E-06	9.3603E-04
520109.21	4258382.41	48663.60889	0.40343	9.86337	0.42459	11.85859	9.25E-04	9.47E-07	2.02E-05	9.97E-07	2.33E-05	9.7052E-04
520013.67	4258849.66	48637.59529	2.23652	0.51788	2.71056	0.50576	9.25E-04	5.25E-06	1.06E-06	6.36E-06	9.96E-07	9.3818E-04
520027.27	4258885.25	48631.13569	3.08733	0.45838	3.90798	0.44787	9.24E-04	7.25E-06	9.40E-07	9.17E-06	8.82E-07	9.4263E-04
520539.44	4258365.07	48627.52332	0.17282	0.21289	0.17207	0.2247	9.24E-04	4.06E-07	4.37E-07	4.04E-07	4.42E-07	9.2601E-04
520008.1	4258830.19	48601.46538	1.96654	0.55895	2.35671	0.54413	9.24E-04	4.62E-06	1.15E-06	5.53E-06	1.07E-06	9.3619E-04
520557.69	4258700.8	48598.35108	0.1936	0.15932	0.18577	0.16639	9.24E-04	4.55E-07	3.27E-07	4.36E-07	3.28E-07	9.2531E-04
520429.13	4258968.78	48595.17174	0.37956	0.14814	0.36122	0.15607	9.24E-04	8.91E-07	3.04E-07	8.48E-07	3.07E-07	9.2606E-04
520276.08	4258232.93	48581.26838	0.24548	1.00212	0.25603	1.10198	9.23E-04	5.76E-07	2.06E-06	6.01E-07	2.17E-06	9.2884E-04
520336.02	4259032.87	48576.61227	0.64365	0.16444	0.61053	0.17619	9.23E-04	1.51E-06	3.37E-07	1.43E-06	3.47E-07	9.2698E-04
520256.48	4258242.87	48565.65748	0.25559	1.17375	0.26841	1.29839	9.23E-04	6.00E-07	2.41E-06	6.30E-07	2.56E-06	9.2934E-04
520478.09	4258238.67	48558.12968	0.17963	0.2937	0.18223	0.3125	9.23E-04	4.22E-07	6.02E-07	4.28E-07	6.15E-07	9.2507E-04
520375.59	4259012.8	48544.57112	0.50838	0.15446	0.48339	0.16455	9.23E-04	1.19E-06	3.17E-07	1.13E-06	3.24E-07	9.2571E-04
520540.93	4258375.72	48539.10895	0.17346	0.21015	0.1723	0.22189	9.23E-04	4.07E-07	4.31E-07	4.05E-07	4.37E-07	9.2432E-04
520197.62	4258282.69	48516.19038	0.29214	2.08264	0.30899	2.3465	9.22E-04	6.86E-07	4.27E-06	7.25E-07	4.62E-06	9.3251E-04
520538.17	4258354.51	48474.97245	0.17204	0.2154	0.17161	0.22716	9.21E-04	4.04E-07	4.42E-07	4.03E-07	4.47E-07	9.2312E-04
520306.33	4259042.92	48470.92257	0.78014	0.17631	0.73842	0.1884	9.21E-04	1.83E-06	3.62E-07	1.73E-06	3.71E-07	9.2564E-04
520038.65	4258560.14	48467.78435	1.07981	5.00718	1.37521	3.83459	9.21E-04	2.54E-06	1.03E-05	3.23E-06	7.55E-06	9.4487E-04
520496.36	4258256.51	48432.04771	0.17551	0.26842	0.17638	0.28466	9.21E-04	4.12E-07	5.51E-07	4.14E-07	5.60E-07	9.2254E-04
520412.82	4258985.54	48355.64303	0.41396	0.14896	0.39376	0.15754	9.19E-04	9.72E-07	3.06E-07	9.24E-07	3.10E-07	9.2167E-04
520455.3	4258937.93	48323.80362	0.33048	0.14626	0.31466	0.15377	9.19E-04	7.76E-07	3.00E-07	7.39E-07	3.03E-07	9.2067E-04
520123.1	4259004.75	48286.17482	6.14886	0.34272	5.27964	0.31889	9.18E-04	1.44E-05	7.03E-07	1.24E-05	6.28E-07	9.4599E-04
520487.45	4258894.6	48274.65997	0.28282	0.14496	0.27064	0.15233	9.18E-04	6.64E-07	2.97E-07	6.35E-07	3.00E-07	9.1951E-04
520516.95	4258842.36	48255.50498	0.24515	0.14552	0.23493	0.15242	9.17E-04	5.76E-07	2.98E-07	5.52E-07	3.00E-07	9.1898E-04
520325.09	4258213.08	48217.00653	0.22287	0.70815	0.22942	0.76702	9.17E-04	5.23E-07	1.45E-06	5.39E-07	1.51E-06	9.2054E-04
520295.69	4258222.99	48209.34018	0.23524	0.86639	0.24387	0.9469	9.16E-04	5.52E-07	1.78E-06	5.73E-07	1.86E-06	9.2114E-04
520095.76	4258983.47	48207.4656	13.14477	0.36665	11.61083	0.34096	9.16E-04	3.08E-05	7.52E-07	2.73E-05	6.71E-07	9.7588E-04
520532.42	4258809.04	48203.07305	0.2268	0.1474	0.2174	0.15385	9.16E-04	5.32E-07	3.02E-07	5.10E-07	3.03E-07	9.1790E-04
520521.4	4258297.26	48189.59233	0.17123	0.23901	0.17074	0.25108	9.16E-04	4.02E-07	4.90E-07	4.01E-07	4.94E-07	9.1778E-04
520537.07	4258344.03	48129.181	0.17114	0.218	0.17092	0.22959	9.15E-04	4.02E-07	4.47E-07	4.01E-07	4.52E-07	9.1655E-04
520383.85	4258203.27	48123.85701	0.20274	0.49326	0.2083	0.52768	9.15E-04	4.76E-07	1.01E-06	4.89E-07	1.04E-06	9.1776E-04
520197.42	4259043.1	48110.94338	1.95026	0.25912	1.79156	0.25798	9.15E-04	4.58E-06	5.31E-07	4.21E-06	5.08E-07	9.2433E-04
520030.99	4258896.78	48106.04437	3.39741	0.44111	4.38643	0.43048	9.14E-04	7.98E-06	9.05E-07	1.03E-05	8.47E-07	9.3443E-04
520236.87	4258252.81	48093.07945	0.26512	1.39599	0.2801	1.55277	9.14E-04	6.22E-07	2.86E-06	6.58E-07	3.06E-06	9.2136E-04
520128.88	4258352.47	48084.69957	0.36166	5.9459	0.37667	7.0405	9.14E-04	8.49E-07	1.22E-05	8.84E-07	1.39E-05	9.4179E-04
520393.64	4258203.3	48065.48918	0.19986	0.46604	0.20551	0.49793	9.14E-04	4.69E-07	9.56E-07	4.82E-07	9.80E-07	9.1653E-04
520451.37	4258217.22	48061.98886	0.18522	0.33746	0.18958	0.36004	9.14E-04	4.35E-07	6.92E-07	4.45E-07	7.09E-07	9.1585E-04
520539.41	4258792.35	48054.70003	0.21877	0.14863	0.20972	0.1549	9.13E-04	5.14E-07	3.05E-07	4.92E-07	3.05E-07	9.1505E-04
520442.55	4258213.45	48033.77982	0.1873	0.35409	0.19215	0.37771	9.13E-04	4.40E-07	7.26E-07	4.51E-07	7.44E-07	9.1540E-04
520015.45	4258863.38	48019.32612	2.34085	0.49556	2.84744	0.48459	9.13E-04	5.50E-06	1.02E-06	6.68E-06	9.54E-07	9.2691E-04
520496.62	4258880.8	48007.09571	0.27075	0.14436	0.25904	0.15169	9.13E-04	6.36E-07	2.96E-07	6.08E-07	2.99E-07	9.1437E-04
520541.44	4258460.8	47989.63247	0.18249	0.19959	0.17951	0.21061	9.12E-04	4.28E-07	4.09E-07	4.21E-07	4.15E-07	9.1387E-04
520374.06	4258203.24	47985.81695	0.20541	0.52281	0.21096	0.55988	9.12E-04	4.82E-07	1.07E-06	4.95E-07	1.10E-06	9.1528E-04
520004.51	4258821.54	47958.07566	1.81746	0.57709	2.16814	0.56058	9.12E-04	4.27E-06	1.18E-06	5.09E-06	1.10E-06	9.2324E-04
520316.23	4259042.9	47953.00638	0.73062	0.17102	0.69206	0.18301	9.11E-04	1.72E-06	3.51E-07	1.62E-06	3.60E-07	9.1555E-04
519998.44	4258710.45	47935.97572	1.27751	1.04715	1.53823	0.97458	9.11E-04	3.00E-06	2.15E-06	3.61E-06	1.92E-06	9.2185E-04
520486.98	4258242.48	47890.98654	0.17691	0.28068	0.17879	0.29851	9.10E-04	4.15E-07	5.76E-07	4.20E-07	5.88E-07	9.1232E-04
520542.9	4258784	47882.31686	0.21483	0.14931	0.20599	0.15547	9.10E-04	5.04E-07	3.06E-07	4.84E-07	3.06E-07	9.1176E-04
520557.18	4258725.96	47879.43494	0.19681	0.15476	0.18851	0.16151	9.10E-04	4.62E-07	3.17E-07	4.43E-07	3.18E-07	9.1164E-04
520460.18	4258221	47868.81736	0.1829	0.32224	0.1868	0.34364	9.10E-04	4.29E-07	6.61E-07	4.39E-07	6.76E-07	9.1210E-04
520403.43	4258203.33	47864.39259	0.19686	0.44082	0.20257	0.47045	9.10E-04	4.62E-07	9.04E-07	4.76E-07	9.26E-07	9.1258E-04
520364.28	4258203.21	47863.65092	0.20819	0.55436	0.21362	0.59498	9.10E-04	4.89E-07	1.14E-06	5.02E-07	1.17E-06	9.1310E-04
520446.17	4258951.64	47842.2585	0.34629	0.14614	0.32956	0.15367	9.09E-04	8.13E-07	3.00E-07	7.74E-07	3.02E-07	9.1158E-04
520207.44	4258272.72	47829.42337	0.28265	1.8711	0.29931	2.09894	9.09E-04	6.64E-07	3.84E-06	7.03E-07	4.13E-06	9.1849E-04
520000.68	4258691.74	47826.4751	1.24269	1.19268	1.50741	1.09953	9.09E-04	2.92E-06	2.45E-06	3.54E-06	2.16E-06	9.2016E-04
520167.7	4259033.15	47822.2248	2.80102	0.29107	2.53489	0.28061	9.09E-04	6.58E-06	5.97E-07	5.93E-06	5.52E-07	9.2267E-04
520052.54	4258935.65	47765.75931	6.4978	0.40043	10.91474	0.38494	9.08E-04	1.53E-05	8.21E-07	2.56E-05	7.58E-07	9.5040E-04
520395.37	4259002.77	47762.24981	0.45531	0.15005	0.43291	0.15932	9.08E-04	1.07E-06	3.08E-07	1.02E-06	3.14E-07	9.1058E-04
520158.85	4259029.5	47727.57021	3.1827	0.30072	2.84762	0.28726	9.07E-04	7.47E-06	6.17E-07	6.69E-06	5.65E-07	9.2255E-04
520246.94	4259053.02	47696.97813	1.2172	0.21206	1.14053	0.22077	9.07E-04	2.86E-06	4.35E-07	2.68E-06	4.35E-07	9.1304E-04
520345.92	4259032.85	47689.04333	0.60573	0.15996	0.5746	0.17129	9.06E-04	1.42E-06	3.28E-07	1.35E-06	3.37E-07	9.0992E-04
520266.75	4259052.98	47687.18866	1.03825	0.19766	0.97741	0.20817	9.06E-04	2.44E-06	4.05E-07	2.29E-06	4.10E-07	9.1199E-04
520114.18	4259001.06	47673.7991	7.64154	0.34781	6.5048	0.3229	9.06E-04	1.79E-05	7.13E-07	1.53E-05	6.36E-07	9.4075E-04
520256.85	4259053	47665.86643	1.12114	0.20452	1.05313	0.21428	9.06E-04	2.63E-06	4.19E-07	2

520246.69	4258242.84	47033.02363	0.25622	1.28084	0.27021	1.42013	8.94E-04	6.02E-07	2.63E-06	6.34E-07	2.80E-06	9.0067E-04
519995.71	4258727.97	47019.30662	1.28073	0.92882	1.53493	0.87093	8.94E-04	3.01E-06	1.90E-06	3.60E-06	1.71E-06	9.0398E-04
520057.87	4258947.84	46991.21862	7.93632	0.38763	16.08399	0.37096	8.93E-04	1.86E-05	7.95E-07	3.78E-05	7.30E-07	9.5114E-04
520463.87	4258934.38	46985.18364	0.3177	0.14407	0.3027	0.15141	8.93E-04	7.46E-07	2.95E-07	7.11E-07	2.98E-07	8.9515E-04
520032.39	4258907.35	46985.10108	3.5356	0.424	4.60874	0.41365	8.93E-04	8.30E-06	8.70E-07	1.08E-05	8.14E-07	9.1391E-04
520545.94	4258395	46980.01792	0.17331	0.20406	0.17146	0.2152	8.93E-04	4.07E-07	4.19E-07	4.03E-07	4.24E-07	8.9466E-04
520515.67	4258852.89	46978.33134	0.2475	0.14356	0.23719	0.15045	8.93E-04	5.81E-07	2.94E-07	5.57E-07	2.96E-07	8.9470E-04
520495.87	4258246.29	46967.39185	0.17398	0.26982	0.17533	0.2864	8.93E-04	4.08E-07	5.53E-07	4.12E-07	5.64E-07	8.9470E-04
520007.12	4258655.32	46921.22565	1.18387	1.58573	1.46321	1.42981	8.92E-04	2.78E-06	3.25E-06	3.44E-06	2.81E-06	9.0417E-04
520477.81	4258228.54	46913.04199	0.17774	0.2954	0.18075	0.31431	8.92E-04	4.17E-07	6.06E-07	4.24E-07	6.19E-07	8.9388E-04
520132.29	4259018.53	46905.24451	5.05659	0.32557	4.39435	0.30425	8.92E-04	1.19E-05	6.68E-07	1.03E-05	5.99E-07	9.1504E-04
520560.71	4258717.52	46900.47111	0.19334	0.15466	0.18528	0.16148	8.91E-04	4.54E-07	3.17E-07	4.35E-07	3.18E-07	8.9302E-04
520553.39	4258758.96	46882.29875	0.2035	0.1505	0.19503	0.15654	8.91E-04	4.78E-07	3.09E-07	4.58E-07	3.08E-07	8.9270E-04
520296.45	4259052.93	46829.93844	0.83473	0.17856	0.78872	0.19016	8.90E-04	1.96E-06	3.66E-07	1.85E-06	3.74E-07	8.9470E-04
520119.06	4258362.44	46794.34148	0.37086	7.49483	0.38709	8.9918	8.89E-04	8.71E-07	1.54E-05	9.09E-07	1.77E-05	9.2433E-04
520432.8	4258203.42	46730.99499	0.18767	0.37518	0.19297	0.39978	8.88E-04	4.41E-07	7.69E-07	4.53E-07	7.87E-07	8.9072E-04
520355.82	4259032.84	46718.38461	0.57091	0.15577	0.54159	0.16664	8.88E-04	1.34E-06	3.19E-07	1.27E-06	3.28E-07	8.9129E-04
520305.51	4258213.02	46704.60593	0.22725	0.81075	0.23524	0.88338	8.88E-04	5.34E-07	1.66E-06	5.52E-07	1.74E-06	8.9226E-04
520207.34	4259053.08	46691.53866	1.75726	0.24489	1.62363	0.2459	8.88E-04	4.13E-06	5.02E-07	3.81E-06	4.84E-07	8.9845E-04
520177.62	4259043.13	46616.80627	2.45314	0.27555	2.22903	0.26823	8.86E-04	5.76E-06	5.65E-07	5.23E-06	5.28E-07	8.9819E-04
520336.04	4259042.87	46529.95037	0.64379	0.16116	0.61003	0.17268	8.84E-04	1.51E-06	3.31E-07	1.43E-06	3.40E-07	8.8806E-04
520454.87	4258948.11	46513.36926	0.33217	0.14391	0.31627	0.15124	8.84E-04	7.80E-07	2.95E-07	7.43E-07	2.98E-07	8.8625E-04
520334.91	4258203.12	46497.69188	0.21535	0.66708	0.22154	0.72034	8.84E-04	5.06E-07	1.37E-06	5.20E-07	1.42E-06	8.8765E-04
520306.35	4259052.92	46489.15909	0.78047	0.17307	0.73813	0.18473	8.84E-04	1.83E-06	3.55E-07	1.73E-06	3.64E-07	8.8796E-04
520375.61	4259022.8	46484.56089	0.50886	0.15129	0.48344	0.16127	8.84E-04	1.19E-06	3.10E-07	1.13E-06	3.17E-07	8.8654E-04
520495.83	4258891.13	46471.2192	0.27256	0.14241	0.2608	0.14961	8.83E-04	6.40E-07	2.92E-07	6.12E-07	2.95E-07	8.8517E-04
520430.28	4258978.31	46458.89721	0.37811	0.1451	0.36	0.15291	8.83E-04	8.88E-07	2.98E-07	8.45E-07	3.01E-07	8.8543E-04
520049.52	4258531.01	46437.26878	0.91467	7.68277	1.09101	5.4396	8.83E-04	2.15E-06	1.58E-05	2.56E-06	1.07E-05	9.1386E-04
520018.5	4258881.63	46432.9775	2.53585	0.45507	3.10831	0.44579	8.83E-04	5.95E-06	9.33E-07	7.30E-06	8.78E-07	8.9767E-04
520096.34	4258993.7	46419.55057	12.92071	0.35371	11.36419	0.32915	8.82E-04	3.03E-05	7.25E-07	2.67E-05	6.48E-07	9.4074E-04
520123.44	4259014.88	46416.66381	6.11391	0.3316	5.25431	0.3086	8.82E-04	1.44E-05	6.80E-07	1.23E-05	6.07E-07	9.1027E-04
520168.19	4258302.6	46400.22745	0.30687	3.02833	0.32086	3.45857	8.82E-04	7.20E-07	6.21E-06	7.53E-07	6.81E-06	8.9648E-04
520412.7	4258995.59	46353.44842	0.41495	0.14598	0.39464	0.15451	8.81E-04	9.74E-07	2.99E-07	9.26E-07	3.04E-07	8.8360E-04
520486.62	4258232.31	46330.01876	0.17514	0.28292	0.17753	0.30083	8.81E-04	4.11E-07	5.80E-07	4.17E-07	5.92E-07	8.8265E-04
520158.37	4258132.56	46301.40595	0.31576	3.49818	0.32913	4.01805	8.80E-04	7.41E-07	7.17E-06	7.73E-07	7.91E-06	8.9670E-04
520227.08	4258252.78	46296.22679	0.26475	1.53659	0.28024	1.71283	8.80E-04	6.22E-07	3.15E-06	6.58E-07	3.37E-06	8.8781E-04
520530.18	4258301.02	46259.81665	0.16808	0.23018	0.16759	0.24153	8.79E-04	3.95E-07	4.72E-07	3.93E-07	4.75E-07	8.8105E-04
520178.01	4258292.63	46258.54603	0.29787	2.6535	0.31258	3.01216	8.79E-04	6.99E-07	5.44E-06	7.34E-07	5.93E-06	8.9210E-04
519997.34	4258804.24	46248.95423	1.55594	0.61529	1.84158	0.59452	8.79E-04	3.65E-06	1.26E-06	4.32E-06	1.17E-06	8.8952E-04
520451.33	4258207.19	46246.10443	0.18268	0.33956	0.18724	0.36193	8.79E-04	4.29E-07	6.96E-07	4.40E-07	7.12E-07	8.8133E-04
520043.69	4258932	46232.53328	4.86554	0.39648	6.98828	0.38408	8.79E-04	1.14E-05	8.13E-07	1.64E-05	7.56E-07	9.0820E-04
520197.44	4259053.1	46172.3601	1.95188	0.25321	1.7946	0.25149	8.78E-04	4.58E-06	5.19E-07	4.21E-06	4.95E-07	8.8746E-04
520505.07	4258877.3	46171.85931	0.26091	0.14205	0.24988	0.14912	8.78E-04	6.13E-07	2.91E-07	5.87E-07	2.94E-07	8.7943E-04
520442.58	4258203.45	46139.91286	0.18451	0.35632	0.18952	0.37956	8.77E-04	4.33E-07	7.31E-07	4.45E-07	7.47E-07	8.7939E-04
520460.07	4258210.94	46113.36375	0.18056	0.32425	0.18473	0.34552	8.77E-04	4.24E-07	6.65E-07	4.34E-07	6.80E-07	8.7873E-04
520525.64	4258838.76	46109.2233	0.23632	0.14307	0.22658	0.14966	8.76E-04	5.55E-07	2.93E-07	5.32E-07	2.95E-07	8.7813E-04
520446.03	4258961.78	46091.00252	0.34817	0.14374	0.3314	0.15113	8.76E-04	8.17E-07	2.95E-07	7.78E-07	2.97E-07	8.7829E-04
520276.12	4258222.93	46071.15663	0.23857	1.00696	0.24946	1.10697	8.76E-04	5.60E-07	2.07E-06	5.86E-07	2.18E-06	8.8112E-04
520099.39	4258392.38	46043.67426	0.41128	14.04458	0.43642	15.98746	8.75E-04	9.66E-07	2.88E-05	1.02E-06	3.15E-05	9.3747E-04
520520.02	4258276.65	46033.74578	0.16876	0.24204	0.16837	0.25476	8.75E-04	3.96E-07	4.96E-07	3.95E-07	5.01E-07	8.7681E-04
520544.84	4258469.73	46028.37022	0.18136	0.19584	0.17804	0.20671	8.75E-04	4.26E-07	4.02E-07	4.18E-07	4.07E-07	8.7657E-04
520383.88	4258193.27	46014.89522	0.19876	0.49617	0.20405	0.53031	8.75E-04	4.67E-07	1.02E-06	4.79E-07	1.04E-06	8.7767E-04
520021.89	4258893.02	46001.96692	2.74625	0.43757	3.40713	0.42861	8.74E-04	6.45E-06	8.97E-07	8.00E-06	8.44E-07	9.9060E-04
520187.83	4258282.66	45999.84514	0.28912	2.3468	0.30424	2.65257	8.74E-04	6.79E-07	4.81E-06	7.14E-07	5.22E-06	8.8580E-04
520256.51	4258232.87	45998.63801	2.24783	1.17948	2.26076	1.30449	8.74E-04	5.82E-07	2.42E-06	6.12E-07	2.57E-06	8.8053E-04
520393.67	4258193.3	45980.03973	0.19606	0.46893	0.20145	0.50042	8.74E-04	4.60E-07	9.62E-07	4.73E-07	9.85E-07	8.7688E-04
520148.55	4258322.53	45949.02218	0.32455	4.10004	0.33752	4.73413	8.73E-04	7.62E-07	8.41E-06	7.92E-07	9.32E-06	8.9269E-04
520316.25	4259052.9	45946.99358	0.7307	0.16783	0.69155	0.17946	8.73E-04	1.72E-06	3.44E-07	1.62E-06	3.53E-07	8.7741E-04
520325.12	4258203.08	45942.89557	0.21767	0.71144	0.22434	0.77072	8.73E-04	5.11E-07	1.46E-06	5.27E-07	1.52E-06	8.7731E-04
520504.77	4258250.09	45891.84475	0.17103	0.25937	0.17184	0.27479	8.72E-04	4.02E-07	5.32E-07	4.03E-07	5.41E-07	8.7420E-04
520564.24	4259009.09	45875.82464	0.19003	0.15471	0.18225	0.16152	8.72E-04	4.46E-07	3.17E-07	4.28E-07	3.18E-07	8.7353E-04
520374.09	4258193.24	45866.47611	0.20127	0.52572	0.20654	0.56264	8.72E-04	4.73E-07	1.08E-06	4.85E-07	1.11E-06	8.7498E-04
519993.37	4258770.57	45865.02237	1.36513	0.7228	1.61716	0.69015	8.72E-04	3.20E-06	1.48E-06	3.80E-06	1.36E-06	8.8165E-04
520114.59	4259011.23	45852.35496	7.57345	0.33622	6.4512	0.31228	8.72E-04	1.78E-05	6.90E-07	1.51E-05	6.15E-07	9.0580E-04
520481.69	4258917	45848.83848	0.29214	0.14193	0.27908	0.1491	8.72E-04	6.86E-07	2.91E-07	6.55E-07	2.94E-07	8.7343E-04
520403.46	4258193.33	45838.79544	0.19328	0.44359	0.19877	0.4728	8.71E-04	4.54E-07	9.10E-07	4.67E-07	9.31E-07	8.7407E-04
520468.81	4258214.68	45829.01081	0.17829	0.31005	0.18203	0.33023	8.71E-04	4.19E-07	6.36E-07	4.27E-07	6.50E-07	8.7326E-04
520514.31	4258264.19	45815.97619	0.16931	0.24849	0.1693	0.26231	8.71E-04	3.97E-07	5.10E-07	3.97E-07	5.16E-07	8.7270E-04
520295.72	4258212.99	45797.56087	0.2291	0.87051	0.23807	0.95125	8.71E-04	5.38E-07	1.79E-06	5.59E-07	1.87E-06	8.7528E-04
520033.66	4258917.87	45793.77192	3.66725	0.40789	4.82587	0.39779	8.70E-04	8.61E-06	8.37E-07	1.13E-05	7.83E-07	9.9202E-04
520395.39	4259012.77	45779.07468	0.45581	0.14707	0.43339	0.15625	8.70E-04	1.07E-06	3.02E-07	1.02E-06	3.08E-07	8.7287E-04
520167.72	4259043.15	45766.30067	2.78795	0.28291	2.51791	0.27243	8.70E-04	6.55E-06	5.80E-07	5.91E-06	5.36E-07	8.8351E-04
520560.37	4258742.27	45757.36632	0.1964	0.1507	0.18818	0.15691	8.70E-04	4.61E-07	3.09E-07	4.42E-07	3.09E-07	8.7129E-04
520491.16	4258903.07	45744.36247	0.27911	0.14155	0.26696	0.14869	8.70E-04	6.55E-07	2.90E-07	6.27E-07	2.93E-07	8.7138E-04
520548.62	4258427.92	45710.73578	0.17547	0.19859	0.17301	0.2091	8.69E-04	4.12E-07	4.07E-07	4.06E-07	4.12E-07	8.7052E-04
520364.31	4258193.21	45708.89872	0.20184	0.55731	0.20908	0.59786	8.69E-04	4.79E-07	1.14E-06	4.91E-07	1.18E-06	8.7213E-04
519992.8	4258745.07	45699.97222	1.27081	0.82979	1.51444	0.78351	8.69E-04	2.98E-06	1.70E-06	3.56E-06	1.54E-06	8.7846E-04
520345.94	4259042.85	45697.00917	0.60588	0.15677	0.57421	0.16792	8.69E-04	1.42E-06	3.22E-07	1.35E-06	3.31E-07	8.7204E-04
520549.18	4258403.52	45696.69264	0.17265	0.20086	0.17057	0.21161	8.69E-04	4.05E-07	4.12E-07	4.00E-07	4.17E-07	8.7025E-04
520158.62	4259039.39	45695.80986	3.18126	0.2923	2.85178	0.27891	8.69E-04	7.47E-06	5.99E-07	6.70E-06	5.49E-07	8.8391E-04
520514.54	4258863.37	45678.13895	0.24964	0.1416	0.23924	0.14848	8.68E-04	5.86E-07	2.90E-07	5.62E-07	2.92E-07	8.6999E-04
520365.72	4259032.82	45674.07409	0.53879	0.15194	0.5114	0.16232	8.68E-04	1.26E-06	3.12E-07	1.20E-06	3.20E-07	8.7128E-04
520019.85	4258608.71	45670.31437	1.11387	2.47692	1.41583	2.13126	8.68E-04	2.62E-06	5.08E-06	3.32E-06	4.20E-06	8.8332E-04
520472.44	4258930.83	45664.24811	0.30555	0.14188	0.29138	0.14907	8.68E-04	7.17E-07	2.91E-07	6.84E-07	2.93E-07	8.6998E-04
520413.25	4258193.36	45629.97083	0.19049	0.41995	0.19598	0.44729	8.67E-04	4.47E-07	8.61E-07	4.60E-07	8.80E-07	8.6999E-04
520149.51	4259035.63	45561.67673	0.68193	0.30123	1.27054	0.285	8.66E-04	8.64E-06	6.18E-07	7.68E-06	5.61E-07	8.8355E-04
520048.72	4258944.07	45560.65093	5.72072	0.38382	8.82508	0.37039	8.66E-04	1.34E-05	7.87E-07	2.07E-05	7.29E-07	9.0169E-04
520495.44	4258236.09	45540.7672	0.1724	0.27141	0.17422	0.28824	8.66E-04	4.05E-07	5.57E-07	4.09E-07	5.67E-07	8.6759E-04
520197.65	4258272.69	45539.25315	0.28033	2.09386	0.29581	2.35472	8.66E-04	6.58E-07	4.29E-06	6.94E-07	4.64E-06	8.7590E-04
520058.88	4258958.25	45528.20491	8.27544	0.37379	17.55504	0.35757	8.65E-04	1.94E-05	7.67E-07	4.12E-05	7.04E-07	9.2752E-04
520421.37	4258992.01	45522.12071	0.39654	0.1442	0.37745	0.15234	8.65E-04	9.31E-07	2.96E-07	8.86E-07	3.00E-07	8.6771E-04
520546.89	4258358.24	45478.4513	0.16852	0.20764	0.1678	0.21894	8.64E-04	3.96E-07	4.26E-07	3.94E-07	4.31E-07	8.6611E-04
520187.54	4259053.12	45448.93292	2.18082	0.26107	1.99417	0.25646	8.64E-04	5.12E-06	4.68E-06	5.35E-07	5.05E-07	8.7474E-04
520236.9	4258242.81	45440.3477	0.25628	1.40316	0.27098	1.55962	8.64E-04	6.02E-07	2.88E-06	6.36E-07	3.07E-06	8.7092E-04
520006.5	4258856.69	45411.40276	1.95821	0.49253	2.33648	0.48151	8.63E-04	4.60E-06	1.01E-06	5.49E-06	9.48E-07	8.7523E-04
520548.28	4258368.85	45400.27747	0.16917	0.20517	0.16807	0.21644	8.63E-04	3.97E-07	4.21E-07	3.95E-07	4.26E-07	8.6462E-04
520439.01	4258974.7	45392.93424	0.36184	0.14299	0.34451	0.15049	8.63E-04	8.49E-07	2.93E-07	8.09E-07	2.96E-07	8.6509E-04
520140.41	4259031.87	45381.68064	0.32278	0.30943	0.80084	0.2906	8.63E-04	1.01E-05	6.35E-07	8.92E-06	5.72E-07	8.8290E-04
520354.52	4258193.18	45368.34963	0.20619	0.59177	0.2116	0.63616	8.62E-04	4.84E-07	1.21E-06	4.97E-07	1.25E-06	8.6582E-04
520545.69	4258347.72	45361.24917	0.16776	0.21004	0.16732	0.22125	8.62E-04	3.94E-07	4.31E-07	3.93E-07	4.36E-07	8.6389E-04
520477.56	4258218.42	45354.10667	0.17583	0.29705	0.17916	0.31604	8.62E-04	4.13E-07	6.09E-07	4.21E-07	6.22E-07	8.6416E-04
520528.37	4258290.66	45335.04669	0.16691	0.232	0.16636	0.24348	8.62E-04	3.92E-07	4.76E-07	3.91E-07	4.79E-07	8.6347E-04
520423.04	4258193.39	45311.48642	0.18763	0.39797	0.19305	0.42365	8.61E-04	4.40E-07	8.16E-07	4.53E-07	8.34E-07	8.6383E-04
520326.15	4259052.89	45291.08203	0.68524	0.16272	0.64852	0.17422	8.61E-04	1.61E-06	3.34E-07	1.52E-06	3.43E-07	8.6471E-04
520000.87	4258836.88	45281.99286	1.73243	0.53087	2.04649	0.51718	8.61E-04	4.07E-06	1.09E-06	4.80E-06	1.02E-06	8.7171E-04
520463.38	4258944.59	45269.0306	0.31931	0.14182	0.30423	0.14897	8.60E-04	7.50E-07	2.91E-07	7.14E-07	2.93E-07	8.6253E-04
520315.33	4258203.05	45245.27783	0.21974	0.76033	0.22713	0.8261	8.60E-04	5.16E-07	1.56E-06	5.33E-07	1.63E-06	8.6427E-04
520385.51	4259022.79	45226.50174	0.48152	0.14764	0.45758	0.15716	8.60E-04	1.13E-06	3.03E-07	1.07E-06	3.09E-07	8.6249E-04
520105.74	4259007.57	45214.51213	9.63853	0.33933	8.21902	0.31528	8.59E-04	2.26E-05	6.96E-07	1.93E-05	6.21E-07	9.0269E-04
520029.73	4258579.58	45184.57512	1.06684	3.50678	1.37951	2.85376	8.59E-04	2.50E-06	7.19E-06	3.24E-06	5.62E-06	8.7743E-04
519993.75	4258795.6	45176.53091	1.44047	0.63512	1.69834	0.61177	8.59E-04	3.38E-06	1.30E-06	3.99E-06	1.20E-06	8.6860E-04
520404	4259009.21	45160.43639	0.43514	0.14357	0.4138	0.15391	8.58E-04	1.02E-06	2.98E-07	9.71E-07	3.03E-07	8.6101E-04
520023.37	4258903.63	45059.07353	2.85401	0.4206	3.56423	0.41203	8.56E-04	6.70E-06	8.63E-07	8.37E-06	8.11E-07	8.7323E-04
520563.87	4258733.92	45041.99074	0.19299	0.15063	0.18493	0.15697	8.56E-04	4.53E-07	3.09E-07	4.34E-07	3.09E-07	8.5767E-04
520207.47	4258262.72	45033.68652	0.27188	1.88042	0.28734	2.10766	8.56E-04	6.38E-07	3.86E-06	6.75E-07	4.15E-06	8.6533E-04
520544.65	4258337.25	45020.58419	0.16681	0.21269	0.16662	0.22365	8.56E-04	3.92E-07	4.36E-07	3.91E-07	4.40E-07	8.5742E-04
520109.24	4258372.41	45004.95271	0.37893	0.90479	0.3978	11.75688	8.55E-04	8.90E-07	2.03E-05	9.34E-07	2.31E-05	9.0074E-04
520131.3	4258203.12	44985.50449	5.15428	0.31622	4.48208	0.29531	8.55E-04	1.21E-05	6.49E-07	1.05E-05	5.81E-07	8.7895E-04
520524.28	4258849.33	44981.84535	0.23865	0.14123	0.22887	0.14782	8.55E-04	5.60E-07	2.90E-07	5.37E-07	2.91E-07	8.5670E-04
520542.9	4258807.93	44962.77372	0.21759	0.14362	0.20868	0.14973	8.55E-04	5.11E-07	2.95E-07	4.90E-07	2.95E-07	8.5625E-04
520432.83	4258193.42	44904.78968	0.18473	0.37747	0.19	0.40172	8.54E-04	4.34E-07	7.74E-07	4.46E-07	7.91E-07	8.5600E-04
520539.96	4258315.22	44883.51872	0.16597	0.2195	0.16564	0.23033	8.53E-04	3.90E-07	4.50E-07	3.89E-07	4.53E-07	8.5484E-04
520008.2	4258867.38	44879.44107	2.04235	0.47184	2.44132	0.46199	8.53E-04	4.79E-06	9.68E-07	5.73E-06	9.09E-07	8.6548E-04
520266.33	4258222.9	44875.75463	0.23967	1.09058	0.2517	1.20223	8.53E-04	5.63E-07	2.24E-06	5.91E-07	2.37E-06	8.5876E-04
520344.73	4258193.15	44861.69872	0.20831	0.62937	0.21413	0.67781	8.53E-04	4.89E-07	1.29E-06	5.03E-07	1.33E-06	8.5636E-04
520007.12	4258646.05	44860.43692	1.11586	1.67301	1.37777	1.50099	8.53E-04	2.62E-06	3.43E-06	3.23E-06	2.95E-06	8.6496E-04
520454.48	4258958.28	44854.61793	0.33401	0.14163	0.31808	0.14881	8.53E-04	7.84E-07	2.90E-07	7.47E-07	2.93E-07	8.5472E-04
520486.3	4258222.16	44823.73124	0.17335	0.2846	0.17616	0.3026	8.52E-04	4.07E-07	5.84E-07	4.14E-07	5.96E-07	8.5402E-04
520285.94	4258212.96	44789.15551	0.23062	0.93715	0.24072	1.02678	8.51E-04	5.41E-07	1.92E-06	5.65E-07	2.02E-06	8.5641E-04
520355.84	4259042.84	44786.3403	0.57106	0.15272	0.54142	0.16344	8.51E-04	1.34E-06	3.13E-07	1.27E-06	3.22E-07	8.5455E-04
520504.21	4258887.66	44753.37941	0.26275	0.14006	0.25159	0.14704	8.51E-04	6.17E-07	2.87E-07	5.91E-07	2.89E-07	8.5247E-04
520549.83	4258791.4	44733.7599	0.21007	0.1449	0.20152	0.15081	8.50E-04	4.93E-07	2.97E-07	4.73E-07	2.97E-07	8.5187E-04
520177.64	4259053.13	44725.51135	2.45632	0.26864	2.23365	0.26103	8.50E-04	5.77E-06	5.51E-07	5.24E-06	5.14E-07	8.6223E-04
520567.77	4258700.65	44719.77513	0.18676	0.15475	0.17924	0.16145	8.50E-04	4.38E-07	3.17E-07	4.18E-07	3.18E-07	8.5154E-04
519994.67	4258701.35	44712.17524	1.14729	1.0749	1.36884	0.99778	8.50E-04	2.69E-06	2.20E-06	3.21E-06	1.96E-06	8.5997E-04
520513.66	4258253.9	44677.15029	0.16806	0.24971	0.1684	0.26397	8.49E-04	3.95E-07	5.12E-07	3.95E-07	5.20E-07	8.5105E-04
520128.91	4258342.47	44675.78317	0.34212	5.96518	0.35503	7.06255	8.49E-04	8.03E-07	1.22E-05	8.33E-07	1.39E-05	8.7698E-04
520034.84	4258928.34	44637.37277	3.79666	0.39291	5.03889	0.38301	8.48E-04	8.91E-06	8.06E-07	1.18E-05	7.54E-07	8.7078E-04
519997.12	4258827.83	44617.50799	1.60372	0.54803	1.88516	0.53273	8.48E-04	3.77E-06	1.12E-06	4.43E-06	1.05E-06	8.5846E-04
520430.03	4258988.42	44615.53326	0.3793	0.14235	0.36221	0.15012	8.48E-04	8.90E-07	2.92E-07	8.48E-07	2.96E-07	8.5039E-04
520504.25	4258239.86	44596.12301	0.1696	0.26082	0.17088	0.27655	8.48E-04	3.98E-07	5.35E-07	4.01E-07	5.44E-07	8.4957E-04
520096.89	4259003.92	44591.30776	12.66601	0.34126	11.11196	0.31783	8.48E-04	2.97E-05	7.00E-07	2.61E-05	6.26E-07	9.0475E-04
520375.62	4259032.8	44573.51379	0.50916	0.1483	0.48363	0.15818	8.47E-04	1.20E-06	3.04E-07	1.14E-06	3.11E-07	8.5021E-04
520122.19	4259024.36	44549.55333	6.29143	0.32188	5.40753	0.29948	8.47E-04	1.48E-05	6.60E-07	1.27E-05	5.90E-07	8.7552E-04
520246.72	4258232.84	44540.07371	0.24813	1.28698	0.26197	1.42652	8.47E-04	5.83E-07	2.64E-06	6.15E-07	2.81E-06	8.5327E-04
520336.05	4259052.87	44539.78821	0.64364	0.15801	0.60925	0.16928	8.47E-04	1.51E-06	3.24E-07	1.43E-06	3.33E-07	8.5022E-04
520451.29	4258197.17	44521.57769	0.18012	0.34165	0.18481	0.36376	8.46E-04	4.23E-07	7.01E-07	4.34E-07	7.16E-07	8.4859E-04
520459.97	4258200.88	44475.11007	0.17823	0.32601	0.18256	0.34716	8.45E-04	4.18E-07	6.69E-07	4.

520345.95	4259052.85	43829.11067	0.60591	0.15375	0.57379	0.16471	8.33E-04	1.42E-06	3.15E-07	1.35E-06	3.24E-07	8.3652E-04
520523.06	4258859.84	43824.55305	0.2408	0.13931	0.23094	0.1459	8.33E-04	5.65E-07	2.86E-07	5.42E-07	2.87E-07	8.3471E-04
520365.74	4259042.82	43811.23539	0.53892	0.149	0.51142	0.15925	8.33E-04	1.27E-06	3.06E-07	1.20E-06	3.13E-07	8.3588E-04
520039.6	4258504.44	43811.13413	0.96424	5.12003	1.19247	3.93196	8.33E-04	2.26E-06	1.05E-05	2.80E-06	7.74E-06	8.5607E-04
519993.37	4258818.79	43805.35337	1.48408	0.56592	1.73957	0.54863	8.33E-04	3.48E-06	1.16E-06	4.08E-06	1.08E-06	8.4247E-04
520325.15	4258193.08	43769.52347	0.21253	0.71466	0.21945	0.77402	8.32E-04	4.99E-07	1.47E-06	5.15E-07	1.52E-06	8.3598E-04
520413.28	4258183.36	43764.81041	0.18714	0.42247	0.19241	0.44939	8.32E-04	4.39E-07	8.66E-07	4.52E-07	8.85E-07	8.3453E-04
520149.67	4259045.69	43760.08544	3.67367	0.2926	3.2681	0.27664	8.32E-04	8.62E-06	6.00E-07	7.67E-06	5.45E-07	8.4924E-04
520227.11	4258242.78	43729.61364	0.25556	1.54428	0.2704	1.7198	8.31E-04	6.00E-07	3.17E-06	6.35E-07	3.39E-06	8.3901E-04
520553.38	4258888.69	43717.67121	0.16885	0.19823	0.16697	0.20901	8.31E-04	3.96E-07	4.07E-07	3.92E-07	4.11E-07	8.3266E-04
520276.15	4258212.93	43713.40859	0.23183	1.01184	0.24305	1.11154	8.31E-04	5.44E-07	2.08E-06	5.71E-07	2.19E-06	8.3629E-04
520421.21	4259002.08	43701.05373	0.3975	0.14136	0.37836	0.14948	8.31E-04	9.33E-07	2.90E-07	8.88E-07	2.94E-07	8.3308E-04
520462.93	4258954.79	43648.58865	0.32087	0.13958	0.30576	0.14657	8.30E-04	7.53E-07	2.86E-07	7.18E-07	2.89E-07	8.3173E-04
520140.63	4259041.96	43639.77713	4.30205	0.30032	3.79211	0.28193	8.30E-04	1.01E-05	6.16E-07	8.90E-06	5.55E-07	8.4969E-04
520438.7	4258984.83	43633.34527	0.36311	0.1404	0.34583	0.14784	8.29E-04	8.52E-07	2.88E-07	8.12E-07	2.91E-07	8.3163E-04
520364.34	4258183.21	43617.12571	0.19948	0.56021	0.20468	0.60043	8.29E-04	4.68E-07	1.15E-06	4.81E-07	1.18E-06	8.3236E-04
520256.54	4258222.87	43583.90698	0.24027	1.18531	0.25327	1.30989	8.28E-04	5.64E-07	2.43E-06	5.95E-07	2.58E-06	8.3462E-04
520295.75	4258202.99	43559.71203	0.22317	0.8744	0.23249	0.95532	8.28E-04	5.24E-07	1.79E-06	5.46E-07	1.88E-06	8.3273E-04
519989.13	4258736.23	43544.73491	1.16242	0.85495	1.37544	0.80413	8.28E-04	2.73E-06	1.75E-06	3.23E-06	1.58E-06	8.3700E-04
520513.07	4258243.63	43517.16072	0.16675	0.25098	0.16752	0.26562	8.27E-04	3.91E-07	5.15E-07	3.93E-07	5.23E-07	8.2900E-04
520423.07	4258183.39	43504.38046	0.18447	0.40037	0.18974	0.42563	8.27E-04	4.33E-07	8.21E-07	4.45E-07	8.38E-07	8.2948E-04
520563.68	4258758.32	43490.76792	0.19584	0.14633	0.18772	0.15212	8.27E-04	4.60E-07	3.00E-07	4.41E-07	2.99E-07	8.2818E-04
520571.31	4258692.22	43481.18206	0.1836	0.15467	0.17627	0.16124	8.26E-04	4.31E-07	3.17E-07	4.14E-07	3.17E-07	8.2798E-04
520538.06	4258294.38	43469.89892	0.16384	0.22374	0.16333	0.23448	8.26E-04	3.85E-07	4.59E-07	3.83E-07	4.62E-07	8.2797E-04
520119.09	4258352.44	43452.12641	0.35001	7.52194	0.36431	8.97237	8.26E-04	8.22E-07	1.54E-05	8.55E-07	1.77E-05	8.6071E-04
520103.98	4259016.84	43449.68644	10.19813	0.32883	8.70507	0.30578	8.26E-04	2.39E-05	6.74E-07	2.04E-05	6.02E-07	8.7155E-04
520168.22	4258292.6	43443.60929	0.29304	3.04177	0.30519	3.46802	8.26E-04	6.88E-07	6.24E-06	7.16E-07	6.83E-06	8.4025E-04
520178.04	4258282.63	43409.91815	0.28509	2.66505	0.29794	3.02255	8.25E-04	6.69E-07	5.47E-06	6.99E-07	5.95E-06	8.3793E-04
520385.52	4259032.79	43389.79048	0.48183	0.14473	0.4578	0.15416	8.25E-04	1.13E-06	2.97E-07	1.07E-06	3.03E-07	8.2757E-04
520486.01	4258212.02	43365.98544	0.17151	0.2863	0.17468	0.30431	8.24E-04	4.03E-07	5.87E-07	4.10E-07	5.99E-07	8.2631E-04
520403.96	4259019.23	43344.44813	0.43569	0.14225	0.41439	0.151	8.24E-04	1.02E-06	2.92E-07	9.73E-07	2.97E-07	8.2648E-04
520522.55	4258257.7	43325.5833	0.16507	0.2406	0.16503	0.25375	8.24E-04	3.88E-07	4.93E-07	3.87E-07	5.00E-07	8.2531E-04
520158.4	4258302.56	43304.74833	0.30099	3.51223	0.31246	4.0294	8.23E-04	7.07E-07	7.20E-06	7.34E-07	7.93E-06	8.3972E-04
520503.79	4258229.65	43304.1313	0.16811	0.26235	0.16986	0.27829	8.23E-04	3.95E-07	5.38E-07	3.99E-07	5.48E-07	8.2501E-04
520551.62	4258461.66	43289.0779	0.17697	0.19239	0.17382	0.20277	8.23E-04	4.15E-07	3.95E-07	4.08E-07	3.99E-07	8.2446E-04
520354.55	4258183.18	43276.10992	0.20167	0.59467	0.20714	0.63881	8.23E-04	4.73E-07	1.22E-06	4.86E-07	1.26E-06	8.2604E-04
520131.6	4259038.23	43256.93824	5.11861	0.3065	4.46134	0.28625	8.22E-04	1.20E-05	6.29E-07	1.05E-05	5.63E-07	8.4592E-04
520187.86	4258272.66	43191.60023	0.2771	2.35838	0.29065	2.66042	8.21E-04	6.51E-07	4.84E-06	6.82E-07	5.24E-06	8.3240E-04
520432.86	4258183.42	43144.68326	0.18174	0.37977	0.18694	0.40356	8.20E-04	4.27E-07	7.79E-07	4.39E-07	7.94E-07	8.2254E-04
520014.36	4258899.91	43114.96265	2.35795	0.41779	2.8591	0.4102	8.20E-04	5.54E-06	8.57E-07	6.71E-06	8.07E-07	8.3345E-04
520512.6	4258884.19	43102.44892	0.25341	0.13784	0.24291	0.14459	8.19E-04	5.95E-07	2.83E-07	5.70E-07	2.85E-07	8.2103E-04
520315.36	4258193.05	43070.07669	0.21436	0.76376	0.2221	0.82946	8.19E-04	5.03E-07	1.57E-06	5.21E-07	1.63E-06	8.2291E-04
520532.88	4258845.77	43068.62452	0.23023	0.13902	0.22099	0.14531	8.19E-04	5.41E-07	2.85E-07	5.19E-07	2.86E-07	8.2029E-04
520025.98	4258924.69	43026.58045	3.05766	0.38975	3.86782	0.38172	8.18E-04	7.18E-06	7.99E-07	9.08E-06	7.51E-07	8.3567E-04
520236.93	4258232.81	43020.85899	0.24786	1.40969	0.26208	1.56622	8.18E-04	5.82E-07	2.89E-06	6.15E-07	3.08E-06	8.2492E-04
520456.47	4258967.47	42981.15873	0.3319	0.1388	0.31622	0.14579	8.17E-04	7.79E-07	2.85E-07	7.42E-07	2.87E-07	8.1909E-04
520355.85	4259052.84	42973.71176	0.57108	0.14983	0.54124	0.1604	8.17E-04	1.34E-06	3.07E-07	1.27E-06	3.16E-07	8.2009E-04
520148.58	4258312.53	42939.95114	0.30883	4.11485	0.31088	4.74919	8.16E-04	7.25E-07	8.44E-06	7.51E-07	9.35E-06	8.3547E-04
520555.67	4258420.56	42930.4835	0.17117	0.19441	0.16873	0.20451	8.16E-04	4.02E-07	3.99E-07	3.96E-07	4.03E-07	8.1763E-04
520050.82	4258964.92	42918.25962	6.17462	0.35739	9.85291	0.34453	8.16E-04	1.45E-05	7.33E-07	2.31E-05	6.78E-07	8.5484E-04
520451.62	4258187.29	42887.1976	0.17746	0.34303	0.18221	0.3648	8.15E-04	4.17E-07	7.04E-07	4.28E-07	7.18E-07	8.1747E-04
520040.75	4258950.77	42884.96843	4.4938	0.36681	6.24023	0.35632	8.15E-04	1.05E-05	7.52E-07	1.47E-05	7.01E-07	8.4182E-04
520460.6	4258191.14	42880.82189	0.17568	0.32669	0.18011	0.34756	8.15E-04	4.12E-07	6.70E-07	4.23E-07	6.84E-07	8.1728E-04
520197.68	4258262.69	42878.35119	0.26929	2.10351	0.28329	2.3634	8.15E-04	6.32E-07	4.31E-06	6.65E-07	4.65E-06	8.2530E-04
520429.81	4258998.52	42864.10567	0.38036	0.1396	0.36225	0.14735	8.15E-04	8.93E-07	2.86E-07	8.50E-07	2.90E-07	8.1709E-04
519989.62	4258809.75	42855.98699	1.37431	0.58419	1.6053	0.56469	8.15E-04	3.23E-06	1.20E-06	3.77E-06	1.11E-06	8.2392E-04
519997.12	4258673.87	42822.60632	1.06341	1.28263	1.28075	1.17508	8.14E-04	2.50E-06	2.63E-06	3.01E-06	2.31E-06	8.2443E-04
520489.59	4258923.74	42820.33751	0.28263	0.13765	0.2703	0.14447	8.14E-04	6.64E-07	2.82E-07	6.35E-07	2.84E-07	8.1580E-04
520094.88	4259013.08	42814.87941	13.46122	0.33011	12.04709	0.30797	8.14E-04	3.16E-05	6.77E-07	2.83E-05	6.06E-07	8.7500E-04
520344.76	4258183.15	42806.24584	0.20368	0.6322	0.20962	0.6806	8.14E-04	4.78E-07	1.30E-06	4.92E-07	1.34E-06	8.1728E-04
520122.56	4259034.5	42785.73089	6.20198	0.31142	5.35437	0.28993	8.13E-04	1.46E-05	6.39E-07	1.26E-05	5.71E-07	8.4162E-04
520494.68	4258215.74	42778.1914	0.1691	0.27465	0.17178	0.29171	8.13E-04	3.97E-07	5.63E-07	4.03E-07	5.74E-07	8.1507E-04
520375.64	4259042.8	42771.97732	0.50931	0.14539	0.48363	0.15517	8.13E-04	1.20E-06	2.98E-07	1.14E-06	3.05E-07	8.1595E-04
520480.39	4258937.55	42769.17986	0.29543	0.13779	0.28215	0.14462	8.13E-04	6.94E-07	2.83E-07	6.62E-07	2.85E-07	8.1488E-04
520537.26	4258284.03	42731.80778	0.16279	0.22529	0.16218	0.23625	8.12E-04	3.82E-07	4.62E-07	3.81E-07	4.65E-07	8.1394E-04
520532.26	4258271.87	42703.26947	0.16313	0.23068	0.16263	0.24235	8.12E-04	3.83E-07	4.73E-07	3.82E-07	4.77E-07	8.1343E-04
520060.67	4258978.98	42702.92462	8.9141	0.34835	17.06479	0.33305	8.12E-04	2.09E-05	7.14E-07	4.01E-05	6.56E-07	8.7407E-04
520099.42	4258382.38	42695.03816	0.38577	14.08928	0.40806	16.00012	8.12E-04	9.06E-07	2.89E-05	9.58E-07	3.15E-05	8.7381E-04
520009.93	4258628.15	42693.51905	1.04484	1.90931	1.29384	1.69202	8.12E-04	2.45E-06	3.92E-06	3.04E-06	3.33E-06	8.2426E-04
520412.51	4259015.69	42692.72657	0.41648	0.14028	0.39607	0.14871	8.12E-04	9.78E-07	2.88E-07	9.30E-07	2.93E-07	8.1400E-04
520498.98	4258909.84	42685.49962	0.2704	0.13723	0.25879	0.14404	8.11E-04	6.35E-07	2.81E-07	6.08E-07	2.84E-07	8.1318E-04
520469.58	4258194.98	42684.93567	0.17366	0.31191	0.17779	0.33175	8.11E-04	4.08E-07	6.40E-07	4.17E-07	6.53E-07	8.1348E-04
520442.65	4258183.45	42682.331	0.17893	0.36057	0.184	0.38304	8.11E-04	4.20E-07	7.40E-07	4.32E-07	7.54E-07	8.1366E-04
520556.86	4258397.81	42672.93957	0.16836	0.19564	0.16624	0.20599	8.11E-04	3.95E-07	4.01E-07	3.90E-07	4.05E-07	8.1273E-04
520554.31	4258351.4	42656.17471	0.16439	0.2027	0.16371	0.2135	8.11E-04	3.86E-07	4.16E-07	3.84E-07	4.20E-07	8.1242E-04
520007.12	4258636.77	42654.40538	1.04702	1.75721	1.28953	1.56951	8.11E-04	2.46E-06	3.60E-06	3.03E-06	3.09E-06	8.2296E-04
520521.97	4258870.3	42651.57735	0.24278	0.13739	0.23282	0.14396	8.11E-04	5.70E-07	2.82E-07	5.47E-07	2.83E-07	8.1241E-04
519986.58	4258778.3	42608.06108	1.23437	0.67572	1.44379	0.64625	8.10E-04	2.90E-06	1.39E-06	3.39E-06	1.27E-06	8.1885E-04
520447.36	4258981.24	42600.01479	0.34785	0.13846	0.33141	0.14561	8.10E-04	8.17E-07	2.84E-07	7.78E-07	2.87E-07	8.1191E-04
520285.97	4258202.96	42597.55318	0.22447	0.94128	0.23486	1.03107	8.10E-04	5.27E-07	1.93E-06	5.51E-07	2.03E-06	8.1474E-04
520548.83	4258319.02	42587.4077	0.16273	0.21149	0.16246	0.22188	8.10E-04	3.82E-07	4.34E-07	3.81E-07	4.37E-07	8.1114E-04
520555.61	4258361.97	42585.58433	0.16504	0.20039	0.16401	0.2112	8.09E-04	3.87E-07	4.11E-07	3.85E-07	4.16E-07	8.1107E-04
520030.43	4258936.52	42563.13077	3.41153	0.37685	4.41023	0.36838	8.09E-04	8.01E-06	7.73E-07	1.04E-05	7.25E-07	8.2891E-04
520266.36	4258212.9	42559.53769	0.23263	1.09594	0.24486	1.20692	8.09E-04	5.46E-07	2.25E-06	5.75E-07	2.38E-06	8.1472E-04
520471.38	4258951.29	42555.8058	0.30868	0.13763	0.29443	0.14446	8.09E-04	7.25E-07	2.82E-07	6.91E-07	2.84E-07	8.1089E-04
520553.17	4258340.9	42523.12538	0.16359	0.20512	0.16321	0.21576	8.08E-04	3.84E-07	4.21E-07	3.83E-07	4.25E-07	8.0990E-04
519999.34	4258863.73	42491.90552	1.73319	0.46913	2.03908	0.459	8.08E-04	4.07E-06	9.62E-07	4.79E-06	9.04E-07	8.1842E-04
520207.5	4258252.72	42483.30854	0.26168	1.88899	0.27586	2.11581	8.08E-04	6.14E-07	3.87E-06	6.48E-07	4.16E-06	8.1683E-04
520019.81	4258599.01	42460.31741	1.02424	2.57719	1.2939	2.2103	8.07E-04	2.40E-06	5.29E-06	3.04E-06	4.35E-06	8.2217E-04
520138.76	4258322.5	42417.4221	0.31668	4.90542	0.32754	5.71974	8.06E-04	7.43E-07	1.01E-05	7.69E-07	1.13E-05	8.2911E-04
520508.59	4258895.85	42409.62596	0.25861	0.13677	0.24776	0.14351	8.06E-04	6.07E-07	2.81E-07	5.82E-07	2.82E-07	8.0788E-04
520570.6	4258741.78	42391.0287	0.18923	0.14637	0.18133	0.15236	8.06E-04	4.44E-07	3.00E-07	4.26E-07	3.00E-07	8.0725E-04
519986.12	4258753.09	42361.63704	1.1516	0.76942	1.35706	0.72804	8.05E-04	2.70E-06	1.58E-06	3.19E-06	1.43E-06	8.1412E-04
520478.56	4258198.82	42353.21008	0.17149	0.29818	0.17526	0.31701	8.05E-04	4.03E-07	6.12E-07	4.11E-07	6.24E-07	8.0711E-04
520113.52	4259030.77	42344.27309	7.76523	0.31542	6.63683	0.29323	8.05E-04	1.82E-05	6.47E-07	1.56E-05	5.77E-07	8.3992E-04
520574.35	4258708.88	42337.91911	0.18333	0.1504	0.17593	0.15686	8.05E-04	4.30E-07	3.08E-07	4.13E-07	3.09E-07	8.0623E-04
520512.53	4258233.39	42336.45448	0.16538	0.25243	0.16663	0.26733	8.05E-04	3.88E-07	5.18E-07	3.91E-07	5.26E-07	8.0656E-04
520521.88	4258247.4	42314.15139	0.16389	0.2418	0.16421	0.25537	8.04E-04	3.85E-07	4.96E-07	3.86E-07	5.03E-07	8.0608E-04
519993.85	4258844.06	42314.04217	1.54587	0.50425	1.80564	0.49156	8.04E-04	3.63E-06	1.03E-06	4.24E-06	9.68E-07	8.1418E-04
520334.97	4258183.12	42312.66726	0.20569	0.67299	0.21219	0.72656	8.04E-04	4.83E-07	1.38E-06	4.98E-07	1.43E-06	8.0808E-04
520305.57	4258193.02	42297.16935	0.21599	0.818	0.22466	0.89083	8.04E-04	5.07E-07	1.68E-06	5.27E-07	1.75E-06	8.0846E-04
520015.81	4258910.5	42288.20087	2.44266	0.40196	2.9759	0.3948	8.04E-04	5.73E-06	8.24E-07	6.99E-06	7.77E-07	8.1814E-04
520246.75	4258222.84	42204.82442	0.2403	1.29311	0.2539	1.43219	8.02E-04	5.64E-07	2.65E-06	5.96E-07	2.82E-06	8.0887E-04
520547.73	4258308.53	42196.52638	0.16188	0.21354	0.16145	0.22385	8.02E-04	3.80E-07	4.38E-07	3.79E-07	4.41E-07	8.0372E-04
520393.73	4258173.3	42195.00555	0.18869	0.47401	0.19356	0.50494	8.02E-04	4.43E-07	9.72E-07	4.54E-07	9.94E-07	8.0491E-04
520085.77	4259009.33	42173.64889	15.97974	0.33019	18.86667	0.30964	8.02E-04	3.75E-05	6.77E-07	4.43E-05	6.10E-07	8.8474E-04
520403.52	4258173.33	42151.86957	0.18629	0.44855	0.19124	0.47713	8.01E-04	4.37E-07	9.20E-07	4.49E-07	9.39E-07	8.0398E-04
520395.42	4259032.77	42151.31641	0.45651	0.14134	0.43396	0.15033	8.01E-04	1.07E-06	2.90E-07	1.02E-06	2.96E-07	8.0390E-04
520383.95	4258173.27	42129.03275	0.19098	0.50137	0.19585	0.53497	8.01E-04	4.48E-07	1.03E-06	4.60E-07	1.05E-06	8.0379E-04
520546.67	4258822.87	42094.27877	0.21601	0.13909	0.20739	0.14501	8.00E-04	5.07E-07	2.85E-07	4.87E-07	2.85E-07	8.0170E-04
520550.31	4258814.19	42064.0913	0.21215	0.13965	0.20366	0.1455	8.00E-04	4.98E-07	2.86E-07	4.78E-07	2.86E-07	8.0111E-04
520503.36	4258219.45	42063.51431	0.1666	0.26375	0.16877	0.27987	8.00E-04	3.91E-07	5.41E-07	3.96E-07	5.51E-07	8.0143E-04
520365.75	4259052.82	42061.92073	0.53894	0.14615	0.51132	0.15628	8.00E-04	1.27E-06	3.00E-07	1.20E-06	3.08E-07	8.0259E-04
520413.31	4258173.36	42061.45411	0.18391	0.42472	0.18889	0.45142	8.00E-04	4.32E-07	8.71E-07	4.43E-07	8.89E-07	8.0215E-04
520531.58	4258856.31	42043.34571	0.23238	0.13716	0.22308	0.14347	7.99E-04	5.46E-07	2.81E-07	5.24E-07	2.82E-07	8.0080E-04
520000.96	4258874.39	42029.99576	1.80198	0.44992	2.12131	0.44095	7.99E-04	4.23E-06	9.23E-07	4.98E-06	8.68E-07	8.0992E-04
520421.05	4259012.15	41986.19263	0.39834	0.13862	0.3792	0.1467	7.98E-04	9.35E-07	2.84E-07	8.90E-07	2.89E-07	8.0048E-04
520553.94	4258805.51	41984.57825	0.20835	0.14018	0.19998	0.14594	7.98E-04	4.89E-07	2.87E-07	4.69E-07	2.87E-07	7.9958E-04
520217.32	4258242.75	41967.98386	0.25416	1.70725	0.26837	1.90579	7.98E-04	5.97E-07	3.50E-06	6.30E-07	3.75E-06	8.0622E-04
520438.41	4258994.96	41964.44888	0.36424	0.13782	0.34705	0.14522	7.98E-04	8.55E-07	2.83E-07	8.15E-07	2.86E-07	7.9991E-04
520374.16	4258173.24	41940.20992	0.19315	0.53091	0.19815	0.56747	7.97E-04	4.53E-07	1.09E-06	4.65E-07	1.12E-06	8.0033E-04
520487.53	4258202.66	41909.89434	0.16921	0.2853	0.17256	0.30316	7.97E-04	3.97E-07	5.85E-07	4.05E-07	5.97E-07	7.9862E-04
520531.44	4258261.51	41899.47847	0.16212	0.23191	0.16175	0.24404	7.96E-04	3.81E-07	4.76E-07	3.80E-07	4.80E-07	7.9815E-04
520423.1	4258173.39	41885.53884	0.18147	0.40244	0.18644	0.42754	7.96E-04	4.26E-07	8.25E-07	4.38E-07	8.42E-07	7.9870E-04
520104.49	4259027.04	41865.12827	10.02281	0.3181	8.56897	0.29597	7.96E-04	2.35E-05	6.52E-07	2.01E-05	5.83E-07	8.4067E-04
520557.58	4258796.83	41847.9946	0.20461	0.14069	0.19636	0.14637	7.95E-04	4.80E-07	2.89E-07	4.61E-07	2.88E-07	7.9697E-04
520109.27	4258362.41	41827.92221	0.35706	9.93389	0.37374	11.78621	7.95E-04	8.38E-07	2.04E-05	8.77E-07	2.32E-05	8.4036E-04
520465.2	4258963.85	41801.94968	0.31839	0.13677	0.30357	0.14356	7.95E-04	7.47E-07	2.81E-07	7.13E-07	2.83E-07	7.9660E-04
519985.87	4258800.71	41765.02319	1.2726	0.60285	1.48146	0.58082	7.94E-04	2.99E-06	1.24E-06	3.48E-06	1.14E-06	8.0272E-04
520003.68	4258885.5	41754.95011	1.90885	0.4322	2.25712	0.4242	7.94E-04	4.48E-06	8.86E-07	5.30E-06	8.35E-07	8.0519E-04
520325.18	4258183.08	41741.42386	0.20756	0.71765	0.21477	0.77708	7.93E-04	4.87E-07	1.47E-06	5.04E-07	1.53E-06	7.9742E-04
520059.4	4258501.87	41712.54558	0.75297	13.19356	0.85982	7.96512	7.93E-04	1.77E-06	2.71E-05	2.02E-06	1.57E-05	8.3940E-04
520574.06	4258733.51	41710.59665	0.18604	0.14633	0.17833	0.15243	7.93E-04	4.37E-07	3.00E-07	4.19E-07	3.00E-07	7.9430E-04
520364.37	4258173.21	41704.0436	0.19531	0.56271	0.20051	0.60286	7.93E-04	4.59E-07	1.15E-06	4.71E-07	1.19E-06	7.9599E-04
520041.83	4258961.21	41693.11792	4.65112	0.35423	6.51307	0.3439	7.93E-04	1.09E-05	7.26E-07	1.53E-05	6.77E-07	8.2012E-04
519990.14	4258835.12	41675.40822	1.43809	0.51958	1.67193	0.50544	7.92E-04	3.38E-06	1.07E-06	3.93E-06	9.95E-07	8.0154E-04
520385.54	4259042.79	41661.38367	0.48198	0.14192	0.4579	0.15125	7.92E-04	1.13E-06	2.91E-07	1.08E-06	2.98E-07	7.9470E-04
520546.76	4258298.1	41630.84835	0.16089	0.21565	0.16036	0.22589	7.91E-04	3.78E-07	4.42E-07	3.76E-07	4.45E-07	7.9297E-04
520051.75	4258975.3	41630.7529	6.39395	0.34525	10.37462	0.33269	7.91E-04	1.50E-05	7.08E-07	2.44E-05	6.55E-07	8.3206E-04
520403.92	4259029.25	41627.70588	0.43614	0.13949	0.41484	0.14816	7.91E-04	1.02E-06	2.86E-07	9.74E-07	2.92E-07	7.9384E-04
520561.21	4258788.15	41625.82791	0.20089	0.14107	0.19273	0.14668	7.91E-04	4.72E-07	2.89E-07	4.52E-07	2.89E-07	7.9273E-04
520554.95	4258470.43	41620.72111	0.17588	0.18906	0.1724	0.19929	7.91E-04	4.13E-07	3.88E-07	4.05E-07	3.92E-07	7.9273E-04
519988.27	4258710.04	41583.77319	1.05141	0.97989	1.24161	0.91295	7.90E-04	2.47E-06	2.01E-06	2.91E-06	1.80E-06	7.9962E-04
520276.18	4258202.93	41559.35072	0.22541	1.01631	0.23682	1.11599	7.90E-04	5.29E-07	2.08E-06	5.56E-07	2.20E-06	7.9533E-04
520432.89	4258173.42	41556.72296	0.17887	0.38178	0.18386	0.40534	7.90E-04	4.20E-07	7.83E-07	4.32E-07	7.98E-07	7.9235E-04
520456.03	4258977.66	41518.47371	0.33344	0.13653	0.31784	0.14341	7.89E-04	7.83E-07	2.80E-07	7.46E-07	2.82E-07	7.9128E-04
520520.98	4258880.72	41495.82151	0.24456	0.13566	0.23464	0.14217	7.89E-04	5.74E-07	2.78E-07	5.51E-07	2.80E-07	7.9044E-04
520558.91	4258429.07	41491.55093	0.17037	0.19119	0.16776	0.20106	7.89E-04	4.00E-07	3.92E

520049.48	4258521.31	40959.43353	0.81503	7.72475	0.95063	5.52178	7.79E-04	1.91E-06	1.58E-05	2.23E-06	1.09E-05	8.0942E-04
519986.43	4258826.18	40911.2484	1.33766	0.53542	1.54972	0.51958	7.78E-04	3.14E-06	1.10E-06	3.64E-06	1.02E-06	7.8655E-04
520344.79	4258173.15	40898.93969	0.19921	0.63476	0.20533	0.68323	7.77E-04	4.68E-07	1.30E-06	4.82E-07	1.34E-06	7.8101E-04
520517.31	4258892.25	40821.45872	0.24915	0.13452	0.23895	0.14103	7.76E-04	5.85E-07	2.76E-07	5.61E-07	2.78E-07	7.7764E-04
520178.07	4258272.63	40807.29882	0.27305	2.67629	0.28428	3.03088	7.76E-04	6.41E-07	5.49E-06	6.67E-07	5.97E-06	7.8844E-04
520168.25	4258282.6	40803.04554	0.28023	3.05343	0.29067	3.47826	7.76E-04	6.58E-07	6.26E-06	6.82E-07	6.85E-06	7.9004E-04
520236.96	4258222.81	40745.51455	0.23971	1.41635	0.2534	1.5719	7.74E-04	5.63E-07	2.90E-06	5.95E-07	3.09E-06	7.8166E-04
520086.42	4259019.59	40713.91338	15.69544	0.31936	18.13915	0.29961	7.74E-04	3.68E-05	6.55E-07	4.26E-05	5.90E-07	8.5458E-04
520187.89	4258262.66	40680.51168	0.26592	2.36821	0.27788	2.66899	7.73E-04	6.24E-07	4.86E-06	6.52E-07	5.25E-06	7.8465E-04
520572.12	4258762.1	40668.39376	0.19034	0.14216	0.18249	0.14769	7.73E-04	4.47E-07	2.92E-07	4.28E-07	2.91E-07	7.7449E-04
520158.43	4258292.56	40618.27312	0.28732	3.52511	0.29711	4.04013	7.72E-04	6.75E-07	7.23E-06	6.98E-07	7.95E-06	7.8863E-04
520505.49	4258210.35	40612.49689	0.1643	0.26225	0.16675	0.27815	7.72E-04	3.86E-07	5.38E-07	3.91E-07	5.48E-07	7.7383E-04
520487.21	4258192.51	40605.42822	0.16736	0.2869	0.17095	0.30475	7.72E-04	3.93E-07	5.88E-07	4.01E-07	6.00E-07	7.7382E-04
519982.12	4258791.66	40535.44661	1.17812	0.62175	1.36659	0.59687	7.71E-04	2.77E-06	1.28E-06	3.21E-06	1.17E-06	7.7893E-04
520286	4258192.96	40528.44019	0.21845	0.94539	0.22912	1.03491	7.70E-04	5.13E-07	1.94E-06	5.38E-07	2.04E-06	7.7540E-04
520042.84	4258971.62	40515.78958	4.8046	0.34232	6.78364	0.33217	7.70E-04	1.13E-05	7.02E-07	1.59E-05	6.54E-07	7.9869E-04
520119.12	4258342.44	40515.68692	0.33119	7.54537	0.34375	8.98191	7.70E-04	7.78E-07	1.55E-05	8.07E-07	1.77E-05	8.0487E-04
520395.44	4259042.77	40497.34957	0.45666	0.13861	0.43412	0.14751	7.70E-04	1.07E-06	2.84E-07	1.02E-06	2.90E-07	7.7245E-04
520006.88	4258906.81	40488.3594	2.05375	0.39969	2.44511	0.39302	7.70E-04	4.82E-06	8.20E-07	5.74E-06	7.74E-07	7.8177E-04
520393.77	4258163.3	40471.11143	0.18512	0.47618	0.18978	0.50694	7.69E-04	4.35E-07	9.77E-07	4.46E-07	9.98E-07	7.7224E-04
520197.71	4258252.69	40470.22217	0.25894	2.11199	0.27143	2.37202	7.69E-04	6.08E-07	4.33E-06	6.37E-07	4.67E-06	7.7951E-04
520403.55	4258163.33	40469.4465	0.1829	0.45072	0.18758	0.47908	7.69E-04	4.29E-07	9.24E-07	4.40E-07	9.43E-07	7.7199E-04
519982.5	4258744.34	40457.30199	1.06046	0.79075	1.24024	0.74582	7.69E-04	2.49E-06	1.62E-06	2.91E-06	1.47E-06	7.7751E-04
520335	4258173.12	40453.8013	0.20114	0.67553	0.20784	0.72945	7.69E-04	4.72E-07	1.39E-06	4.88E-07	1.44E-06	7.7274E-04
520413.34	4258163.36	40423.03986	0.18068	0.42683	0.18538	0.45328	7.68E-04	4.24E-07	8.75E-07	4.35E-07	8.92E-07	7.7100E-04
520266.39	4258202.9	40416.59914	0.22586	1.10102	0.23816	1.21128	7.68E-04	5.30E-07	2.26E-06	5.59E-07	2.38E-06	7.7398E-04
520464.69	4258974.07	40409.25496	0.31994	0.13464	0.30519	0.1413	7.68E-04	7.51E-07	2.76E-07	7.16E-07	2.78E-07	7.7013E-04
520032.84	4258957.5	40396.98045	3.64843	0.35112	4.77189	0.34291	7.68E-04	8.57E-06	7.20E-07	1.12E-05	6.75E-07	7.8904E-04
520540.33	4258265.31	40391.1348	0.15918	0.22367	0.1586	0.23486	7.68E-04	3.74E-07	4.59E-07	3.72E-07	4.62E-07	7.6943E-04
520438.15	4259005.07	40382.73363	0.36524	0.13524	0.34813	0.14263	7.68E-04	8.57E-07	2.77E-07	8.17E-07	2.81E-07	7.6984E-04
520383.98	4258163.27	40380.2316	0.18726	0.50357	0.19199	0.53707	7.68E-04	4.40E-07	1.03E-06	4.51E-07	1.06E-06	7.7054E-04
520052.62	4258985.65	40373.96967	6.60144	0.33383	10.91077	0.32156	7.67E-04	1.55E-05	6.85E-07	2.56E-05	6.33E-07	8.0987E-04
520420.91	4259022.22	40366.31466	0.39905	0.13594	0.37991	0.14397	7.67E-04	9.37E-07	2.79E-07	8.92E-07	2.83E-07	7.6968E-04
520540.11	4258852.78	40320.53528	0.22438	0.13501	0.21557	0.14105	7.66E-04	5.27E-07	2.77E-07	5.06E-07	2.78E-07	7.6801E-04
520423.13	4258163.39	40302.79239	0.17842	0.40444	0.18312	0.42931	7.66E-04	4.19E-07	8.29E-07	4.30E-07	8.45E-07	7.6861E-04
520305.61	4258183.02	40300.06263	0.2106	0.82135	0.21962	0.89401	7.66E-04	4.94E-07	1.68E-06	5.16E-07	1.76E-06	7.7049E-04
520148.61	4258302.53	40233.25463	0.29429	4.12913	0.30374	4.76045	7.65E-04	6.91E-07	8.47E-06	7.13E-07	9.37E-06	7.8400E-04
520520.72	4258226.88	40228.473	0.16136	0.24435	0.16258	0.25847	7.65E-04	3.79E-07	5.01E-07	3.82E-07	5.09E-07	7.6644E-04
520575.75	4258753.42	40182.79666	0.18696	0.1422	0.1792	0.14782	7.64E-04	4.39E-07	2.92E-07	4.21E-07	2.91E-07	7.6524E-04
520374.19	4258163.24	40172.16088	0.18928	0.53312	0.19422	0.56965	7.64E-04	4.44E-07	1.09E-06	4.56E-07	1.12E-06	7.6672E-04
520530.02	4258240.87	40138.93303	0.15992	0.23418	0.1602	0.24713	7.63E-04	3.75E-07	4.80E-07	3.76E-07	4.86E-07	7.6469E-04
520581.34	4258692.19	40137.92405	0.17736	0.15018	0.17028	0.15641	7.63E-04	4.16E-07	3.08E-07	4.00E-07	3.08E-07	7.6438E-04
520207.53	4258242.72	40137.49448	0.252	1.89707	0.2649	2.12313	7.63E-04	5.92E-07	3.89E-06	6.22E-07	4.18E-06	7.7222E-04
520496.11	4258196.32	40128.75426	0.16516	0.27467	0.16832	0.29165	7.63E-04	3.88E-07	5.63E-07	3.95E-07	5.74E-07	7.6470E-04
520558.29	4258479.19	40114.26465	0.17474	0.18577	0.17088	0.19583	7.62E-04	4.10E-07	3.81E-07	4.01E-07	3.85E-07	7.6408E-04
520556.51	4258312.29	40107.92628	0.1588	0.20577	0.1584	0.21571	7.62E-04	3.73E-07	4.22E-07	3.72E-07	4.25E-07	7.6397E-04
520580.99	4258716.98	40096.97801	0.17992	0.14623	0.17265	0.15242	7.62E-04	4.22E-07	3.00E-07	4.05E-07	3.00E-07	7.6360E-04
520561.7	4258344.55	40095.31178	0.16042	0.19789	0.15977	0.20821	7.62E-04	3.77E-07	4.06E-07	3.75E-07	4.10E-07	7.6371E-04
520488.27	4258944.29	40070.2866	0.28567	0.13377	0.27326	0.14026	7.62E-04	6.71E-07	2.74E-07	6.42E-07	2.76E-07	7.6353E-04
520009.89	4258618.45	40065.43	0.96947	1.99029	1.19408	1.75881	7.62E-04	2.28E-06	4.08E-06	2.80E-06	3.46E-06	7.7419E-04
520497.41	4258930.5	40048.47901	0.27368	0.13345	0.26187	0.13997	7.61E-04	6.43E-07	2.74E-07	6.15E-07	2.76E-07	7.6306E-04
520562.93	4258355.09	40045.88354	0.16108	0.19566	0.16009	0.20604	7.61E-04	3.78E-07	4.01E-07	3.76E-07	4.06E-07	7.6276E-04
520385.56	4259052.79	40034.11417	0.482	0.13919	0.4579	0.14843	7.61E-04	1.13E-06	2.85E-07	1.08E-06	2.92E-07	7.6376E-04
520432.92	4258163.42	40030.06677	0.176	0.38369	0.18074	0.40699	7.61E-04	4.13E-07	7.87E-07	4.24E-07	8.01E-07	7.6332E-04
520562.15	4258437.59	40027.61481	0.16951	0.18802	0.16671	0.19771	7.61E-04	3.98E-07	3.86E-07	3.91E-07	3.89E-07	7.6242E-04
519982.73	4258817.24	40019.02391	1.24365	0.55181	1.43772	0.5339	7.61E-04	2.92E-06	1.13E-06	3.38E-06	1.05E-06	7.6917E-04
520455.62	4258987.83	40017.41284	0.33474	0.13423	0.31925	0.14104	7.61E-04	7.86E-07	2.75E-07	7.49E-07	2.78E-07	7.6275E-04
520002.62	4258943.29	40010.20203	2.86096	0.36076	3.57112	0.35402	7.61E-04	6.72E-06	7.40E-07	8.38E-06	6.97E-07	7.7706E-04
520094.69	4259031.31	40005.31464	13.47248	0.31077	12.13057	0.29039	7.60E-04	3.16E-05	6.37E-07	2.85E-05	5.72E-07	8.2175E-04
520246.78	4258212.84	40005.07615	0.23268	1.29938	0.24599	1.43706	7.60E-04	5.46E-07	2.66E-06	5.78E-07	2.83E-06	7.6704E-04
520563.96	4258390.6	39995.01208	0.16419	0.19055	0.16206	0.20063	7.60E-04	3.85E-07	3.91E-07	3.80E-07	3.95E-07	7.6178E-04
520404.18	4259039.15	39992.08767	0.43578	0.13676	0.41455	0.14533	7.60E-04	1.02E-06	2.80E-07	9.73E-07	2.86E-07	7.6274E-04
520563.81	4258416.06	39989.08215	0.16681	0.18914	0.16429	0.1988	7.60E-04	3.92E-07	3.88E-07	3.86E-07	3.91E-07	7.6168E-04
520506.73	4258916.64	39926.20279	0.26213	0.13313	0.25107	0.13963	7.59E-04	6.15E-07	2.73E-07	5.89E-07	2.75E-07	7.6068E-04
520364.4	4258163.21	39918.15973	0.19128	0.56495	0.19653	0.60511	7.59E-04	4.49E-07	1.16E-06	4.61E-07	1.19E-06	7.6203E-04
520325.21	4258173.08	39892.23918	0.20284	0.72029	0.21029	0.78008	7.58E-04	4.76E-07	1.48E-06	4.94E-07	1.54E-06	7.6226E-04
519992.19	4258870.77	39842.27542	1.54782	0.44745	1.7981	0.43809	7.57E-04	3.63E-06	9.18E-07	4.22E-06	8.62E-07	7.6696E-04
520099.45	4258372.38	39788.57443	0.36281	14.14659	0.3829	15.72817	7.56E-04	8.52E-07	2.90E-05	8.99E-07	3.10E-05	8.1803E-04
520460.39	4258171.02	39771.43764	0.17063	0.33126	0.17534	0.35121	7.56E-04	4.01E-07	6.79E-07	4.12E-07	6.91E-07	7.5836E-04
520469.23	4258174.8	39771.6649	0.1691	0.31603	0.17353	0.33532	7.56E-04	3.97E-07	6.48E-07	4.07E-07	6.60E-07	7.5810E-04
520514.47	4258214.19	39769.54111	0.1617	0.2519	0.16369	0.26681	7.56E-04	3.80E-07	5.17E-07	3.84E-07	5.25E-07	7.5775E-04
520555.45	4258301.82	39757.91779	0.15795	0.2078	0.15743	0.21764	7.56E-04	3.71E-07	4.26E-07	3.70E-07	4.28E-07	7.5732E-04
520008.28	4258917.38	39746.54742	2.12129	0.38488	2.53432	0.3787	7.56E-04	4.98E-06	7.89E-07	5.95E-06	7.45E-07	7.6797E-04
520451.55	4258167.23	39727.10776	0.17207	0.34737	0.1769	0.36814	7.55E-04	4.04E-07	7.12E-07	4.15E-07	7.25E-07	7.5740E-04
520217.35	4258232.75	39701.44388	0.24514	1.71473	0.25829	1.91231	7.55E-04	5.76E-07	3.52E-06	6.06E-07	3.76E-06	7.6312E-04
520539.51	4258254.95	39686.08037	0.15821	0.22475	0.15779	0.23638	7.54E-04	3.71E-07	4.61E-07	3.70E-07	4.65E-07	7.5603E-04
520516.26	4258902.69	39673.68854	0.25098	0.13273	0.24065	0.13916	7.54E-04	5.88E-07	2.72E-07	5.65E-07	2.74E-07	7.5583E-04
520138.79	4258312.5	39672.38932	0.30117	4.92349	0.31061	5.72023	7.54E-04	7.07E-07	1.01E-05	7.29E-07	1.13E-05	7.7689E-04
520058.46	4258998.05	39661.11851	8.23962	0.32434	16.70518	0.31104	7.54E-04	1.93E-05	6.65E-07	3.92E-05	6.12E-07	8.1373E-04
520429.41	4259018.7	39650.47072	0.1821	0.13428	0.36403	0.14199	7.54E-04	8.97E-07	2.75E-07	8.55E-07	2.80E-07	7.5599E-04
520442.71	4258163.45	39637.77768	0.17346	0.36438	0.17824	0.38623	7.53E-04	4.07E-07	7.47E-07	4.18E-07	7.60E-07	7.5578E-04
519994.57	4258881.74	39632.31051	1.62697	0.42991	1.89366	0.42166	7.53E-04	3.82E-06	8.82E-07	4.45E-06	8.30E-07	7.6332E-04
519986.82	4258851.23	39619.41226	1.38887	0.47977	1.60753	0.46792	7.53E-04	3.26E-06	9.84E-07	3.77E-06	9.21E-07	7.6203E-04
520478.07	4258178.58	39619.0082	0.16736	0.30181	0.17149	0.32036	7.53E-04	3.93E-07	6.19E-07	4.03E-07	6.31E-07	7.5513E-04
520579.39	4258744.73	39558.10242	0.18365	0.14214	0.17601	0.14789	7.52E-04	4.31E-07	2.92E-07	4.13E-07	2.91E-07	7.5336E-04
520354.61	4258163.18	39546.88841	0.19312	0.59954	0.19885	0.6436	7.52E-04	4.53E-07	1.23E-06	4.67E-07	1.27E-06	7.5513E-04
519997.12	4258655.32	39527.39305	0.96057	1.41316	1.15572	1.28576	7.51E-04	2.26E-06	2.90E-06	2.71E-06	2.53E-06	7.6174E-04
520276.21	4258192.93	39521.89179	0.21913	1.0208	0.2307	1.11991	7.51E-04	5.14E-07	2.09E-06	5.42E-07	2.20E-06	7.5661E-04
520446.7	4259001.53	39503.00478	0.35011	0.13159	0.33392	0.14064	7.51E-04	8.22E-07	2.74E-07	7.84E-07	2.77E-07	7.5304E-04
520295.82	4258182.99	39484.00621	0.21177	0.88184	0.22176	0.9623	7.51E-04	4.97E-07	1.81E-06	5.21E-07	1.89E-06	7.5524E-04
520505.02	4258200.13	39474.69351	0.16277	0.26372	0.16556	0.27971	7.50E-04	3.82E-07	5.41E-07	3.89E-07	5.51E-07	7.5220E-04
520553.69	4258830.05	39463.8569	0.21096	0.13509	0.20269	0.14078	7.50E-04	4.95E-07	2.77E-07	4.76E-07	2.77E-07	7.5166E-04
520557.29	4258821.46	39442.21759	0.20729	0.13566	0.19917	0.14128	7.50E-04	4.87E-07	2.78E-07	4.68E-07	2.78E-07	7.5124E-04
519979.4	4258761	39407.78779	1.05021	0.71611	1.22391	0.67903	7.49E-04	2.47E-06	1.47E-06	2.87E-06	1.34E-06	7.5722E-04
520412.92	4259035.53	39406.5527	0.41625	0.13481	0.39595	0.14308	7.49E-04	9.77E-07	2.76E-07	9.30E-07	2.82E-07	7.5151E-04
520012.13	4258928.96	39404.40082	2.29563	0.37155	2.77029	0.36559	7.49E-04	5.39E-06	7.62E-07	6.50E-06	7.20E-07	7.6238E-04
520039.56	4258540.74	39386.33469	0.86413	5.20603	1.04037	4.01639	7.49E-04	2.03E-06	1.07E-05	2.44E-06	7.91E-06	7.7172E-04
520560.88	4258182.87	39379.08865	0.2037	0.13618	0.19569	0.14172	7.49E-04	4.78E-07	2.79E-07	4.59E-07	2.79E-07	7.5002E-04
520538.86	4258863.31	39373.81139	0.22637	0.13137	0.21747	0.13923	7.48E-04	5.31E-07	2.73E-07	5.11E-07	2.74E-07	7.5001E-04
520550.22	4258279.56	39368.76248	0.15714	0.21437	0.15647	0.22442	7.48E-04	3.69E-07	4.40E-07	3.67E-07	4.42E-07	7.4995E-04
520033.92	4258967.94	39357.84353	3.76285	0.33945	4.94539	0.33135	7.48E-04	8.83E-06	6.96E-07	1.16E-05	6.52E-07	7.6991E-04
520043.77	4258982	39355.30591	4.95041	0.33103	7.04842	0.32106	7.48E-04	1.16E-05	6.79E-07	1.65E-05	6.32E-07	7.7755E-04
520486.91	4258182.37	39327.97055	0.16545	0.28864	0.16924	0.30638	7.48E-04	3.88E-07	5.92E-07	3.97E-07	6.03E-07	7.4953E-04
520526.02	4258884.64	39287.5519	0.24019	0.13233	0.2306	0.13862	7.47E-04	5.64E-07	2.71E-07	5.41E-07	2.73E-07	7.4843E-04
520473.36	4258970.48	39279.21853	0.30718	0.1328	0.29333	0.13927	7.47E-04	7.21E-07	2.72E-07	6.89E-07	2.74E-07	7.4858E-04
520564.48	4258804.28	39267.95341	0.20015	0.13666	0.19224	0.14212	7.46E-04	4.70E-07	2.80E-07	4.51E-07	2.80E-07	7.4789E-04
520554.5	4258291.4	39258.62397	0.15699	0.20981	0.15639	0.21956	7.46E-04	3.69E-07	4.30E-07	3.67E-07	4.32E-07	7.4783E-04
520561.76	4258462.44	39257.58313	0.17169	0.18544	0.16835	0.19527	7.46E-04	4.03E-07	3.80E-07	3.95E-07	3.84E-07	7.4778E-04
520019.77	4258589.32	39250.58963	0.94386	2.67571	1.1862	2.28182	7.46E-04	2.22E-06	5.49E-06	2.78E-06	4.49E-06	7.6106E-04
520256.6	4258202.87	39223.083	0.22587	1.19669	0.23871	1.31906	7.46E-04	5.30E-07	2.45E-06	5.60E-07	2.60E-06	7.5170E-04
520315.43	4258173.05	39216.48298	0.20427	0.76972	0.21261	0.83566	7.45E-04	4.80E-07	1.58E-06	4.99E-07	1.64E-06	7.4964E-04
520529.4	4258230.59	39215.30576	0.15875	0.23538	0.15946	0.24862	7.45E-04	3.73E-07	4.83E-07	3.74E-07	4.89E-07	7.4713E-04
520227.17	4258222.78	39210.01456	0.23846	1.55801	0.25163	1.73243	7.45E-04	5.60E-07	3.20E-06	5.91E-07	3.41E-06	7.5307E-04
519996.34	4258892.47	39200.63374	1.69092	0.41327	1.97271	0.40592	7.45E-04	3.97E-06	8.48E-07	4.63E-06	7.99E-07	7.5538E-04
519978.37	4258782.62	39168.54224	1.08995	0.64058	1.25975	0.61261	7.45E-04	2.56E-06	1.31E-06	2.96E-06	1.21E-06	7.5256E-04
520344.82	4258163.15	39121.76994	0.1949	0.6371	0.20123	0.68569	7.44E-04	4.58E-07	1.31E-06	4.72E-07	1.35E-06	7.4722E-04
520568.08	4258795.69	39108.07238	0.19664	0.13709	0.18882	0.14248	7.43E-04	4.62E-07	2.81E-07	4.43E-07	2.80E-07	7.4484E-04
520023.85	4258953.79	39054.76647	2.95164	0.34837	3.70021	0.34178	7.42E-04	6.93E-06	7.14E-07	8.69E-06	6.73E-07	7.5936E-04
520109.3	4258352.41	39047.02963	0.33731	9.96295	0.35215	11.79272	7.42E-04	7.92E-07	2.04E-05	8.27E-07	2.32E-05	7.8748E-04
519983.15	4258842.38	39006.83023	1.29729	0.49359	1.49569	0.48042	7.41E-04	3.05E-06	1.01E-06	3.51E-06	9.46E-07	7.4996E-04
519979.02	4258808.3	39001.70129	1.15614	0.56839	1.33299	0.54817	7.41E-04	2.71E-06	1.16E-06	3.13E-06	1.08E-06	7.4944E-04
520464.23	4258984.27	38989.70893	0.32122	0.13241	0.30654	0.13898	7.41E-04	7.54E-07	2.72E-07	7.20E-07	2.74E-07	7.4314E-04
520567.38	4258399.59	38984.95814	0.16363	0.18816	0.1613	0.19783	7.41E-04	3.84E-07	3.86E-07	3.79E-07	3.89E-07	7.4257E-04
520583.02	4258736.05	38955.92287	0.18052	0.14219	0.17308	0.14804	7.40E-04	4.24E-07	2.92E-07	4.06E-07	2.91E-07	7.4189E-04
520395.46	4259052.77	38937.56038	0.4567	0.13596	0.43418	0.14478	7.40E-04	1.07E-06	2.79E-07	1.02E-06	2.85E-07	7.4279E-04
520495.74	4258186.15	38921.34536	0.1634	0.27639	0.16683	0.29331	7.40E-04	3.84E-07	5.67E-07	3.92E-07	5.77E-07	7.4174E-04
520538.76	4258244.61	38914.50589	0.15718	0.22586	0.15705	0.23788	7.40E-04	3.69E-07	4.63E-07	3.69E-07	4.68E-07	7.4136E-04
520393.8	4258153.3	38895.63801	0.18172	0.47801	0.18617	0.50886	7.39E-04	4.27E-07	9.80E-07	4.37E-07	1.00E-06	7.4218E-04
520437.91	4259015.18	38881.90904	0.36611	0.1327	0.34908	0.14007	7.39E-04	8.60E-07	2.72E-07	8.20E-07	2.76E-07	7.4130E-04
520403.59	4258153.33	38877.29144	0.17956	0.45265	0.18402	0.48084	7.39E-04	4.22E-07	9.28E-07	4.32E-07	9.47E-07	7.4172E-04
520567.71	4258374.57	38870.99606	0.16103	0.1903	0.15933	0.20032	7.39E-04	3.78E-07	3.90E-07	3.74E-07	3.94E-07	7.4040E-04
520523.44	4258218.03	38853.0012	0.15908	0.24217	0.16058	0.25614	7.39E-04	3.73E-07	4.97E-07	3.77E-07	5.04E-07	7.4028E-04
520413.37	4258153.36	38851.35997	0.17747	0.42881	0.18193	0.45498	7.38E-04	4.17E-07	8.79E-07	4.27E-07	8.96E-07	7.4111E-04
520549.22	4258269.12	38842.36126	0.15628	0.21578	0.15557	0.22615	7.38E-04	3.67E-07	4.43E-07	3.65E-07	4.45E-07	7.3994E-04
520128.97	4258322.47	38834.1716	0.30762	6.01225	0.31778	7.01049	7.38E-04	7.22E-07	1.23E-05	7.46E-07	1.38E-05	7.6577E-04
520084.79	4259031.32	38824.14846	14.49393	0.30653	19.95932	0.28818	7.38E-04	3.40E-05	6.29E-07	4.69E-05	5.67E-07	8.2006E-04
520571.67	4258787.1	38809.70012	0.19312	0.13741	0.18537	0.14273	7.38E-04	4.53E-07	2.82E-07	4.35E-07	2.81E-07	7.3915E-04
520496.72	4258940.8	38787.28299	0.27515	0.13158	0.26328	0.13794	7.37E-04	6.46E-07	2.70E-07	6.18E-07	2.72E-07	7.3908E-04
520384.01	4258153.27	38775.36665	0.18372	0.50542	0.18832	0.53908	7.37E-04	4.31E-07	1.04E-06	4.42E-07	1.06E-06	7.4002E-04
520421.66	4259031.91	38771.46908	0.39782	0.13317	0.37884	0.14112	7.37E-04	9.34E-07	2.73E-07	8.89E-07	2.78E-07	7.3935E-04
519981.79	4258718.53	38762.96747	0.96707	0.89782	1.12901	0.83992	7.37E-04	2.27E-06	1.84E-06	2.65E-06	1.65E-06	7.4523E-04
520423.16	4258153.39	38752.83883	0.17533	0.40644	0.1798	0.43092	7.37E-04	4.12E-07	8.34E-07	4.22E-07	8.48E-07	7.3914E-04
520505.92	4258926.98	38725.1791	0.26369	0.1313	0.25254	0.13767	7.36E-04	6.19E-07	2.69E-07	5.93E-07	2.71E-07	7.3785E-04
520049.35	4258994.29	38720.80873	5.92973	0.32156	9.0923	0.31069	7.36E-04	1.39E-05	6.59E-07	2.13E-05	6.12E-07	7.7255E-04
520513.92	4258203.94	38708.3466	0.16029	0.25334	0.16268	0.26835	7.36E-04	3.76E-07	5.20E-07	3.82E-07	5.28E-07	7.3758E-04
520335.03	4258163.12	38691.55196	0.1967	0.67793	0.20364	0.73204	7.35E-04	4.62E-07	1.39E-06	4.78E-07	1.44E-06	7.3923E-04
519997.95	4258803.12	38679.6867	1.75158	0.39768	2.04868	0.39106	7.35E-04	4.11E-06	8.16E-07	4.81E-06	7.70E-07	7.4574E-04
519984.55	4258701.08	38664.77567	0.94998	0.99898	1.11479	0.92922	7.35E-04	2.23E-06	2.05E-06	2.62

520486.63	4258172.24	38092.19219	0.16348	0.2904	0.16744	0.30798	7.24E-04	3.84E-07	5.96E-07	3.93E-07	6.06E-07	7.2604E-04
519999.43	4258913.73	38084.07074	1.80954	0.38295	2.12193	0.37694	7.24E-04	4.25E-06	7.85E-07	4.98E-06	7.42E-07	7.3467E-04
520430.4	4259028.3	38076.54978	0.38052	0.13152	0.36266	0.13915	7.24E-04	8.93E-07	2.70E-07	8.51E-07	2.74E-07	7.2605E-04
520446.41	4259011.66	38067.20209	0.35106	0.1311	0.33493	0.13814	7.24E-04	8.24E-07	2.69E-07	7.86E-07	2.72E-07	7.2574E-04
520568.02	4258337.24	38037.34622	0.15697	0.19406	0.15638	0.20395	7.23E-04	3.69E-07	3.98E-07	3.67E-07	4.01E-07	7.2456E-04
520565.29	4258316.05	38001.62798	0.15572	0.19855	0.15534	0.20814	7.22E-04	3.66E-07	4.07E-07	3.65E-07	4.10E-07	7.2389E-04
520207.56	4258232.72	37984.84869	0.24283	1.90446	0.25445	2.12989	7.22E-04	5.70E-07	3.91E-06	5.97E-07	4.19E-06	7.3129E-04
520246.81	4258202.84	37970.36235	0.22538	1.30526	0.23826	1.4415	7.22E-04	5.29E-07	2.68E-06	5.59E-07	2.84E-06	7.2835E-04
520472.83	4258980.71	37944.49661	0.30849	0.13064	0.29465	0.137	7.21E-04	7.24E-07	2.68E-07	6.92E-07	2.70E-07	7.2321E-04
520412.82	4259045.58	37923.47428	0.41662	0.13229	0.39641	0.14048	7.21E-04	9.78E-07	2.71E-07	9.31E-07	2.77E-07	7.2331E-04
519987.12	4258683.15	37918.47876	0.91914	1.11524	1.08577	1.03049	7.21E-04	2.16E-06	2.29E-06	2.55E-06	2.03E-06	7.2978E-04
520522.83	4258207.76	37891.40378	0.15781	0.2435	0.15973	0.25763	7.20E-04	3.70E-07	4.99E-07	3.75E-07	5.07E-07	7.2200E-04
520532.42	4258221.88	37881.07897	0.15648	0.23297	0.15744	0.24608	7.20E-04	3.67E-07	4.78E-07	3.70E-07	4.84E-07	7.2175E-04
520582.47	4258761.33	37880.50228	0.18331	0.13828	0.17583	0.1436	7.20E-04	4.30E-07	2.84E-07	4.13E-07	2.83E-07	7.2145E-04
519975.31	4258799.36	37875.21781	1.07534	0.58491	1.23465	0.56226	7.20E-04	2.52E-06	1.20E-06	2.90E-06	1.11E-06	7.2767E-04
520354.64	4258153.18	37859.45642	0.18905	0.60164	0.19498	0.6457	7.20E-04	4.44E-07	1.23E-06	4.58E-07	1.27E-06	7.2305E-04
520148.64	4258292.53	37832.61276	0.28094	4.14101	0.28892	4.77688	7.19E-04	6.60E-07	8.49E-06	6.78E-07	9.40E-06	7.3836E-04
520547.31	4258859.81	37825.09363	0.21874	0.13116	0.21033	0.13696	7.19E-04	5.14E-07	2.69E-07	4.94E-07	2.70E-07	7.2053E-04
520564.14	4258305.55	37819.12907	0.15499	0.20053	0.15452	0.20999	7.19E-04	3.64E-07	4.11E-07	3.63E-07	4.13E-07	7.2042E-04
520565.05	4258471.07	37812.9771	0.17061	0.18233	0.16694	0.19202	7.19E-04	4.01E-07	3.74E-07	3.92E-07	3.78E-07	7.2030E-04
520534.74	4258885.03	37800.94639	0.23168	0.13022	0.22266	0.13627	7.19E-04	5.44E-07	2.67E-07	5.23E-07	2.68E-07	7.2013E-04
520002.98	4258925.19	37789.73882	1.93743	0.36951	2.28789	0.36397	7.18E-04	4.55E-06	7.58E-07	5.37E-06	7.16E-07	7.2971E-04
520570.81	4258408.58	37767.65948	0.16286	0.18512	0.16035	0.19447	7.18E-04	3.82E-07	3.80E-07	3.76E-07	3.83E-07	7.1942E-04
520495.41	4258175.99	37747.65884	0.16159	0.27806	0.16524	0.29487	7.18E-04	3.79E-07	5.70E-07	3.88E-07	5.80E-07	7.1943E-04
520040.25	4258990.54	37737.96897	4.489	0.31886	6.1445	0.31012	7.17E-04	1.05E-05	6.54E-07	1.44E-05	6.10E-07	7.4356E-04
520014.87	4258950.08	37716.69445	2.44483	0.34608	2.97336	0.34058	7.17E-04	5.74E-06	7.10E-07	6.98E-06	6.70E-07	7.3103E-04
520513.42	4258193.72	37691.30541	0.15887	0.25472	0.16159	0.26982	7.16E-04	3.73E-07	5.22E-07	3.79E-07	5.31E-07	7.1825E-04
519975.82	4258752.35	37674.07665	0.97052	0.73448	1.12468	0.6943	7.16E-04	2.28E-06	1.51E-06	2.64E-06	1.37E-06	7.2391E-04
519997.12	4258646.05	37670.77618	0.90804	1.47593	1.0903	1.33903	7.16E-04	2.13E-06	3.03E-06	2.56E-06	2.64E-06	7.2641E-04
520029.65	4258560.18	37664.87291	0.88365	3.71682	1.08974	3.02367	7.16E-04	2.07E-06	7.62E-06	2.56E-06	5.95E-06	7.3415E-04
520295.85	4258172.99	37653.6389	0.20636	0.8853	0.21659	0.96544	7.16E-04	4.84E-07	1.82E-06	5.08E-07	1.90E-06	7.2044E-04
519974.62	4258773.58	37646.11176	1.00602	0.65922	1.16047	0.62782	7.16E-04	2.36E-06	1.35E-06	2.72E-06	1.24E-06	7.2326E-04
520559.2	4258283.4	37639.78333	0.15419	0.20672	0.15354	0.21615	7.15E-04	3.62E-07	4.24E-07	3.60E-07	4.25E-07	7.1704E-04
520463.8	4258994.45	37633.35988	0.32238	0.13023	0.30785	0.13671	7.15E-04	7.57E-07	2.67E-07	7.23E-07	2.69E-07	7.1736E-04
520217.38	4258222.75	37629.37098	0.23661	1.72136	0.24862	1.91857	7.15E-04	5.55E-07	3.53E-06	5.84E-07	3.78E-06	7.2371E-04
520276.24	4258182.93	37624.43587	0.21305	1.0251	0.22469	1.12349	7.15E-04	5.00E-07	2.10E-06	5.27E-07	2.21E-06	7.2051E-04
520547.5	4258248.36	37619.84578	0.15445	0.21804	0.154	0.22916	7.15E-04	3.63E-07	4.47E-07	3.62E-07	4.51E-07	7.1671E-04
520505.17	4258937.3	37554.66005	0.26515	0.12949	0.25393	0.13572	7.14E-04	6.22E-07	2.66E-07	5.96E-07	2.67E-07	7.1560E-04
520050.28	4259004.67	37552.07346	6.13684	0.31126	9.53998	0.30062	7.14E-04	1.44E-05	6.38E-07	2.24E-05	5.92E-07	7.5183E-04
520062.25	4258475.37	37545.72844	0.59768	16.78882	0.66597	8.8469	7.14E-04	1.40E-06	3.44E-05	1.56E-06	1.74E-05	7.6849E-04
519985.47	4258877.99	37525.38714	1.40187	0.42743	1.61166	0.41878	7.13E-04	3.29E-06	8.77E-07	3.78E-06	8.24E-07	7.2207E-04
520563.12	4258295.09	37497.81958	0.15415	0.20247	0.15358	0.21181	7.13E-04	3.62E-07	4.15E-07	3.61E-07	4.17E-07	7.1432E-04
520315.46	4258163.05	37492.93392	0.1995	0.77236	0.2081	0.83851	7.13E-04	4.68E-07	1.58E-06	4.89E-07	1.65E-06	7.1686E-04
519975.82	4258824.69	37453.49251	1.13136	0.52231	1.29654	0.50577	7.12E-04	2.66E-06	1.07E-06	3.04E-06	9.96E-07	7.1969E-04
520344.85	4258153.15	37440.5907	0.19069	0.63929	0.19727	0.68788	7.12E-04	4.48E-07	1.31E-06	4.63E-07	1.35E-06	7.1525E-04
520514.42	4258923.46	37436.22402	0.25424	0.12918	0.2437	0.13539	7.12E-04	5.97E-07	2.65E-07	5.72E-07	2.67E-07	7.1330E-04
520590.3	4258718.69	37394.10021	0.17441	0.14214	0.16744	0.14807	7.11E-04	4.09E-07	2.92E-07	3.93E-07	2.91E-07	7.1218E-04
520009.85	4258608.75	37378.97896	0.90013	2.06276	1.10405	1.81954	7.11E-04	2.11E-06	4.23E-06	2.59E-06	3.58E-06	7.2302E-04
520413.41	4258143.36	37346.16876	0.17429	0.4306	0.17855	0.45649	7.10E-04	4.09E-07	8.83E-07	4.19E-07	8.99E-07	7.1249E-04
520393.83	4258143.3	37343.84389	0.17829	0.47981	0.18267	0.51053	7.10E-04	4.19E-07	9.84E-07	4.29E-07	1.00E-06	7.1268E-04
520403.62	4258143.33	37335.16456	0.17623	0.45448	0.18056	0.48241	7.10E-04	4.14E-07	9.32E-07	4.24E-07	9.50E-07	7.1239E-04
520421.51	4259041.98	37332.24407	0.39834	0.13062	0.37933	0.13851	7.10E-04	9.35E-07	2.68E-07	8.91E-07	2.73E-07	7.1198E-04
520439.14	4259024.68	37331.61377	0.36423	0.12993	0.34743	0.13723	7.10E-04	8.55E-07	2.66E-07	8.16E-07	2.70E-07	7.1181E-04
520586.06	4258752.74	37318.74602	0.1801	0.11824	0.17271	0.14367	7.09E-04	4.23E-07	2.84E-07	4.05E-07	2.83E-07	7.1076E-04
520504.19	4258179.75	37296.05973	0.15958	0.26658	0.16288	0.28262	7.09E-04	3.75E-07	5.47E-07	3.82E-07	5.56E-07	7.1079E-04
520256.63	4258192.87	37280.95946	0.21909	1.20189	0.23164	1.32307	7.09E-04	5.14E-07	2.46E-06	5.44E-07	2.60E-06	7.1477E-04
520138.82	4258302.5	37258.42225	0.287	4.9384	0.29512	5.73274	7.08E-04	6.74E-07	1.01E-05	6.93E-07	1.13E-05	7.3099E-04
520558.12	4258272.93	37248.62788	0.15341	0.20823	0.15264	0.21788	7.08E-04	3.60E-07	4.27E-07	3.58E-07	4.29E-07	7.0960E-04
519987.32	4258888.75	37245.49185	1.45789	0.41106	1.67806	0.40342	7.08E-04	3.42E-06	8.43E-07	3.94E-06	7.94E-07	7.1697E-04
520423.19	4258143.39	37244.51713	0.17222	0.40836	0.17652	0.43237	7.08E-04	4.04E-07	8.38E-07	4.14E-07	8.51E-07	7.1046E-04
520384.04	4258143.27	37236.77884	0.18022	0.50711	0.18479	0.54085	7.08E-04	4.23E-07	1.04E-06	4.34E-07	1.06E-06	7.1077E-04
520099.48	4258362.38	37230.91037	0.34229	14.18533	0.36026	15.79597	7.08E-04	8.04E-07	2.91E-05	8.46E-07	3.11E-05	7.6953E-04
520454.9	4259008.14	37216.5438	0.3685	0.12954	0.3216	0.13627	7.07E-04	7.91E-07	2.66E-07	7.55E-07	2.68E-07	7.0950E-04
520026.07	4258974.69	37204.43612	3.12707	0.32583	3.94511	0.31942	7.07E-04	7.34E-06	6.68E-07	9.26E-06	6.29E-07	7.2500E-04
520523.87	4258909.54	37202.07261	0.24371	0.12883	0.23386	0.13497	7.07E-04	5.72E-07	2.64E-07	5.49E-07	2.66E-07	7.0880E-04
519979.79	4258858.39	37177.70756	1.25695	0.45699	1.44149	0.44599	7.07E-04	2.95E-06	9.37E-07	3.38E-06	8.78E-07	7.1483E-04
520570.76	4258434.32	37160.63871	0.16504	0.18264	0.16217	0.19188	7.06E-04	3.87E-07	3.75E-07	3.81E-07	3.78E-07	7.0788E-04
520227.2	4258212.78	37152.37825	0.23035	1.56504	0.24268	1.73711	7.06E-04	5.41E-07	3.21E-06	5.70E-07	3.42E-06	7.1394E-04
520591.37	4258692.17	37151.56989	0.17143	0.14589	0.16463	0.1518	7.06E-04	4.02E-07	2.99E-07	3.86E-07	2.99E-07	7.0757E-04
520568.64	4258454.63	37129.91221	0.16763	0.18181	0.16438	0.19125	7.06E-04	3.94E-07	3.73E-07	3.86E-07	3.76E-07	7.0730E-04
520004.49	4258935.8	37107.55027	2.00189	0.35649	2.37177	0.35133	7.05E-04	4.70E-06	7.31E-07	5.57E-06	6.92E-07	7.1704E-04
520560.71	4258837.22	37072.11137	0.20604	0.13118	0.1981	0.13667	7.05E-04	4.84E-07	2.69E-07	4.65E-07	2.69E-07	7.0616E-04
520374.25	4258143.24	37072.04989	0.18211	0.53643	0.18697	0.57369	7.05E-04	4.28E-07	1.10E-06	4.39E-07	1.13E-06	7.0777E-04
520432.98	4258143.42	37066.70948	0.1701	0.38749	0.17446	0.40992	7.05E-04	3.99E-07	7.95E-07	4.10E-07	8.07E-07	7.0689E-04
520468.93	4258154.65	37066.04003	0.16436	0.31993	0.1689	0.3384	7.05E-04	3.86E-07	6.56E-07	3.97E-07	6.66E-07	7.0666E-04
520460.21	4258150.92	37058.83867	0.16567	0.33501	0.17026	0.35422	7.04E-04	3.89E-07	6.87E-07	4.00E-07	6.97E-07	7.0659E-04
520564.28	4258828.71	37056.2589	0.20257	0.13181	0.19479	0.13721	7.04E-04	4.76E-07	2.70E-07	4.57E-07	2.70E-07	7.0585E-04
520083.42	4259043.59	37018.32714	14.37839	0.2941	21.73969	0.27703	7.04E-04	3.38E-05	6.03E-07	5.10E-05	5.45E-07	7.8959E-04
520490.69	4258963.31	37013.9385	0.28375	0.129	0.27154	0.13514	7.04E-04	6.66E-07	2.65E-07	6.37E-07	2.66E-07	7.0540E-04
520335.07	4258153.12	37011.50578	0.19232	0.68021	0.19957	0.73427	7.04E-04	4.52E-07	1.40E-06	4.69E-07	1.45E-06	7.0728E-04
520500.12	4258949.4	37009.24783	0.27162	0.12874	0.26004	0.13489	7.03E-04	6.38E-07	2.64E-07	6.10E-07	2.66E-07	7.0526E-04
520567.84	4258820.2	37004.67434	0.19915	0.13231	0.19148	0.13764	7.03E-04	4.68E-07	2.71E-07	4.50E-07	2.71E-07	7.0485E-04
520477.66	4258158.38	37003.09354	0.16294	0.3057	0.16732	0.32354	7.03E-04	3.83E-07	6.27E-07	3.93E-07	6.37E-07	7.0540E-04
520531.73	4258211.57	36966.38478	0.15526	0.23434	0.15672	0.24756	7.03E-04	3.65E-07	4.81E-07	3.68E-07	4.87E-07	7.0436E-04
520522.26	4258197.5	36960.95306	0.15652	0.24479	0.1588	0.25905	7.03E-04	3.67E-07	5.02E-07	3.73E-07	5.10E-07	7.0431E-04
520546.12	4258870.31	36960.54334	0.22056	0.12935	0.21206	0.13516	7.03E-04	5.18E-07	2.65E-07	4.98E-07	2.66E-07	7.0410E-04
520053.78	4259013.71	36960.15181	6.95352	0.3046	11.70104	0.29347	7.03E-04	1.63E-05	6.25E-07	2.75E-05	5.78E-07	7.4754E-04
520451.49	4258147.18	36946.50794	0.16681	0.35106	0.17138	0.37105	7.02E-04	3.92E-07	7.20E-07	4.02E-07	7.30E-07	7.0453E-04
520546.75	4258238.02	36931.83013	0.15347	0.21912	0.15333	0.23059	7.02E-04	3.60E-07	4.49E-07	3.60E-07	4.54E-07	7.0363E-04
520571.4	4258811.69	36914.58753	0.19578	0.13276	0.1882	0.13803	7.02E-04	4.60E-07	2.72E-07	4.42E-07	2.72E-07	7.0313E-04
520481.44	4258977.14	36905.35144	0.29641	0.12898	0.28355	0.13514	7.02E-04	6.96E-07	2.65E-07	6.66E-07	2.66E-07	7.0340E-04
520486.38	4258162.11	36901.42144	0.16147	0.29209	0.16554	0.30946	7.01E-04	3.79E-07	5.99E-07	3.89E-07	6.09E-07	7.0341E-04
520016.08	4258960.58	36896.12842	2.5177	0.33449	3.07033	0.32915	7.01E-04	5.91E-06	6.86E-07	7.21E-06	6.48E-07	7.1578E-04
519989.02	4258899.44	36869.66475	1.51106	0.39573	1.74263	0.38891	7.01E-04	3.55E-06	8.12E-07	4.09E-06	7.66E-07	7.1004E-04
520533.54	4258895.53	36853.69395	0.2335	0.12854	0.22438	0.13455	7.01E-04	5.48E-07	2.64E-07	5.27E-07	2.65E-07	7.0213E-04
520541.4	4258225.72	36830.06956	0.15387	0.22428	0.1543	0.23656	7.00E-04	3.61E-07	4.60E-07	3.62E-07	4.66E-07	7.0172E-04
520286.06	4258172.96	36798.92487	0.20699	0.95308	0.21801	1.04168	6.99E-04	4.86E-07	1.95E-06	5.12E-07	2.05E-06	7.0448E-04
520093.34	4259053.57	36798.13068	13.89992	0.28916	12.78968	0.27086	6.99E-04	3.26E-05	5.93E-07	3.00E-05	5.33E-07	7.6325E-04
520557.14	4258262.49	36794.70173	0.1526	0.20949	0.1518	0.21945	6.99E-04	3.58E-07	4.30E-07	3.56E-07	4.32E-07	7.0098E-04
520574.96	4258803.19	36783.59665	0.19245	0.13322	0.18496	0.1384	6.99E-04	4.52E-07	2.73E-07	4.34E-07	2.72E-07	7.0062E-04
520442.77	4258143.45	36768.9607	0.16786	0.36803	0.17231	0.38897	6.99E-04	3.94E-07	7.55E-07	4.05E-07	7.66E-07	7.0123E-04
520588.66	4258744.15	36763.15981	0.17705	0.1382	0.1698	0.14375	6.99E-04	4.16E-07	2.83E-07	3.99E-07	2.83E-07	7.0018E-04
520305.67	4258163.02	36733.65246	0.20041	0.82749	0.20998	0.89998	6.98E-04	4.70E-07	1.70E-06	4.93E-07	1.77E-06	7.0267E-04
520512.96	4258183.51	36719.95302	0.15743	0.25601	0.16039	0.2712	6.98E-04	3.70E-07	5.25E-07	3.77E-07	5.34E-07	6.9978E-04
520031.14	4258986.78	36715.96918	3.53573	0.31636	4.55676	0.30938	6.98E-04	8.30E-06	6.49E-07	1.07E-05	6.09E-07	7.1816E-04
520430.19	4259038.39	36687.67501	0.38115	0.12906	0.36335	0.13665	6.97E-04	8.95E-07	2.65E-07	8.53E-07	2.69E-07	6.9965E-04
520364.46	4258143.21	36666.25703	0.18357	0.56881	0.18909	0.60904	6.97E-04	4.31E-07	1.17E-06	4.44E-07	1.20E-06	7.0020E-04
520472.35	4258990.91	36663.35954	0.30966	0.12853	0.29592	0.13479	6.97E-04	7.27E-07	2.64E-07	6.95E-07	2.65E-07	6.9885E-04
520041.24	4259000.94	36662.78451	4.63228	0.30871	6.37893	0.30011	6.97E-04	1.09E-05	6.33E-07	1.50E-05	5.91E-07	7.2397E-04
520237.02	4258202.81	36654.70058	0.22432	1.4291	0.23672	1.58129	6.97E-04	5.27E-07	2.93E-06	5.56E-07	3.11E-06	7.0387E-04
520495.1	4258165.85	36627.48183	0.15976	0.2796	0.16355	0.29628	6.96E-04	3.75E-07	5.73E-07	3.84E-07	5.83E-07	6.9814E-04
519987.12	4258673.87	36621.50038	0.88026	1.16534	1.03724	1.07484	6.96E-04	2.07E-06	2.39E-06	2.44E-06	2.12E-06	7.0512E-04
519971.61	4258790.42	36619.50343	0.99867	0.60154	1.14354	0.57611	6.96E-04	2.34E-06	1.23E-06	2.68E-06	1.13E-06	7.0347E-04
520578.53	4258794.68	36607.76583	0.18918	0.13367	0.18179	0.13878	6.96E-04	4.44E-07	2.74E-07	4.27E-07	2.73E-07	6.9727E-04
520109.33	4258342.41	36590.57424	0.31945	0.98845	0.33266	11.84693	6.96E-04	7.50E-07	2.05E-05	7.81E-07	2.33E-05	7.4086E-04
519976.16	4258849.63	36589.43558	1.17784	0.46952	1.34702	0.45727	6.95E-04	2.77E-06	9.63E-07	3.16E-06	9.00E-07	7.0329E-04
520266.45	4258182.9	36580.33458	0.21304	1.11042	0.22515	1.21897	6.95E-04	5.00E-07	2.28E-06	5.29E-07	2.40E-06	7.0103E-04
520447.88	4259021.06	36542.18831	0.3489	0.12835	0.33302	0.13132	6.95E-04	8.19E-07	2.63E-07	7.82E-07	2.66E-07	6.9673E-04
520129.01	4258312.47	36520.58074	0.29287	0.62615	0.3016	7.05287	6.94E-04	6.88E-07	1.24E-05	7.08E-07	1.39E-05	7.2183E-04
520568.33	4258479.69	36517.38266	0.16948	0.17925	0.16543	0.18876	6.94E-04	3.98E-07	3.68E-07	3.88E-07	3.72E-07	6.9565E-04
519972.15	4258815.84	36512.44585	1.05607	0.53702	1.20671	0.51844	6.94E-04	2.48E-06	1.10E-06	2.83E-06	1.02E-06	7.0147E-04
520593.93	4258710	36501.77592	0.17151	0.142	0.16471	0.14788	6.94E-04	4.03E-07	2.91E-07	3.87E-07	2.91E-07	6.9520E-04
520325.28	4258153.08	36469.21349	0.19368	0.72527	0.20172	0.78507	6.93E-04	4.55E-07	1.49E-06	4.74E-07	1.55E-06	6.9717E-04
519990.57	4258910.07	36410.27648	1.56148	0.38113	1.80398	0.37502	6.93E-04	3.67E-06	7.82E-07	4.24E-06	7.38E-07	7.0151E-04
520582.09	4258786.17	36386.11647	0.18597	0.13409	0.17868	0.13913	6.92E-04	4.37E-07	2.75E-07	4.19E-07	2.74E-07	6.9304E-04
520005.88	4258946.37	36385.09125	2.06374	0.3442	2.45218	0.33934	6.92E-04	4.84E-06	7.06E-07	5.76E-06	6.68E-07	7.0359E-04
520049.44	4258511.61	36364.17505	0.73225	7.76912	0.83922	5.59261	6.91E-04	1.72E-06	1.59E-05	1.97E-06	1.10E-05	7.2185E-04
520543.46	4258881.42	36360.81749	0.2236	0.12816	0.2151	0.13398	6.91E-04	5.25E-07	2.63E-07	5.05E-07	2.64E-07	6.9271E-04
520513.62	4258933.8	36349.13744	0.25566	0.12742	0.24504	0.1335	6.91E-04	6.00E-07	2.61E-07	5.75E-07	2.63E-07	6.9263E-04
520178.14	4258252.63	36339.57069	0.25137	2.69428	0.25967	3.04777	6.91E-04	5.90E-07	5.53E-06	6.10E-07	6.00E-06	7.0347E-04
520187.96	4258422.66	36335.28894	0.24562	2.38407	0.25465	2.68541	6.91E-04	5.77E-07	4.89E-06	5.98E-07	5.29E-06	7.0202E-04
520463.4	4259004.63	36334.20089	0.32342	0.128	0.30902	0.13444	6.91E-04	7.59E-07	2.63E-07	7.25E-07	2.65E-07	6.9266E-04
520555.76	4258856.31	36317.91984	0.21148	0.12912	0.20348	0.13468	6.90E-04	4.96E-07	2.65E-07	4.78E-07	2.65E-07	6.9184E-04
520556.25	4258252.1	36273.72237	0.15173	0.21061	0.15104	0.2209	6.89E-04	3.56E-07	4.32E-07	3.55E-07	4.35E-07	6.9108E-04
520354.67	4258143.18	36263.23952	0.18507	0.60358	0.19125	0.64755	6.89E-04	4.34E-07	1.24E-06	4.49E-07	1.27E-06	6.9269E-04
520503.82	4258168.58	36239.96143	0.1579	0.26805	0.16139	0.28401	6.89E-04	3.71E-07	5.50E-07	3.79E-07	5.59E-07	6.9071E-04
520168.32	4258262.6	36237.90039	0.25713	3.07377	0.26475	3.49526	6.89E-04	6.04E-07	6.30E-06	6.22E-07	6.88E-06	7.0323E-04
520593.26	4258735.56	36235.28018	0.17418	0.13829	0.16713	0.14392	6.89E-04	4.09E-07	2.84E-07	3.92E-07	2.83E-07	6.9014E-04
519975.25	4258726.86	36224.10129	0.89293	0.82688	1.03096	0.77652	6.89E-04	2.10E-06	1.70E-06	2.42E-06	1.53E-06	6.9630E-04
520197.78	4258232.69	36217.72564	0.23987	2.12702	0.24961	2.38616	6.88E-04	5.63E-07	4.36E-06	5.86E-07	4.70E-06	6.9864E-04
519978.13	4258709.69	36209.52903	0.88018	0.91397	1.02157	0.85402	6.88E-04	2.07E-06	1.87E-06	2.40E-06	1.68E-06	6.9630E-04
520522.93	4258919.94	36180.3681	0.24525	0.12712	0.23532	0.13316	6.88E-04	5.76E-07	2.61E-07	5.52E-07	2.62E-07	6.8937E-04
519993.84	4258921.41	36178.52397	1.65809	0.36773	1.92496	0.36223	6.88E-04	3.89E-06	7.54E-07	4.52E-06	7.13E-07	6.9757E-04
520531.1	4258201.28	36158.26239	0.15414	0.23546	0.15594	0.24894	6.87E-04	3.62E-07	4.83E-07	3.66E-07	4.90E-07	6.8900E-04
520585.65	4258777.66	36110.91993	0.18283	0.13444	0.17562	0.13945	6.86E-04	4.29E-07	2.76E-07	4.12E-07	2.75E-07	6.8780E-04
520019.73	4258579.62	36088.65605	0.87023	2.76919	1.08263	2.34707	6.86E-04	2.04E-06	5.68E-06	2.54E-06	4.62E-06	7.0086E-04
520246.84	4258192.84	36080.60981	1.3108	0.33871	1.23071	1.44547	6.86E-04	5.13E-07	2.69E-06	5.42E-07	2.85E-06	6.9242E-04
520017.21	4258971.04	36078.09097	2.58713	0.32358	3.16187	0.31836	6.86E-04	6.07E-06	6.64E-07

520217.41	4258212.75	35661.03782	0.2834	1.72856	0.23934	1.92314	6.78E-04	5.36E-07	3.55E-06	5.62E-07	3.79E-06	6.8628E-04
520022.04	4258983.02	35660.93825	2.8712	0.31413	3.56282	0.30853	6.78E-04	6.74E-06	6.44E-07	8.36E-06	6.07E-07	6.9421E-04
520451.78	4258137.29	35656.2261	0.16416	0.35213	0.16855	0.37171	6.78E-04	3.85E-07	7.22E-07	3.96E-07	7.32E-07	6.8000E-04
520007.17	4258956.89	35655.82157	2.12382	0.33263	2.53022	0.328	6.78E-04	4.99E-06	6.82E-07	5.94E-06	6.46E-07	6.9001E-04
520148.68	4258282.53	35650.21635	0.26854	4.15199	0.27531	4.7883	6.78E-04	6.30E-07	8.52E-06	6.46E-07	9.43E-06	6.9686E-04
520567.01	4258276.73	35628.2362	0.15056	0.20101	0.14981	0.21004	6.77E-04	3.53E-07	4.12E-07	3.52E-07	4.13E-07	6.7876E-04
519995.42	4258932.06	35614.21961	1.71291	0.35478	1.99369	0.34977	6.77E-04	4.02E-06	7.28E-07	4.68E-06	6.89E-07	6.8708E-04
520043.88	4259013.73	35588.45923	5.02612	0.29792	7.08623	0.28918	6.76E-04	1.18E-05	6.11E-07	1.66E-05	5.69E-07	7.0609E-04
520119.19	4258322.44	35581.80445	0.29834	7.59149	0.30829	8.959	6.76E-04	7.00E-07	1.56E-05	7.24E-07	1.76E-05	7.1098E-04
519999.93	4258628.19	35572.95385	0.85311	1.64747	1.02443	1.48419	6.76E-04	2.00E-06	3.38E-06	2.41E-06	2.92E-06	6.8688E-04
520554.5	4258866.84	35552.52068	0.21329	0.12741	0.20524	0.13299	6.76E-04	5.01E-07	2.61E-07	4.82E-07	2.62E-07	6.7729E-04
520597.57	4258701.32	35542.86902	0.16868	0.14192	0.16205	0.14768	6.76E-04	3.96E-07	2.91E-07	3.80E-07	2.91E-07	6.7696E-04
520596.85	4258726.96	35537.25384	0.1713	0.13824	0.16446	0.14392	6.75E-04	4.02E-07	2.84E-07	3.86E-07	2.83E-07	6.7685E-04
520542.18	4258891.95	35516.12541	0.22539	0.12657	0.21686	0.13236	6.75E-04	5.29E-07	2.60E-07	5.09E-07	2.61E-07	6.7666E-04
520374.28	4258133.24	35501.76525	0.17836	0.53839	0.18349	0.57518	6.75E-04	4.19E-07	1.10E-06	4.31E-07	1.13E-06	6.7791E-04
520093.77	4259064.4	35489.46738	13.63833	0.27993	12.53511	0.26236	6.75E-04	3.20E-05	5.74E-07	2.94E-05	5.16E-07	7.3713E-04
520496.67	4258156.51	35486.91654	0.15753	0.27845	0.16136	0.29484	6.75E-04	3.70E-07	5.71E-07	3.79E-07	5.80E-07	6.7644E-04
519968.48	4258807	35486.2011	0.98676	0.55136	1.1211	0.53081	6.75E-04	2.32E-06	1.13E-06	2.63E-06	1.04E-06	6.8165E-04
520256.66	4258182.87	35479.25287	0.21257	1.20675	0.22473	1.32675	6.74E-04	4.99E-07	2.47E-06	5.28E-07	2.61E-06	6.8051E-04
520442.8	4258133.45	35471.57332	0.16515	0.36955	0.16938	0.38018	6.74E-04	3.88E-07	7.58E-07	3.98E-07	7.68E-07	6.7656E-04
520471.9	4259001.11	35433.15533	0.31073	0.12643	0.29712	0.13261	6.74E-04	7.29E-07	2.59E-07	6.98E-07	2.61E-07	6.7547E-04
520335.1	4258143.12	35426.79034	0.18805	0.6824	0.19561	0.73629	6.73E-04	4.41E-07	1.40E-06	4.59E-07	1.45E-06	6.7715E-04
520592.77	4258760.64	35377.72191	0.17675	0.13471	0.16968	0.13982	6.72E-04	4.15E-07	2.76E-07	3.98E-07	2.75E-07	6.7383E-04
520039.52	4258531.05	35349.10545	0.7784	5.2708	0.91542	4.08555	6.72E-04	1.83E-06	1.08E-05	2.15E-06	8.04E-06	6.9475E-04
519978.31	4258885.03	35307.23942	1.26851	0.40862	1.44431	0.40061	6.71E-04	2.98E-06	8.38E-07	3.39E-06	7.89E-07	6.7912E-04
520530.52	4258191.02	35288.73782	0.15287	0.23673	0.15507	0.25026	6.71E-04	3.59E-07	4.86E-07	3.64E-07	4.93E-07	6.7248E-04
520227.23	4258202.78	35275.71592	0.22268	1.57116	0.23408	1.74173	6.71E-04	5.23E-07	3.22E-06	5.50E-07	3.43E-06	6.7825E-04
520565.95	4258266.27	35273.31495	0.1498	0.20243	0.14898	0.21165	6.70E-04	3.52E-07	4.15E-07	3.50E-07	4.17E-07	6.7202E-04
520447.56	4259031.2	35261.50799	0.3497	0.12602	0.33396	0.13298	6.70E-04	8.21E-07	2.58E-07	7.84E-07	2.62E-07	6.7238E-04
520539.94	4258205.07	35245.61877	0.15166	0.22681	0.15303	0.23942	6.70E-04	3.56E-07	4.65E-07	3.59E-07	4.71E-07	6.7161E-04
519967.9	4258781.48	35226.05062	0.9253	0.61784	1.05795	0.5894	6.70E-04	2.17E-06	1.27E-06	2.48E-06	1.16E-06	6.7667E-04
520522.07	4258930.3	35174.58071	0.24664	0.12543	0.23664	0.13136	6.69E-04	5.79E-07	2.57E-07	5.56E-07	2.59E-07	6.7026E-04
520364.49	4258133.21	35170.36814	0.17986	0.57049	0.18558	0.61067	6.69E-04	4.22E-07	1.17E-06	4.36E-07	1.20E-06	6.7176E-04
520521.26	4258177.04	35168.43631	0.15384	0.24725	0.15666	0.2617	6.68E-04	3.61E-07	5.07E-07	3.68E-07	5.15E-07	6.7024E-04
519987.12	4258664.6	35154.70199	0.83913	1.21556	0.98833	1.11838	6.68E-04	1.97E-06	2.49E-06	2.32E-06	2.20E-06	6.7721E-04
520505.64	4258160.35	35125.64432	0.15573	0.26663	0.1593	0.28231	6.68E-04	3.66E-07	5.47E-07	3.74E-07	5.56E-07	6.6952E-04
519968.89	4258832.1	35119.68409	1.03361	0.4954	1.1763	0.48	6.68E-04	2.43E-06	1.02E-06	2.76E-06	9.45E-07	6.7471E-04
520286.09	4258162.96	35111.56714	0.20152	0.95668	0.21259	1.04457	6.67E-04	4.73E-07	1.96E-06	4.99E-07	2.06E-06	6.7240E-04
520305.7	4258153.02	35109.72263	0.19553	0.83037	0.20531	0.90253	6.67E-04	4.59E-07	1.70E-06	4.82E-07	1.78E-06	6.7179E-04
520138.86	4258292.5	35106.08594	0.27398	4.95029	0.28093	5.74981	6.67E-04	6.43E-07	1.02E-05	6.60E-07	1.13E-05	6.9008E-04
519980.09	4258895.75	35066.73686	1.31575	0.39356	1.49988	0.38645	6.67E-04	3.09E-06	8.07E-07	3.52E-06	7.61E-07	6.7473E-04
520549.55	4258219.19	35030.8955	0.15026	0.21735	0.15067	0.22906	6.66E-04	3.53E-07	4.46E-07	3.54E-07	4.51E-07	6.6748E-04
519996.89	4258942.66	35027.68928	1.76652	0.34258	2.06134	0.33797	6.66E-04	4.15E-06	7.03E-07	4.84E-06	6.65E-07	6.7617E-04
520099.51	4258352.38	34964.48815	0.32378	14.21948	0.33988	15.96441	6.65E-04	7.60E-07	2.92E-05	7.98E-07	3.14E-05	7.2676E-04
520552.17	4258877.81	34964.33822	0.21592	0.12614	0.20788	0.13174	6.65E-04	5.07E-07	2.59E-07	4.88E-07	2.59E-07	6.6612E-04
520531.44	4258916.42	34960.78408	0.23672	0.12515	0.22738	0.13102	6.65E-04	5.56E-07	2.57E-07	5.34E-07	2.58E-07	6.6615E-04
519972.59	4258865.13	34939.73014	1.14218	0.43619	1.29637	0.42605	6.64E-04	2.68E-06	8.95E-07	3.04E-06	8.39E-07	6.7160E-04
520008.36	4258967.38	34928.5309	2.18133	0.32173	2.60394	0.31729	6.64E-04	5.12E-06	6.60E-07	6.11E-06	6.25E-07	6.7645E-04
520596.34	4258752.14	34910.48656	0.17382	0.1347	0.16686	0.13992	6.64E-04	4.08E-07	2.76E-07	3.92E-07	2.75E-07	6.6494E-04
520325.31	4258143.08	34893.68678	0.18925	0.72766	0.1976	0.78717	6.63E-04	4.44E-07	1.49E-06	4.64E-07	1.55E-06	6.6722E-04
520567.74	4258844.38	34890.65845	0.20123	0.12752	0.19366	0.1328	6.63E-04	4.72E-07	2.62E-07	4.55E-07	2.61E-07	6.6466E-04
520571.27	4258835.94	34880.5251	0.19795	0.12807	0.19051	0.13328	6.63E-04	4.65E-07	2.63E-07	4.47E-07	2.62E-07	6.6445E-04
520564.99	4258255.84	34864.43396	0.149	0.20364	0.1482	0.21312	6.63E-04	3.50E-07	4.18E-07	3.48E-07	4.20E-07	6.6424E-04
520465.36	4259013.82	34864.05565	0.33079	0.12533	0.3067	0.13167	6.63E-04	7.53E-07	2.57E-07	7.20E-07	2.59E-07	6.6469E-04
520266.48	4258172.9	34858.05149	0.20697	1.11473	0.21882	1.2223	6.63E-04	4.86E-07	2.29E-06	5.14E-07	2.41E-06	6.6828E-04
520574.8	4258827.51	34839.02641	0.1947	0.12866	0.18741	0.13379	6.62E-04	4.57E-07	2.64E-07	4.40E-07	2.63E-07	6.6365E-04
520237.05	4258192.81	34826.56462	0.2171	1.43488	0.22874	1.58516	6.62E-04	5.10E-07	2.94E-06	5.37E-07	3.12E-06	6.6910E-04
520354.71	4258133.18	34820.99095	0.18134	0.60518	0.18771	0.64941	6.62E-04	4.26E-07	1.24E-06	4.41E-07	1.28E-06	6.6527E-04
520498.65	4258970.02	34786.56512	0.27435	0.12516	0.26277	0.13103	6.61E-04	6.44E-07	2.57E-07	6.17E-07	2.58E-07	6.6301E-04
520023.17	4258993.48	34778.22622	2.9549	0.30414	3.67183	0.29863	6.61E-04	6.94E-06	6.24E-07	8.62E-06	5.88E-07	6.7784E-04
520508.02	4258956.13	34777.05519	0.26288	0.12493	0.2519	0.13081	6.61E-04	6.17E-07	2.56E-07	5.91E-07	2.57E-07	6.6277E-04
520578.33	4258819.08	34763.4806	0.19149	0.12904	0.18426	0.13412	6.61E-04	4.50E-07	2.65E-07	4.33E-07	2.64E-07	6.6220E-04
519981.72	4258906.42	34735.82745	1.36061	0.37925	1.55312	0.37291	6.60E-04	3.19E-06	7.78E-07	3.65E-06	7.34E-07	6.6862E-04
520054.23	4259033.71	34715.59983	7.13321	0.28614	12.12279	0.27579	6.60E-04	1.67E-05	5.87E-07	2.85E-05	5.43E-07	7.0622E-04
520489.45	4258983.84	34708.16886	0.28627	0.12521	0.27415	0.13109	6.60E-04	6.72E-07	2.57E-07	6.44E-07	2.58E-07	6.6157E-04
520600.45	4258718.37	34686.27353	0.16841	0.13798	0.16173	0.14368	6.59E-04	3.95E-07	2.83E-07	3.80E-07	2.83E-07	6.6066E-04
520008.81	4258599.06	34680.56553	0.83797	2.13145	1.02482	1.85578	6.59E-04	1.97E-06	4.37E-06	2.41E-06	3.69E-06	6.7165E-04
520469.58	4258134.9	34671.47207	0.15959	0.32175	0.16391	0.33952	6.59E-04	3.75E-07	6.60E-07	3.85E-07	6.68E-07	6.6113E-04
520514.62	4258164.19	34671.36908	0.15382	0.25555	0.15707	0.27053	6.59E-04	3.61E-07	5.24E-07	3.69E-07	5.33E-07	6.6083E-04
520478.5	4258138.72	34642.18421	0.15834	0.3072	0.16266	0.32429	6.58E-04	3.72E-07	6.30E-07	3.82E-07	6.38E-07	6.6051E-04
520541.01	4258902.44	34640.47266	0.22708	0.12491	0.21841	0.13066	6.58E-04	5.33E-07	2.56E-07	5.13E-07	2.57E-07	6.6001E-04
520487.41	4258142.53	34606.63606	0.1571	0.29326	0.16122	0.30995	6.58E-04	3.69E-07	6.01E-07	3.78E-07	6.10E-07	6.5977E-04
520581.86	4258810.64	34592.64048	0.18826	0.12942	0.1811	0.13443	6.58E-04	4.42E-07	2.65E-07	4.25E-07	2.65E-07	6.5894E-04
519984.69	4258917.64	34589.21604	1.43502	0.36598	1.64352	0.36034	6.57E-04	3.37E-06	7.51E-07	3.86E-06	7.09E-07	6.6617E-04
520460.66	4258131.08	34582.06525	0.16064	0.33727	0.16492	0.3557	6.57E-04	3.77E-07	6.92E-07	3.87E-07	7.00E-07	6.5950E-04
520012.93	4258979.26	34573.43177	2.38653	0.31215	2.88087	0.30755	6.57E-04	5.60E-06	6.40E-07	6.76E-06	6.05E-07	6.7079E-04
520423.26	4258123.39	34552.6581	0.16634	0.41128	0.17026	0.43487	6.57E-04	3.91E-07	8.44E-07	4.00E-07	8.56E-07	6.5927E-04
520413.47	4258123.36	34549.10452	0.16807	0.43365	0.17212	0.45902	6.57E-04	3.95E-07	8.89E-07	4.04E-07	9.04E-07	6.5931E-04
520601.2	4258692.64	34531.60767	0.16595	0.14194	0.15943	0.14744	6.56E-04	3.90E-07	2.91E-07	3.74E-07	2.90E-07	6.5773E-04
520480.39	4258997.59	34529.93402	0.29872	0.12491	0.28596	0.13088	6.56E-04	7.01E-07	2.56E-07	6.71E-07	2.58E-07	6.5824E-04
520575.13	4258471.66	34515.14608	0.16556	0.17597	0.16169	0.18515	6.56E-04	3.89E-07	3.61E-07	3.80E-07	3.64E-07	6.5756E-04
520529.98	4258180.78	34513.32992	0.15169	0.23779	0.15413	0.2515	6.56E-04	3.56E-07	4.88E-07	3.62E-07	4.95E-07	6.5774E-04
520403.68	4258123.33	34508.28209	0.16981	0.45747	0.17405	0.48505	6.56E-04	3.99E-07	9.38E-07	4.09E-07	9.55E-07	6.5864E-04
520083.87	4259064.41	34497.15997	14.75429	0.27595	20.90457	0.26026	6.56E-04	3.46E-05	5.66E-07	4.91E-05	5.12E-07	7.4052E-04
520456.24	4259027.6	34494.96511	0.33532	0.12455	0.32047	0.13119	6.56E-04	7.87E-07	2.55E-07	7.52E-07	2.58E-07	6.5774E-04
520043.9	4259023.73	34493.42178	5.04856	0.28863	7.10193	0.28022	6.56E-04	1.19E-05	5.92E-07	1.67E-05	5.52E-07	6.8533E-04
520539.3	4258194.78	34492.67649	0.15056	0.22791	0.15231	0.24069	6.56E-04	3.53E-07	4.67E-07	3.58E-07	4.74E-07	6.5730E-04
520433.05	4258123.42	34455.35009	0.16449	0.39037	0.16839	0.41232	6.55E-04	3.86E-07	8.01E-07	3.95E-07	8.12E-07	6.5733E-04
520496.33	4258146.35	34441.52645	0.15565	0.28005	0.15955	0.29623	6.55E-04	3.65E-07	5.74E-07	3.75E-07	5.83E-07	6.5657E-04
520451.75	4258127.27	34437.32017	0.1616	0.35364	0.16577	0.37291	6.55E-04	3.79E-07	7.25E-07	3.89E-07	7.34E-07	6.5682E-04
520187.99	4258232.66	34415.9991	0.23632	2.3914	0.2441	2.69216	6.54E-04	5.55E-07	4.90E-06	5.73E-07	5.30E-06	6.6552E-04
520564.11	4258245.45	34406.75445	0.14819	0.20469	0.1475	0.21449	6.54E-04	3.48E-07	4.20E-07	3.46E-07	4.22E-07	6.5555E-04
520391.89	4258123.3	34401.60782	0.17149	0.483	0.17602	0.5131	6.54E-04	4.03E-07	9.91E-07	4.13E-07	1.01E-06	6.5673E-04
520344.92	4258133.15	34397.77248	0.18268	0.64306	0.18978	0.69169	6.54E-04	4.29E-07	1.32E-06	4.46E-07	1.36E-06	6.5739E-04
520178.17	4258242.63	34397.09198	0.24155	2.70194	0.2486	3.05586	6.54E-04	5.67E-07	5.54E-06	5.84E-07	6.02E-06	6.6653E-04
519998.25	4258953.21	34388.83808	1.81754	0.33103	2.12565	0.32675	6.54E-04	4.27E-06	6.79E-07	4.99E-06	6.43E-07	6.6425E-04
520129.04	4258302.47	34388.44548	0.27916	6.04277	0.28681	7.06575	6.54E-04	6.55E-07	1.24E-05	6.73E-07	1.39E-05	6.8129E-04
520599.9	4258743.63	34379.97448	0.17097	0.13472	0.16417	0.14003	6.54E-04	4.01E-07	2.76E-07	3.85E-07	2.76E-07	6.5484E-04
520197.81	4258222.69	34342.25139	0.23111	2.13369	0.23962	2.39238	6.53E-04	5.43E-07	4.38E-06	5.63E-07	4.71E-06	6.6297E-04
519968.81	4258856.03	34337.45934	1.06956	0.44823	1.21251	0.43679	6.53E-04	2.51E-06	9.19E-07	2.85E-06	8.60E-07	6.5983E-04
519964.81	4258798.15	34335.24087	0.91996	0.56598	1.04223	0.54303	6.53E-04	2.16E-06	1.16E-06	2.45E-06	1.07E-06	6.5949E-04
520295.91	4258152.99	34328.11068	0.19599	0.89179	0.20653	0.9708	6.53E-04	4.60E-07	1.83E-06	4.85E-07	1.91E-06	6.5720E-04
520246.87	4258182.84	34326.72262	0.21162	1.31594	0.22336	1.44902	6.52E-04	4.97E-07	2.70E-06	5.24E-07	2.85E-06	6.5906E-04
520588.93	4258793.77	34324.52412	0.18215	0.13036	0.17518	0.13521	6.52E-04	4.28E-07	2.67E-07	4.11E-07	2.66E-07	6.5382E-04
520548.78	4258208.85	34301.10759	0.1492	0.21862	0.1501	0.23045	6.52E-04	3.50E-07	4.48E-07	3.52E-07	4.54E-07	6.5361E-04
520093.79	4259074.4	34277.5253	13.54486	0.27165	12.4973	0.25478	6.52E-04	3.18E-05	5.57E-07	2.93E-05	5.02E-07	7.1375E-04
520384.1	4258123.27	34273.71355	0.1732	0.51037	0.17808	0.54355	6.51E-04	4.07E-07	1.05E-06	4.18E-07	1.07E-06	6.5442E-04
520168.35	4258252.6	34272.57464	0.24676	3.08215	0.25317	3.50454	6.51E-04	5.79E-07	6.32E-06	5.94E-07	6.90E-06	6.6585E-04
520315.52	4258143.05	34270.54781	0.19015	0.77769	0.19933	0.84307	6.51E-04	4.46E-07	1.59E-06	4.68E-07	1.66E-06	6.5559E-04
519967.12	4258755.49	34268.68906	0.85556	0.69275	0.9797	0.65548	6.51E-04	2.01E-06	1.42E-06	2.30E-06	1.29E-06	6.5841E-04
519965.26	4258823.34	34261.05871	0.96936	0.50834	1.09827	0.49125	6.51E-04	2.28E-06	1.04E-06	2.58E-06	9.67E-07	6.5810E-04
520442.83	4258123.45	34257.20785	0.16252	0.37085	0.16649	0.39129	6.51E-04	3.82E-07	7.61E-07	3.91E-07	7.70E-07	6.5347E-04
520577.15	4258291.09	34208.79956	0.14846	0.19222	0.14786	0.20082	6.50E-04	3.49E-07	3.94E-07	3.47E-07	3.95E-07	6.5173E-04
520276.3	4258162.93	34205.82558	0.20152	1.03303	0.21299	1.12969	6.50E-04	4.73E-07	2.12E-06	5.00E-07	2.22E-06	6.5551E-04
520550.82	4258888.38	34200.62453	0.21771	0.12457	0.20963	0.13016	6.50E-04	5.11E-07	2.55E-07	4.92E-07	2.56E-07	6.5161E-04
520562.88	4258863.37	34192.35613	0.20635	0.12547	0.1987	0.13083	6.50E-04	4.84E-07	2.57E-07	4.66E-07	2.58E-07	6.5140E-04
520029.6	4258550.48	34145.60819	0.80449	3.79827	0.97158	3.09311	6.49E-04	1.89E-06	7.79E-06	2.28E-06	6.09E-06	6.6709E-04
520207.63	4258212.72	34143.93513	0.22581	1.91803	0.23509	2.14055	6.49E-04	5.30E-07	3.93E-06	5.52E-07	4.21E-06	6.5824E-04
520505.24	4258150.16	34137.76433	0.154	0.26818	0.15769	0.2837	6.49E-04	3.62E-07	5.50E-07	3.70E-07	5.58E-07	6.5074E-04
519986.36	4258828.32	34133.56662	1.48307	0.35318	1.70185	0.3481	6.49E-04	3.48E-06	7.24E-07	4.00E-06	6.85E-07	6.5770E-04
520523.6	4258168.03	34110.39649	0.15178	0.24532	0.1547	0.25956	6.48E-04	3.56E-07	5.03E-07	3.63E-07	5.11E-07	6.5011E-04
520592.46	4258785.34	34095.4183	0.17915	0.13079	0.17229	0.13559	6.48E-04	4.21E-07	2.68E-07	4.04E-07	2.67E-07	6.4945E-04
520374.31	4258123.24	34035.77436	0.17474	0.53999	0.18013	0.57638	6.47E-04	4.10E-07	1.11E-06	4.23E-07	1.13E-06	6.5003E-04
520530.51	4258926.8	34034.01388	0.23811	0.12352	0.22871	0.12929	6.47E-04	5.59E-07	2.53E-07	5.37E-07	2.55E-07	6.4835E-04
520158.53	4258262.56	34028.75283	0.25192	3.5568	0.25786	4.06928	6.47E-04	5.91E-07	7.29E-06	6.05E-07	8.01E-06	6.6333E-04
520575.9	4258280.54	34025.79737	0.14778	0.194	0.14706	0.20257	6.47E-04	3.47E-07	3.98E-07	3.45E-07	3.99E-07	6.4826E-04
520581.53	4258312.99	33996.86927	0.14914	0.18688	0.14863	0.19575	6.46E-04	3.50E-07	3.83E-07	3.49E-07	3.85E-07	6.4769E-04
520474.1	4259010.2	33992.77608	0.30789	0.12386	0.29467	0.12992	6.46E-04	7.23E-07	2.54E-07	6.92E-07	2.56E-07	6.4807E-04
519971.62	4258718.12	33955.11386	0.81729	0.8406	0.93885	0.78869	6.45E-04	1.92E-06	1.72E-06	2.20E-06	1.55E-06	6.5282E-04
520558.45	4258223	33946.72451	0.14772	0.20965	0.14767	0.22055	6.45E-04	3.47E-07	4.30E-07	3.47E-07	4.34E-07	6.4682E-04
520335.13	4258133.12	33942.76126	0.18392	0.68442	0.19177	0.73812	6.45E-04	4.32E-07	1.40E-06	4.50E-07	1.45E-06	6.4893E-04
520580.35	4258302.47	33935.39188	0.14848	0.18882	0.14798	0.19749	6.45E-04	3.49E-07	3.87E-07	3.47E-07	3.89E-07	6.4652E-04
520604.05	4258709.78	33925.00415	0.16575	0.13801	0.15927	0.14361	6.45E-04	3.89E-07	2.83E-07	3.74E-07	2.83E-07	6.4618E-04
519968.64	4258735.05	33906.92706	0.82638	0.76513	0.94532	0.72085	6.45E-04	1.94E-06	1.57E-06	2.22E-06	1.42E-06	6.5166E-04
520585.36	4258369.19	33869.98038	0.15308	0.17871	0.15111	0.18786	6.44E-04	3.59E-07	3.67E-07	3.55E-07	3.70E-07	6.4526E-04
520217.45	4258202.75	33867.98077	0.22054	1.73453	0.23049	1.92751	6.44E-04	5.18E-07	3.56E-06	5.41E-07	3.79E-06	6.5218E-04
520595.99	4258776.9	33816.15415	0.17621	0.13107	0.16941	0.13586	6.44E-04	4.14E-07	2.69E-07	3.98E-07	2.67E-07	6.4413E-04
520256.69	4258172.87	33805.59689	0.2063	1.21128	0.21798	1.3301	6.43E-04	4.84E-07	2.48E-06	5.12E-07	2.62E-06	6.4868E-04
520364.52	4258123.21	33802.63428	0.17634	0.57188	0.18225	0.61226	6.43E-04	4.14E-07	1.17E-06	4.28E-07	1.21E-06	6.4575E-04
520603.46	4258735.12	33782.45153	0.16819	0.13467	0.16157	0.14006	6.42E-04	3.95E-07	2.76E-07	3.79E-07	2.76E-07	6.4347E-04
520538.7	4258184.51	33781.18872	0.14947	0.22893	0.15152	0.24191	6.42E-04	3.51E-07	4.70E-07	3.56E-07	4.76E-07	6.4377E-04
520539.94	4258912.89	33779.60874	0.22862	0.12326	0.21985	0.12896	6.42E-04	5.37E-07	2.53E-07	5.16E-07	2.54E-07	6.4365E-04
520014.13	4258989.75	33778.83036	2.4537	0.30224	2.96556	0.29775	6.42E-04	5.76E-06	6.20E-07	6.96E-06	5.86E-07	6.5600E-04
519964.19	4258772.54	33769.01993	0.8588	0.63287	0.97715	0.60201	6.42E-04	2.02E-06	1.30E-06	2.29E-06	1.19E-06	6.4868E-04
520062.83	4258443.35	33768.29501	0.46183	18.04345	0.50472	9.2422	6.42E-04	1.08E-06	3.70E-05	1.18E-06	1.82E-05	6.9934E-04
520574.77	4258270.04	33763.46233	0.14706	0.19556	0.14624	0.20418	6.42E-04	3.45E-07	4.01E-07	3.43E-07	4.02E-07	6.4327E-04
520514.16	4258153.98	33624.22733	0.15226	0.2568	0.15566	0.27171	6.42E-04	3.57E-07	5.27E-07	3.65E-07	5.35E-07	6.4340E-04
520507.25	4258966.46	33749.66877	0.26417	0.12322	0.25319	0.12896	6.42E-04	6.20E-07	2.53E-07

520403.71	4258113.33	33238.16089	0.16678	0.45861	0.17102	0.48619	6.32E-04	3.92E-07	9.41E-07	4.02E-07	9.57E-07	6.3449E-04
520433.08	4258113.42	33225.68413	0.16172	0.39159	0.16546	0.41331	6.32E-04	3.80E-07	8.03E-07	3.88E-07	8.14E-07	6.3395E-04
520568.33	4258237.24	33196.56255	0.14584	0.20172	0.14524	0.21137	6.31E-04	3.42E-07	4.14E-07	3.41E-07	4.16E-07	6.3252E-04
520138.89	4258282.5	33154.37817	0.26193	4.96207	0.26787	5.76707	6.30E-04	6.15E-07	1.02E-05	6.29E-07	1.14E-05	6.5298E-04
520504.87	4258139.99	33148.70165	0.15219	0.26995	0.156	0.28519	6.30E-04	3.57E-07	5.54E-07	3.66E-07	5.61E-07	6.3194E-04
520237.09	4258182.81	33142.34965	0.21022	1.43995	0.22105	1.58863	6.30E-04	4.94E-07	2.95E-06	5.19E-07	3.13E-06	6.3707E-04
519889.33	4258949.53	33135.8498	1.57406	0.32965	1.81347	0.32545	6.30E-04	3.70E-06	6.76E-07	4.26E-06	6.41E-07	6.3912E-04
520482.84	4259006.58	33127.4013	0.2957	0.1224	0.28336	0.12822	6.30E-04	6.94E-07	2.51E-07	6.65E-07	2.52E-07	6.3155E-04
520607.02	4258726.61	33120.50022	0.1655	0.13456	0.15905	0.13999	6.30E-04	3.89E-07	2.76E-07	3.73E-07	2.76E-07	6.3087E-04
520393.92	4258113.3	33098.82539	0.16832	0.48419	0.17294	0.51423	6.29E-04	3.95E-07	9.93E-07	4.06E-07	1.01E-06	6.3196E-04
520603.05	4258760.03	33090.22545	0.17053	0.13126	0.16387	0.13618	6.29E-04	4.00E-07	2.69E-07	3.85E-07	2.68E-07	6.3031E-04
520572.79	4258249.17	33083.33663	0.14555	0.19801	0.14473	0.20704	6.29E-04	3.42E-07	4.06E-07	3.40E-07	4.08E-07	6.3035E-04
519961.14	4258789.3	33078.23198	0.85658	0.58024	0.96832	0.5548	6.29E-04	2.01E-06	1.19E-06	2.27E-06	1.09E-06	6.3532E-04
519972.87	4258902.77	33068.49957	1.19487	0.37707	1.35028	0.3705	6.29E-04	2.81E-06	7.73E-07	3.17E-06	7.29E-07	6.3605E-04
520442.86	4258113.45	33067.26202	0.15987	0.37206	0.16365	0.39225	6.29E-04	3.75E-07	7.63E-07	3.84E-07	7.72E-07	6.3084E-04
520607.64	4258701.19	33051.19666	0.16313	0.13811	0.15684	0.14356	6.28E-04	3.83E-07	2.83E-07	3.68E-07	2.83E-07	6.2956E-04
520344.95	4258123.15	33034.57235	0.1789	0.64464	0.18623	0.69343	6.28E-04	4.20E-07	1.32E-06	4.37E-07	1.37E-06	6.3147E-04
520019.69	4258569.92	33028.88897	0.80331	2.84712	0.98169	2.41052	6.28E-04	1.89E-06	5.84E-06	2.30E-06	4.75E-06	6.4259E-04
520581.18	4258461.69	33026.14329	0.162	0.17331	0.15835	0.18218	6.28E-04	3.80E-07	3.55E-07	3.72E-07	3.59E-07	6.2923E-04
520588.66	4258377.86	33009.68514	0.15248	0.17592	0.1502	0.18479	6.27E-04	3.58E-07	3.61E-07	3.53E-07	3.64E-07	6.2889E-04
520063.93	4258432.91	33001.85004	0.43209	19.86185	0.47051	9.65784	6.27E-04	1.01E-06	4.07E-05	1.10E-06	1.90E-05	6.8917E-04
520049.4	4258501.91	32999.41635	0.66306	7.82166	0.74933	5.64922	6.27E-04	1.56E-06	1.60E-05	1.76E-06	1.11E-05	6.5774E-04
520547.42	4258188.24	32982.101	0.1472	0.22062	0.14883	0.23287	6.27E-04	3.46E-07	4.52E-07	3.49E-07	4.58E-07	6.2854E-04
520099.55	4258342.38	32945.5858	0.30696	14.25294	0.32149	15.95838	6.26E-04	7.21E-07	2.92E-05	7.55E-07	3.14E-05	6.8836E-04
519975.54	4258913.86	32943.15602	1.25224	0.36398	1.41802	0.35814	6.26E-04	2.94E-06	7.46E-07	3.33E-06	7.05E-07	6.3391E-04
520559.46	4258884.8	32936.57666	0.21038	0.12268	0.20277	0.12805	6.26E-04	4.94E-07	2.52E-07	4.76E-07	2.52E-07	6.2754E-04
520538.96	4258923.31	32922.6255	0.23	0.12165	0.22115	0.12727	6.26E-04	5.40E-07	2.49E-07	5.19E-07	2.51E-07	6.2736E-04
519965.56	4258872.3	32913.50494	1.04575	0.41632	1.17678	0.40699	6.26E-04	2.46E-06	8.54E-07	2.76E-06	8.01E-07	6.3250E-04
520384.13	4258113.27	32901.62792	0.16079	0.51169	0.1749	0.54451	6.25E-04	3.99E-07	1.05E-06	4.11E-07	1.07E-06	6.2833E-04
520574.77	4258851.53	32896.689	0.19655	0.12405	0.18936	0.12913	6.25E-04	4.61E-07	2.54E-07	4.45E-07	2.54E-07	6.2672E-04
520473.6	4259020.41	32890.61152	0.30888	0.12178	0.29578	0.12782	6.25E-04	7.25E-07	2.50E-07	6.94E-07	2.52E-07	6.2711E-04
519961.27	4258837.83	32881.34844	0.93991	0.47254	1.05885	0.45812	6.25E-04	2.21E-06	9.69E-07	2.49E-06	9.02E-07	6.3158E-04
520092.5	4259085.69	32860.31542	13.99496	0.2623	13.16474	0.2464	6.25E-04	3.29E-05	5.38E-07	3.09E-05	4.85E-07	6.8940E-04
520581.78	4258834.8	32854.27931	0.19034	0.12517	0.18343	0.13011	6.25E-04	4.47E-07	2.57E-07	4.31E-07	2.56E-07	6.2589E-04
520588.23	4258402.59	32851.08815	0.15465	0.17444	0.15194	0.18296	6.24E-04	3.63E-07	3.58E-07	3.57E-07	3.60E-07	6.2588E-04
520513.73	4258143.78	32844.6106	0.15061	0.25844	0.15415	0.27316	6.24E-04	3.54E-07	5.30E-07	3.62E-07	5.38E-07	6.2610E-04
520589.45	4258354.05	32826.55231	0.1501	0.17728	0.14849	0.18639	6.24E-04	3.52E-07	3.64E-07	3.49E-07	3.67E-07	6.2540E-04
520295.94	4258142.99	32823.42032	0.19104	0.89476	0.20163	0.97308	6.24E-04	4.49E-07	1.84E-06	4.73E-07	1.92E-06	6.2859E-04
520585.28	4258826.43	32793.13729	0.1873	0.12562	0.18047	0.1305	6.24E-04	4.40E-07	2.58E-07	4.24E-07	2.57E-07	6.2472E-04
520541.55	4258175.72	32778.14398	0.14748	0.22659	0.14964	0.23941	6.23E-04	3.46E-07	4.65E-07	3.51E-07	4.71E-07	6.2469E-04
520315.55	4258133.05	32774.58458	0.18559	0.78025	0.19503	0.84475	6.23E-04	4.36E-07	1.60E-06	4.58E-07	1.66E-06	6.2714E-04
520005.1	4258986.02	32754.29659	2.07543	0.30062	2.45611	0.29681	6.23E-04	4.87E-06	6.17E-07	5.77E-06	5.84E-07	6.3444E-04
520567.36	4258226.81	32754.21223	0.14508	0.20272	0.14474	0.21271	6.23E-04	3.41E-07	4.16E-07	3.40E-07	4.19E-07	6.2411E-04
520374.34	4258113.24	32741.87632	0.17141	0.54119	0.17698	0.5777	6.22E-04	4.02E-07	1.11E-06	4.15E-07	1.14E-06	6.2543E-04
519977.12	4258683.15	32741.09058	0.77385	1.02154	0.89796	0.94941	6.22E-04	1.82E-06	2.10E-06	2.11E-06	1.87E-06	6.3024E-04
520058.1	4258461.19	32738.39523	0.50816	12.63619	0.55853	7.66387	6.22E-04	1.19E-06	2.59E-05	1.31E-06	1.51E-05	6.6580E-04
520506.54	4258976.76	32731.79435	0.26534	0.1215	0.25433	0.12711	6.22E-04	6.23E-07	2.49E-07	5.97E-07	2.50E-07	6.2389E-04
520531.99	4258161.61	32713.23906	0.14839	0.23682	0.15117	0.25038	6.22E-04	3.48E-07	4.86E-07	3.55E-07	4.93E-07	6.2350E-04
520246.91	4258172.84	32709.68868	0.20519	1.32046	0.21624	1.45226	6.22E-04	4.82E-07	2.71E-06	5.08E-07	2.86E-06	6.2831E-04
520556.85	4258202.29	32695.71133	0.1458	0.21194	0.14665	0.2232	6.21E-04	3.42E-07	4.35E-07	3.44E-07	4.39E-07	6.2305E-04
520497.39	4258990.55	32694.07824	0.27665	0.12152	0.26513	0.12715	6.21E-04	6.49E-07	2.49E-07	6.22E-07	2.50E-07	6.2323E-04
520276.33	4258152.93	32687.27995	0.19611	1.03649	0.20731	1.1326	6.21E-04	4.60E-07	2.13E-06	4.87E-07	2.23E-06	6.2663E-04
520188.02	4258222.66	32663.1605	0.22759	2.39755	0.23421	2.69893	6.21E-04	5.34E-07	4.92E-06	5.50E-07	5.31E-06	6.3218E-04
520515.86	4258962.89	32653.16147	0.25442	0.12132	0.24405	0.12693	6.21E-04	5.97E-07	2.49E-07	5.73E-07	2.50E-07	6.2235E-04
520588.78	4258318.06	32643.84059	0.18422	0.12587	0.17041	0.13071	6.21E-04	4.32E-07	2.58E-07	4.17E-07	2.57E-07	6.2186E-04
520606.58	4258751.6	32638.75295	0.16779	0.13125	0.16124	0.13627	6.20E-04	3.94E-07	2.69E-07	3.79E-07	2.68E-07	6.2171E-04
520548.45	4258909.37	32629.56327	0.22089	0.12142	0.21266	0.12694	6.20E-04	5.19E-07	2.49E-07	4.99E-07	2.50E-07	6.2175E-04
520178.2	4258232.63	32626.78859	0.23236	2.70823	0.23826	3.06413	6.20E-04	5.44E-07	5.55E-06	5.59E-07	6.03E-06	6.3287E-04
519977.29	4258924.58	32609.04867	1.2946	0.35141	1.46809	0.34617	6.20E-04	3.04E-06	7.21E-07	3.45E-06	6.81E-07	6.2773E-04
520197.84	4258212.69	32589.05939	0.22276	2.14049	0.23019	2.39715	6.19E-04	5.23E-07	4.39E-06	5.40E-07	4.72E-06	6.2963E-04
520525.35	4258948.96	32559.66817	0.24404	0.12106	0.23432	0.12667	6.19E-04	5.73E-07	2.48E-07	5.50E-07	2.49E-07	6.2052E-04
519990.66	4258960.07	32552.76768	1.61672	0.31875	1.86574	0.3149	6.19E-04	3.80E-06	6.54E-07	4.38E-06	6.20E-07	6.2822E-04
520335.16	4258123.12	32545.83285	0.1799	0.68629	0.18802	0.73972	6.19E-04	4.22E-07	1.41E-06	4.41E-07	1.46E-06	6.2236E-04
520053.74	4259053.64	32542.44544	7.08229	0.26904	11.85116	0.25957	6.19E-04	1.66E-05	5.52E-07	2.78E-05	5.11E-07	6.6409E-04
520586.13	4258294.93	32511.30218	0.14565	0.18537	0.14504	0.19371	6.18E-04	3.42E-07	3.80E-07	3.41E-07	3.81E-07	6.1943E-04
520364.56	4258113.21	32494.73252	0.17287	0.57311	0.179	0.61356	6.18E-04	4.06E-07	1.18E-06	4.20E-07	1.21E-06	6.2088E-04
519963.37	4258746.45	32481.24864	0.70604	0.70647	0.89865	0.66762	6.17E-04	1.85E-06	1.45E-06	2.11E-06	1.31E-06	6.2414E-04
520168.38	4258242.6	32471.40524	0.23705	3.08983	0.2424	3.51282	6.17E-04	5.57E-07	6.34E-06	5.69E-07	6.91E-06	6.3160E-04
520129.07	4258292.47	32470.72519	0.26654	6.05791	0.27323	7.08338	6.17E-04	6.26E-07	1.24E-05	6.41E-07	1.39E-05	6.4484E-04
520043.82	4259043.65	32454.85122	5.08094	0.27154	7.11513	0.26374	6.17E-04	1.19E-05	5.57E-07	1.67E-05	5.19E-07	6.4662E-04
520109.4	4258322.41	32446.66255	0.28827	10.04247	0.29897	11.82327	6.17E-04	6.77E-07	2.06E-05	7.02E-07	2.33E-05	6.6200E-04
520522.58	4258147.57	32437.09263	0.14889	0.24786	0.15216	0.262	6.17E-04	3.50E-07	5.08E-07	3.57E-07	5.16E-07	6.1830E-04
520207.66	4258202.72	32433.04942	0.21793	1.92423	0.22614	2.14493	6.16E-04	5.12E-07	3.95E-06	5.31E-07	4.22E-06	6.2570E-04
520584.79	4258284.34	32428.20931	0.14504	0.18726	0.14434	0.19547	6.16E-04	3.41E-07	3.84E-07	3.39E-07	3.85E-07	6.1785E-04
520535.04	4258934.94	32397.85056	0.23408	0.12072	0.22499	0.1263	6.16E-04	5.50E-07	2.48E-07	5.28E-07	2.49E-07	6.1740E-04
520610.59	4258718.1	32371.18091	0.16285	0.13434	0.15654	0.13976	6.15E-04	3.82E-07	2.76E-07	3.68E-07	2.75E-07	6.1662E-04
520595.79	4258801.33	32356.25933	0.17832	0.12669	0.17166	0.13138	6.15E-04	4.19E-07	2.60E-07	4.03E-07	2.59E-07	6.1637E-04
519961.82	4258863.29	32351.42892	0.98312	0.42712	1.10382	0.41666	6.15E-04	2.31E-06	8.76E-07	2.59E-06	8.20E-07	6.2154E-04
519994.72	4258971.74	32324.60661	1.73404	0.30891	2.01348	0.3053	6.14E-04	4.07E-06	6.34E-07	4.73E-06	6.01E-07	6.2446E-04
520569.61	4258870.59	32305.87407	0.20164	0.12218	0.19439	0.12735	6.14E-04	4.73E-07	2.51E-07	4.56E-07	2.51E-07	6.1551E-04
520566.46	4258216.42	32265.69377	0.14427	0.20369	0.14428	0.21398	6.13E-04	3.39E-07	4.18E-07	3.39E-07	4.21E-07	6.1483E-04
519978.91	4258935.24	32264.74106	1.33665	0.33956	1.51855	0.33484	6.13E-04	3.14E-06	6.96E-07	3.57E-06	6.59E-07	6.2135E-04
520583.58	4258273.81	32264.55492	0.14438	0.18892	0.14357	0.19708	6.13E-04	3.39E-07	3.87E-07	3.37E-07	3.88E-07	6.1474E-04
519957.99	4258805.82	32255.06124	0.85013	0.53373	0.95462	0.51293	6.13E-04	2.00E-06	1.09E-06	2.24E-06	1.01E-06	6.1945E-04
520588.97	4258306.16	32252.37029	0.14577	0.18224	0.14515	0.19076	6.13E-04	3.42E-07	3.74E-07	3.41E-07	3.76E-07	6.1449E-04
520256.73	4258162.87	32241.22881	0.20026	1.21542	0.21139	1.33291	6.13E-04	4.70E-07	2.49E-06	4.96E-07	2.62E-06	6.1893E-04
520558.15	4258895.35	32231.56585	0.21202	0.12116	0.20436	0.12652	6.13E-04	4.98E-07	2.48E-07	4.80E-07	2.49E-07	6.1414E-04
520491.58	4259002.97	32226.13509	0.28424	0.12072	0.27244	0.12635	6.13E-04	6.67E-07	2.48E-07	6.40E-07	2.49E-07	6.1436E-04
520590.23	4258316.71	32224.54009	0.14636	0.18024	0.14563	0.18897	6.13E-04	3.44E-07	3.70E-07	3.42E-07	3.72E-07	6.1396E-04
520158.56	4258252.57	32223.71944	0.24172	3.56535	0.24668	4.07895	6.13E-04	5.67E-07	7.31E-06	5.79E-07	8.03E-06	6.2900E-04
520599.29	4258792.96	32221.33439	0.17552	0.12712	0.16893	0.13174	6.12E-04	4.12E-07	2.61E-07	3.97E-07	2.59E-07	6.1380E-04
520217.48	4258192.75	32215.15415	0.21315	1.73998	0.22205	1.93184	6.12E-04	5.00E-07	3.57E-06	5.21E-07	3.80E-06	6.2074E-04
519960.48	4258763.6	32194.06734	0.79502	0.64671	0.90144	0.61361	6.12E-04	1.87E-06	1.33E-06	2.12E-06	1.21E-06	6.1847E-04
520354.77	4258113.18	32140.77593	0.1741	0.60803	0.18093	0.65245	6.11E-04	4.09E-07	1.25E-06	4.25E-07	1.28E-06	6.1430E-04
520305.76	4258133.02	32128.48256	0.1861	0.83579	0.19617	0.90664	6.11E-04	4.37E-07	1.71E-06	4.61E-07	1.78E-06	6.1510E-04
520556.14	4258191.98	32126.732	0.1449	0.21283	0.1461	0.22434	6.11E-04	3.40E-07	4.36E-07	3.43E-07	4.42E-07	6.1223E-04
520591.96	4258386.53	32126.37063	0.15183	0.17333	0.14932	0.18188	6.11E-04	3.56E-07	3.55E-07	3.51E-07	3.58E-07	6.1208E-04
520610.12	4258743.17	32125.26936	0.16512	0.13119	0.15872	0.1363	6.11E-04	3.88E-07	2.69E-07	3.73E-07	2.68E-07	6.1194E-04
520611.24	4258692.6	32117.66086	0.16054	0.13808	0.15438	0.14336	6.10E-04	3.77E-07	2.83E-07	3.62E-07	2.82E-07	6.1180E-04
520540.9	4258165.43	32081.95113	0.14633	0.22769	0.14876	0.2406	6.10E-04	3.44E-07	4.67E-07	3.49E-07	4.74E-07	6.1145E-04
520482.29	4259016.82	32081.43552	0.29671	0.12041	0.28447	0.12618	6.10E-04	6.97E-07	2.47E-07	6.68E-07	2.48E-07	6.1167E-04
520286.15	4258142.96	32067.56982	0.19113	0.96322	0.20202	1.04961	6.10E-04	4.49E-07	1.98E-06	4.74E-07	2.07E-06	6.1451E-04
520582.48	4258263.33	32050.59516	0.1437	0.19032	0.1428	0.19856	6.09E-04	3.37E-07	3.90E-07	3.35E-07	3.91E-07	6.1068E-04
520592.92	4258363.18	32019.37044	0.14953	0.17438	0.14755	0.18324	6.09E-04	3.51E-07	3.58E-07	3.46E-07	3.61E-07	6.1005E-04
520008.77	4258589.36	32014.54136	0.78119	2.20028	0.95204	1.92767	6.09E-04	1.83E-06	4.51E-06	2.24E-06	3.79E-06	6.2091E-04
519957.49	4258828.73	32009.46943	0.88024	0.48485	0.98874	0.46868	6.08E-04	2.07E-06	9.94E-07	2.32E-06	9.23E-07	6.1475E-04
520550.53	4258179.56	32008.92671	0.14523	0.2181	0.14699	0.23022	6.08E-04	3.41E-07	4.47E-07	3.45E-07	4.53E-07	6.1002E-04
520082.6	4259085.7	31994.17233	14.69285	0.25847	22.56179	0.24438	6.08E-04	3.45E-05	5.30E-07	5.30E-05	4.81E-07	6.9662E-04
520602.8	4258784.59	31989.46305	0.17271	0.1274	0.16617	0.132	6.08E-04	4.05E-07	2.61E-07	3.90E-07	2.60E-07	6.0938E-04
520325.37	4258123.09	31972.43202	0.18062	0.73213	0.18956	0.79031	6.08E-04	4.24E-07	1.50E-06	4.45E-07	1.56E-06	6.1166E-04
520531.44	4258151.36	31937.51567	0.14704	0.23809	0.15003	0.2516	6.07E-04	3.45E-07	4.88E-07	3.52E-07	4.95E-07	6.0876E-04
520064.67	4258422.61	31935.28788	0.40487	21.21994	0.43947	9.91515	6.07E-04	9.51E-07	4.35E-05	1.03E-06	1.95E-05	6.7205E-04
519987.12	4258646.05	31929.97772	0.75698	1.30981	0.88771	1.20129	6.07E-04	1.78E-06	2.69E-06	2.08E-06	2.36E-06	6.1584E-04
520227.3	4258182.78	31928.9116	0.20839	1.58174	0.21789	1.74948	6.07E-04	4.89E-07	3.24E-06	5.12E-07	3.44E-06	6.1460E-04
520577.31	4258241.09	31915.76491	0.14319	0.19495	0.1424	0.20382	6.07E-04	3.36E-07	4.00E-07	3.34E-07	4.01E-07	6.0813E-04
519965.06	4258726.4	31899.80057	0.76094	0.77682	0.86586	0.73155	6.06E-04	1.79E-06	1.59E-06	2.03E-06	1.44E-06	6.1321E-04
520148.74	4258262.53	31855.61639	0.24629	4.17347	0.25114	4.80852	6.06E-04	5.78E-07	8.56E-06	5.90E-07	9.47E-06	6.2471E-04
520039.48	4258521.35	31854.61498	0.70501	5.32347	0.8131	4.14493	6.05E-04	1.66E-06	1.09E-05	1.91E-06	8.16E-06	6.2814E-04
520547.41	4258919.81	31843.13576	0.22228	0.11985	0.21397	0.12531	6.05E-04	5.22E-07	2.46E-07	5.02E-07	2.47E-07	6.0680E-04
519980.41	4258945.85	31838.57757	1.37607	0.32825	1.56584	0.32399	6.05E-04	3.23E-06	6.73E-07	3.68E-06	6.38E-07	6.1341E-04
520591.56	4258411.35	31829.52838	0.15389	0.17172	0.15101	0.18003	6.05E-04	3.61E-07	3.52E-07	3.55E-07	3.54E-07	6.0644E-04
520584.66	4258470.82	31814.54817	0.16088	0.17043	0.1569	0.17915	6.05E-04	3.78E-07	3.50E-07	3.68E-07	3.53E-07	6.0619E-04
520581.47	4258252.88	31767.8999	0.14297	0.19155	0.14207	0.19993	6.04E-04	3.36E-07	3.93E-07	3.34E-07	3.94E-07	6.0531E-04
520092.52	4259095.69	31764.86042	13.92233	0.25481	13.11874	0.23955	6.04E-04	3.27E-05	5.23E-07	3.08E-05	4.72E-07	6.6827E-04
520266.55	4258152.9	31762.23995	0.1955	1.1224	0.20655	1.22803	6.04E-04	4.59E-07	2.30E-06	4.85E-07	2.42E-06	6.0941E-04
519957.47	4258780.46	31747.74165	0.7977	0.59335	0.89795	0.56586	6.03E-04	1.87E-06	1.22E-06	2.11E-06	1.11E-06	6.0978E-04
520565.63	4258206.05	31740.88508	0.14341	0.20464	0.14382	0.21517	6.03E-04	3.37E-07	4.20E-07	3.38E-07	4.24E-07	6.0485E-04
520505.88	4258987.04	31739.74378	0.26639	0.11976	0.25545	0.12525	6.03E-04	6.25E-07	2.46E-07	6.00E-07	2.47E-07	6.0503E-04
520344.98	4258113.15	31715.66721	0.17514	0.64619	0.18273	0.69481	6.03E-04	4.11E-07	1.33E-06	4.29E-07	1.37E-06	6.0639E-04
520568.1	4258881.22	31712.53887	0.20338	0.12084	0.19621	0.126	6.03E-04	4.77E-07	2.48E-07	4.61E-07	2.48E-07	6.0423E-04
519958.09	4258854.28	31706.7313	0.92404	0.43815	1.03555	0.42636	6.03E-04	2.17E-06	8.99E-07	2.43E-06	8.39E-07	6.0903E-04
519996.06	4258982.29	31705.13852	1.78063	0.29923	2.07202	0.29581	6.03E-04	4.18E-06	6.14E-07	4.86E-06	5.82E-07	6.1290E-04
520515.09	4258973.22	31704.2651	0.25556	0.11968	0.2452	0.12516	6.03E-04	6.00E-07	2.45E-07	5.76E-07	2.46E-07	6.0431E-04
519968	4258709.38	31650.04219	0.74783	0.851	0.8549	0.79838	6.02E-04	1.76E-06	1.75E-06	2.01E-06	1.57E-06	6.0860E-04
520524.46	4258959.33	31646.80486	0.24526	0.1195	0.23551	0.12498	6.02E-04	5.76E-07	2.45E-07	5.53E-07	2.46E-07	6.0317E-04
520614.15	4258709.59	31621.31942	0.16033	0.13433	0.15419	0.13965	6.01E-04	3.76E-07	2.76E-07	3.62E-07	2.75E-07	6.0235E-04
520119.25	4258302.44	31619.70295	0.27075	7.6361	0.27879	8.93373	6.01E-04	6.36E-07	1.57E-05	6.55E-07	1.76E-05	6.3557E-04
520237.12	4258172.81	31583.94638	0.20366	1.44462	0.21364	1.59203	6.00E-04	4.78E-07	2.96E-06	5.02E-07	3.13E-06	6.0743E-04
520054.17	4259063.64	31582.28473	7.21075	0.26145	12.25302	0.25224	6.00E-04	1.69E-05	5.36E-07	2.88E-05	4.97E-07	6.4705E-04
520576.26	4258230.63	31562.40375	0.1425	0.19598	0.1419	0.20517	6.00E-04	3.35E-07	4.02E-07	3.33E-07	4.04E-07	6.0142E-04
520534.01	4258945.37	31515.63945	0.23537	0.1192	0.22623	0.12467	5.99E-04	5.53E-07	2.44E-07	5.31E-07	2.45E-07	6.0063E-04
520556.96	4258905.85	31512.34601	0.21353	0.11963	0.2058	0.12497	5.99E-04	5.01E-07	2.45E-07	4.83E-07	2.46E-07	6.0047E-04
519977.12	4258673.87	31495.96201	0.74121	1.06119	0.85902	0.98478	5.99E-04	1.74E-06	2.18E-06	2.02E-06	1.94E-06	6.0655E-04
520043.84	4259053.65	31481.61187	5.10533	0.26359	7.14471	0.25607	5.98E-04	1.20E-05	5.41E-07	1.68E-05	5.04E-07	6.2821E-04
520295.97	4258132.99	31427.93502	0.18629	0.89749	0.19681	0.97525	5.97E-04	4.37E-07	1.84E-06	4.62E-07	1.92E-06	6.0205E-04
520315.58	4258123.05	31419.84279	0.1813	0.78243	0.19087	0.84655	5.97E-04	4.26E-07	1.60E-06	4.48E-07	1.67E-06	6.0138E-04
519964.02	4258899.11	31416.81936	1.05613	0.37474	1.18381	0.36788	5.97E-04	2.48E-06	7.69E-07	2.78E-06	7.24E-07	6.0393E-04
520609.8	4258767.86	31387.2034	0.16728	0.1278	0.16089	0.13246	5.97E-04	3.93E-07	2.62E-07	3.

519969.92	4258931.53	30860.23905	1.17707	0.33783	1.32387	0.33298	5.87E-04	2.76E-06	6.93E-07	3.11E-06	6.55E-07	5.9382E-04
520207.69	4258192.72	30856.11684	0.21047	1.92969	0.21768	2.14903	5.87E-04	4.94E-07	3.96E-06	5.11E-07	4.23E-06	5.9571E-04
520168.41	4258232.6	30832.86998	0.22799	3.09585	0.23237	3.52199	5.86E-04	5.35E-07	6.35E-06	5.46E-07	6.93E-06	6.0044E-04
520592.39	4258277.58	30824.58883	0.1418	0.18238	0.14096	0.19027	5.86E-04	3.33E-07	3.74E-07	3.31E-07	3.75E-07	5.8733E-04
520305.79	4258123.02	30811.33793	0.18169	0.83807	0.19175	0.90866	5.86E-04	4.27E-07	1.72E-06	4.50E-07	1.79E-06	5.9005E-04
520617.71	4258701.09	30801.21817	0.15785	0.13437	0.15188	0.13954	5.85E-04	3.71E-07	2.76E-07	3.57E-07	2.75E-07	5.8675E-04
520256.76	4258152.87	30797.56408	0.1945	1.21921	0.20499	1.33579	5.85E-04	4.57E-07	2.50E-06	4.81E-07	2.63E-06	5.9147E-04
520555.86	4258916.31	30793.62712	0.21491	0.1181	0.20711	0.12339	5.85E-04	5.05E-07	2.42E-07	4.86E-07	2.43E-07	5.8681E-04
520594.9	4258420.11	30788.66838	0.15308	0.16901	0.15004	0.17715	5.85E-04	3.59E-07	3.47E-07	3.52E-07	3.49E-07	5.8664E-04
520514.38	4258983.52	30776.1757	0.25658	0.11803	0.24623	0.12339	5.85E-04	6.02E-07	2.42E-07	5.78E-07	2.43E-07	5.8666E-04
520523.64	4258969.68	30760.06364	0.24638	0.11793	0.23663	0.12329	5.85E-04	5.78E-07	2.42E-07	5.56E-07	2.43E-07	5.8631E-04
520549.16	4258158.95	30749.78604	0.14312	0.22016	0.14543	0.23248	5.84E-04	3.36E-07	4.52E-07	3.41E-07	4.58E-07	5.8608E-04
520574.41	4258209.81	30748.08572	0.14102	0.19775	0.14102	0.20757	5.84E-04	3.31E-07	4.06E-07	3.31E-07	4.09E-07	5.8594E-04
520129.1	4258282.47	30738.19044	0.2549	6.07117	0.26074	7.10685	5.84E-04	5.98E-07	1.25E-05	6.12E-07	1.40E-05	6.1193E-04
520588.13	4258479.95	30737.68809	0.15972	0.16765	0.15539	0.17618	5.84E-04	3.75E-07	3.44E-07	3.65E-07	3.47E-07	5.8570E-04
520600.18	4258814.77	30732.76992	0.17666	0.12304	0.17029	0.12761	5.84E-04	4.15E-07	2.52E-07	4.00E-07	2.51E-07	5.8549E-04
520286.18	4258132.96	30695.77106	0.18621	0.96613	0.19687	1.0518	5.83E-04	4.37E-07	1.98E-06	4.62E-07	2.07E-06	5.8842E-04
520591.22	4258267.07	30693.47424	0.14117	0.1839	0.14023	0.19177	5.83E-04	3.31E-07	3.77E-07	3.29E-07	3.77E-07	5.8484E-04
520217.51	4258182.75	30679.15479	0.20611	1.74496	0.21402	1.93564	5.83E-04	4.84E-07	3.58E-06	5.02E-07	3.81E-06	5.9153E-04
520533.07	4258955.77	30673.40377	0.23659	0.1177	0.22742	0.12306	5.83E-04	5.55E-07	2.41E-07	5.34E-07	2.42E-07	5.8462E-04
520092.95	4259106.51	30670.84015	13.6661	0.24724	12.84313	0.23256	5.83E-04	3.21E-05	5.07E-07	3.02E-05	4.58E-07	6.4620E-04
520325.4	4258113.09	30666.78816	0.17655	0.73403	0.18567	0.7917	5.83E-04	4.14E-07	1.51E-06	4.36E-07	1.56E-06	5.8683E-04
520586.29	4258244.93	30654.73088	0.14063	0.1884	0.13968	0.19664	5.83E-04	3.30E-07	3.86E-07	3.28E-07	3.87E-07	5.8412E-04
519987.03	4258978.56	30637.52506	1.54638	0.29786	1.77303	0.29461	5.82E-04	3.63E-06	6.11E-07	4.16E-06	5.80E-07	5.9135E-04
520558.74	4258173.06	30619.89608	0.14201	0.21114	0.14367	0.22272	5.82E-04	3.33E-07	4.33E-07	3.37E-07	4.38E-07	5.8357E-04
520054.19	4259073.64	30617.15219	7.26864	0.25393	12.12973	0.24508	5.82E-04	1.71E-05	5.21E-07	2.89E-05	4.82E-07	6.2899E-04
519959.62	4258737.41	30612.00119	0.7284	0.71781	0.82353	0.67811	5.82E-04	1.71E-06	1.47E-06	1.93E-06	1.33E-06	5.8833E-04
520109.43	4258312.41	30608.24031	0.27444	10.07957	0.28436	11.60779	5.82E-04	6.44E-07	2.07E-05	6.68E-07	2.28E-05	6.2664E-04
520597.59	4258309.85	30596.69156	0.14309	0.17586	0.14229	0.18423	5.82E-04	3.36E-07	3.61E-07	3.34E-07	3.63E-07	5.8298E-04
520044.27	4259063.65	30585.63122	5.19516	0.25622	7.29918	0.24889	5.81E-04	1.22E-05	5.25E-07	1.71E-05	4.90E-07	6.1173E-04
520158.59	4258242.57	30565.13552	0.23218	3.57342	0.2363	4.08724	5.81E-04	5.45E-07	7.33E-06	5.55E-07	8.05E-06	5.9746E-04
520603.83	4258806.07	30552.04285	0.17371	0.1234	0.1674	0.1279	5.81E-04	4.08E-07	2.53E-07	3.93E-07	2.52E-07	5.8204E-04
519971.49	4258942.17	30535.43802	1.21249	0.32673	1.36552	0.32236	5.80E-04	2.85E-06	6.70E-07	3.21E-06	6.35E-07	5.8778E-04
519956.78	4258754.66	30535.33731	0.73503	0.65879	0.83063	0.62401	5.80E-04	1.73E-06	1.35E-06	1.95E-06	1.23E-06	5.8668E-04
519954.83	4258870.54	30524.50358	0.90651	0.40769	1.01069	0.39803	5.80E-04	2.13E-06	8.36E-07	2.37E-06	7.84E-07	5.8634E-04
520576.74	4258877.65	30523.4699	0.19672	0.11902	0.18992	0.12398	5.80E-04	4.62E-07	2.44E-07	4.46E-07	2.44E-07	5.8159E-04
520052.25	4258475.41	30515.15909	0.53939	9.10304	0.5953	6.26001	5.80E-04	1.27E-06	1.87E-05	1.40E-06	1.23E-05	6.1369E-04
520542.68	4258941.78	30503.6001	0.22714	0.11737	0.21855	0.1227	5.80E-04	5.33E-07	2.41E-07	5.13E-07	2.42E-07	5.8135E-04
520590.14	4258256.59	30502.96004	0.14051	0.18522	0.13951	0.19315	5.80E-04	3.30E-07	3.80E-07	3.28E-07	3.80E-07	5.8122E-04
520598.92	4258320.43	30472.73617	0.14355	0.17409	0.14261	0.18261	5.79E-04	3.37E-07	3.57E-07	3.35E-07	3.59E-07	5.8062E-04
520227.33	4258172.78	30442.84493	0.20176	1.58622	0.21031	1.75311	5.79E-04	4.74E-07	3.25E-06	4.94E-07	3.45E-06	5.8634E-04
520565.46	4258902.33	30430.93096	0.20651	0.11789	0.19926	0.12305	5.78E-04	4.85E-07	2.42E-07	4.68E-07	2.42E-07	5.7987E-04
520600.05	4258356.04	30418.15247	0.14617	0.17048	0.14424	0.17908	5.78E-04	3.43E-07	3.50E-07	3.39E-07	3.53E-07	5.7958E-04
520499.65	4259009.63	30417.18262	0.27439	0.11722	0.26322	0.12261	5.78E-04	6.44E-07	2.40E-07	6.18E-07	2.41E-07	5.7992E-04
520607.47	4258797.37	30415.33493	0.17092	0.12383	0.16468	0.12826	5.78E-04	4.01E-07	2.54E-07	3.87E-07	2.52E-07	5.7943E-04
520585.17	4258234.44	30382.81778	0.13998	0.18948	0.13915	0.19798	5.78E-04	3.29E-07	3.89E-07	3.27E-07	3.90E-07	5.7896E-04
520509.06	4258995.73	30360.36059	0.26283	0.11726	0.2522	0.12258	5.77E-04	6.17E-07	2.40E-07	5.92E-07	2.41E-07	5.7879E-04
519953.81	4258771.61	30337.46751	0.74219	0.60534	0.83205	0.57615	5.77E-04	1.74E-06	1.24E-06	1.95E-06	1.13E-06	5.8273E-04
520266.58	4258142.9	30326.54785	0.18996	1.12609	0.20056	1.22988	5.76E-04	4.46E-07	2.31E-06	4.71E-07	2.42E-06	5.8210E-04
520599.87	4258381.43	30326.09101	0.14824	0.16891	0.14568	0.17717	5.76E-04	3.48E-07	3.46E-07	3.42E-07	3.49E-07	5.7783E-04
520552.5	4258927.71	30318.18825	0.21814	0.11706	0.21013	0.12233	5.76E-04	5.12E-07	2.40E-07	4.93E-07	2.41E-07	5.7778E-04
520591.33	4258462.49	30315.10218	0.15729	0.16733	0.15347	0.17575	5.76E-04	3.69E-07	3.43E-07	3.60E-07	3.46E-07	5.7765E-04
520598.57	4258403.87	30297.38456	0.15041	0.16815	0.14753	0.1762	5.76E-04	3.53E-07	3.45E-07	3.46E-07	3.47E-07	5.7729E-04
520573.59	4258199.44	30296.99871	0.14024	0.19857	0.14061	0.20865	5.76E-04	3.29E-07	4.07E-07	3.30E-07	4.11E-07	5.7737E-04
520568.49	4258187.24	30283.54534	0.14058	0.20276	0.14151	0.21345	5.76E-04	3.30E-07	4.16E-07	3.32E-07	4.20E-07	5.7713E-04
520620.71	4258717.86	30251.49003	0.15754	0.13083	0.1516	0.13598	5.75E-04	3.70E-07	2.68E-07	3.56E-07	2.68E-07	5.7629E-04
520148.77	4258252.53	30222.6557	0.23636	4.18129	0.24039	4.82252	5.74E-04	5.55E-07	8.58E-06	5.64E-07	9.49E-06	5.9367E-04
519987.12	4258636.77	30218.75801	0.71727	1.35169	0.83822	1.29935	5.74E-04	1.68E-06	2.77E-06	1.97E-06	2.44E-06	5.8327E-04
519950.62	4258836.27	30170.00035	0.81552	0.46031	0.90954	0.44539	5.73E-04	1.91E-06	9.44E-07	2.14E-06	8.77E-07	5.7935E-04
519977.12	4258664.6	30164.16001	0.70839	1.09964	0.81929	1.01926	5.73E-04	1.66E-06	2.26E-06	1.92E-06	2.01E-06	5.8121E-04
520315.61	4258113.05	30155.39261	0.17715	0.78441	0.18677	0.84821	5.73E-04	4.16E-07	1.61E-06	4.38E-07	1.67E-06	5.7733E-04
520237.15	4258162.81	30148.99683	0.19744	1.44869	0.20653	1.59543	5.73E-04	4.64E-07	2.97E-06	4.85E-07	3.14E-06	5.8014E-04
519972.95	4258952.77	30148.38168	1.24635	0.31613	1.40542	0.31218	5.73E-04	2.93E-06	6.48E-07	3.30E-06	6.15E-07	5.8055E-04
520296	4258122.99	30137.57729	0.18174	0.89991	0.19209	0.97737	5.73E-04	4.27E-07	1.85E-06	4.51E-07	1.92E-06	5.7751E-04
520019.65	4258560.22	30132.39171	0.74116	2.91354	0.89039	2.46801	5.73E-04	1.74E-06	5.98E-06	2.09E-06	4.86E-06	5.8743E-04
520611.11	4258788.66	30106.58231	0.168	0.12399	0.16179	0.1284	5.72E-04	3.94E-07	2.54E-07	3.80E-07	2.53E-07	5.7355E-04
520620.31	4258742.75	30075.77263	0.15958	0.12775	0.15355	0.13267	5.72E-04	3.75E-07	2.62E-07	3.60E-07	2.61E-07	5.7294E-04
520584.14	4258223.98	30062.73988	0.13931	0.19044	0.13868	0.19922	5.71E-04	3.27E-07	3.91E-07	3.26E-07	3.92E-07	5.7287E-04
520558.02	4258162.74	30062.37317	0.14105	0.21205	0.14299	0.22377	5.71E-04	3.31E-07	4.35E-07	3.36E-07	4.40E-07	5.7297E-04
519949.95	4258810.54	30018.36199	0.77142	0.50845	0.85933	0.48876	5.71E-04	1.81E-06	1.04E-06	2.02E-06	9.62E-07	5.7643E-04
519976.51	4258964.23	30005.55781	1.31869	0.30637	1.49266	0.30281	5.70E-04	3.10E-06	6.28E-07	3.50E-06	5.96E-07	5.7818E-04
519989.93	4258628.23	29971.5234	0.71459	1.43795	0.83758	1.31416	5.70E-04	1.68E-06	2.95E-06	1.97E-06	2.59E-06	5.7888E-04
520575.29	4258888.25	29966.06145	0.19833	0.11762	0.19154	0.12259	5.70E-04	4.66E-07	2.41E-07	4.50E-07	2.41E-07	5.7100E-04
520119.28	4258292.44	29950.23357	0.25867	7.65376	0.26582	8.97114	5.69E-04	6.07E-07	1.57E-05	6.24E-07	1.77E-05	6.0388E-04
520621.27	4258692.58	29940.50118	0.15543	0.13437	0.14957	0.13937	5.69E-04	3.65E-07	2.76E-07	3.51E-07	2.74E-07	5.7038E-04
519951.13	4258861.61	29918.10723	0.85428	0.41773	0.95082	0.40681	5.69E-04	2.01E-06	8.57E-07	2.23E-06	8.01E-07	5.7458E-04
520083.05	4259106.53	29908.15166	16.4484	0.24371	21.66329	0.23068	5.68E-04	3.86E-05	5.00E-07	5.09E-05	4.54E-07	6.5893E-04
520522.88	4258980	29890.10105	0.24738	0.11636	0.23763	0.1216	5.68E-04	5.81E-07	2.39E-07	5.58E-07	2.39E-07	5.6977E-04
519950.72	4258788.29	29885.57995	0.742	0.55807	0.82879	0.53323	5.68E-04	1.74E-06	1.14E-06	1.95E-06	1.05E-06	5.7395E-04
520276.4	4258132.93	29885.52907	0.18568	1.04297	0.19619	1.13684	5.68E-04	4.36E-07	2.14E-06	4.61E-07	2.24E-06	5.7334E-04
520614.76	4258779.96	29877.46678	0.16532	0.12425	0.15916	0.12867	5.68E-04	3.88E-07	2.55E-07	3.74E-07	2.53E-07	5.6919E-04
520532.19	4258966.14	29850.63075	0.2377	0.11621	0.22852	0.12146	5.67E-04	5.58E-07	2.38E-07	5.36E-07	2.39E-07	5.6898E-04
519961.47	4258717.75	29841.8968	0.69994	0.78579	0.79296	0.7401	5.67E-04	1.64E-06	1.61E-06	1.86E-06	1.46E-06	5.7381E-04
520246.97	4258152.84	29818.0898	0.19318	1.32843	0.20268	1.45842	5.67E-04	4.54E-07	2.72E-06	4.76E-07	2.87E-06	5.7331E-04
520567.65	4258176.87	29799.73794	0.13976	0.20367	0.14104	0.21457	5.66E-04	3.28E-07	4.18E-07	3.31E-07	4.22E-07	5.6794E-04
520564.31	4258912.81	29772.73555	0.20788	0.11641	0.20056	0.12153	5.66E-04	4.88E-07	2.39E-07	4.71E-07	2.39E-07	5.6736E-04
519957.25	4258906.31	29764.15638	0.97511	0.35929	1.08573	0.35302	5.66E-04	2.29E-06	7.37E-07	2.55E-06	6.95E-07	5.7203E-04
520138.95	4258262.5	29751.17817	0.24035	4.98416	0.2447	5.7949	5.66E-04	5.64E-07	1.02E-05	5.74E-07	1.14E-05	5.8828E-04
520598.23	4258428.87	29743.27097	0.15223	0.16637	0.14903	0.17438	5.65E-04	3.57E-07	3.41E-07	3.50E-07	3.43E-07	5.6676E-04
520541.67	4258952.2	29696.63264	0.22826	0.1159	0.21964	0.12113	5.64E-04	5.36E-07	2.38E-07	5.16E-07	2.38E-07	5.6597E-04
520044.28	4259073.65	29679.73824	5.23124	0.24893	7.32551	0.24186	5.64E-04	1.23E-05	5.11E-07	1.72E-05	4.76E-07	5.9462E-04
520092.96	4259116.51	29678.54192	13.58657	0.24045	12.80452	0.22633	5.64E-04	3.19E-05	4.93E-07	3.01E-05	4.46E-07	6.2703E-04
519959.16	4258917.1	29659.89015	1.01005	0.34735	1.12566	0.34178	5.64E-04	2.37E-06	7.12E-07	2.64E-06	6.73E-07	5.7018E-04
520603.49	4258365.06	29653.60479	0.14558	0.16758	0.1433	0.17595	5.64E-04	3.42E-07	3.44E-07	3.36E-07	3.46E-07	5.6503E-04
520603.8	4258340	29614.43984	0.14345	0.16943	0.14192	0.17794	5.63E-04	3.37E-07	3.47E-07	3.33E-07	3.50E-07	5.6428E-04
520618.4	4258771.26	29596.68579	0.16269	0.12441	0.1566	0.12888	5.63E-04	3.82E-07	2.55E-07	3.68E-07	2.54E-07	5.6384E-04
520305.82	4258113.02	29563.1387	0.17739	0.84021	0.18738	0.91035	5.62E-04	4.16E-07	1.72E-06	4.40E-07	1.79E-06	5.6631E-04
519977.99	4258074.83	29555.105	1.35489	0.29677	1.53387	0.29352	5.62E-04	3.18E-06	6.09E-07	3.61E-06	5.78E-07	5.6976E-04
520551.34	4258938.19	29543.76146	0.21937	0.11561	0.21131	0.12081	5.62E-04	5.15E-07	2.37E-07	4.96E-07	2.38E-07	5.6306E-04
520623.82	4258734.39	29531.60268	0.15715	0.12764	0.15127	0.13261	5.61E-04	3.69E-07	2.62E-07	3.55E-07	2.61E-07	5.6259E-04
520065.62	4258402.25	29530.95626	0.35818	23.14203	0.38646	10.34739	5.61E-04	8.41E-07	4.77E-05	9.07E-07	2.04E-05	6.3111E-04
520624.24	4258709.43	29502.75622	0.15513	0.1307	0.14932	0.13577	5.61E-04	3.64E-07	2.68E-07	3.51E-07	2.67E-07	5.6204E-04
520508.34	4259006.03	29497.6433	0.2639	0.1156	0.2533	0.12083	5.61E-04	6.20E-07	2.37E-07	5.95E-07	2.38E-07	5.6239E-04
520188.08	4258202.66	29492.04914	0.21142	2.41065	0.21623	2.7072	5.61E-04	4.96E-07	4.94E-06	5.08E-07	5.33E-06	5.7187E-04
520099.61	4258322.38	29483.01474	0.27754	14.34204	0.2896	15.74337	5.60E-04	6.52E-07	2.94E-05	6.80E-07	3.10E-05	6.2216E-04
520197.9	4258192.69	29481.31525	0.20742	2.15197	0.21294	2.40538	5.60E-04	4.87E-07	4.41E-06	5.00E-07	4.73E-06	5.7052E-04
519960.94	4258927.82	29479.74552	1.04359	0.33595	1.16411	0.33097	5.60E-04	2.45E-06	6.89E-07	2.73E-06	6.52E-07	5.6688E-04
520517.8	4258992.11	29460.68813	0.25295	0.11558	0.24291	0.12077	5.60E-04	5.94E-07	2.37E-07	5.70E-07	2.38E-07	5.6163E-04
520603.35	4258390.56	29449.06011	0.14752	0.16631	0.14476	0.17428	5.60E-04	3.46E-07	3.41E-07	3.40E-07	3.43E-07	5.6114E-04
520178.26	4258212.63	29448.61668	0.21547	2.72122	0.21958	3.07519	5.60E-04	5.06E-07	5.58E-06	5.16E-07	6.05E-06	5.7242E-04
520009.73	4258579.66	29423.37035	0.72809	2.26632	0.88089	1.97516	5.59E-04	1.71E-06	4.65E-06	2.07E-06	3.89E-06	5.7160E-04
520256.79	4258142.87	29420.22081	0.18888	1.22288	0.19873	1.33782	5.59E-04	4.43E-07	2.51E-06	4.67E-07	2.63E-06	5.6528E-04
520595.26	4258248.77	29419.45348	0.13814	0.18202	0.13705	0.18978	5.59E-04	3.24E-07	3.73E-07	3.22E-07	3.74E-07	5.6060E-04
520286.22	4258122.96	29417.13699	0.18147	0.96868	0.19181	1.05373	5.59E-04	4.26E-07	1.99E-06	4.50E-07	2.07E-06	5.6410E-04
520207.72	4258182.72	29401.4435	0.20342	1.93439	0.20968	2.15295	5.59E-04	4.78E-07	3.97E-06	4.92E-07	4.24E-06	5.6804E-04
520588.99	4258865.44	29397.64856	0.18737	0.11776	0.18105	0.12246	5.59E-04	4.40E-07	2.42E-07	4.25E-07	2.41E-07	5.6014E-04
520052.9	4259085.75	29383.67035	6.97461	0.24471	11.40432	0.23647	5.59E-04	1.64E-05	5.02E-07	2.68E-05	4.65E-07	6.0265E-04
520592.6	4258856.82	29383.4287	0.18445	0.11816	0.17817	0.1228	5.59E-04	4.33E-07	2.42E-07	4.18E-07	2.42E-07	5.5986E-04
520573.97	4258898.8	29378.97059	0.19981	0.11619	0.19298	0.12116	5.58E-04	4.69E-07	2.38E-07	4.53E-07	2.39E-07	5.5984E-04
520601.21	4258281.36	29370.46162	0.13921	0.17611	0.13836	0.18376	5.58E-04	3.27E-07	3.61E-07	3.25E-07	3.62E-07	5.5965E-04
520601.87	4258412.54	29358.62034	0.14964	0.16561	0.1466	0.17348	5.58E-04	3.51E-07	3.40E-07	3.44E-07	3.41E-07	5.5943E-04
520577.46	4258191.09	29357.795	0.13822	0.1958	0.13875	0.20575	5.58E-04	3.24E-07	4.02E-07	3.26E-07	4.05E-07	5.5950E-04
520596.21	4258848.19	29355.35933	0.18155	0.11851	0.17529	0.12311	5.58E-04	4.26E-07	2.43E-07	4.12E-07	2.42E-07	5.5932E-04
520602.58	4258291.96	29350.57298	0.13973	0.17427	0.13892	0.18209	5.58E-04	3.28E-07	3.57E-07	3.26E-07	3.58E-07	5.5927E-04
519951.5	4258886.61	29347.9946	0.88734	0.38086	0.98587	0.37282	5.58E-04	2.08E-06	7.81E-07	2.31E-06	7.34E-07	5.6377E-04
519964.37	4258700.63	29347.31749	0.68451	0.85785	0.77825	0.80535	5.58E-04	1.61E-06	1.76E-06	1.83E-06	1.59E-06	5.6462E-04
520582.31	4258203.17	29340.82602	0.13791	0.19205	0.13789	0.20143	5.58E-04	3.24E-07	3.94E-07	3.24E-07	3.97E-07	5.5915E-04
520561.23	4258924.1	29339.01898	0.21076	0.11532	0.20325	0.12043	5.58E-04	4.95E-07	2.37E-07	4.77E-07	2.37E-07	5.5913E-04
520599.96	4258270.81	29329.30853	0.13866	0.1777	0.1377	0.18526	5.57E-04	3.26E-07	3.64E-07	3.23E-07	3.65E-07	5.5888E-04
520599.83	4258839.56	29306.02753	0.17867	0.11904	0.17253	0.12357	5.57E-04	4.19E-07	2.44E-07	4.05E-07	2.43E-07	5.5837E-04
520566.87	4258166.53	29300.67302	0.13889	0.20458	0.14049	0.21563	5.57E-04	3.26E-07	4.20E-07	3.30E-07	4.24E-07	5.5845E-04
520168.44	4258222.6	29294.07765	0.2194	3.10316	0.22303	3.52711	5.57E-04	5.15E-07	6.36E-06	5.24E-07	6.94E-06	5.7117E-04
519946.88	4258877.26	29284.18096	0.76567	0.47115	0.85116	0.45457	5.57E-04	1.80E-06	9.66E-07	2.00E-06	8.95E-07	5.6230E-04
520594.75	4258471.48	29260.49266	0.1562	0.1647	0.15207	0.17297	5.56E-04	3.67E-07	3.38E-07	3.57E-07	3.40E-07	5.5759E-04
520217.54	4258172.75	29252.7208	0.19941	1.74942	0.20639	1.93903	5.56E-04	4.68E-07	3.59E-06	4.85E-07	3.82E-06	5.6440E-04
520604.08	4258302.61	29246.65554	0.14019	0.17215	0.13933	0.18019	5.56E-04	3.29E-07	3.53E-07	3.27E-07	3.55E-07	5.5729E-04
520622.04	4258762.56	29242.38329	0.1601	0.12445	0.15409	0.129	5.56E-04	3.76E-07	2.55E-07	3.62E-07	2.54E-07	5.5709E-04
520603.44	4258830.94	29234.93289	0.17581	0.11954	0.16979	0.12401	5.56E-04	4.13E-07	2.45E-07	3.99E-07	2.44E-07	5.5700E-04
519947.43	4258852.69	29234.07246	0.8046	0.42785	0.89429	0.41549	5.56E-04	1.89E-06	8.77E-07	2.10E-06	8.18E-07	5.6137E-04
519962.58	4258938.49	29233.36053	1.07559	0.32504	1.20094	0.32057	5.56E-04	2.53E-06	6.67E-07	2.82E-06	6.31E-07	5.6232E-04
520598.82	4258260.31	29228.69255	0.13807	0.17907	0.13701	0.18663	5.56E-04	3.24E-07	3.67E-07	3.22E-07	3.67E-07	5.5697E-04
520594.07	4258238.25	29223.46303	0.13755	0.18318	0.1365	0.19113	5.55E-04	3.23E-07	3.76E-07	3.20E-07	3.76E-07	5.5688E-04
520129.13	4258272.47	29153.08279	0.2441	6.08444	0.24922	7.12524	5.54E-04	5.73E-07	1.25E-05	5.85E-07	1.40E-05	5.8181E-04
520607.05	4258822.31	29139.53497	0.17302	0.11993	0.16704	0.12433	5.54E-04	4.06E-07	2.46E-07	3.92E-07	2.45E-07	5.5518E-04
520158.62	4258232.57	29058.60602	0.2233	3.57944	0.22663	4.09779	5.52E-04	5.24E-07	7.34E-06	5.32E-07	8.07E-06	5.6882E-04
520227.36	4258162.78	29057.64762	0.19544	1.59025	0.20308	1.7563	5.52E-04	4.59E-07	3.26E-06	4.77E-07	3.46E-06	5.5999E-04
520531.37	4258976.48	29048.00529	0.23873	0.11473	0.22955	0.11985	5.52E-04	5.60E-07	2.35E-07	5.39E-07	2.36E-07	5.5372E-04
520039.44	4258511.65	29019.39447	0.64214	5.37061	0.72914	4.19689	5.52E-04	1.51E-06	1.10E-05

520052.91	4259095.75	28506.06325	7.03898	0.23793	11.46657	0.23001	5.42E-04	1.65E-05	4.88E-07	2.69E-05	4.53E-07	5.8623E-04
520247	4258142.84	28499.1456	0.18749	1.33201	0.19623	1.46067	5.42E-04	4.40E-07	2.73E-06	4.61E-07	2.88E-06	5.4823E-04
519943.73	4258843.77	28481.80603	0.75773	0.43783	0.84016	0.42397	5.41E-04	1.78E-06	8.98E-07	1.97E-06	8.35E-07	5.4687E-04
520575.73	4258170.32	28481.16013	0.13666	0.19752	0.13792	0.20788	5.41E-04	3.21E-07	4.05E-07	3.24E-07	4.09E-07	5.4283E-04
519968.96	4258971.1	28462.60928	1.19671	0.29556	1.34319	0.29226	5.41E-04	2.81E-06	6.06E-07	3.15E-06	5.75E-07	5.4817E-04
520621.5	4259787.81	28444.66187	0.16222	0.12114	0.15639	0.12534	5.41E-04	3.81E-07	2.48E-07	3.67E-07	2.47E-07	5.4192E-04
520586.44	4258194.93	28432.6273	0.1359	0.18918	0.136	0.19847	5.40E-04	3.19E-07	3.88E-07	3.19E-07	3.91E-07	5.4187E-04
519967.12	4258683.15	28430.92084	0.66159	0.93715	0.75594	0.87606	5.40E-04	1.55E-06	1.92E-06	1.77E-06	1.72E-06	5.4739E-04
520119.31	4258282.44	28417.51476	0.24746	7.67211	0.25389	8.99117	5.40E-04	5.81E-07	1.57E-05	5.96E-07	1.77E-05	5.7478E-04
520605.17	4258421.21	28408.84953	0.14684	0.16306	0.14564	0.17079	5.40E-04	3.49E-07	3.34E-07	3.42E-07	3.36E-07	5.4136E-04
520591.03	4258206.91	28403.96514	0.13565	0.18577	0.13523	0.19457	5.40E-04	3.18E-07	3.81E-07	3.17E-07	3.83E-07	5.4131E-04
520582.48	4258895.28	28362.25321	0.1934	0.11455	0.18699	0.11933	5.39E-04	4.54E-07	2.35E-07	4.39E-07	2.35E-07	5.4048E-04
520569.96	4258920.48	28360.18034	0.20372	0.11362	0.19668	0.11858	5.39E-04	4.78E-07	2.33E-07	4.62E-07	2.33E-07	5.4048E-04
519943.15	4258818.26	28329.46027	0.71866	0.48146	0.79565	0.46335	5.38E-04	1.69E-06	9.87E-07	1.87E-06	9.12E-07	5.4395E-04
520629.33	4258745.15	28322.19506	0.15505	0.1243	0.14929	0.12904	5.38E-04	3.64E-07	2.55E-07	3.50E-07	2.54E-07	5.3958E-04
520598.18	4259480.46	28318.75977	0.15507	0.16216	0.15061	0.17023	5.38E-04	3.64E-07	3.33E-07	3.54E-07	3.35E-07	5.3967E-04
519944.16	4258868.92	28276.81311	0.79249	0.39879	0.87663	0.38865	5.37E-04	1.86E-06	8.18E-07	2.06E-06	7.65E-07	5.4299E-04
520138.98	4258252.5	28242.72671	0.23061	4.9968	0.2344	5.7973	5.37E-04	5.41E-07	1.02E-05	5.50E-07	1.14E-05	5.5959E-04
520610.59	4258357.85	28242.26534	0.14235	0.16418	0.14014	0.17229	5.37E-04	3.34E-07	3.37E-07	3.29E-07	3.39E-07	5.3817E-04
519950.1	4258913.35	28183.23467	0.89965	0.34498	0.99588	0.33918	5.36E-04	2.11E-06	7.08E-07	2.34E-06	6.68E-07	5.4154E-04
520539.87	4258972.96	28183.00633	0.23036	0.11305	0.2217	0.11806	5.36E-04	5.41E-07	2.32E-07	5.20E-07	2.32E-07	5.3723E-04
520625.11	4258779.18	28180.6478	0.15968	0.12133	0.1539	0.12556	5.36E-04	3.75E-07	2.49E-07	3.61E-07	2.47E-07	5.3690E-04
520286.25	4258112.96	28168.93268	0.17673	0.97142	0.18677	1.05492	5.35E-04	4.15E-07	1.99E-06	4.38E-07	2.08E-06	5.4036E-04
520604.24	4258252.61	28162.2107	0.13566	0.17589	0.13451	0.18321	5.35E-04	3.18E-07	3.61E-07	3.16E-07	3.61E-07	5.3667E-04
520256.82	4258132.87	28150.53498	0.18353	1.22607	0.19269	1.33991	5.35E-04	4.31E-07	2.51E-06	4.52E-07	2.64E-06	5.4113E-04
520084.96	4259127.18	28140.38529	15.52793	0.23098	19.02608	0.21864	5.35E-04	3.65E-05	4.74E-07	4.47E-05	4.30E-07	6.1692E-04
520197.93	4258182.69	28100.50236	0.20038	2.1567	0.20506	2.40895	5.34E-04	4.70E-07	4.42E-06	4.81E-07	4.74E-06	5.4426E-04
520188.11	4258192.66	28099.73112	0.20406	2.41554	0.20806	2.71161	5.34E-04	4.79E-07	4.95E-06	4.88E-07	5.34E-06	5.4538E-04
519951.95	4258924.11	28093.21584	0.93018	0.33381	1.03038	0.32868	5.34E-04	2.18E-06	6.85E-07	2.42E-06	6.47E-07	5.3994E-04
520029.52	4258531.09	28085.34454	0.67132	3.92845	0.78019	3.20825	5.34E-04	1.58E-06	8.06E-06	1.83E-06	6.32E-06	5.5163E-04
520610.36	4258383.1	28082.16998	0.14426	0.16275	0.1415	0.17052	5.34E-04	3.39E-07	3.34E-07	3.32E-07	3.36E-07	5.3513E-04
520585.48	4258184.51	28064.15133	0.13521	0.18999	0.13569	0.19954	5.33E-04	3.17E-07	3.90E-07	3.19E-07	3.93E-07	5.3487E-04
520549.29	4258959.06	28050.02133	0.22144	0.11276	0.2133	0.11777	5.33E-04	5.20E-07	2.31E-07	5.01E-07	2.32E-07	5.3466E-04
520602.98	4258242.06	28048.07024	0.13513	0.1771	0.13395	0.18456	5.33E-04	3.17E-07	3.63E-07	3.14E-07	3.63E-07	5.3450E-04
520207.75	4258172.72	28045.99523	0.19672	1.93869	0.2021	2.15627	5.33E-04	4.62E-07	3.98E-06	4.74E-07	4.24E-06	5.4226E-04
519989.89	4258618.53	28036.40424	0.67422	1.47729	0.78852	1.35068	5.33E-04	1.58E-06	3.03E-06	1.85E-06	2.66E-06	5.4204E-04
520178.29	4258202.63	28015.28992	0.20768	2.72821	0.21112	3.07762	5.33E-04	4.88E-07	5.60E-06	4.96E-07	6.06E-06	5.4516E-04
520608.71	4258274.55	27971.33122	0.13616	0.17174	0.1352	0.17904	5.32E-04	3.20E-07	3.52E-07	3.17E-07	3.52E-07	5.3303E-04
520631.3	4258692.56	27969.62689	0.15058	0.13073	0.14498	0.13547	5.32E-04	3.54E-07	2.68E-07	3.40E-07	2.67E-07	5.3288E-04
520607.5	4258264.02	27944.95626	0.13563	0.17318	0.13456	0.1804	5.31E-04	3.18E-07	3.55E-07	3.16E-07	3.55E-07	5.3253E-04
520610.02	4258285.13	27936.61329	0.13665	0.17014	0.13576	0.17759	5.31E-04	3.21E-07	3.49E-07	3.19E-07	3.50E-07	5.3236E-04
519953.66	4258934.81	27933.87065	0.95938	0.32313	1.06346	0.31856	5.31E-04	2.25E-06	6.63E-07	2.50E-06	6.27E-07	5.3701E-04
520601.46	4258463.23	27932.8972	0.15277	0.1617	0.1488	0.1697	5.31E-04	3.59E-07	3.32E-07	3.49E-07	3.34E-07	5.3233E-04
520099.64	4258312.38	27931.524	0.2645	14.38467	0.27573	15.31853	5.31E-04	6.21E-07	2.95E-05	6.47E-07	3.02E-05	5.9185E-04
520217.57	4258162.75	27928.62509	0.19304	1.75331	0.19915	1.94212	5.31E-04	4.53E-07	3.60E-06	4.68E-07	3.82E-06	5.3921E-04
520558.88	4258945.08	27924.11751	0.21311	0.11253	0.20549	0.11751	5.31E-04	5.00E-07	2.31E-07	4.82E-07	2.31E-07	5.3223E-04
520094.88	4259137.17	27891.188	12.66773	0.22792	11.77934	0.21461	5.30E-04	2.97E-05	4.67E-07	2.77E-05	4.22E-07	5.8844E-04
520168.47	4258212.6	27876.75029	0.21133	3.1097	0.21431	3.53184	5.30E-04	4.96E-07	6.38E-06	5.03E-07	6.95E-06	5.4422E-04
520601.82	4258231.55	27876.01049	0.13455	0.17819	0.13344	0.18583	5.30E-04	3.16E-07	3.65E-07	3.13E-07	3.66E-07	5.3123E-04
520628.72	4258770.56	27867.10616	0.15717	0.12141	0.15146	0.1257	5.30E-04	3.69E-07	2.49E-07	3.56E-07	2.47E-07	5.3092E-04
520525.7	4258998.84	27861.99259	0.24477	0.11247	0.23532	0.11743	5.30E-04	5.75E-07	2.31E-07	5.52E-07	2.31E-07	5.3120E-04
520596.02	4258872.6	27853.51096	0.183	0.11472	0.17706	0.11925	5.29E-04	4.30E-07	2.35E-07	4.16E-07	2.35E-07	5.3076E-04
520611.47	4258295.76	27841.53692	0.13709	0.16826	0.13618	0.17591	5.29E-04	3.22E-07	3.45E-07	3.20E-07	3.46E-07	5.3055E-04
520599.6	4258864.04	27839.56553	0.18024	0.11513	0.17412	0.1196	5.29E-04	4.23E-07	2.36E-07	4.09E-07	2.35E-07	5.3048E-04
520535.28	4258984.87	27815.11624	0.235	0.11235	0.2261	0.1173	5.29E-04	5.52E-07	2.30E-07	5.31E-07	2.31E-07	5.3026E-04
520581.2	4258905.82	27813.78359	0.19476	0.11312	0.18827	0.11791	5.29E-04	4.57E-07	2.32E-07	4.42E-07	2.32E-07	5.3005E-04
520603.18	4258855.48	27813.06286	0.1775	0.11547	0.1716	0.1199	5.29E-04	4.17E-07	2.37E-07	4.03E-07	2.36E-07	5.2997E-04
520632.97	4258736.45	27781.71358	0.15262	0.12419	0.14701	0.12897	5.28E-04	3.58E-07	2.55E-07	3.45E-07	2.54E-07	5.2929E-04
519957.88	4258709.1	27771.67634	0.644	0.79196	0.72629	0.74641	5.28E-04	1.51E-06	1.62E-06	1.71E-06	1.47E-06	5.3439E-04
520050.29	4258455.9	27771.76966	0.45467	8.40345	0.49504	5.95118	5.28E-04	1.07E-06	1.72E-05	1.16E-06	1.17E-05	5.5907E-04
520266.64	4258122.9	27769.36693	0.17961	1.13125	0.18908	1.23339	5.28E-04	4.22E-07	2.32E-06	4.44E-07	2.43E-06	5.3346E-04
520606.77	4258846.93	27769.32782	0.17475	0.11584	0.16891	0.12022	5.28E-04	4.10E-07	2.38E-07	3.97E-07	2.37E-07	5.2913E-04
519944.31	4258893.39	27758.40357	0.82017	0.3652	0.90607	0.35769	5.28E-04	1.93E-06	7.49E-07	2.13E-06	7.04E-07	5.3314E-04
520227.39	4258152.78	27737.51884	0.18931	1.59437	0.19614	1.75823	5.27E-04	4.44E-07	3.27E-06	4.60E-07	3.46E-06	5.3488E-04
520568.67	4258931.02	27733.69225	0.20499	0.11226	0.19788	0.11717	5.27E-04	4.81E-07	2.30E-07	4.65E-07	2.31E-07	5.2857E-04
519955.25	4258945.46	27716.32044	0.98738	0.31291	1.09527	0.30882	5.27E-04	2.32E-06	6.42E-07	2.57E-06	6.08E-07	5.3298E-04
520610.35	4258838.37	27710.39394	0.17205	0.11639	0.16634	0.12071	5.27E-04	4.04E-07	2.39E-07	3.91E-07	2.38E-07	5.2800E-04
520129.16	4258262.47	27697.99358	0.23404	6.09769	0.23856	7.13881	5.26E-04	5.49E-07	1.25E-05	5.60E-07	1.41E-05	5.5416E-04
519942.4	4258792.34	27696.22017	0.67329	0.53008	0.74507	0.50712	5.26E-04	1.58E-06	1.09E-06	1.75E-06	9.98E-07	5.3187E-04
520053.34	4259105.75	27694.86895	7.23313	0.23162	11.83937	0.22392	5.26E-04	1.70E-05	4.75E-07	2.78E-05	4.41E-07	5.7212E-04
520043.01	4259095.77	27688.06454	5.09162	0.23346	7.00506	0.2271	5.26E-04	1.20E-05	4.79E-07	1.64E-05	4.47E-07	5.5563E-04
520600.74	4258221.08	27682.22474	0.13399	0.17902	0.13301	0.18695	5.26E-04	3.15E-07	3.67E-07	3.12E-07	3.68E-07	5.2755E-04
520584.59	4258174.11	27676.41057	0.13448	0.19078	0.13533	0.20055	5.26E-04	3.16E-07	3.91E-07	3.18E-07	3.95E-07	5.2750E-04
520613.06	4258306.46	27673.04476	0.13747	0.16623	0.13644	0.17408	5.26E-04	3.23E-07	3.41E-07	3.20E-07	3.43E-07	5.2734E-04
519940.03	4258834.84	27663.95346	0.71342	0.44753	0.78843	0.4322	5.26E-04	1.67E-06	9.18E-07	1.85E-06	8.51E-07	5.3114E-04
519958.3	4258956.71	27652.91168	1.03445	0.30348	1.14996	0.29979	5.26E-04	2.43E-06	6.22E-07	2.70E-06	5.90E-07	5.3197E-04
520610.3	4258408.81	27646.01308	0.14598	0.16118	0.14288	0.16873	5.26E-04	3.43E-07	3.31E-07	3.35E-07	3.32E-07	5.2684E-04
520158.65	4258222.57	27636.98135	0.21487	3.58758	0.21764	4.10158	5.25E-04	5.04E-07	7.36E-06	5.11E-07	8.07E-06	5.4178E-04
519940.49	4258860.07	27635.17538	0.74811	0.40804	0.82671	0.39653	5.25E-04	1.76E-06	8.37E-07	1.94E-06	7.81E-07	5.3061E-04
520613.93	4258829.81	27630.67172	0.16938	0.11684	0.16374	0.12108	5.25E-04	3.98E-07	2.40E-07	3.84E-07	2.38E-07	5.2647E-04
520614.34	4258341.83	27566.58129	0.13979	0.16307	0.13795	0.17115	5.24E-04	3.28E-07	3.34E-07	3.24E-07	3.37E-07	5.2531E-04
520634.33	4258709.28	27564.87933	0.15016	0.12722	0.14467	0.13203	5.24E-04	3.53E-07	2.61E-07	3.40E-07	2.60E-07	5.2517E-04
520109.49	4258292.41	27563.92643	0.25039	10.13268	0.25855	11.69529	5.24E-04	5.88E-07	2.08E-05	6.07E-07	2.30E-05	5.6894E-04
520237.21	4258142.81	27537.48385	0.18571	1.45586	0.19313	1.60058	5.23E-04	4.36E-07	2.99E-06	4.53E-07	3.15E-06	5.3046E-04
520613.99	4258366.77	27530.23864	0.14176	0.16155	0.13923	0.16942	5.23E-04	3.33E-07	3.31E-07	3.27E-07	3.34E-07	5.2462E-04
520617.51	4258821.26	27526.94163	0.16675	0.11722	0.16117	0.12139	5.23E-04	3.91E-07	2.40E-07	3.78E-07	2.39E-07	5.2449E-04
520595.42	4258198.77	27516.13011	0.13363	0.18284	0.13331	0.19155	5.23E-04	3.14E-07	3.75E-07	3.13E-07	3.77E-07	5.2441E-04
520632.33	4258761.93	27506.56169	0.15473	0.12139	0.14909	0.12578	5.23E-04	3.63E-07	2.49E-07	3.50E-07	2.48E-07	5.2406E-04
520019.6	4258550.53	27459.82534	0.68419	2.97292	0.80953	2.51846	5.22E-04	1.61E-06	6.10E-06	1.90E-06	4.96E-06	5.3652E-04
520608.47	4258429.88	27458.23525	0.148	0.16054	0.14464	0.16817	5.22E-04	3.47E-07	3.29E-07	3.40E-07	3.31E-07	5.2328E-04
520057.08	4258415.76	27448.96678	0.36667	11.88426	0.39541	7.52444	5.22E-04	8.61E-07	2.44E-05	9.28E-07	1.48E-05	5.6273E-04
520599.75	4258210.64	27437.19612	0.13339	0.17981	0.13263	0.18802	5.22E-04	3.13E-07	3.69E-07	3.11E-07	3.70E-07	5.2289E-04
520578.69	4258916.87	27406.65312	0.19699	0.11197	0.19038	0.11677	5.22E-04	4.62E-07	2.30E-07	4.20E-07	2.30E-07	5.2232E-04
520276.46	4258112.93	27402.68904	0.17588	1.04859	0.18549	1.13968	5.21E-04	4.13E-07	2.15E-06	4.35E-07	2.24E-06	5.2612E-04
520621.1	4258812.7	27396.93169	0.16416	0.11755	0.1586	0.12166	5.21E-04	3.85E-07	2.41E-07	3.72E-07	2.39E-07	5.2200E-04
520590.99	4258891.76	27365.80788	0.18728	0.1129	0.18121	0.11751	5.20E-04	4.40E-07	2.32E-07	4.25E-07	2.31E-07	5.2150E-04
519959.92	4258967.37	27361.92278	1.06385	0.29419	1.18396	0.29085	5.20E-04	2.50E-06	6.03E-07	2.78E-06	5.73E-07	5.2655E-04
520548.37	4258969.45	27354.25117	0.22244	0.1114	0.21427	0.11631	5.20E-04	5.22E-07	2.28E-07	5.03E-07	2.29E-07	5.2144E-04
520148.83	4258232.53	27319.36723	0.21835	4.1977	0.22112	4.84025	5.19E-04	5.13E-07	8.61E-06	5.19E-07	9.53E-06	5.3846E-04
519939.41	4258809.25	27297.74038	0.6738	0.49127	0.7433	0.47172	5.19E-04	1.58E-06	1.01E-06	1.75E-06	9.29E-07	5.2414E-04
519977.12	4258646.05	27291.23633	0.64282	1.16867	0.7375	1.08375	5.19E-04	1.51E-06	2.40E-06	1.73E-06	2.13E-06	5.2653E-04
519967.12	4258673.87	27285.32447	0.63489	0.96834	0.72391	0.9046	5.19E-04	1.49E-06	1.99E-06	1.70E-06	1.78E-06	5.2560E-04
520613.79	4258392.11	27274.69901	0.14355	0.16034	0.1406	0.16787	5.18E-04	3.37E-07	3.29E-07	3.30E-07	3.30E-07	5.1977E-04
520084.98	4259137.18	27268.55673	15.37999	0.22491	18.93128	0.21303	5.18E-04	3.61E-05	4.61E-07	4.44E-05	4.19E-07	5.9976E-04
519943.46	4258770.77	27265.29979	0.64668	0.57743	0.71605	0.55047	5.18E-04	1.52E-06	1.18E-06	1.68E-06	1.08E-06	5.2373E-04
520247.03	4258132.84	27261.20776	0.18202	1.33526	0.19002	1.46246	5.18E-04	4.27E-07	2.74E-06	4.46E-07	2.88E-06	5.2468E-04
519940.52	4258884.25	27259.08204	0.77518	0.37372	0.8546	0.36522	5.18E-04	1.82E-06	7.66E-07	2.01E-06	7.19E-07	5.2346E-04
520636.62	4258727.75	27252.83194	0.15032	0.12418	0.14488	0.12894	5.18E-04	3.53E-07	2.55E-07	3.40E-07	2.54E-07	5.1923E-04
519946.47	4258753.92	27243.4916	0.6377	0.62485	0.71251	0.59313	5.18E-04	1.50E-06	1.28E-06	1.67E-06	1.17E-06	5.2347E-04
520624.68	4258804.14	27239.18476	0.16161	0.11785	0.15608	0.1219	5.18E-04	3.79E-07	2.42E-07	3.66E-07	2.40E-07	5.1900E-04
520557.84	4258955.52	27224.22289	0.21404	0.11114	0.20637	0.11603	5.17E-04	5.02E-07	2.28E-07	4.84E-07	2.28E-07	5.1893E-04
520594.4	4258188.32	27208.81692	0.133	0.18362	0.13304	0.19261	5.17E-04	3.12E-07	3.77E-07	3.12E-07	3.79E-07	5.1857E-04
519949.36	4258736.79	27142.21194	0.63057	0.67632	0.70474	0.64095	5.16E-04	1.48E-06	1.39E-06	1.65E-06	1.26E-06	5.2171E-04
520635.94	4258753.3	27098.16987	0.15234	0.12131	0.14681	0.12579	5.15E-04	3.58E-07	2.49E-07	3.45E-07	2.48E-07	5.1629E-04
520534.39	4258995.25	27088.61155	0.23599	0.11092	0.22707	0.11577	5.15E-04	5.54E-07	2.27E-07	5.33E-07	2.28E-07	5.1645E-04
520567.49	4258941.52	27082.24116	0.20609	0.11091	0.19892	0.11576	5.15E-04	4.84E-07	2.27E-07	4.67E-07	2.28E-07	5.1619E-04
519960.75	4258691.89	27068.38764	0.62655	0.86139	0.70889	0.8093	5.15E-04	1.47E-06	1.77E-06	1.66E-06	1.59E-06	5.2102E-04
520628.26	4258795.59	27048.53939	0.15911	0.11812	0.15361	0.12214	5.14E-04	3.74E-07	2.42E-07	3.61E-07	2.40E-07	5.1536E-04
520119.34	4258272.44	27031.18079	0.23713	7.68679	0.24286	9.04061	5.14E-04	5.57E-07	1.58E-05	5.70E-07	1.78E-05	5.4850E-04
520604.84	4258472.09	27006.86845	0.1517	0.15928	0.14744	0.16713	5.13E-04	3.56E-07	3.27E-07	3.46E-07	3.29E-07	5.1471E-04
520544.02	4258881.26	26991.85409	0.22659	0.1107	0.21819	0.11554	5.13E-04	5.32E-07	2.27E-07	5.12E-07	2.27E-07	5.1457E-04
520009.69	4258569.96	26980.96469	0.67937	2.32234	0.81052	2.02174	5.13E-04	1.59E-06	4.76E-06	1.90E-06	3.98E-06	5.2510E-04
520095.31	4259147.99	26975.83372	12.42387	0.22163	11.55381	0.20878	5.13E-04	2.92E-05	4.55E-07	2.71E-05	4.11E-07	5.6992E-04
520256.85	4258122.87	26962.40632	0.17839	1.22892	0.18685	1.34172	5.13E-04	4.19E-07	2.52E-06	4.39E-07	2.64E-06	5.1853E-04
519936.82	4258851.23	26933.1338	0.70616	0.41706	0.77868	0.40417	5.12E-04	1.66E-06	8.55E-07	1.83E-06	7.96E-07	5.1709E-04
520043.44	4259105.77	26924.54648	5.20521	0.22732	7.14831	0.22113	5.12E-04	1.22E-05	4.66E-07	1.68E-05	4.35E-07	5.4169E-04
520617.71	4258350.66	26924.30707	0.13923	0.16064	0.13707	0.16852	5.12E-04	3.27E-07	3.29E-07	3.22E-07	3.32E-07	5.1309E-04
520637.83	4258700.92	26918.43397	0.14806	0.12728	0.14267	0.13193	5.12E-04	3.48E-07	2.61E-07	3.35E-07	2.60E-07	5.1287E-04
520613.22	4258256.46	26898.23935	0.13318	0.17007	0.13203	0.17702	5.11E-04	3.13E-07	3.49E-07	3.10E-07	3.48E-07	5.1261E-04
520593.45	4258177.9	26882.95095	0.13236	0.18435	0.13276	0.19361	5.11E-04	3.11E-07	3.78E-07	3.12E-07	3.81E-07	5.1238E-04
520139.01	4258242.5	26877.61037	0.22159	5.00612	0.22482	5.80904	5.11E-04	5.20E-07	1.03E-05	5.28E-07	1.14E-05	5.3364E-04
520589.65	4258902.32	26874.58234	0.18862	0.11154	0.1825	0.11616	5.11E-04	4.43E-07	2.29E-07	4.28E-07	2.29E-07	5.1217E-04
520053.36	4259115.75	26867.38762	7.31064	0.22539	11.90904	0.21798	5.11E-04	1.72E-05	4.62E-07	2.80E-05	4.29E-07	5.5671E-04
520611.88	4258245.87	26863.19484	0.13272	0.17131	0.13148	0.17833	5.11E-04	3.12E-07	3.51E-07	3.09E-07	3.51E-07	5.1194E-04
520577.34	4258927.43	26855.53143	0.19827	0.11064	0.19158	0.1154	5.10E-04	4.65E-07	2.27E-07	4.50E-07	2.27E-07	5.1184E-04
520039.4	4258501.95	26844.93713	0.58784	5.41337	0.65921	4.24396	5.10E-04	1.38E-06	1.11E-05	1.55E-06	8.35E-06	5.3266E-04
520631.84	4258787.03	26822.2246	0.15665	0.11834	0.15119	0.12236	5.10E-04	3.68E-07	2.43E-07	3.55E-07	2.41E-07	5.1105E-04
520197.96	4258172.69	26815.868	0.1937	2.16097	0.19763	2.41194	5.10E-04	4.55E-07	4.43E-06	4.64E-07	4.75E-06	5.1982E-04
520188.14	4258182.66	26807.67916	0.1971	2.41987	0.20038	2.71551	5.10E-04	4.63E-07	4.96E-06	4.70E-07	5.35E-06	5.2081E-04
520617.39	4258375.69	26806.6119	0.14112	0.15912	0.13834	0.16673	5.10E-04	3.31E-07	3.26E-07	3.25E-07	3.28E-07	5.1086E-04
520207.78	4258162.72	26783.87106	0.19035	1.9425	0.19495	2.15911	5.09E-04	4.47E-07	3.98E-06	4.58E-07	4.25E-06	5.1825E-04
519936.33	4258825.92	26778.66908	0.67124	0.45685	0.73933	0.44009	5.09E-04	1.58E-06	9.37E-07	1.74E-06	8.66E-07	5.1413E-04
520610.66	4258235.33	26759.58735	0.13219	0.17247	0.13096	0.17962	5.09E-04	3.10E-07	3.54E-07	3.07E-07	3.54E-07	5.0998E-04
519952.12	4258719.32	26734.78615	0.61744	0.7331	0.69152	0.69332	5.08E-04	1.45E-06	1.50E-06	1.62E-06	1.36E-06	5.1412E-04
520613.77	4258417.94	26726.20483	0.14516	0.15857	0.1419	0.16599	5.08E-04	3.41E-07	3.25E-07	3.33E-07	3.27E-07	5.0934E-04
520608.24	4258455.15	26724.92555	0.14944	0.1587	0.14559	0.16643	5.08E-04	3.51E-07	3.25E-07	3.42E-07	3.28E-07	5.0934E-04
519942.96	4258920.4	26720.8677	0.83299	0.33143	0.91714	0.32608	5.08E-04	1.96E-06	6.80E-07	2.14E-06	6.42E-07	5.1335E-04
520178.32	4258192.63	26704.01499	0.20038	2.73362	0.2032	3.08093	5.08E-04	4.70E-07	5.61E-06

520109.52	4258282.41	26236.21276	0.23973	10.15774	0.24714	11.75557	4.99E-04	5.63E-07	2.08E-05	5.80E-07	2.31E-05	5.4382E-04
520620.83	4258837.28	26230.64942	0.1658	0.11381	0.16047	0.11791	4.99E-04	3.89E-07	2.33E-07	3.77E-07	2.32E-07	4.9983E-04
520552.76	4258977.64	26216.3725	0.21871	0.10911	0.21079	0.11385	4.98E-04	5.13E-07	2.24E-07	4.95E-07	2.24E-07	4.9978E-04
519935.68	4258800.24	26206.34413	0.63136	0.50032	0.69399	0.47959	4.98E-04	1.48E-06	1.03E-06	1.63E-06	9.44E-07	5.0322E-04
520639.01	4258769.92	26190.85145	0.15182	0.11828	0.14642	0.12243	4.98E-04	3.56E-07	2.43E-07	3.44E-07	2.41E-07	4.9902E-04
520641.33	4258692.55	26181.68131	0.14593	0.12729	0.14062	0.13177	4.98E-04	3.43E-07	2.61E-07	3.30E-07	2.59E-07	4.9886E-04
520608.22	4258480.96	26180.95342	0.15061	0.15697	0.14606	0.16462	4.98E-04	3.54E-07	3.22E-07	3.43E-07	3.24E-07	4.9900E-04
519933.15	4258842.38	26173.25517	0.66643	0.4258	0.73265	0.41156	4.98E-04	1.56E-06	8.73E-07	1.72E-06	8.10E-07	5.0247E-04
520095.33	4259157.99	26143.8389	12.33657	0.21597	11.51765	0.20358	4.97E-04	2.90E-05	4.43E-07	2.70E-05	4.01E-07	5.5379E-04
520624.38	4258828.79	26143.57436	0.16331	0.11414	0.158	0.11819	4.97E-04	3.83E-07	2.34E-07	3.71E-07	2.33E-07	4.9816E-04
520643.17	4258736.05	26142.53598	0.14776	0.12124	0.14255	0.12579	4.97E-04	3.47E-07	2.49E-07	3.35E-07	2.48E-07	4.9810E-04
520043.46	4259115.77	26127.53376	5.24457	0.22125	7.17551	0.21528	4.97E-04	1.23E-05	4.54E-07	1.68E-05	4.24E-07	5.2667E-04
520247.06	4259122.84	26119.54325	0.17683	1.33794	0.18406	1.46439	4.96E-04	4.15E-07	2.74E-06	4.32E-07	2.88E-06	5.0296E-04
519989.85	4258608.84	26111.20312	0.6371	1.51554	0.74521	1.38437	4.96E-04	1.50E-06	3.11E-06	1.75E-06	2.73E-06	5.0541E-04
520055.26	4259127.23	26076.2879	7.91443	0.21933	13.65884	0.21194	4.96E-04	1.86E-05	4.50E-07	3.21E-05	4.17E-07	5.4718E-04
520620.78	4258384.62	26074.73393	0.14043	0.15699	0.13749	0.16433	4.96E-04	3.30E-07	3.22E-07	3.23E-07	3.23E-07	4.9693E-04
519967.12	4258664.6	26069.13946	0.60798	0.99823	0.69188	0.93199	4.96E-04	1.43E-06	2.05E-06	1.62E-06	1.83E-06	5.0246E-04
519932.94	4258865.97	26061.02349	0.6913	0.39106	0.75969	0.38009	4.95E-04	1.62E-06	8.02E-07	1.78E-06	7.48E-07	5.0033E-04
520602.3	4258181.69	26056.68456	0.19021	0.1783	0.13018	0.18702	4.95E-04	3.06E-07	3.66E-07	3.08E-07	3.68E-07	4.9664E-04
520627.94	4258820.29	26034.20002	0.16083	0.11451	0.15557	0.11848	4.95E-04	3.78E-07	2.35E-07	3.65E-07	2.33E-07	4.9607E-04
520148.86	4258222.53	26029.34724	0.21018	4.20561	0.21247	4.84596	4.95E-04	4.93E-07	8.63E-06	4.99E-07	9.54E-06	5.1393E-04
520586	4258923.84	25993.60261	0.19186	0.10907	0.18557	0.11368	4.94E-04	4.50E-07	2.24E-07	4.36E-07	2.24E-07	4.9542E-04
520643.91	4258710.34	25992.23429	0.14584	0.12409	0.14067	0.12866	4.94E-04	3.42E-07	2.54E-07	3.30E-07	2.53E-07	4.9525E-04
520598.1	4258898.82	25963.70019	0.18275	0.11	0.17697	0.11445	4.94E-04	4.29E-07	2.26E-07	4.15E-07	2.25E-07	4.9482E-04
520631.5	4258811.8	25900.16578	0.15839	0.11485	0.15317	0.11876	4.92E-04	3.72E-07	2.36E-07	3.60E-07	2.34E-07	4.9352E-04
520642.59	4258761.36	25894.41089	0.1496	0.11838	0.14431	0.1226	4.92E-04	3.51E-07	2.43E-07	3.39E-07	2.41E-07	4.9338E-04
519939.82	4258762.01	25854.67519	0.60233	0.58525	0.66561	0.55764	4.91E-04	1.41E-06	1.20E-06	1.56E-06	1.10E-06	4.9673E-04
520256.88	4258112.87	25843.47367	0.17344	1.23147	0.1812	1.34313	4.91E-04	4.07E-07	2.53E-06	4.25E-07	2.64E-06	4.9724E-04
519933.52	4258891.5	25837.87121	0.72212	0.35804	0.7924	0.35007	4.91E-04	1.70E-06	7.34E-07	1.86E-06	6.89E-07	4.9611E-04
519932.63	4258817	25834.67934	0.6313	0.46541	0.69247	0.44751	4.91E-04	1.48E-06	9.55E-07	1.63E-06	8.81E-07	4.9601E-04
520611.58	4258463.91	25826.45038	0.14843	0.15633	0.14432	0.16394	4.91E-04	3.48E-07	3.21E-07	3.39E-07	3.23E-07	4.9224E-04
520565.36	4258962.41	25805.72147	0.20791	0.10827	0.20063	0.11296	4.91E-04	4.88E-07	2.22E-07	4.71E-07	2.22E-07	4.9192E-04
520617.25	4258427.06	25803.36852	0.1443	0.15597	0.14086	0.16331	4.90E-04	3.39E-07	3.20E-07	3.31E-07	3.21E-07	4.9179E-04
519977.12	4258636.77	25776.8955	0.61172	1.1995	0.7	1.11302	4.90E-04	1.44E-06	2.46E-06	1.64E-06	2.19E-06	4.9770E-04
519954.29	4258700.45	25758.59544	0.59322	0.79508	0.66501	0.7504	4.90E-04	1.39E-06	1.63E-06	1.56E-06	1.48E-06	4.9566E-04
520635.05	4258803.31	25739.6893	0.15599	0.11517	0.15082	0.11902	4.89E-04	3.66E-07	2.36E-07	3.54E-07	2.34E-07	4.9046E-04
520119.37	4258262.44	25732.71182	0.22745	7.70584	0.23266	9.04117	4.89E-04	5.34E-07	1.58E-05	5.46E-07	1.78E-05	5.2381E-04
520029.48	4258521.39	25713.45453	0.61609	3.97682	0.70406	3.25444	4.89E-04	1.45E-06	8.16E-06	1.65E-06	6.41E-06	5.0643E-04
519942.8	4258745.07	25702.12254	0.59329	0.63163	0.65944	0.60008	4.89E-04	1.39E-06	1.30E-06	1.55E-06	1.18E-06	4.9397E-04
520624.83	4258343.51	25700.07873	0.13623	0.15716	0.13411	0.16481	4.89E-04	3.20E-07	3.22E-07	3.15E-07	3.24E-07	4.8979E-04
520620.79	4258249.68	25660.77268	0.13029	0.1659	0.12908	0.17251	4.88E-04	3.06E-07	3.40E-07	3.03E-07	3.40E-07	4.8905E-04
520574.94	4258948.44	25645.84751	0.2003	0.10802	0.19349	0.11267	4.87E-04	4.70E-07	2.22E-07	4.54E-07	2.22E-07	4.8885E-04
520619.5	4258239.12	25637.30293	0.12984	0.16703	0.12856	0.17373	4.87E-04	3.05E-07	3.43E-07	3.02E-07	3.42E-07	4.8861E-04
520622.2	4258260.3	25628.31896	0.13069	0.16458	0.1296	0.17118	4.87E-04	3.07E-07	3.38E-07	3.04E-07	3.37E-07	4.8843E-04
520139.04	4258232.5	25627.03687	0.21318	5.01367	0.2159	5.82424	4.87E-04	5.00E-07	1.03E-05	5.07E-07	1.15E-05	5.0988E-04
520625.51	4258319.42	25625.67419	0.13431	0.15816	0.13281	0.16579	4.87E-04	3.15E-07	3.24E-07	3.12E-07	3.26E-07	4.8838E-04
520197.99	4258162.69	25621.2753	0.18737	2.16468	0.19063	2.41454	4.87E-04	4.40E-07	4.44E-06	4.48E-07	4.75E-06	4.9709E-04
520624.44	4258368.34	25616.98366	0.13804	0.15602	0.13533	0.1634	4.87E-04	3.24E-07	3.20E-07	3.18E-07	3.22E-07	4.8822E-04
520620.66	4258410.15	25615.82311	0.14202	0.15547	0.13877	0.16266	4.87E-04	3.33E-07	3.19E-07	3.26E-07	3.20E-07	4.8821E-04
520551.75	4258988.06	25609.92361	0.2198	0.10786	0.21183	0.1125	4.87E-04	5.16E-07	2.21E-07	4.97E-07	2.21E-07	4.8825E-04
520188.17	4258172.66	25605.20002	0.19051	2.42372	0.19317	2.71882	4.87E-04	4.47E-07	4.97E-06	4.54E-07	5.35E-06	4.9793E-04
520646.78	4258727.42	25602.55578	0.14553	0.12127	0.14051	0.12577	4.87E-04	3.42E-07	2.49E-07	3.30E-07	2.48E-07	4.8783E-04
520613.37	4258206.46	25600.10261	0.12906	0.17121	0.12809	0.17875	4.87E-04	3.03E-07	3.51E-07	3.01E-07	3.52E-07	4.8792E-04
520085.43	4259158.01	25591.79397	16.40962	0.21316	18.29117	0.2021	4.86E-04	3.85E-05	4.37E-07	4.29E-05	3.98E-07	5.6876E-04
520596.15	4258909.64	25577.70311	0.18441	0.1088	0.17856	0.11327	4.86E-04	4.33E-07	2.23E-07	4.19E-07	2.23E-07	4.8748E-04
520207.81	4258152.72	25575.853	0.18419	1.94677	0.18815	2.15986	4.86E-04	4.32E-07	3.99E-06	4.42E-07	4.25E-06	4.9527E-04
520618.3	4258228.59	25560.0225	0.12936	0.16803	0.12808	0.17488	4.86E-04	3.04E-07	3.45E-07	3.01E-07	3.44E-07	4.8714E-04
520638.61	4258794.82	25546.36443	0.15364	0.11539	0.14849	0.11922	4.86E-04	3.61E-07	2.37E-07	3.49E-07	2.35E-07	4.8677E-04
520039.36	4258492.26	25512.17175	0.5417	5.45468	0.60135	4.27519	4.85E-04	1.27E-06	1.12E-05	1.41E-06	8.42E-06	5.0723E-04
520217.63	4258142.75	25511.03479	0.18111	1.76051	0.18572	1.94583	4.85E-04	4.25E-07	3.61E-06	4.36E-07	3.83E-06	4.9322E-04
520042.98	4258473.67	25501.90201	0.48518	6.2486	0.53192	4.74921	4.85E-04	1.14E-06	1.28E-05	1.25E-06	9.35E-06	5.0903E-04
520646.17	4258752.8	25501.63933	0.14736	0.1184	0.14222	0.1227	4.85E-04	3.46E-07	2.43E-07	3.34E-07	2.42E-07	4.8590E-04
520178.35	4258182.63	25495.533	0.19353	2.73799	0.19577	3.08464	4.85E-04	4.54E-07	5.62E-06	4.60E-07	6.07E-06	4.9723E-04
520561.49	4258974.02	25467.23512	0.21125	0.10755	0.20378	0.11218	4.84E-04	4.96E-07	2.21E-07	4.78E-07	2.21E-07	4.8550E-04
520617.19	4258218.1	25448.23359	0.12887	0.16882	0.12766	0.17591	4.84E-04	3.03E-07	3.46E-07	3.00E-07	3.46E-07	4.8502E-04
520584.7	4258934.39	25441.95837	0.19295	0.10778	0.18659	0.11236	4.84E-04	4.53E-07	2.21E-07	4.38E-07	2.21E-07	4.8494E-04
520604.11	4258372.91	25425.2137	0.30089	19.68454	0.32213	9.93187	4.83E-04	7.06E-07	4.04E-05	7.56E-07	1.96E-05	5.4467E-04
520612.23	4258195.95	25417.13734	0.12856	0.17194	0.12784	0.17979	4.83E-04	3.02E-07	3.53E-07	3.00E-07	3.54E-07	4.8444E-04
520624.86	4258271.45	25409.95069	0.1308	0.16225	0.12975	0.16898	4.83E-04	3.07E-07	3.33E-07	3.05E-07	3.33E-07	4.8427E-04
519945.66	4258727.85	25399.92897	0.58354	0.682	0.64922	0.64699	4.83E-04	1.37E-06	1.40E-06	1.52E-06	1.27E-06	4.8837E-04
520045.36	4259127.25	25386.86661	5.60187	0.21537	7.80977	0.20939	4.83E-04	1.32E-05	4.42E-07	1.83E-05	4.12E-07	5.1490E-04
520227.45	4258132.78	25383.72452	0.17798	1.6007	0.18327	1.76192	4.82E-04	4.18E-07	3.28E-06	4.30E-07	3.47E-06	4.9010E-04
519929.15	4258856.83	25370.04645	0.6525	0.39951	0.71532	0.38725	4.82E-04	1.53E-06	8.19E-07	1.68E-06	7.62E-07	4.8703E-04
519935.82	4258927.45	25367.50145	0.77384	0.31869	0.84786	0.31375	4.82E-04	1.82E-06	6.54E-07	1.99E-06	6.18E-07	4.8727E-04
520168.53	4258192.6	25360.03364	0.19663	3.12028	0.19851	3.54089	4.82E-04	4.62E-07	6.40E-06	4.66E-07	6.97E-06	4.9635E-04
519929.49	4258833.54	25356.69185	0.62867	0.43413	0.68887	0.41865	4.82E-04	1.48E-06	8.90E-07	1.62E-06	8.24E-07	4.8679E-04
520055.28	4259137.23	25356.10449	7.98042	0.21378	13.76745	0.20664	4.82E-04	1.87E-05	4.38E-07	3.23E-05	4.07E-07	5.3388E-04
520095.34	4259167.99	25347.08696	12.22931	0.21055	11.4864	0.19859	4.82E-04	2.87E-05	4.32E-07	2.70E-05	3.91E-07	5.3830E-04
520624.18	4258393.54	25327.03218	0.13971	0.15473	0.13662	0.16186	4.81E-04	3.28E-07	3.17E-07	3.21E-07	3.19E-07	4.8271E-04
520099.7	4258292.38	25320.1174	0.24174	14.47958	0.25116	15.42029	4.81E-04	5.68E-07	2.97E-05	5.90E-07	3.04E-05	5.4254E-04
520626.19	4258282.04	25320.25051	0.13122	0.16073	0.1302	0.16763	4.81E-04	3.08E-07	3.30E-07	3.06E-07	3.30E-07	4.8257E-04
520642.16	4258786.32	25320.02337	0.15134	0.1155	0.1462	0.11935	4.81E-04	3.55E-07	2.37E-07	3.43E-07	2.35E-07	4.8246E-04
519929.76	4258882.44	25306.97459	0.68369	0.36591	0.74878	0.35686	4.81E-04	1.61E-06	7.50E-07	1.76E-06	7.02E-07	4.8586E-04
520647.55	4258701.64	25304.4457	0.14369	0.12409	0.13861	0.12849	4.81E-04	3.37E-07	2.54E-07	3.25E-07	2.53E-07	4.8216E-04
519937.54	4258938.15	25302.75208	0.79763	0.30901	0.87448	0.30467	4.81E-04	1.87E-06	6.34E-07	2.05E-06	6.00E-07	4.8612E-04
519940.09	4258949.2	25302.73606	0.82651	0.29987	0.91045	0.29605	4.81E-04	1.95E-06	6.15E-07	2.14E-06	5.83E-07	4.8624E-04
520237.27	4258121.81	25228.63696	0.17489	1.46182	0.18082	1.60356	4.80E-04	4.11E-07	3.00E-06	4.25E-07	3.16E-06	4.8654E-04
520611.16	4258185.48	25204.28491	0.12803	0.17262	0.12763	0.18077	4.79E-04	3.01E-07	3.54E-07	3.00E-07	3.56E-07	4.8040E-04
520627.65	4258292.67	25187.60335	0.1316	0.15903	0.13051	0.16615	4.79E-04	3.09E-07	3.26E-07	3.06E-07	3.27E-07	4.8004E-04
519941.85	4258959.92	25158.33892	0.8542	0.29095	0.9383	0.28755	4.78E-04	2.01E-06	5.97E-07	2.20E-06	5.66E-07	4.8359E-04
520594.67	4258920.26	25139.08736	0.18571	0.10755	0.17979	0.11202	4.78E-04	4.36E-07	2.21E-07	4.22E-07	2.21E-07	4.7915E-04
520158.71	4258202.57	25136.49035	0.19962	3.5994	0.20137	4.113	4.78E-04	4.69E-07	7.38E-06	4.73E-07	8.10E-06	4.9422E-04
519934.85	4258774.14	25130.72929	0.58619	0.54676	0.6438	0.52235	4.78E-04	1.38E-06	1.12E-06	1.51E-06	1.03E-06	4.8273E-04
520129.22	4258242.47	25129.41088	0.21596	6.12265	0.2195	7.16076	4.78E-04	5.07E-07	1.26E-05	5.15E-07	1.41E-05	5.0534E-04
520628.17	4258352.27	25110.41188	0.13569	0.15482	0.13325	0.16227	4.77E-04	3.19E-07	3.18E-07	3.13E-07	3.19E-07	4.7857E-04
520613.61	4258878.45	25095.14855	0.17207	0.10938	0.16681	0.11154	4.77E-04	4.04E-07	2.24E-07	3.92E-07	2.24E-07	4.7826E-04
520610.08	4258886.89	25093.87732	0.17459	0.10893	0.16922	0.11316	4.77E-04	4.10E-07	2.23E-07	3.97E-07	2.23E-07	4.7824E-04
520019.56	4258540.83	25079.88416	0.63263	3.02761	0.73768	2.56388	4.77E-04	1.49E-06	6.21E-06	1.73E-06	5.05E-06	4.9120E-04
520617.14	4258870.02	25079.15045	0.16958	0.1098	0.1644	0.11391	4.77E-04	3.98E-07	2.25E-07	3.86E-07	2.24E-07	4.7794E-04
520649.76	4258744.25	25065.4676	0.14517	0.11837	0.14019	0.1227	4.76E-04	3.41E-07	2.43E-07	3.29E-07	2.42E-07	4.7760E-04
520573.86	4258958.89	25060.86971	0.20115	0.10674	0.19428	0.11132	4.76E-04	4.72E-07	2.19E-07	4.56E-07	2.19E-07	4.7773E-04
519931.94	4258791.23	25053.74825	0.59102	0.50842	0.64768	0.48681	4.76E-04	1.39E-06	1.04E-06	1.52E-06	9.58E-07	4.8114E-04
520247.09	4258112.84	25044.22778	0.17184	1.34028	0.17834	1.46587	4.76E-04	4.03E-07	2.75E-06	4.19E-07	2.89E-06	4.8250E-04
520620.68	4258861.59	25036.79454	0.16713	0.11014	0.16196	0.11421	4.76E-04	3.92E-07	2.26E-07	3.80E-07	2.25E-07	4.7713E-04
520650.39	4258718.8	25022.01253	0.1434	0.12117	0.13849	0.12559	4.76E-04	3.37E-07	2.49E-07	3.25E-07	2.47E-07	4.7678E-04
520109.55	4258272.41	25015.16374	0.22984	10.18168	0.23659	11.81758	4.75E-04	5.40E-07	2.09E-05	5.55E-07	2.33E-05	5.2073E-04
520614.91	4258472.67	25010.46701	0.1474	0.15404	0.14302	0.16151	4.75E-04	3.46E-07	3.16E-07	3.36E-07	3.18E-07	4.7672E-04
520624.21	4258853.15	24990.60063	0.16471	0.11047	0.15956	0.1145	4.75E-04	3.87E-07	2.27E-07	3.75E-07	2.25E-07	4.7624E-04
519930.24	4258907.71	24973.60378	0.71111	0.33597	0.7774	0.32949	4.75E-04	1.67E-06	6.89E-07	1.83E-06	6.49E-07	4.7954E-04
520645.72	4258777.83	24959.52114	0.14894	0.11531	0.14379	0.11925	4.74E-04	3.50E-07	2.36E-07	3.38E-07	2.35E-07	4.7559E-04
520627.8	4258377.18	24948.3264	0.1374	0.15381	0.13448	0.16094	4.74E-04	3.23E-07	3.15E-07	3.16E-07	3.17E-07	4.7549E-04
520048.09	4258429.46	24926.58895	0.3737	7.68649	0.402	5.63149	4.74E-04	8.77E-07	1.58E-05	9.44E-07	1.11E-05	5.0248E-04
520620.72	4258436.19	24895.70684	0.14339	0.15353	0.13978	0.16078	4.73E-04	3.37E-07	3.15E-07	3.28E-07	3.16E-07	4.7452E-04
520583.48	4258944.9	24894.1607	0.19393	0.10653	0.1875	0.11106	4.73E-04	4.55E-07	2.18E-07	4.40E-07	2.19E-07	4.7453E-04
520560.44	4258984.46	24880.70023	0.21222	0.10632	0.20468	0.11086	4.73E-04	4.98E-07	2.18E-07	4.81E-07	2.18E-07	4.7435E-04
520631.27	4258836.28	24857.624	0.1599	0.11124	0.15488	0.11515	4.72E-04	3.75E-07	2.28E-07	3.64E-07	2.27E-07	4.7369E-04
520148.89	4258212.53	24834.37366	0.2025	4.21308	0.2044	4.85041	4.72E-04	4.75E-07	8.64E-06	4.80E-07	9.55E-06	4.9120E-04
519957.12	4258683.15	24832.72823	0.57349	0.86143	0.64606	0.80998	4.72E-04	1.35E-06	1.77E-06	1.52E-06	1.59E-06	4.7825E-04
519928.93	4258808.07	24831.65265	0.59318	0.47342	0.66844	0.45453	4.72E-04	1.39E-06	9.71E-07	1.52E-06	8.95E-07	4.7679E-04
519967.12	4258655.32	24827.07198	0.58213	1.02509	0.6592	0.9581	4.72E-04	1.37E-06	2.10E-06	1.55E-06	1.89E-06	4.7882E-04
520085.44	4259168.01	24826.1237	16.35577	0.20779	18.20768	0.19713	4.72E-04	3.84E-05	4.26E-07	4.27E-05	3.88E-07	5.5386E-04
519948.37	4258710.28	24785.83095	0.56826	0.73706	0.63402	0.69765	4.71E-04	1.33E-06	1.51E-06	1.49E-06	1.37E-06	4.7684E-04
520624.09	4258419.17	24775.38042	0.1412	0.15307	0.1378	0.16015	4.71E-04	3.31E-07	3.14E-07	3.24E-07	3.15E-07	4.7222E-04
520618.37	4258455.89	24753.761	0.14525	0.15334	0.14127	0.16073	4.71E-04	3.41E-07	3.14E-07	3.32E-07	3.16E-07	4.7183E-04
520570.23	4258970.4	24725.99414	0.2041	0.10599	0.19705	0.11052	4.70E-04	4.79E-07	2.17E-07	4.63E-07	2.18E-07	4.7137E-04
520634.8	4258827.85	24724.33141	0.15748	0.11145	0.15246	0.11531	4.70E-04	3.70E-07	2.29E-07	3.58E-07	2.27E-07	4.7115E-04
519926.01	4258873.38	24720.75305	0.64709	0.37373	0.70722	0.36353	4.70E-04	1.52E-06	7.66E-07	1.66E-06	7.16E-07	4.7456E-04
520045.38	4259137.25	24713.72123	5.64302	0.21001	7.85107	0.2042	4.70E-04	1.32E-05	4.31E-07	1.84E-05	4.02E-07	5.0228E-04
520009.65	4258560.27	24709.80679	0.63378	2.3707	0.74578	2.06469	4.70E-04	1.49E-06	4.86E-06	1.75E-06	4.06E-06	4.8185E-04
520604.88	4258906.02	24702.69683	0.17853	0.10728	0.17301	0.11159	4.70E-04	4.19E-07	2.20E-07	4.06E-07	2.20E-07	4.7082E-04
520593.3	4258930.83	24684.22782	0.18686	0.10631	0.18087	0.11075	4.69E-04	4.39E-07	2.18E-07	4.25E-07	2.18E-07	4.7050E-04
520055.71	4259147.23	24661.89529	8.13276	0.2086	14.31301	0.20162	4.69E-04	1.91E-05	4.28E-07	3.36E-05	3.97E-07	5.2230E-04
520649.28	4258769.34	24655.61212	0.14673	0.1153	0.14164	0.11931	4.69E-04	3.44E-07	2.36E-07	3.33E-07	2.35E-07	4.6981E-04
520638.33	4258819.41	24640.16403	0.15519	0.11183	0.15022	0.11562	4.68E-04	3.64E-07	2.29E-07	3.53E-07	2.28E-07	4.6954E-04
520622.35	4258210.3	24627.19276	0.1268	0.16582	0.1256	0.17282	4.68E-04	2.98E-07	3.40E-07	2.95E-07	3.40E-07	4.6939E-04
519925.35	4258847.69	24619.03331	0.61555	0.40764	0.67284	0.39412	4.68E-04	1.45E-06	8.36E-07	1.58E-06	7.76E-07	4.7260E-04
520653.34	4258735.69	24591.55001	0.14304	0.11831	0.13822	0.12265	4.67E-04	3.36E-07	2.43E-07	3.24E-07	2.41E-07	4.6859E-04
520651.19	4258692.94	24588.43318	0.1416	0.12394	0.13654	0.1282	4.67E-04	3.32E-07	2.54E-07	3.21E-07	2.52E-07	4.6854E-04
520095.36	4259177.99	24577.28283	12.18774	0.20529	11.44472	0.19376	4.67E-04	2.86E-05	4.21E-07	2.69E-05	3.81E-07	5.2345E-04
520119.4	4258252.44	24576.50676	0.21855	7.71638	0.22316	9.11469	4.67E-04	5.13E-07	1.58E-05	5.24E-07	1.79E-05	5.0196E-04
520627.58	4258402.46	24567.64966	0.13897	0.15243	0.13573	0.1594	4.67E-04	3.26E-07	3.13E-07	3.19E-07	3.14E-07	4.6826E-04
520039.32	4258482.56	24550.56962	0.50121	5.49239	0.55201	4.28891	4.67E-04	1.18E-06	1.13E-05	1.30E-06	8.44E-06	4.8884E-04
519926.52	4258898.73	24528.45038	0.67477	0.34333	0.73685	0.33587	4.66E-04	1.58E-06	7.04E-07	1.73E-06	6.61E-07	4.7092E-04
520054.1	4258397.01	24527.65633	0.32208	10.68446	0.34506	6.87415	4.66E-04	7.56E-07	2.06E-05	8.10E-07	1.35E-05	5.0197E-04
520628.33	4258242.9	24516.09581	0.12751	0.16182	0.12624	0.16813	4.66E-04	2.99E-07	3.32E-07	2.96E-07	3.31E-07	4.6727E-04
520641.86	4258810.98	24515.61659	0.15293	0.11224	0.14802	0.11596	4.66E-04	3.59E-07	2.30E-07	3.48E-07	2.28E-07	4.6716E-04
520631.5	4258361.03	24506.0456	0.1351	0.15263	0.1324	0.15984	4.66E-04	3.17E-07	3.13E-07	3.11E-07	3.15E-07	4.6707E-04
520627.08	4258232.35	24495.32882	0.12707	0.16287	0.12575	0.16927	4.66E-04	2.98E-07	3.34E-07	2.95

520045.81	4259147.25	24058.55565	5.7287E-08	0.20501	8.04072	0.19931	4.57E-04	1.34E-05	4.20E-07	1.89E-05	3.92E-07	4.9045E-04
520656.39	4258752.35	24032.84248	0.14262	0.11551	0.13782	0.11964	4.57E-04	3.35E-07	2.37E-07	3.24E-07	2.36E-07	4.5795E-04
519922.79	4258889.74	24028.62931	0.64009	0.35055	0.69779	0.34207	4.57E-04	1.50E-06	7.19E-07	1.64E-06	6.73E-07	4.6127E-04
520158.75	4258192.57	24016.95309	0.19265	3.60439	0.19402	4.11604	4.57E-04	4.52E-07	7.39E-06	4.55E-07	8.10E-06	4.7292E-04
520578.97	4258966.78	24007.33836	0.19732	0.10448	0.19064	0.1089	4.56E-04	4.63E-07	2.14E-07	4.48E-07	2.14E-07	4.5768E-04
520129.25	4258232.47	24002.65574	0.20783	6.13214	0.21093	7.18204	4.56E-04	4.88E-07	1.26E-05	4.95E-07	1.41E-05	4.8394E-04
520049.63	4258408.85	23979.504	0.33415	8.19372	0.35782	5.94987	4.56E-04	7.84E-07	1.68E-05	8.40E-07	1.17E-05	4.8595E-04
520055.72	4259157.23	23962.05873	8.186	0.20341	14.40907	0.19667	4.55E-04	1.92E-05	4.17E-07	3.38E-05	3.87E-07	5.0933E-04
520621.67	4258464.56	23956.65913	0.14427	0.15115	0.14005	0.15842	4.55E-04	3.39E-07	3.10E-07	3.29E-07	3.12E-07	4.5666E-04
520627.53	4258428.19	23937.11718	0.14035	0.15067	0.13679	0.15767	4.55E-04	3.29E-07	3.09E-07	3.21E-07	3.10E-07	4.5627E-04
520652.46	4258785.68	23931.79361	0.1463	0.11275	0.14145	0.11646	4.55E-04	3.43E-07	2.31E-07	3.32E-07	2.29E-07	4.5604E-04
520635.94	4258346.8	23908.87399	0.1327	0.15104	0.13024	0.15825	4.54E-04	3.12E-07	3.10E-07	3.06E-07	3.12E-07	4.5570E-04
520601.91	4258927.27	23899.05878	0.18099	0.10489	0.17534	0.10919	4.54E-04	4.25E-07	2.15E-07	4.12E-07	2.15E-07	4.5554E-04
520634.84	4258369.79	23890.23928	0.13447	0.15059	0.13157	0.15754	4.54E-04	3.16E-07	3.09E-07	3.09E-07	3.10E-07	4.5535E-04
520054.92	4258386.69	23886.61801	0.30613	10.47884	0.32744	7.09565	4.54E-04	7.19E-07	2.15E-05	7.69E-07	1.40E-05	4.9099E-04
520109.58	4258262.41	23874.45137	0.22059	10.20896	0.22682	11.8116	4.54E-04	5.18E-07	2.09E-05	5.33E-07	2.33E-05	4.9905E-04
520617.26	4258893.69	23866.47322	0.1704	0.10624	0.16529	0.11032	4.54E-04	4.00E-07	2.18E-07	3.88E-07	2.17E-07	4.5488E-04
519979.89	4258618.58	23865.46296	0.57997	1.298	0.66666	1.20137	4.54E-04	1.36E-06	2.66E-06	1.57E-06	2.36E-06	4.6159E-04
520620.91	4258884.98	23863.0545	0.16792	0.10666	0.16291	0.11069	4.54E-04	3.94E-07	2.19E-07	3.82E-07	2.18E-07	4.5481E-04
519928.21	4258782.23	23861.37885	0.55314	0.51518	0.60415	0.49321	4.54E-04	1.30E-06	1.06E-06	1.42E-06	9.71E-07	4.5831E-04
520095.38	4259187.99	23848.69627	12.09062	0.20029	11.40588	0.18916	4.53E-04	2.84E-05	4.11E-07	2.68E-05	3.72E-07	5.0927E-04
520624.55	4258876.26	23848.48276	0.16547	0.10709	0.16054	0.11106	4.53E-04	3.88E-07	2.20E-07	3.77E-07	2.19E-07	4.5452E-04
520029.44	4258511.69	23831.3498	0.56745	4.01668	0.63926	3.29541	4.53E-04	1.33E-06	8.24E-06	1.50E-06	6.49E-06	4.7055E-04
520628.2	4258867.55	23817.37588	0.16304	0.10749	0.15818	0.11141	4.53E-04	3.83E-07	2.20E-07	3.71E-07	2.19E-07	4.5392E-04
519921.56	4258838.55	23813.31155	0.5804	0.41533	0.6325	0.40068	4.53E-04	1.36E-06	8.52E-07	1.48E-06	7.89E-07	4.5714E-04
520630.98	4258411.39	23799.74963	0.1382	0.15013	0.13482	0.15698	4.52E-04	3.24E-07	3.08E-07	3.17E-07	3.09E-07	4.5365E-04
519931.08	4258765.04	23781.9357	0.54647	0.55303	0.59837	0.52853	4.52E-04	1.28E-06	1.13E-06	1.40E-06	1.04E-06	4.5691E-04
519925.23	4258799.15	23776.26634	0.55693	0.48058	0.60712	0.46098	4.52E-04	1.31E-06	9.86E-07	1.43E-06	9.07E-07	4.5657E-04
519957.12	4258673.87	23774.04112	0.55108	0.88625	0.61977	0.83301	4.52E-04	1.29E-06	1.82E-06	1.46E-06	1.64E-06	4.5811E-04
519950.71	4258691.8	23771.34985	0.54647	0.79541	0.60925	0.75182	4.52E-04	1.28E-06	1.63E-06	1.43E-06	1.48E-06	4.5767E-04
520657.61	4258701.55	23767.39848	0.1393	0.12099	0.13453	0.12514	4.52E-04	3.27E-07	2.48E-07	3.16E-07	2.46E-07	4.5291E-04
520631.85	4258858.83	23766.97207	0.16065	0.10781	0.1558	0.11169	4.52E-04	3.77E-07	2.21E-07	3.66E-07	2.20E-07	4.5295E-04
519923.21	4258914.86	23736.79121	0.66493	0.32283	0.72381	0.31675	4.51E-04	1.56E-06	6.62E-07	1.70E-06	6.24E-07	4.5574E-04
520148.93	4258202.53	23730.70544	0.19531	4.21888	0.19684	4.85442	4.51E-04	4.59E-07	8.65E-06	4.62E-07	9.56E-06	4.7021E-04
520635.5	4258850.12	23711.04891	0.15827	0.10816	0.15346	0.11199	4.51E-04	3.72E-07	2.22E-07	3.60E-07	2.20E-07	4.5188E-04
520590.85	4258951.86	23659.68137	0.1887	0.10387	0.18254	0.10822	4.50E-04	4.43E-07	2.13E-07	4.29E-07	2.13E-07	4.5103E-04
520639.15	4258841.4	23640.93291	0.15591	0.10856	0.15117	0.11233	4.49E-04	3.66E-07	2.23E-07	3.55E-07	2.21E-07	4.5054E-04
520631.33	4258214.14	23638.11284	0.12453	0.16075	0.1232	0.16723	4.49E-04	2.92E-07	3.30E-07	2.89E-07	3.29E-07	4.5056E-04
519941.95	4258718.91	23634.55212	0.53931	0.68578	0.5983	0.65103	4.49E-04	1.27E-06	1.41E-06	1.40E-06	1.28E-06	4.5461E-04
520659.94	4258743.86	23618.66812	0.14057	0.11546	0.13592	0.11962	4.49E-04	3.30E-07	2.37E-07	3.19E-07	2.35E-07	4.5007E-04
520064.89	4258352.61	23582.61859	0.27271	20.91151	0.29095	10.16797	4.48E-04	6.40E-07	4.29E-05	6.83E-07	2.00E-05	5.1249E-04
520634.53	4258394.85	23577.00431	0.13604	0.14943	0.13279	0.15619	4.48E-04	3.19E-07	3.06E-07	3.12E-07	3.07E-07	4.4940E-04
520630.06	4258203.59	23569.0063	0.12413	0.16152	0.12292	0.16826	4.48E-04	2.91E-07	3.31E-07	2.89E-07	3.31E-07	4.4925E-04
519922.15	4258815.84	23560.72294	0.55832	0.44895	0.60757	0.43161	4.48E-04	1.31E-06	9.21E-07	1.43E-06	8.50E-07	4.5235E-04
520642.8	4258832.68	23553.50163	0.15358	0.10889	0.14887	0.11259	4.48E-04	3.61E-07	2.23E-07	3.49E-07	2.22E-07	4.4886E-04
520660.51	4258718.58	23533.67206	0.13897	0.11817	0.13438	0.12236	4.47E-04	3.26E-07	2.42E-07	3.15E-07	2.41E-07	4.4846E-04
520577.8	4258977.27	23506.04596	0.19828	0.10335	0.19151	0.1077	4.47E-04	4.65E-07	2.12E-07	4.50E-07	2.12E-07	4.4815E-04
520612	4258913.08	23501.46164	0.17417	0.10466	0.16891	0.10881	4.47E-04	4.09E-07	2.15E-07	3.97E-07	2.14E-07	4.4795E-04
519919.07	4258880.76	23479.78503	0.60704	0.35768	0.66041	0.34812	4.46E-04	1.43E-06	7.34E-07	1.55E-06	6.85E-07	4.5070E-04
520600.58	4258937.82	23478.40125	0.18204	0.10371	0.1763	0.10799	4.46E-04	4.27E-07	2.13E-07	4.14E-07	2.13E-07	4.4757E-04
520207.88	4258132.72	23466.83534	0.17301	1.9515	0.17571	2.16402	4.46E-04	4.06E-07	4.00E-06	4.13E-07	4.26E-06	4.5514E-04
520628.88	4258193.07	23464.91045	0.12371	0.16217	0.12269	0.16921	4.46E-04	2.90E-07	3.33E-07	2.88E-07	3.33E-07	4.4727E-04
520635.85	4258236.11	23458.98373	0.12485	0.15781	0.12349	0.16389	4.46E-04	2.93E-07	3.24E-07	2.90E-07	3.23E-07	4.4714E-04
520198.06	4258142.69	23454.57795	0.17561	2.17096	0.17779	2.41705	4.46E-04	4.12E-07	4.45E-06	4.17E-07	4.76E-06	4.5587E-04
520119.43	4258242.44	23454.04248	0.21009	7.73703	0.21436	9.08695	4.46E-04	4.93E-07	1.59E-05	5.03E-07	1.79E-05	4.8057E-04
519967.12	4258646.05	23448.27507	0.55411	1.04994	0.62504	0.98265	4.46E-04	1.30E-06	2.15E-06	1.47E-06	1.93E-06	4.5257E-04
520646.45	4258823.97	23446.13559	0.15128	0.1092	0.1466	0.11284	4.46E-04	3.55E-07	2.24E-07	3.44E-07	2.22E-07	4.4681E-04
520634.63	4258225.57	23445.70361	0.12442	0.15877	0.12304	0.16494	4.46E-04	2.92E-07	3.26E-07	2.89E-07	3.25E-07	4.4689E-04
520639.88	4258305.41	23431.57207	0.12871	0.15131	0.12722	0.15835	4.45E-04	3.02E-07	3.10E-07	2.99E-07	3.12E-07	4.4661E-04
520637.17	4258246.68	23428.78758	0.12524	0.15669	0.12396	0.16274	4.45E-04	2.94E-07	3.21E-07	2.91E-07	3.20E-07	4.4657E-04
520217.7	4258122.75	23417.25371	0.17034	1.76529	0.17365	1.94858	4.45E-04	4.00E-07	3.62E-06	4.08E-07	3.84E-06	4.5338E-04
520188.24	4258152.66	23415.15872	0.17828	2.43115	0.17996	2.72115	4.45E-04	4.19E-07	4.99E-06	4.22E-07	5.36E-06	4.5626E-04
520045.82	4259157.25	23392.01788	5.78934	0.1999	8.0689	0.1944	4.45E-04	1.36E-05	4.10E-07	1.89E-05	3.83E-07	4.7797E-04
519918.5	4258855.26	23383.66091	0.57885	0.38873	0.62932	0.37622	4.44E-04	1.36E-06	7.97E-07	1.48E-06	7.41E-07	4.4886E-04
520085.48	4259188.01	23378.47815	16.19473	0.1977	18.02497	0.18778	4.44E-04	3.80E-05	4.05E-07	4.23E-05	3.70E-07	5.2549E-04
520139.11	4258212.5	23375.36212	0.19784	5.02977	0.19983	5.83576	4.44E-04	4.64E-07	1.03E-05	4.69E-07	1.15E-05	4.6706E-04
520227.52	4258112.78	23347.50697	0.16773	1.60466	0.17165	1.76506	4.44E-04	3.94E-07	3.29E-06	4.03E-07	3.47E-06	4.5136E-04
520638.6	4258257.31	23344.28834	0.12558	0.15541	0.1244	0.1615	4.44E-04	2.95E-07	3.19E-07	2.92E-07	3.18E-07	4.4496E-04
520587.71	4258963.16	23338.3425	0.19099	0.10306	0.18467	0.10737	4.44E-04	4.48E-07	2.11E-07	4.34E-07	2.11E-07	4.4492E-04
520639.41	4258355.93	23322.97248	0.13211	0.14877	0.12936	0.15575	4.43E-04	3.10E-07	3.05E-07	3.04E-07	3.07E-07	4.4455E-04
520650.1	4258815.25	23316.32291	0.14901	0.10949	0.14435	0.11307	4.43E-04	3.50E-07	2.25E-07	3.39E-07	2.23E-07	4.4434E-04
519919.51	4258905.94	23315.0329	0.63215	0.32951	0.68711	0.32253	4.43E-04	1.48E-06	6.76E-07	1.61E-06	6.35E-07	4.4758E-04
520178.42	4258162.63	23310.2344	0.18087	2.74569	0.18221	3.08811	4.43E-04	4.25E-07	5.63E-06	4.28E-07	6.08E-06	4.5565E-04
520659.52	4258768.81	23297.36592	0.14199	0.11254	0.13722	0.11641	4.43E-04	3.33E-07	2.31E-07	3.22E-07	2.29E-07	4.4396E-04
520055.74	4259167.23	23282.08738	8.30476	0.19836	14.50856	0.19186	4.43E-04	1.95E-05	4.07E-07	3.41E-05	3.78E-07	4.9689E-04
520638.18	4258378.55	23269.19934	0.13382	0.1485	0.13075	0.15524	4.42E-04	3.14E-07	3.05E-07	3.07E-07	3.06E-07	4.4354E-04
520624.97	4258473.23	23231.3259	0.14326	0.14903	0.13879	0.15615	4.42E-04	3.36E-07	3.06E-07	3.26E-07	3.07E-07	4.4286E-04
520640.15	4258267.98	23224.05388	0.1259	0.15394	0.12478	0.16016	4.41E-04	2.96E-07	3.16E-07	2.93E-07	3.15E-07	4.4267E-04
520039.85	4258457.01	23223.5358	0.41853	5.66527	0.45334	4.42804	4.41E-04	9.83E-07	1.16E-05	1.06E-06	8.72E-06	4.6382E-04
520055.59	4258376.43	23199.71239	0.29136	10.82716	0.31116	7.27638	4.41E-04	6.84E-07	2.22E-05	7.31E-07	1.43E-05	4.7893E-04
520168.6	4258172.6	23170.79373	0.1835	3.12981	0.1846	3.54394	4.40E-04	4.31E-07	6.42E-06	4.33E-07	6.98E-06	4.5469E-04
520663.5	4258735.36	23165.31515	0.13858	0.11535	0.13405	0.1195	4.40E-04	3.25E-07	2.37E-07	3.15E-07	2.35E-07	4.4144E-04
520653.75	4258806.54	23161.23668	0.14679	0.10984	0.14219	0.11336	4.40E-04	3.45E-07	2.25E-07	3.34E-07	2.23E-07	4.4138E-04
520610.51	4258923.7	23132.32818	0.17533	0.10351	0.17001	0.10767	4.40E-04	4.12E-07	2.12E-07	3.99E-07	2.12E-07	4.4094E-04
520630.96	4258437.21	23117.84318	0.13946	0.14839	0.13574	0.15532	4.39E-04	3.27E-07	3.04E-07	3.19E-07	3.06E-07	4.4068E-04
520099.76	4258272.38	23114.46709	0.22224	14.5729	0.23022	15.63921	4.39E-04	5.22E-07	2.99E-05	5.40E-07	3.08E-05	5.0110E-04
520661.22	4258692.92	23101.89752	0.13736	0.12073	0.13255	0.12476	4.39E-04	3.22E-07	2.48E-07	3.11E-07	2.46E-07	4.4025E-04
520663.05	4258760.37	23046.75285	0.14009	0.11265	0.13545	0.11659	4.38E-04	3.29E-07	2.31E-07	3.18E-07	2.30E-07	4.3918E-04
520599.35	4258948.34	23031.11502	0.18295	0.10255	0.17713	0.10678	4.38E-04	4.30E-07	2.10E-07	4.16E-07	2.10E-07	4.3905E-04
520634.38	4258420.31	23030.79356	0.13739	0.14788	0.13388	0.15465	4.38E-04	3.23E-07	3.03E-07	3.14E-07	3.04E-07	4.3902E-04
520642.21	4258278.88	23019.32858	0.12609	0.15208	0.12494	0.1585	4.38E-04	2.96E-07	3.12E-07	2.93E-07	3.12E-07	4.3877E-04
520019.52	4258531.13	23005.26402	0.58549	3.07551	0.67301	2.60592	4.37E-04	1.37E-06	6.31E-06	1.58E-06	5.13E-06	4.5168E-04
520094.86	4259199.84	23004.63348	12.10895	0.19453	11.59905	0.1839	4.37E-04	2.84E-05	3.99E-07	2.72E-05	3.62E-07	4.9370E-04
519921.88	4258941.68	22991.56255	0.67611	0.2957	0.73513	0.29139	4.37E-04	1.59E-06	6.06E-07	1.73E-06	5.74E-07	4.4152E-04
519923.78	4258952.46	22977.75188	0.69736	0.28716	0.7587	0.28345	4.37E-04	1.64E-06	5.89E-07	1.78E-06	5.58E-07	4.4133E-04
520657.4	4258797.82	22976.58277	0.1446	0.11003	0.14002	0.11154	4.37E-04	3.39E-07	2.26E-07	3.29E-07	2.24E-07	4.3788E-04
520664.09	4258710.02	22960.30826	0.13701	0.1181	0.1325	0.12216	4.36E-04	3.22E-07	2.42E-07	3.11E-07	2.40E-07	4.3755E-04
520158.78	4258182.57	22957.32893	0.18603	3.61134	0.18711	4.11445	4.36E-04	4.37E-07	7.41E-06	4.39E-07	8.10E-06	4.5276E-04
519917.77	22954.30457	0.54688	0.42243	0.59423	0.40684	4.36E-04	1.28E-06	8.66E-07	1.40E-06	8.01E-07	4.4067E-04	
520129.29	4258222.47	22952.70116	0.20021	6.14098	0.20295	7.19255	4.36E-04	4.70E-07	1.26E-05	4.76E-07	1.42E-05	4.6399E-04
520643.29	4258314.37	22936.25512	0.12823	0.1491	0.12649	0.1561	4.36E-04	3.01E-07	3.06E-07	2.97E-07	3.07E-07	4.3719E-04
519932.56	4258744.48	22931.19194	0.52127	0.5962	0.57447	0.56825	4.36E-04	1.22E-06	1.35E-06	1.35E-06	1.12E-06	4.4083E-04
520643.02	4258339.53	22894.76208	0.1299	0.14792	0.12751	0.1549	4.35E-04	3.05E-07	3.03E-07	2.99E-07	3.05E-07	4.3640E-04
519944.62	4258701.24	22891.14518	0.52384	0.73815	0.58109	0.69978	4.35E-04	1.23E-06	1.51E-06	1.36E-06	1.38E-06	4.4060E-04
519915.34	4258871.78	22882.31903	0.5755	0.36453	0.62433	0.35395	4.35E-04	1.35E-06	7.48E-07	1.47E-06	6.97E-07	4.3921E-04
520637.9	4258403.69	22875.89102	0.13528	0.14724	0.13193	0.15387	4.35E-04	3.18E-07	3.02E-07	3.10E-07	3.03E-07	4.3606E-04
520586.48	4258973.68	22859.6558	0.19188	0.10194	0.18545	0.10619	4.35E-04	4.50E-07	2.09E-07	4.35E-07	2.09E-07	4.3582E-04
519915.82	4258897.03	22847.78384	0.60084	0.33616	0.652	0.32821	4.34E-04	1.41E-06	6.89E-07	1.53E-06	6.46E-07	4.3857E-04
520109.62	4258252.41	22839.28243	0.21205	10.22686	0.21773	11.89476	4.34E-04	4.98E-07	2.10E-05	5.11E-07	2.34E-05	4.7953E-04
520661.05	4258789.11	22759.51189	0.14247	0.11009	0.1379	0.11364	4.33E-04	3.34E-07	2.26E-07	3.24E-07	2.24E-07	4.3372E-04
520609.13	4258934.28	22750.83403	0.17638	0.10237	0.17098	0.10651	4.32E-04	4.14E-07	2.10E-07	4.01E-07	2.10E-07	4.3369E-04
520642.89	4258365.05	22730.29148	0.13146	0.1468	0.12852	0.15352	4.32E-04	3.09E-07	3.01E-07	3.02E-07	3.02E-07	4.3328E-04
520624.29	4258900.84	22728.92019	0.1664	0.10365	0.16152	0.1076	4.32E-04	3.91E-07	2.13E-07	3.79E-07	2.12E-07	4.3323E-04
520627.91	4258892.19	22722.89265	0.16406	0.10404	0.15926	0.10793	4.32E-04	3.85E-07	2.13E-07	3.74E-07	2.12E-07	4.3311E-04
520045.84	4259167.25	22722.2932	5.83543	0.19496	8.09977	0.18965	4.32E-04	1.37E-05	4.00E-07	1.90E-05	3.73E-07	4.6540E-04
520631.53	4258883.54	22707.31096	0.16174	0.10444	0.15702	0.10828	4.32E-04	3.80E-07	2.14E-07	3.69E-07	2.13E-07	4.3280E-04
520148.96	4258192.53	22702.01557	0.18853	4.22502	0.18976	4.85807	4.32E-04	4.43E-07	8.67E-06	4.45E-07	9.56E-06	4.5064E-04
520596.45	4258659.54	22697.16735	0.18499	0.10168	0.17895	0.10589	4.31E-04	4.34E-07	2.09E-07	4.20E-07	2.08E-07	4.3270E-04
519957.12	4258664.6	22684.43285	0.52919	0.90952	0.59369	0.85506	4.31E-04	1.24E-06	1.87E-06	1.39E-06	1.68E-06	4.3737E-04
520666.58	4258751.94	22682.96868	0.13811	0.11269	0.13363	0.11666	4.31E-04	3.24E-07	2.31E-07	3.14E-07	2.30E-07	4.3226E-04
519921.53	4258790.23	22682.78212	0.52272	0.48657	0.56813	0.4667	4.31E-04	1.23E-06	9.98E-07	1.33E-06	9.19E-07	4.3564E-04
520635.15	4258874.89	22682.54032	0.15943	0.10484	0.15479	0.10863	4.31E-04	3.74E-07	2.15E-07	3.63E-07	2.14E-07	4.3232E-04
520667.06	4258726.87	22680.44043	0.13666	0.11515	0.1322	0.11926	4.31E-04	3.21E-07	2.36E-07	3.10E-07	2.35E-07	4.3222E-04
520009.61	4258550.57	22660.34989	0.5914	2.41549	0.68775	2.10303	4.31E-04	1.39E-06	4.95E-06	1.61E-06	4.14E-06	4.4283E-04
520638.98	4258207.4	22642.89764	0.12195	0.15663	0.12058	0.16289	4.30E-04	2.86E-07	3.21E-07	2.83E-07	3.21E-07	4.3161E-04
520638.77	4258866.24	22642.40584	0.15715	0.1052	0.15256	0.10894	4.30E-04	3.69E-07	2.16E-07	3.58E-07	2.14E-07	4.3155E-04
520641.51	4258387.31	22639.89524	0.13315	0.14641	0.12994	0.15298	4.30E-04	3.13E-07	3.00E-07	3.05E-07	3.01E-07	4.3156E-04
520640.31	4258217.98	22638.61406	0.12225	0.15587	0.12087	0.16186	4.30E-04	2.87E-07	3.20E-07	2.84E-07	3.19E-07	4.3153E-04
519914.74	4258846.2	22633.51397	0.54687	0.3957	0.59318	0.38216	4.30E-04	1.28E-06	8.12E-07	1.39E-06	7.52E-07	4.3446E-04
519924.47	4258773.22	22632.01581	0.5174	0.52067	0.56341	0.49873	4.30E-04	1.21E-06	1.07E-06	1.32E-06	9.82E-07	4.3478E-04
520055.76	4259177.23	22624.27858	8.37566	0.19355	14.61722	0.18727	4.30E-04	1.97E-05	3.97E-07	3.43E-05	3.69E-07	4.8479E-04
520637.74	4258196.86	22600.652	0.12159	0.15726	0.12033	0.16382	4.30E-04	2.85E-07	3.23E-07	2.82E-07	3.22E-07	4.3081E-04
519918.48	4258807	22590.30133	0.5256	0.45524	0.57041	0.43735	4.29E-04	1.23E-06	9.34E-07	1.34E-06	8.61E-07	4.3377E-04
520642.4	4258857.59	22588.68168	0.15489	0.10543	0.15029	0.10914	4.29E-04	3.64E-07	2.16E-07	3.53E-07	2.15E-07	4.3052E-04
519916.17	4258922	22588.48017	0.62325	0.31049	0.67579	0.30476	4.29E-04	1.46E-06	6.37E-07	1.59E-06	6.00E-07	4.3365E-04
520628.28	4258481.9	22579.9256	0.14222	0.14702	0.13752	0.15394	4.29E-04	3.34E-07	3.02E-07	3.23E-07	3.03E-07	4.3046E-04
520084.96	4259199.85	22561.86465	16.23762	0.19199	18.48339	0.18254	4.29E-04	3.81E-05	3.94E-07	4.34E-05	3.59E-07	5.1113E-04
519935.46	4258727.38	22550.45274	0.51237	0.64005	0.56496	0.60942	4.29E-04	1.20E-06	1.31E-06	1.33E-06	1.20E-06	4.3368E-04
520646.02	4258848.94	22508.05849	0.15262	0.10573	0.14805	0.10939	4.28E-04	3.58E-07	2.17E-07	3.48E-07	2.15E-07	4.2898E-04
520056.13	4258366.21	22493.27721	0.27764	11.12471	0.29615	7.41828	4.28E-04	6.52E-07	7.48E-05	7.28E-05	6.95E-07	1.46E-05	4.6628E-04
519999.69	4258570	22491.02055	0.58548	1.94363	0.68423	1.72989	4.28E-04	1.37E-06	3.99E-06	1.61E-06	3.41E-06	4.3789E-04
520207.91	4258122.72	22486.90932	0.16773	1.95411	0.16995	2.16398	4.27E-04	3.94E-07	4.01E-06	3.99E-07	4.26E-06	4.3650E-04
520198.09	4258132.69	22485.08716	0.17021	2.17317	0.1719	2.41859	4.27E-04	4.00E-07	4.46E-06	4.04E-07	4.76E-06	4.3742E-04
520664.69	4258780.39	22470.71961	0.14033	0.10998	0.13576	0.1136	4.27E-04	3.29E-07	2.26E-07	3.19E-07	2.24E-07	4.2823E-04
520217.73	4258112.75	22469.35682	0.16533	1.7671	0.16808	1.94961	4.27E-04	3.88E-07	3.62E-06	3.95E-07	3.84E-06	4.3535E-04
520649.64	4258840.29	22455.16805	0.15042	0.10626	0.14598	0.10984	4.27E-04	3.53E-07	2.18E-07	3.43E-07	2.16E-07	4.2796E-04
520643.35	4258229.3	22448.93518	0.12222	0.154	0.12083	0.1598	4.27E-04	2.87E-07	3.16E-07	2.84E-07	3.15E-07	4.2791E-04
520119.47	4258232.44	22442.70689	0.20227	7.74917	0.20614	9.10789	4.27E-04	4.75E-07	1.59E

520650.45	4258307.3	21950.3704	0.12551	0.14602	0.12386	0.15268	4.17E-04	2.95E-07	2.99E-07	2.91E-07	3.01E-07	4.1842E-04
520084.98	4259209.85	21920.88291	16.0936	0.18749	18.37711	0.17836	4.17E-04	3.78E-05	3.85E-07	4.31E-05	3.51E-07	4.9834E-04
520040.84	4259422.46	21916.90013	0.33981	5.89923	0.36327	4.61787	4.17E-04	7.98E-07	1.21E-05	8.53E-07	9.09E-06	4.3944E-04
519914.74	4258948.73	21904.55547	0.63321	0.2851	0.68615	0.28105	4.16E-04	1.49E-06	5.85E-07	1.61E-06	5.53E-07	4.2060E-04
519938.24	4258709.97	21902.41614	0.49892	0.68741	0.55147	0.65321	4.16E-04	1.17E-06	1.41E-06	1.29E-06	1.29E-06	4.2149E-04
520109.65	4258242.41	21859.06159	0.204	10.25357	0.20927	11.87741	4.16E-04	4.79E-07	2.10E-05	4.91E-07	2.34E-05	4.6088E-04
520671.99	4258762.96	21858.35334	0.13628	0.10986	0.13187	0.11364	4.15E-04	3.20E-07	2.25E-07	3.10E-07	2.24E-07	4.1657E-04
519910.98	4258837.14	21838.90512	0.51646	0.40206	0.55867	0.3877	4.15E-04	1.21E-06	8.25E-07	1.31E-06	7.63E-07	4.1923E-04
520673.65	4258735.07	21816.69491	0.13428	0.11229	0.12997	0.11628	4.15E-04	3.15E-07	2.30E-07	3.05E-07	2.29E-07	4.1578E-04
519947.12	4258683.15	21806.38265	0.50295	0.79367	0.55946	0.75043	4.14E-04	1.18E-06	1.63E-06	1.31E-06	1.48E-06	4.2010E-04
520667.75	4258797.04	21779.9798	0.13981	0.10748	0.13547	0.11085	4.14E-04	3.28E-07	2.20E-07	3.18E-07	2.18E-07	4.1508E-04
519908.43	4258879.21	21774.47485	0.54216	0.34896	0.58575	0.33904	4.14E-04	1.27E-06	7.16E-07	1.38E-06	6.67E-07	4.1792E-04
519908.83	4258904.31	21748.91201	0.56513	0.3227	0.61077	0.31521	4.13E-04	1.33E-06	6.62E-07	1.43E-06	6.20E-07	4.1745E-04
520671.25	4258692.91	21734.91315	0.13327	0.11758	0.12871	0.12141	4.13E-04	3.13E-07	2.41E-07	3.02E-07	2.39E-07	4.1424E-04
520148.99	4258182.53	21734.13692	0.18211	4.23212	0.18311	4.85666	4.13E-04	4.28E-07	8.68E-06	4.30E-07	9.56E-06	4.3222E-04
520646.59	4258200.65	21722.36263	0.11947	0.15263	0.11806	0.15872	4.13E-04	2.80E-07	3.13E-07	2.77E-07	3.12E-07	4.1409E-04
520634.62	4258472.69	21715.82923	0.13941	0.1446	0.13492	0.1514	4.13E-04	3.27E-07	2.97E-07	3.17E-07	2.98E-07	4.1402E-04
520647.89	4258211.22	21701.97585	0.11974	0.15196	0.11831	0.15775	4.13E-04	2.81E-07	3.12E-07	2.78E-07	3.11E-07	4.1370E-04
520616.34	4258941.3	21683.79938	0.1719	0.09993	0.16667	0.10392	4.12E-04	4.04E-07	2.05E-07	3.91E-07	2.05E-07	4.1337E-04
520603.85	4258966.49	21678.15081	0.18004	0.0993	0.17423	0.10334	4.12E-04	4.23E-07	2.04E-07	4.09E-07	2.03E-07	4.1330E-04
520649.28	4258221.83	21675.52869	0.12007	0.15108	0.11863	0.15671	4.12E-04	2.82E-07	3.10E-07	2.79E-07	3.08E-07	4.1319E-04
520095.31	4259220.66	21667.64588	11.78707	0.18528	11.30752	0.17533	4.12E-04	2.77E-05	3.80E-07	2.65E-05	3.45E-07	4.6681E-04
520631.32	4258907.99	21666.69247	0.16249	0.10113	0.15778	0.10496	4.12E-04	3.81E-07	2.07E-07	3.70E-07	2.07E-07	4.1301E-04
520634.91	4258899.4	21661.92698	0.16028	0.10151	0.15565	0.10528	4.12E-04	3.76E-07	2.08E-07	3.65E-07	2.07E-07	4.1291E-04
520638.51	4258890.81	21645.0008	0.15807	0.10188	0.15352	0.1056	4.11E-04	3.71E-07	2.09E-07	3.60E-07	2.08E-07	4.1258E-04
520674.17	4258709.89	21632.43669	0.13291	0.11512	0.12864	0.11897	4.11E-04	3.12E-07	2.36E-07	3.02E-07	2.34E-07	4.1228E-04
520642.11	4258882.22	21621.48989	0.15588	0.10226	0.15141	0.10593	4.11E-04	3.66E-07	2.10E-07	3.55E-07	2.09E-07	4.1213E-04
520046.24	4258390.27	21609.27118	0.29544	7.13838	0.31452	5.41589	4.11E-04	6.94E-07	1.46E-05	7.38E-07	1.07E-05	4.3749E-04
520645.7	4258873.63	21587.55408	0.15371	0.10262	0.1493	0.10624	4.10E-04	3.61E-07	2.10E-07	3.51E-07	2.09E-07	4.1147E-04
520637.83	4258455.25	21584.3424	0.13757	0.14404	0.13347	0.15081	4.10E-04	3.23E-07	2.95E-07	3.13E-07	2.97E-07	4.1151E-04
519914.81	4258798.15	21583.16131	0.49454	0.46059	0.53538	0.44248	4.10E-04	1.16E-06	9.45E-07	1.26E-06	8.71E-07	4.1449E-04
520207.94	4258112.72	21581.23858	0.16276	1.95586	0.16451	2.16442	4.10E-04	3.82E-07	4.01E-06	3.86E-07	4.26E-06	4.1926E-04
519957.12	4258655.32	21579.40761	0.50808	0.93077	0.56808	0.87603	4.10E-04	1.19E-06	1.91E-06	1.33E-06	1.72E-06	4.1635E-04
520198.12	4258122.69	21572.26872	0.16505	2.17512	0.16632	2.4193	4.10E-04	3.87E-07	4.46E-06	3.90E-07	4.76E-06	4.2005E-04
519917.82	4258781.3	21558.25079	0.49044	0.4914	0.53146	0.47164	4.10E-04	1.15E-06	1.01E-06	1.25E-06	9.28E-07	4.1412E-04
520675.64	4258754.24	21552.55334	0.13441	0.10992	0.13014	0.11373	4.10E-04	3.16E-07	2.25E-07	3.06E-07	2.24E-07	4.1075E-04
519907.89	4258853.81	21544.04826	0.51639	0.37739	0.55721	0.36493	4.10E-04	1.21E-06	7.74E-07	1.31E-06	7.18E-07	4.1353E-04
520649.3	4258865.04	21543.46457	0.15157	0.10289	0.14718	0.10648	4.10E-04	3.56E-07	2.11E-07	3.46E-07	2.10E-07	4.1062E-04
520045.87	4259187.25	21536.31597	5.898	0.18593	8.17959	0.18093	4.09E-04	1.38E-05	3.81E-07	1.92E-05	3.56E-07	4.4315E-04
520063.58	4258333.18	21534.87008	0.24735	18.29936	0.26303	9.6878	4.09E-04	5.81E-07	3.75E-05	6.18E-07	1.91E-05	4.6714E-04
520671.37	4258788.38	21532.57284	0.13776	0.10741	0.13341	0.11084	4.09E-04	3.23E-07	2.20E-07	3.13E-07	2.18E-07	4.1037E-04
520188.3	4258132.66	21528.64559	0.16736	2.43547	0.16822	2.72473	4.09E-04	3.93E-07	4.99E-06	3.95E-07	5.36E-06	4.2037E-04
520641.17	4258438.16	21528.23171	0.13568	0.14354	0.13188	0.15018	4.09E-04	3.19E-07	2.94E-07	3.10E-07	2.96E-07	4.1043E-04
519928.92	4258735.72	21524.73295	0.48705	0.5992	0.53411	0.57204	4.09E-04	1.14E-06	1.23E-06	1.25E-06	1.13E-06	4.1390E-04
519909	4258928.82	21509.18344	0.58455	0.29913	0.63157	0.29367	4.09E-04	1.37E-06	6.13E-07	1.48E-06	5.78E-07	4.1290E-04
520653.83	4258316.18	21508.93212	0.12508	0.14383	0.12311	0.15047	4.09E-04	2.94E-07	2.95E-07	2.89E-07	2.96E-07	4.1002E-04
520119.5	4258822.44	21504.06249	0.19495	7.762	0.19845	9.13619	4.09E-04	4.58E-07	1.59E-05	4.66E-07	1.80E-05	4.4358E-04
520652.9	4258856.44	21488.47926	0.14942	0.10317	0.14506	0.10672	4.08E-04	3.51E-07	2.12E-07	3.41E-07	2.10E-07	4.0957E-04
520032.83	4258474.07	21478.54246	0.44214	4.54755	0.48265	3.67788	4.08E-04	1.04E-06	9.33E-06	1.13E-06	7.24E-06	4.2701E-04
520652.07	4258233.03	21471.25971	0.12005	0.14934	0.11860	0.15485	4.08E-04	2.82E-07	3.06E-07	2.79E-07	3.05E-07	4.0930E-04
520654.25	4258291.42	21459.16066	0.12334	0.1451	0.12195	0.15142	4.08E-04	2.90E-07	2.98E-07	2.86E-07	2.98E-07	4.0907E-04
520029.36	4258492.3	21456.00994	0.48734	4.0818	0.53773	3.35986	4.08E-04	1.14E-06	8.37E-06	1.26E-06	6.61E-06	4.2523E-04
520656.5	4258847.85	21427.75959	0.14731	0.10363	0.14306	0.1071	4.07E-04	3.46E-07	2.13E-07	3.36E-07	2.11E-07	4.0841E-04
520139.17	4258192.5	21423.74751	0.18428	5.04568	0.18574	5.8407	4.07E-04	4.33E-07	1.03E-05	4.36E-07	1.15E-05	4.2994E-04
520178.48	4258142.63	21413.88246	0.16955	2.75115	0.17018	3.0912	4.07E-04	3.98E-07	5.64E-06	4.00E-07	6.08E-06	4.1956E-04
520613.93	4258952.31	21406.69531	0.17348	0.09907	0.16812	0.10305	4.07E-04	4.07E-07	2.03E-07	3.95E-07	2.03E-07	4.0811E-04
520653.41	4258243.62	21391.93252	0.12038	0.14826	0.11909	0.15378	4.07E-04	2.83E-07	3.04E-07	2.80E-07	3.03E-07	4.0779E-04
519920.74	4258764.21	21378.58328	0.48382	0.52504	0.52567	0.50332	4.06E-04	1.14E-06	1.08E-06	1.23E-06	9.91E-07	4.1081E-04
520677.18	4258726.64	21365.75251	0.13246	0.11222	0.12826	0.11614	4.06E-04	3.11E-07	2.30E-07	3.01E-07	2.29E-07	4.0720E-04
520660.09	4258839.26	21355.18312	0.1452	0.10405	0.14105	0.10744	4.06E-04	3.41E-07	2.13E-07	3.31E-07	2.11E-07	4.0702E-04
520626.23	4258927.2	21347.25164	0.16577	0.09967	0.16086	0.10355	4.06E-04	3.89E-07	2.04E-07	3.78E-07	2.04E-07	4.0695E-04
520036.38	4258441.17	21312.87662	0.36748	5.1098	0.39463	4.09337	4.05E-04	8.63E-07	1.05E-05	9.26E-07	8.06E-06	4.2545E-04
520019.48	4258521.43	21312.1974	0.54311	3.11741	0.61576	2.64249	4.05E-04	1.28E-06	6.39E-06	1.45E-06	5.20E-06	4.1942E-04
520654.85	4258264.25	21287.27911	0.12069	0.14701	0.11947	0.15264	4.05E-04	2.83E-07	3.02E-07	2.80E-07	3.00E-07	4.0580E-04
520674.99	4258779.73	21278.33961	0.13578	0.10739	0.13149	0.11089	4.04E-04	3.19E-07	2.20E-07	3.09E-07	2.18E-07	4.0553E-04
520085.41	4259220.68	21274.03973	15.74677	0.18291	17.82027	0.17407	4.04E-04	3.70E-05	3.75E-07	4.18E-05	3.43E-07	4.8390E-04
519905.17	4258895.46	21266.79744	0.53782	0.32873	0.58031	0.32028	4.04E-04	1.26E-06	6.74E-07	1.36E-06	6.30E-07	4.0817E-04
520168.66	4258152.6	21260.04375	0.17174	3.13782	0.17227	3.54327	4.04E-04	4.03E-07	6.44E-06	4.04E-07	6.97E-06	4.1833E-04
520663.69	4258830.67	21259.57254	0.14314	0.10435	0.13901	0.10767	4.04E-04	3.36E-07	2.14E-07	3.26E-07	2.12E-07	4.0519E-04
520055.26	4259199.9	21237.40478	8.3029	0.18328	14.25239	0.1775	4.04E-04	1.95E-05	3.76E-07	3.35E-05	3.49E-07	4.5736E-04
520099.83	4258252.38	21206.84799	0.20533	14.65545	0.21217	15.72365	4.03E-04	4.82E-07	3.01E-05	4.98E-07	3.10E-05	4.6510E-04
519904.73	4258870.3	21171.6787	0.51471	0.35488	0.55452	0.3441	4.02E-04	1.21E-06	7.28E-07	1.30E-06	6.77E-07	4.0635E-04
520679.29	4258745.53	21167.35049	0.1325	0.1099	0.12839	0.11372	4.02E-04	3.11E-07	2.25E-07	3.01E-07	2.24E-07	4.0341E-04
520656.41	4258264.93	21144.38484	0.12097	0.14563	0.11976	0.15141	4.02E-04	2.84E-07	2.99E-07	2.81E-07	2.98E-07	4.0308E-04
520667.29	4258822.08	21144.16031	0.14113	0.10449	0.13696	0.10777	4.02E-04	3.31E-07	2.14E-07	3.22E-07	2.12E-07	4.0299E-04
520047.06	4258379.95	21139.65758	0.2817	7.35746	0.29957	5.55724	4.02E-04	6.61E-07	1.51E-05	7.03E-07	1.09E-05	4.2922E-04
519905.23	4258919.72	21116.96492	0.55669	0.30497	0.60048	0.29867	4.01E-04	1.31E-06	6.25E-07	1.41E-06	5.88E-07	4.0533E-04
519910.19	4258811.13	21106.0122	0.48483	0.43419	0.52373	0.41766	4.01E-04	1.14E-06	8.90E-07	1.23E-06	8.22E-07	4.0527E-04
520638.09	4258481.82	21090.89776	0.13835	0.14258	0.13364	0.14919	4.01E-04	3.25E-07	2.92E-07	3.14E-07	2.94E-07	4.0212E-04
520677.72	4258701.39	21074.3778	0.13113	0.11497	0.12687	0.1187	4.01E-04	3.08E-07	2.36E-07	2.98E-07	2.34E-07	4.0166E-04
520158.84	4258162.57	21071.20597	0.17393	3.62043	0.1745	4.11545	4.01E-04	4.08E-07	7.43E-06	4.10E-07	8.10E-06	4.1687E-04
520095.33	4259230.66	21057.33166	11.72894	0.18105	11.2421	0.17142	4.00E-04	2.75E-05	3.71E-07	2.64E-05	3.37E-07	4.5490E-04
520129.35	4258202.47	21054.06771	0.18628	6.16192	0.18848	7.19834	4.00E-04	4.37E-07	1.26E-05	4.42E-07	1.42E-05	4.2789E-04
520657.61	4258300.24	21052.4063	0.12295	0.14289	0.12131	0.14929	4.00E-04	2.89E-07	2.93E-07	2.85E-07	2.94E-07	4.0133E-04
520612.53	4258962.89	21047.85431	0.1744	0.09802	0.16888	0.10196	4.00E-04	4.09E-07	2.01E-07	3.96E-07	2.01E-07	4.0129E-04
519940.87	4258692.19	21026.70548	0.48265	0.73699	0.53331	0.69943	4.00E-04	1.13E-06	1.51E-06	1.25E-06	1.38E-06	4.0495E-04
520624.84	4258937.78	21023.17104	0.1667	0.09861	0.16169	0.10248	4.00E-04	3.91E-07	2.02E-07	3.80E-07	2.02E-07	4.0079E-04
519907.23	4258828.09	21005.69672	0.48758	0.4077	0.52597	0.39282	3.99E-04	1.14E-06	8.36E-07	1.23E-06	7.73E-07	4.0327E-04
520678.62	4258771.08	21000.63915	0.13386	0.10734	0.12964	0.11091	3.99E-04	3.14E-07	2.20E-07	3.04E-07	2.18E-07	4.0024E-04
520670.88	4258813.49	20983.85832	0.13909	0.10465	0.13492	0.1079	3.99E-04	3.27E-07	2.15E-07	3.17E-07	2.12E-07	3.9994E-04
519931.79	4258718.53	20969.01441	0.47566	0.64186	0.52312	0.61159	3.99E-04	1.12E-06	1.32E-06	1.23E-06	1.20E-06	4.0345E-04
519923.53	4258746.84	20968.54431	0.47286	0.56176	0.51725	0.53714	3.99E-04	1.11E-06	1.15E-06	1.21E-06	1.06E-06	4.0311E-04
520109.68	4258232.41	20963.87994	0.19654	10.27337	0.20136	11.9517	3.98E-04	4.61E-07	2.11E-05	4.73E-07	2.35E-05	4.4402E-04
520656.94	4258350.21	20938.84714	0.12605	0.14094	0.12322	0.14726	3.98E-04	2.96E-07	2.89E-07	2.89E-07	2.90E-07	3.9917E-04
520653.31	4258392.43	20901.49855	0.1294	0.14064	0.12604	0.14682	3.97E-04	3.04E-07	2.88E-07	2.96E-07	2.89E-07	3.9848E-04
520641.26	4258464.26	20897.25349	0.13659	0.14207	0.13228	0.14871	3.97E-04	3.21E-07	2.91E-07	3.11E-07	2.93E-07	3.9843E-04
520009.56	4258540.87	20866.49543	0.55231	2.45583	0.63502	2.13794	3.97E-04	1.30E-06	5.04E-06	1.49E-06	4.21E-06	4.0867E-04
520674.48	4258804.9	20852.55573	0.13716	0.10488	0.13302	0.1081	3.96E-04	3.22E-07	2.15E-07	3.12E-07	2.13E-07	3.9743E-04
520655.45	4258204.44	20845.08248	0.11737	0.14816	0.11585	0.15381	3.96E-04	2.76E-07	3.04E-07	2.72E-07	3.03E-07	3.9738E-04
519947.12	4258673.87	20842.58495	0.48421	0.81349	0.53777	0.76919	3.96E-04	1.14E-06	1.67E-06	1.26E-06	1.51E-06	4.0176E-04
520149.02	4258172.53	20837.37993	0.17607	4.23751	0.17685	4.85736	3.96E-04	4.13E-07	8.69E-06	4.15E-07	9.56E-06	4.1516E-04
520655.81	4258215.03	20811.30406	0.11767	0.14736	0.11615	0.15283	3.96E-04	2.76E-07	3.02E-07	2.72E-07	3.01E-07	3.9674E-04
519904.17	4258844.83	20808.95654	0.48874	0.38316	0.52614	0.36998	3.96E-04	1.15E-06	7.86E-07	1.24E-06	7.28E-07	3.9944E-04
520063.96	4258323.03	20793.6551	0.23693	18.78887	0.25158	9.82144	3.95E-04	5.56E-07	3.85E-05	5.91E-07	1.93E-05	4.5426E-04
520045.36	4259199.92	20784.36055	5.85024	0.18034	8.03087	0.17558	3.95E-04	1.37E-05	3.70E-07	1.89E-05	3.46E-07	4.2838E-04
520029.32	4258482.6	20768.00252	0.45428	4.11072	0.49767	3.37868	3.95E-04	1.07E-06	8.43E-06	1.17E-06	6.65E-06	4.1208E-04
520622.67	4258948.69	20754.61656	0.16807	0.0977	0.16292	0.10157	3.95E-04	3.95E-07	2.00E-07	3.82E-07	2.00E-07	3.9569E-04
520682.94	4258736.81	20750.97498	0.13067	0.10973	0.12665	0.11354	3.94E-04	3.07E-07	2.25E-07	2.97E-07	2.24E-07	3.9549E-04
520658.26	4258225.67	20745.5361	0.11795	0.14641	0.11648	0.15178	3.94E-04	2.77E-07	3.00E-07	2.73E-07	2.99E-07	3.9548E-04
519901.5	4258886.61	20743.64558	0.51165	0.33448	0.55083	0.32515	3.94E-04	1.20E-06	6.86E-07	1.29E-06	6.40E-07	3.9812E-04
520198.15	4258112.69	20710.70292	0.16013	2.17684	0.16104	2.41905	3.94E-04	3.76E-07	4.46E-06	3.78E-07	4.76E-06	4.0365E-04
520682.24	4258762.43	20699.24892	0.13201	0.10727	0.12789	0.11091	3.93E-04	3.10E-07	2.20E-07	3.00E-07	2.18E-07	3.9450E-04
520656.79	4258375.69	20698.62791	0.12743	0.13995	0.12422	0.14606	3.93E-04	2.99E-07	2.87E-07	2.92E-07	2.88E-07	3.9461E-04
519999.65	4258560.31	20695.50058	0.55058	1.98023	0.63651	1.76235	3.93E-04	1.29E-06	4.06E-06	1.49E-06	3.47E-06	4.0370E-04
519901.45	4258910.62	20682.46033	0.5299	0.31075	0.57056	0.30357	3.93E-04	1.24E-06	6.37E-07	1.34E-06	5.98E-07	3.9695E-04
520638.35	4258915.13	20677.68898	0.15866	0.09872	0.15407	0.10242	3.93E-04	3.72E-07	2.02E-07	3.62E-07	2.02E-07	3.9418E-04
520085.43	4259230.68	20675.7744	15.79691	0.17873	17.66177	0.17018	3.93E-04	3.71E-05	3.67E-07	4.15E-05	3.35E-07	4.7226E-04
519989.73	4258579.74	20674.37442	0.54068	1.62784	0.62715	1.47508	3.93E-04	1.27E-06	3.34E-06	1.47E-06	2.90E-06	4.0197E-04
520188.33	4258122.66	20672.90001	0.16231	2.43701	0.16282	2.72582	3.93E-04	3.81E-07	5.00E-06	3.82E-07	5.37E-06	4.0408E-04
520641.92	4258906.59	20672.10396	0.15656	0.09908	0.15206	0.10273	3.93E-04	3.68E-07	2.03E-07	3.57E-07	2.02E-07	3.9407E-04
520678.08	4258796.31	20667.84733	0.13526	0.10498	0.13112	0.10822	3.93E-04	3.17E-07	2.15E-07	3.08E-07	2.13E-07	3.9391E-04
520055.28	4259209.9	20666.86716	8.32508	0.17911	14.36016	0.17351	3.93E-04	1.95E-05	3.67E-07	3.37E-05	3.42E-07	4.4681E-04
519979.81	4258599.18	20656.42493	0.52484	1.35722	0.60391	1.2525	3.93E-04	1.23E-06	2.78E-06	1.42E-06	2.47E-06	4.0054E-04
520645.5	4258898.06	20656.14146	0.15446	0.09944	0.15005	0.10304	3.93E-04	3.63E-07	2.04E-07	3.52E-07	2.03E-07	3.9376E-04
520660.97	4258309.06	20648.18794	0.12254	0.14075	0.1206	0.14717	3.92E-04	2.88E-07	2.89E-07	2.83E-07	2.90E-07	3.9363E-04
520649.07	4258889.52	20635.82308	0.15239	0.09981	0.14806	0.10336	3.92E-04	3.58E-07	2.05E-07	3.48E-07	2.03E-07	3.9336E-04
520047.74	4258369.68	20632.10161	0.26897	7.54648	0.28579	5.67799	3.92E-04	6.31E-07	1.55E-05	6.71E-07	1.12E-05	4.2014E-04
520119.53	4258212.44	20618.41027	0.18804	7.77724	0.19126	9.13248	3.92E-04	4.41E-07	1.60E-05	4.49E-07	1.80E-05	4.2674E-04
520652.65	4258880.99	20607.97794	0.15031	0.10018	0.14607	0.10368	3.92E-04	3.53E-07	2.05E-07	3.43E-07	2.04E-07	3.9283E-04
520661.58	4258284.79	20584.51992	0.12084	0.14186	0.11942	0.14794	3.91E-04	2.84E-07	2.91E-07	2.80E-07	2.91E-07	3.9242E-04
520178.51	4258132.63	20567.69602	0.16438	2.75241	0.16468	3.09419	3.91E-04	3.86E-07	5.64E-06	3.87E-07	6.09E-06	4.0346E-04
520656.22	4258872.46	20566.31483	0.14828	0.10047	0.14407	0.10394	3.91E-04	3.48E-07	2.06E-07	3.38E-07	2.05E-07	3.9203E-04
520054.26	4258347.01	20553.43368	0.25083	10.03674	0.26679	6.94661	3.91E-04	5.89E-07	2.06E-05	6.26E-07	1.37E-05	4.2635E-04
519911.14	4258789.3	20557.36981	0.46546	0.46481	0.50223	0.44693	3.91E-04	1.09E-06	9.53E-07	1.18E-06	8.80E-07	3.9486E-04
520660.79	4258236.77	20553.36257	0.11801	0.14477	0.11659	0.15013	3.91E-04	2.77E-07	2.97E-07	2.74E-07	2.96E-07	3.9183E-04
520139.2	4258182.5	20542.31207	0.17807	5.05349	0.17933	5.83902	3.90E-04	4.18E-07	1.04E-05	4.21E-07	1.15E-05	4.1317E-04
519901.03	4258861.38	20528.6378	0.48836	0.36049	0.52475	0.34896	3.90E-04	1.15E-06	7.39E-07	1.23E-06	6.87E-07	3.9402E-04
519969.89	4258618.62	20527.1337	0.5065	1.15231	0.57411	1.0773	3.90E-04	1.19E-06	2.36E-06	1.35E-06	2.12E-06	3.9720E-04
520659.79	4258863.92	20521.40625	0.14625	0.10076	0.14209	0.10419	3.90E-04	3.43E-07	2.07E-07	3.34E-07	2.05E-07	3.9116E-04
520032.97	4258449.47	20520.88354	0.37658	4.61742	0.40539	3.75703	3.90E-04	8.84E-07	9.47E-06	9.52E-07	7.40E-06	4.0877E-04
519901.96	4258935.97	20515.18549	0.55024	0.2883	0.59299	0.28306	3.90E-04	1.29E-06	5.91E-07	1.39E-06	5.57E-07	3.9379E-04
520681.28	4258692.9	20497.21156	0.1294	0.1147	0.1251	0.11832	3.90E-04	3.04E-07	2.35E-07	2.94E-07	2.33E-07	3.9068E-04
520095.34	4259240.66	20471.17866	11.68977	0.17698	11.17173	0.16766	3.89E-04	2.74E-05	3.63E-07	2.62E-05	3.30E-07	4.4348E-04
520663.37	4258853.39	20466.87288	0.14423	0.10117	0.14016	0.10453	3.89E-04	3.39E-07	2.07E-07	3.29E-07	2.06E-07	3.9012E-04
519957.12	4258646.05	20452.06007	0.48759	0.95035	0.54413	0.89559	3.89E-04	1.14E-06	1.95E-06	1.28E-06	1.76E-06	3.9489E-04
520662.19	4258247.38	20451.52988	0.11831	0.14362	0.11697	0.14906	3.89E-04	2.78E-07	2.95E-07	2.75E-07	2.93E-07	3.8989E-04
520681.67	4258787.72	20445.50447	0.13334	0.10648	0.12925	0.10828	3.89E-04	3.13E-07	2.15E-07	3.03E-07	2.13E-07	3.8968E-04
520660.35	4258359.17	20434.42235	0.12545	0.13905	0.12243	0.14516	3.88E-04	2.95E-07	2.85E-07

520664.31	4258208.23	19999.23357	0.11534	0.14378	0.11374	0.14911	3.80E-04	2.71E-07	2.95E-07	2.67E-07	2.94E-07	3.8128E-04
520681.23	4258812.71	19969.67304	0.13453	0.1024	0.13058	0.10549	3.80E-04	3.16E-07	2.10E-07	3.07E-07	2.08E-07	3.8063E-04
520054.84	4258336.79	19963.55788	0.24036	10.30052	0.25539	7.09594	3.79E-04	5.64E-07	2.11E-05	6.00E-07	1.40E-05	4.1573E-04
520665.72	4258218.85	19938.13237	0.11563	0.1429	0.11405	0.14813	3.79E-04	2.71E-07	2.93E-07	2.68E-07	2.92E-07	3.8031E-04
520663.76	4258368.13	19929.14063	0.12484	0.13717	0.12166	0.1431	3.79E-04	2.93E-07	2.81E-07	2.86E-07	2.82E-07	3.7996E-04
520684.84	4258684.41	19907.5946	0.1277	0.11448	0.12338	0.11801	3.78E-04	3.00E-07	2.35E-07	2.90E-07	2.32E-07	3.7946E-04
520095.36	4259250.66	19905.24901	11.69115	0.17304	11.0871	0.16403	3.78E-04	2.74E-05	3.55E-07	2.60E-05	3.23E-07	4.3252E-04
520688.87	4258770.54	19893.29917	0.12963	0.1048	0.12567	0.10825	3.78E-04	3.04E-07	2.15E-07	2.95E-07	2.13E-07	3.7916E-04
520687.77	4258701.33	19892.43439	0.12729	0.11218	0.12329	0.1157	3.78E-04	2.99E-07	2.30E-07	2.89E-07	2.28E-07	3.7917E-04
519947.12	4258664.6	19862.53455	0.46604	0.83188	0.51656	0.78703	3.78E-04	1.09E-06	1.71E-06	1.21E-06	1.55E-06	3.8311E-04
520667.24	4258229.51	19859.70174	0.11593	0.14183	0.11439	0.14707	3.77E-04	2.72E-07	2.91E-07	2.69E-07	2.90E-07	3.7862E-04
520188.36	4258112.66	19854.56096	0.15745	2.43901	0.15771	2.72446	3.77E-04	3.70E-07	5.00E-06	3.70E-07	5.36E-06	3.8850E-04
519897.34	4258852.47	19849.95687	0.4632	0.36565	0.49644	0.35352	3.77E-04	1.09E-06	7.50E-07	1.17E-06	6.96E-07	3.8101E-04
520690.24	4258719.38	19839.74301	0.12712	0.10958	0.12327	0.1132	3.77E-04	2.98E-07	2.25E-07	2.89E-07	2.23E-07	3.7815E-04
520629.9	4258955.7	19822.08149	0.16379	0.09537	0.15868	0.09911	3.77E-04	3.85E-07	1.96E-07	3.73E-07	1.95E-07	3.7793E-04
520668.53	4258303.05	19804.98978	0.12007	0.13738	0.11808	0.14362	3.76E-04	2.82E-07	2.82E-07	2.77E-07	2.83E-07	3.7758E-04
520684.81	4258804.18	19796.43829	0.13266	0.1025	0.12873	0.1056	3.76E-04	3.11E-07	2.10E-07	3.02E-07	2.08E-07	3.7733E-04
520668.77	4258277.8	19796.2655	0.11849	0.13874	0.11699	0.14463	3.76E-04	2.78E-07	2.85E-07	2.75E-07	2.85E-07	3.7741E-04
520119.56	4258202.44	19792.77796	0.18156	7.79141	0.18451	9.1313	3.76E-04	4.26E-07	1.60E-05	4.33E-07	1.80E-05	4.1104E-04
520178.54	4258122.63	19770.45398	0.15945	2.75337	0.15947	3.09617	3.76E-04	3.74E-07	5.65E-06	3.74E-07	6.09E-06	3.8829E-04
520645.39	4258922.27	19752.40743	0.15491	0.09637	0.15038	0.09995	3.75E-04	3.64E-07	1.98E-07	3.53E-07	1.97E-07	3.7657E-04
520648.94	4258913.78	19746.26371	0.15291	0.09672	0.14849	0.10026	3.75E-04	3.59E-07	1.98E-07	3.49E-07	1.97E-07	3.7644E-04
519894.48	4258917.91	19738.25108	0.50055	0.29893	0.53727	0.2921	3.75E-04	1.18E-06	6.13E-07	1.26E-06	5.75E-07	3.7881E-04
520652.49	4258905.3	19732.55642	0.15093	0.09708	0.14661	0.10057	3.75E-04	3.54E-07	1.99E-07	3.44E-07	1.98E-07	3.7618E-04
520139.23	4258172.5	19732.20315	0.17226	5.05745	0.1733	5.84905	3.75E-04	4.04E-07	1.04E-05	4.07E-07	1.15E-05	3.9777E-04
520045.81	4259219.92	19730.08532	5.98326	0.17245	8.27515	0.16793	3.75E-04	1.40E-05	3.54E-07	1.94E-05	3.31E-07	4.0919E-04
520036.34	4258404.35	19727.09991	0.29839	5.13151	0.31683	4.15242	3.75E-04	7.01E-07	1.05E-05	7.44E-07	8.17E-06	3.9512E-04
520656.04	4258896.82	19713.73734	0.14895	0.09744	0.14472	0.10088	3.75E-04	3.50E-07	2.00E-07	3.40E-07	1.99E-07	3.7581E-04
520648.13	4258482.3	19711.298	0.13454	0.13846	0.12989	0.14472	3.75E-04	3.16E-07	2.84E-07	3.05E-07	2.85E-07	3.7587E-04
519893.91	4258892.43	19695.57417	0.47962	0.32181	0.5143	0.31289	3.74E-04	1.13E-06	6.60E-07	1.21E-06	6.16E-07	3.7799E-04
520659.59	4258888.33	19689.24808	0.14699	0.0978	0.14285	0.10119	3.74E-04	3.45E-07	2.01E-07	3.35E-07	1.99E-07	3.7534E-04
520668.52	4258240.5	19683.25469	0.11605	0.14026	0.11455	0.14559	3.74E-04	2.72E-07	2.88E-07	2.69E-07	2.87E-07	3.7526E-04
520684.89	4258674.93	19668.31814	0.12727	0.11517	0.1228	0.11872	3.74E-04	2.99E-07	2.36E-07	2.88E-07	2.34E-07	3.7492E-04
520667.37	4258351.74	19666.19584	0.12293	0.13621	0.11993	0.14216	3.74E-04	2.89E-07	2.79E-07	2.82E-07	2.80E-07	3.7495E-04
520663.15	4258879.85	19659.28056	0.14502	0.09816	0.14099	0.1015	3.74E-04	3.40E-07	2.01E-07	3.31E-07	2.00E-07	3.7476E-04
520660.26	4258410.69	19636.75726	0.12787	0.13671	0.12435	0.14269	3.73E-04	3.00E-07	2.80E-07	2.92E-07	2.81E-07	3.7441E-04
520693.1	4258736.48	19632.33065	0.1267	0.10724	0.12299	0.11084	3.73E-04	2.97E-07	2.20E-07	2.89E-07	2.18E-07	3.7420E-04
520168.72	4258132.6	19625.39065	0.16133	3.1407	0.16133	3.55034	3.73E-04	3.79E-07	6.44E-06	3.79E-07	6.99E-06	3.8723E-04
520692.46	4258761.95	19623.05703	0.12792	0.10477	0.12407	0.10827	3.73E-04	3.00E-07	2.15E-07	2.91E-07	2.13E-07	3.7402E-04
520666.7	4258871.37	19612.97495	0.14311	0.0984	0.13909	0.10171	3.73E-04	3.36E-07	2.02E-07	3.27E-07	2.00E-07	3.7387E-04
520055.72	4259229.9	19602.9869	8.55555	0.17129	15.13791	0.16599	3.73E-04	2.01E-05	3.51E-07	3.55E-05	3.27E-07	4.2892E-04
519919.76	4258737.74	19592.64565	0.44084	0.56397	0.48107	0.53973	3.72E-04	1.03E-06	1.16E-06	1.16E-06	1.06E-06	3.7680E-04
520688.38	4258795.64	19592.12583	0.13082	0.10252	0.1269	0.10565	3.72E-04	3.07E-07	2.10E-07	2.98E-07	2.08E-07	3.7343E-04
519894.16	4258868.92	19585.11416	0.46259	0.3449	0.4953	0.33414	3.72E-04	1.09E-06	7.07E-07	1.16E-06	6.58E-07	3.7589E-04
520670.25	4258862.89	19565.61031	0.1412	0.09873	0.13724	0.10199	3.72E-04	3.31E-07	2.02E-07	3.22E-07	2.01E-07	3.7296E-04
520663.67	4258393.76	19564.01361	0.12606	0.13604	0.12264	0.14192	3.72E-04	2.96E-07	2.79E-07	2.88E-07	2.79E-07	3.7302E-04
520085.46	4259250.68	19563.18816	15.66186	0.17087	17.2853	0.16287	3.72E-04	3.68E-05	3.50E-07	4.06E-05	3.21E-07	4.4988E-04
520099.89	4258232.38	19556.62523	0.19058	14.7417	0.19647	15.88256	3.72E-04	4.47E-07	3.02E-05	4.61E-07	3.13E-05	4.3414E-04
520670.97	4258251.13	19553.14054	0.11631	0.13909	0.11486	0.14453	3.72E-04	2.73E-07	2.85E-07	2.70E-07	2.85E-07	3.7278E-04
520037.55	4258393.86	19538.64378	0.28501	5.32381	0.30216	4.28954	3.71E-04	6.69E-07	1.09E-05	7.09E-07	8.44E-06	3.9214E-04
520651.36	4258464.93	19528.33809	0.13286	0.13779	0.12857	0.1441	3.71E-04	3.12E-07	2.83E-07	3.02E-07	2.84E-07	3.7238E-04
520673.8	4258854.4	19509.32005	0.13929	0.09907	0.13541	0.10227	3.71E-04	3.27E-07	2.03E-07	3.18E-07	2.01E-07	3.7189E-04
519907.47	4258780.46	19505.3606	0.43782	0.46825	0.47147	0.45066	3.71E-04	1.03E-06	9.60E-07	1.11E-06	8.87E-07	3.7474E-04
520640.15	4258941.45	19496.06371	0.15792	0.09506	0.15313	0.0987	3.71E-04	3.71E-07	1.95E-07	3.60E-07	1.94E-07	3.7170E-04
520033.64	4258415.45	19491.94429	0.31093	4.74342	0.33078	3.87537	3.71E-04	7.30E-07	9.73E-06	7.77E-07	7.63E-06	3.8937E-04
519928.13	4258709.69	19453.45345	0.44275	0.64164	0.48445	0.61235	3.70E-04	1.04E-06	1.32E-06	1.14E-06	1.21E-06	3.7447E-04
520677.35	4258845.92	19441.29684	0.13742	0.09936	0.13358	0.10249	3.70E-04	3.23E-07	2.04E-07	3.14E-07	2.02E-07	3.7059E-04
520158.9	4258142.57	19433.11661	0.16316	3.62597	0.1633	4.11823	3.69E-04	3.83E-07	7.44E-06	3.83E-07	8.11E-06	3.8570E-04
520672.21	4258286.85	19430.20256	0.11812	0.13654	0.1164	0.14255	3.69E-04	2.77E-07	2.80E-07	2.73E-07	2.81E-07	3.7044E-04
520684.94	4258665.44	19424.75725	0.12689	0.11597	0.12232	0.11957	3.69E-04	2.98E-07	2.38E-07	2.87E-07	2.35E-07	3.7029E-04
520658.19	4258431.12	19419.22395	0.12936	0.13651	0.12564	0.14263	3.69E-04	3.04E-07	2.80E-07	2.95E-07	2.81E-07	3.7028E-04
520667.17	4258377.09	19411.3212	0.1242	0.13531	0.1209	0.1411	3.69E-04	2.92E-07	2.78E-07	2.84E-07	2.78E-07	3.7010E-04
520129.41	4258182.47	19395.00844	0.17393	6.18218	0.17573	7.19121	3.69E-04	4.08E-07	1.27E-05	4.13E-07	1.42E-05	3.9632E-04
520064.6	4258302.8	19394.15944	0.21821	19.6311	0.23109	10.05715	3.69E-04	5.12E-07	4.03E-05	5.43E-07	1.98E-05	4.2976E-04
520672	4258312.17	19392.08647	0.11961	0.13532	0.11731	0.1415	3.69E-04	2.81E-07	2.78E-07	2.75E-07	2.79E-07	3.6972E-04
520691.95	4258787.11	19390.06791	0.12906	0.10254	0.12519	0.10572	3.69E-04	3.03E-07	2.10E-07	2.94E-07	2.08E-07	3.6959E-04
520055.34	4258326.6	19367.21491	0.23057	10.52954	0.24474	7.22773	3.68E-04	5.41E-07	2.16E-05	5.75E-07	1.42E-05	4.0507E-04
520671.05	4258335.53	19361.86318	0.12102	0.13516	0.11827	0.14115	3.68E-04	2.84E-07	2.77E-07	2.78E-07	2.78E-07	3.6915E-04
520680.9	4258837.44	19359.72192	0.13557	0.09961	0.13176	0.10268	3.68E-04	3.18E-07	2.04E-07	3.09E-07	2.02E-07	3.6903E-04
520095.38	4259260.66	19358.52312	11.70573	0.16925	10.99748	0.16052	3.68E-04	2.75E-05	3.47E-07	2.58E-05	3.16E-07	4.2193E-04
520691.3	4258692.9	19354.67302	0.12565	0.11199	0.12163	0.1154	3.68E-04	2.95E-07	2.30E-07	2.86E-07	2.27E-07	3.6893E-04
520693.89	4258710.67	19351.05602	0.1254	0.10958	0.12162	0.11305	3.68E-04	2.94E-07	2.25E-07	2.86E-07	2.23E-07	3.6886E-04
520109.74	4258212.41	19336.88921	0.18292	10.31592	0.18703	12.0048	3.68E-04	4.29E-07	2.12E-05	4.39E-07	2.36E-05	4.1322E-04
520009.52	4258531.17	19329.75075	0.51618	2.49318	0.58698	2.17029	3.67E-04	1.21E-06	5.11E-06	1.38E-06	4.27E-06	3.7940E-04
519957.12	4258636.77	19323.00011	0.46813	0.96858	0.52212	0.91391	3.67E-04	1.10E-06	1.99E-06	1.23E-06	1.80E-06	3.7341E-04
520696.06	4258753.36	19322.50101	0.12624	0.10479	0.12253	0.10831	3.67E-04	2.96E-07	2.15E-07	2.88E-07	2.13E-07	3.6830E-04
519890.73	4258008.88	19293.22798	0.47707	0.30406	0.51097	0.29643	3.67E-04	1.12E-06	6.24E-07	1.20E-06	5.84E-07	3.7026E-04
520684.46	4258828.95	19261.73554	0.13373	0.09984	0.12994	0.10285	3.66E-04	3.14E-07	2.05E-07	3.05E-07	2.02E-07	3.6716E-04
519937.12	4258683.15	19248.48916	0.44561	0.73301	0.49006	0.69676	3.66E-04	1.05E-06	1.50E-06	1.15E-06	1.37E-06	3.7095E-04
519910.42	4258763.46	19246.14786	0.43124	0.49829	0.46591	0.47901	3.66E-04	1.01E-06	1.02E-06	1.09E-06	9.43E-07	3.6991E-04
519899.71	4258809.97	19244.22131	0.43426	0.41646	0.4656	0.40152	3.66E-04	1.02E-06	8.54E-07	1.09E-06	7.90E-07	3.6955E-04
520038.53	4258383.47	19238.82263	0.27226	5.48569	0.28829	4.40686	3.66E-04	6.39E-07	1.13E-05	6.77E-07	8.67E-06	3.8694E-04
519896.72	4258826.87	19233.91479	0.43731	0.39258	0.46844	0.37879	3.66E-04	1.03E-06	8.05E-07	1.10E-06	7.46E-07	3.6928E-04
520638.58	4258952.11	19229.02908	0.15881	0.09413	0.15389	0.09776	3.66E-04	3.73E-07	1.93E-07	3.61E-07	1.92E-07	3.6663E-04
520045.82	4259229.92	19219.90283	6.01481	0.16865	8.32552	0.16426	3.65E-04	1.41E-05	3.46E-07	1.95E-05	3.23E-07	3.9967E-04
520149.08	4258152.53	19215.42744	0.16497	2.24599	0.1654	2.85748	3.65E-04	3.87E-07	8.71E-06	3.88E-07	9.56E-06	3.8430E-04
520696.73	4258727.83	19212.1974	0.12501	0.10715	0.12138	0.11068	3.65E-04	2.93E-07	2.20E-07	2.85E-07	2.18E-07	3.6621E-04
520670.75	4258360.62	19200.19455	0.12234	0.13442	0.11918	0.14019	3.65E-04	2.87E-07	2.76E-07	2.80E-07	2.76E-07	3.6608E-04
520673.17	4258212.02	19169.57905	0.11336	0.13953	0.1117	0.1446	3.64E-04	2.66E-07	2.86E-07	2.62E-07	2.85E-07	3.6548E-04
519960.85	4258608.92	19151.39117	0.48405	1.1755	0.54914	1.08825	3.64E-04	1.14E-06	2.41E-06	1.29E-06	2.16E-06	3.7103E-04
520685	4258655.96	19145.55574	0.12649	0.11671	0.12184	0.12039	3.64E-04	2.97E-07	2.39E-07	2.86E-07	2.37E-07	3.6498E-04
519890.13	4258883.33	19145.14707	0.45602	0.32685	0.48771	0.31722	3.64E-04	1.07E-06	6.70E-07	1.14E-06	6.24E-07	3.6742E-04
519979.77	4258589.48	19142.73486	0.49963	1.387	0.57406	1.27613	3.64E-04	1.17E-06	2.84E-06	1.35E-06	2.51E-06	3.7175E-04
519902.61	4258792.84	19141.82873	0.42954	0.44217	0.4612	0.42607	3.64E-04	1.01E-06	9.07E-07	1.08E-06	8.39E-07	3.6769E-04
520695.53	4258778.57	19141.16317	0.1273	0.10246	0.1235	0.10572	3.64E-04	2.99E-07	2.10E-07	2.90E-07	2.08E-07	3.6485E-04
520688.01	4258820.47	19134.31536	0.13191	0.1	0.12813	0.10298	3.64E-04	3.10E-07	2.05E-07	3.01E-07	2.03E-07	3.6473E-04
519893.64	4258843.56	19134.30818	0.43909	0.37023	0.46953	0.35773	3.64E-04	1.03E-06	7.59E-07	1.10E-06	7.04E-07	3.6731E-04
519999.61	4258550.61	19101.93836	0.51793	2.01437	0.59321	1.79191	3.63E-04	1.22E-06	4.13E-06	1.39E-06	3.53E-06	3.7336E-04
520055.74	4259239.9	19091.77945	8.60538	0.16754	15.38308	0.1624	3.63E-04	2.02E-05	3.44E-07	3.61E-05	3.20E-07	4.1988E-04
520674.64	4258222.66	19087.97445	0.11364	0.13856	0.11202	0.14362	3.63E-04	2.67E-07	2.84E-07	2.63E-07	2.83E-07	3.6392E-04
519989.69	4258570.05	19084.88471	0.51192	1.65962	0.58831	1.50242	3.63E-04	1.20E-06	3.40E-06	1.38E-06	2.96E-06	3.7171E-04
520675.95	4258270.8	19050.94863	0.11619	0.13568	0.11463	0.1414	3.62E-04	2.73E-07	2.78E-07	2.69E-07	2.78E-07	3.6322E-04
520675.66	4258295.9	19048.73604	0.11771	0.13437	0.11572	0.14043	3.62E-04	2.76E-07	2.76E-07	2.72E-07	2.76E-07	3.6318E-04
520019.4	4258502.04	19045.97721	0.47115	3.18109	0.52164	2.70255	3.62E-04	1.11E-06	6.52E-06	1.22E-06	5.32E-06	3.7620E-04
520085.48	4259260.68	19035.45382	15.64757	0.16714	17.07409	0.15939	3.62E-04	3.67E-05	3.43E-07	4.01E-05	3.14E-07	4.3931E-04
520026.15	4258466.06	19029.41185	0.39509	3.83016	0.42781	3.19431	3.62E-04	9.28E-07	7.86E-06	1.00E-06	6.29E-06	3.7779E-04
520663.74	4258419.81	19012.33298	0.12708	0.13473	0.12347	0.14067	3.61E-04	2.98E-07	2.76E-07	2.90E-07	2.77E-07	3.6253E-04
520119.59	4258192.44	19006.37974	0.17539	7.81034	0.17817	9.08187	3.61E-04	4.12E-07	1.60E-05	4.18E-07	1.79E-05	3.9600E-04
520178.57	4258112.63	19004.65954	0.1547	2.75524	0.15453	3.09456	3.61E-04	3.63E-07	5.65E-06	3.63E-07	6.09E-06	3.7371E-04
520676.22	4258233.35	19001.07453	0.11395	0.13731	0.11234	0.14251	3.61E-04	2.68E-07	2.82E-07	2.64E-07	2.81E-07	3.6227E-04
520691.56	4258811.99	18987.37156	0.13013	0.10014	0.12636	0.1031	3.61E-04	3.06E-07	2.05E-07	2.97E-07	2.03E-07	3.6193E-04
520667.11	4258402.8	18983.26977	0.12532	0.13415	0.12184	0.13994	3.61E-04	2.94E-07	2.75E-07	2.84E-07	2.75E-07	3.6197E-04
520029.38	4258433.94	18978.01154	0.33424	4.21109	0.35718	3.49151	3.61E-04	7.85E-07	8.64E-06	8.39E-07	6.87E-06	3.7787E-04
520699.66	4258744.77	18972.29863	0.12455	0.10481	0.12099	0.10829	3.61E-04	2.92E-07	2.15E-07	2.84E-07	2.13E-07	3.6163E-04
520654.76	4258473.85	18960.98497	0.13187	0.13605	0.12743	0.14219	3.60E-04	3.10E-07	2.79E-07	2.99E-07	2.80E-07	3.6158E-04
520139.26	4258162.5	18960.71709	0.16672	5.06368	0.16762	5.8466	3.60E-04	3.91E-07	1.04E-05	3.94E-07	1.15E-05	3.8309E-04
519890.49	4258860.07	18953.33508	0.43956	0.3495	0.46941	0.33826	3.60E-04	1.03E-06	7.17E-07	1.10E-06	6.66E-07	3.6379E-04
520045.38	4258350.68	18937.74456	0.24313	6.88346	0.25759	5.31291	3.60E-04	5.71E-07	1.41E-05	6.05E-07	1.05E-05	3.8572E-04
520674.4	4258344.35	18935.74323	0.12047	0.13343	0.11752	0.13922	3.60E-04	2.83E-07	2.74E-07	2.76E-07	2.74E-07	3.6104E-04
520652.54	4258929.11	18890.83357	0.15118	0.09415	0.14668	0.09763	3.59E-04	3.55E-07	1.93E-07	3.44E-07	1.92E-07	3.6017E-04
520670.58	4258386.05	18886.16444	0.12353	0.13347	0.12015	0.13914	3.59E-04	2.90E-07	2.74E-07	2.82E-07	2.74E-07	3.6011E-04
520656.2	4258920.38	18882.56718	0.14921	0.09448	0.14483	0.09791	3.59E-04	3.50E-07	1.94E-07	3.40E-07	1.93E-07	3.6000E-04
520699.1	4258770.04	18880.56364	0.12561	0.10238	0.12189	0.10571	3.59E-04	2.95E-07	2.10E-07	2.86E-07	2.08E-07	3.5988E-04
520168.75	4258122.6	18879.40497	0.15652	3.1416	0.15629	3.55243	3.59E-04	3.67E-07	6.44E-06	3.67E-07	6.99E-06	3.7302E-04
519947.12	4258655.32	18873.88321	0.44857	0.84872	0.49621	0.80389	3.59E-04	1.05E-06	1.74E-06	1.16E-06	1.58E-06	3.6430E-04
520659.85	4258911.66	18868.32107	0.14726	0.09483	0.14299	0.09821	3.59E-04	3.46E-07	1.94E-07	3.36E-07	1.93E-07	3.5972E-04
520039.34	4258373.15	18866.58445	0.2603	5.62352	0.27536	4.506	3.59E-04	6.11E-07	1.15E-05	6.46E-07	8.87E-06	3.8028E-04
520663.5	4258402.93	18848.38071	0.14533	0.09518	0.14115	0.09851	3.58E-04	3.41E-07	1.95E-07	3.31E-07	1.94E-07	3.5934E-04
520658.09	4258456.72	18847.87469	0.13022	0.13531	0.1261	0.14147	3.58E-04	3.06E-07	2.78E-07	2.96E-07	2.78E-07	3.5942E-04
520685.05	4258646.48	18847.50972	0.12611	0.11731	0.1214	0.12111	3.58E-04	2.96E-07	2.41E-07	2.85E-07	2.38E-07	3.5932E-04
520697.54	4258701.95	18843.71066	0.12373	0.10948	0.11997	0.11281	3.58E-04	2.90E-07	2.25E-07	2.82E-07	2.22E-07	3.5920E-04
520099.92	4258222.38	18823.11626	0.18393	14.77425	0.18935	16.12868	3.58E-04	4.32E-07	3.03E-05	4.45E-07	3.17E-05	4.2072E-04
520695.11	4258803.51	18822.46452	0.12838	0.10022	0.12463	0.10319	3.58E-04	3.01E-07	2.06E-07	2.93E-07	2.03E-07	3.5878E-04
520678.24	4258244.23	18822.1073	0.11408	0.13592	0.11251	0.14121	3.58E-04	2.68E-07	2.79E-07	2.64E-07	2.78E-07	3.5886E-04
520667.16	4258894.21	18821.67527	0.14339	0.09554	0.13932	0.09882	3.58E-04	3.37E-07	1.96E-07	3.27E-07	1.95E-07	3.5882E-04
519886.99	4258899.85	18814.42376	0.45457	0.30896	0.4857	0.30059	3.58E-04	1.07E-06	6.34E-07	1.14E-06	5.92E-07	3.6106E-04
519913.27	4258746.2	18811.91833	0.42187	0.53069	0.45807	0.50911	3.58E-04	9.90E-07	1.08E-06	1.09E-06	1.06E-06	3.6174E-04
520661.53	4258439.88	18808.76278	0.12853	0.13462	0.12467	0.14069	3.58E-04	3.02E-07	2.76E-07	2.93E-07	2.77E-07	3.5867E-04
520694.84	4258684.46	18803.57535	0.12405	0.11171	0.11999	0.11504	3.57E-04	2.91E-07	2.29E-07	2.82E-07	2.26E-07	3.5845E-04
520670.81	4258885.48	18793.27012	0.14147	0.0959	0.1375	0.09913	3.57E-04	3.32E-07	1.97E-07	3.23E-07	1.95E-07	3.5827E-04
520055.77	4258316.43	18779.4655	0.2214	10.72754	0.2348	7.3244	3.57E-04	5.20E-07	2.20E-05	5.51E-07	1.44E-05	3.9445E-04
520700.35	4258719.18	18772.0444	0.12336	0.10709	0.1198	0.11049	3.57E-04	2.90E-07	2.20E-07	2.81E-07	2.17E-07	3.5783E-04
520674.46	4258876.76	18755.45101	0.13957	0.09623	0.13568	0.09942	3.57E-04	3.28E-07	1.97E-07	3.19E-07	1.96E-07	3.5755E-04
520045.84	4259239.92	18728.14155	0.03691	16.501	8.39069	0.16073	3.56E-04	1.42E-05	3.38E-07	1.97E-05	3.16E-07	3.9051E-04
520096.39	4259273.23	18727.14007	11.41923	0.16484	10.49985	0.15637	3.56E-04	2.68E-05	3.38E-07	2.47E-05	3.08E-07	4.0807E-04
520674.14	4258369.51	18720.35024	0.12171	0.13267	0.11845	0.13828	3.56E-04	2.86E-07	2.72E-07	2.78E-07	2.72E-07	3.5695E-04
520678.12	4258868.03	18707.94563	0.1377	0.09649	0.13385	0.09963	3.56E-04	3.23E-07	1.98E-07	3.14E-07	1.96E-07	3.5664E-04
520158.93	4258132.57	18701.84298	0.15823	3.62666	0.15817	4.12419	3.55E-04	3.71E-07	7.44E-06

520703.97	4258710.53	18312.5041	0.12175	0.10699	0.11822	0.11027	3.48E-04	2.86E-07	2.19E-07	2.78E-07	2.17E-07	3.4909E-04
520696.38	4258824.41	18308.82451	0.12857	0.0978	0.12494	0.10064	3.48E-04	3.02E-07	2.01E-07	2.93E-07	1.98E-07	3.4901E-04
519883.24	4258890.82	18300.221	0.43293	0.31353	0.46139	0.30452	3.48E-04	1.02E-06	6.43E-07	1.08E-06	5.99E-07	3.5120E-04
519886.82	4258851.23	18291.13112	0.41751	0.35359	0.44481	0.34206	3.48E-04	9.80E-07	7.25E-07	1.04E-06	6.73E-07	3.5110E-04
520661.45	4258465.56	18290.79808	0.1293	0.13356	0.12502	0.1396	3.48E-04	3.04E-07	2.74E-07	2.94E-07	2.75E-07	3.4882E-04
520119.62	4258182.44	18287.18717	0.16965	7.82114	0.1722	9.09417	3.48E-04	3.98E-07	1.60E-05	4.04E-07	1.79E-05	3.8235E-04
520682.55	4258314.01	18274.5752	0.11676	0.13065	0.11424	0.13654	3.47E-04	2.74E-07	2.68E-07	2.68E-07	2.69E-07	3.4845E-04
520683.55	4258226.48	18268.65798	0.1117	0.13433	0.11004	0.13929	3.47E-04	2.62E-07	2.76E-07	2.58E-07	2.74E-07	3.4832E-04
520045.86	4259249.92	18251.50847	0.08114	0.16145	8.46322	0.1573	3.47E-04	1.43E-05	3.31E-07	1.99E-05	3.10E-07	3.8171E-04
519915.99	4258728.64	18247.41579	0.41155	0.56481	0.44756	0.54114	3.47E-04	9.66E-07	1.16E-06	1.05E-06	1.07E-06	3.5109E-04
520139.29	4258152.5	18239.59569	0.1615	5.06849	0.16225	5.84583	3.47E-04	3.79E-07	1.04E-05	3.81E-07	1.15E-05	3.6936E-04
520677.52	4258378.4	18236.01905	0.12107	0.13093	0.11773	0.13641	3.47E-04	2.84E-07	2.69E-07	2.76E-07	2.69E-07	3.4773E-04
520096.4	4259283.23	18232.80974	11.41462	0.16135	10.41881	0.15315	3.47E-04	2.68E-06	3.31E-07	2.45E-05	3.01E-07	3.9846E-04
520685.16	4258627.52	18213.75445	0.1254	0.11831	0.12065	0.1224	3.46E-04	2.94E-07	2.43E-07	2.83E-07	2.41E-07	3.4727E-04
520705.77	4258778.06	18208.05134	0.12338	0.10016	0.1198	0.10331	3.46E-04	2.90E-07	2.05E-07	2.81E-07	2.03E-07	3.4708E-04
520706.85	4258727.59	18201.63895	0.12132	0.10466	0.11795	0.108	3.46E-04	2.85E-07	2.15E-07	2.77E-07	2.13E-07	3.4697E-04
520056.16	4258306.28	18200.55583	0.21281	10.90763	0.22553	7.40153	3.46E-04	5.00E-07	2.24E-05	5.29E-07	1.46E-05	3.8393E-04
520700.04	4258815.68	18171.6703	0.12682	0.09794	0.12321	0.10077	3.45E-04	2.98E-07	2.01E-07	2.89E-07	1.98E-07	3.4640E-04
520168.78	4258112.6	18161.39777	0.15187	3.14367	0.15152	3.54925	3.45E-04	3.57E-07	6.45E-06	3.56E-07	6.99E-06	3.5936E-04
519881.35	4258911.69	18152.42536	0.43945	0.29428	0.46835	0.28672	3.45E-04	1.03E-06	6.04E-07	1.10E-06	5.64E-07	3.4834E-04
520685.19	4258237.2	18149.70995	0.11195	0.13305	0.1103	0.13817	3.45E-04	2.63E-07	2.73E-07	2.59E-07	2.72E-07	3.4606E-04
519898.82	4258783.7	18131.34036	0.40417	0.44486	0.43294	0.42922	3.45E-04	9.49E-07	9.12E-07	1.02E-06	8.45E-07	3.4837E-04
520682.43	4258339.55	18126.63381	0.11794	0.13023	0.11497	0.13581	3.45E-04	2.77E-07	2.67E-07	2.70E-07	2.67E-07	3.4564E-04
520055.77	4259259.9	18121.59877	8.72331	0.16041	15.97142	0.15557	3.44E-04	2.05E-05	3.29E-07	3.75E-05	3.06E-07	4.0307E-04
520099.95	4259212.38	18119.40482	0.17763	14.81669	0.18269	16.12089	3.44E-04	4.17E-07	3.04E-05	4.29E-07	3.17E-05	4.0738E-04
520009.48	4258521.48	18100.38872	0.48322	2.52748	0.54365	2.19921	3.44E-04	1.13E-06	5.18E-06	1.28E-06	4.33E-06	3.5598E-04
520659.58	4258936.25	18083.01001	0.14759	0.09199	0.14308	0.09536	3.44E-04	3.46E-07	1.89E-07	3.36E-07	1.88E-07	3.4478E-04
519906.72	4258754.54	18080.76413	0.40429	0.50035	0.43639	0.4813	3.44E-04	9.49E-07	1.03E-06	1.02E-06	9.47E-07	3.4763E-04
520663.21	4258927.58	18074.34596	0.14573	0.09228	0.14133	0.0956	3.44E-04	3.42E-07	1.89E-07	3.32E-07	1.88E-07	3.4461E-04
520681.12	4258361.99	18067.89636	0.11932	0.13005	0.11608	0.1355	3.43E-04	2.80E-07	2.67E-07	2.73E-07	2.67E-07	3.4452E-04
520695	4258656.02	18065.29259	0.12296	0.11368	0.11855	0.1172	3.43E-04	2.89E-07	2.33E-07	2.78E-07	2.31E-07	3.4442E-04
520666.84	4258918.91	18060.15705	0.14388	0.0926	0.13959	0.09588	3.43E-04	3.38E-07	1.90E-07	3.28E-07	1.89E-07	3.4434E-04
520670.47	4258910.24	18040.97771	0.14204	0.09294	0.13786	0.09617	3.43E-04	3.33E-07	1.91E-07	3.24E-07	1.89E-07	3.4396E-04
520674.1	4258901.58	18016.93882	0.1402	0.0933	0.13614	0.09648	3.42E-04	3.29E-07	1.91E-07	3.20E-07	1.90E-07	3.4350E-04
520046.71	4258330.16	18013.50923	0.2241	7.2038	0.23726	5.52231	3.42E-04	5.26E-07	1.48E-05	5.57E-07	1.09E-05	3.6913E-04
520158.96	4258122.57	18001.69824	0.15351	3.62826	0.1533	4.12425	3.42E-04	3.60E-07	7.44E-06	3.60E-07	8.12E-06	3.5846E-04
520703.69	4258806.96	18001.19786	0.12508	0.098	0.12149	0.10084	3.42E-04	2.94E-07	2.01E-07	2.85E-07	1.99E-07	3.4315E-04
520709.82	4258744.43	17996.93449	0.12083	0.10239	0.11751	0.10571	3.42E-04	2.84E-07	2.10E-07	2.76E-07	2.08E-07	3.4307E-04
520686.54	4258272.74	17990.54502	0.11354	0.13084	0.11181	0.13643	3.42E-04	2.67E-07	2.68E-07	2.62E-07	2.69E-07	3.4303E-04
520677.73	4258892.91	17988.48878	0.13838	0.09362	0.13441	0.09676	3.42E-04	3.25E-07	1.92E-07	3.16E-07	1.90E-07	3.4295E-04
519924.46	4258700.84	17976.87101	0.41223	0.6395	0.44876	0.61134	3.42E-04	9.68E-07	1.31E-06	1.05E-06	1.20E-06	3.4624E-04
520686.22	4258297.76	17969.87416	0.11497	0.12959	0.11274	0.13543	3.42E-04	2.70E-07	2.66E-07	2.65E-07	2.67E-07	3.4264E-04
520709.32	4258769.57	17957.17477	0.12179	0.10008	0.11831	0.10328	3.41E-04	2.86E-07	2.05E-07	2.78E-07	2.03E-07	3.4231E-04
520681.36	4258884.24	17955.36247	0.13657	0.09397	0.1327	0.09706	3.41E-04	3.21E-07	1.93E-07	3.12E-07	1.91E-07	3.4231E-04
520086.5	4259283.24	17953.57969	15.16056	0.15944	15.78644	0.15213	3.41E-04	3.56E-05	3.27E-07	3.71E-05	2.99E-07	4.1455E-04
520129.47	4258162.47	17948.73231	0.16296	6.19612	0.16441	7.19761	3.41E-04	3.83E-07	1.27E-05	3.86E-07	1.42E-05	3.6882E-04
519882.59	4258865.13	17944.82181	0.41184	0.33565	0.43813	0.32509	3.41E-04	9.67E-07	6.88E-07	1.03E-06	6.40E-07	3.4442E-04
520063.64	4258283.22	17942.73312	0.20113	17.72943	0.2125	9.76668	3.41E-04	4.72E-07	3.64E-05	4.99E-07	1.92E-05	3.9762E-04
520684.98	4258875.57	17918.26517	0.13477	0.09431	0.131	0.09735	3.41E-04	3.16E-07	1.93E-07	3.08E-07	1.92E-07	3.4160E-04
519947.12	4258646.05	17890.38505	0.432	0.86409	0.4772	0.81973	3.40E-04	1.01E-06	1.77E-06	1.12E-06	1.61E-06	3.4558E-04
520685.21	4258618.03	17890.24322	0.12505	0.11883	0.12035	0.12304	3.40E-04	2.94E-07	2.44E-07	2.83E-07	2.42E-07	3.4112E-04
520109.8	4258192.41	17877.88222	0.17076	10.36886	0.17441	11.80161	3.40E-04	4.01E-07	2.13E-05	4.09E-07	2.32E-05	3.8513E-04
520688.61	4258866.9	17871.31867	0.13299	0.09461	0.12929	0.0976	3.40E-04	3.12E-07	1.94E-07	3.04E-07	1.92E-07	3.4070E-04
520707.59	4258701.88	17836.46907	0.12019	0.10682	0.11665	0.10999	3.39E-04	2.82E-07	2.19E-07	2.74E-07	2.17E-07	3.4003E-04
520707.34	4258798.23	17834.99668	0.12343	0.09804	0.11987	0.10092	3.39E-04	2.90E-07	2.01E-07	2.81E-07	1.99E-07	3.3998E-04
520673.99	4258420.88	17834.33812	0.12381	0.13039	0.12017	0.13609	3.39E-04	2.91E-07	2.67E-07	2.82E-07	2.68E-07	3.4011E-04
519969.81	4258599.22	17828.75657	0.46285	1.19921	0.52534	1.11813	3.39E-04	1.09E-06	2.46E-06	1.23E-06	2.20E-06	3.4587E-04
519959.89	4258618.66	17827.56056	0.44784	1.03195	0.5018	0.97281	3.39E-04	1.05E-06	2.12E-06	1.18E-06	1.91E-06	3.4513E-04
520677.4	4258403.97	17819.45754	0.12213	0.12984	0.11863	0.13537	3.39E-04	2.87E-07	2.66E-07	2.79E-07	2.66E-07	3.3981E-04
520692.24	4258858.23	17816.50809	0.13124	0.09485	0.12759	0.09779	3.39E-04	3.08E-07	1.95E-07	3.00E-07	1.92E-07	3.3965E-04
520149.14	4258132.54	17811.78251	0.15512	4.24828	0.1552	4.87086	3.39E-04	3.64E-07	8.71E-06	9.59E-06	3.57E-07	3.5760E-04
520670.69	4258438.06	17809.35232	0.12542	0.1309	0.12159	0.13676	3.39E-04	2.94E-07	2.68E-07	2.85E-07	2.69E-07	3.3964E-04
520045.87	4259259.92	17789.34351	6.10454	0.15803	8.54294	0.15401	3.38E-04	1.43E-05	3.24E-07	2.01E-05	3.03E-07	3.7316E-04
520704.84	4258684.52	17786.05247	0.12055	0.10896	0.11671	0.11213	3.38E-04	2.83E-07	2.23E-07	2.74E-07	2.21E-07	3.3908E-04
520710.45	4258719	17785.26879	0.11977	0.10455	0.11644	0.10779	3.38E-04	2.81E-07	2.14E-07	2.73E-07	2.12E-07	3.3905E-04
520664.82	4258474.39	17784.06255	0.12836	0.13188	0.12393	0.13776	3.38E-04	3.01E-07	2.70E-07	2.91E-07	2.71E-07	3.3918E-04
520695.05	4258646.54	17778.76221	0.12261	0.11424	0.11814	0.11787	3.38E-04	2.88E-07	2.34E-07	2.77E-07	2.32E-07	3.3897E-04
520096.42	4259293.23	17763.42573	11.36135	0.15802	10.33526	0.15005	3.38E-04	2.67E-05	3.24E-07	2.43E-05	2.95E-07	3.8921E-04
519879.5	4258881.79	17755.69846	0.41219	0.31775	0.43819	0.30825	3.38E-04	9.68E-07	6.52E-07	1.03E-06	6.07E-07	3.4076E-04
520695.87	4258849.56	17750.9293	0.1295	0.09511	0.12589	0.09797	3.37E-04	3.04E-07	1.95E-07	2.96E-07	1.93E-07	3.3840E-04
520680.9	4258387.29	17749.21511	0.12042	0.12918	0.11702	0.13457	3.37E-04	2.83E-07	2.65E-07	2.75E-07	2.65E-07	3.3847E-04
519979.73	4258579.79	17736.69483	0.47589	1.41467	0.54363	1.29929	3.37E-04	1.12E-06	2.90E-06	1.28E-06	2.56E-06	3.4500E-04
519999.56	4258540.91	17727.7182	0.48745	2.04543	0.55332	1.819	3.37E-04	1.14E-06	4.20E-06	1.30E-06	3.58E-06	3.4719E-04
520685.9	4258348.68	17713.60129	0.11737	0.12854	0.11424	0.13394	3.37E-04	2.76E-07	2.68E-07	2.64E-07	2.64E-07	3.3777E-04
520712.87	4258761.09	17707.9625	0.12028	0.10006	0.11691	0.10329	3.37E-04	2.82E-07	2.05E-07	2.74E-07	2.03E-07	3.3756E-04
520027.45	4258408.01	17705.42129	0.28722	4.03022	0.30444	3.3828	3.37E-04	6.74E-07	8.27E-06	7.15E-07	6.66E-06	3.5286E-04
520668.2	4258457.4	17679.32654	0.12679	0.13109	0.12266	0.13701	3.36E-04	2.98E-07	2.69E-07	2.88E-07	2.70E-07	3.3718E-04
520699.5	4258840.9	17672.41842	0.12778	0.09536	0.12421	0.09816	3.36E-04	3.00E-07	1.96E-07	2.92E-07	1.93E-07	3.3690E-04
520028.87	4258397.44	17668.7709	0.27495	4.18292	0.29081	3.50053	3.36E-04	6.45E-07	8.58E-06	6.83E-07	6.89E-06	3.5265E-04
520690.33	4258256.83	17662.0349	0.11175	0.11999	0.11009	0.13525	3.36E-04	2.62E-07	2.66E-07	2.58E-07	2.66E-07	3.3678E-04
520689.94	4258281.66	17652.43328	0.11315	0.12893	0.11122	0.13458	3.36E-04	2.66E-07	2.64E-07	2.61E-07	2.65E-07	3.3660E-04
519989.65	4258560.35	17651.45848	0.48451	1.68792	0.55185	1.52776	3.36E-04	1.14E-06	3.46E-06	1.30E-06	3.01E-06	3.4442E-04
520022.69	4258450.19	17647.77569	0.34893	3.5502	0.37448	3.00497	3.35E-04	8.19E-07	7.28E-06	8.79E-07	5.92E-06	3.5035E-04
520713.39	4258735.9	17639.92041	0.11931	0.10226	0.11606	0.10553	3.35E-04	2.80E-07	2.10E-07	2.72E-07	2.08E-07	3.3627E-04
520711	4258789.51	17636.92227	0.12179	0.09801	0.11829	0.10096	3.35E-04	2.86E-07	2.01E-07	2.78E-07	1.99E-07	3.3621E-04
519886.25	4258825.74	17623.44082	0.3943	0.3774	0.41984	0.36489	3.35E-04	9.26E-07	7.74E-07	9.86E-07	7.18E-07	3.3839E-04
520684.48	4258370.81	17620.12075	0.1187	0.1284	0.11539	0.1337	3.35E-04	2.79E-07	2.63E-07	2.71E-07	2.63E-07	3.3600E-04
520119.65	4258172.44	17611.90221	0.16422	7.83074	0.16657	9.10763	3.35E-04	3.86E-07	1.61E-05	3.91E-07	1.79E-05	3.6954E-04
520689.64	4258306.74	17609.06478	0.1145	0.12778	0.11201	0.13353	3.35E-04	2.69E-07	2.62E-07	2.63E-07	2.63E-07	3.3577E-04
519883.15	4258842.38	17599.20413	0.39638	0.35718	0.42156	0.34554	3.35E-04	9.31E-07	7.33E-07	9.90E-07	6.80E-07	3.3786E-04
520690.88	4258219.6	17585.31389	0.10953	0.13137	0.10781	0.13614	3.34E-04	2.57E-07	2.69E-07	2.53E-07	2.68E-07	3.3531E-04
520703.13	4258832.23	17579.04295	0.12607	0.09557	0.12254	0.09832	3.34E-04	2.96E-07	1.96E-07	2.88E-07	1.94E-07	3.3512E-04
520139.32	4258142.5	17575.16661	0.1566	5.06943	0.15719	5.85904	3.34E-04	3.68E-07	1.04E-05	3.69E-07	1.15E-05	3.5674E-04
520704.89	4258675.04	17570.38647	0.12022	0.10962	0.11624	0.11281	3.34E-04	2.82E-07	2.25E-07	2.73E-07	2.22E-07	3.3498E-04
520685.26	4258608.55	17569.97017	0.12473	0.11933	0.12007	0.12363	3.34E-04	2.93E-07	2.45E-07	2.82E-07	2.43E-07	3.3504E-04
519909.53	4258737.19	17567.6603	0.39478	0.53164	0.42761	0.51047	3.34E-04	9.27E-07	1.09E-06	1.00E-06	1.00E-06	3.3796E-04
519889.27	4258808.9	17559.69366	0.39102	0.39902	0.41686	0.38567	3.34E-04	9.18E-07	8.18E-07	9.79E-07	7.59E-07	3.3725E-04
520047.25	4258319.95	17540.46536	0.21548	7.33462	0.22802	5.61451	3.33E-04	5.06E-07	1.50E-05	5.35E-07	1.11E-05	3.6055E-04
520030	4258386.98	17525.84029	0.26322	4.3102	0.27791	3.59891	3.33E-04	6.18E-07	8.84E-06	6.52E-07	7.08E-06	3.5033E-04
519937.12	4258664.6	17504.2284	0.41479	0.76352	0.45474	0.72676	3.33E-04	9.74E-07	1.57E-06	1.07E-06	1.43E-06	3.3776E-04
520086.52	4259293.24	17494.4617	15.07173	0.15614	15.59979	0.14906	3.33E-04	3.54E-05	3.20E-07	3.66E-05	2.93E-07	4.0516E-04
520691.1	4258637.05	17478.89696	0.12228	0.11474	0.11778	0.11851	3.32E-04	2.87E-07	2.35E-07	2.77E-07	2.33E-07	3.3327E-04
520692.47	4258230.3	17478.47282	0.1098	0.13019	0.10809	0.13511	3.32E-04	2.58E-07	2.67E-07	2.54E-07	2.66E-07	3.3328E-04
520706.76	4258823.56	17468.53018	0.12441	0.09576	0.1209	0.09847	3.32E-04	2.92E-07	1.96E-07	2.84E-07	1.94E-07	3.3301E-04
520099.98	4258202.38	17452.47096	0.17168	14.86159	0.17643	15.99199	3.32E-04	4.03E-07	3.05E-05	4.14E-07	3.15E-05	3.9452E-04
520051.83	4259272.06	17443.63894	7.50513	0.15542	12.08496	0.15108	3.32E-04	1.76E-05	3.19E-07	2.84E-05	2.97E-07	3.7818E-04
520036.49	4258354.35	17418.44102	0.23555	5.15313	0.24839	4.20998	3.31E-04	5.53E-07	1.06E-05	5.83E-07	8.29E-06	3.5109E-04
520714.65	4258780.78	17417.60487	0.12019	0.09795	0.11677	0.10096	3.31E-04	2.82E-07	2.01E-07	2.74E-07	1.99E-07	3.3203E-04
520716.42	4258752.61	17410.00689	0.11876	0.10007	0.11553	0.10329	3.31E-04	2.79E-07	2.05E-07	2.71E-07	2.03E-07	3.3188E-04
519892.2	4258791.85	17393.01381	0.38637	0.42216	0.41254	0.40792	3.31E-04	9.07E-07	8.66E-07	9.69E-07	8.03E-07	3.3415E-04
520054.41	4258297.01	17383.71009	0.20354	9.92769	0.21547	6.99899	3.30E-04	4.78E-07	2.04E-05	5.06E-07	1.38E-05	3.6555E-04
519900.14	4258762.77	17373.18774	0.38723	0.47281	0.41598	0.45583	3.30E-04	9.09E-07	9.70E-07	9.77E-07	8.97E-07	3.3399E-04
520063.95	4258273.1	17362.33975	0.19382	18.06496	0.20457	9.84206	3.30E-04	4.55E-07	3.70E-05	4.80E-07	1.94E-05	3.8739E-04
520714.04	4258710.4	17352.6035	0.11827	0.10441	0.11494	0.10753	3.30E-04	2.78E-07	2.14E-07	2.70E-07	2.12E-07	3.3081E-04
520711.21	4258693.23	17347.04686	0.11868	0.10659	0.11509	0.10967	3.30E-04	2.79E-07	2.19E-07	2.70E-07	2.16E-07	3.3072E-04
520710.39	4258814.89	17338.86817	0.12277	0.09588	0.11929	0.09858	3.30E-04	2.88E-07	1.97E-07	2.80E-07	1.94E-07	3.3054E-04
520159	4258112.57	17337.11544	0.14901	3.62941	0.14869	4.12012	3.30E-04	3.50E-07	7.44E-06	3.49E-07	8.11E-06	3.4580E-04
520693.71	4258265.69	17336.98739	0.11137	0.12806	0.10961	0.13347	3.30E-04	2.61E-07	2.63E-07	2.57E-07	2.63E-07	3.3059E-04
519918.02	4258709.44	17335.57702	0.39584	0.59975	0.42946	0.57453	3.30E-04	9.29E-07	1.23E-06	1.01E-06	1.13E-06	3.3382E-04
519874.04	4258918.7	17332.56187	0.41594	0.28323	0.44189	0.27603	3.29E-04	9.76E-07	5.81E-07	1.04E-06	5.43E-07	3.3260E-04
520704.94	4258665.56	17331.23255	0.1199	0.11018	0.11579	0.11345	3.29E-04	2.81E-07	2.26E-07	2.72E-07	2.23E-07	3.3044E-04
520668.18	4258483.23	17327.22142	0.12743	0.1302	0.12285	0.13591	3.29E-04	2.99E-07	2.67E-07	2.88E-07	2.68E-07	3.3048E-04
520693.33	4258290.58	17319.09193	0.11275	0.12695	0.11057	0.13262	3.29E-04	2.65E-07	2.60E-07	2.60E-07	2.61E-07	3.3025E-04
519878.81	4258856.03	17298.15331	0.39113	0.33927	0.4151	0.32855	3.29E-04	9.18E-07	6.96E-07	9.75E-07	6.47E-07	3.3204E-04
520689.38	4258357.8	17279.47879	0.11678	0.12687	0.11353	0.13211	3.29E-04	2.74E-07	2.60E-07	2.67E-07	2.60E-07	3.2976E-04
520129.5	4258152.47	17291.22682	0.15791	6.20159	0.15923	7.20094	3.29E-04	3.71E-07	1.27E-05	3.74E-07	1.42E-05	3.5631E-04
520030.94	4258376.61	17288.1181	0.25209	4.41898	0.26579	3.68365	3.29E-04	5.92E-07	9.06E-06	6.24E-07	7.25E-06	3.4615E-04
520680.82	4258412.93	17285.09424	0.1214	0.12805	0.11794	0.13354	3.29E-04	2.85E-07	2.63E-07	2.77E-07	2.63E-07	3.2965E-04
520677.44	4258429.92	17269.2358	0.123	0.1286	0.11928	0.13426	3.28E-04	2.89E-07	2.64E-07	2.80E-07	2.64E-07	3.2935E-04
520716.97	4258727.36	17263.68346	0.11781	0.10216	0.11462	0.10534	3.28E-04	2.77E-07	2.10E-07	2.69E-07	2.07E-07	3.2911E-04
520684.29	4258396.18	17259.49001	0.11976	0.12742	0.11629	0.13276	3.28E-04	2.81E-07	2.61E-07	2.73E-07	2.61E-07	3.2915E-04
520685.32	4258599.07	17257.36996	0.12441	0.1198	0.11981	0.12417	3.28E-04	2.92E-07	2.46E-07	2.81E-07	2.44E-07	3.2909E-04
520693.06	4258315.73	17251.83448	0.114	0.12632	0.11129	0.1319	3.28E-04	2.68E-07	2.59E-07	2.61E-07	2.60E-07	3.2897E-04
520109.83	4258182.41	17225.52692	10.18729	0.16837	0.16864	11.79446	3.27E-04	3.88E-07	2.13E-05	3.96E-07	2.32E-05	3.7273E-04
520714.02	4258806.22	17183.41816	0.12115	0.09593	0.11771	0.09865	3.27E-04	2.84E-07	1.97E-07	2.76E-07	1.94E-07	3.2758E-04
519875.75	4258872.76	17180.76239	0.39225	0.32153	0.41601	0.3117	3.27E-04	9.21E-07	6.59E-07	9.77E-07	6.14E-07	3.2975E-04
520718.3	4258772.05	17176.27324	0.11864	0.09786	0.11531	0.10093	3.26E-04	2.79E-07	2.01E-07	2.71E-07	1.99E-07	3.2744E-04
520671.53	4258466.16	17174.11015	0.1259	0.12942	0.12163	0.13521	3.26E-04	2.96E-07	2.65E-07	2.86E-07	2.66E-07	3.2756E-04
520687.84	4258379.63	17173.25566	0.11809	0.12672	0.11471	0.13193	3.26E-04	2.77E-07	2.60E-07	2.69E-07	2.60E-07	3.2750E-04
520695.16	4258627.57	17170.58791	0.1152	0.11376	0.11745	0.11911	3.26E-04	2.86E-07	2.36E-07	2.76E-07	2.34E-07	3.2741E-04
520092.31	4259304.47	17150.56632	12.72305	0.15367	11.94546	0.14631	3.26E-04	2.99E-05	3.15E-07	2.80E-05	2.88E-07	3.8452E-04
520149.18	4258122.54	17150.441	0.15048	4.25158	0.1505	4.86062	3.26E-04	3.53E-07	8.72E-06	3.53E-07	9.57E-06	3.4499E-04
520009.44	4258511.78	17145.172	0.45302	2.55742	0.50431	2.22523	3.26E-04	1.06E-06	5.25E-06	1.18E-06	4.38E-06	3.3777E-04
520041.93	4259272.07	17133.49297	5.38645	0.15319	7.24762	0.14956	3.26E-04	1.26E-05	3.14E-07	1.70E-05	2.94E-07	3.5595E-04
519872.52	4258908.12	17128.07961	0.40401	0.29013	0.4286	0.28229	3.26E-04	9.48E-07	5.95E-07	1.01E-06	5.56E-07	3.2868E-04
519895.03	4258774.56	17108.32386	0.38019	0.44694	0.40671	0.43166	3.25E-04	8.93E-07	9.17E-07	9.55E-07	8.50E-07	3.2881E-04
520692.89	4258341.17	17100.934	0.1151	0.12598	0.11202	0.13125	3.25E-04	2.70E-07	2.58E-07	2.63E-07	2.58E-07	3.2611E-04
520719.97	4258744.13	17091.6466	0.11726	0.10002	0.11416	0.1032	3.25E-04	2.75E-07	2.05E-07	2.68E-07	2

520677.64	4258456.32	16710.68648	0.12366	0.12739	0.11958	0.13308	3.18E-04	2.90E-07	2.61E-07	2.81E-07	2.62E-07	3.1873E-04
520092.32	4259314.47	16706.97309	12.82561	0.15053	11.83066	0.1434	3.18E-04	3.01E-05	3.09E-07	2.78E-05	2.82E-07	3.7605E-04
520700.46	4258283.43	16702.51377	0.11059	0.12442	0.10846	0.12992	3.17E-04	2.60E-07	2.55E-07	2.55E-07	2.56E-07	3.1851E-04
520701.12	4258259.29	16699.33494	0.10925	0.12521	0.10744	0.13046	3.17E-04	2.56E-07	2.57E-07	2.52E-07	2.57E-07	3.1845E-04
519885.54	4258799.92	16694.82215	0.36958	0.40131	0.39347	0.38831	3.17E-04	8.68E-07	8.23E-07	9.24E-07	7.64E-07	3.2072E-04
520685.42	4258580.11	16680.68189	0.12382	0.12082	0.11928	0.12522	3.17E-04	2.91E-07	2.48E-07	2.80E-07	2.46E-07	3.1813E-04
520129.54	4258142.47	16671.09348	0.15314	6.2048	0.15432	7.20189	3.17E-04	3.60E-07	1.27E-05	3.62E-07	1.42E-05	3.4455E-04
519959.85	4258608.96	16664.70385	0.42975	1.05064	0.48197	0.98977	3.17E-04	1.01E-06	2.15E-06	1.13E-06	1.95E-06	3.2301E-04
520700.13	4258308.43	16646.94528	0.11183	0.12367	0.10917	0.12913	3.16E-04	2.63E-07	2.54E-07	2.56E-07	2.54E-07	3.1745E-04
520714.89	4258675.09	16636.29603	0.1169	0.10689	0.11313	0.10994	3.16E-04	2.74E-07	2.19E-07	2.66E-07	2.16E-07	3.1720E-04
520725.61	4258754.6	16635.16912	0.11564	0.09777	0.11257	0.10087	3.16E-04	2.71E-07	2.01E-07	2.64E-07	1.99E-07	3.1714E-04
519937.12	4258655.32	16628.65181	0.40029	0.77694	0.43836	0.7405	3.16E-04	9.40E-07	1.59E-06	1.03E-06	1.46E-06	3.2110E-04
519875.04	4258846.93	16625.47731	0.37132	0.34244	0.39345	0.33171	3.16E-04	8.72E-07	7.02E-07	9.24E-07	6.53E-07	3.1917E-04
520109.86	4258172.41	16614.49276	0.16002	10.40377	0.1632	11.81847	3.16E-04	3.76E-07	2.13E-05	3.83E-07	2.33E-05	3.6117E-04
520724.91	4258780.21	16596.98357	0.11653	0.09578	0.11329	0.09869	3.15E-04	2.74E-07	1.96E-07	2.66E-07	1.94E-07	3.1641E-04
520051.86	4259292.06	16595.42506	7.30459	0.14925	12.41777	0.14512	3.15E-04	1.71E-05	3.06E-07	2.92E-05	2.86E-07	3.6234E-04
519872.01	4258863.73	16580.74354	0.3732	0.32483	0.39496	0.31488	3.15E-04	8.76E-07	6.66E-07	9.27E-07	6.20E-07	3.1826E-04
519969.77	4258580.53	16571.40155	0.4426	1.2229	0.50181	1.13712	3.15E-04	1.04E-06	2.51E-06	1.18E-06	2.24E-06	3.2196E-04
519999.52	4258531.21	16559.24122	0.45924	2.07456	0.51681	1.84421	3.15E-04	1.08E-06	4.25E-06	1.21E-06	3.63E-06	3.2494E-04
520695.26	4258608.61	16555.11295	0.12135	0.1161	0.11691	0.12023	3.15E-04	2.85E-07	2.38E-07	2.74E-07	2.37E-07	3.1572E-04
519920.79	4258692	16552.30571	0.38406	0.63573	0.41656	0.60863	3.15E-04	9.02E-07	1.30E-06	9.78E-07	1.20E-06	3.1901E-04
520149.21	4258112.54	16537.47067	0.14611	4.25292	0.14604	4.85883	3.14E-04	3.43E-07	8.72E-06	3.43E-07	9.56E-06	3.3332E-04
520705.1	4258637.11	16508.32819	0.11894	0.11176	0.11467	0.11538	3.14E-04	2.79E-07	2.29E-07	2.69E-07	2.27E-07	3.1480E-04
519868.5	4258886.57	16496.72798	0.37675	0.30316	0.39842	0.29428	3.14E-04	8.84E-07	6.22E-07	9.35E-07	5.79E-07	3.1659E-04
520724.11	4258710.29	16463.22722	0.11493	0.10186	0.11176	0.10484	3.13E-04	2.70E-07	2.09E-07	2.62E-07	2.06E-07	3.1388E-04
519888.44	4258782.79	16450.99941	0.3644	0.42394	0.38846	0.41013	3.13E-04	8.55E-07	8.69E-07	9.12E-07	8.07E-07	3.1615E-04
520721.24	4258693.22	16445.12209	0.11537	0.10399	0.11197	0.10692	3.13E-04	2.71E-07	2.13E-07	2.63E-07	2.10E-07	3.1355E-04
519979.69	4258570.09	16444.64425	0.45294	1.43973	0.51339	1.32095	3.13E-04	1.06E-06	2.95E-06	1.21E-06	2.60E-06	3.2040E-04
520082.42	4259314.48	16444.11344	15.90094	0.14861	18.91807	0.14235	3.13E-04	3.73E-05	3.05E-07	4.44E-05	2.80E-07	3.9490E-04
520696.33	4258376.05	16428.13875	0.11554	0.12356	0.11217	0.12858	3.12E-04	2.71E-07	2.53E-07	2.63E-07	2.53E-07	3.1331E-04
520685.48	4258570.63	16423.66438	0.12356	0.12118	0.11899	0.12561	3.12E-04	2.90E-07	2.49E-07	2.79E-07	2.47E-07	3.1325E-04
520009.4	4258502.08	16422.74489	0.42546	2.58246	0.4689	2.24849	3.12E-04	9.99E-07	5.30E-06	1.10E-06	4.43E-06	3.2399E-04
520704.83	4258243.18	16418.40152	0.10758	0.1243	0.10579	0.12931	3.12E-04	2.53E-07	2.55E-07	2.48E-07	2.55E-07	3.1309E-04
520714.94	4258665.61	16405.32534	0.1166	0.10746	0.11272	0.11058	3.12E-04	2.74E-07	2.20E-07	2.65E-07	2.18E-07	3.1281E-04
520727.08	4258727.16	16395.32902	0.11441	0.09979	0.11142	0.10283	3.12E-04	2.69E-07	2.05E-07	2.62E-07	2.02E-07	3.1258E-04
519989.61	4258550.65	16394.64822	0.45857	1.71424	0.51831	1.55112	3.12E-04	1.08E-06	3.52E-06	1.22E-06	3.05E-06	3.2050E-04
520055.27	4258276.69	16388.0124	0.18927	10.27597	0.20006	7.19542	3.12E-04	4.44E-07	2.11E-05	4.70E-07	1.42E-05	3.4766E-04
520703.84	4258292.29	16385.68651	0.11017	0.12269	0.1078	0.12815	3.11E-04	2.59E-07	2.52E-07	2.53E-07	2.52E-07	3.1248E-04
520704.6	4258268.42	16385.0199	0.10885	0.12339	0.10691	0.12871	3.11E-04	2.56E-07	2.53E-07	2.53E-07	2.53E-07	3.1246E-04
519865.27	4258915.14	16378.19053	0.38344	0.2793	0.4056	0.27184	3.11E-04	9.00E-07	5.73E-07	9.52E-07	5.35E-07	3.1428E-04
520119.72	4258152.44	16376.82808	0.15423	7.84537	0.15623	9.12063	3.11E-04	3.62E-07	1.61E-05	3.67E-07	1.80E-05	3.4607E-04
520038.72	4258323.47	16364.16915	0.20958	5.48863	0.22093	4.45692	3.11E-04	4.92E-07	1.13E-05	5.19E-07	8.77E-06	3.3209E-04
520728.54	4258771.55	16353.09758	0.11505	0.09566	0.11191	0.09863	3.11E-04	2.70E-07	1.96E-07	2.63E-07	1.94E-07	3.1177E-04
519905.8	4258728.19	16352.48618	0.36972	0.53141	0.3993	0.51071	3.11E-04	8.68E-07	1.09E-06	9.37E-07	1.01E-06	3.1473E-04
520139.39	4258122.5	16331.21059	0.14742	5.07602	0.14784	5.84708	3.10E-04	3.46E-07	1.04E-05	3.47E-07	1.15E-05	3.3304E-04
519896.47	4258753.92	16325.19281	0.36457	0.47363	0.39049	0.45716	3.10E-04	8.56E-07	9.71E-07	9.17E-07	9.00E-07	3.1396E-04
520729.26	4258745.88	16324.87562	0.11418	0.09772	0.11123	0.10078	3.10E-04	2.68E-07	2.00E-07	2.61E-07	1.98E-07	3.1123E-04
520699.79	4258359.27	16318.79892	0.11395	0.12282	0.11067	0.12777	3.10E-04	2.68E-07	2.50E-07	2.52E-07	2.52E-07	3.1122E-04
520041.96	4259292.07	16314.972	5.32238	0.14715	7.38698	0.14369	3.10E-04	1.25E-05	3.02E-07	1.73E-05	2.83E-07	3.4054E-04
520703.53	4258317.35	16314.50015	0.11132	0.12227	0.10847	0.12756	3.10E-04	2.61E-07	2.51E-07	2.55E-07	2.51E-07	3.1113E-04
519927.12	4258673.87	16292.10239	0.38505	0.69152	0.41874	0.66105	3.10E-04	9.04E-07	1.42E-06	9.83E-07	1.30E-06	3.1429E-04
520678.21	4258483.68	16291.78551	0.12408	0.12636	0.11958	0.13182	3.10E-04	2.91E-07	2.59E-07	2.81E-07	2.59E-07	3.1077E-04
520064.49	4258252.91	16282.52963	0.18054	18.60954	0.19014	10.03676	3.10E-04	4.24E-07	3.82E-05	4.46E-07	1.98E-05	3.6830E-04
520045.53	4258300.68	16280.5128	0.19815	6.84725	0.20938	5.33975	3.09E-04	4.65E-07	1.40E-05	4.92E-07	1.05E-05	3.3497E-04
520092.34	4259324.47	16276.83213	12.95923	0.14748	11.70976	0.14057	3.09E-04	3.04E-05	3.02E-07	2.75E-05	2.77E-07	3.6789E-04
520691.06	4258413.95	16269.12062	0.11835	0.12401	0.1148	0.12929	3.09E-04	2.78E-07	2.54E-07	2.70E-07	2.55E-07	3.1030E-04
520694.56	4258397.28	16260.7368	0.1168	0.12339	0.11333	0.1285	3.09E-04	2.74E-07	2.53E-07	2.66E-07	2.53E-07	3.1013E-04
520695.32	4258599.13	16257.05741	0.12105	0.11667	0.11667	0.12076	3.09E-04	2.84E-07	2.39E-07	2.74E-07	2.38E-07	3.1005E-04
520687.64	4258430.85	16241.9711	0.11986	0.12459	0.11617	0.13003	3.09E-04	2.81E-07	2.56E-07	2.73E-07	2.56E-07	3.0980E-04
520100.05	4258182.38	16221.96072	0.16072	14.92564	0.16498	15.50809	3.08E-04	3.77E-07	3.06E-05	3.87E-07	3.05E-05	3.7025E-04
520681.11	4258465.44	16218.48367	0.12276	0.12574	0.11855	0.13131	3.08E-04	2.88E-07	2.58E-07	2.78E-07	2.58E-07	3.0937E-04
520705.16	4258627.63	16213.19634	0.11865	0.11219	0.11438	0.11595	3.08E-04	2.79E-07	2.30E-07	2.69E-07	2.28E-07	3.0919E-04
520685.53	4258561.14	16193.83258	0.1233	0.12158	0.11869	0.12602	3.08E-04	2.89E-07	2.49E-07	2.79E-07	2.48E-07	3.0888E-04
519866.94	4258875.98	16178.80738	0.36493	0.30971	0.38546	0.30049	3.08E-04	8.57E-07	6.35E-07	9.05E-07	5.92E-07	3.1052E-04
519875.82	4258824.69	16161.58274	0.35726	0.36243	0.37853	0.35122	3.07E-04	8.39E-07	7.43E-07	8.89E-07	6.91E-07	3.1036E-04
520703.32	4258342.69	16160.78692	0.11236	0.12194	0.1092	0.12692	3.07E-04	2.64E-07	2.50E-07	2.56E-07	2.50E-07	3.0821E-04
520715	4258656.13	16154.67269	0.1163	0.10799	0.11234	0.11121	3.07E-04	2.73E-07	2.21E-07	2.64E-07	2.19E-07	3.0805E-04
519863.68	4258904.54	16141.51843	0.37215	0.28558	0.39307	0.27763	3.07E-04	8.74E-07	5.86E-07	9.23E-07	5.47E-07	3.0975E-04
520052.7	4259304.53	16116.6157	7.50665	0.1457	13.47389	0.14166	3.06E-04	1.76E-05	2.99E-07	3.16E-05	2.79E-07	3.5618E-04
520708.29	4258252.24	16116.42076	0.1072	0.12258	0.10537	0.12767	3.06E-04	2.52E-07	2.51E-07	2.47E-07	2.51E-07	3.0735E-04
520732.17	4258762.88	16105.73713	0.11363	0.09558	0.1106	0.09857	3.06E-04	2.67E-07	1.96E-07	2.60E-07	1.94E-07	3.0706E-04
520129.57	4258132.47	16092.25774	0.14862	6.20763	0.14967	7.21008	3.06E-04	3.49E-07	1.27E-05	3.51E-07	1.42E-05	3.3351E-04
519891.24	4258765.42	16086.67476	0.35767	0.4483	0.38214	0.43332	3.06E-04	8.40E-07	9.19E-07	8.97E-07	8.53E-07	3.0929E-04
520708.07	4258277.54	16076.30943	0.10845	0.12162	0.10631	0.12697	3.06E-04	2.55E-07	2.49E-07	2.50E-07	2.50E-07	3.0659E-04
520707.21	4258301.16	16073.37917	0.10972	0.12112	0.10712	0.12648	3.06E-04	2.58E-07	2.48E-07	2.51E-07	2.49E-07	3.0653E-04
520109.9	4258162.41	16042.15075	0.15511	10.41422	0.15806	11.86834	3.05E-04	3.64E-07	2.14E-05	3.71E-07	2.34E-05	3.5039E-04
520727.69	4258701.76	16041.50044	0.11354	0.10165	0.11034	0.10454	3.05E-04	2.67E-07	2.08E-07	2.59E-07	2.06E-07	3.0586E-04
519878.86	4258807.91	16037.97881	0.35385	0.3821	0.37562	0.37021	3.05E-04	8.31E-07	7.84E-07	8.82E-07	7.29E-07	3.0808E-04
520082.44	4259324.48	16034.1997	15.91924	0.14565	18.63394	0.13957	3.05E-04	3.74E-05	2.99E-07	4.37E-05	2.75E-07	3.8647E-04
519914.39	4258700.67	16033.29726	0.37022	0.59668	0.39979	0.5726	3.05E-04	8.69E-07	1.22E-06	9.39E-07	1.13E-06	3.0892E-04
520730.63	4258718.68	16023.80271	0.11304	0.09965	0.11006	0.10258	3.05E-04	2.65E-07	2.04E-07	2.58E-07	2.02E-07	3.0551E-04
520027.61	4258358.01	16006.97461	0.2282	4.05937	0.23976	3.43629	3.04E-04	5.36E-07	8.33E-06	5.63E-07	6.76E-06	3.2045E-04
520732.92	4258737.15	15994.72809	0.11277	0.09761	0.10988	0.10061	3.04E-04	2.65E-07	2.00E-07	2.58E-07	1.98E-07	3.0495E-04
520685.58	4258551.66	15993.18904	0.12305	0.12188	0.11839	0.12637	3.04E-04	2.89E-07	2.50E-07	2.78E-07	2.49E-07	3.0507E-04
520699.8	4258385.18	15991.63159	0.11491	0.12188	0.11149	0.12684	3.04E-04	2.70E-07	2.50E-07	2.62E-07	2.50E-07	3.0500E-04
520000.18	4259401.03	15986.17555	0.26529	3.39902	0.2803	2.92213	3.04E-04	6.23E-07	6.97E-06	6.58E-07	5.75E-06	3.1787E-04
520039.28	4258313.25	15982.96698	0.20192	5.5738	0.21284	4.52268	3.04E-04	4.74E-07	1.14E-05	5.00E-07	8.90E-06	3.2512E-04
520680.86	4258510.71	15977.06868	0.12373	0.12466	0.11898	0.1297	3.04E-04	2.90E-07	2.56E-07	2.79E-07	2.55E-07	3.0478E-04
520724.83	4258684.63	15976.98525	0.11397	0.10371	0.11053	0.10659	3.04E-04	2.68E-07	2.13E-07	2.59E-07	2.10E-07	3.0464E-04
520695.37	4258589.65	15974.32189	0.12077	0.11705	0.11643	0.12127	3.04E-04	2.84E-07	2.40E-07	2.73E-07	2.39E-07	3.0468E-04
520021.48	4258390.5	15959.73454	0.25451	3.50495	0.26837	3.00751	3.03E-04	5.98E-07	7.19E-06	6.30E-07	5.92E-06	3.1770E-04
519868.26	4258954.71	15954.96669	0.35492	0.32767	0.37502	0.31773	3.03E-04	8.33E-07	6.72E-07	8.80E-07	6.25E-07	3.0629E-04
520012.66	4258474.56	15943.87679	0.3708	2.81823	0.40094	2.43911	3.03E-04	8.71E-07	5.78E-06	9.41E-07	4.80E-06	3.1546E-04
519871.27	4258837.83	15933.10801	0.35247	0.34501	0.37293	0.33446	3.03E-04	8.27E-07	7.08E-07	8.76E-07	6.58E-07	3.0593E-04
520681.2	4258501.58	15928.68257	0.12344	0.12473	0.11876	0.12989	3.03E-04	2.90E-07	2.56E-07	2.79E-07	2.56E-07	3.0386E-04
520009.36	4258492.38	15920.10755	0.40069	2.60367	0.43773	2.2687	3.03E-04	9.41E-07	5.34E-06	1.03E-06	4.47E-06	3.1439E-04
520703.23	4258368.33	15919.55494	0.11336	0.12124	0.11002	0.12609	3.03E-04	2.66E-07	2.49E-07	2.58E-07	2.48E-07	3.0362E-04
520705.21	4258618.15	15917.20986	0.11837	0.1126	0.11412	0.11648	3.03E-04	2.78E-07	2.31E-07	2.68E-07	2.29E-07	3.0356E-04
520681.54	4258492.44	15916.95774	0.12316	0.12493	0.1186	0.13019	3.03E-04	2.89E-07	2.56E-07	2.78E-07	2.56E-07	3.0363E-04
520055.63	4258266.55	15908.04325	0.18274	10.42051	0.19302	7.27358	3.02E-04	4.29E-07	2.14E-05	4.53E-07	1.43E-05	3.3895E-04
520015.77	4258442.74	15899.95718	0.31785	3.05378	0.33934	2.63912	3.02E-04	7.46E-07	6.26E-06	7.97E-07	5.20E-06	3.1523E-04
520715.05	4258646.65	15890.04704	0.11601	0.10847	0.112	0.11181	3.02E-04	2.72E-07	2.22E-07	2.63E-07	2.20E-07	3.0302E-04
520092.36	4259334.47	15870.98586	12.9653	0.14457	11.59682	0.13786	3.02E-04	3.04E-05	2.97E-07	2.72E-05	2.71E-07	3.5991E-04
520046.09	4258290.46	15866.78021	0.19123	6.96703	0.20198	5.43134	3.02E-04	4.49E-07	1.43E-05	4.74E-07	1.07E-05	3.2750E-04
519861.99	4258893.9	15860.51045	0.36058	0.29172	0.38032	0.28337	3.01E-04	8.47E-07	5.98E-07	8.93E-07	5.58E-07	3.0438E-04
520022.54	4258380.08	15856.19319	0.24427	3.59457	0.25711	3.08006	3.01E-04	5.73E-07	7.37E-06	6.04E-07	6.06E-06	3.1601E-04
520042.8	4259304.55	15852.07143	5.44814	0.14368	7.74943	0.14029	3.01E-04	1.28E-05	2.95E-07	1.82E-05	2.76E-07	3.3287E-04
520712.03	4258236.19	15848.33141	0.10558	0.12173	0.10374	0.12656	3.01E-04	2.48E-07	2.50E-07	2.44E-07	2.49E-07	3.0224E-04
520735.8	4258754.21	15832.49589	0.11224	0.09551	0.10932	0.09849	3.01E-04	2.64E-07	1.96E-07	2.57E-07	1.94E-07	3.0186E-04
519881.82	4258790.94	15825.93432	0.34941	0.40296	0.37145	0.39036	3.01E-04	8.20E-07	8.26E-07	8.72E-07	7.68E-07	3.0411E-04
520685.64	4258542.18	15823.70812	0.12281	0.12219	0.11812	0.12674	3.01E-04	2.88E-07	2.51E-07	2.77E-07	2.49E-07	3.0185E-04
520711.74	4258261.3	15816.31654	0.10683	0.12077	0.10488	0.12595	3.01E-04	2.51E-07	2.48E-07	2.46E-07	2.48E-07	3.0171E-04
520119.75	4258142.44	15816.31654	0.14965	7.84944	0.15148	9.15061	3.01E-04	3.51E-07	1.61E-05	3.56E-07	1.80E-05	3.3546E-04
519899.32	4258736.69	15799.36067	0.35593	0.50149	0.38285	0.483	3.00E-04	8.36E-07	1.03E-06	8.99E-07	9.51E-07	3.0403E-04
520697.92	4258406.1	15797.72005	0.11611	0.12178	0.11263	0.12686	3.00E-04	2.73E-07	2.50E-07	2.64E-07	2.50E-07	3.0132E-04
520028.6	4258347.62	15788.40846	0.21963	4.15991	0.23065	3.51465	3.00E-04	5.16E-07	8.53E-06	5.41E-07	6.92E-06	3.1662E-04
520694.44	4258422.84	15780.54074	0.11761	0.12237	0.11401	0.12762	3.00E-04	2.76E-07	2.51E-07	2.68E-07	2.51E-07	3.0101E-04
520724.89	4258675.15	15772.31763	0.1137	0.10426	0.11013	0.10718	3.00E-04	2.67E-07	2.14E-07	2.59E-07	2.11E-07	3.0075E-04
520684.58	4258474.57	15769.82912	0.12183	0.12422	0.11753	0.12963	3.00E-04	2.86E-07	2.55E-07	2.76E-07	2.55E-07	3.0083E-04
520711.54	4258286.67	15769.63206	0.10801	0.12	0.10567	0.1253	3.00E-04	2.54E-07	2.46E-07	2.48E-07	2.47E-07	3.0075E-04
520139.42	4258112.5	15767.30283	0.1432	5.07727	0.14353	5.84917	3.00E-04	3.36E-07	1.04E-05	3.37E-07	1.15E-05	3.2231E-04
519937.12	4258646.05	15766.53398	0.38661	0.78932	0.42324	0.75345	3.00E-04	9.08E-07	1.62E-06	9.94E-07	1.48E-06	3.0470E-04
520710.59	4258310.02	15762.68806	0.10925	0.11969	0.10644	0.12489	3.00E-04	2.56E-07	2.45E-07	2.50E-07	2.46E-07	3.0062E-04
520691.05	4258439.81	15743.21699	0.11906	0.12296	0.11528	0.12836	2.99E-04	2.80E-07	2.52E-07	2.71E-07	2.53E-07	3.0031E-04
520052.72	4259314.53	15729.71568	7.49717	0.14282	13.7302	0.1389	2.99E-04	1.76E-05	2.93E-07	3.22E-05	2.73E-07	3.4939E-04
520687.76	4258457.04	15725.34115	0.12047	0.12357	0.11644	0.12903	2.99E-04	2.83E-07	2.53E-07	2.73E-07	2.54E-07	2.9997E-04
520695.42	4258580.16	15708.02879	0.12049	0.11758	0.11618	0.12179	2.99E-04	2.83E-07	2.41E-07	2.73E-07	2.40E-07	2.9962E-04
520685.69	4258532.7	15688.62408	0.12259	0.12249	0.11788	0.12713	2.98E-04	2.88E-07	2.51E-07	2.77E-07	2.50E-07	2.9928E-04
520100.08	4258172.38	15675.462	0.15576	14.96626	0.15973	15.6528	2.98E-04	3.66E-07	3.07E-05	3.75E-07	3.08E-05	3.6021E-04
519908.44	4258710.45	15673.58459	0.35967	0.5619	0.38766	0.53997	2.98E-04	8.44E-07	1.15E-06	9.10E-07	1.06E-06	3.0190E-04
520063.45	4258243.35	15667.68562	0.17396	16.89893	0.18306	9.64845	2.98E-04	4.08E-07	3.47E-05	4.30E-07	1.90E-05	3.5230E-04
520736.57	4258728.43	15648.81295	0.11137	0.09755	0.10856	0.10045	2.97E-04	2.61E-07	2.00E-07	2.55E-07	1.98E-07	2.9837E-04
520082.46	4259334.48	15642.35225	15.82203	0.1428	18.37836	0.1369	2.97E-04	3.71E-05	2.93E-07	4.31E-05	2.69E-07	3.7819E-04
520734.18	4258710.19	15638.52723	0.11169	0.09952	0.10872	0.10234	2.97E-04	2.62E-07	2.04E-07	2.55E-07	2.01E-07	2.9818E-04
519999.48	4258521.52	15627.62468	0.43308	2.10159	0.4833	1.86737	2.97E-04	1.02E-06	4.31E-06	1.13E-06	3.68E-06	3.0719E-04
520705.26	4258608.67	15624.9238	0.1181	0.11301	0.11389	0.11698	2.97E-04	2.77E-07	2.32E-07	2.67E-07	2.30E-07	2.9801E-04
519946.89	4258618.7	15622.58145	0.40001	0.93111	0.44393	0.88381	2.97E-04	9.39E-07	1.91E-06	1.04E-06	1.74E-06	3.0259E-04
520715.1	4258637.17	15614.47807	0.11574	0.10887	0.11169	0.11235	2.97E-04	2.72E-07	2.23E-07	2.62E-07	2.21E-07	2.9778E-04
520731.26	4258693.22	15610.11702	0.11218	0.10147	0.10896	0.10427	2.97E-04	2.63E-07	2.08E-07	2.56E-07	2.05E-07	2.9765E-04
520685.75	4258523.22	15586.73664	0.12238	0.12268	0.11767	0.12744	2.96E-04	2.87E-07	2.52E-07	2.76E-07	2.51E-07	2.9734E-04
520715.45	4258245.19	15562.19976	0.10521	0.1201	0.10336	0.12501	2.96E-04	2.47E-07	2.46E-07	2.43E-07	2.46E-07	2.9679E-04
519959.81	4258599.26	15555.50399	0.41254	1.06971	0.46281	1.00599	2.96E-04	9.69E-07	2.19E-06	1.09E-06	1.98E-06	3.0191E-04
520724.94	4258665.67	15548.99997	0.11343	0.10481	0.10976	0.1078	2.96E-04	2.66E-07	2.15E-07	2.58E-07	2.12E-07	2.9651E-04
520129.6	4258122.47	15546.10156	0.14433	6.2087	0.14526	7.22412	2.96E-04	3.39E-07	1.27E-05	3.41E-07	1.42E-05	3.2314E-04
520703.28	4258394.31	15544.68814	0.11424	0.12024	0.11081	0.12516	2.95E-04	2.68E-07	2.47E-07	2.60E-07	2.46E-07	2.9650E-04
520739.43	4258745.54	15535.96152	0.11087	0.09545	0.10806	0.09839	2.95E-04	2.60E-07	1.96E-07	2.54E-07	1.94E-07	2.9621E-04
520028.45	4258337.28	15532.31925	0.21151	4.24793	0.22205	3.58367	2.95E-04	4.97E-07	8.71E-06	5.21E-07	7.05E-06	3.1203E-04
520715.19	4258270.36	15526.97125	0.10644	0.11905	0.10432	0.12427	2.95E-04	2.50E-07	2.44E-07

519902.06	4258719.18	15174.16914	0.34655	0.52989	0.37302	0.50981	2.88E-04	8.14E-07	1.09E-06	8.76E-07	1.00E-06	2.9221E-04
520734.83	4258684.69	15170.27029	0.11085	0.10122	0.1076	0.10398	2.88E-04	2.60E-07	2.08E-07	2.53E-07	2.05E-07	2.8928E-04
520718.49	4258304.92	15166.41201	0.1071	0.11689	0.10431	0.12197	2.88E-04	2.51E-07	2.40E-07	2.45E-07	2.40E-07	2.8926E-04
520100.11	4258162.38	15160.16116	0.15106	14.99827	0.15476	15.85769	2.88E-04	3.55E-07	3.08E-05	3.63E-07	3.12E-05	5.5086E-04
520042.84	4259324.55	15115.00865	5.45596	0.13815	7.91258	0.13494	2.87E-04	1.28E-05	2.83E-07	1.86E-05	2.66E-07	3.1924E-04
520706.75	4258403.43	15097.23054	0.11356	0.11861	0.11011	0.12351	2.87E-04	2.67E-07	2.43E-07	2.59E-07	2.43E-07	2.8798E-04
520092.8	4259355.29	15086.3754	12.69207	0.13889	11.20425	0.13255	2.87E-04	2.98E-05	2.85E-07	2.63E-05	2.61E-07	3.4341E-04
519887.45	4258756.28	15078.11	0.33667	0.44876	0.35897	0.43414	2.87E-04	7.90E-07	9.20E-07	8.43E-07	8.55E-07	2.9002E-04
520705.37	4258589.7	15072.39623	0.11757	0.11392	0.11344	0.11797	2.86E-04	2.76E-07	2.34E-07	2.66E-07	2.32E-07	2.8751E-04
520695.58	4258551.72	15065.17332	0.1198	0.11858	0.11535	0.12287	2.86E-04	2.81E-07	2.43E-07	2.71E-07	2.42E-07	2.8740E-04
520690.85	4258511.08	15053.71739	0.12051	0.12123	0.11593	0.12604	2.86E-04	2.83E-07	2.49E-07	2.72E-07	2.48E-07	2.8720E-04
520725.05	4258646.71	15053.62612	0.1129	0.10574	0.1091	0.10896	2.86E-04	2.65E-07	2.17E-07	2.56E-07	2.14E-07	2.8709E-04
520715.21	4258618.2	15048.94509	0.11521	0.10968	0.11119	0.11341	2.86E-04	2.70E-07	2.25E-07	2.61E-07	2.23E-07	2.8703E-04
520047.03	4258270.1	15041.23875	0.17844	7.17285	0.1884	5.56741	2.86E-04	4.19E-07	1.47E-05	4.42E-07	1.10E-05	3.1244E-04
520129.63	4258112.47	15024.82122	0.14024	6.21097	0.14108	7.22608	2.86E-04	3.29E-07	1.27E-05	3.31E-07	1.42E-05	3.1322E-04
520691.19	4258501.95	15011.55438	0.12024	0.12129	0.11572	0.12621	2.85E-04	2.82E-07	2.49E-07	2.72E-07	2.48E-07	2.8639E-04
520722.31	4258263.2	15006.49958	0.10448	0.11672	0.10239	0.12178	2.85E-04	2.45E-07	2.39E-07	2.40E-07	2.40E-07	2.8621E-04
520691.53	4258492.82	15002.58732	0.11996	0.12144	0.11554	0.12646	2.85E-04	2.82E-07	2.49E-07	2.71E-07	2.49E-07	2.8622E-04
520052.75	4259134.53	14994.65095	7.5258	0.13735	14.22908	0.13364	2.85E-04	1.77E-05	2.82E-07	3.34E-05	2.63E-07	3.3664E-04
520109.96	4258142.41	14990.11578	0.14604	10.43302	0.14858	11.98875	2.85E-04	3.43E-07	2.14E-05	3.49E-07	2.36E-05	3.3062E-04
520734.89	4258675.21	14971.57139	0.11061	0.10173	0.10724	0.10453	2.85E-04	2.60E-07	2.09E-07	2.52E-07	2.06E-07	2.8551E-04
520722.09	4259288.49	14954.4451	0.10558	0.11602	0.10307	0.12113	2.84E-04	2.48E-07	2.38E-07	2.42E-07	2.38E-07	2.8522E-04
520030.84	4258316.73	14952.36096	0.19659	4.39365	0.20633	3.70121	2.84E-04	4.62E-07	9.01E-06	4.84E-07	7.29E-06	3.0146E-04
519878.09	4258781.96	14951.16246	0.33031	0.40406	0.35072	0.39179	2.84E-04	7.75E-07	8.29E-07	8.23E-07	7.71E-07	2.8739E-04
519937.12	4258636.77	14921.6155	0.37368	0.80119	0.40941	0.76569	2.84E-04	8.77E-07	1.64E-06	9.61E-07	1.51E-06	2.8862E-04
519999.44	4258511.82	14916.92714	0.40894	2.12648	0.45261	1.88851	2.84E-04	9.60E-07	4.36E-06	1.06E-06	3.72E-06	2.9365E-04
520743.87	4258710.98	14911.28123	0.1087	0.09729	0.10591	0.09998	2.83E-04	2.55E-07	2.00E-07	2.49E-07	1.97E-07	2.8434E-04
520695.64	4258542.24	14907.70145	0.11958	0.1188	0.11508	0.12317	2.83E-04	2.81E-07	2.44E-07	2.70E-07	2.42E-07	2.8441E-04
520037.31	4258294.09	14897.66231	0.18626	5.23396	0.19607	4.30669	2.83E-04	4.37E-07	1.07E-05	4.60E-07	8.48E-06	3.0329E-04
520746.69	4258728.2	14892.87957	0.10822	0.09531	0.10555	0.09808	2.83E-04	2.54E-07	1.95E-07	2.48E-07	1.93E-07	2.8398E-04
519853.09	4258890.3	14890.37448	0.33263	0.28607	0.34945	0.27799	2.83E-04	7.81E-07	5.87E-07	8.20E-07	5.47E-07	2.8577E-04
520704.63	4258423.74	14887.09914	0.11469	0.11862	0.11114	0.12267	2.83E-04	2.69E-07	2.43E-07	2.61E-07	2.43E-07	2.8399E-04
520082.9	4259355.31	14878.35828	14.12594	0.13722	17.49195	0.13164	2.83E-04	3.32E-05	2.81E-07	4.11E-05	2.59E-07	3.5758E-04
520721.97	4258314.05	14867.77638	0.1066	0.1156	0.10365	0.12048	2.83E-04	2.50E-07	2.37E-07	2.43E-07	2.37E-07	2.8358E-04
520694.64	4258475.12	14865.61534	0.1187	0.12066	0.1145	0.12582	2.83E-04	2.79E-07	2.47E-07	2.69E-07	2.48E-07	2.8361E-04
520054.57	4258247.01	14856.30836	0.17008	9.7882	0.17936	7.01779	2.82E-04	3.99E-07	2.01E-05	4.21E-07	1.38E-05	3.1710E-04
520009.19	4258458.73	14840.57631	0.32975	2.65368	0.35317	2.32304	2.82E-04	7.74E-07	5.44E-06	8.29E-07	4.57E-06	2.9371E-04
520741.28	4258693.23	14834.9504	0.1091	0.0991	0.10606	0.10177	2.82E-04	2.56E-07	2.03E-07	2.49E-07	2.00E-07	2.8289E-04
520697.87	4258457.73	14822.34055	0.11739	0.11996	0.11345	0.12517	2.82E-04	2.76E-07	2.46E-07	2.66E-07	2.46E-07	2.8278E-04
520705.42	4258580.22	14820.53233	0.11731	0.11441	0.11321	0.11845	2.82E-04	2.75E-07	2.35E-07	2.66E-07	2.33E-07	2.8272E-04
520720.71	4258336.62	14806.72886	0.10765	0.11583	0.10453	0.12042	2.81E-04	2.53E-07	2.38E-07	2.45E-07	2.37E-07	2.8242E-04
520011.26	4258429.45	14802.62341	0.28763	2.79869	0.30536	2.44862	2.81E-04	6.75E-07	5.74E-06	7.17E-07	4.82E-06	2.9332E-04
520725.1	4258637.22	14789.16945	0.11265	0.10612	0.10883	0.10947	2.81E-04	2.64E-07	2.18E-07	2.55E-07	2.15E-07	2.8207E-04
520119.81	4258122.44	14785.16607	0.14115	7.85414	0.14269	9.20502	2.81E-04	3.31E-07	1.61E-05	3.35E-07	1.81E-05	3.1593E-04
520695.69	4258532.76	14783.72937	0.11938	0.11909	0.11486	0.12353	2.81E-04	2.80E-07	2.44E-07	2.70E-07	2.43E-07	2.8205E-04
519910.75	4258691.91	14783.43051	0.34655	0.59226	0.37302	0.56925	2.81E-04	8.14E-07	1.21E-06	8.76E-07	1.12E-06	2.8503E-04
520715.26	4258608.72	14770.43226	0.11496	0.11008	0.11098	0.1139	2.81E-04	2.70E-07	2.26E-07	2.61E-07	2.24E-07	2.8174E-04
520042.85	4259334.55	14764.49393	5.46518	0.13552	7.9915	0.13239	2.81E-04	1.28E-05	2.78E-07	1.88E-05	2.61E-07	3.1278E-04
520734.94	4258665.73	14755.85206	0.11037	0.10224	0.1069	0.10511	2.80E-04	2.59E-07	2.10E-07	2.51E-07	2.07E-07	2.8141E-04
520064	4258223.15	14746.21532	0.16295	17.40711	0.17112	9.81808	2.80E-04	3.83E-07	3.57E-05	4.02E-07	1.93E-05	3.3611E-04
519927.12	4258655.32	14742.89504	0.36031	0.71407	0.39121	0.68444	2.80E-04	8.46E-07	1.46E-06	9.18E-07	1.35E-06	2.8481E-04
520725.74	4258272.21	14734.39648	0.10407	0.11518	0.10181	0.12024	2.80E-04	2.44E-07	2.36E-07	2.39E-07	2.37E-07	2.8103E-04
520092.82	4259365.29	14724.19497	12.63571	0.13626	11.09954	0.1301	2.80E-04	2.97E-05	2.79E-07	2.61E-05	2.56E-07	3.3614E-04
520018.73	4258363.68	14702.17606	0.22112	3.30649	0.23196	2.86913	2.79E-04	5.19E-07	6.78E-06	5.45E-07	5.65E-06	2.9295E-04
520695.75	4258523.27	14690.86864	0.11918	0.11925	0.11465	0.12381	2.79E-04	2.80E-07	2.45E-07	2.69E-07	2.44E-07	2.8028E-04
519895.62	4258727.77	14680.97162	0.33373	0.50051	0.35866	0.48214	2.79E-04	7.83E-07	1.03E-06	8.42E-07	9.49E-07	2.8266E-04
520725.54	4258297.55	14673.90199	0.10513	0.1146	0.10242	0.11959	2.79E-04	2.47E-07	2.35E-07	2.40E-07	2.35E-07	2.7988E-04
519868.48	4258807	14666.98087	0.32178	0.36578	0.34035	0.35519	2.79E-04	7.55E-07	7.50E-07	7.99E-07	6.99E-07	2.8180E-04
520100.14	4258152.38	14663.7744	0.14658	15.02436	0.15006	15.85514	2.79E-04	3.44E-07	3.08E-05	3.52E-07	3.12E-05	3.4145E-04
520053.18	4259344.53	14654.75487	7.69063	0.13481	14.97615	0.13118	2.79E-04	1.81E-05	2.76E-07	3.52E-05	2.58E-07	3.3231E-04
519860.78	4258836.65	14653.74431	0.32094	0.33185	0.3383	0.32239	2.79E-04	7.53E-07	6.81E-07	7.94E-07	6.35E-07	2.8140E-04
520047.43	4258259.95	14647.72851	0.1726	7.25673	0.18214	5.63286	2.78E-04	4.05E-07	1.49E-05	4.28E-07	1.11E-05	3.0523E-04
519949.85	4258609	14638.07597	0.38517	0.94644	0.42781	0.89773	2.78E-04	9.04E-07	1.94E-06	1.00E-06	1.77E-06	2.8386E-04
520720.52	4258361.97	14609.94761	0.10861	0.11524	0.10533	0.11973	2.78E-04	2.55E-07	2.36E-07	2.47E-07	2.36E-07	2.7868E-04
519854.6	4258863.81	14605.08885	0.32129	0.30531	0.33772	0.29665	2.78E-04	7.54E-07	6.26E-07	7.93E-07	5.84E-07	2.8037E-04
520705.48	4258570.74	14593.6653	0.11709	0.11475	0.11296	0.11881	2.77E-04	2.75E-07	2.35E-07	2.65E-07	2.34E-07	2.7841E-04
519847.71	4258908.04	14574.61512	0.32271	0.27013	0.34376	0.26273	2.77E-04	7.69E-07	5.54E-07	8.07E-07	5.17E-07	2.7968E-04
520019.85	4258351.23	14572.86798	0.21312	3.38911	0.22332	2.93651	2.77E-04	5.00E-07	6.95E-06	5.24E-07	5.78E-06	2.9076E-04
519880.93	4258764.68	14571.60298	0.32421	0.42591	0.34483	0.4126	2.77E-04	7.61E-07	8.74E-07	8.10E-07	8.12E-07	2.8024E-04
520037.9	4258283.86	14555.67372	0.18006	5.31391	0.18955	4.37136	2.77E-04	4.23E-07	1.09E-05	4.45E-07	8.60E-06	2.9705E-04
520750.32	4258719.53	14549.10918	0.10695	0.09513	0.10428	0.09781	2.77E-04	2.51E-07	1.95E-07	2.45E-07	1.93E-07	2.7744E-04
520012.95	4258394.02	14537.16838	0.24609	2.92041	0.25925	2.55849	2.76E-04	5.78E-07	5.99E-06	6.09E-07	5.04E-06	2.8854E-04
520082.92	4259365.31	14523.57991	15.70952	0.13463	17.25251	0.1292	2.76E-04	3.69E-05	2.76E-07	4.05E-05	2.54E-07	3.5398E-04
520747.53	4258702.25	14523.48259	0.10742	0.09707	0.10459	0.09968	2.76E-04	2.52E-07	1.99E-07	2.46E-07	1.96E-07	2.7696E-04
520735	4258656.24	14523.3266	0.11013	0.10269	0.10659	0.10567	2.76E-04	2.59E-07	2.11E-07	2.50E-07	2.08E-07	2.7699E-04
520725.16	4258627.74	14519.12696	0.11241	0.10649	0.10859	0.10997	2.76E-04	2.64E-07	2.18E-07	2.55E-07	2.16E-07	2.7694E-04
520014.14	4258383.54	14518.92111	0.23662	2.99651	0.24885	2.62189	2.76E-04	5.56E-07	6.15E-06	5.84E-07	5.16E-06	2.8842E-04
519917.12	4258673.87	14509.4049	0.34739	0.64051	0.37494	0.61505	2.76E-04	8.16E-07	1.31E-06	8.80E-07	1.21E-06	2.8002E-04
519863.72	4258819.63	14508.43744	0.31759	0.34848	0.3351	0.33865	2.76E-04	7.46E-07	7.15E-07	7.87E-07	6.67E-07	2.7869E-04
520109.99	4258132.41	14506.38579	0.14185	10.43818	0.14421	12.05007	2.76E-04	3.33E-07	2.14E-05	3.39E-07	2.37E-05	3.2154E-04
520724.09	4258345.48	14506.19695	0.10718	0.1144	0.10395	0.11889	2.76E-04	2.52E-07	2.35E-07	2.44E-07	2.34E-07	2.7670E-04
519959.77	4258589.57	14506.05203	0.39593	1.08894	0.44387	1.02148	2.76E-04	9.30E-07	2.23E-06	1.04E-06	2.01E-06	2.8195E-04
520715.32	4258599.24	14500.34474	0.11472	0.11047	0.11078	0.11435	2.76E-04	2.69E-07	2.27E-07	2.60E-07	2.25E-07	2.7661E-04
520698.09	4258484.15	14492.46164	0.11779	0.11934	0.11354	0.12432	2.75E-04	2.77E-07	2.45E-07	2.67E-07	2.45E-07	2.7651E-04
520729.17	4258281.21	14466.8689	0.10367	0.11355	0.1012	0.11858	2.75E-04	2.43E-07	2.33E-07	2.38E-07	2.33E-07	2.7594E-04
519904.67	4258701.35	14464.06876	0.33678	0.55816	0.36134	0.53741	2.75E-04	7.91E-07	1.14E-06	8.48E-07	1.06E-06	2.7878E-04
520054.94	4258236.87	14443.55596	0.16468	9.9189	0.17353	7.0919	2.75E-04	3.87E-07	2.03E-05	4.07E-07	1.40E-05	3.0964E-04
520015.14	4258373.14	14442.68389	0.2276	3.0623	0.23899	2.67703	2.75E-04	5.34E-07	6.28E-06	5.61E-07	5.27E-06	2.8717E-04
520043.28	4259344.55	14434.82779	5.55415	0.13304	8.22942	0.12997	2.74E-04	1.30E-05	2.73E-07	1.93E-05	2.56E-07	3.0727E-04
519885.52	4258531.26	14425.57278	0.41206	1.76187	0.45928	1.59249	2.74E-04	9.67E-07	3.61E-06	1.08E-06	3.13E-06	2.8300E-04
519871.47	4258790.09	14420.74264	0.31757	0.38468	0.33637	0.37346	2.74E-04	7.46E-07	7.89E-07	7.90E-07	7.35E-07	2.7717E-04
520744.83	4258684.75	14420.72666	0.10785	0.09881	0.10478	0.10145	2.74E-04	2.53E-07	2.03E-07	2.46E-07	2.00E-07	2.7501E-04
520701.29	4258466.69	14411.56046	0.11655	0.1185	0.11252	0.1236	2.74E-04	2.74E-07	2.43E-07	2.64E-07	2.43E-07	2.7496E-04
520020.82	4258340.84	14402.6648	0.20552	3.46188	0.21513	2.99744	2.74E-04	4.82E-07	7.10E-06	5.05E-07	5.90E-06	2.8776E-04
520728.99	4258306.62	14395.50825	0.10467	0.11323	0.10177	0.11805	2.74E-04	2.46E-07	2.32E-07	2.39E-07	2.32E-07	2.7458E-04
520705.53	4258561.26	14391.07705	0.11688	0.11504	0.11269	0.11913	2.74E-04	2.74E-07	2.36E-07	2.65E-07	2.35E-07	2.7456E-04
520092.84	4259375.29	14371.19927	12.60874	0.13369	10.98905	0.12771	2.73E-04	2.96E-05	2.74E-07	2.58E-05	2.51E-07	3.2910E-04
519969.69	4258570.13	14359.50609	0.40473	1.26526	0.45362	1.17316	2.73E-04	9.50E-07	2.59E-06	1.06E-06	2.31E-06	2.7987E-04
519999.4	4258502.12	14354.94726	0.38642	1.14822	0.42408	1.90778	2.73E-04	9.07E-07	4.41E-06	9.96E-07	3.76E-06	2.8293E-04
520053.2	4259354.53	14317.09151	7.75148	0.13229	15.27015	0.12876	2.72E-04	1.82E-05	2.71E-07	3.58E-05	2.53E-07	3.2671E-04
520064.24	4258213.06	14312.54883	0.15789	17.62013	0.16563	9.88711	2.72E-04	3.71E-07	3.61E-05	3.89E-07	1.95E-05	3.2842E-04
520119.84	4258112.44	14304.22998	0.13719	7.85873	0.13862	9.20207	2.72E-04	3.22E-07	1.61E-05	3.25E-07	1.81E-05	3.0678E-04
519846.01	4258897.39	14290.67221	0.31771	0.27522	0.33289	0.26764	2.72E-04	7.46E-07	5.64E-07	7.82E-07	5.27E-07	2.7426E-04
519979.61	4258550.69	14285.54215	0.41015	1.48279	0.45838	1.35989	2.72E-04	9.63E-07	3.04E-06	1.08E-06	2.68E-06	2.7930E-04
520720.43	4258387.62	14284.43809	0.10943	0.11445	0.10611	0.11899	2.72E-04	2.57E-07	2.35E-07	2.49E-07	2.34E-07	2.7250E-04
520735.05	4258646.76	14279.25377	0.1099	0.10309	0.10631	0.10619	2.71E-04	2.58E-07	2.11E-07	2.50E-07	2.09E-07	2.7235E-04
519889.13	4258736.23	14257.67052	0.32301	0.47329	0.34491	0.45729	2.71E-04	7.58E-07	9.71E-07	8.10E-07	9.00E-07	2.7445E-04
520723.91	4258370.89	14255.78725	0.10804	0.11383	0.10475	0.11825	2.71E-04	2.54E-07	2.33E-07	2.46E-07	2.33E-07	2.7194E-04
520725.21	4258618.26	14249.32684	0.11217	0.10687	0.10838	0.11046	2.71E-04	2.63E-07	2.19E-07	2.54E-07	2.17E-07	2.7181E-04
520715.37	4258589.76	14245.14559	0.11449	0.11087	0.11057	0.11478	2.71E-04	2.69E-07	2.27E-07	2.60E-07	2.26E-07	2.7176E-04
520007.6	4259438.34	14243.98891	0.29317	2.59818	0.31161	2.28841	2.71E-04	6.88E-07	5.33E-06	7.32E-07	4.50E-06	2.8201E-04
520027.77	4258308.01	14240.00197	0.18762	4.06165	0.19657	3.46285	2.71E-04	4.40E-07	8.33E-06	4.61E-07	6.82E-06	2.8673E-04
520744.89	4258675.26	14227.85486	0.10764	0.0993	0.10445	0.10199	2.70E-04	2.53E-07	2.04E-07	2.45E-07	2.01E-07	2.7135E-04
520705.58	4258551.78	14216.16103	0.11668	0.11535	0.11243	0.11947	2.70E-04	2.74E-07	2.37E-07	2.64E-07	2.35E-07	2.7123E-04
520038.43	4258273.65	14212.86357	0.17416	5.38672	0.18337	4.42712	2.70E-04	4.09E-07	1.10E-05	4.30E-07	8.71E-06	2.9076E-04
520700.84	4258511.46	14206.74688	0.1174	0.11785	0.11299	0.12244	2.70E-04	2.76E-07	2.42E-07	2.65E-07	2.41E-07	2.7107E-04
520732.6	4258290.22	14204.35118	0.10323	0.11227	0.10058	0.11718	2.70E-04	2.42E-07	2.30E-07	2.36E-07	2.31E-07	2.7094E-04
520021.66	4258330.5	14200.33809	0.19828	3.52608	0.20742	3.05073	2.70E-04	4.65E-07	7.23E-06	4.87E-07	6.01E-06	2.8441E-04
520100.17	4258142.38	14196.26664	0.14233	15.04492	0.1456	15.91239	2.70E-04	3.34E-07	3.09E-05	3.42E-07	3.13E-05	3.3270E-04
520753.95	4258710.86	14193.44198	0.10571	0.09495	0.10303	0.09754	2.70E-04	2.48E-07	1.95E-07	2.42E-07	1.92E-07	2.7067E-04
520082.94	4259375.31	14183.30432	15.65256	0.13212	17.01862	0.12685	2.70E-04	3.67E-05	2.71E-07	4.00E-05	2.50E-07	3.4682E-04
520727.46	4258354.35	14182.52505	0.10663	0.11307	0.10339	0.11744	2.70E-04	2.50E-07	2.32E-07	2.43E-07	2.31E-07	2.7054E-04
520701.18	4258502.33	14169.80421	0.11715	0.11796	0.11279	0.12265	2.69E-04	2.75E-07	2.42E-07	2.65E-07	2.41E-07	2.7037E-04
520701.53	4258493.19	14162.80034	0.1169	0.118	0.11261	0.1228	2.69E-04	2.74E-07	2.42E-07	2.64E-07	2.42E-07	2.7023E-04
520751.18	4258693.53	14126.86506	0.10616	0.09681	0.1033	0.09937	2.69E-04	2.49E-07	1.99E-07	2.43E-07	1.96E-07	2.6941E-04
520732.44	4258315.68	14117.04144	0.10417	0.11199	0.10116	0.11663	2.68E-04	2.45E-07	2.30E-07	2.37E-07	2.30E-07	2.6928E-04
520043.3	4259354.55	14106.81781	5.57877	0.13058	8.31975	0.12758	2.68E-04	1.31E-05	2.68E-07	1.95E-05	2.51E-07	3.0129E-04
519874.37	4258772.97	14082.80594	0.3123	0.40479	0.33127	0.39271	2.68E-04	7.33E-07	8.30E-07	7.78E-07	7.73E-07	2.7080E-04
519883.66	4258747.14	14075.29301	0.31674	0.44886	0.33762	0.43423	2.68E-04	7.44E-07	9.21E-07	7.93E-07	8.55E-07	2.7086E-04
520045.69	4259250.68	14075.2646	0.16614	6.78528	0.17518	5.35522	2.68E-04	3.90E-07	1.39E-05	4.11E-07	1.05E-05	2.9280E-04
520705.64	4258542.29	14069.38826	0.11648	0.11556	0.11217	0.11974	2.67E-04	2.73E-07	2.37E-07	2.63E-07	2.36E-07	2.6844E-04
519898.33	4258710.17	14061.21806	0.32564	0.52695	0.34881	0.50795	2.67E-04	7.64E-07	1.08E-06	8.19E-07	1.00E-06	2.7094E-04
520055.28	4258226.75	14044.48202	0.15957	10.04245	0.16802	7.15987	2.67E-04	3.75E-07	2.06E-05	3.94E-07	1.41E-05	3.0242E-04
520110.02	4258122.41	14042.49321	0.13785	10.44651	0.14005	12.04597	2.67E-04	3.24E-07	2.14E-05	3.29E-07	2.37E-05	3.1271E-04
519850.96	4258855.16	14040.68429	0.30668	0.30698	0.32205	0.29854	2.67E-04	7.20E-07	6.30E-07	7.56E-07	5.88E-07	2.6958E-04
520092.85	4259385.29	14036.80581	12.48859	0.13124	10.8918	0.12542	2.67E-04	2.93E-05	2.69E-07	2.56E-05	2.47E-07	3.2222E-04
520704.7	4258475.65	14035.27931	0.11568	0.11719	0.1116	0.12213	2.67E-04	2.72E-07	2.40E-07	2.62E-07	2.40E-07	2.6780E-04
519847.6	4258870.98	14027.11967	0.30735	0.29316	0.32225	0.2851	2.67E-04	7.22E-07	6.01E-07	7.57E-07	5.61E-07	2.6927E-04
520735.1	4258637.28	14026.46689	0.10968	0.10346	0.10607	0.10669	2.67E-04	2.57E-07	2.12E-07	2.49E-07	2.10E-07	2.6755E-04
520744.94	4258665.78	14019.30218	0.10742	0.09976	0.10414	0.10253	2.66E-04	2.52E-07	2.05E-07	2.44E-07	2.02E-07	2.6738E-04
520715.42	4258580.28	14008.34904	0.11427	0.1113	0.11036	0.11521	2.66E-04	2.68E-07	2.28E-07	2.59E-07	2.27E-07	2.6726E-04
520007.92	4258413.3	14005.02339	0.26059	2.63683	0.27533	2.32687	2.66E-04	6.12E-07	5.41E-06	6.46E-07	4.58E-06	2.7746E-04
520707.98	4258458.39	13996.83081	0.11445	0.11644	0.11059	0.12143	2.66E-04	2.69E-07	2.39E-07	2.60E-07	2.39E-07	2.6706E-04
520053.22	4259364.53	13990.65864	7.80478	0.12985	15.58313	0.12641	2.66E-04	1.83E-05	2.66E-07	3.66E-05	2.49E-07	3.2136E-04
519927.12	4258646.05	13987.66337	0.34887	0.72427	0.37905	0.69514	2.66E-04	8.19E-07	1.49E-06	8.90E-07	1.37E-06	2.7044E-04
519857.03	4258827.62	13986.3514	0.3052	0.33319	0.3213	0.3241	2.66E-04	7.17E-07	6.83E-07	7.54E-07	6.38E-07	2.6865E-04
520725.26	4258608.78	13983.95926	0.11195	0.10724	0.10819	0.11092	2.66E-04	2.63E-07	2.20E-07	2.54E-07	2.18E-07	2.6676E-04
520022.41	4258320.21	13976.28843	0.19144	3.58397	0.20017	3.09898	2.66E-04	4.49E-07	7.35E-06

519907.12	4258683.15	13607.63183	0.32501	0.58641	0.3489	0.56469	2.59E-04	7.63E-07	1.20E-06	8.19E-07	1.11E-06	2.6255E-04	
520715.53	4258561.31	13601.37858	0.11386	0.11194	0.10987	0.11587	2.59E-04	2.67E-07	2.30E-07	2.58E-07	2.28E-07	2.5952E-04	
520110.05	4258112.41	13599.35505	0.13402	10.45566	0.1361	12.00483	2.58E-04	3.15E-07	2.14E-05	3.20E-07	2.36E-05	3.0421E-04	
520745.05	4258646.82	13561.76708	0.10701	0.10051	0.10361	0.10351	2.58E-04	2.51E-07	2.06E-07	2.43E-07	2.04E-07	2.5869E-04	
519959.73	4258579.87	13552.97295	0.38017	1.10675	0.42426	1.03673	2.58E-04	8.93E-07	2.27E-06	9.96E-07	2.04E-06	2.6382E-04	
520754.89	4258675.32	13536.2278	0.10477	0.09692	0.10174	0.09951	2.57E-04	2.46E-07	1.99E-07	2.39E-07	1.96E-07	2.5818E-04	
520730.71	4258388.74	13525.76086	0.10682	0.11105	0.10359	0.11539	2.57E-04	2.51E-07	2.28E-07	2.43E-07	2.27E-07	2.5805E-04	
520734.21	4258372.08	13518.45524	0.10551	0.11038	0.1023	0.11462	2.57E-04	2.48E-07	2.26E-07	2.40E-07	2.26E-07	2.5790E-04	
520004.35	4258421.99	13517.61263	0.26525	2.46118	0.28045	2.18456	2.57E-04	6.23E-07	5.05E-06	6.58E-07	4.30E-06	2.6757E-04	
520735.21	4258618.32	13511.02193	0.10925	0.10414	0.10567	0.10761	2.57E-04	2.56E-07	2.14E-07	2.48E-07	2.12E-07	2.5775E-04	
519843.98	4258862.39	13499.85382	0.2938	0.29463	0.30775	0.2868	2.57E-04	6.90E-07	6.04E-07	7.22E-07	5.65E-07	2.5919E-04	
520009.85	4258365.34	13497.86049	0.21431	2.75852	0.22462	2.44038	2.57E-04	5.03E-07	5.66E-06	5.27E-07	4.80E-06	2.6806E-04	
520727.27	4258405.59	13496.58946	0.10813	0.11159	0.10484	0.11609	2.57E-04	2.54E-07	2.29E-07	2.46E-07	2.29E-07	2.5750E-04	
520725.37	4258589.82	13484.7708	0.11153	0.10795	0.10781	0.11172	2.56E-04	2.62E-07	2.21E-07	2.53E-07	2.20E-07	2.5728E-04	
520043.33	4259374.55	13482.18444	5.64531	0.12587	8.50373	0.12303	2.56E-04	1.33E-05	2.58E-07	2.00E-05	2.42E-07	2.8999E-04	
520078.67	4259395.72	13475.5324	16.36914	16.12678	20.03811	0.12202	2.56E-04	3.84E-05	2.60E-07	4.70E-05	2.40E-07	3.4212E-04	
519840.47	4258877.85	13467.65591	0.29389	0.28178	0.30734	0.27429	2.56E-04	6.90E-07	5.78E-07	7.22E-07	5.40E-07	2.5853E-04	
519847.32	4258846.51	13466.4475	0.29273	0.30827	0.30715	0.30012	2.56E-04	6.87E-07	6.32E-07	7.21E-07	5.91E-07	2.5860E-04	
520761.2	4258693.53	13453.67071	0.1033	0.09456	0.10058	0.09701	2.56E-04	2.43E-07	1.94E-07	2.38E-07	1.91E-07	2.5659E-04	
520011.11	4258354.84	13444.74143	0.20688	2.82895	0.21655	2.49953	2.56E-04	4.86E-07	5.80E-06	5.08E-07	4.92E-06	2.6728E-04	
520715.58	4258551.83	13437.49698	0.11368	0.11221	0.10963	0.11618	2.55E-04	2.67E-07	2.30E-07	2.57E-07	2.29E-07	2.5641E-04	
520710.84	4258511.83	13428.18787	0.11441	0.11467	0.11018	0.11905	2.55E-04	2.69E-07	2.35E-07	2.59E-07	2.34E-07	2.5624E-04	
520723.92	4258422.64	13424.76196	0.10936	0.11225	0.10601	0.11684	2.55E-04	2.57E-07	2.30E-07	2.49E-07	2.30E-07	2.5615E-04	
519969.65	4258560.43	13421.42302	0.38686	1.28331	0.43075	1.18952	2.55E-04	9.08E-07	2.63E-06	1.01E-06	2.34E-06	2.6201E-04	
520742.88	4258317.23	13421.42057	0.10182	0.1086	0.09878	0.11301	2.55E-04	2.39E-07	2.23E-07	2.32E-07	2.22E-07	2.5603E-04	
520063.61	4258193.35	13420.95286	0.14816	16.52504	0.15526	9.59285	2.55E-04	3.48E-07	3.39E-05	3.65E-07	1.89E-05	3.0860E-04	
520029.82	4258277.2	13412.34215	0.16993	4.25475	0.17816	3.6214	2.55E-04	3.99E-07	8.73E-06	4.18E-07	7.13E-06	2.7162E-04	
519979.56	4258541	13408.81911	0.39036	1.50209	0.4337	1.37707	2.55E-04	9.16E-07	3.08E-06	1.02E-06	2.71E-06	2.6260E-04	
520711.18	4258502.7	13393.6232	0.11417	0.11472	0.10999	0.1192	2.55E-04	2.68E-07	2.35E-07	2.58E-07	2.35E-07	2.5558E-04	
520711.52	4258493.57	13390.83229	0.11395	0.11468	0.10981	0.11927	2.55E-04	2.68E-07	2.35E-07	2.58E-07	2.35E-07	2.5553E-04	
520053.25	4259384.53	13368.84592	7.97432	0.12518	16.24682	0.12192	2.54E-04	1.87E-05	2.57E-07	3.81E-05	2.40E-07	3.1148E-04	
520046.56	4258230.35	13366.11498	0.15611	6.9574	0.1645	5.4729	2.54E-04	3.66E-07	1.43E-05	3.86E-07	1.08E-05	2.7988E-04	
520720.65	4258439.94	13354.27753	0.11059	0.11271	0.10705	0.11748	2.54E-04	2.60E-07	2.31E-07	2.51E-07	2.31E-07	2.5481E-04	
520012.19	4258344.4	13345.65486	0.19975	2.89047	0.2088	2.55239	2.54E-04	4.69E-07	5.93E-06	4.90E-07	5.02E-06	2.6559E-04	
520088.58	4259405.71	13344.56976	13.34105	0.12603	12.14676	0.12073	2.54E-04	3.13E-05	2.58E-07	2.85E-05	2.38E-07	3.1399E-04	
520754.94	4258665.84	13335.03518	0.10458	0.09735	0.10147	0.10002	2.53E-04	2.46E-07	2.00E-07	2.38E-07	1.97E-07	2.5436E-04	
520100.23	4258122.38	13330.49556	0.13446	15.07372	0.13734	15.96652	2.53E-04	3.16E-07	3.09E-05	3.22E-07	3.14E-05	3.1637E-04	
520036.8	4258254.35	13323.21804	0.16218	5.11207	0.1706	4.24758	2.53E-04	3.81E-07	1.05E-05	4.01E-07	8.36E-06	2.7288E-04	
520739.34	4258359.68	13321.77189	0.10393	0.10904	0.10074	0.11319	2.53E-04	2.44E-07	2.24E-07	2.37E-07	2.23E-07	2.5415E-04	
520745.1	4258637.34	13319.69126	0.10682	0.10083	0.1034	0.10397	2.53E-04	2.51E-07	2.07E-07	2.43E-07	2.05E-07	2.5409E-04	
519853.29	4258818.59	13310.46106	0.29019	0.33431	0.30536	0.32548	2.53E-04	6.81E-07	6.86E-07	7.17E-07	6.41E-07	2.5573E-04	
519900.89	4258692.25	13308.08877	0.3156	0.55324	0.33769	0.53354	2.52E-04	7.41E-07	1.13E-06	7.93E-07	1.05E-06	2.5668E-04	
520005.75	4258387.01	13301.95688	0.22922	2.54609	0.2408	2.26479	2.53E-04	5.38E-07	5.22E-06	5.65E-07	4.46E-06	2.6363E-04	
520715.64	4258542.35	13301.06866	0.11349	0.11247	0.10939	0.11648	2.53E-04	2.66E-07	2.31E-07	2.57E-07	2.29E-07	2.5381E-04	
520018.88	4258311.68	13295.22742	0.18259	3.31427	0.19059	2.89457	2.53E-04	4.29E-07	6.80E-06	4.47E-07	5.70E-06	2.6605E-04	
520714.75	4258476.17	13271.79658	0.11279	0.11387	0.10883	0.11859	2.52E-04	2.65E-07	2.34E-07	2.55E-07	2.33E-07	2.5326E-04	
519885.46	4258727.38	13262.50169	0.30418	0.47176	0.32444	0.45597	2.52E-04	7.14E-07	9.68E-07	7.62E-07	8.98E-07	2.5544E-04	
520725.42	4258580.33	13260.00173	0.1133	0.1083	0.10761	0.11207	2.52E-04	2.61E-07	2.22E-07	2.53E-07	2.21E-07	2.5301E-04	
520735.26	4258608.84	13258.15945	0.10905	0.10449	0.1055	0.10804	2.52E-04	2.56E-07	2.14E-07	2.48E-07	2.13E-07	2.5294E-04	
519927.12	4258636.77	13252.63084	0.33805	0.73424	0.36787	0.7053	2.52E-04	7.94E-07	1.51E-06	8.64E-07	1.39E-06	2.5646E-04	
520742.79	4258342.87	13252.30622	0.10261	0.10832	0.09948	0.11246	2.52E-04	2.41E-07	2.22E-07	2.34E-07	2.21E-07	2.5282E-04	
520718.07	4258459.03	13236.63954	0.11161	0.11309	0.10786	0.11788	2.52E-04	2.62E-07	2.32E-07	2.53E-07	2.32E-07	2.5258E-04	
519870.64	4258763.99	13226.05349	0.29537	0.40485	0.31286	0.39295	2.51E-04	6.93E-07	8.30E-07	7.34E-07	7.74E-07	2.5444E-04	
520000.39	4258456.11	13220.66004	0.30413	2.25667	0.32419	2.00938	2.51E-04	7.14E-07	4.63E-06	7.61E-07	3.96E-06	2.6136E-04	
520013.14	4258334.02	13212.90196	0.19294	2.94594	0.20147	2.59929	2.51E-04	4.53E-07	6.04E-06	4.73E-07	5.12E-06	2.6324E-04	
520715.69	4258532.87	13194.53009	0.11332	0.11268	0.10918	0.11676	2.51E-04	2.66E-07	2.31E-07	2.56E-07	2.30E-07	2.5179E-04	
520043.35	4259384.55	13184.91109	5.70134	0.12362	8.59936	0.12084	2.51E-04	1.34E-05	2.54E-07	2.02E-05	2.38E-07	2.8469E-04	
520737.59	4258380.94	13182.42671	0.10495	0.10898	0.10175	0.11319	2.51E-04	2.46E-07	2.24E-07	2.39E-07	2.23E-07	2.5151E-04	
520054.39	4258207.14	13180.8256	0.14956	9.54213	0.15734	6.92649	2.51E-04	3.51E-07	1.96E-05	3.69E-07	1.36E-05	2.8447E-04	
520079.68	4259405.72	13176.50391	16.11421	0.12454	19.76931	0.1199	2.50E-04	3.78E-05	2.55E-07	4.64E-05	2.36E-07	3.3520E-04	
519861.14	4258789.3	13161.34504	0.28995	0.36735	0.30611	0.35726	2.50E-04	6.81E-07	7.53E-07	7.19E-07	7.03E-07	2.5303E-04	
520734.11	4258397.66	13151.86666	0.10618	0.10972	0.103	0.11402	2.50E-04	2.49E-07	2.25E-07	2.42E-07	2.24E-07	2.5093E-04	
519917.12	4258655.32	13142.27325	0.3266	0.65889	0.35232	0.63455	2.50E-04	7.67E-07	1.35E-06	8.27E-07	1.25E-06	2.5401E-04	
519889.44	4258511.86	13134.84945	0.37127	1.80311	0.40832	1.62655	2.50E-04	8.72E-07	3.70E-06	9.59E-07	3.21E-06	2.5840E-04	
520030.38	4258266.99	13126.57486	0.16463	4.30797	0.17266	3.66458	2.50E-04	3.86E-07	8.84E-06	4.05E-07	7.21E-06	2.6635E-04	
520754.99	4258656.36	13120.78441	0.1044	0.09773	0.10123	0.1005	2.49E-04	2.45E-07	2.00E-07	2.38E-07	1.98E-07	2.5028E-04	
520715.74	4258523.39	13117.85351	0.11316	0.11289	0.109	0.11706	2.49E-04	2.66E-07	2.32E-07	2.56E-07	2.30E-07	2.5033E-04	
519879.86	4258738	13104.46814	0.29827	0.44779	0.31745	0.43338	2.49E-04	7.00E-07	9.18E-07	7.45E-07	8.53E-07	2.5231E-04	
520730.69	4258414.57	13102.65092	0.10745	0.11024	0.10418	0.11472	2.49E-04	2.52E-07	2.26E-07	2.45E-07	2.26E-07	2.5001E-04	
520019.75	4258301.33	13093.38073	0.17672	3.37395	0.18442	2.94481	2.49E-04	4.15E-07	6.92E-06	4.33E-07	5.80E-06	2.6245E-04	
520745.16	4258627.86	13073.38184	0.10662	0.10118	0.10321	0.10443	2.49E-04	2.50E-07	2.08E-07	2.42E-07	2.06E-07	2.4941E-04	
520764.83	4258684.86	13072.78467	0.10215	0.0942	0.09939	0.09664	2.48E-04	2.40E-07	1.93E-07	2.33E-07	1.90E-07	2.4935E-04	
520725.48	4258570.85	13055.78547	0.11114	0.10861	0.10739	0.1124	2.48E-04	2.61E-07	2.23E-07	2.52E-07	2.21E-07	2.4912E-04	
519856.17	4258801.44	13054.30318	0.28609	0.35052	0.30153	0.34115	2.48E-04	6.72E-07	7.19E-07	7.08E-07	6.72E-07	2.5091E-04	
520013.97	4258323.69	13051.66667	0.18646	2.99478	0.19453	2.64122	2.48E-04	4.38E-07	6.14E-06	4.57E-07	5.20E-06	2.6032E-04	
520063.85	4258183.26	13050.78713	0.14389	16.70083	0.15062	9.66763	2.48E-04	3.38E-07	3.43E-05	3.54E-07	1.90E-05	3.0205E-04	
520090.41	4258132.35	13044.06622	0.13471	25.66983	0.13843	17.09441	2.48E-04	3.16E-07	5.26E-05	3.25E-07	3.37E-05	3.3488E-04	
520089.6	4259415.71	13043.89012	13.20119	0.1238	12.01849	0.11864	2.48E-04	3.10E-05	2.54E-07	2.82E-05	2.34E-07	3.0764E-04	
520000.77	4258430.68	13029.4315	0.26983	2.30145	0.28548	2.05423	2.48E-04	6.33E-07	4.72E-06	6.70E-07	4.04E-06	2.5773E-04	
520727.36	4258431.7	13024.77862	0.10863	0.11083	0.10525	0.11543	2.48E-04	2.55E-07	2.27E-07	2.27E-07	2.27E-07	2.4853E-04	
520046.94	4258220.2	13023.90875	0.15146	7.03249	0.15954	5.52358	2.48E-04	3.56E-07	1.44E-05	3.75E-07	1.09E-05	2.7359E-04	
520037.34	4258244.14	13015.14398	0.15728	5.18007	0.16547	4.29917	2.47E-04	3.69E-07	1.06E-05	3.88E-07	8.46E-06	2.6724E-04	
520735.32	4258599.35	13013.94234	0.10885	0.10483	0.10533	0.10843	2.47E-04	2.56E-07	2.15E-07	2.47E-07	2.13E-07	2.4830E-04	
520742.82	4258368.8	12996.81183	0.10336	0.10771	0.10021	0.1118	2.47E-04	2.43E-07	2.21E-07	2.35E-07	2.20E-07	2.4796E-04	
520049.96	4259394.95	12996.74451	7.20017	0.12234	12.75539	0.11933	2.47E-04	1.69E-05	2.51E-07	2.99E-05	2.35E-07	2.9438E-04	
519884.59	4258701.16	12989.56257	0.30608	0.52283	0.32671	0.50485	2.47E-04	7.19E-07	1.07E-06	7.67E-07	9.94E-07	2.5046E-04	
519907.12	4258673.87	12987.38325	0.31558	0.59486	0.33841	0.57362	2.47E-04	7.41E-07	1.22E-06	7.94E-07	1.13E-06	2.5075E-04	
519939.85	4258609.05	12966.42429	0.34797	0.8582	0.38328	0.81876	2.46E-04	8.17E-07	1.76E-06	9.00E-07	1.61E-06	2.5156E-04	
519840.37	4258853.79	12962.90019	0.28086	0.29579	0.29398	0.28824	2.46E-04	6.59E-07	6.07E-07	6.90E-07	5.67E-07	2.4892E-04	
520746.24	4258351.93	12960.62073	0.10209	0.10704	0.09896	0.11109	2.46E-04	2.40E-07	2.20E-07	2.32E-07	2.19E-07	2.4727E-04	
520724.13	4258449.06	12960.36727	0.10981	0.11134	0.10622	0.11604	2.46E-04	2.58E-07	2.28E-07	2.49E-07	2.28E-07	2.4732E-04	
519833.48	4258885.03	12960.27665	0.28179	0.27104	0.29393	0.26406	2.46E-04	6.62E-07	5.56E-07	6.90E-07	5.20E-07	2.4878E-04	
520718.13	4258485.06	12959.24161	0.11195	0.11268	0.10797	0.11724	2.46E-04	2.63E-07	2.31E-07	2.53E-07	2.31E-07	2.4731E-04	
519836.75	4258869	12955.94208	0.28087	0.28317	0.2935	0.27591	2.46E-04	6.59E-07	5.81E-07	6.89E-07	5.43E-07	2.4874E-04	
520100.26	4258112.38	12933.32263	0.13082	15.08266	0.13351	16.12367	2.46E-04	3.07E-07	3.09E-05	3.13E-07	3.17E-05	3.0913E-04	
520106.08	4258102.11	12910.53662	0.12906	11.99693	0.13124	13.56271	2.45E-04	3.03E-07	2.46E-05	3.08E-07	2.67E-05	2.9732E-04	
520755.05	4258646.88	12895.54311	0.10422	0.09804	0.10101	0.10094	2.45E-04	2.45E-07	2.01E-07	2.37E-07	1.99E-07	2.4600E-04	
520764.89	4258675.38	12891.79233	0.102	0.09462	0.09913	0.09712	2.45E-04	2.39E-07	1.94E-07	2.33E-07	1.91E-07	2.4591E-04	
520079.7	4259415.72	12888.76323	15.85025	0.12237	19.49327	0.11785	2.45E-04	3.72E-05	2.51E-07	4.58E-05	2.32E-07	3.2845E-04	
520721.43	4258467.85	12886.57406	0.11081	0.11189	0.10702	0.11655	2.45E-04	2.60E-07	2.29E-07	2.51E-07	2.29E-07	2.4592E-04	
519843.68	4258837.86	12884.04621	0.27942	0.30926	0.29302	0.30139	2.45E-04	6.56E-07	6.34E-07	6.88E-07	5.93E-07	2.4747E-04	
520010.53	4258291.03	12876.4942	0.17113	3.42831	0.1786	2.88985	2.45E-04	4.02E-07	7.03E-06	4.19E-07	5.89E-06	2.5850E-04	
520725.53	4258561.37	12876.3508	0.11096	0.10896	0.10717	0.11275	2.45E-04	2.60E-07	2.23E-07	2.52E-07	2.22E-07	2.4571E-04	
520000.91	4258406.07	12836.04019	0.24184	2.32534	0.25454	2.08075	2.44E-04	5.68E-07	4.77E-06	5.98E-07	4.10E-06	2.5402E-04	
520054.73	4258197.01	12831.59383	0.14523	9.65938	0.15268	6.99027	2.44E-04	3.41E-07	1.98E-05	3.58E-07	1.38E-05	2.7818E-04	
520740.97	4258389.81	12831.1545	0.10433	0.10773	0.10119	0.11191	2.44E-04	2.45E-07	2.21E-07	2.38E-07	2.20E-07	2.4482E-04	
520745.21	4258618.37	12827.66543	0.10643	0.10152	0.10305	0.10487	2.44E-04	2.50E-07	2.08E-07	2.42E-07	2.06E-07	2.4474E-04	
519949.77	4258589.61	12826.62717	0.35715	0.97771	0.39649	0.92395	2.44E-04	8.38E-07	2.01E-06	9.31E-07	1.82E-06	2.4940E-04	
520040.06	4259394.96	12823.37819	5.21773	0.12085	7.47668	0.11828	2.44E-04	1.22E-05	2.48E-07	1.76E-05	2.33E-07	2.7403E-04	
519864.08	4258772.27	12815.50683	0.28518	0.38545	0.30136	0.37461	2.44E-04	6.70E-07	7.91E-07	7.07E-07	7.37E-07	2.4650E-04	
520735.37	4258589.87	12783.93522	0.10867	0.10514	0.10516	0.10878	2.43E-04	2.55E-07	2.16E-07	2.47E-07	2.14E-07	2.4393E-04	
520737.5	4258406.59	12782.38221	0.10554	0.10838	0.10238	0.11267	2.43E-04	2.48E-07	2.22E-07	2.40E-07	2.22E-07	2.4390E-04	
519996.63	4258465	12781.94091	0.30942	2.1098	0.33065	1.88733	2.43E-04	7.26E-07	4.33E-06	7.76E-07	3.72E-06	2.5251E-04	
520089.62	4259425.71	12753.94116	13.03529	0.12163	11.8887	0.11661	2.42E-04	3.06E-05	2.49E-07	2.79E-05	2.30E-07	3.0142E-04	
519873.42	4258746.56	12747.44398	0.28887	0.42517	0.30635	0.41225	2.42E-04	6.78E-07	8.72E-07	7.19E-07	8.12E-07	2.4539E-04	
520725.58	4258551.89	12722.11779	0.11078	0.10925	0.10694	0.11306	2.42E-04	2.60E-07	2.24E-07	2.51E-07	2.23E-07	2.4278E-04	
520734.11	4258423.56	12713.02113	0.10673	0.10894	0.10348	0.11339	2.42E-04	2.51E-07	2.23E-07	2.43E-07	2.23E-07	2.4259E-04	
520049.98	4259404.95	12712.62167	7.31155	0.1202	12.97143	0.11727	2.42E-04	1.72E-05	2.47E-07	3.05E-05	2.31E-07	2.8974E-04	
520720.83	4258512.21	12711.78671	0.11154	0.11153	0.10748	0.11573	2.42E-04	2.62E-07	2.29E-07	2.52E-07	2.28E-07	2.4260E-04	
520037.84	4258233.95	12711.42201	0.15262	5.24363	0.1606	4.34703	2.42E-04	3.58E-07	1.08E-05	3.77E-07	8.56E-06	2.6167E-04	
519978.52	4258531.3	12699.51655	0.37207	1.52051	0.41104	1.39331	2.41E-04	8.74E-07	3.12E-06	9.65E-07	2.74E-06	2.4990E-04	
520764.94	4258665.9	12697.6504	0.10184	0.095	0.09889	0.09759	2.41E-04	2.39E-07	1.95E-07	2.32E-07	1.92E-07	2.4222E-04	
519989.4	4258502.16	12692.8227	0.35279	1.82147	0.38543	1.64454	2.41E-04	8.28E-07	3.74E-06	9.05E-07	3.24E-06	2.4997E-04	
520064.08	4258173.18	12690.69499	0.13982	16.86979	0.14622	9.72724	2.41E-04	3.28E-07	3.46E-05	3.43E-07	1.91E-05	2.9565E-04	
519959.69	4258570.17	12683.05881	0.36479	1.12301	0.40466	1.05109	2.41E-04	8.56E-07	2.30E-06	9.50E-07	2.07E-06	2.4726E-04	
520721.17	4258503.08	12681.36046	0.11132	0.11155	0.1073	0.11584	2.41E-04	2.61E-07	2.29E-07	2.52E-07	2.28E-07	2.4202E-04	
520721.51	4258493.94	12678.48547	0.11111	0.11155	0.10713	0.11594	2.41E-04	2.61E-07	2.29E-07	2.52E-07	2.28E-07	2.4196E-04	
520746.29	4258377.93	12664.02533	0.10277	0.10641	0.09967	0.11046	2.41E-04	2.41E-07	2.18E-07	2.34E-07	2.17E-07	2.4163E-04	
520755.1	4258637.39	12663.80033	0.10405	0.09834	0.10082	0.10137	2.41E-04	2.44E-07	2.02E-07	2.37E-07	2.00E-07	2.4160E-04	
520749.7	4258361	12661.82883	0.10156	0.10573	0.09845	0.10973	2.41E-04	2.38E-07	2.17E-07	2.31E-07	2.16E-07	2.4158E-04	
520090.44	4258122.35	12661.29794	0.13104	25.70709	0.13455	17.29996	2.41E-04	3.08E-07	5.27E-05	3.16E-07	3.41E-05	3.2807E-04	
520021.22	4258280.75	12646.67152	0.16581	3.47589	0.17307	3.0309	2.40E-04	3.89E-07	7.13E-06	4.06E-07	5.97E-06	2.5428E-04	
520730.81	4258440.75	12638.73373	0.10788	0.10952	0.10447	0.11407	2.40E-04	2.53E-07	2.25E-07	2.45E-07	2.25E-07	2.4119E-04	
519849.54	4258809.56	12630.97046	0.27591	0.33509	0.29021	0.32644	2.40E-04	6.48E-07	6.87E-07	6.81E-07	6.43E-07	2.4275E-04	
519888.22	4258709.92	12628.90984	0.29574	0.49506	0.31596	0.47803	2.40E-04	6.94E-07	1.02E-06	7.42E-07	9.41E-07	2.4345E-04	
520079.72	4259425.72	12617.15597	15.41232	0.1203	19.34512	0.11588	2.40E-04	3.62E-05	2.47E-07	4.52E-05	2.28E-07	3.2167E-04	
519968.61	4258550.74	12607.01906	0.36088	1.2994	0.40895	1.20492	2.40E-04	8.68E-07	2.66E-06	9.61E-07	2.37E-06	2.4650E-04	
520753.17	4258344.24	12604.90303	0.10028	0.10509	0.09722	0.10905	2.40E-04	2.35E-07	2.16E-07	2.28E-07	2.15E-07	2.4049E-04	
520027.92	4258258.01	12601.08256	0.15829	4.04527	0.16581	3.47211	2.40E-04	3.72E-07	8.30E-06	3.89E-07	6.83E-06	2.5542E-04	
520725.64	4258542.41	12594.2987	0.11061	0.1095	0.10672	0.11334	2.39E-04	2.60E-07	2.25E-07	2.51E-07	2.23E-07	2.4035E-04	
520727.6	4258458.19	12591.43857	0.10901	0.11009	0.10538	0.11468	2.39E-04	2.56E-07	2.26E-07	2.47E-07	2.26E-07	2.4030E-04	
520745.26	4258608.89	12587.01551	0.10625	0.10185	0.1029	0.10528	2.39E-04	2.49E-07	2.09E-07	2.42E-07	2.07E-07	2.4016E-04	
520735.42	4258580.39	12570.67549	0.1085	0.10538	0.10496	0.10905	2.39E-04	2.55E-07	2.16E-07	2.46E-07	2.15E-07	2.3988E-04	
520724.79	4258476.67	12567.99218	0.11	0.11072	0.10618	0.11523	2.39E-04	2.58E-07	2.27E-07	2.49E-07	2.27E-07	2.3986E-04	
520045.43	4258210.84	12565.39333	0.14637	6.64334	0.15414	5.28473	2.39E-04	3.44E-07	1.36E-05	3.62E-07	1.04E-05	2.6358E-04	
519997.2	4258439.37	12558.69888	0.27435	2.15685	0.29049	1.93475	2.39E-04	6.44E-07	4.42E-06	6.82E-07	3.81E-06	2.4828E-04	
520040.08	4259404.96	12547.06365	5.27491	0.11875	7.55354

520728.15	4258485.5	12279.09501	0.10919	0.1096	10.0536	0.11396	2.33E-04	2.56E-07	2.25E-07	2.47E-07	2.24E-07	2.3436E-04
520040.1	4259414.96	12278.77625	5.34353	0.11672	7.63229	0.11427	2.33E-04	1.25E-05	2.39E-07	1.79E-05	2.25E-07	2.6432E-04
520765.05	4258646.93	12275.72801	0.10153	0.09564	0.09849	0.09845	2.33E-04	2.38E-07	1.96E-07	2.31E-07	1.94E-07	2.3420E-04
520734.26	4258449.8	12275.54506	0.10713	0.10825	0.10367	0.11274	2.33E-04	2.52E-07	2.22E-07	2.43E-07	2.22E-07	2.3427E-04
520010.97	4258304.96	12257.93404	0.17221	2.82106	0.17925	2.5077	2.33E-04	4.04E-07	5.79E-06	4.21E-07	4.94E-06	2.4455E-04
520045.84	4258200.68	12254.68573	0.14222	6.72003	0.14973	5.33613	2.33E-04	3.34E-07	1.38E-05	3.52E-07	1.05E-05	2.5791E-04
520731.07	4258467.32	12249.48212	0.10819	0.10894	0.10454	0.1134	2.33E-04	2.54E-07	2.23E-07	2.45E-07	2.23E-07	2.3379E-04
519998.56	4258379.99	12234.75779	0.21419	2.24553	0.22437	2.02286	2.33E-04	5.03E-07	4.61E-06	5.27E-07	3.98E-06	2.4218E-04
519897.12	4258683.15	12233.26188	0.29648	0.54693	0.3164	0.52863	2.33E-04	6.96E-07	1.12E-06	7.43E-07	1.04E-06	2.3613E-04
520089.65	4259445.71	12212.86549	12.59876	0.11754	11.63442	0.11276	2.32E-04	2.96E-05	2.41E-07	2.73E-05	2.22E-07	2.8950E-04
520735.53	4258561.43	12208.31623	0.10816	0.10609	0.10456	0.10974	2.32E-04	2.54E-07	2.18E-07	2.45E-07	2.16E-07	2.3299E-04
520755.21	4258618.43	12195.04043	0.10371	0.09896	0.10052	0.10221	2.32E-04	2.43E-07	2.03E-07	2.36E-07	2.01E-07	2.3269E-04
519876.07	4258728.86	12181.82002	0.28142	0.4457	0.28871	0.4318	2.32E-04	6.61E-07	9.14E-07	7.01E-07	8.50E-07	2.3468E-04
520005.53	4258327.18	12180.25534	0.18167	2.54908	0.18933	2.28334	2.32E-04	4.27E-07	5.23E-06	4.44E-07	4.49E-06	2.4212E-04
519939.81	4258599.35	12176.30281	0.33603	0.87106	0.37019	0.82992	2.31E-04	7.89E-07	1.79E-06	8.69E-07	1.63E-06	2.3653E-04
520050.01	4259424.95	12171.18381	7.58902	0.11611	13.41094	0.11332	2.31E-04	1.78E-05	2.38E-07	3.15E-05	2.23E-07	2.8111E-04
520055.34	4258176.79	12167.95247	0.1372	9.85915	0.14402	7.09809	2.31E-04	3.22E-07	2.02E-05	3.38E-07	1.40E-05	2.6614E-04
520745.37	4258589.93	12136.97217	0.10592	0.10243	0.1026	0.10595	2.31E-04	2.49E-07	2.10E-07	2.41E-07	2.09E-07	2.3161E-04
520747.72	4258407.54	12133.34008	0.10309	0.10518	0.10002	0.10933	2.31E-04	2.42E-07	2.16E-07	2.35E-07	2.15E-07	2.3154E-04
519979.48	4258521.6	12123.42309	0.35485	1.53755	0.38981	1.40854	2.30E-04	8.33E-07	3.15E-06	9.15E-07	2.77E-06	2.3812E-04
519993.62	4258448.05	12117.00303	0.2788	2.02518	0.29555	1.82435	2.30E-04	6.55E-07	4.15E-06	6.94E-07	3.59E-06	2.3942E-04
520011.84	4258294.61	12093.41459	0.16691	2.86681	0.17363	2.54735	2.30E-04	3.92E-07	5.88E-06	4.08E-07	5.01E-06	2.4157E-04
520079.75	4259445.72	12081.47121	15.79727	0.11632	18.72106	0.1121	2.30E-04	3.71E-05	2.39E-07	4.40E-05	2.21E-07	3.1114E-04
519989.32	4258482.77	12079.85437	0.31952	1.85285	0.34446	1.67211	2.30E-04	7.50E-07	3.80E-06	8.09E-07	3.29E-06	2.3827E-04
520029.12	4259237.55	12079.63051	0.14918	4.1485	0.15641	3.55536	2.30E-04	3.50E-07	8.51E-06	3.67E-07	7.00E-06	2.4584E-04
520735.58	4258551.94	12062.82494	0.10801	0.10632	0.10434	0.10999	2.29E-04	2.54E-07	2.18E-07	2.45E-07	2.17E-07	2.3023E-04
520744.3	4258424.43	12054.89005	0.1042	0.10582	0.10106	0.11008	2.29E-04	2.45E-07	2.17E-07	2.37E-07	2.17E-07	2.3006E-04
520765.1	4258637.45	12054.53176	0.10138	0.09593	0.09833	0.09887	2.29E-04	2.38E-07	1.97E-07	2.31E-07	1.95E-07	2.3000E-04
520732.82	4258512.58	12050.9731	0.10878	0.10846	0.10489	0.11248	2.29E-04	2.55E-07	2.22E-07	2.46E-07	2.21E-07	2.3001E-04
520760.02	4258362.25	12043.50338	0.09925	0.10265	0.09626	0.10649	2.29E-04	2.33E-07	2.11E-07	2.26E-07	2.10E-07	2.2980E-04
519949.73	4258579.91	12035.94659	0.34403	0.99217	0.38027	0.93661	2.29E-04	8.08E-07	2.03E-06	8.93E-07	1.84E-06	2.3436E-04
520756.6	4258379.12	12034.98197	0.10042	0.10327	0.09742	0.10718	2.29E-04	2.36E-07	2.12E-07	2.29E-07	2.11E-07	2.2965E-04
519860.38	4258763.36	12033.15617	0.2704	0.38503	0.2853	0.37436	2.29E-04	6.35E-07	7.90E-07	6.70E-07	7.37E-07	2.3156E-04
519822.8	4258883.48	12031.95823	0.25909	0.26212	0.26951	0.25579	2.29E-04	6.08E-07	5.38E-07	6.33E-07	5.04E-07	2.3099E-04
520731.16	4258503.45	12023.42572	0.10859	0.10845	0.10471	0.11257	2.29E-04	2.55E-07	2.22E-07	2.46E-07	2.22E-07	2.2949E-04
520731.51	4258494.32	12021.08317	0.10839	0.10848	0.10456	0.11269	2.28E-04	2.54E-07	2.22E-07	2.45E-07	2.22E-07	2.2944E-04
520040.11	4259424.96	12019.83999	5.41791	0.11475	7.71109	0.11235	2.28E-04	1.27E-05	2.35E-07	1.81E-05	2.21E-07	2.5975E-04
519826.08	4258867.46	11990.63807	0.25803	0.27332	0.26894	0.26678	2.28E-04	6.06E-07	5.61E-07	6.31E-07	5.25E-07	2.3024E-04
520753.24	4258396.18	11986.87575	0.10156	0.10382	0.09856	0.10784	2.28E-04	2.38E-07	2.13E-07	2.31E-07	2.12E-07	2.2874E-04
519890.86	4258692.16	11980.2727	0.28815	0.51762	0.30677	0.50077	2.28E-04	6.76E-07	1.06E-06	7.20E-07	9.86E-07	2.3117E-04
519993.89	4258423.14	11979.06136	0.24956	2.0554	0.26293	1.85559	2.28E-04	5.86E-07	4.22E-06	6.17E-07	3.65E-06	2.3677E-04
520740.96	4258441.53	11977.72258	0.10528	0.10645	0.102	0.1108	2.28E-04	2.47E-07	2.18E-07	2.39E-07	2.18E-07	2.2860E-04
520036.47	4258214.54	11970.51088	0.14315	5.01769	0.15057	4.1931	2.28E-04	3.36E-07	1.03E-05	3.53E-07	8.25E-06	2.4677E-04
520755.26	4258608.95	11965.70498	0.10355	0.09928	0.1004	0.1026	2.27E-04	2.43E-07	2.04E-07	2.36E-07	2.02E-07	2.2833E-04
519845.8	4258800.53	11955.20778	0.26243	0.33548	0.27579	0.32699	2.27E-04	6.16E-07	6.88E-07	6.47E-07	6.44E-07	2.2984E-04
520107.29	4258074.19	11954.78216	0.12027	11.53685	0.12202	13.28157	2.27E-04	2.82E-07	2.37E-05	2.86E-07	2.61E-05	2.7761E-04
520046.23	4258190.53	11953.07557	0.13827	6.79314	0.14553	5.38525	2.27E-04	3.25E-07	1.39E-05	3.42E-07	1.06E-05	2.5241E-04
520063.54	4258153.43	11946.84478	0.13191	16.02437	0.13786	9.43431	2.27E-04	3.10E-07	3.29E-05	3.24E-07	1.86E-05	2.7916E-04
520735.64	4258542.46	11942.77135	0.10785	0.10658	0.10414	0.11029	2.27E-04	2.53E-07	2.19E-07	2.44E-07	2.17E-07	2.2794E-04
520096.32	4258092.08	11940.37032	0.1227	18.25557	0.12531	18.34495	2.27E-04	2.88E-07	3.74E-05	2.94E-07	3.61E-05	3.0110E-04
520734.55	4258476.44	11938.22306	0.10737	0.10781	0.10371	0.11213	2.27E-04	2.52E-07	2.21E-07	2.43E-07	2.21E-07	2.2786E-04
520745.42	4258580.45	11935.09625	0.10577	0.10269	0.10243	0.10622	2.27E-04	2.48E-07	2.11E-07	2.40E-07	2.09E-07	2.2777E-04
520737.7	4258458.86	11934.55778	0.10636	0.10708	0.10287	0.11146	2.27E-04	2.50E-07	2.20E-07	2.42E-07	2.19E-07	2.2778E-04
520050.03	4259434.95	11918.96021	7.72817	0.11417	13.66492	0.11144	2.27E-04	1.81E-05	2.34E-07	3.21E-05	2.19E-07	2.7724E-04
520012.62	4258284.3	11913.56795	0.16185	2.90839	0.16831	2.58291	2.26E-04	3.80E-07	5.96E-06	3.95E-07	5.08E-06	2.3829E-04
519969.56	4258541.04	11908.73189	0.35359	1.31493	0.38941	1.21897	2.26E-04	8.30E-07	2.70E-06	9.14E-07	2.40E-06	2.3320E-04
520019.04	4258261.68	11906.96371	0.15451	3.3041	0.16106	2.9022	2.26E-04	3.63E-07	6.78E-06	3.78E-07	5.71E-06	2.3956E-04
519829.31	4258851.31	11903.54626	0.25654	0.28504	0.26784	0.2783	2.26E-04	6.02E-07	5.85E-07	6.29E-07	5.48E-07	2.2863E-04
520084.71	4259456.12	11881.74333	14.1073	0.11492	14.22784	0.11053	2.26E-04	3.31E-05	2.36E-07	3.34E-05	2.18E-07	2.9283E-04
519869.66	4258737.5	11873.47415	0.27288	0.42364	0.28903	0.41093	2.26E-04	6.41E-07	8.69E-07	6.79E-07	8.09E-07	2.2869E-04
519833.14	4258836.61	11867.27345	0.25664	0.29735	0.26844	0.29028	2.26E-04	6.03E-07	6.10E-07	6.30E-07	5.71E-07	2.2799E-04
519959.65	4258560.47	11864.04826	0.34905	1.13651	0.38439	1.06443	2.26E-04	8.19E-07	2.33E-06	9.02E-07	2.10E-06	2.3166E-04
520055.61	4258166.69	11852.96095	0.13345	9.9536	0.14	7.14562	2.25E-04	3.13E-07	2.04E-05	3.29E-07	1.41E-05	2.6043E-04
520035.69	4258232.98	11849.73804	0.10771	0.10679	0.10396	0.11054	2.25E-04	2.53E-07	2.19E-07	2.44E-07	2.18E-07	2.2618E-04
519917.12	4258636.77	11844.39598	0.30782	0.67588	0.33314	0.65201	2.25E-04	7.23E-07	1.39E-06	7.82E-07	1.28E-06	2.2931E-04
520765.16	4258627.97	11830.2323	0.10123	0.09621	0.0982	0.09926	2.25E-04	2.38E-07	1.97E-07	2.31E-07	1.95E-07	2.2573E-04
519993.89	4258398.88	11823.69401	0.22528	2.07028	0.23627	1.87393	2.25E-04	5.29E-07	4.25E-06	5.55E-07	3.69E-06	2.3377E-04
520029.64	4258227.34	11819.04909	0.14493	4.1947	0.15204	3.59212	2.25E-04	3.40E-07	8.60E-06	3.57E-07	7.07E-06	2.4103E-04
520751.09	4258416.4	11791.58106	0.10246	0.1039	0.09939	0.10805	2.24E-04	2.41E-07	2.13E-07	2.33E-07	2.13E-07	2.2504E-04
520735.74	4258523.5	11783.27108	0.10758	0.1069	0.10379	0.11073	2.24E-04	2.53E-07	2.19E-07	2.44E-07	2.18E-07	2.2491E-04
519907.12	4258655.32	11780.79762	0.29794	0.61008	0.31971	0.58999	2.24E-04	6.99E-07	1.25E-06	7.51E-07	1.16E-06	2.2779E-04
520040.13	4259434.96	11770.74179	5.49993	0.11284	7.79856	0.11049	2.24E-04	1.29E-05	2.31E-07	1.83E-05	2.17E-07	2.5541E-04
520745.48	4258570.96	11751.98623	0.10561	0.10299	0.10224	0.10652	2.23E-04	2.48E-07	2.11E-07	2.40E-07	2.10E-07	2.2429E-04
520763.45	4258371.26	11748.21916	0.0987	0.10147	0.09577	0.10526	2.23E-04	2.32E-07	2.08E-07	2.25E-07	2.07E-07	2.2418E-04
520074.81	4259456.13	11746.51704	14.42934	0.11358	25.77511	0.10977	2.23E-04	3.39E-05	2.33E-07	6.05E-05	2.16E-07	3.1812E-04
520755.32	4258599.47	11745.45988	0.1034	0.09957	0.10027	0.10294	2.23E-04	2.43E-07	2.04E-07	2.35E-07	2.03E-07	2.2414E-04
520097.47	4258084.16	11738.06705	0.12055	17.26476	0.12298	17.8146	2.23E-04	2.83E-07	3.54E-05	2.89E-07	3.51E-05	2.9417E-04
520013.32	4258274.02	11722.50018	0.15701	2.9455	0.16327	2.61488	2.23E-04	3.69E-07	6.04E-06	3.83E-07	5.15E-06	2.3476E-04
519990.05	4258456.74	11716.47688	0.28118	1.90516	0.30079	1.7227	2.23E-04	6.65E-07	3.91E-06	7.06E-07	3.39E-06	2.3138E-04
520760.05	4258388.18	11707.82395	0.0998	0.1021	0.0969	0.10596	2.23E-04	2.34E-07	2.09E-07	2.27E-07	2.09E-07	2.2342E-04
519836.4	4258820.55	11707.00572	0.25461	0.31049	0.26678	0.30301	2.23E-04	5.98E-07	6.37E-07	6.26E-07	5.96E-07	2.2499E-04
520747.7	4258433.35	11705.48582	0.1035	0.10462	0.10035	0.10884	2.23E-04	2.43E-07	2.15E-07	2.36E-07	2.14E-07	2.2341E-04
519884.52	4258701	11704.51647	0.27958	0.4906	0.29732	0.47487	2.22E-04	6.56E-07	1.01E-06	6.98E-07	9.35E-07	2.2578E-04
520036.96	4258204.35	11696.79983	0.1392	5.07521	0.14642	4.23562	2.22E-04	3.27E-07	1.04E-05	3.44E-07	8.34E-06	2.4175E-04
520019.75	4258251.4	11691.25483	0.15006	3.35222	0.15652	2.94191	2.22E-04	3.52E-07	6.88E-06	3.67E-07	5.79E-06	2.3562E-04
519853.81	4258771.61	11685.86542	0.26156	0.36724	0.27541	0.35745	2.22E-04	6.14E-07	7.53E-07	6.47E-07	7.04E-07	2.2484E-04
519897.12	4258673.87	11681.57349	0.28844	0.55387	0.30758	0.53619	2.22E-04	6.77E-07	1.14E-06	7.22E-07	1.06E-06	2.2564E-04
520050.05	4259444.95	11674.51042	7.86108	0.1123	13.94759	0.10964	2.22E-04	1.85E-05	2.30E-07	3.27E-05	2.16E-07	2.7356E-04
519979.44	4258511.9	11670.54364	0.33868	1.55357	0.37008	1.42282	2.22E-04	7.95E-07	3.19E-06	8.69E-07	2.80E-06	2.2949E-04
520738.02	4258485.57	11659.7419	0.10656	0.1067	0.10289	0.11086	2.22E-04	2.50E-07	2.19E-07	2.42E-07	2.18E-07	2.2256E-04
520046.59	4258180.4	11659.59405	0.13452	6.86117	0.14151	5.4277	2.22E-04	3.16E-07	1.41E-05	3.32E-07	1.07E-05	2.4703E-04
520756.72	4258405.31	11647.61068	0.10094	0.10253	0.09796	0.10655	2.21E-04	2.37E-07	2.10E-07	2.30E-07	2.10E-07	2.2229E-04
520744.38	4258450.51	11639.39312	0.10454	0.10529	0.10123	0.10956	2.21E-04	2.45E-07	2.16E-07	2.38E-07	2.16E-07	2.2216E-04
520063.76	4258143.35	11631.13195	0.1284	16.22394	0.13409	9.4817	2.21E-04	3.01E-07	3.33E-05	3.15E-07	1.87E-05	2.7364E-04
520084.73	4259466.12	11630.84794	13.77693	0.11304	13.88689	0.10876	2.21E-04	3.23E-05	2.32E-07	3.28E-05	2.14E-07	2.8671E-04
520741.15	4258467.91	11617.89946	0.10556	0.10599	0.10206	0.11023	2.21E-04	2.48E-07	2.17E-07	2.40E-07	2.17E-07	2.2176E-04
519848.63	4258783.24	11616.02611	0.25798	0.35085	0.27128	0.34179	2.21E-04	6.06E-07	7.20E-07	6.37E-07	6.73E-07	2.2343E-04
520107.32	4258064.19	11614.82128	0.11726	11.54345	0.1189	13.28956	2.21E-04	2.75E-07	2.37E-05	2.79E-07	2.62E-05	2.7117E-04
520765.21	4258618.49	11607.65013	0.10109	0.0965	0.09808	0.09965	2.21E-04	2.37E-07	1.98E-07	2.30E-07	1.96E-07	2.2155E-04
520745.53	4258561.48	11591.58988	0.10546	0.1033	0.10205	0.10682	2.20E-04	2.48E-07	2.12E-07	2.40E-07	2.10E-07	2.2124E-04
519819.13	4258874.75	11572.79623	0.24826	0.263	0.25817	0.25691	2.20E-04	5.83E-07	5.39E-07	6.06E-07	5.06E-07	2.2221E-04
519928.85	4258609.09	11571.9195	0.31649	0.78265	0.34614	0.75038	2.20E-04	7.43E-07	1.61E-06	8.13E-07	1.48E-06	2.2460E-04
519863.19	4258746.03	11564.74219	0.26447	0.40319	0.27958	0.39154	2.20E-04	6.21E-07	8.27E-07	6.56E-07	7.71E-07	2.2270E-04
520001.12	4258319.01	11561.47168	0.17311	2.35762	0.18013	2.12849	2.20E-04	4.06E-07	4.84E-06	4.23E-07	4.19E-06	2.2962E-04
519990.38	4258431.67	11559.43407	0.25332	1.99677	0.26699	1.75597	2.20E-04	5.95E-07	3.97E-06	6.27E-07	3.46E-06	2.2837E-04
520755.37	4258589.98	11538.22886	0.10326	0.09985	0.10013	0.10325	2.19E-04	2.42E-07	2.05E-07	2.35E-07	2.03E-07	2.2021E-04
520040.15	4259444.96	11529.83938	5.58981	0.11098	7.89275	0.10869	2.19E-04	1.31E-05	2.28E-07	1.85E-05	2.14E-07	2.5126E-04
520074.83	4259466.13	11500.63861	14.3175	0.11173	25.2064	0.10801	2.19E-04	3.36E-05	2.29E-07	5.92E-05	2.13E-07	3.1184E-04
519822.39	4258858.67	11494.11395	0.24695	0.27402	0.2573	0.26774	2.18E-04	5.80E-07	5.62E-07	6.04E-07	5.27E-07	2.2076E-04
520054.59	4258157.12	11474.88823	0.1295	9.45464	0.13587	6.8905	2.18E-04	3.04E-07	1.94E-05	3.19E-07	1.36E-05	2.5169E-04
520020.39	4258241.14	11469.35438	0.14581	3.38971	0.15216	2.9737	2.18E-04	3.42E-07	6.95E-06	3.57E-07	5.85E-06	2.3152E-04
520002.19	4258308.58	11466.04232	0.16786	2.40161	0.1745	2.16658	2.18E-04	3.94E-07	4.93E-06	4.10E-07	4.26E-06	2.2794E-04
520745.58	4258552	11454.28654	0.10533	0.10354	0.10185	0.10707	2.18E-04	2.47E-07	2.12E-07	2.39E-07	2.11E-07	2.1863E-04
520754.47	4258425.27	11452.73628	0.10179	0.10273	0.09873	0.10686	2.18E-04	2.39E-07	2.11E-07	2.32E-07	2.10E-07	2.1859E-04
519994.93	4258351.52	11446.81165	0.18874	2.12186	0.19687	1.92717	2.18E-04	4.43E-07	4.35E-06	4.62E-07	3.79E-06	2.2663E-04
519939.77	4258589.65	11446.76697	0.32451	0.88393	0.35707	0.84077	2.18E-04	7.62E-07	1.81E-06	8.38E-07	1.66E-06	2.2265E-04
520766.88	4258380.26	11443.98906	0.09812	0.10033	0.09527	0.10407	2.18E-04	2.30E-07	2.06E-07	2.24E-07	2.05E-07	2.1839E-04
520740.81	4258512.96	11439.92732	0.10613	0.10549	0.1024	0.10936	2.17E-04	2.49E-07	2.16E-07	2.40E-07	2.15E-07	2.1837E-04
519993.61	4258362.05	11436.14783	0.19491	2.07488	0.20347	1.88569	2.17E-04	4.58E-07	4.26E-06	4.78E-07	3.71E-06	2.2628E-04
520037.42	4258194.17	11428.96272	0.13541	5.13176	0.14247	4.27669	2.17E-04	3.18E-07	1.05E-05	3.34E-07	8.42E-06	2.3684E-04
520050.06	4259454.95	11427.61853	8.09177	0.11042	14.20794	0.10783	2.17E-04	1.90E-05	2.26E-07	3.34E-05	2.12E-07	2.7001E-04
519996.08	4258341.06	11419.63228	0.18276	2.16383	0.19048	1.96419	2.17E-04	4.29E-07	4.44E-06	4.47E-07	3.87E-06	2.2625E-04
520741.16	4258503.83	11413.85342	0.10594	0.10552	0.10223	0.10946	2.17E-04	2.49E-07	2.16E-07	2.40E-07	2.15E-07	2.1788E-04
519878.13	4258709.69	11413.29674	0.27083	0.46558	0.28794	0.45079	2.17E-04	6.36E-07	9.55E-07	6.76E-07	8.87E-07	2.2010E-04
520741.5	4258494.69	11412.88106	0.10576	0.10558	0.10209	0.1096	2.17E-04	2.48E-07	2.17E-07	2.40E-07	2.16E-07	2.1786E-04
520097.5	4258074.16	11409.83044	0.11752	17.28431	0.11981	17.82044	2.17E-04	2.76E-07	3.54E-05	2.81E-07	3.51E-05	2.8797E-04
520027.51	4258218.24	11395.77086	0.13996	3.97313	0.14671	3.42692	2.17E-04	3.29E-07	8.15E-06	3.44E-07	6.75E-06	2.3218E-04
520763.5	4258397.25	11392.10153	0.09923	0.10085	0.09635	0.10472	2.17E-04	2.33E-07	2.07E-07	2.26E-07	2.06E-07	2.1742E-04
520765.26	4258609	11389.44132	0.10095	0.0968	0.09798	0.10002	2.16E-04	2.37E-07	1.99E-07	2.30E-07	1.97E-07	2.1736E-04
520084.75	4259476.12	11387.90235	13.65237	0.11118	13.6865	0.10701	2.16E-04	3.21E-05	2.28E-07	3.21E-05	2.11E-07	2.8108E-04
519992.08	4258372.67	11380.50649	0.20126	2.02181	0.21023	1.83931	2.16E-04	4.72E-07	4.15E-06	4.94E-07	3.62E-06	2.2506E-04
520046.92	4258170.27	11374.12586	0.13091	6.92348	0.13767	5.46662	2.16E-04	3.07E-07	1.42E-05	3.23E-07	1.08E-05	2.4179E-04
520751.09	4258442.28	11373.04022	0.1028	0.10346	0.09962	0.10764	2.16E-04	2.41E-07	2.12E-07	2.34E-07	2.12E-07	2.1708E-04
519825.58	4258842.46	11367.70512	0.24516	0.28564	0.25591	0.27909	2.16E-04	5.76E-07	5.86E-07	6.01E-07	5.49E-07	2.1839E-04
519986.47	4258465.43	11361.43497	0.28741	1.79455	0.3063	1.62836	2.16E-04	6.75E-07	3.68E-06	7.19E-07	3.21E-06	2.2424E-04
519997.09	4258330.66	11361.22735	0.17701	2.2015	0.18432	1.99732	2.16E-04	4.16E-07	4.52E-06	4.33E-07	3.93E-06	2.2525E-04
520003.15	4258298.19	11348.32202	0.16283	2.4407	0.1691	2.20078	2.16E-04	3.82E-07	5.01E-06	3.97E-07	4.33E-06	2.2583E-04
520755.42	4258580.5	11346.70541	0.10313	0.10011	0.09998	0.10351	2.16E-04	2.42E-07	2.05E-07	2.35E-07	2.04E-07	2.1657E-04
520745.64	4258542.52	11340.92501	0.10519	0.10376	0.10166	0.10733	2.16E-04	2.47E-07	2.13E-07	2.39E-07	2.11E-07	2.1648E-04
520744.6	4258476.96	11331.1041	0.10477	0.10492	0.10126	0.10902	2.15E-04	2.46E-07	2.15E-07	2.38E-07	2.15E-07	2.1630E-04
520063.98	4258133.27	11330.64887	0.12505	16.43267	0.13048	9.54957	2.15E-04	2.94E-07	3.37E-05	3.06E-07	1.88E-05	2.6848E-04
520747.8	4258459.5	11327.87989	0.10381	0.10414	0.10045	0.10833	2.15E-04	2.44E-07	2.14E-07	2.36E-07	2.13E-07	2.1623E-04
519969.52	4258531.34	11324.73535	0.33839	1.32981	0.37092	1.23227	2.15E-04	7.94E-07	2.73E-06	8.71E-07	2.43E-06	2.2208E-04
519829.52	4258828.01	11314.48529	0.24533	0.29782	0.25654	0.29088	2.15E-04	5.76E-07	6.11E-07	6.02E-07	5.73E-07	2.1743E-04
520760.19	4258414.43	11308.97063	0.1003	0.1013	0.09734	0.10531	2.15E-04	2.35E-07	2.08E-07	2.29E-07	2.07E-07	2.1584E-04
519979.4	4258502.21	11307.06942	0.32335	1.56857	0.35147	1.43612	2.15E-04	7.59E-07	3.22E-06	8.25E-07	2.83E-06	2.2256E-04
519872.28	4258719.71	11301.42977	0.26583	0.44272	0.28146	0.42944	2.15E-04	6.24E-07	9.08E-07	6.61E-07	8.45E-07	2.1786E-04
520040.16	4259454.96	11293.96818	5.68902	0.10917	7.99091	0.10693	2.15E-04	1.34E-05	2.24E-07

519818.69	4258849.89	10991.9581	0.23633	0.27455	0.24619	0.26845	2.09E-04	5.55E-07	5.63E-07	5.78E-07	5.28E-07	2.1116E-04
520765.37	4258590.04	10982.86187	0.10069	0.09736	0.09775	0.10064	2.09E-04	2.36E-07	2.00E-07	2.29E-07	1.98E-07	2.0963E-04
520763.67	4258429.56	10976.73472	0.09963	0.10016	0.09668	0.10414	2.09E-04	2.34E-07	2.05E-07	2.27E-07	2.05E-07	2.0952E-04
519850.14	4258762.77	10972.44601	0.24861	0.36636	0.26133	0.35678	2.09E-04	5.84E-07	7.51E-07	6.14E-07	7.02E-07	2.1122E-04
520035.22	4259466.2	10971.5653	4.9616	0.10665	6.60344	0.10459	2.09E-04	1.16E-05	2.19E-07	1.55E-05	2.06E-07	2.3613E-04
519986.86	4258391.7	10939.36884	0.21056	1.85797	0.22008	1.69827	2.08E-04	4.94E-07	3.81E-06	5.17E-07	3.34E-06	2.1610E-04
520106.6	4258043.98	10933.64853	0.11136	11.88598	0.11285	13.52951	2.08E-04	2.61E-07	2.44E-05	2.65E-07	2.66E-05	2.5937E-04
520084.78	4259496.12	10925.16323	12.91227	0.10767	12.93859	0.10368	2.08E-04	3.03E-05	2.21E-07	3.04E-05	2.04E-07	2.6878E-04
520028.61	4258197.81	10921.1159	0.13257	4.06418	0.13911	3.49663	2.08E-04	3.11E-07	8.34E-06	3.27E-07	6.88E-06	2.2345E-04
519844.85	4258774.14	10914.81807	0.2451	0.35033	0.25735	0.34141	2.07E-04	5.75E-07	7.18E-07	6.04E-07	6.72E-07	2.1004E-04
520055.16	4258136.91	10910.03442	0.12288	9.65391	0.12877	6.98286	2.07E-04	2.88E-07	1.98E-05	3.02E-07	1.37E-05	2.4152E-04
520038.24	4258173.86	10909.75408	0.12835	5.2302	0.13504	4.34501	2.07E-04	3.01E-07	1.07E-05	3.17E-07	8.55E-06	2.2727E-04
519928.81	4258599.39	10907.35103	0.30641	0.79332	0.33505	0.75982	2.07E-04	7.19E-07	1.63E-06	7.87E-07	1.50E-06	2.1196E-04
520755.58	4258552.06	10891.38907	0.10274	0.10089	0.09945	0.10429	2.07E-04	2.41E-07	2.07E-07	2.33E-07	2.05E-07	2.0791E-04
520011.67	4258244.74	10882.57233	0.14255	2.84	0.14808	2.53522	2.07E-04	3.35E-07	5.82E-06	3.48E-07	4.99E-06	2.1836E-04
520045.14	4259476.18	10881.7947	6.88458	0.10619	10.69573	0.10386	2.07E-04	1.62E-05	2.18E-07	2.51E-05	2.04E-07	2.4854E-04
520750.81	4258513.33	10873.8756	0.10356	0.10271	0.1	0.10641	2.07E-04	2.43E-07	2.11E-07	2.35E-07	2.09E-07	2.0759E-04
519969.48	4258521.64	10859.61698	0.32418	1.34376	0.3537	1.24481	2.06E-04	7.61E-07	2.76E-06	8.30E-07	2.45E-06	2.1322E-04
520751.15	4258504.2	10849.85966	0.10339	0.10273	0.09984	0.1065	2.06E-04	2.43E-07	2.11E-07	2.34E-07	2.10E-07	2.0713E-04
520751.49	4258495.07	10848.92829	0.10322	0.10279	0.09971	0.10662	2.06E-04	2.42E-07	2.11E-07	2.34E-07	2.10E-07	2.0712E-04
520018.55	4258221.93	10840.01517	0.13683	3.24406	0.14273	2.85985	2.06E-04	3.21E-07	6.65E-06	3.35E-07	5.63E-06	2.1899E-04
520773.74	4258398.27	10838.64	0.09698	0.098	0.09423	0.10174	2.06E-04	2.28E-07	2.01E-07	2.21E-07	2.00E-07	2.0687E-04
519821.86	4258833.61	10830.06899	0.2343	0.28607	0.24455	0.27962	2.06E-04	5.50E-07	5.87E-07	5.74E-07	5.50E-07	2.0812E-04
519880.82	4258692.07	10826.97524	0.26444	0.48514	0.28031	0.47075	2.06E-04	6.21E-07	9.95E-07	6.58E-07	9.27E-07	2.0900E-04
520761.22	4258443	10810.47096	0.1004	0.1006	0.09734	0.10461	2.05E-04	2.36E-07	2.06E-07	2.29E-07	2.06E-07	2.0636E-04
520074.88	4259496.13	10808.20329	15.68911	0.10645	22.17807	0.10298	2.05E-04	3.68E-05	2.18E-07	5.21E-05	2.03E-07	2.9477E-04
520765.42	4258580.56	10800.78768	0.10056	0.09766	0.09762	0.10094	2.05E-04	2.36E-07	2.00E-07	2.29E-07	1.99E-07	2.0617E-04
519979.32	4258482.81	10795.64776	0.29536	1.59577	0.31754	1.45977	2.05E-04	6.93E-07	3.27E-06	7.45E-07	2.87E-06	2.1279E-04
519983.36	4258448.73	10794.27214	0.26067	1.72826	0.2754	1.57766	2.05E-04	6.12E-07	3.54E-06	6.47E-07	3.11E-06	2.1309E-04
519859.47	4258737.04	10786.78924	0.25076	0.40115	0.26451	0.3899	2.05E-04	5.89E-07	8.23E-07	6.21E-07	7.68E-07	2.0784E-04
520755.64	4258542.58	10784.31248	0.10261	0.10111	0.09927	0.10453	2.05E-04	2.41E-07	2.07E-07	2.33E-07	2.06E-07	2.0588E-04
519939.73	4258579.95	10772.59679	0.31305	0.89514	0.3427	0.85118	2.05E-04	7.35E-07	1.84E-06	8.05E-07	1.68E-06	2.0982E-04
520754.64	4258477.47	10772.49718	0.10229	0.10208	0.09891	0.10601	2.05E-04	2.40E-07	2.09E-07	2.32E-07	2.09E-07	2.0566E-04
519992.24	4258322.68	10771.63474	0.16858	2.03556	0.17524	1.85996	2.05E-04	3.96E-07	4.17E-06	4.11E-07	3.66E-06	2.1339E-04
520757.89	4258460.12	10768.89645	0.10138	0.10122	0.09813	0.10523	2.05E-04	2.38E-07	2.08E-07	2.30E-07	2.07E-07	2.0558E-04
519825.91	4258819.42	10761.01318	0.23451	0.29814	0.24524	0.29122	2.05E-04	5.51E-07	6.11E-07	5.76E-07	5.73E-07	2.0686E-04
520770.4	4258415.37	10753.70131	0.09799	0.09849	0.09516	0.10235	2.04E-04	2.30E-07	2.02E-07	2.23E-07	2.01E-07	2.0527E-04
520035.24	4259476.2	10753.56069	5.00497	0.10501	6.70911	0.10299	2.04E-04	1.18E-05	2.15E-07	1.58E-05	2.03E-07	2.3232E-04
520046	4258150.68	10750.72962	0.12375	6.66743	0.13012	5.30283	2.04E-04	2.91E-07	1.37E-05	3.05E-07	1.04E-05	2.2906E-04
520096.78	4258053.95	10750.35762	0.11157	18.01865	0.11367	18.14535	2.04E-04	2.62E-07	3.70E-05	2.67E-07	3.57E-05	2.7755E-04
519993.42	4258312.2	10719.6628	0.16365	2.07438	0.16998	1.89404	2.04E-04	3.84E-07	4.25E-06	3.99E-07	3.73E-06	2.1253E-04
520755.69	4258533.09	10701.34579	0.1025	0.10128	0.09911	0.10474	2.03E-04	2.41E-07	2.08E-07	2.33E-07	2.06E-07	2.0430E-04
520061.5	4258116.61	10697.18628	0.11884	13.65703	0.12402	8.64626	2.03E-04	2.79E-07	2.80E-05	2.91E-07	1.70E-05	2.4893E-04
520012.34	4258234.48	10694.52747	0.13866	2.86959	0.1441	2.5603	2.03E-04	3.26E-07	5.89E-06	3.38E-07	5.04E-06	2.1487E-04
519983.52	4258424.08	10688.57444	0.23499	1.75046	0.24662	1.60169	2.03E-04	5.52E-07	3.59E-06	5.79E-07	3.15E-06	2.1104E-04
520029.1	4258187.62	10688.22207	0.1291	4.10761	0.13555	3.52922	2.03E-04	3.03E-07	8.42E-06	3.18E-07	6.95E-06	2.1916E-04
520045.16	4259486.18	10665.26858	7.02856	0.10452	11.02098	0.10225	2.03E-04	1.65E-05	2.14E-07	2.59E-05	2.01E-07	2.4552E-04
520082.08	4259506.95	10656.25792	13.40689	0.10552	14.06741	0.10178	2.03E-04	3.15E-05	2.16E-07	3.30E-05	2.00E-07	2.6747E-04
520767.14	4258432.68	10654.39551	0.09893	0.09911	0.096	0.10304	2.03E-04	2.32E-07	2.03E-07	2.25E-07	2.03E-07	2.0338E-04
519907.12	4258636.77	10652.02122	0.28198	0.62453	0.30367	0.60476	2.02E-04	6.62E-07	1.28E-06	7.13E-07	1.19E-06	2.0632E-04
519994.47	4258301.78	10643.77811	0.15889	2.10997	0.16491	1.92504	2.02E-04	3.73E-07	4.33E-06	3.87E-07	3.79E-06	2.1120E-04
520755.74	4258523.61	10643.00193	0.10241	0.10135	0.09897	0.10488	2.02E-04	2.40E-07	2.08E-07	2.32E-07	2.06E-07	2.0319E-04
520106.64	4258033.98	10640.27187	0.10872	11.88694	0.11013	13.52701	2.02E-04	2.55E-07	2.44E-05	2.59E-07	2.66E-05	2.5377E-04
520055.42	4258126.82	10640.112	0.11978	9.74745	0.12545	7.01866	2.02E-04	2.81E-07	2.00E-05	2.95E-07	1.38E-05	2.3663E-04
520765.48	4258571.08	10636.57503	0.10045	0.09792	0.09747	0.10119	2.02E-04	2.36E-07	2.01E-07	2.29E-07	1.99E-07	2.0305E-04
520019.2	4258211.68	10635.23792	0.13323	3.28858	0.13909	2.89728	2.02E-04	3.13E-07	6.74E-06	3.27E-07	5.70E-06	2.1524E-04
519811.79	4258857.29	10635.08246	0.22796	0.26414	0.23698	0.25845	2.02E-04	5.35E-07	5.42E-07	5.56E-07	5.09E-07	2.0430E-04
519959.56	4258541.08	10634.53003	0.32166	1.16311	0.35129	1.08859	2.02E-04	7.55E-07	2.39E-06	8.25E-07	2.14E-06	2.0825E-04
519838.31	4258782.47	10628.09417	0.23761	0.33507	0.24905	0.32682	2.02E-04	5.58E-07	6.87E-07	5.85E-07	6.43E-07	2.0449E-04
519897.12	4258655.32	10616.61773	0.27333	0.56668	0.29202	0.55002	2.02E-04	6.42E-07	1.16E-06	6.86E-07	1.08E-06	2.0537E-04
519987.55	4258344.58	10613.32298	0.17786	1.89087	0.18501	1.73451	2.02E-04	4.18E-07	3.88E-06	4.34E-07	3.41E-06	2.0988E-04
520001.27	4258269.01	10603.63537	0.14734	2.35602	0.15261	2.13509	2.02E-04	3.46E-07	4.83E-06	3.58E-07	4.20E-06	2.1130E-04
519986.31	4258355.08	10601.84911	0.18343	1.85405	0.1909	1.70155	2.02E-04	4.31E-07	3.80E-06	4.48E-07	3.35E-06	2.0955E-04
519983.45	4258400	10601.2884	0.21338	1.76232	0.22303	1.61602	2.02E-04	5.01E-07	3.61E-06	5.24E-07	3.18E-06	2.0933E-04
519988.65	4258334.14	10594.41997	0.17247	1.92421	0.17931	1.76432	2.01E-04	4.05E-07	3.95E-06	4.21E-07	3.47E-06	2.0963E-04
519874.46	4258700.84	10575.77307	0.25635	0.46102	0.27196	0.44715	2.01E-04	6.02E-07	9.46E-07	6.38E-07	8.80E-07	2.0409E-04
520036.69	4258164.51	10563.71496	0.1245	4.99211	0.13097	4.17592	2.01E-04	2.92E-07	1.02E-05	3.07E-07	8.22E-06	2.1986E-04
519887.12	4258673.87	10555.25032	0.26503	0.51696	0.28131	0.50225	2.01E-04	6.22E-07	1.06E-06	6.60E-07	9.89E-07	2.0397E-04
519984.87	4258365.66	10551.81349	0.18914	1.81234	0.19695	1.66432	2.01E-04	4.44E-07	3.72E-06	4.62E-07	3.28E-06	2.0847E-04
519995.42	4258291.4	10547.68496	0.15431	2.14017	0.16	1.9521	2.00E-04	3.62E-07	4.39E-06	3.76E-07	3.84E-06	2.0946E-04
520072.18	4259506.97	10542.71872	14.75712	0.1043	25.19065	0.10106	2.00E-04	3.46E-05	2.14E-07	5.91E-05	1.99E-07	2.9460E-04
520035.26	4259486.2	10541.93905	5.07758	0.10338	6.82972	0.10139	2.00E-04	1.19E-05	2.12E-07	1.60E-05	2.00E-07	2.2875E-04
519949.65	4258560.52	10539.86989	0.3147	1.01372	0.34318	0.95744	2.00E-04	7.39E-07	2.08E-06	8.06E-07	1.88E-06	2.0585E-04
520777.17	4258407.27	10536.71452	0.09639	0.09686	0.09366	0.1006	2.00E-04	2.26E-07	1.99E-07	2.20E-07	1.98E-07	2.0113E-04
520758.06	4258486.46	10535.17352	0.10153	0.10109	0.09816	0.10489	2.00E-04	2.38E-07	2.07E-07	2.30E-07	2.06E-07	2.0114E-04
520062	4258109.76	10534.94741	0.11695	14.08256	0.12197	8.78526	2.00E-04	2.75E-07	2.89E-05	2.86E-07	1.73E-05	2.4699E-04
519829.12	4258803.25	10534.87652	0.2321	0.31072	0.24293	0.30336	2.00E-04	5.45E-07	6.37E-07	5.70E-07	5.97E-07	2.0260E-04
519852.99	4258745.53	10525.48493	0.24335	0.38257	0.25633	0.37215	2.00E-04	5.71E-07	7.85E-07	6.02E-07	7.33E-07	2.0276E-04
520764.59	4258451.87	10519.03891	0.09971	0.09955	0.09662	0.10348	2.00E-04	2.34E-07	2.04E-07	2.27E-07	2.04E-07	2.0082E-04
520761.29	4258469.05	10498.70058	0.10064	0.10026	0.09738	0.10415	2.00E-04	2.36E-07	2.06E-07	2.29E-07	2.05E-07	2.0044E-04
520046.34	4258140.55	10497.27864	0.12064	6.73129	0.1268	5.33984	2.00E-04	2.83E-07	1.38E-05	2.98E-07	1.05E-05	2.2443E-04
520765.53	4258561.6	10492.73178	0.10034	0.09815	0.0973	0.10141	1.99E-04	2.36E-07	2.01E-07	2.28E-07	2.00E-07	2.0031E-04
519814.99	4258841.1	10486.96361	0.22617	0.27495	0.23539	0.26894	1.99E-04	5.31E-07	5.64E-07	5.53E-07	5.29E-07	2.0152E-04
519969.44	4258511.95	10479.55788	0.31066	1.35671	0.33741	1.25662	1.99E-04	7.29E-07	2.78E-06	7.92E-07	2.47E-06	2.0598E-04
520002.15	4258258.66	10465.7646	0.14329	2.39178	0.14837	2.16553	1.99E-04	3.36E-07	4.91E-06	3.48E-07	4.26E-06	2.0879E-04
519979.85	4258457.26	10464.44738	0.24423	1.63585	0.27996	1.49764	1.99E-04	6.20E-07	3.36E-06	6.57E-07	2.95E-06	2.0649E-04
520096.82	4258043.95	10464.23976	0.10891	18.03618	0.11091	17.95999	1.99E-04	2.56E-07	3.70E-05	2.60E-07	3.54E-05	2.7177E-04
519868.49	4258710.57	10461.93637	0.25126	0.43893	0.26568	0.42624	1.99E-04	5.90E-07	9.00E-07	6.24E-07	8.39E-07	2.0182E-04
520029.55	4258177.44	10458.05669	0.12578	4.14291	0.13211	3.55467	1.99E-04	2.95E-07	8.50E-06	3.10E-07	7.00E-06	2.1489E-04
520045.18	4259496.18	10455.25736	7.16622	0.1029	11.48355	0.10067	1.99E-04	1.68E-05	2.11E-07	2.70E-05	1.98E-07	2.4293E-04
520082.1	4259516.95	10444.02112	13.05274	0.10388	13.52034	0.10022	1.99E-04	3.06E-05	2.13E-07	3.17E-05	1.97E-07	2.6132E-04
520773.85	4258424.44	10439.01492	0.09733	0.09746	0.09452	0.10128	1.98E-04	2.28E-07	2.00E-07	2.22E-07	1.99E-07	1.9928E-04
519996.27	4258281.06	10435.60227	0.14992	2.16925	0.15531	1.97764	1.98E-04	3.52E-07	4.45E-06	3.65E-07	3.89E-06	2.0742E-04
520019.8	4258201.44	10424.14289	0.12973	3.31428	0.13554	2.91303	1.98E-04	3.05E-07	6.80E-06	3.18E-07	5.73E-06	2.1130E-04
519919.85	4258609.13	10408.39853	0.28969	0.7171	0.31466	0.69075	1.98E-04	6.80E-07	1.47E-06	7.39E-07	1.36E-06	2.0209E-04
520781.19	4258599.97	10370.77127	0.0969	0.09327	0.09421	0.09637	1.97E-04	2.27E-07	1.91E-07	2.21E-07	1.90E-07	1.9796E-04
520765.58	4258552.11	10369.38629	0.10023	0.09836	0.09713	0.10162	1.97E-04	2.35E-07	2.02E-07	2.28E-07	2.00E-07	1.9797E-04
520106.67	4258023.98	10356.90929	0.10619	11.89394	0.10752	13.4786	1.97E-04	2.49E-07	2.44E-05	2.52E-07	2.65E-05	2.4829E-04
520760.8	4258513.71	10349.3448	0.10108	0.10006	0.09769	0.1036	1.97E-04	2.37E-07	2.05E-07	2.29E-07	2.04E-07	1.9760E-04
520770.62	4258441.81	10346.09765	0.09822	0.09809	0.09529	0.10195	1.97E-04	2.31E-07	2.01E-07	2.24E-07	2.01E-07	1.9752E-04
520035.28	4259496.2	10336.33645	5.16322	0.10178	6.98422	0.09984	1.96E-04	1.21E-05	2.09E-07	1.64E-05	1.97E-07	2.2540E-04
520072.2	4259516.97	10334.70885	14.37419	0.1027	23.54454	0.09953	1.96E-04	3.37E-05	2.11E-07	5.53E-05	1.96E-07	2.8587E-04
520037.12	4258154.35	10329.10641	0.12137	5.04232	0.1277	4.21132	1.96E-04	2.85E-07	1.03E-05	3.00E-07	8.29E-06	2.1555E-04
519980.06	4258432.48	10327.91799	0.23809	1.65945	0.25	1.5232	1.96E-04	5.59E-07	3.40E-06	5.87E-07	3.00E-06	2.0386E-04
520761.14	4258504.58	10326.32292	0.10093	0.10006	0.09775	0.10366	1.96E-04	2.37E-07	2.05E-07	2.29E-07	2.04E-07	1.9716E-04
520761.49	4258495.44	10324.6985	0.10077	0.10008	0.09742	0.10375	1.96E-04	2.37E-07	2.05E-07	2.29E-07	2.04E-07	1.9713E-04
520002.95	4258248.34	10317.26396	0.13941	2.4217	0.14432	2.19158	1.96E-04	3.27E-07	4.97E-06	3.39E-07	4.31E-06	2.0606E-04
520009.59	4258225.63	10303.97238	0.13381	2.71691	0.13889	2.43628	1.96E-04	3.14E-07	5.57E-06	3.26E-07	4.80E-06	2.0687E-04
519929.77	4258589.69	10299.41785	0.2967	0.80389	0.32387	0.76903	1.96E-04	6.97E-07	1.65E-06	7.60E-07	1.51E-06	2.0039E-04
519818.14	4258824.77	10292.5285	0.22395	0.28628	0.2337	0.27986	1.96E-04	5.26E-07	5.87E-07	5.49E-07	5.51E-07	1.9785E-04
519846.47	4258753.92	10272.66861	0.23627	0.36519	0.24831	0.35564	1.95E-04	5.55E-07	7.49E-07	5.83E-07	7.00E-07	1.9785E-04
520765.64	4258542.63	10267.75417	0.10013	0.09854	0.09697	0.10182	1.95E-04	2.35E-07	2.02E-07	2.28E-07	2.00E-07	1.9604E-04
519862.15	4258719.38	10258.22028	0.24466	0.41795	0.25808	0.4063	1.95E-04	5.74E-07	8.57E-07	6.06E-07	8.00E-07	1.9783E-04
520764.68	4258477.97	10251.97358	0.09988	0.09938	0.09665	0.10313	1.95E-04	2.34E-07	2.04E-07	2.27E-07	2.03E-07	1.9574E-04
520046.65	4258130.44	10250.01371	0.11765	6.78975	0.12362	5.37168	1.95E-04	2.76E-07	1.39E-05	2.90E-07	1.06E-05	2.1990E-04
520767.97	4258460.73	10246.91772	0.09901	0.09856	0.0959	0.10239	1.95E-04	2.32E-07	2.02E-07	2.25E-07	2.02E-07	1.9564E-04
520082.12	4259526.95	10237.74045	12.93918	0.10227	12.98519	0.0987	1.95E-04	3.04E-05	2.10E-07	3.05E-05	1.94E-07	2.5587E-04
519841.08	4258765.04	10233.92164	0.23305	0.34921	0.24424	0.34053	1.95E-04	5.47E-07	7.16E-07	5.73E-07	6.70E-07	1.9704E-04
520780.59	4258416.28	10233.32037	0.09575	0.09583	0.09307	0.09954	1.95E-04	2.25E-07	1.97E-07	2.18E-07	1.96E-07	1.9535E-04
520020.35	4258191.23	10223.83649	0.12644	3.35863	0.13221	2.95208	1.94E-04	2.97E-07	6.89E-06	3.10E-07	5.81E-06	2.0764E-04
519822.29	4258810.82	10212.61565	0.22424	0.2881	0.23433	0.29123	1.94E-04	5.26E-07	6.11E-07	5.50E-07	5.73E-07	1.9638E-04
520042.48	4259507.02	10203.14337	6.67455	0.10088	10.25519	0.09879	1.94E-04	1.57E-05	2.07E-07	2.41E-05	1.94E-07	2.3409E-04
520778.28	4258583.39	10203.08164	0.09743	0.09447	0.09472	0.0976	1.94E-04	2.29E-07	1.94E-07	2.22E-07	1.92E-07	1.9478E-04
520096.85	4258033.95	10194.0866	0.10638	18.05343	0.10826	18.0902	1.94E-04	2.50E-07	3.70E-05	2.54E-07	3.56E-05	2.6691E-04
520765.69	4258533.15	10189.31154	0.10004	0.09868	0.09682	0.102	1.94E-04	2.35E-07	2.02E-07	2.27E-07	2.01E-07	1.9455E-04
519959.52	4258531.38	10177.30844	0.30932	1.17559	0.33664	1.0997	1.93E-04	7.26E-07	2.41E-06	7.90E-07	2.16E-06	1.9954E-04
520059.08	4258101.95	10176.29182	0.11372	11.71354	0.11872	7.89602	1.93E-04	2.67E-07	2.40E-05	2.79E-07	1.55E-05	2.3355E-04
519976.34	4258465.79	10175.01483	0.26766	1.54944	0.2847	1.42297	1.93E-04	6.28E-07	3.18E-06	6.68E-07	2.80E-06	2.0068E-04
519969.4	4258502.25	10174.482	0.29781	1.36903	0.32207	1.26774	1.93E-04	6.99E-07	2.81E-06	7.56E-07	2.50E-06	2.0016E-04
520051.71	4258116.57	10164.12809	0.11537	8.22773	0.12097	6.20541	1.93E-04	2.71E-07	1.69E-05	2.84E-07	1.22E-05	2.2285E-04
520003.69	4258238.05	10161.88672	0.13568	2.44963	0.14047	2.21563	1.93E-04	3.19E-07	5.02E-06	3.30E-07	4.36E-06	2.0319E-04
519808.11	4258848.56	10160.47539	0.21843	0.26449	0.22707	0.2589	1.93E-04	5.13E-07	5.42E-07	5.33E-07	5.10E-07	1.9523E-04
519979.54	4258385.23	10135.8031	0.19762	1.67173	0.20584	1.54142	1.93E-04	4.64E-07	3.43E-06	4.83E-07	3.03E-06	2.0007E-04
520077.3	4258433.5	10135.73052	0.09665	0.09646	0.09386	0.10022	1.93E-04	2.27E-07	1.98E-07	2.20E-07	1.97E-07	1.9350E-04
520765.74	4258523.67	10133.90903	0.09995	0.09878	0.09669	0.10216	1.93E-04	2.35E-07	2.03E-07	2.27E-07	2.01E-07	1.9349E-04
520072.22	4259526.97	10133.05515	13.88786	0.10114	22.06855	0.09804	1.93E-04	3.26E-05	2.07E-07	5.18E-05	1.93E-07	2.7743E-04
520010.31	4258215.34	10129.31854	0.13035	2.75175	0.1354	2.46564	1.93E-04	3.06E-07	5.64E-06	3.18E-07	4.85E-06	2.0366E-04
520027.74	4258168.2	10124.38825	0.12198	3.95364	0.12807	3.40939	1.92E-04	2.86E-07	8.11E-06	3.01E-07	6.71E-06	2.0785E-04
519897.12	4258646.05	10113.0582	0.2663	0.5729	0.28508	0.55643	1.92E-04	6.25E-07	1.17E-06	6.69E-07	1.10E-06	1.9580E-04
520037.52	4258144.2	10095.20871	0.11836	5.0891	0.12456	4.24224	1.92E-04	2.78E-07	1.04E-05	2.92E-07	8.35E-06	2.1125E-04
519949.61	4258550.82	10093.60485	0.30621	1.02802	0.33318	0.96999	1.92E-04	7.19E-07	2.11E-06	7.82E-07	1.91E-06	1.9738E-04
520106.7	4258013.98	10089.12547	0.10377	11.89491	0.10501	13.54855	1.92E-04	2.44E-07	2.44E-05	2.47E-07	2.67E-05	2.4333E-04
519939.69	4258570.26	10089.12041	0.30001	0.90522	0.32637	0.86026	1.92E-04	7.04E-07	1.86E-06	7.66E-07	1.69E-06	1.9680E-04
520032.58	4259507.04	10088.69869	4.85884	0.09981	6.44808	0.09797	1.92E-04	1.14E-05	2.05E-07	1.51E-05	1.93E-07	2.1871E-04
519887.12	4258664.6	10078.4998	0.25839	0.52245	0.27449	0.5083	1.92E-04	6.07E-07	1.07E-06	6.44E-07	1.00E-06	1.9490E-04
520774.09	4258450.94	10058.92857	0.09752	0.0971	0.09458	0.10087	1.91E-04	2.29E-07	1.99E-07	2.22E-07	1.99E-07	1.9205E-04
519855.74	4258728.06	10042.19271	0.23794	0.39842	0.25057	0.38761	1.91E-04	5.59E-07	8.17E-07	5.88E-07	7.63E-07	1.9361E-04
520768.08	4258486.89	10033.0629	0.09915	0.09842	0.09592	0.10205	1.91E-04	2.33E-07	2.02E-07	2.25E-07

519975.88	4258394.11	9805.55861	0.20022	1.58521	0.20852	1.46598	1.86E-04	4.70E-07	3.25E-06	4.90E-07	2.89E-06	1.9348E-04
519959.48	4258521.68	9800.85386	0.29761	1.1874	0.32273	1.11019	1.86E-04	6.99E-07	2.44E-06	7.58E-07	2.19E-06	1.9237E-04
520777.57	4258460.06	9792.3888	0.0968	0.09616	0.09385	0.09982	1.86E-04	2.27E-07	1.97E-07	2.20E-07	1.96E-07	1.8698E-04
520000.63	4258229.33	9786.83834	0.13091	2.31813	0.13535	2.10655	1.86E-04	3.07E-07	4.75E-06	3.18E-07	4.15E-06	1.9556E-04
520060.26	4258084.04	9783.85703	0.10921	12.47338	0.11384	8.17456	1.86E-04	2.56E-07	2.56E-05	2.67E-07	1.61E-05	2.2817E-04
520078.02	4259548.19	9780.24726	13.67845	0.09856	14.27527	0.09535	1.86E-04	3.21E-05	2.02E-07	3.35E-05	1.88E-07	2.5192E-04
520011.61	4258194.84	9774.10277	0.12385	2.8111	0.12885	2.51358	1.86E-04	2.91E-07	5.77E-06	3.02E-07	4.95E-06	1.9700E-04
520774.72	4258478.46	9768.6547	0.09757	0.09675	0.09447	0.10034	1.86E-04	2.29E-07	1.98E-07	2.22E-07	1.98E-07	1.8653E-04
519994.23	4258251.94	9765.24516	0.13633	2.08716	0.14086	1.91061	1.86E-04	3.20E-07	4.28E-06	3.31E-07	3.76E-06	1.9431E-04
519814.42	4258815.92	9761.40448	0.21414	0.28615	0.22325	0.2798	1.86E-04	5.03E-07	5.87E-07	5.24E-07	5.51E-07	1.8771E-04
519929.73	4258580	9737.53833	0.28716	0.81393	0.31238	0.77783	1.85E-04	6.74E-07	1.67E-06	7.33E-07	1.53E-06	1.8970E-04
520788.42	4258583.44	9733.13381	0.09504	0.0921	0.09249	0.09513	1.85E-04	2.23E-07	1.89E-07	2.17E-07	1.87E-07	1.8583E-04
520776.55	4258540.86	9730.70751	0.09752	0.09579	0.09451	0.09895	1.85E-04	2.29E-07	1.96E-07	2.22E-07	1.95E-07	1.8581E-04
519969.32	4258482.85	9716.63933	0.2739	1.39181	0.2936	1.28781	1.85E-04	6.43E-07	2.85E-06	6.89E-07	2.54E-06	1.9142E-04
520032.61	4259527.04	9709.45867	5.0545	0.09684	6.84375	0.09507	1.85E-04	1.19E-05	1.99E-07	1.61E-05	1.87E-07	2.1288E-04
520028.69	4258147.84	9706.57336	0.11609	4.03433	0.12203	3.47004	1.85E-04	2.73E-07	8.27E-06	2.86E-07	6.83E-06	2.0017E-04
520018.79	4258171.9	9697.86576	0.11949	3.22835	0.12496	2.84429	1.84E-04	2.81E-07	6.62E-06	2.93E-07	5.60E-06	1.9713E-04
519804.44	4258839.83	9686.40759	0.20935	0.26463	0.21754	0.2591	1.84E-04	4.91E-07	5.43E-07	5.11E-07	5.10E-07	1.8618E-04
520096.91	4258013.95	9683.71756	0.10161	18.0904	0.10528	18.227	1.84E-04	2.39E-07	3.71E-05	2.42E-07	3.59E-05	2.5753E-04
520049.29	4258101.92	9682.97867	0.11046	7.43598	0.11587	5.7418	1.84E-04	2.59E-07	1.53E-05	2.72E-07	1.13E-05	2.1114E-04
520068.12	4259548.21	9682.44278	16.11111	0.09748	25.7271	0.0947	1.84E-04	3.78E-05	2.00E-07	6.04E-05	1.86E-07	2.8265E-04
519818.67	4258802.23	9675.87551	0.21457	0.29765	0.22384	0.29091	1.84E-04	5.04E-07	6.10E-07	5.26E-07	5.73E-07	1.8613E-04
519864.7	4258701.43	9670.97579	0.23769	0.43422	0.25119	0.42223	1.84E-04	5.58E-07	8.91E-07	5.90E-07	8.31E-07	1.8670E-04
520787.45	4258434.29	9662.25981	0.09449	0.09378	0.09179	0.09742	1.84E-04	2.22E-07	1.92E-07	2.15E-07	1.92E-07	1.8448E-04
519995.03	4258241.62	9647.27085	0.1328	2.11694	0.13716	1.93654	1.83E-04	3.12E-07	4.34E-06	3.22E-07	3.81E-06	1.9216E-04
520001.43	4258219.01	9640.99006	0.11758	2.34414	0.13194	2.12809	1.83E-04	3.00E-07	4.81E-06	3.10E-07	4.19E-06	1.9286E-04
519897.12	4258636.77	9635.59389	0.25966	0.57906	0.27838	0.56262	1.83E-04	6.10E-07	1.19E-06	6.54E-07	1.11E-06	1.8671E-04
519887.12	4258655.32	9615.97693	0.25199	0.52789	0.26823	0.51403	1.83E-04	5.92E-07	1.08E-06	6.30E-07	1.01E-06	1.8610E-04
519940.56	4258541.12	9613.25704	0.29479	1.03852	0.31968	0.97966	1.83E-04	6.92E-07	2.13E-06	7.51E-07	1.93E-06	1.8823E-04
520785.55	4258566.75	9610.21114	0.0956	0.09314	0.09292	0.09618	1.83E-04	2.24E-07	1.91E-07	2.18E-07	1.89E-07	1.8350E-04
519842.8	4258745.07	9606.34751	0.22485	0.36324	0.23601	0.35395	1.83E-04	5.28E-07	7.45E-07	5.54E-07	6.97E-07	1.8512E-04
519939.65	4258560.56	9599.20349	0.29083	0.91612	0.31523	0.87023	1.82E-04	6.83E-07	1.88E-06	7.40E-07	1.71E-06	1.8748E-04
520012.18	4258184.61	9594.70575	0.12078	2.84047	0.12577	2.53661	1.82E-04	2.84E-07	5.83E-06	2.95E-07	4.99E-06	1.9378E-04
520078.04	4259558.19	9594.27016	13.29701	0.0971	13.63606	0.09396	1.82E-04	3.12E-05	1.99E-07	3.20E-05	1.85E-07	2.4598E-04
520784.2	4258451.63	9586.0977	0.0953	0.09451	0.09247	0.09812	1.82E-04	2.24E-07	1.94E-07	2.17E-07	1.93E-07	1.8304E-04
520106.76	4257993.98	9584.91434	0.09922	11.8949	0.10029	13.68228	1.82E-04	2.33E-07	2.44E-05	2.35E-07	2.69E-05	2.3399E-04
519877.12	4258673.87	9573.60401	0.24453	0.48377	0.25879	0.47135	1.82E-04	5.74E-07	9.92E-07	6.08E-07	9.28E-07	1.8508E-04
519837.31	4258755.94	9568.23654	0.22156	0.34788	0.23219	0.33923	1.82E-04	5.20E-07	7.13E-07	5.45E-07	6.68E-07	1.8432E-04
520038.4	4259538.26	9565.66084	6.23596	0.09581	9.40905	0.09395	1.82E-04	1.46E-05	1.96E-07	2.21E-05	1.85E-07	2.1894E-04
520778.1	4258487.33	9564.37232	0.09686	0.09581	0.09376	0.09929	1.82E-04	2.27E-07	1.96E-07	2.20E-07	1.95E-07	1.8264E-04
520781.04	4258469.19	9550.27142	0.09609	0.09523	0.09313	0.09878	1.82E-04	2.26E-07	1.95E-07	2.19E-07	1.94E-07	1.8237E-04
520060.29	4258074.04	9546.30997	0.10664	12.44701	0.11111	8.15151	1.81E-04	2.50E-07	2.55E-05	2.61E-07	1.60E-05	2.2354E-04
519858.39	4258710.33	9522.97999	0.23224	0.41387	0.24444	0.40304	1.81E-04	5.45E-07	8.49E-07	5.74E-07	7.93E-07	1.8378E-04
520783.03	4258549.27	9515.25567	0.09607	0.09404	0.09322	0.09711	1.81E-04	2.26E-07	1.93E-07	2.19E-07	1.91E-07	1.8170E-04
520780.1	4258532.72	9511.41173	0.09663	0.09509	0.09364	0.09822	1.81E-04	2.27E-07	1.95E-07	2.20E-07	1.93E-07	1.8163E-04
520019.35	4258161.68	9510.49903	0.11662	3.26852	0.12207	2.87756	1.81E-04	2.74E-07	6.70E-06	2.87E-07	5.66E-06	1.9371E-04
520068.14	4259558.21	9499.75991	15.78501	0.09604	23.91989	0.09332	1.81E-04	3.71E-05	1.97E-07	5.62E-05	1.84E-07	2.7417E-04
520028.13	4258137.67	9499.72082	0.11332	4.06927	0.11917	3.49439	1.81E-04	2.66E-07	8.35E-06	2.80E-07	6.88E-06	1.9634E-04
520002.17	4258208.72	9491.05378	0.1244	2.37366	0.12871	2.15308	1.80E-04	2.92E-07	4.87E-06	3.02E-07	4.24E-06	1.9011E-04
519807.6	4258823.53	9483.97154	0.2073	0.27496	0.21561	0.2691	1.80E-04	4.87E-07	5.64E-07	5.06E-07	5.30E-07	1.8236E-04
519959.44	4258511.99	9474.3596	0.28613	1.19796	0.30903	1.12	1.80E-04	6.72E-07	2.46E-06	7.26E-07	2.20E-06	1.8615E-04
519972.23	4258403	9473.71837	0.20279	1.50523	0.21117	1.39581	1.80E-04	4.76E-07	3.09E-06	4.96E-07	2.75E-06	1.8688E-04
520028.5	4259538.27	9463.30576	4.55887	0.09485	6.01299	0.09318	1.80E-04	1.07E-05	1.95E-07	1.41E-05	1.83E-07	2.0508E-04
520049.32	4258091.92	9453.36662	0.10785	7.42415	0.11308	5.7286	1.80E-04	2.53E-07	1.52E-05	2.65E-07	1.13E-05	2.0671E-04
519972.52	4258378.02	9450.30447	0.18572	1.51985	0.1928	1.41171	1.80E-04	4.36E-07	3.12E-06	4.53E-07	2.78E-06	1.8642E-04
520780.44	4258523.59	9448.97268	0.09649	0.09513	0.09347	0.09829	1.80E-04	2.27E-07	1.95E-07	2.19E-07	1.93E-07	1.8044E-04
520096.94	4258003.95	9444.07918	0.09937	18.1056	0.10094	18.34843	1.80E-04	2.33E-07	3.71E-05	2.37E-07	3.61E-05	2.5324E-04
519909.85	4258609.17	9426.16712	0.26609	0.65977	0.28772	0.63827	1.79E-04	6.24E-07	1.35E-06	6.75E-07	1.26E-06	1.8309E-04
520108.08	4257984.88	9417.26912	0.09751	11.35439	0.09847	13.21272	1.79E-04	2.29E-07	2.33E-05	2.31E-07	2.60E-05	2.2876E-04
519983.51	4258276.34	9414.48667	0.14066	1.78113	0.14545	1.6478	1.79E-04	3.30E-07	3.65E-06	3.41E-07	3.24E-06	1.8652E-04
520078.06	4259568.19	9413.69793	12.92113	0.09567	13.03476	0.0926	1.79E-04	3.03E-05	1.96E-07	3.06E-05	1.82E-07	2.4025E-04
519969.69	4258457.69	9411.29972	0.24709	1.42358	0.26139	1.31703	1.79E-04	5.80E-07	2.92E-06	6.14E-07	2.59E-06	1.8560E-04
520780.79	4258514.46	9407.48737	0.09637	0.09509	0.09332	0.09832	1.79E-04	2.26E-07	1.95E-07	2.19E-07	1.94E-07	1.7965E-04
519821.84	4258785.95	9404.81432	0.212	0.30938	0.22115	0.30232	1.79E-04	4.98E-07	6.35E-07	5.19E-07	5.95E-07	1.8102E-04
520790.88	4258443.29	9394.91741	0.09382	0.09287	0.09112	0.09643	1.79E-04	2.20E-07	1.90E-07	2.14E-07	1.90E-07	1.7939E-04
520038.42	4259548.26	9387.78631	6.40719	0.09441	9.86949	0.09258	1.78E-04	1.50E-05	1.94E-07	2.32E-05	1.82E-07	2.1703E-04
520781.13	4258505.32	9385.85562	0.09625	0.09502	0.09318	0.0983	1.78E-04	2.26E-07	1.95E-07	2.19E-07	1.94E-07	1.7924E-04
520781.47	4258496.19	9383.73054	0.09614	0.09493	0.09307	0.09829	1.78E-04	2.26E-07	1.95E-07	2.18E-07	1.93E-07	1.7920E-04
519830.82	4258764.41	9360.18907	0.21549	0.33297	0.22538	0.32498	1.78E-04	5.06E-07	6.83E-07	5.29E-07	6.40E-07	1.8028E-04
519975.86	4258319.45	9358.35243	0.15549	1.60027	0.16088	1.48798	1.78E-04	3.65E-07	3.28E-06	3.78E-07	2.93E-06	1.8484E-04
519977.1	4258308.95	9348.50648	0.15129	1.62839	0.15653	1.5133	1.78E-04	3.55E-07	3.34E-06	3.67E-07	2.98E-06	1.8474E-04
520789.18	4258558.43	9346.82036	0.09472	0.09246	0.09204	0.09545	1.78E-04	2.22E-07	1.90E-07	2.16E-07	1.88E-07	1.7848E-04
519974.47	4258330.01	9343.13279	0.1598	1.56974	0.16535	1.46035	1.78E-04	3.75E-07	3.22E-06	3.88E-07	2.87E-06	1.8445E-04
519852.02	4258719.08	9338.94971	0.22606	0.395	0.23772	0.38475	1.78E-04	5.31E-07	8.10E-07	5.58E-07	7.57E-07	1.8017E-04
519984.56	4258265.92	9338.34752	0.13697	1.80536	0.14153	1.66929	1.78E-04	3.22E-07	3.70E-06	3.32E-07	3.29E-06	1.8515E-04
520787.65	4258460.69	9337.84691	0.0946	0.09363	0.09177	0.09714	1.77E-04	2.22E-07	1.92E-07	2.15E-07	1.91E-07	1.7832E-04
520002.86	4259198.45	9335.21178	0.12132	2.3922	0.12558	2.16703	1.77E-04	2.85E-07	4.91E-06	2.95E-07	4.27E-06	1.8720E-04
520784.51	4258478.31	9331.38379	0.09538	0.09429	0.09241	0.09773	1.77E-04	2.24E-07	1.93E-07	2.17E-07	1.92E-07	1.7820E-04
520050.47	4258084.01	9330.49645	0.1062	7.74807	0.11126	5.91875	1.77E-04	2.49E-07	1.59E-05	2.61E-07	1.17E-05	2.0541E-04
519919.77	4258589.73	9325.94472	0.27263	0.75327	0.29571	0.70653	1.77E-04	6.40E-07	1.51E-06	6.94E-07	1.39E-06	1.8150E-04
520019.87	4258151.48	9324.93641	0.11385	3.30234	0.11927	2.90367	1.77E-04	2.67E-07	6.77E-06	2.80E-07	5.72E-06	1.9029E-04
520068.16	4259568.21	9322.18872	15.5962	0.09463	22.34603	0.09198	1.77E-04	3.66E-05	1.94E-07	5.25E-05	1.81E-07	2.6665E-04
520060.32	4258064.04	9316.88843	0.10417	12.42092	0.10848	8.11523	1.77E-04	2.45E-07	2.55E-05	2.60E-07	1.60E-05	2.1905E-04
519978.21	4258298.5	9316.75908	0.1472	1.65378	0.15228	1.53609	1.77E-04	3.46E-07	3.39E-06	3.58E-07	3.02E-06	1.8421E-04
520786.56	4258541.19	9289.57364	0.09521	0.09337	0.09237	0.09641	1.77E-04	2.24E-07	1.91E-07	2.17E-07	1.90E-07	1.7740E-04
520028.52	4259548.27	9288.97956	4.65018	0.09347	6.19428	0.09183	1.77E-04	1.09E-05	1.92E-07	1.45E-05	1.81E-07	2.0240E-04
519991.67	4258233.03	9288.29264	0.12811	2.00629	0.13216	1.8425	1.77E-04	3.01E-07	4.11E-06	3.10E-07	3.63E-06	1.8491E-04
519969.8	4258433.17	9286.65983	0.22411	1.44246	0.23461	1.33715	1.77E-04	5.26E-07	2.96E-06	5.51E-07	2.63E-06	1.8319E-04
520009.85	4258175.59	9284.92134	0.11707	2.71117	0.1218	2.43023	1.76E-04	2.75E-07	5.56E-06	2.88E-07	4.78E-06	1.8739E-04
519979.21	4258288.1	9266.24954	0.14324	1.67597	0.14813	1.55614	1.76E-04	3.36E-07	3.44E-06	3.48E-07	3.06E-06	1.8332E-04
519985.51	4258255.54	9242.89527	0.13339	1.82578	0.13772	1.68731	1.76E-04	3.13E-07	3.74E-06	3.23E-07	3.32E-06	1.8339E-04
519810.69	4258807.07	9239.13126	0.20486	0.28565	0.21321	0.27942	1.76E-04	4.81E-07	5.86E-07	5.01E-07	5.50E-07	1.7774E-04
519929.69	4258570.3	9230.2262	0.27779	0.82342	0.30089	0.78623	1.75E-04	6.52E-07	1.69E-06	7.06E-07	1.55E-06	1.8004E-04
519949.52	4258531.42	9226.61256	0.28431	1.04888	0.30744	0.98896	1.75E-04	6.67E-07	2.15E-06	7.22E-07	1.95E-06	1.8087E-04
519800.77	4258831.1	9215.91684	0.20072	0.2645	0.20835	0.25904	1.75E-04	4.71E-07	5.42E-07	4.89E-07	5.10E-07	1.7719E-04
520038.44	4259558.26	9214.92422	6.59381	0.09304	10.38246	0.09125	1.75E-04	1.55E-05	1.91E-07	2.44E-05	1.80E-07	2.1538E-04
519971.77	4258341.11	9212.19228	0.16361	1.51317	0.16924	1.40975	1.75E-04	3.84E-07	3.10E-06	3.97E-07	2.78E-06	1.8177E-04
520096.97	4257993.95	9211.90676	0.0972	18.12302	0.09869	18.37007	1.75E-04	2.28E-07	3.72E-05	2.32E-07	3.62E-05	2.4889E-04
519959.4	4258502.29	9196.64156	0.27507	1.20778	0.29593	1.12923	1.75E-04	6.46E-07	2.48E-06	6.95E-07	2.22E-06	1.8085E-04
520108.11	4257974.88	9191.18774	0.09545	11.34093	0.09632	13.25142	1.75E-04	2.24E-07	2.33E-05	2.26E-07	2.61E-05	2.2450E-04
520003.5	4258188.2	9182.01906	0.11839	2.42265	0.12264	2.19267	1.75E-04	2.78E-07	4.97E-06	2.88E-07	4.32E-06	1.8438E-04
520795.64	4258566.91	9179.07729	0.0933	0.09085	0.09079	0.09378	1.74E-04	2.19E-07	1.86E-07	2.13E-07	1.85E-07	1.7528E-04
520073.53	4259579.43	9176.91376	14.01962	0.09365	15.29984	0.09085	1.74E-04	3.29E-05	1.92E-07	3.59E-05	1.79E-07	2.4364E-04
519887.12	4258646.05	9174.82797	0.24589	0.53331	0.26231	0.51949	1.74E-04	5.77E-07	1.09E-06	6.16E-07	1.02E-06	1.7771E-04
519966.23	4258466.09	9173.17028	0.24986	1.35425	0.26537	1.25654	1.74E-04	5.87E-07	2.78E-06	6.23E-07	2.47E-06	1.8083E-04
519970.5	4258351.62	9172.05425	0.16829	1.48644	0.17415	1.38533	1.74E-04	3.95E-07	3.05E-06	4.09E-07	2.73E-06	1.8092E-04
519939.61	4258550.86	9170.87981	0.28145	0.9259	0.3042	0.87931	1.74E-04	6.61E-07	1.90E-06	7.14E-07	1.73E-06	1.7933E-04
519992.55	4258222.68	9169.81687	0.12493	2.03179	0.12884	1.86413	1.74E-04	2.93E-07	4.17E-06	3.02E-07	3.67E-06	1.8273E-04
519845.6	4258727.71	9156.44241	0.22008	0.3773	0.23109	0.36772	1.74E-04	5.17E-07	7.74E-07	5.43E-07	7.24E-07	1.7660E-04
519968.92	4258386.77	9154.02493	0.18797	1.44673	0.19508	1.34722	1.74E-04	4.41E-07	2.97E-06	4.58E-07	2.65E-06	1.8052E-04
519877.12	4258664.6	9152.52742	0.23879	0.48847	0.25301	0.47652	1.74E-04	5.61E-07	1.00E-06	5.94E-07	9.38E-07	1.7707E-04
519815.06	4258793.63	9150.26747	0.20541	0.29685	0.21388	0.29029	1.74E-04	4.82E-07	6.09E-07	5.02E-07	5.71E-07	1.7609E-04
519986.38	4258245.19	9149.26541	0.13	1.84963	0.13412	1.70791	1.74E-04	3.05E-07	3.79E-06	3.15E-07	3.36E-06	1.8169E-04
519968.57	4258411.89	9144.65833	0.20531	1.43072	0.21379	1.33004	1.74E-04	4.82E-07	2.93E-06	5.02E-07	2.62E-06	1.8036E-04
520794.31	4258452.29	9144.34753	0.09315	0.09201	0.09044	0.09548	1.74E-04	2.19E-07	1.89E-07	2.12E-07	1.88E-07	1.7463E-04
520020.36	4258141.29	9140.88848	0.11118	3.3309	0.11658	2.92466	1.74E-04	2.61E-07	6.83E-06	2.74E-07	5.76E-06	1.8688E-04
520787.99	4258487.44	9134.14999	0.09466	0.09339	0.0917	0.09671	1.74E-04	2.22E-07	1.92E-07	2.15E-07	1.90E-07	1.7444E-04
520028.53	4259558.27	9119.36458	4.75639	0.09212	6.38938	0.09052	1.73E-04	1.12E-05	1.89E-07	1.50E-05	1.78E-07	1.9988E-04
520010.47	4258165.34	9118.70179	0.1143	2.73877	0.11904	2.45173	1.73E-04	2.68E-07	5.62E-06	2.79E-07	4.83E-06	1.8432E-04
520050.5	4258074.01	9115.86746	0.10377	7.73284	0.10865	5.90757	1.73E-04	2.44E-07	1.59E-05	2.55E-07	1.16E-05	2.0126E-04
520791.1	4258469.75	9112.84737	0.09391	0.09274	0.09107	0.09614	1.73E-04	2.20E-07	1.90E-07	2.14E-07	1.89E-07	1.7403E-04
519867.12	4258683.15	9105.61893	0.23174	0.44955	0.24455	0.43844	1.73E-04	5.44E-07	9.22E-07	5.74E-07	8.63E-07	1.7598E-04
520063.63	4259579.45	9088.08683	14.7088	0.09262	29.17623	0.09021	1.73E-04	3.45E-05	1.90E-07	6.85E-05	1.78E-07	2.7614E-04
520098.29	4257984.85	9057.52745	0.09557	16.98966	0.09692	17.78398	1.72E-04	2.24E-07	3.48E-05	2.28E-07	3.50E-05	2.4247E-04
520059.57	4258053.82	9052.75742	0.10151	11.8343	0.10573	7.79413	1.72E-04	2.38E-07	2.43E-05	2.48E-07	1.53E-05	2.1218E-04
520038.45	4259568.26	9046.83487	6.78536	0.09171	10.95257	0.08995	1.72E-04	1.59E-05	1.88E-07	2.57E-05	1.77E-07	2.1397E-04
519993.36	4258212.35	9044.7432	0.12186	2.05745	0.12567	1.88502	1.72E-04	2.86E-07	4.22E-06	2.95E-07	3.71E-06	1.8044E-04
519899.89	4258618.91	9025.0365	0.25304	0.60311	0.2717	0.58573	1.72E-04	5.94E-07	1.24E-06	6.38E-07	1.15E-06	1.7517E-04
520790.44	4258523.96	9024.35512	0.09424	0.09274	0.09138	0.09577	1.72E-04	2.21E-07	1.90E-07	2.15E-07	1.89E-07	1.7235E-04
520073.55	4259589.43	9008.68365	13.47585	0.09231	14.54239	0.08957	1.71E-04	3.16E-05	1.89E-07	3.41E-05	1.76E-07	2.3738E-04
519966.38	4258441.47	9000.30575	0.22666	1.37529	0.23782	1.27769	1.71E-04	5.32E-07	2.82E-06	5.58E-07	2.52E-06	1.7751E-04
519803.9	4258814.74	8989.96271	0.19854	0.27457	0.20624	0.26877	1.71E-04	4.66E-07	5.63E-07	4.84E-07	5.29E-07	1.7293E-04
520790.78	4258514.83	8984.51318	0.09414	0.0927	0.09124	0.09578	1.71E-04	2.21E-07	1.90E-07	2.14E-07	1.89E-07	1.7159E-04
519959.36	4258492.59	8982.68706	0.26474	1.21761	0.28385	1.13808	1.71E-04	6.22E-07	2.50E-06	6.66E-07	2.24E-06	1.7677E-04
519839.13	4258736.23	8976.09505	0.21431	0.36067	0.22456	0.35181	1.71E-04	5.03E-07	7.40E-07	5.27E-07	6.93E-07	1.7308E-04
519962.78	4258474.49	8970.95114	0.25243	1.28892	0.26905	1.19979	1.71E-04	5.93E-07	2.64E-06	6.32E-07	2.36E-06	1.7675E-04
520108.14	4257964.88	8964.35861	0.09342	11.34153	0.09424	13.27536	1.70E-04	2.19E-07	2.33E-05	2.21E-07	2.61E-05	2.2023E-04
520791.12	4258505.7	8963.18617	0.09403	0.09262	0.09111	0.09576	1.70E-04	2.21E-07	1.90E-07	2.14E-07	1.89E-07	1.7119E-04
519860.91	4258692.29	8960.72871	0.22586	0.42876	0.23823	0.41796	1.70E-04	5.30E-07	8.79E-07	5.59E-07	8.23E-07	1.7312E-04
520791.46	4258496.57	8960.48903	0.09393	0.09255	0.09101	0.09575	1.70E-04	2.21E-07	1.90E-07	2.14E-07	1.88E-07	1.7114E-04
520028.55	4259568.27	8954.55006	4.86811	0.09081	6.60112	0.08924	1.70E-04	1.14E-05	1.86E-07	1.55E-05	1.76E-07	1.9750E-04
520011.05	4258155.12	8953.39691	0.11164	2.76509	0.11639	2.47229	1.70E-04	2.62E-07	5.67E-06	2.73E-07	4.87E-06	1.8126E-04
519909.81	4258599.47	8944.34895	0.25907	0.6676	0.27963	0.64511	1.70E-04	6.08E-07	1.37E-06	6.56E-07	1.27E-06	1.7392E-04
519833.53	4258746.84	8940.22306	0.21103	0.3457	0.22077	0.3374	1.70E-04	4.95E-07	7.09E-07	5.18E-07	6.64E-07	1.7232E-04
520063.65	4259589.45	8922.5916	14.4781	0.0913	26.94141	0.08894	1.70E-04	3.40E-05	1.87E-07	6.32E-05	1.75E-07	2.6720E-04
519994.11	4258202.06	8914.47694	0.11891	2.07672	0.12263	1.90169	1.69E-04	2.79E-07	4.26E-06	2.88E-07	3.74E-06	1.7802E-04
520797.74	4258461.3	8911.78299	0.09246	0.09122	0.08975	0.09457	1.69E-04	2.17E-07	1.87E-07	2.11E-07	1.86E-07	1.7020E-04
520794.56	4258478.82	8907.95756	0.0932	0.09189	0.09037	0.09517	1.69E-04	2.19E-07	1.88E

520800.09	4258533.47	8685.76217	0.09218	0.09037	0.0895	0.09325	1.65E-04	2.16E-07	1.85E-07	2.10E-07	1.84E-07	1.6590E-04
519848.29	4258710.1	8675.83386	0.21495	0.3909	0.22589	0.38128	1.65E-04	5.05E-07	8.02E-07	5.30E-07	7.51E-07	1.6750E-04
519977.73	4258248.76	8674.66154	0.12731	1.63443	0.13127	1.52116	1.65E-04	2.99E-07	3.35E-06	3.08E-07	2.99E-06	1.7184E-04
520033.94	4259589.5	8665.97333	6.10968	0.08858	9.29212	0.08698	1.65E-04	1.43E-05	1.82E-07	2.18E-05	1.71E-07	2.0124E-04
520049.79	4258053.79	8659.7136	0.09886	7.48118	0.10351	5.70835	1.65E-04	2.32E-07	1.53E-05	2.43E-07	1.12E-05	1.9166E-04
520059.64	4258033.82	8643.83059	0.09709	11.78613	0.10102	7.76828	1.64E-04	2.28E-07	2.42E-05	2.37E-07	1.53E-05	2.0423E-04
519811.44	4257785.04	8635.90186	0.1967	0.29577	0.20449	0.28938	1.64E-04	4.62E-07	6.07E-07	4.80E-07	5.70E-07	1.6627E-04
520098.35	4257964.85	8630.39604	0.09159	17.00253	0.0928	17.84891	1.64E-04	2.15E-07	3.49E-05	2.18E-07	3.51E-05	2.3449E-04
520800.43	4258524.34	8628.65184	0.09207	0.09043	0.08935	0.09333	1.64E-04	2.16E-07	1.85E-07	2.10E-07	1.84E-07	1.6481E-04
519984.55	4258215.99	8613.38912	0.11942	1.80161	0.12294	1.66492	1.64E-04	2.80E-07	3.69E-06	2.89E-07	3.28E-06	1.7127E-04
519949.44	4258512.03	8612.49906	0.26443	1.06738	0.28406	1.00591	1.64E-04	6.21E-07	2.19E-06	6.67E-07	1.98E-06	1.6916E-04
520063.68	4259609.45	8605.38064	13.80921	0.08876	23.1832	0.0865	1.64E-04	3.24E-05	1.82E-07	5.44E-05	1.70E-07	2.5077E-04
519963.34	4258344.59	8593.14387	0.15927	1.35759	0.16433	1.27261	1.63E-04	3.74E-07	2.78E-06	3.86E-07	2.51E-06	1.6939E-04
520002.23	4258158.76	8591.90534	0.1095	2.35647	0.11352	2.13449	1.63E-04	2.57E-07	4.83E-06	2.67E-07	4.20E-06	1.7287E-04
520800.77	4258515.21	8589.32955	0.09197	0.09041	0.08922	0.09336	1.63E-04	2.16E-07	1.85E-07	2.09E-07	1.84E-07	1.6406E-04
519899.85	4258609.21	8582.40452	0.24638	0.6065	0.24454	0.59174	1.63E-04	5.78E-07	1.25E-06	6.21E-07	1.16E-06	1.6675E-04
520024.04	4259589.51	8579.86585	4.41989	0.08775	5.86682	0.0863	1.63E-04	1.04E-05	1.80E-07	1.38E-05	1.70E-07	1.8759E-04
520801.11	4258506.07	8568.50003	0.09188	0.09034	0.08911	0.09334	1.63E-04	2.16E-07	1.85E-07	2.09E-07	1.84E-07	1.6367E-04
520801.46	4258496.94	8564.78883	0.09179	0.09026	0.08901	0.09331	1.63E-04	2.15E-07	1.85E-07	2.09E-07	1.84E-07	1.6359E-04
519961.94	4258379.47	8562.15274	0.1769	1.32553	0.18298	1.24218	1.63E-04	4.15E-07	2.72E-06	4.30E-07	2.45E-06	1.6876E-04
519961.72	4258404.27	8557.80579	0.19238	1.31535	0.1996	1.23018	1.63E-04	4.52E-07	2.70E-06	4.69E-07	2.42E-06	1.6871E-04
520108.2	4257944.88	8540.73115	0.0896	11.32107	0.09032	13.32047	1.62E-04	2.10E-07	2.32E-05	2.12E-07	2.62E-05	2.1221E-04
520073.6	4259619.43	8531.6094	12.22302	0.08848	12.508	0.08591	1.62E-04	2.87E-05	1.81E-07	2.94E-05	1.69E-07	2.2058E-04
519841.9	4258718.8	8529.83704	0.20969	0.37372	0.21988	0.36474	1.62E-04	4.92E-07	7.66E-07	5.16E-07	7.18E-07	1.6463E-04
519961.26	4258429.66	8527.47625	0.21018	1.2967	0.21936	1.21071	1.62E-04	4.93E-07	2.66E-06	5.15E-07	2.38E-06	1.6814E-04
519959.56	4258458.05	8515.8888	0.23153	1.25234	0.24464	1.16925	1.62E-04	5.44E-07	2.57E-06	5.74E-07	2.30E-06	1.6786E-04
520033.96	4259599.5	8513.27595	6.27546	0.08736	9.75832	0.08579	1.62E-04	1.47E-05	1.79E-07	2.29E-05	1.69E-07	1.9981E-04
520804.59	4258479.31	8513.18824	0.0911	0.08958	0.0884	0.09272	1.62E-04	2.14E-07	1.84E-07	2.08E-07	1.83E-07	1.6261E-04
519800.21	4258805.95	8506.61892	0.19026	0.27384	0.19731	0.26817	1.62E-04	4.47E-07	5.62E-07	4.63E-07	5.28E-07	1.6369E-04
519985.37	4258205.66	8505.2372	0.11658	1.82032	0.11996	1.68085	1.62E-04	2.74E-07	3.73E-06	2.82E-07	3.31E-06	1.6927E-04
520806.47	4258542.11	8500.1315	0.09084	0.08878	0.0883	0.09157	1.62E-04	2.13E-07	1.82E-07	2.07E-07	1.80E-07	1.6236E-04
519909.77	4258589.78	8498.54102	0.25168	0.67561	0.27152	0.65171	1.62E-04	5.91E-07	1.39E-06	6.37E-07	1.28E-06	1.6544E-04
519991.95	4258182.97	8492.74386	0.11246	2.00103	0.11588	1.83563	1.61E-04	2.64E-07	4.10E-06	2.72E-07	3.61E-06	1.6969E-04
520049.82	4258043.79	8466.39703	0.0967	7.46664	0.10121	5.69014	1.61E-04	2.27E-07	1.53E-05	2.38E-07	1.12E-05	1.8791E-04
520063.7	4259619.45	8453.44406	15.30187	0.08754	21.59285	0.08532	1.61E-04	3.59E-05	1.80E-07	5.07E-05	1.68E-07	2.4765E-04
520059.67	4258023.82	8453.28413	0.09503	11.7595	0.09879	7.78925	1.61E-04	2.23E-07	2.41E-05	2.32E-07	1.53E-05	2.0059E-04
520002.83	4258148.52	8445.72991	0.10702	2.37794	0.11107	2.15133	1.61E-04	2.51E-07	4.88E-06	2.61E-07	4.23E-06	1.7016E-04
520024.06	4259599.51	8429.9877	4.50212	0.08655	6.03702	0.08512	1.60E-04	1.06E-05	1.78E-07	1.42E-05	1.68E-07	1.8533E-04
520098.38	4257954.85	8429.70678	0.08972	16.99525	0.09085	17.89593	1.60E-04	2.11E-07	3.49E-05	2.13E-07	3.52E-05	2.3074E-04
519919.69	4258570.34	8423.22993	0.25631	0.75176	0.27599	0.72115	1.60E-04	6.02E-07	1.54E-06	6.48E-07	1.42E-06	1.6432E-04
519939.52	4258531.47	8413.37607	0.26239	0.94297	0.28203	0.89516	1.60E-04	6.16E-07	1.93E-06	6.62E-07	1.76E-06	1.6490E-04
519986.13	4258195.36	8391.78156	0.11384	1.83219	0.11709	1.69148	1.60E-04	2.67E-07	3.76E-06	2.75E-07	3.33E-06	1.6714E-04
519929.61	4258550.9	8380.75071	0.25984	0.8394	0.27918	0.80155	1.59E-04	6.10E-07	1.72E-06	6.55E-07	1.58E-06	1.6387E-04
519835.46	4258727.38	8379.70208	0.20448	0.35756	0.21394	0.34922	1.59E-04	4.80E-07	7.33E-07	5.02E-07	6.87E-07	1.6169E-04
519949.4	4258502.33	8372.37702	0.25504	1.07563	0.27306	1.01368	1.59E-04	5.99E-07	2.21E-06	6.41E-07	2.00E-06	1.6495E-04
519992.7	4258172.68	8367.20354	0.1099	2.01927	0.11328	1.85054	1.59E-04	2.58E-07	4.14E-06	2.66E-07	3.64E-06	1.6735E-04
519877.12	4258646.05	8364.76888	0.228	0.4978	0.24248	0.48617	1.59E-04	5.35E-07	1.02E-06	5.69E-07	9.57E-07	1.6208E-04
520033.98	4259609.5	8364.72698	6.42369	0.08616	10.26254	0.08462	1.59E-04	1.51E-05	1.77E-07	2.41E-05	1.67E-07	1.9852E-04
520070.31	4259629.84	8350.57319	12.64934	0.08693	13.73692	0.08452	1.59E-04	2.97E-05	1.78E-07	3.22E-05	1.66E-07	2.2102E-04
519867.12	4258644.6	8348.60193	0.22158	0.45773	0.23426	0.44762	1.59E-04	5.20E-07	9.39E-07	5.50E-07	8.81E-07	1.6158E-04
519973.75	4258240.42	8348.25058	0.12277	1.54942	0.12646	1.4464	1.59E-04	2.88E-07	3.18E-06	2.97E-07	2.85E-06	1.6530E-04
519829.76	4258737.74	8345.33736	0.20125	0.343	0.21017	0.33515	1.59E-04	4.72E-07	7.03E-07	4.93E-07	6.60E-07	1.6096E-04
520808.02	4258488.31	8343.84675	0.09041	0.08877	0.08773	0.0918	1.59E-04	2.12E-07	1.82E-07	2.06E-07	1.81E-07	1.5938E-04
519965.74	4258283.67	8341.81323	0.13429	1.4037	0.13834	1.31575	1.59E-04	3.15E-07	2.88E-06	3.25E-07	2.59E-06	1.6467E-04
520108.23	4257934.88	8341.03208	0.0878	11.30504	0.08846	13.32766	1.59E-04	2.06E-07	2.32E-05	2.08E-07	2.62E-05	2.0838E-04
519814.56	4258768.65	8336.43542	0.19406	0.30658	0.2018	0.29994	1.58E-04	4.56E-07	6.29E-07	4.74E-07	5.90E-07	1.6061E-04
519966.96	4258273.18	8317.23167	0.13101	1.42308	0.13498	1.33445	1.58E-04	3.08E-07	2.92E-06	3.17E-07	2.63E-06	1.6427E-04
519857.12	4258683.15	8313.33045	0.21515	0.42278	0.22661	0.41327	1.58E-04	5.05E-07	8.67E-07	5.32E-07	8.14E-07	1.6074E-04
519958.39	4258388.1	8301.57092	0.1789	1.26814	0.18499	1.19031	1.58E-04	4.20E-07	2.60E-06	4.34E-07	2.34E-06	1.6360E-04
519958.46	4258363.67	8293.29343	0.16532	1.27523	0.17057	1.19846	1.58E-04	3.88E-07	2.62E-06	4.00E-07	2.36E-06	1.6340E-04
519793.42	4258813.64	8291.55989	0.18463	0.26353	0.19115	0.25822	1.58E-04	4.33E-07	5.40E-07	4.49E-07	5.08E-07	1.5954E-04
520024.08	4259609.51	8284.14679	4.57352	0.08537	6.21031	0.08397	1.57E-04	1.07E-05	1.75E-07	1.46E-05	1.65E-07	1.8312E-04
520049.85	4258033.79	8280.59908	0.09463	7.45115	0.099	5.67487	1.57E-04	2.22E-07	1.53E-05	2.32E-07	1.12E-05	1.8431E-04
519968.07	4258262.74	8277.73503	0.12781	1.44114	0.13167	1.35084	1.57E-04	3.00E-07	2.96E-06	3.09E-07	2.66E-06	1.6357E-04
519974.78	4258230.01	8277.19192	0.11987	1.57246	0.1234	1.46573	1.57E-04	2.81E-07	3.22E-06	2.90E-07	2.89E-06	1.6402E-04
520060.41	4259629.86	8274.43994	14.2798	0.086	25.60142	0.08393	1.57E-04	3.35E-05	1.76E-07	6.01E-05	1.65E-07	2.5125E-04
519958.12	4258413.02	8267.84038	0.1945	1.25572	0.2019	1.17667	1.57E-04	4.57E-07	2.58E-06	4.74E-07	2.32E-06	1.6298E-04
520059.7	4258013.82	8262.04532	0.093	11.73031	0.09665	7.73232	1.57E-04	2.18E-07	2.41E-05	2.27E-07	1.52E-05	1.9677E-04
520810.42	4258524.71	8257.98298	0.08997	0.0881	0.08738	0.09089	1.57E-04	2.11E-07	1.81E-07	2.05E-07	1.79E-07	1.5775E-04
519957.6	4258438.55	8252.09557	0.21253	1.23575	0.22243	1.15629	1.57E-04	4.99E-07	2.53E-06	5.22E-07	2.28E-06	1.6269E-04
519993.41	4258162.4	8239.99635	0.10742	2.03771	0.1108	1.86525	1.57E-04	2.52E-07	4.18E-06	2.60E-07	3.67E-06	1.6499E-04
519889.89	4258618.95	8235.40739	0.23443	0.5597	0.25066	0.54512	1.57E-04	5.50E-07	1.15E-06	5.88E-07	1.07E-06	1.5990E-04
520098.41	4257944.85	8234.79901	0.0879	16.98183	0.08897	17.9227	1.57E-04	2.06E-07	3.48E-05	2.09E-07	3.53E-05	2.2705E-04
519803.25	4258789.38	8230.10061	0.18775	0.28367	0.19473	0.27778	1.56E-04	4.41E-07	5.82E-07	4.57E-07	5.47E-07	1.5847E-04
519969.08	4258252.33	8225.20857	0.1247	1.45875	0.12845	1.36647	1.56E-04	2.93E-07	2.99E-06	3.02E-07	2.69E-06	1.6262E-04
519961.01	4258305.6	8221.48515	0.14033	1.32253	0.14438	1.24371	1.56E-04	3.29E-07	2.71E-06	3.39E-07	2.45E-06	1.6210E-04
520033.99	4259619.5	8220.1895	0.4907	0.085	10.75897	0.08349	1.56E-04	1.52E-05	1.74E-07	2.53E-05	1.64E-07	1.9700E-04
520810.77	4258515.58	8219.78912	0.08988	0.08813	0.08726	0.09095	1.56E-04	2.11E-07	1.81E-07	2.05E-07	1.79E-07	1.5702E-04
519962.16	4258295.14	8218.2439	0.13682	1.34204	0.1408	1.26124	1.56E-04	3.21E-07	2.75E-06	3.31E-07	2.48E-06	1.6210E-04
519959.73	4258316.12	8205.40008	0.14391	1.30057	0.14803	1.22383	1.56E-04	3.38E-07	2.67E-06	3.48E-07	2.41E-06	1.6173E-04
520070.33	4259639.84	8204.8411	12.85691	0.08573	13.08477	0.08338	1.56E-04	3.02E-05	1.76E-07	3.07E-05	1.64E-07	2.1720E-04
520811.11	4258506.45	8198.90697	0.0898	0.08809	0.08716	0.09096	1.56E-04	2.11E-07	1.81E-07	2.05E-07	1.79E-07	1.5662E-04
519823.33	4258746.35	8198.42087	0.19626	0.32873	0.20456	0.32142	1.55E-04	4.61E-07	6.74E-07	4.80E-07	6.33E-07	1.5806E-04
519975.74	4258219.63	8197.1414	0.11705	1.59166	0.12042	1.48204	1.56E-04	2.75E-07	3.26E-06	2.83E-07	2.92E-06	1.6255E-04
520811.45	4258497.32	8194.78395	0.08972	0.08801	0.08708	0.09093	1.56E-04	2.11E-07	1.81E-07	2.04E-07	1.79E-07	1.5654E-04
519850.88	4258692.21	8181.65504	0.20967	0.40393	0.22076	0.39458	1.56E-04	4.92E-07	8.28E-07	5.18E-07	7.77E-07	1.5813E-04
519949.36	4258492.63	8180.97518	0.2462	1.08384	0.26284	1.02119	1.56E-04	5.78E-07	2.22E-06	6.17E-07	2.01E-06	1.6093E-04
519899.81	4258599.52	8172.26441	0.23984	0.61622	0.25753	0.59761	1.55E-04	5.63E-07	1.26E-06	6.05E-07	1.18E-06	1.5895E-04
519958.3	4258326.69	8167.12555	0.14755	1.27765	0.15179	1.20282	1.55E-04	3.46E-07	2.62E-06	3.56E-07	2.37E-06	1.6093E-04
519952.73	4258474.64	8153.56106	0.23579	1.1422	0.25062	1.07252	1.55E-04	5.54E-07	2.34E-06	5.88E-07	2.11E-06	1.6058E-04
520108.26	4257924.88	8149.80056	0.08606	11.28447	0.08667	13.35796	1.55E-04	2.02E-07	2.31E-05	2.03E-07	2.63E-05	2.0476E-04
520024.09	4259619.51	8142.1185	4.62133	0.08423	6.37637	0.08284	1.55E-04	1.08E-05	1.73E-07	1.50E-05	1.63E-07	1.8092E-04
519807.83	4258776.44	8138.62067	0.18849	0.29434	0.19566	0.28816	1.55E-04	4.43E-07	6.04E-07	4.57E-07	5.67E-07	1.5677E-04
519939.48	4258521.77	8134.10583	0.25381	0.9512	0.27213	0.90258	1.55E-04	5.96E-07	1.95E-06	6.39E-07	1.78E-06	1.5958E-04
520060.43	4259639.86	8131.62282	13.87968	0.08485	23.71832	0.08282	1.55E-04	3.26E-05	1.74E-07	5.57E-05	1.63E-07	2.4317E-04
519983	4258186.67	8113.86371	0.11027	1.74587	0.1133	1.61567	1.54E-04	2.59E-07	3.58E-06	2.66E-07	3.18E-06	1.6152E-04
519994.07	4258152.14	8111.30278	0.10504	2.05493	0.10842	1.87871	1.54E-04	2.47E-07	4.21E-06	2.55E-07	3.70E-06	1.6260E-04
519976.62	4258209.27	8109.26556	0.11432	1.60981	0.11753	1.49711	1.54E-04	2.68E-07	3.30E-06	2.76E-07	2.95E-06	1.6094E-04
519956.71	4258337.34	8106.90069	0.15126	1.25289	0.15565	1.18009	1.54E-04	3.55E-07	2.57E-06	3.65E-07	2.32E-06	1.5971E-04
520049.88	4258023.79	8100.21619	0.09263	7.43587	0.09686	5.65535	1.54E-04	2.17E-07	1.53E-05	2.27E-07	1.11E-05	1.8080E-04
519909.73	4258580.08	8098.02581	0.24457	0.68274	0.26295	0.6581	1.54E-04	5.74E-07	1.40E-06	6.17E-07	1.30E-06	1.5782E-04
520059.73	4258003.82	8083.33495	0.09108	11.7036	0.09459	7.74149	1.54E-04	2.14E-07	2.40E-05	2.22E-07	1.52E-05	1.9333E-04
519844.57	4258701.11	8064.82291	0.20482	0.38622	0.21513	0.33741	1.53E-04	4.81E-07	7.92E-07	5.05E-07	7.43E-07	1.5582E-04
520070.34	4259649.84	8063.69044	12.27416	0.08458	12.35062	0.08228	1.53E-04	2.88E-05	1.73E-07	2.90E-05	1.62E-07	2.1142E-04
520030.71	4259629.91	8048.6814	5.86285	0.08356	9.18232	0.08212	1.53E-04	1.38E-05	1.71E-07	2.16E-05	1.62E-07	1.8865E-04
520098.45	4257934.85	8048.01104	0.08615	16.94831	0.08716	17.92595	1.53E-04	2.02E-07	3.48E-05	2.05E-07	3.53E-05	2.2343E-04
519954.95	4258372.2	8045.71418	0.167	1.22088	0.17221	1.14975	1.53E-04	3.92E-07	2.50E-06	4.04E-07	2.26E-06	1.5850E-04
519919.65	4258560.64	8038.41786	0.24843	0.75874	0.26635	0.72786	1.53E-04	5.83E-07	1.56E-06	6.25E-07	1.43E-06	1.5699E-04
519796.51	4258797.17	8034.27281	0.18239	0.27282	0.18885	0.2673	1.53E-04	4.28E-07	5.60E-07	4.43E-07	5.26E-07	1.5467E-04
519954.84	4258396.74	8031.60228	0.18081	1.21359	0.18695	1.14104	1.53E-04	4.24E-07	2.49E-06	4.39E-07	2.25E-06	1.5826E-04
519929.57	4258541.21	8023.32854	0.25123	0.84654	0.26917	0.80842	1.53E-04	5.90E-07	1.74E-06	6.32E-07	1.59E-06	1.5706E-04
519949.32	4258482.94	8016.58202	0.23757	1.09177	0.25292	1.02821	1.52E-04	5.58E-07	2.24E-06	5.94E-07	2.02E-06	1.5780E-04
519977.44	4258198.95	8015.20808	0.11169	1.62338	0.11474	1.50909	1.52E-04	2.62E-07	3.33E-06	2.69E-07	2.97E-06	1.5919E-04
519983.82	4258176.34	8007.46689	0.10781	1.76759	0.11077	1.63371	1.52E-04	2.53E-07	3.63E-06	2.60E-07	3.22E-06	1.5956E-04
519953.95	4258447.43	8006.95622	0.21481	1.17847	0.22567	1.1053	1.52E-04	5.04E-07	2.42E-06	5.30E-07	2.18E-06	1.5782E-04
519877.12	4258636.77	8003.58857	0.22294	0.50246	0.23739	0.49075	1.52E-04	5.23E-07	1.03E-06	5.57E-07	9.66E-07	1.5521E-04
519867.12	4258655.32	7994.92981	0.21679	0.46177	0.22959	0.45188	1.52E-04	5.09E-07	9.47E-07	5.39E-07	8.90E-07	1.5485E-04
520060.44	4259649.86	7992.87876	13.05639	0.08373	21.94417	0.08174	1.52E-04	3.07E-05	1.72E-07	5.15E-05	1.61E-07	2.3443E-04
519954.52	4258421.77	7991.54412	0.19657	1.19975	0.20437	1.12622	1.52E-04	4.61E-07	2.46E-06	4.80E-07	2.22E-06	1.5752E-04
519857.12	4258673.87	7973.62767	0.21071	0.42632	0.22204	0.41739	1.52E-04	4.95E-07	8.74E-07	5.21E-07	8.22E-07	1.5428E-04
520020.81	4259629.93	7972.99576	4.24324	0.08283	5.71165	0.08149	1.52E-04	9.96E-06	1.70E-07	1.34E-05	1.60E-07	1.7525E-04
520108.3	4257914.88	7968.49903	0.08439	11.25308	0.08494	13.39592	1.51E-04	1.98E-07	2.31E-05	1.99E-07	2.64E-05	2.0131E-04
519838.21	4258709.89	7946.3763	0.2001	0.3696	0.20963	0.36135	1.51E-04	4.70E-07	7.58E-07	4.92E-07	7.11E-07	1.5348E-04
520049.91	4258013.79	7927.9075	0.09071	7.41896	0.09481	5.64438	1.51E-04	2.13E-07	1.52E-05	2.23E-07	1.11E-05	1.7746E-04
520070.36	4259659.84	7926.21375	11.86413	0.08345	11.62687	0.08121	1.51E-04	2.79E-05	1.71E-07	2.73E-05	1.60E-07	2.0614E-04
520059.76	4257993.82	7912.71333	0.08923	11.66949	0.09261	7.75046	1.50E-04	2.09E-07	2.39E-05	2.17E-07	1.53E-05	1.9002E-04
520030.72	4259639.91	7912.45533	5.9885	0.08245	9.58054	0.08104	1.50E-04	1.41E-05	1.69E-07	2.25E-05	1.60E-07	1.8728E-04
519964.79	4258244.12	7906.64665	0.1202	1.37871	0.12364	1.29528	1.50E-04	2.82E-07	2.83E-06	2.90E-07	2.55E-06	1.5624E-04
519984.59	4258166.04	7897.80866	0.10543	1.78349	0.10832	1.64656	1.50E-04	2.48E-07	3.66E-06	2.54E-07	3.24E-06	1.5752E-04
519939.44	4258512.07	7883.60014	0.24539	0.95867	0.26234	0.90951	1.50E-04	5.76E-07	1.97E-06	6.16E-07	1.79E-06	1.5480E-04
520008.48	4257924.85	7867.78037	0.08447	16.91475	0.08541	17.93534	1.50E-04	1.98E-07	3.47E-05	2.01E-07	3.53E-05	2.1995E-04
520060.46	4259659.86	7857.18692	13.14081	0.08261	20.70183	0.08066	1.49E-04	3.09E-05	1.69E-07	4.86E-05	1.59E-07	2.2913E-04
519965.9	4258233.67	7857.09264	0.11744	1.39963	0.12079	1.31331	1.49E-04	2.76E-07	2.87E-06	2.84E-07	2.59E-06	1.5536E-04
519889.85	4258609.26	7856.80545	0.2286	0.56521	0.24442	0.5503	1.49E-04	5.37E-07	1.16E-06	5.74E-07	1.08E-06	1.5270E-04
519956.86	4258287.34	7849.49494	0.13118	1.25864	0.1347	1.18681	1.49E-04	3.08E-07	2.58E-06	3.16E-07	2.34E-06	1.5475E-04
519958.16	4258276.81	7844.80856	0.12809	1.27695	0.13157	1.20384	1.49E-04	3.01E-07	2.62E-06	3.09E-07	2.37E-06	1.5471E-04
519789.75	4258804.91	7843.97199	0.1772	0.26261	0.18317	0.25743	1.49E-04	4.16E-07	5.39E-07	4.30E-07	5.07E-07	1.5099E-04
520020.82	4259639.93	7839.19433	4.29381	0.08172	5.83053	0.08042	1.49E-04	1.01E-05	1.68E-07	1.37E-05	1.58E-07	1.7310E-04
519810.93	4258760	7833.77852	0.18588	0.30467	0.19304	0.29829	1.49E-04	4.36E-07	6.25E-07	4.53E-07	5.87E-07	1.5101E-04
519959.35	4258266.34	7825.49647	0.12507	1.29399	0.12852	1.21943	1.49E-04	2.94E-07	2.65E-06	3.02E-07	2.40E-06	1.5440E-04
519831.79	4258718.53	7819.44011	0.19532	0.35394	0.20415	0.34619	1.49E-04	4.59E-07	7.26E-07	4.79E-07	6.81E-07	1.5098E-04
519951.44	4258380.73	7803.98326	0.16871	1.17077	0.1739	1.10426	1.48E-04	3.96E-07	2.40E-06	4.08E-07	2.17E-06	1.5372E-04
519951.42	4258356.51	7801.20926	0.1565	1.17549	0.16101	1.10988	1.48E-04	3.67E-07	2.41E-06	3.78E-07	2.18E-06	1.5363E-04
520061.08	4257984.72	7796.95908	0.08788	12.57583	0.09107	8.08682	1.48E-04	2.06E-07	2.58E-05	2.14E-07	1.59E-05	1.9034E-04
519966.93	4258223.26	7796.65888	0.11475	1.41792	0.11798	1.32869	1.48E-04	2.69E-07	2.91E-06	2.77E-07	2.62E-06	1.5427E-04
519899.77	4258589.82	7793.46269	0.23338	0.62311	0.25044	0.60332	1.48E-04	5.48E-07	1.28E-06	5.88E-07	1.19E-06	1.5174E-04
520070.38	4259669.84	7792.58681	11.1891	0.08236	10.84525	0.08016	1.48E-04	2.63E-05	1.69E-07	2.55E-05	1.58E-07	2.0018E-04
519960.43	4258255.9	7792.53952	0.12213	1.31109	0.12553	1.23445	1.48E-04	2.87E-07	2.69E-06	2

520070.41	4259689.84	7535.60043	9.66126	0.08024	9.07552	0.07812	1.43E-04	2.27E-05	1.65E-07	2.13E-05	1.54E-07	1.8754E-04
520030.77	4259669.91	7525.25702	6.06188	0.07928	10.48165	0.07794	1.43E-04	1.42E-05	1.63E-07	2.46E-05	1.53E-07	1.8220E-04
520098.54	4257904.85	7523.51768	0.08125	16.84107	0.08209	17.7278	1.43E-04	1.91E-07	3.45E-05	1.93E-07	3.49E-05	2.1283E-04
519947.74	425844	7506.52562	0.18441	1.11297	0.19106	1.04985	1.43E-04	4.33E-07	2.28E-06	4.49E-07	2.07E-06	1.4792E-04
519889.81	4258599.56	7504.24501	0.22283	0.57104	0.23829	0.55536	1.43E-04	5.23E-07	1.17E-06	5.59E-07	1.09E-06	1.4599E-04
520051.29	425784.69	7500.62366	0.08581	7.75292	0.08947	5.82602	1.43E-04	2.01E-07	1.59E-05	2.10E-07	1.15E-05	1.7035E-04
519840.84	4258692.13	7500.25121	0.19542	0.38111	0.20537	0.37308	1.43E-04	4.59E-07	7.82E-07	4.82E-07	7.34E-07	1.4502E-04
519947.32	4258439.27	7498.61926	0.20054	1.09675	0.20978	1.03369	1.43E-04	4.71E-07	2.25E-06	4.92E-07	2.03E-06	1.4778E-04
519939.36	4258492.68	7490.50484	0.22961	0.97239	0.24409	0.92238	1.42E-04	5.39E-07	1.99E-06	5.73E-07	1.82E-06	1.4730E-04
519955.83	4258247.82	7488.45771	0.11769	1.23952	0.12078	1.17013	1.42E-04	2.76E-07	2.54E-06	2.84E-07	2.30E-06	1.4775E-04
520060.51	4259689.86	7472.35959	12.35362	0.07944	15.97227	0.07761	1.42E-04	2.90E-05	1.63E-07	3.75E-05	1.53E-07	2.0885E-04
519929.48	4258521.81	7472.04466	0.23573	0.86039	0.25149	0.82117	1.42E-04	5.53E-07	1.76E-06	5.90E-07	1.62E-06	1.4655E-04
519976.54	4258159.37	7468.49598	0.10127	1.59187	0.1038	1.47802	1.42E-04	2.38E-07	3.26E-06	2.44E-07	2.91E-06	1.4862E-04
520061.14	4257964.73	7465.92086	0.08439	12.53169	0.0874	7.96796	1.42E-04	1.98E-07	2.57E-05	2.05E-07	1.57E-05	1.8370E-04
519942.98	425847.09	7460.44872	0.22066	1.02424	0.23374	0.96883	1.42E-04	5.18E-07	2.10E-06	5.49E-07	1.91E-06	1.4688E-04
520020.87	4259669.93	7458.42197	4.30148	0.0786	6.02906	0.07736	1.42E-04	1.01E-05	1.61E-07	1.42E-05	1.52E-07	1.6634E-04
519957.02	4258237.34	7455.10803	0.11505	1.25354	0.11809	1.18289	1.42E-04	2.70E-07	2.57E-06	2.77E-07	2.33E-06	1.4715E-04
520108.39	4257884.88	7452.15466	0.07968	11.1791	0.0801	13.45922	1.42E-04	1.87E-07	2.29E-05	1.88E-07	2.65E-05	1.9145E-04
519899.73	4258580.12	7447.23844	0.2271	0.62933	0.243	0.60876	1.42E-04	5.33E-07	1.29E-06	5.70E-07	1.20E-06	1.4515E-04
519958.12	425226.9	7412.3993	0.11249	1.2724	0.11549	1.19867	1.41E-04	2.64E-07	2.61E-06	2.71E-07	2.36E-06	1.4640E-04
520070.43	4259699.84	7412.1206	8.76311	0.07921	8.11911	0.07714	1.41E-04	2.06E-05	1.62E-07	1.91E-05	1.52E-07	1.8084E-04
519786.08	4258796.19	7409.45156	0.17016	0.26143	0.17565	0.2564	1.41E-04	3.99E-07	5.36E-07	4.12E-07	5.05E-07	1.4269E-04
519834.51	4258700.97	7405.26362	0.1912	0.36503	0.20028	0.35754	1.41E-04	4.48E-07	7.49E-07	4.70E-07	7.04E-07	1.4313E-04
520030.79	4259679.91	7402.81775	6.02065	0.07827	10.63062	0.07696	1.41E-04	1.41E-05	1.61E-07	2.50E-05	1.51E-07	1.8012E-04
519909.65	4258560.68	7400.97987	0.23062	0.69562	0.24607	0.66997	1.41E-04	5.41E-07	1.43E-06	5.78E-07	1.32E-06	1.4454E-04
519949.36	4258280.45	7398.30495	0.1252	1.15315	0.12818	1.09189	1.41E-04	2.94E-07	2.37E-06	3.01E-07	2.15E-06	1.4574E-04
519919.57	428541.25	7397.17552	0.2334	0.7713	0.24881	0.74008	1.41E-04	5.48E-07	1.58E-06	5.84E-07	1.46E-06	1.4478E-04
519950.63	4258269.94	7396.27518	0.12236	1.16845	0.12531	1.10609	1.41E-04	2.87E-07	2.40E-06	2.94E-07	2.18E-06	1.4574E-04
519965.1	428194.05	7392.99394	0.10614	1.37479	0.10887	1.28937	1.41E-04	2.49E-07	2.82E-06	2.56E-07	2.54E-06	1.4639E-04
519947.98	4258291	7385.58057	0.12809	1.13611	0.13112	1.07611	1.40E-04	3.01E-07	2.33E-06	3.08E-07	2.12E-06	1.4544E-04
519951.78	4258259.47	7380.21868	0.11957	1.1828	0.12251	1.11917	1.40E-04	2.81E-07	2.43E-06	2.88E-07	2.20E-06	1.4548E-04
520098.57	4257894.85	7360.38047	0.07972	16.80408	0.08051	17.65778	1.40E-04	1.87E-07	3.45E-05	1.89E-07	3.48E-05	2.0951E-04
519959.13	4258216.49	7359.86411	0.10999	1.28683	0.11291	1.21096	1.40E-04	2.58E-07	2.64E-06	2.65E-07	2.38E-06	1.4544E-04
519944.48	428373.4	7355.07039	0.1595	1.08467	0.16392	1.02734	1.40E-04	3.74E-07	2.22E-06	3.85E-07	2.02E-06	1.4481E-04
519807.29	4258751.35	7354.38277	0.1782	0.30238	0.18484	0.29631	1.40E-04	4.18E-07	6.20E-07	4.34E-07	5.83E-07	1.4185E-04
520060.53	425969.86	7350.70615	11.03371	0.07844	13.78763	0.07663	1.40E-04	2.59E-05	1.61E-07	3.24E-05	1.51E-07	1.9831E-04
519867.12	4258636.77	7348.19059	0.20777	0.46984	0.22054	0.45997	1.40E-04	4.88E-07	9.64E-07	5.18E-07	9.05E-07	1.4255E-04
520051.32	4257974.69	7341.8536	0.08411	7.74161	0.08768	5.7963	1.40E-04	1.97E-07	1.59E-05	2.06E-07	1.14E-05	1.6725E-04
519944.17	4258349.89	7341.14922	0.14851	1.08414	0.15236	1.02808	1.40E-04	3.48E-07	2.22E-06	3.58E-07	2.02E-06	1.4450E-04
519939.32	4258482.98	7339.40504	0.22212	0.97896	0.23557	0.92837	1.40E-04	5.21E-07	2.01E-06	5.53E-07	1.83E-06	1.4442E-04
520020.89	425969.93	7337.93586	4.26608	0.07761	6.00125	0.07639	1.39E-04	1.00E-05	1.59E-07	1.41E-05	1.50E-07	1.6389E-04
519857.12	4258655.32	7337.49849	0.20217	0.43335	0.21366	0.42495	1.39E-04	4.75E-07	8.89E-07	5.02E-07	8.37E-07	1.4217E-04
519966.06	4258183.67	7320.35955	0.10385	1.38871	0.10644	1.30093	1.39E-04	2.44E-07	2.85E-06	2.50E-07	2.56E-06	1.4505E-04
519847.12	4258673.87	7319.09416	0.19661	0.40136	0.20686	0.39375	1.39E-04	4.62E-07	8.23E-07	4.86E-07	7.75E-07	1.4167E-04
519944.42	4258397.79	7313.99113	0.17201	1.07845	0.17738	1.02	1.39E-04	4.04E-07	2.21E-06	4.16E-07	2.01E-06	1.4407E-04
520061.17	4257954.73	7310.8214	0.08276	12.51636	0.08567	7.92699	1.39E-04	1.94E-07	2.57E-05	2.01E-07	1.56E-05	1.8064E-04
519828.13	4258709.69	7300.58246	0.18686	0.34987	0.19522	0.34282	1.39E-04	4.39E-07	7.18E-07	4.58E-07	6.75E-07	1.4106E-04
519960.07	4258206.12	7299.85257	0.10757	1.29919	0.11038	1.22165	1.39E-04	2.53E-07	2.66E-06	2.59E-07	2.40E-06	1.4434E-04
519943.72	4258448.02	7295.5875	0.20244	1.04922	0.21248	0.99127	1.39E-04	4.75E-07	2.15E-06	4.99E-07	1.95E-06	1.4375E-04
520108.42	4257874.88	7294.95778	0.07823	11.14128	0.07859	13.46663	1.39E-04	1.84E-07	2.28E-05	1.85E-07	2.65E-05	1.8839E-04
520070.44	4259709.84	7291.81665	7.8666	0.07821	7.16082	0.07618	1.39E-04	1.85E-05	1.60E-07	1.68E-05	1.50E-07	1.7419E-04
519795.81	4258771.68	7286.06244	0.1725	0.28047	0.1784	0.275	1.38E-04	4.05E-07	5.75E-07	4.19E-07	5.41E-07	1.4044E-04
519945.11	4258302.18	7285.52685	0.13054	1.0999	0.13356	1.04325	1.38E-04	3.06E-07	2.26E-06	3.14E-07	2.05E-06	1.4341E-04
520030.81	4259689.91	7283.4377	5.95256	0.07728	10.62462	0.07599	1.38E-04	1.40E-05	1.58E-07	2.49E-05	1.50E-07	1.7767E-04
519944.18	4258422.63	7265.33986	0.18617	1.06677	0.19338	1.0079	1.38E-04	4.37E-07	2.19E-06	4.54E-07	1.98E-06	1.4316E-04
519822.21	4258719.55	7263.2403	0.18372	0.33605	0.19137	0.32941	1.38E-04	4.31E-07	6.89E-07	4.49E-07	6.48E-07	1.4028E-04
519929.44	4258512.11	7250.41231	0.22846	0.86679	0.24314	0.82706	1.38E-04	5.36E-07	1.78E-06	5.71E-07	1.63E-06	1.4233E-04
519943.8	4258312.7	7245.5484	0.13354	1.08136	0.13665	1.02675	1.38E-04	3.14E-07	2.22E-06	3.21E-07	2.02E-06	1.4260E-04
519966.95	4258173.32	7242.70025	0.10164	1.40442	0.10411	1.31378	1.38E-04	2.39E-07	2.88E-06	2.44E-07	2.59E-06	1.4362E-04
520060.54	4259709.86	7232.0975	9.57358	0.07745	11.39704	0.07568	1.37E-04	2.25E-05	1.59E-07	2.68E-05	1.49E-07	1.8701E-04
519879.85	425809.3	7223.1348	0.21279	0.52594	0.22682	0.51317	1.37E-04	5.00E-07	1.08E-06	5.33E-07	1.01E-06	1.4042E-04
520020.91	4259689.93	7220.32485	4.23336	0.07662	5.89534	0.07543	1.37E-04	9.94E-06	1.57E-07	1.38E-05	1.48E-07	1.6133E-04
520098.6	4257884.85	7205.4782	0.07825	16.76329	0.07899	17.90194	1.37E-04	1.84E-07	3.44E-05	1.85E-07	3.52E-05	2.0695E-04
519800.59	4258759.26	7203.83546	0.17346	0.29053	0.17957	0.28486	1.37E-04	4.07E-07	5.96E-07	4.22E-07	5.61E-07	1.3892E-04
519942.36	4258323.29	7193.9934	0.13665	1.06376	0.13987	1.01069	1.37E-04	3.21E-07	2.18E-06	3.28E-07	1.99E-06	1.4157E-04
520051.35	4257964.69	7188.96235	0.08247	7.73221	0.08594	5.754	1.37E-04	1.94E-07	1.59E-05	2.02E-07	1.13E-05	1.6423E-04
519888.77	4258589.86	7179.15401	0.21716	0.57694	0.23205	0.56028	1.36E-04	5.10E-07	1.18E-06	5.45E-07	1.10E-06	1.3980E-04
520070.46	4259719.84	7174.61957	7.01039	0.07723	6.10521	0.07524	1.36E-04	1.65E-05	1.58E-07	1.43E-05	1.48E-07	1.6747E-04
520030.82	4259699.91	7167.03323	5.803	0.07632	10.28282	0.07505	1.36E-04	1.36E-05	1.57E-07	2.41E-05	1.48E-07	1.7430E-04
520061.2	4257944.73	7161.83804	0.08119	12.50865	0.08399	7.89996	1.36E-04	1.91E-07	2.57E-05	1.97E-07	1.56E-05	1.7773E-04
519967.78	425162.99	7160.47962	0.09949	1.41739	0.10184	1.32414	1.36E-04	2.34E-07	2.91E-06	2.39E-07	2.61E-06	1.4209E-04
519815.84	4258728.3	7158.04355	0.17948	0.32266	0.18665	0.3163	1.36E-04	4.21E-07	6.62E-07	4.38E-07	6.23E-07	1.3821E-04
520108.45	4257864.88	7139.47084	0.0768	11.12303	0.07713	13.48321	1.36E-04	1.80E-07	2.28E-05	1.81E-07	2.65E-05	1.8542E-04
519789.12	4258779.6	7136.56743	0.16794	0.26993	0.1734	0.26478	1.36E-04	3.94E-07	5.54E-07	4.07E-07	5.21E-07	1.3753E-04
519899.69	4258570.42	7132.0117	0.2209	0.63516	0.2355	0.61399	1.36E-04	5.19E-07	1.30E-06	5.53E-07	1.21E-06	1.3915E-04
519941	4258381.84	7128.48	0.16091	1.04298	0.1654	0.98911	1.35E-04	3.78E-07	2.14E-06	3.88E-07	1.95E-06	1.4035E-04
519919.52	428531.55	7128.30961	0.22634	0.77709	0.24082	0.74557	1.35E-04	5.31E-07	1.59E-06	5.65E-07	1.47E-06	1.3965E-04
519940.51	4258358.78	7126.60966	0.14992	1.04099	0.15371	0.98862	1.35E-04	3.52E-07	2.13E-06	3.61E-07	1.95E-06	1.4026E-04
519940.12	4258456.77	7117.77234	0.20417	1.00401	0.21488	0.95107	1.35E-04	4.79E-07	2.06E-06	5.04E-07	1.87E-06	1.4021E-04
520060.56	4259719.86	7116.51655	9.41125	0.07647	8.79644	0.07474	1.35E-04	2.21E-05	1.57E-07	2.07E-05	1.47E-07	1.7832E-04
519909.61	4258550.99	7106.01266	0.22393	0.70103	0.23817	0.67534	1.35E-04	5.26E-07	1.44E-06	5.59E-07	1.33E-06	1.3892E-04
520020.92	4259699.93	7105.73378	4.13191	0.07561	5.67516	0.07449	1.35E-04	9.70E-06	1.55E-07	1.33E-05	1.47E-07	1.5839E-04
519946.87	4258251.51	7089.2089	0.11519	1.11977	0.11782	1.06127	1.35E-04	2.70E-07	2.30E-06	2.77E-07	2.09E-06	1.3960E-04
519940.91	4258406.32	7078.23637	0.17362	1.03602	0.17933	0.98108	1.35E-04	4.08E-07	2.12E-06	4.21E-07	1.93E-06	1.3943E-04
519948.14	425824.1	7071.80097	0.1127	1.13203	0.11533	1.07291	1.34E-04	2.65E-07	2.32E-06	2.71E-07	2.11E-06	1.3939E-04
520070.48	4259729.84	7060.3235	6.05315	0.07624	5.06903	0.0743	1.34E-04	1.42E-05	1.56E-07	1.19E-05	1.46E-07	1.6062E-04
519929.4	4258502.42	7057.31073	0.22143	0.87268	0.23503	0.8326	1.34E-04	5.20E-07	1.79E-06	5.52E-07	1.64E-06	1.3865E-04
520030.84	4259709.91	7053.6341	5.5637	0.07537	9.42302	0.07413	1.34E-04	1.31E-05	1.55E-07	2.21E-05	1.46E-07	1.6956E-04
520098.63	4257874.85	7052.88558	0.07682	16.73272	0.07751	17.80573	1.34E-04	1.80E-07	3.43E-05	1.82E-07	3.51E-05	2.0379E-04
519956.16	4258197.75	7052.29513	0.10416	1.23749	0.10677	1.16579	1.34E-04	2.45E-07	2.54E-06	2.51E-07	2.29E-06	1.3938E-04
519940.63	4258431.27	7049.6439	0.18794	1.02314	0.19587	0.96837	1.34E-04	4.41E-07	2.10E-06	4.60E-07	1.91E-06	1.3891E-04
519857.12	4258646.05	7047.08079	0.19814	0.43687	0.20964	0.42852	1.34E-04	4.65E-07	8.96E-07	4.92E-07	8.44E-07	1.3665E-04
520051.38	4257954.69	7044.25264	0.0809	7.72073	0.08427	5.72403	1.34E-04	1.90E-07	1.58E-05	1.98E-07	1.13E-05	1.6139E-04
519949.3	4258230.54	7043.99405	0.11027	1.14736	0.11291	1.08615	1.34E-04	2.59E-07	2.35E-06	2.65E-07	2.14E-06	1.3891E-04
519847.12	4258664.6	7031.70107	0.1928	0.40443	0.20313	0.39711	1.34E-04	4.53E-07	8.29E-07	4.77E-07	7.82E-07	1.3620E-04
520061.23	4257934.73	7022.27566	0.07969	12.49498	0.08238	7.88064	1.34E-04	1.87E-07	2.56E-05	1.93E-07	1.55E-05	1.7500E-04
519837.12	4258683.15	7011.43725	0.18749	0.37582	0.19676	0.36895	1.33E-04	4.40E-07	7.71E-07	4.62E-07	7.26E-07	1.3567E-04
519950.38	428220.1	7007.04133	0.10788	1.16161	0.11052	1.09815	1.33E-04	2.53E-07	2.38E-06	2.59E-07	2.16E-06	1.3825E-04
520060.58	4259729.86	7003.96195	7.60776	0.07552	6.63057	0.07382	1.33E-04	1.79E-05	1.55E-07	1.55E-05	1.45E-07	1.6686E-04
520020.94	4259709.93	6994.13656	3.97908	0.07474	5.34059	0.07358	1.33E-04	9.34E-06	1.53E-07	1.25E-05	1.45E-07	1.5512E-04
519957.17	4258187.34	6993.89141	0.10196	1.24977	0.10446	1.17621	1.33E-04	2.39E-07	2.56E-06	2.45E-07	2.32E-06	1.3830E-04
519782.41	4258787.46	6989.80186	0.1635	0.25999	0.16855	0.25514	1.33E-04	3.84E-07	5.33E-07	3.96E-07	5.02E-07	1.3468E-04
519941.9	4258273.54	6989.53392	0.11966	1.06072	0.12216	1.00792	1.33E-04	2.81E-07	2.18E-06	2.87E-07	1.98E-06	1.3759E-04
519943.13	4258263.04	6988.77989	0.11703	1.07344	0.11951	1.01965	1.33E-04	2.75E-07	2.20E-06	2.81E-07	2.01E-06	1.3761E-04
520108.48	4257854.88	6988.40894	0.07542	11.11171	0.07571	13.5012	1.33E-04	1.77E-07	2.28E-05	1.78E-07	2.66E-05	1.8256E-04
519940.57	4258284.08	6977.16028	0.12234	1.04669	0.12489	0.9949	1.33E-04	2.87E-07	2.15E-06	2.93E-07	1.96E-06	1.3731E-04
519936.52	4258465.52	6968.46208	0.2057	0.96133	0.2169	0.91301	1.32E-04	4.83E-07	1.97E-06	5.09E-07	1.80E-06	1.3722E-04
519951.39	428209.7	6962.04122	0.10556	1.17329	0.10816	1.10827	1.32E-04	2.48E-07	2.41E-06	2.54E-07	2.18E-06	1.3743E-04
519860.89	4258619.04	6955.69117	0.20335	0.48636	0.21606	0.47583	1.32E-04	4.77E-07	9.97E-07	5.07E-07	9.37E-07	1.3513E-04
519939.1	4258294.67	6949.12788	0.12504	1.03102	0.12766	0.98038	1.32E-04	2.94E-07	2.11E-06	3.00E-07	1.93E-06	1.3673E-04
520030.86	4259719.91	6943.07596	5.23477	0.07445	7.69295	0.07323	1.32E-04	1.23E-05	1.53E-07	1.81E-05	1.44E-07	1.6262E-04
519937.14	6933.04035	6933.04035	0.14107	1.00503	0.14433	0.9568	1.32E-04	3.31E-07	2.06E-06	3.39E-07	1.88E-06	1.3640E-04
519958.12	4258176.96	6930.01766	0.09983	1.26058	0.10221	1.18524	1.32E-04	2.34E-07	2.59E-06	2.40E-07	2.33E-06	1.3712E-04
519879.81	4258599.6	6920.93133	0.20772	0.53092	0.2214	0.51755	1.32E-04	4.88E-07	1.09E-06	5.20E-07	1.02E-06	1.3467E-04
519936.85	4258367.66	6908.22123	0.15133	1.00057	0.15508	0.95139	1.31E-04	3.55E-07	2.05E-06	3.64E-07	1.87E-06	1.3596E-04
520098.66	4257864.85	6906.06529	0.07543	16.70805	0.07608	17.80475	1.31E-04	1.77E-07	3.43E-05	1.79E-07	3.50E-05	2.0094E-04
520051.41	4257944.69	6904.34889	0.07938	7.71012	0.08265	5.69441	1.31E-04	1.86E-07	1.58E-05	1.94E-07	1.12E-05	1.5864E-04
519830.82	4258692.06	6903.48021	0.18282	0.36017	0.19176	0.35332	1.31E-04	4.29E-07	7.39E-07	4.50E-07	6.96E-07	1.3354E-04
519803.65	4258742.7	6902.42292	0.17102	0.2997	0.17717	0.29403	1.31E-04	4.02E-07	6.15E-07	4.16E-07	5.79E-07	1.3321E-04
519919.48	4258521.85	6896.436	0.21965	0.78275	0.23327	0.75082	1.31E-04	5.16E-07	1.61E-06	5.48E-07	1.48E-06	1.3524E-04
519929.36	4258492.72	6891.26245	0.21466	0.87826	0.22728	0.83788	1.31E-04	5.04E-07	1.80E-06	5.34E-07	1.65E-06	1.3548E-04
520020.96	4259719.93	6885.35314	3.77202	0.07384	4.8716	0.0727	1.31E-04	8.86E-06	1.51E-07	1.14E-05	1.43E-07	1.5147E-04
519889.73	4258580.16	6881.70142	0.21162	0.58216	0.22546	0.56492	1.31E-04	4.97E-07	1.19E-06	5.29E-07	1.11E-06	1.3414E-04
520061.27	4257924.73	6876.5578	0.07819	12.51659	0.08081	7.82316	1.31E-04	1.84E-07	2.57E-05	1.90E-07	1.54E-05	1.7215E-04
520109.07	425784.5.4	6862.65779	0.07422	10.8825	0.07447	13.27005	1.30E-04	1.74E-07	2.23E-05	1.75E-07	2.61E-05	1.7925E-04
519959.01	4258166.61	6861.37852	0.09775	1.27097	0.10002	1.1937	1.30E-04	2.29E-07	2.61E-06	2.35E-07	2.35E-06	1.3584E-04
519936.58	428305.7	6859.64722	0.12743	1.00253	0.13008	0.95456	1.30E-04	2.99E-07	2.06E-06	3.05E-07	1.88E-06	1.3493E-04
519937.4	4258414.86	6854.10334	0.17518	0.99536	0.1814	0.94396	1.30E-04	4.11E-07	2.04E-06	4.26E-07	1.86E-06	1.3502E-04
519937.08	428439.9	6853.01603	0.18961	0.98139	0.19827	0.93084	1.30E-04	4.45E-07	2.01E-06	4.65E-07	1.83E-06	1.3502E-04
519932.92	4258474.27	6847.08039	0.20707	0.92151	0.21862	0.87712	1.30E-04	4.86E-07	1.89E-06	5.13E-07	1.73E-06	1.3477E-04
519899.65	4258560.73	6846.78683	0.21483	0.64028	0.22819	0.61891	1.30E-04	5.04E-07	1.31E-06	5.36E-07	1.22E-06	1.3372E-04
519792.08	4258762.84	6845.44117	0.16556	0.27833	0.17096	0.27316	1.30E-04	3.89E-07	5.71E-07	4.01E-07	5.38E-07	1.3202E-04
519909.57	4258541.29	6841.76415	0.21742	0.70612	0.23071	0.68036	1.30E-04	5.10E-07	1.45E-06	5.42E-07	1.34E-06	1.3389E-04
520030.87	4259729.91	6835.18141	4.69454	0.07355	5.81229	0.07234	1.30E-04	1.10E-05	1.51E-07	1.36E-05	1.42E-07	1.5488E-04
519824.46	4258700.84	6821.15903	0.17901	0.34547	0.18708	0.33912	1.30E-04	4.20E-07	7.09E-07	4.39E-07	6.68E-07	1.3189E-04
519935.2	4258316.25	6803.31048	0.13022	0.98557	0.13296	0.9395	1.29E-04	3.06E-07	2.02E-06	3.12E-07	1.85E-06	1.3381E-04
520020.97	4259729.93	6779.0976	3.50959	0.07296	4.24388	0.07183	1.29E-04	8.24E-06	1.50E-07	9.96E-06	1.41E-07	1.4735E-04
519818.44	4258710.45	6775.0508	0.17577	0.33203	0.18319	0.32595	1.29E-04	4.13E-07	6.81E-07	4.30E-07	6.42E-07	1.3095E-04
519857.12	4258636.77	6774.93955	0.19423	0.44035	0.2056	0.43199	1.29E-04	4.56E-07	9.03E-07	4.83E-07	8.50E-07	1.3147E-04
520051.45	4257934.69	6772.9714	0.07794	7.70002	0.08109	5.6744	1.29E-04	1.83E-07	1.58E-05	1.90E-07	1.12E-05	1.5608E-04
519796.98	4258750.66	6770.78106	0.16663	0.28816	0.1723	0.28281	1.29E-04	3.91E-07	5.91E-07	4.05E-07	5.57E-07	1.3064E-04
520098.69	4257854.85	6764.69323	0.0741	16.6903	0.0747	17.90184	1.29E-04	1.74E-07	3.42E-05	1.75E-07	3.52E-05	1.9840E-04
519847.12	4258655.32	6760.62979	0.18911	0.40751	0.19951	0.40034	1.29E-04	4.44E-07	8.36E-07	4.68E-07	7.88E-07	1.3104E-04
519929.32	4258483.02	6750.74658	0.20816	0.8837	0.21992	0.84298	1.28E-04	4.89E-07	1.81E-06	5.16E-07	1.66E-06	1.3280E-04
520061.3	4257914.73	6747.90029	0.0768	12.48265	0.07929	7.78197	1.28E-04	1.80E-07	2.56E-05	1.86E-07	1.53E-05	1.6955E-04
519837.12	4258673.87	6743.65715	0.18403	0.37851	0.19334	0.37204	1.28E-04	4.32E-07	7.76E-07	4.54E-07	7.32E-07	1.3058E-04
519933.52	428351.5	6737.12968	0.14232	0.96742	0.14552	0.92209	1.28E-04	3.34E-07	1.98E-06	3.42E-07	1.82E-06	1.3254E-04
519947.21	4258201.44	6723.43418	0.1022	1.11549	0.10457	1.05584	1.28E-04	2.40E-07	2.29E-06	2.45E-07	2.08E-06	1

519929.54	4258385.44	6468.69579	0.15406	0.92588	0.15807	0.88219	1.23E-04	3.62E-07	1.90E-06	3.71E-07	1.74E-06	1.2733E-04
519930.38	4258431.92	6456.49702	0.17815	0.91976	0.18567	0.87532	1.23E-04	4.18E-07	1.89E-06	4.36E-07	1.72E-06	1.2719E-04
519928.05	4258309.22	6456.39314	0.12435	0.91778	0.12669	0.8769	1.23E-04	2.92E-07	1.88E-06	2.97E-07	1.73E-06	1.2692E-04
520109.16	4257815.4	6446.81247	0.0704	10.87249	0.07059	13.21919	1.23E-04	1.65E-07	2.23E-05	1.66E-07	2.60E-05	1.7119E-04
519859.89	4258619.08	6437.83788	0.19035	0.45497	0.20162	0.4461	1.22E-04	4.47E-07	9.33E-07	4.73E-07	8.78E-07	1.2510E-04
519788.36	4258753.99	6427.32647	0.15901	0.27602	0.16407	0.27112	1.22E-04	3.73E-07	5.66E-07	3.85E-07	5.34E-07	1.2403E-04
519869.81	4258599.64	6413.80519	0.19428	0.49488	0.2064	0.48354	1.22E-04	4.56E-07	1.01E-06	4.85E-07	9.52E-07	1.2482E-04
519926.43	4258465.8	6410.55874	0.19373	0.86818	0.20373	0.82908	1.22E-04	4.55E-07	1.78E-06	4.78E-07	1.63E-06	1.2620E-04
519938.26	4258205.13	6408.20397	0.10027	1.01237	0.10229	0.96167	1.22E-04	2.35E-07	2.08E-06	2.40E-07	1.89E-06	1.2625E-04
519909.48	4258521.89	6392.2602	0.20527	0.7157	0.21709	0.68947	1.22E-04	4.82E-07	1.47E-06	5.10E-07	1.36E-06	1.2532E-04
519879.73	4258580.2	6386.59745	0.19782	0.54049	0.21004	0.52583	1.21E-04	4.64E-07	1.11E-06	4.93E-07	1.04E-06	1.2450E-04
519926.52	4258344.25	6385.20361	0.13537	0.90165	0.13807	0.86201	1.21E-04	3.18E-07	1.85E-06	3.24E-07	1.70E-06	1.2556E-04
520099.34	4257825.37	6383.98464	0.07045	16.22589	0.07092	17.80294	1.21E-04	1.65E-07	3.33E-05	1.66E-07	3.50E-05	1.9000E-04
519939.41	4258194.67	6376.04332	0.09827	1.02282	0.10031	0.97068	1.21E-04	2.31E-07	2.10E-06	2.35E-07	1.91E-06	1.2567E-04
520051.54	4257904.69	6375.94371	0.07374	7.67788	0.07667	5.49728	1.21E-04	1.73E-07	1.57E-05	1.80E-07	1.08E-05	1.4812E-04
519820.79	4258692	6374.99961	0.17151	0.34085	0.17958	0.33502	1.21E-04	4.03E-07	6.99E-07	4.22E-07	6.59E-07	1.2336E-04
519793.36	4258742.07	6363.03174	0.16022	0.28543	0.16552	0.28048	1.21E-04	3.76E-07	5.85E-07	3.89E-07	5.52E-07	1.2285E-04
519889.65	4258560.77	6360.81428	0.20075	0.59164	0.21241	0.57366	1.21E-04	4.71E-07	1.21E-06	4.99E-07	1.13E-06	1.2422E-04
519930.37	4258248.34	6360.26945	0.10806	0.95836	0.10984	0.8949	1.21E-04	2.54E-07	1.92E-06	2.58E-07	1.76E-06	1.2509E-04
519919.36	4258492.76	6359.25106	0.20109	0.79771	0.21211	0.76486	1.21E-04	4.72E-07	1.64E-06	4.98E-07	1.51E-06	1.2499E-04
519931.68	4258237.81	6358.54552	0.10588	0.95027	0.10767	0.90553	1.21E-04	2.49E-07	1.95E-06	2.53E-07	1.78E-06	1.2510E-04
519899.57	4258541.33	6351.19955	0.20312	0.64921	0.21464	0.6278	1.21E-04	4.77E-07	1.33E-06	5.04E-07	1.24E-06	1.2427E-04
519928.95	4258258.91	6350.60933	0.11025	0.92431	0.11204	0.88245	1.21E-04	2.59E-07	1.90E-06	2.63E-07	1.74E-06	1.2487E-04
520061.39	4257884.73	6348.45699	0.0727	12.51728	0.07501	7.53349	1.21E-04	1.71E-07	2.57E-05	1.76E-07	1.48E-05	1.6152E-04
519932.89	4258227.32	6346.47612	0.10373	0.95786	0.10553	0.91287	1.21E-04	2.44E-07	1.96E-06	2.48E-07	1.80E-06	1.2489E-04
519926.3	4258369.06	6339.5932	0.14481	0.89843	0.14803	0.8579	1.21E-04	3.40E-07	1.84E-06	3.48E-07	1.69E-06	1.2472E-04
519940.48	4258184.24	6337.14972	0.09631	1.03207	0.09834	0.97858	1.20E-04	2.26E-07	2.12E-06	2.31E-07	1.93E-06	1.2496E-04
519814.67	4258701.35	6331.80584	0.16853	0.32768	0.17574	0.32228	1.20E-04	3.96E-07	6.72E-07	4.13E-07	6.34E-07	1.2247E-04
519934.02	4258216.87	6326.86661	0.10164	0.96971	0.10349	0.92301	1.20E-04	2.39E-07	1.99E-06	2.43E-07	1.82E-06	1.2455E-04
520109.19	4257805.4	6320.84576	0.06922	10.86594	0.06937	13.30176	1.20E-04	1.63E-07	2.23E-05	1.63E-07	2.62E-05	1.6894E-04
519781.72	4258762.02	6314.98047	0.1551	0.26589	0.15975	0.26125	1.20E-04	3.64E-07	5.45E-07	3.75E-07	5.14E-07	1.2184E-04
519922.87	4258474.43	6312.0087	0.19472	0.83441	0.2049	0.79841	1.20E-04	4.57E-07	1.71E-06	4.81E-07	1.57E-06	1.2420E-04
519941.48	4258173.84	6292.4766	0.0944	1.04121	0.0964	0.98606	1.20E-04	2.22E-07	2.14E-06	2.26E-07	1.94E-06	1.2413E-04
519926.87	4258440.45	6288.57288	0.1795	0.88439	0.18757	0.84342	1.20E-04	4.21E-07	1.81E-06	4.40E-07	1.66E-06	1.2387E-04
519927.11	4258415.61	6280.25352	0.16654	0.89631	0.17251	0.85409	1.19E-04	3.91E-07	1.84E-06	4.05E-07	1.68E-06	1.2360E-04
519847.12	4258636.77	6268.8978	0.18204	0.41364	0.1923	0.40647	1.19E-04	4.27E-07	8.48E-07	4.51E-07	8.00E-07	1.2169E-04
519925.83	4258270.19	6259.78338	0.11198	0.895	0.11375	0.85575	1.19E-04	2.63E-07	1.84E-06	2.67E-07	1.68E-06	1.2304E-04
520099.37	4257815.37	6258.72695	0.06926	16.22535	0.06969	17.83727	1.19E-04	1.63E-07	3.33E-05	1.64E-07	3.51E-05	1.8768E-04
520051.57	4257894.69	6258.52668	0.07246	7.66659	0.0753	5.4807	1.19E-04	1.70E-07	1.57E-05	1.77E-07	1.08E-05	1.4582E-04
519808.35	4258710.24	6257.58902	0.16497	0.31504	0.17156	0.30987	1.19E-04	3.87E-07	6.46E-07	4.03E-07	6.10E-07	1.2099E-04
519925.89	4258394.32	6255.64156	0.15539	0.89121	0.15976	0.85005	1.19E-04	3.65E-07	1.83E-06	3.75E-07	1.67E-06	1.2315E-04
519837.12	4258655.32	6251.64521	0.17737	0.38393	0.18683	0.37777	1.19E-04	4.16E-07	7.87E-07	4.39E-07	7.44E-07	1.2112E-04
519924.46	4258280.74	6240.46558	0.11433	0.88497	0.11617	0.84639	1.19E-04	2.68E-07	1.82E-06	2.73E-07	1.67E-06	1.2264E-04
519827.12	4258673.87	6234.44855	0.17272	0.35755	0.18121	0.35202	1.19E-04	4.05E-07	7.33E-07	4.25E-07	6.93E-07	1.2076E-04
519923.06	4258328.41	6232.51941	0.12801	0.87227	0.13033	0.83513	1.18E-04	3.01E-07	1.79E-06	3.06E-07	1.64E-06	1.2251E-04
519919.32	4258483.06	6231.77005	0.19541	0.8023	0.2057	0.76917	1.18E-04	4.59E-07	1.65E-06	4.83E-07	1.51E-06	1.2256E-04
520061.42	4257874.73	6228.35784	0.07145	12.50541	0.07368	7.49474	1.18E-04	1.68E-07	2.56E-05	1.73E-07	1.48E-05	1.5913E-04
519900.44	4258512.2	6206.4964	0.19961	0.72021	0.21073	0.69366	1.18E-04	4.69E-07	1.48E-06	4.95E-07	1.37E-06	1.2178E-04
519922.97	4258291.34	6204.98188	0.11669	0.87439	0.11863	0.83638	1.18E-04	2.74E-07	1.79E-06	2.79E-07	1.65E-06	1.2194E-04
519775.06	4258770	6203.85644	0.15129	0.25632	0.15556	0.25191	1.18E-04	3.55E-07	5.26E-07	3.65E-07	4.96E-07	1.1967E-04
520109.23	4257795.4	6201.34808	0.0681	10.84914	0.0682	13.2989	1.18E-04	1.60E-07	2.23E-05	1.60E-07	2.62E-05	1.6663E-04
519922.95	4258352.94	6200.02403	0.13647	0.86999	0.13913	0.83257	1.18E-04	3.20E-07	1.78E-06	3.27E-07	1.64E-06	1.2192E-04
519859.85	4258609.38	6193.48644	0.18626	0.45865	0.19732	0.4495	1.18E-04	4.37E-07	9.41E-07	4.63E-07	8.85E-07	1.2045E-04
519802.96	4258717.25	6182.07643	0.16184	0.30497	0.16795	0.3	1.18E-04	3.80E-07	6.25E-07	3.94E-07	5.91E-07	1.1950E-04
519869.77	4258589.94	6172.34012	0.18982	0.4993	0.20148	0.48723	1.17E-04	4.46E-07	1.02E-06	4.73E-07	9.59E-07	1.2023E-04
519921.33	4258302	6152.27984	0.11904	0.86026	0.12103	0.82356	1.17E-04	2.79E-07	1.76E-06	2.84E-07	1.62E-06	1.2089E-04
519879.69	4258570.51	6149.92484	0.19295	0.54498	0.20426	0.52977	1.17E-04	4.53E-07	1.12E-06	4.80E-07	1.04E-06	1.1999E-04
519923.36	4258448.98	6143.09017	0.18072	0.85066	0.18919	0.81302	1.17E-04	4.24E-07	1.74E-06	4.44E-07	1.60E-06	1.2098E-04
520051.6	4257884.69	6140.59962	0.07121	7.65046	0.07397	5.4346	1.17E-04	1.67E-07	1.57E-05	1.74E-07	1.07E-05	1.4345E-04
519899.52	4258531.63	6140.45795	0.19765	0.65335	0.20856	0.63182	1.17E-04	4.64E-07	1.34E-06	4.90E-07	1.24E-06	1.2026E-04
520099.41	4257805.37	6137.702	0.06811	16.21707	0.0685	17.86632	1.17E-04	1.60E-07	3.33E-05	1.61E-07	3.52E-05	1.8546E-04
519922.68	4258377.85	6137.28598	0.14604	0.86655	0.14946	0.82809	1.17E-04	3.43E-07	1.78E-06	3.51E-07	1.63E-06	1.2076E-04
519889.61	4258551.07	6125.11874	0.19531	0.59543	0.20601	0.57751	1.16E-04	4.59E-07	1.22E-06	4.84E-07	1.14E-06	1.1973E-04
520061.45	4257864.73	6111.72111	0.07023	12.47987	0.07239	7.46351	1.16E-04	1.65E-07	2.56E-05	1.70E-07	1.47E-05	1.5677E-04
519929.31	4258208.83	6106.07691	0.09835	0.91936	0.09995	0.87662	1.16E-04	2.31E-07	1.89E-06	2.35E-07	1.73E-06	1.2014E-04
519923.64	4258424.05	6099.46161	0.16782	0.86341	0.17438	0.82414	1.16E-04	3.94E-07	1.77E-06	4.09E-07	1.62E-06	1.2014E-04
519930.53	4258198.34	6082.58285	0.09644	0.92771	0.09808	0.88392	1.16E-04	2.26E-07	1.90E-06	2.30E-07	1.74E-06	1.1972E-04
519796.37	4258725.4	6082.51532	0.15801	0.29338	0.16355	0.28867	1.16E-04	3.71E-07	6.02E-07	3.84E-07	5.68E-07	1.1754E-04
520109.26	4257785.4	6077.96375	0.06696	10.87062	0.06705	13.30878	1.16E-04	1.57E-07	2.23E-05	1.57E-07	2.62E-05	1.6434E-04
519919.52	4258337.01	6066.22065	0.12901	0.84283	0.13127	0.80772	1.15E-04	3.03E-07	1.73E-06	3.08E-07	1.59E-06	1.1924E-04
519931.66	4258187.88	6056.91333	0.09458	0.93733	0.09627	0.89218	1.15E-04	2.22E-07	1.92E-06	2.26E-07	1.76E-06	1.1926E-04
519922.23	4258403.21	6051.37079	0.15668	0.85799	0.16157	0.81936	1.15E-04	3.68E-07	1.76E-06	3.79E-07	1.61E-06	1.1915E-04
519922.87	4258241.44	6040.50316	0.1037	0.87068	0.10516	0.8317	1.15E-04	2.43E-07	1.79E-06	2.47E-07	1.64E-06	1.1873E-04
519924.15	4258230.93	6039.13421	0.10168	0.87755	0.10311	0.83848	1.15E-04	2.39E-07	1.80E-06	2.42E-07	1.65E-06	1.1873E-04
519909.4	4258502.5	6039.26254	0.1941	0.72435	0.20447	0.69756	1.15E-04	4.56E-07	1.49E-06	4.80E-07	1.37E-06	1.1859E-04
519784.64	4258745.14	6036.21288	0.15292	0.27329	0.15761	0.2688	1.15E-04	3.59E-07	5.60E-07	3.70E-07	5.29E-07	1.1656E-04
519921.49	4258252	6030.97077	0.10575	0.85773	0.10721	0.82055	1.15E-04	2.48E-07	1.76E-06	2.52E-07	1.62E-06	1.1851E-04
519925.33	4258220.45	6029.43099	0.09969	0.88582	0.10113	0.84588	1.15E-04	2.34E-07	1.82E-06	2.37E-07	1.67E-06	1.1856E-04
519837.12	4258646.05	6029.2572	0.17418	0.38664	0.18361	0.38049	1.15E-04	4.09E-07	7.93E-07	4.31E-07	7.49E-07	1.1699E-04
520051.63	4257874.69	6026.30812	0.06999	7.62966	0.07267	5.38786	1.15E-04	1.64E-07	1.56E-05	1.71E-07	1.06E-05	1.4114E-04
519919.85	4258457.51	6020.80372	0.18179	0.81863	0.19051	0.78405	1.14E-04	4.27E-07	1.68E-06	4.47E-07	1.54E-06	1.1854E-04
520099.44	4257795.37	6019.5978	0.06699	16.21919	0.06735	17.85708	1.14E-04	1.57E-07	3.33E-05	1.58E-07	3.52E-05	1.8315E-04
519932.72	4258177.46	6019.34744	0.09274	0.94332	0.09444	0.89709	1.14E-04	2.18E-07	1.93E-06	2.22E-07	1.77E-06	1.1856E-04
519919.37	4258361.63	6012.27523	0.13754	0.83982	0.14026	0.8044	1.14E-04	3.23E-07	1.72E-06	3.29E-07	1.58E-06	1.1824E-04
520172.84	4257692.52	6011.40844	0.06294	3.36277	0.06206	2.90458	1.14E-04	1.48E-07	6.90E-06	1.46E-07	5.72E-06	1.2717E-04
519827.12	4258664.6	6010.33995	0.1697	0.35994	0.1783	0.35456	1.14E-04	3.98E-07	7.38E-07	4.19E-07	6.98E-07	1.1650E-04
519919.99	4258262.61	5999.32658	0.10773	0.84301	0.10923	0.8075	1.14E-04	2.53E-07	1.73E-06	2.56E-07	1.59E-06	1.1786E-04
520061.48	4257854.73	5998.70329	0.06905	12.44024	0.07114	7.41443	1.14E-04	1.62E-07	2.55E-05	1.67E-07	1.46E-05	1.5446E-04
519817.12	4258683.15	5994.48074	0.16528	0.33617	0.17291	0.3312	1.14E-04	3.88E-07	6.89E-07	4.06E-07	6.52E-07	1.1608E-04
519789.75	4258733.47	5982.55073	0.15424	0.28242	0.15926	0.27794	1.14E-04	3.62E-07	5.79E-07	3.74E-07	5.47E-07	1.1558E-04
519849.89	4258619.12	5980.35301	0.17863	0.42661	0.18874	0.41908	1.14E-04	4.19E-07	8.75E-07	4.43E-07	8.25E-07	1.1624E-04
519859.81	4258599.68	5968.33217	0.18224	0.4624	0.19301	0.4528	1.13E-04	4.28E-07	9.48E-07	4.53E-07	8.91E-07	1.1617E-04
520109.29	4257775.4	5954.35152	0.06583	10.902	0.06592	12.95111	1.13E-04	1.55E-07	2.24E-05	1.55E-07	2.55E-05	1.6134E-04
519899.48	4258521.94	5950.21669	0.19241	0.65734	0.20274	0.63562	1.13E-04	4.52E-07	1.35E-06	4.76E-07	1.25E-06	1.1663E-04
519869.73	4258580.25	5950.03427	0.18542	0.50348	0.19638	0.49078	1.13E-04	4.35E-07	1.03E-06	4.61E-07	9.66E-07	1.1599E-04
519919.07	4258386.63	5938.90916	0.14722	0.83548	0.15097	0.79925	1.13E-04	3.46E-07	1.71E-06	3.54E-07	1.57E-06	1.1687E-04
519778.03	4258753.24	5938.20466	0.14928	0.26345	0.15359	0.25914	1.13E-04	3.50E-07	5.40E-07	3.61E-07	5.10E-07	1.1464E-04
519920.16	4258432.49	5936.40918	0.16902	0.8316	0.17605	0.79543	1.13E-04	3.97E-07	1.71E-06	4.13E-07	1.57E-06	1.1692E-04
519879.65	4258560.81	5932.04483	0.18818	0.5489	0.19858	0.53349	1.13E-04	4.42E-07	1.13E-06	4.66E-07	1.05E-06	1.1584E-04
519916.01	4258321.27	5926.95631	0.12223	0.81568	0.12418	0.78263	1.13E-04	2.87E-07	1.67E-06	2.92E-07	1.54E-06	1.1645E-04
519916.34	4258466.04	5921.05148	0.18271	0.78843	0.19159	0.7565	1.13E-04	4.29E-07	1.62E-06	4.50E-07	1.49E-06	1.1653E-04
520051.66	4257864.69	5918.74349	0.06883	7.60149	0.07143	5.36554	1.13E-04	1.62E-07	1.56E-05	1.68E-07	1.06E-05	1.3899E-04
519917.18	4258273.76	5917.48786	0.10942	0.8203	0.11094	0.7866	1.12E-04	2.57E-07	1.68E-06	2.60E-07	1.55E-06	1.1623E-04
519810.89	4258692.25	5916.15397	0.16147	0.32317	0.16882	0.31814	1.12E-04	3.79E-07	6.63E-07	3.96E-07	6.26E-07	1.1452E-04
519888.57	4258541.37	5913.69721	0.19017	0.59905	0.20018	0.58117	1.12E-04	4.46E-07	1.23E-06	4.70E-07	1.14E-06	1.1570E-04
520099.47	4257785.37	5904.31568	0.06589	16.22502	0.06622	17.71991	1.12E-04	1.55E-07	3.33E-05	1.55E-07	3.49E-05	1.8070E-04
519915.74	4258284.33	5898.93965	0.11172	0.81392	0.11333	0.78049	1.12E-04	2.62E-07	1.67E-06	2.66E-07	1.54E-06	1.1586E-04
519909.36	4258492.8	5894.34839	0.18884	0.72826	0.1985	0.70127	1.12E-04	4.43E-07	1.49E-06	4.66E-07	1.38E-06	1.1582E-04
519915.98	4258345.62	5892.75822	0.12996	0.81424	0.1322	0.78113	1.12E-04	3.05E-07	1.67E-06	3.10E-07	1.54E-06	1.1583E-04
520172.87	4257682.52	5888.27556	0.06192	3.40753	0.06109	2.736	1.12E-04	1.45E-07	6.99E-06	1.43E-07	5.39E-06	1.2459E-04
520060.13	4257845.25	5868.54183	0.06778	11.39669	0.06986	7.00797	1.12E-04	1.59E-07	2.34E-05	1.64E-07	1.38E-05	1.4904E-04
520163.05	4257692.49	5864.90075	0.06218	4.37655	0.06146	3.63197	1.11E-04	1.46E-07	8.98E-06	1.44E-07	7.15E-06	1.2790E-04
519804.61	4258701.21	5862.46581	0.15848	0.31091	0.165	0.30629	1.11E-04	3.72E-07	6.38E-07	3.87E-07	6.03E-07	1.1343E-04
519918.57	4258412.1	5859.73106	0.15793	0.82556	0.16334	0.78985	1.11E-04	3.71E-07	1.69E-06	3.83E-07	1.55E-06	1.1539E-04
519914.17	4258294.97	5851.67177	0.11392	0.80369	0.1156	0.77087	1.11E-04	2.67E-07	1.65E-06	2.71E-07	1.52E-06	1.1493E-04
520109.32	4257765.4	5846.53238	0.0648	10.93101	0.06485	13.28524	1.11E-04	1.52E-07	2.24E-05	1.52E-07	2.62E-05	1.6001E-04
519912.83	4258474.57	5841.56923	0.18339	0.75952	0.19234	0.73007	1.11E-04	4.31E-07	1.56E-06	4.52E-07	1.44E-06	1.1491E-04
519771.39	4258761.27	5841.19614	0.14573	0.25408	0.14966	0.24997	1.11E-04	3.42E-07	5.21E-07	3.51E-07	4.92E-07	1.1274E-04
519915.8	4258370.31	5826.47261	0.13862	0.8113	0.14152	0.77764	1.11E-04	3.25E-07	1.66E-06	3.32E-07	1.53E-06	1.1460E-04
519837.12	4258636.77	5822.66797	0.17106	0.38929	0.18035	0.38314	1.11E-04	4.02E-07	7.98E-07	4.23E-07	7.54E-07	1.1306E-04
519920.36	4258212.52	5816.32834	0.09644	0.8411	0.09766	0.80397	1.11E-04	2.26E-07	1.78E-06	2.29E-07	1.58E-06	1.1432E-04
520051.7	4257854.7	5813.08554	0.0677	7.57142	0.07021	5.33075	1.10E-04	1.59E-07	1.55E-05	1.65E-07	1.05E-05	1.3684E-04
519799.29	4258708.54	5806.0431	0.15573	0.30112	0.16171	0.29671	1.10E-04	3.66E-07	6.18E-07	3.80E-07	5.84E-07	1.1231E-04
519921.64	4258202	5804.22899	0.09463	0.84922	0.09589	0.81114	1.10E-04	2.22E-07	1.74E-06	2.25E-07	1.60E-06	1.1411E-04
519827.12	4258655.32	5801.31106	0.16677	0.36234	0.17541	0.35702	1.10E-04	3.92E-07	7.43E-07	4.12E-07	7.03E-07	1.1252E-04
519916.69	4258440.94	5793.48501	0.17013	0.80112	0.17749	0.768	1.10E-04	3.99E-07	1.64E-06	4.17E-07	1.51E-06	1.1409E-04
520099.5	4257775.37	5792.23342	0.06483	16.23586	0.06513	17.52899	1.10E-04	1.52E-07	3.33E-05	1.53E-07	3.45E-05	1.7821E-04
519922.84	4258191.52	5784.94191	0.09285	0.85652	0.09415	0.81746	1.10E-04	2.18E-07	1.76E-06	2.21E-07	1.61E-06	1.1377E-04
519817.12	4258673.87	5782.55004	0.16249	0.33827	0.17026	0.33353	1.10E-04	3.81E-07	6.94E-07	4.00E-07	6.57E-07	1.1205E-04
519899.44	4258512.24	5779.73895	0.18738	0.66117	0.19715	0.63919	1.10E-04	4.40E-07	1.36E-06	4.63E-07	1.26E-06	1.1338E-04
519909.32	4258483.1	5776.0431	0.18388	0.73229	0.19294	0.70502	1.10E-04	4.32E-07	1.50E-06	4.53E-07	1.39E-06	1.1357E-04
519912.5	4258329.8	5771.00602	0.12311	0.78905	0.125	0.75784	1.10E-04	2.89E-07	1.62E-06	2.93E-07	1.49E-06	1.1339E-04
519849.85	4258609.42	5769.93113	0.17499	0.42972	0.18487	0.42202	1.10E-04	4.11E-07	8.81E-07	4.34E-07	8.31E-07	1.1223E-04
519923.96	4258181.07	5763.12141	0.09112	0.86451	0.09248	0.82426	1.10E-04	2.14E-07	1.77E-06	2.17E-07	1.62E-06	1.1337E-04
520060.16	4257835.25	5762.08946	0.06667	11.34629	0.06868	6.9518	1.10E-04	1.57E-07	2.33E-05	1.61E-07	1.37E-05	1.4680E-04
519859.77	4258589.99	5758.54202	0.17824	0.46623	0.18863	0.456	1.09E-04	4.18E-07	9.56E-07	4.43E-07	8.88E-07	1.1217E-04
519915.46	4258395.41	5747.79105	0.14837	0.80578	0.15257	0.77174	1.09E-04	3.48E-07	1.65E-06	3.58E-07	1.52E-06	1.1313E-04
520163.08	4257682.49	5746.96348	0.06118	4.6188	0.0605	3.41863	1.09E-04	1.44E-07	9.47E-06	1.42E-07	6.73E-06	1.2573E-04
519915.4	4258234.54	5746.74097	0.09964	0.80835	0.1008	0.77367	1.09E-04	2.34E-07	1.66E-06	2.37E-07	1.52E-06	1.1289E-04
519916.65	4258224.04	5746.31655	0.09776	0.81421	0.09888	0.77919	1.09E-04	2.30E-07	1.67E-06	2.32E-07	1.53E-06	1.1289E-04
520109.35	4257755.4	5743.41427	0.06381	10.96995	0.06381	13.33335	1.09E-04	1.50E-07	2.25E-05	1.50E-07	2.62E-05	1.5822E-04
519869.69	4258570.55	5742.85232	0.18107	0.50732	0.19119	0.49418	1.09E-04	4.25E-07	1.04E-06	4.49E-07	9.73E-07	1.1205E-04
519914.06	4258245.08	5737.96596	0.10155	0.79924	0.10275	0.76557	1.09E-04	2.38E-07	1.64E-06	2.41E-07	1.51E-06	1.1269E-04
519879.61	4258551.11	5731.71636	0.18354	0.55239	0.19319	0.53697	1.09E-04	4.31E-07	1.13E-06	4.56E-07	1.06E-06	1.1202E-04
519889.52	4258531.68	5725.39543	0.18533	0.60255	0.19484	0.58462	1.09E-04	4.35E-07	1.24E-06	4.57E-07	1.15E-06	1.1211E-04
519912.44	4258354.23	5721.54258	0.13095	0.78775	0.13326	0.75618	1.09E-04	3.07E-07	1.62E-06	3.13E-07	1.49E-06	1.1248E-04
519792.73	4258716.75	5716.97485	0.15213	0.28986	0.15755	0.28564	1.09E-04	3.57E-07	5.94E-07	3.70E-07	5.62E-07	1.1055E-04
519912.61	4258255.67	5712.31185	0.10342	0.78621	0.10466	0.75424	1.09E-04	2.43E-07	1.61E-06	2.46E-07

520050.4	4257825.22	5490.44184	0.06434	7.04157	0.06671	4.95263	1.04E-04	1.51E-07	1.44E-05	1.57E-07	9.75E-06	1.2886E-04
519899.36	4258492.84	5488.95467	0.17782	0.66805	0.18639	0.64563	1.04E-04	4.17E-07	1.37E-06	4.38E-07	1.27E-06	1.0783E-04
519905.14	4258323.44	5486.45789	0.11775	0.73813	0.11932	0.71024	1.04E-04	2.76E-07	1.51E-06	2.80E-07	1.40E-06	1.0776E-04
520099.59	4257745.37	5479.06295	0.06182	16.34475	0.06204	17.56877	1.04E-04	1.45E-07	3.35E-05	1.46E-07	3.46E-05	1.7254E-04
519907.96	4258227.62	5476.53414	0.09583	0.75369	0.09676	0.72207	1.04E-04	2.25E-07	1.55E-06	2.27E-07	1.42E-06	1.0752E-04
519906.65	4259238.15	5467.9205	0.09761	0.74568	0.09859	0.71509	1.04E-04	2.29E-07	1.53E-06	2.31E-07	1.41E-06	1.0733E-04
519908.65	4258387.69	5460.97686	0.14068	0.75698	0.1443	0.72712	1.04E-04	3.30E-07	1.55E-06	3.39E-07	1.43E-06	1.0746E-04
520060.25	4257805.25	5459.3937	0.06352	11.16845	0.06534	6.73218	1.04E-04	1.49E-07	2.29E-05	1.53E-07	1.33E-05	1.4023E-04
519795.63	4258699.83	5459.23628	0.14995	0.29719	0.15596	0.2932	1.04E-04	3.52E-07	6.10E-07	3.66E-07	5.77E-07	1.0568E-04
520170.95	4257642.88	5453.89353	0.05827	2.89536	0.0575	2.31914	1.04E-04	1.37E-07	5.94E-06	1.35E-07	4.57E-06	1.1444E-04
520141.21	4257683.56	5452.50819	0.05962	11.84626	0.05918	6.82771	1.04E-04	1.40E-07	2.43E-05	1.39E-07	1.34E-05	1.4166E-04
519905.25	4258248.72	5448.6237	0.09939	0.73499	0.1004	0.70589	1.04E-04	2.33E-07	1.51E-06	2.36E-07	1.39E-06	1.0693E-04
519905.48	4258346.86	5444.62937	0.12478	0.73862	0.12671	0.71069	1.03E-04	2.93E-07	1.51E-06	2.97E-07	1.40E-06	1.0700E-04
520131.41	4257694.33	5431.5384	0.05987	10.61099	0.0595	10.11863	1.03E-04	1.41E-07	2.18E-05	1.40E-07	1.99E-05	1.4520E-04
520109.44	4257725.4	5430.28869	0.06087	11.5751	0.06083	13.75119	1.03E-04	1.43E-07	2.37E-05	1.43E-07	2.71E-05	1.5431E-04
519902.8	4258474.7	5428.78609	0.17317	0.6952	0.18115	0.67071	1.03E-04	4.07E-07	1.43E-06	4.25E-07	1.32E-06	1.0677E-04
519827.12	4258636.77	5427.08861	0.16113	0.36701	0.16955	0.36173	1.03E-04	3.78E-07	7.53E-07	3.98E-07	7.12E-07	1.0540E-04
519903.72	4258259.33	5407.32299	0.10106	0.72252	0.10212	0.69482	1.03E-04	2.37E-07	1.48E-06	2.40E-07	1.37E-06	1.0611E-04
519889.44	4258512.28	5406.55235	0.17644	0.60957	0.18513	0.59116	1.03E-04	4.14E-07	1.25E-06	4.35E-07	1.16E-06	1.0603E-04
519817.12	4258655.32	5401.68744	0.15719	0.34249	0.16506	0.33791	1.03E-04	3.69E-07	7.02E-07	3.88E-07	6.65E-07	1.0480E-04
520050.43	4257815.22	5394.57826	0.06332	6.99578	0.06563	4.88816	1.03E-04	1.49E-07	1.43E-05	1.54E-07	9.62E-06	1.2681E-04
519907.6	4258438.76	5393.22521	0.16112	0.73734	0.16772	0.70963	1.03E-04	3.78E-07	1.51E-06	3.94E-07	1.40E-06	1.0620E-04
519839.85	4258609.46	5391.60087	0.16478	0.40352	0.17369	0.39697	1.02E-04	3.87E-07	8.28E-07	4.08E-07	7.81E-07	1.0489E-04
519908.23	4258412.97	5389.24585	0.15039	0.74848	0.15552	0.71958	1.02E-04	3.53E-07	1.54E-06	3.65E-07	1.42E-06	1.0611E-04
519849.77	4258590.03	5388.73294	0.16776	0.43642	0.17709	0.42767	1.02E-04	3.94E-07	8.95E-07	4.16E-07	8.42E-07	1.0498E-04
519789.09	4258708.1	5382.79455	0.14668	0.28618	0.15204	0.28245	1.02E-04	3.44E-07	5.87E-07	3.57E-07	5.56E-07	1.0416E-04
520099.62	4257735.37	5381.43297	0.06088	16.44561	0.06107	17.75572	1.02E-04	1.43E-07	3.37E-05	1.43E-07	3.50E-05	1.7126E-04
519899.32	4258483.15	5380.60232	0.17351	0.6717	0.18158	0.64894	1.02E-04	4.07E-07	1.38E-06	4.26E-07	1.28E-06	1.0576E-04
519859.69	4258570.59	5380.39528	0.17038	0.47323	0.17942	0.46202	1.02E-04	4.00E-07	9.71E-07	4.21E-07	9.09E-07	1.0497E-04
519807.12	4258673.87	5380.0187	0.15322	0.32049	0.16032	0.31641	1.02E-04	3.60E-07	6.57E-07	3.76E-07	6.23E-07	1.0428E-04
519901.75	4258307.4	5379.89848	0.11194	0.71632	0.11327	0.6897	1.02E-04	2.63E-07	1.47E-06	2.66E-07	1.36E-06	1.0562E-04
519878.52	4258531.72	5376.33212	0.17473	0.55848	0.18332	0.54315	1.02E-04	4.10E-07	1.15E-06	4.30E-07	1.07E-06	1.0525E-04
519905.35	4258371.44	5376.26146	0.13286	0.73739	0.13564	0.70891	1.02E-04	3.12E-07	1.51E-06	3.18E-07	1.40E-06	1.0573E-04
519869.61	4258551.15	5372.27507	0.17265	0.51372	0.18131	0.50042	1.02E-04	4.05E-07	1.05E-06	4.26E-07	9.85E-07	1.0499E-04
520060.28	4257795.25	5364.17896	0.06253	11.09676	0.06429	6.64288	1.02E-04	1.47E-07	2.28E-05	1.51E-07	1.31E-05	1.3810E-04
519902.07	4258270	5357.1414	0.10269	0.7099	0.10377	0.68331	1.02E-04	2.41E-07	1.46E-06	2.44E-07	1.35E-06	1.0512E-04
520170.99	4257632.88	5354.13037	0.05741	2.76676	0.05666	2.19976	1.02E-04	1.35E-07	5.67E-06	1.33E-07	4.33E-06	1.1204E-04
519777.19	4258727.45	5333.2605	0.14186	0.26709	0.1462	0.2635	1.01E-04	3.33E-07	5.48E-07	3.43E-07	5.19E-07	1.0312E-04
520109.48	4257715.4	5328.55012	0.05992	12.08479	0.05987	13.99482	1.01E-04	1.41E-07	2.48E-05	1.41E-07	2.75E-05	1.5390E-04
520161.17	4257642.85	5327.99353	0.0576	3.98627	0.05694	2.83425	1.01E-04	1.35E-07	8.18E-06	1.34E-07	5.58E-06	1.1530E-04
520131.44	4257684.33	5327.58768	0.05893	14.70756	0.05858	10.42492	1.01E-04	1.38E-07	3.02E-05	1.38E-07	2.05E-05	1.5223E-04
519901.48	4258332.33	5325.45035	0.11852	0.71344	0.12008	0.68723	1.01E-04	2.78E-07	1.46E-06	2.82E-07	1.35E-06	1.0460E-04
519899.88	4258280.9	5316.40564	0.10469	0.70308	0.10582	0.67693	1.01E-04	2.46E-07	1.44E-06	2.48E-07	1.33E-06	1.0432E-04
519782.52	4258716.28	5302.61057	0.14336	0.2758	0.14819	0.27222	1.01E-04	3.37E-07	5.66E-07	3.48E-07	5.36E-07	1.0258E-04
520050.46	4257805.22	5300.87792	0.06233	6.94488	0.06457	4.81615	1.01E-04	1.46E-07	1.42E-05	1.52E-07	9.48E-06	1.2478E-04
520121.62	4257694.29	5295.39672	0.05906	12.38549	0.0588	13.06101	1.01E-04	1.39E-07	2.54E-05	1.38E-07	2.57E-05	1.5204E-04
519903.88	4258209.33	5287.07896	0.09106	0.72035	0.09176	0.69047	1.00E-04	2.14E-07	1.48E-06	2.15E-07	1.36E-06	1.0376E-04
519905.07	4258396.38	5286.99712	0.14164	0.73102	0.1457	0.70323	1.00E-04	3.33E-07	1.50E-06	3.42E-07	1.38E-06	1.0405E-04
520099.66	4257725.37	5285.43556	0.05995	16.61795	0.06012	17.73963	1.00E-04	1.41E-07	3.41E-05	1.41E-07	3.49E-05	1.6975E-04
519905.2	4258198.8	5282.65749	0.08945	0.72597	0.09013	0.69535	1.00E-04	2.10E-07	1.49E-06	2.12E-07	1.37E-06	1.0369E-04
519902.47	4258219.9	5281.51115	0.09268	0.71386	0.09342	0.68476	1.00E-04	2.18E-07	1.46E-06	2.19E-07	1.35E-06	1.0364E-04
519901.97	4258355.39	5281.40031	0.12562	0.71535	0.12772	0.68878	1.00E-04	2.95E-07	1.47E-06	3.00E-07	1.36E-06	1.0381E-04
519903.95	4258447.64	5279.8542	0.16198	0.71106	0.16875	0.68549	1.00E-04	3.80E-07	1.46E-06	3.96E-07	1.35E-06	1.0394E-04
519906.43	4258188.31	5272.35569	0.08787	0.73118	0.08856	0.6998	1.00E-04	2.06E-07	1.50E-06	2.08E-07	1.38E-06	1.0351E-04
520060.31	4257785.25	5271.55166	0.06156	11.01676	0.06327	6.54327	1.00E-04	1.45E-07	2.26E-05	1.49E-07	1.29E-05	1.3597E-04
519770.63	4258735.67	5258.43585	0.13871	0.25774	0.14259	0.25427	1.00E-04	3.26E-07	5.29E-07	3.35E-07	5.01E-07	1.0164E-04
519889.4	4258502.58	5257.38938	0.17198	0.6124	0.18014	0.59384	9.99E-05	4.04E-07	1.26E-06	4.23E-07	1.17E-06	1.0319E-04
519904.62	4258421.76	5247.38309	0.15149	0.723	0.15703	0.69608	9.97E-05	3.56E-07	1.48E-06	3.69E-07	1.37E-06	1.0332E-04
519898.13	4258316.2	5237.35146	0.11268	0.69375	0.11398	0.66857	9.96E-05	2.65E-07	1.42E-06	2.68E-07	1.32E-06	1.0282E-04
520109.51	4257705.4	5236.34251	0.05904	12.92793	0.05896	14.90548	9.95E-05	1.39E-07	2.66E-05	1.38E-07	2.93E-05	1.5576E-04
520161.2	4257632.85	5231.76963	0.05676	3.6372	0.05611	2.63495	9.94E-05	1.33E-07	7.46E-06	1.32E-07	5.19E-06	1.1236E-04
519817.12	4258646.05	5231.69251	0.15462	0.34456	0.16242	0.34	9.94E-05	3.63E-07	7.07E-07	3.81E-07	6.69E-07	1.0157E-04
519839.81	4258599.77	5219.38762	0.1615	0.40646	0.17025	0.39947	9.92E-05	3.79E-07	8.34E-07	4.00E-07	7.86E-07	1.0161E-04
519899.28	4258231.21	5219.25772	0.09392	0.69757	0.09472	0.6694	9.92E-05	2.20E-07	1.43E-06	2.22E-07	1.32E-06	1.0240E-04
519879.48	4258522.02	5218.84974	0.17053	0.56125	0.1787	0.54587	9.92E-05	4.00E-07	1.15E-06	4.20E-07	1.07E-06	1.0225E-04
519849.73	4258580.33	5216.80181	0.1642	0.43963	0.17298	0.43035	9.92E-05	3.85E-07	9.02E-07	4.06E-07	8.47E-07	1.0170E-04
519828.89	4258619.2	5214.18465	0.15845	0.37735	0.16672	0.37187	9.91E-05	3.72E-07	7.74E-07	3.91E-07	7.32E-07	1.0138E-04
520050.49	4257795.22	5210.6365	0.06137	6.8861	0.06355	4.73976	9.90E-05	1.44E-07	1.41E-05	1.49E-07	9.33E-06	1.2279E-04
519859.65	4258560.89	5209.82374	0.16655	0.47617	0.17487	0.46482	9.90E-05	3.91E-07	9.77E-07	4.11E-07	9.15E-07	1.0172E-04
519901.81	4258380.04	5206.66578	0.13377	0.71334	0.13692	0.68657	9.90E-05	3.14E-07	1.46E-06	3.21E-07	1.35E-06	1.0242E-04
519869.57	4258541.46	5206.19266	0.16864	0.51643	0.17679	0.50322	9.90E-05	3.96E-07	1.06E-06	4.15E-07	9.91E-07	1.0182E-04
519807.12	4258664.6	5205.83624	0.1508	0.32236	0.15799	0.31836	9.90E-05	3.54E-07	6.61E-07	3.71E-07	6.27E-07	1.0097E-04
519897.91	4258241.76	5202.42018	0.09559	0.68793	0.09642	0.66132	9.89E-05	2.24E-07	1.41E-06	2.26E-07	1.30E-06	1.0205E-04
520121.65	4257684.29	5196.98659	0.05816	16.92935	0.0579	13.67336	9.88E-05	1.37E-07	3.41E-05	1.36E-07	2.69E-05	1.6008E-04
520099.69	4257715.37	5192.78668	0.05906	16.93762	0.0592	17.94943	9.87E-05	1.39E-07	3.47E-05	1.39E-07	3.53E-05	1.6905E-04
520149.08	4257643.96	5186.7296	0.05686	6.74462	0.05631	3.82387	9.86E-05	1.33E-07	1.38E-05	1.32E-07	7.53E-06	1.2022E-04
519900.29	4258456.53	5186.21635	0.16266	0.68597	0.16953	0.66231	9.86E-05	3.82E-07	1.41E-06	3.98E-07	1.30E-06	1.0207E-04
519797.12	4258683.15	5185.51777	0.14698	0.30242	0.15338	0.29873	9.86E-05	3.45E-07	6.20E-07	3.60E-07	5.88E-07	1.0048E-04
519764.04	4258743.81	5183.19988	0.1356	0.24886	0.13908	0.2455	9.85E-05	3.18E-07	5.10E-07	3.27E-07	4.83E-07	1.0016E-04
520060.34	4257775.25	5181.43474	0.06062	10.92579	0.06228	6.43071	9.85E-05	1.42E-07	2.24E-05	1.46E-07	1.27E-05	1.3384E-04
519896.43	4258252.35	5172.4779	0.09725	0.67911	0.09812	0.65358	9.83E-05	2.28E-07	1.39E-06	2.30E-07	1.29E-06	1.0146E-04
519897.82	4258341.21	5163.5989	0.11928	0.69013	0.12093	0.66526	9.82E-05	2.80E-07	1.42E-06	2.84E-07	1.31E-06	1.0144E-04
520109.54	4257695.4	5143.64936	0.05816	14.65391	0.05807	15.99828	9.78E-05	1.37E-07	3.01E-05	1.36E-07	3.15E-05	1.5950E-04
519894.71	4258300.26	5141.5642	0.10732	0.67375	0.10841	0.64951	9.77E-05	2.52E-07	1.38E-06	2.55E-07	1.28E-06	1.0090E-04
519901.5	4258405.07	5132.13555	0.14265	0.70694	0.14716	0.68099	9.76E-05	3.35E-07	1.45E-06	3.45E-07	1.34E-06	1.0102E-04
519898.46	4258363.92	5131.93006	0.12661	0.69488	0.12901	0.66924	9.75E-05	2.97E-07	1.43E-06	3.03E-07	1.32E-06	1.0089E-04
519889.36	4258492.89	5126.46323	0.16774	0.61509	0.17537	0.59637	9.74E-05	3.94E-07	1.26E-06	4.12E-07	1.17E-06	1.0069E-04
519894.84	4258263	5124.80306	0.0988	0.66776	0.09969	0.64342	9.74E-05	2.32E-07	1.37E-06	2.34E-07	1.27E-06	1.0052E-04
520050.52	4257785.22	5123.30913	0.06044	6.81865	0.06256	6.45281	9.74E-05	1.42E-07	1.40E-05	1.47E-07	9.16E-06	1.2082E-04
519896.63	4258465.41	5116.01031	0.16327	0.66249	0.17027	0.64043	9.72E-05	3.83E-07	1.36E-06	4.00E-07	1.26E-06	1.0065E-04
519901	4258430.54	5112.65063	0.15235	0.69778	0.15815	0.67303	9.72E-05	3.58E-07	1.43E-06	3.71E-07	1.32E-06	1.0067E-04
520099.72	4257705.37	5101.71724	0.05818	17.5361	0.0583	18.04929	9.70E-05	1.37E-07	3.60E-05	1.37E-07	3.55E-05	1.6874E-04
520149.12	4257633.96	5095.83945	0.05604	5.26393	0.05549	3.38387	9.69E-05	1.32E-07	1.08E-05	1.30E-07	6.66E-06	1.1458E-04
520060.38	4257765.25	5093.01715	0.05971	10.83271	0.06131	6.30497	9.68E-05	1.40E-07	2.22E-05	1.44E-07	1.24E-05	1.3172E-04
519894.51	4258325.01	5090.75504	0.11341	0.67209	0.11472	0.64824	9.68E-05	2.66E-07	1.38E-06	2.69E-07	1.28E-06	1.0095E-04
519893.11	4258273.7	5082.02602	0.10055	0.65994	0.10145	0.63634	9.66E-05	2.36E-07	1.35E-06	2.38E-07	1.25E-06	1.0068E-04
519785.45	4258699.45	5075.2046	0.14149	0.28247	0.14693	0.27908	9.65E-05	3.32E-07	5.79E-07	3.45E-07	5.49E-07	9.8276E-05
519817.12	4258636.77	5073.6588	0.15208	0.34659	0.15976	0.34203	9.64E-05	3.57E-07	7.11E-07	3.75E-07	6.73E-07	9.8557E-05
519879.44	4258512.32	5073.0554	0.16648	0.56398	0.17427	0.54845	9.64E-05	3.91E-07	1.16E-06	4.09E-07	1.08E-06	9.9466E-05
520139.3	4257643.93	5066.13413	0.05617	9.17068	0.05569	4.83437	9.63E-05	1.32E-07	1.88E-05	1.31E-07	9.52E-06	1.2489E-04
519892.98	4258474.3	5061.46595	0.16365	0.63985	0.17074	0.61936	9.62E-05	3.84E-07	1.31E-06	4.01E-07	1.22E-06	9.9526E-05
519839.77	4258590.07	5058.01824	0.15824	0.40943	0.16669	0.4019	9.61E-05	3.71E-07	8.40E-07	3.91E-07	7.91E-07	9.8537E-05
519849.69	4258570.63	5055.58624	0.16067	0.44254	0.1688	0.43291	9.61E-05	3.77E-07	9.08E-07	3.96E-07	8.52E-07	9.8631E-05
519829.85	4258609.51	5053.87735	0.15548	0.37972	0.1636	0.37409	9.61E-05	3.65E-07	7.79E-07	3.84E-07	7.36E-07	9.8329E-05
520109.57	4257685.4	5051.24948	0.05729	18.11687	0.05719	16.14073	9.60E-05	1.34E-07	3.72E-05	1.34E-07	3.18E-05	1.6521E-04
519869.53	4258531.76	5050.98463	0.16477	0.51894	0.1725	0.5058	9.60E-05	3.87E-07	1.06E-06	4.05E-07	9.96E-07	9.8862E-05
519859.61	4258551.2	5050.06105	0.16282	0.47876	0.17055	0.46742	9.60E-05	3.82E-07	9.82E-07	4.00E-07	9.20E-07	9.8677E-05
519896.37	4258202.44	5046.52187	0.08775	0.67106	0.08826	0.64371	9.59E-05	2.06E-07	1.38E-06	2.07E-07	1.27E-06	9.8982E-05
519898.27	4258388.65	5045.23844	0.13467	0.69031	0.13824	0.66525	9.59E-05	3.16E-07	1.42E-06	3.25E-07	1.31E-06	9.9267E-05
519807.12	4258655.32	5045.12689	0.14845	0.32421	0.15563	0.32026	9.59E-05	3.49E-07	6.65E-07	3.65E-07	6.30E-07	9.7908E-05
519895	4258213	5044.96186	0.08929	0.66667	0.08985	0.63993	9.59E-05	2.10E-07	1.37E-06	2.11E-07	1.26E-06	9.8943E-05
519897.66	4258191.92	5041.85514	0.08623	0.67543	0.08671	0.64737	9.58E-05	2.02E-07	1.39E-06	2.04E-07	1.27E-06	9.8902E-05
520050.56	4257775.22	5038.20556	0.05953	6.7432	0.06159	4.55385	9.58E-05	1.40E-07	1.38E-05	1.45E-07	8.96E-06	1.1885E-04
519893.52	4258223.6	5032.12637	0.0908	0.66181	0.09144	0.63541	9.57E-05	2.13E-07	1.36E-06	2.15E-07	1.25E-06	9.8688E-05
519773.47	4258718.6	5023.96459	0.13689	0.26374	0.14118	0.26059	9.55E-05	3.21E-07	5.41E-07	3.31E-07	5.13E-07	9.7203E-05
519797.12	4258673.87	5020.42155	0.14477	0.30406	0.15126	0.30053	9.54E-05	3.40E-07	6.24E-07	3.55E-07	5.92E-07	9.7339E-05
519889.32	4258483.19	5015.82869	0.16376	0.6179	0.17093	0.599	9.53E-05	3.84E-07	1.27E-06	4.01E-07	1.18E-06	9.8574E-05
520099.75	4257695.37	5013.91724	0.05733	18.73064	0.05742	18.30026	9.53E-05	1.35E-07	3.84E-05	1.35E-07	3.60E-05	1.7001E-04
520060.41	4257755.25	5006.5467	0.05881	10.7165	0.06037	6.15462	9.52E-05	1.38E-07	2.20E-05	1.42E-07	1.21E-05	1.2954E-04
519778.9	4258707.69	5005.64155	0.13847	0.2723	0.14328	0.26914	9.51E-05	3.25E-07	5.58E-07	3.36E-07	5.30E-07	9.6898E-05
519891.12	4258308.98	5004.655	0.10795	0.65265	0.10901	0.62985	9.51E-05	2.53E-07	1.34E-06	2.56E-07	1.24E-06	9.8217E-05
519897.39	4258439.32	4999.58673	0.15313	0.67401	0.1591	0.65114	9.50E-05	3.60E-07	1.38E-06	3.74E-07	1.28E-06	9.8430E-05
519894.17	4258350.1	4998.92315	0.11998	0.66736	0.12181	0.64382	9.50E-05	2.82E-07	1.37E-06	2.86E-07	1.27E-06	9.8224E-05
519897.92	4258413.76	4989.16585	0.14357	0.68352	0.14845	0.65945	9.48E-05	3.37E-07	1.40E-06	3.49E-07	1.30E-06	9.8231E-05
520139.33	4257633.93	4978.67429	0.05537	6.42921	0.05489	4.0221	9.46E-05	1.30E-07	1.32E-05	1.29E-07	7.92E-06	1.1600E-04
519890.59	4258234.79	4973.43861	0.09203	0.646	0.09271	0.6212	9.45E-05	2.16E-07	1.32E-06	2.18E-07	1.22E-06	9.7518E-05
519894.95	4258372.45	4963.07302	0.1273	0.67179	0.13002	0.64796	9.43E-05	2.99E-07	1.38E-06	3.05E-07	1.28E-06	9.7596E-05
519766.94	4258726.88	4956.53647	0.13393	0.25464	0.13775	0.25159	9.42E-05	3.14E-07	5.22E-07	3.23E-07	4.95E-07	9.5870E-05
520129.53	4257644.69	4954.94196	0.05554	10.86743	0.05513	5.82343	9.42E-05	1.30E-07	2.23E-05	1.29E-07	1.15E-05	1.2820E-04
520050.59	4257765.22	4954.64642	0.05865	6.65111	0.06065	4.43773	9.42E-05	1.38E-07	1.36E-05	1.42E-07	8.74E-06	1.1684E-04
519889.16	4258245.37	4949.56427	0.0936	0.638	0.09431	0.61434	9.41E-05	2.20E-07	1.31E-06	2.21E-07	1.21E-06	9.7041E-05
519890.89	4258333.81	4939.75483	0.1141	0.651	0.1155	0.6284	9.39E-05	2.68E-07	1.34E-06	2.71E-07	1.24E-06	9.7007E-05
519879.4	4258502.62	4934.56208	0.16252	0.56645	0.16989	0.55077	9.38E-05	3.82E-07	1.16E-06	3.99E-07	1.08E-06	9.6823E-05
520099.78	4257685.37	4927.36788	0.05649	21.40745	0.05656	17.37709	9.37E-05	1.33E-07	4.39E-05	1.33E-07	3.42E-05	1.7204E-04
520060.44	4257745.25	4922.76009	0.05794	10.57235	0.05945	5.97246	9.36E-05	1.36E-07	2.17E-05	1.40E-07	1.18E-05	1.2729E-04
519887.66	4258293.12	4918.49098	0.103	0.63567	0.10391	0.61312	9.35E-05	2.42E-07	1.30E-06	2.44E-07	1.21E-06	9.6488E-05
519887.62	4258255.99	4909.9268	0.09513	0.62925	0.09586	0.60669	9.33E-05	2.23E-07	1.29E-06	2.25E-07	1.19E-06	9.6262E-05
519839.73	4258580.37	4906.36282	0.15502	0.41215	0.16294	0.40417	9.33E-05	3.64E-07	8.45E-07	3.83E-07	7.96E-07	9.5648E-05
519869.48	4258522.06	4905.52177	0.16099	0.52104	0.16832	0.50801	9.32E-05	3.78E-07	1.07E-06	3.95E-07	1.00E-06	9.6087E-05
519849.65	4258560.94	4903.46845	0.15722	0.44501	0.16469	0.43528	9.32E-05	3.69E-07	9.13E-07	3.87E-07	8.57E-07	9.5731E-05
519829.81	4258599.81	4902.88962	0.15252	0.38229	0.16048	0.37626	9.32E-05	3.58E-07	7.84E-07	3.77E-07	7.41E-07	9.5455E-05
519893.78	4258448.1	4900.70855	0.15371	0.65113	0.15978	0.63002	9.32E-05	3.61E-07	1.34E-06	3.75E-07	1.24E-06	9.6465E-05
519859.57	4258541.5	4899.50746	0.1592	0.4811	0.16648	0.46984	9.31E-05	3.74E-07	9.87E-07	3.91E-07	9.25E-07	9.5807E-05
519807.12	4258646.05	4896.2286	0.14614	0.32603	0.15323	0.32209	9.31E-05	3.43E-07	6.69E-07	3.60E-07	6.34E-07	9.5074E-05
519819.89	4258619.25	4891.11679	0.14969	0.35589	0.15724	0.35117	9.30E-05	3.51E-07	7.30E-07	3.69E-07	6.91E-07	9.5113E-05
519894.73	4258397.25	4889.82136	0.13548	0.66768	0.13944	0.64452	9.29E-05	3.18E-07	1.37E-06	3.27E-07	1.27E-06	9.6230E-05
519760.37	4258735.08	4888.82848	0.131	0.246	0.1344	0.24302	9.29E-05	3.08E-07	5.05E-07	3.16E-07	4.78E-07	9.4534E-05
520050.62	4257755.22	4872.35194	0.05778	6.53993	0.05973	4.30174	9.26E-05	1.36E-07	1.34E-05	1.40E-07

519879.32	4258483.23	4700.47527	0.15505	0.57095	0.16153	0.555	8.93E-05	3.64E-07	1.17E-06	3.79E-07	1.09E-06	9.2354E-05
520060.53	4257715.25	4681.49453	0.05544	9.83815	0.05683	5.07588	8.90E-05	1.30E-07	2.02E-05	1.33E-07	9.99E-06	1.1942E-04
519763.24	4257818.09	4680.8441	0.12947	0.25142	0.13326	0.24877	8.90E-05	3.04E-07	5.16E-07	3.13E-07	4.90E-07	9.0597E-05
519887.93	4258389.51	4674.44912	0.12901	0.63214	0.13253	0.61108	8.89E-05	3.03E-07	1.30E-06	3.11E-07	1.20E-06	9.1966E-05
519880.54	4258310.43	4663.87262	0.10417	0.59771	0.10506	0.57773	8.87E-05	2.45E-07	1.23E-06	2.47E-07	1.14E-06	9.1506E-05
519878.81	4258259.63	4661.41098	0.09306	0.585	0.09364	0.56476	8.86E-05	2.18E-07	1.20E-06	2.20E-07	1.11E-06	9.1355E-05
519887.2	4258439.83	4647.24839	0.14564	0.61857	0.15103	0.59958	8.83E-05	3.42E-07	1.27E-06	3.55E-07	1.18E-06	9.1481E-05
519869.4	4258502.67	4645.89149	0.15392	0.52577	0.16065	0.51239	8.83E-05	3.61E-07	1.08E-06	3.77E-07	1.01E-06	9.1135E-05
520050.71	4257725.22	4637.13174	0.0553	6.00652	0.05711	3.69932	8.81E-05	1.30E-07	1.23E-05	1.34E-07	7.28E-06	1.0801E-04
519883.65	4258351.41	4634.06165	0.11536	0.61074	0.11722	0.59048	8.81E-05	2.71E-07	1.25E-06	2.75E-07	1.16E-06	9.1046E-05
519887.65	4258414.47	4630.07672	0.13712	0.62657	0.14169	0.60654	8.80E-05	3.22E-07	1.29E-06	3.33E-07	1.19E-06	9.1143E-05
520107.69	4257635.77	4628.28664	0.05327	8.4976	0.05309	4.77496	8.80E-05	1.25E-07	1.74E-05	1.25E-07	9.40E-06	1.1505E-04
519839.65	4258560.98	4626.83009	0.1487	0.41698	0.15548	0.40853	8.79E-05	3.49E-07	8.55E-07	3.65E-07	8.04E-07	9.0321E-05
519829.73	4258580.41	4626.54466	0.14664	0.38739	0.15388	0.3804	8.79E-05	3.44E-07	7.95E-07	3.61E-07	7.49E-07	9.0191E-05
519859.48	4258522.1	4623.23369	0.15231	0.48519	0.15894	0.47403	8.79E-05	3.58E-07	9.95E-07	3.73E-07	9.33E-07	9.0538E-05
519849.57	4258541.54	4622.45572	0.15057	0.44926	0.15711	0.43962	8.79E-05	3.53E-07	9.21E-07	3.69E-07	8.65E-07	9.0374E-05
519880.14	4258199.16	4622.21412	0.08309	0.58416	0.0834	0.56104	8.79E-05	1.95E-07	1.20E-06	1.96E-07	1.10E-06	9.0553E-05
519784.63	4258673.69	4620.12954	0.13519	0.28526	0.14098	0.28229	8.78E-05	3.17E-07	5.85E-07	3.31E-07	5.56E-07	8.9609E-05
519756.7	4258726.35	4618.30897	0.12668	0.24302	0.13009	0.2404	8.78E-05	2.97E-07	4.98E-07	3.05E-07	4.73E-07	8.9360E-05
519819.81	4258599.85	4618.19252	0.14431	0.3602	0.15158	0.35498	8.78E-05	3.38E-07	7.39E-07	3.56E-07	6.99E-07	8.9916E-05
519878.73	4258209.72	4610.99204	0.08443	0.58003	0.0848	0.55762	8.76E-05	1.98E-07	1.19E-06	1.99E-07	1.10E-06	9.0331E-05
520060.56	4257705.25	4606.37598	0.05466	9.36872	0.05601	4.59109	8.76E-05	1.28E-07	1.92E-05	1.31E-07	9.04E-06	1.1607E-04
519809.89	4258619.29	4600.10303	0.14167	0.33622	0.14859	0.33212	8.74E-05	3.33E-07	6.90E-07	3.49E-07	6.54E-07	8.9464E-05
519797.12	4258646.05	4594.75738	0.13836	0.30895	0.14482	0.30551	8.73E-05	3.25E-07	6.34E-07	3.40E-07	6.01E-07	8.9238E-05
519877.23	4258220.33	4590.66411	0.08574	0.57676	0.08621	0.55457	8.73E-05	2.01E-07	1.18E-06	2.02E-07	1.09E-06	8.9938E-05
520097.87	4257645.74	4589.17209	0.05325	13.38336	0.05328	5.66338	8.72E-05	1.25E-07	2.74E-05	1.25E-07	1.11E-05	1.2608E-04
519880.35	4258335.16	4589.13129	0.1099	0.59645	0.11126	0.57675	8.72E-05	2.58E-07	1.22E-06	2.61E-07	1.14E-06	9.0109E-05
519876.77	4258295.33	4587.11759	0.09958	0.5811	0.1003	0.56139	8.72E-05	2.34E-07	1.19E-06	2.35E-07	1.11E-06	8.9959E-05
519883.62	4258448.52	4571.37316	0.14615	0.59916	0.15164	0.58139	8.69E-05	3.43E-07	1.23E-06	3.56E-07	1.14E-06	8.9966E-05
519875.62	4258230.98	4566.52265	0.08711	0.56853	0.08757	0.54773	8.68E-05	2.05E-07	1.17E-06	2.06E-07	1.08E-06	8.9456E-05
520050.74	4257715.22	4563.54471	0.05452	5.70961	0.05628	3.40611	8.67E-05	1.28E-07	1.17E-05	1.32E-07	6.70E-06	1.0542E-04
519883.2	4258376.76	4556.71447	0.12262	0.60989	0.12555	0.58984	8.66E-05	2.88E-07	1.25E-06	2.95E-07	1.16E-06	8.9609E-05
519778.17	4258682.15	4554.94664	0.13235	0.27498	0.13769	0.27221	8.66E-05	3.11E-07	5.64E-07	3.23E-07	5.36E-07	8.8315E-05
520107.72	4257625.77	4552.71353	0.05254	5.96601	0.05234	3.61165	8.65E-05	1.23E-07	1.22E-05	1.23E-07	7.11E-06	1.0613E-04
519884.42	4258398.05	4538.06693	0.12973	0.6126	0.13356	0.59314	8.63E-05	3.05E-07	1.26E-06	3.14E-07	1.17E-06	8.9303E-05
519876.98	4258319.08	4532.69976	0.10474	0.58049	0.10573	0.56144	8.62E-05	2.46E-07	1.19E-06	2.48E-07	1.11E-06	8.8948E-05
520060.59	4257695.25	4532.40613	0.05389	8.67277	0.0552	3.99918	8.62E-05	1.27E-07	1.78E-05	1.30E-07	7.87E-06	1.1207E-04
519869.36	4258492.97	4529.30533	0.15048	0.52773	0.15683	0.5142	8.61E-05	3.53E-07	1.08E-06	3.68E-07	1.01E-06	8.8910E-05
519884.11	4258423.07	4515.20061	0.13773	0.60676	0.14246	0.58827	8.58E-05	3.23E-07	1.24E-06	3.34E-07	1.16E-06	8.8886E-05
519873.22	4258241.96	4514.93519	0.08831	0.55911	0.08877	0.5392	8.58E-05	2.07E-07	1.15E-06	2.08E-07	1.06E-06	8.8445E-05
520097.9	4257635.74	4514.80896	0.05251	8.15428	0.05253	4.11655	8.58E-05	1.23E-07	1.67E-05	1.23E-07	8.10E-06	1.1089E-04
519873.42	4258279.22	4512.69717	0.09517	0.5637	0.09573	0.54466	8.58E-05	2.23E-07	1.16E-06	2.25E-07	1.07E-06	8.8455E-05
519880.05	4258457.2	4512.1099	0.14655	0.58064	0.15213	0.56399	8.58E-05	3.44E-07	1.19E-06	3.57E-07	1.11E-06	8.8769E-05
519880.02	4258360.21	4501.27199	0.11631	0.59477	0.11853	0.57546	8.56E-05	2.73E-07	1.22E-06	2.78E-07	1.13E-06	8.8465E-05
519829.69	4258570.72	4498.74189	0.14374	0.38968	0.15047	0.38237	8.55E-05	3.37E-07	7.99E-07	3.53E-07	7.53E-07	8.7756E-05
519859.44	4258512.41	4497.46069	0.14904	0.48715	0.15543	0.47592	8.55E-05	3.50E-07	9.99E-07	3.65E-07	9.37E-07	8.8139E-05
519839.61	4258551.28	4496.30002	0.14564	0.41886	0.15193	0.41045	8.55E-05	3.42E-07	8.59E-07	3.57E-07	8.08E-07	8.7832E-05
519819.77	4258590.15	4492.7195	0.14163	0.36249	0.14864	0.35681	8.54E-05	3.33E-07	7.43E-07	3.49E-07	7.02E-07	8.7526E-05
519849.53	4258531.84	4492.01431	0.1474	0.45115	0.15366	0.44155	8.54E-05	3.46E-07	9.25E-07	3.61E-07	8.69E-07	8.7886E-05
520050.77	4257705.22	4490.79654	0.05376	5.31856	0.05547	3.06676	8.54E-05	1.26E-07	1.09E-05	1.30E-07	6.04E-06	1.0256E-04
519771.67	4258690.5	4487.7496	0.12948	0.26527	0.13442	0.26262	8.53E-05	3.04E-07	5.44E-07	3.16E-07	5.17E-07	8.6985E-05
519809.85	4258609.59	4477.82481	0.13923	0.33805	0.14603	0.33381	8.51E-05	3.27E-07	6.93E-07	3.43E-07	6.57E-07	8.7135E-05
519766.03	4258700.91	4476.51688	0.12758	0.25692	0.13216	0.25423	8.51E-05	3.00E-07	5.27E-07	3.10E-07	5.00E-07	8.6728E-05
519871.67	4258252.59	4475.38355	0.08969	0.5525	0.09014	0.53337	8.51E-05	2.11E-07	1.13E-06	2.12E-07	1.05E-06	8.7674E-05
519797.12	4258636.77	4473.7978	0.13627	0.3105	0.14263	0.30707	8.50E-05	3.20E-07	6.37E-07	3.35E-07	6.04E-07	8.6935E-05
519876.47	4258465.89	4464.86384	0.14677	0.56265	0.15244	0.54713	8.49E-05	3.45E-07	1.15E-06	3.58E-07	1.08E-06	8.7802E-05
519873.09	4258304.29	4459.83184	0.10011	0.56327	0.10087	0.54473	8.48E-05	2.35E-07	1.16E-06	2.37E-07	1.07E-06	8.7473E-05
520060.63	4257685.25	4459.24021	0.05314	7.6374	0.05441	3.37605	8.48E-05	1.25E-07	1.57E-05	1.28E-07	6.65E-06	1.0732E-04
519787.36	4258656.36	4457.9352	0.13352	0.29196	0.13949	0.28891	8.47E-05	3.13E-07	5.99E-07	3.27E-07	5.69E-07	8.6546E-05
519876.76	4258343.88	4448.17379	0.11051	0.5789	0.11214	0.56021	8.46E-05	2.59E-07	1.19E-06	2.63E-07	1.10E-06	8.7364E-05
520097.93	4257625.74	4442.50073	0.0518	5.53467	0.0518	3.12906	8.44E-05	1.22E-07	1.14E-05	1.22E-07	6.16E-06	1.0220E-04
519872.9	4258474.58	4435.41964	0.14696	0.54565	0.15276	0.53112	8.43E-05	3.45E-07	1.12E-06	3.59E-07	1.05E-06	8.7178E-05
519759.55	4258709.31	4426.40771	0.12517	0.24824	0.12912	0.2458	8.41E-05	2.94E-07	5.09E-07	3.03E-07	4.84E-07	8.5728E-05
519871.37	4258202.78	4422.60091	0.08152	0.5447	0.0818	0.52368	8.41E-05	1.91E-07	1.12E-06	1.92E-07	1.03E-06	8.6597E-05
519869.32	4258483.27	4420.58663	0.14711	0.52945	0.15306	0.51583	8.40E-05	3.45E-07	1.09E-06	3.59E-07	1.02E-06	8.6833E-05
520050.81	4257695.22	4420.51563	0.05301	4.81166	0.05468	2.70871	8.40E-05	1.24E-07	9.87E-06	1.28E-07	5.33E-06	9.9479E-05
519880.57	4258431.68	4420.07131	0.1383	0.58817	0.14314	0.57095	8.40E-05	3.25E-07	1.21E-06	3.36E-07	1.12E-06	8.7008E-05
519880.91	4258406.58	4420.04466	0.13047	0.59461	0.13457	0.57642	8.40E-05	3.06E-07	1.22E-06	3.16E-07	1.13E-06	8.6993E-05
519879.54	4258385.65	4416.96941	0.12338	0.59131	0.12668	0.57265	8.40E-05	2.90E-07	1.21E-06	2.97E-07	1.13E-06	8.6886E-05
519869.91	4258213.37	4405.85927	0.08277	0.54202	0.08312	0.52132	8.37E-05	1.94E-07	1.11E-06	1.95E-07	1.03E-06	8.6275E-05
519873.42	4258327.74	4402.23871	0.10533	0.56431	0.10651	0.54611	8.37E-05	2.47E-07	1.16E-06	2.50E-07	1.08E-06	8.6408E-05
519869.76	4258288.1	4402.16979	0.09573	0.54947	0.09632	0.53099	8.37E-05	2.25E-07	1.13E-06	2.26E-07	1.05E-06	8.6300E-05
519780.97	4258664.98	4395.85791	0.13084	0.28134	0.13647	0.27853	8.36E-05	3.07E-07	5.77E-07	3.20E-07	5.48E-07	8.5310E-05
519868.35	4258224	4381.77522	0.08404	0.53669	0.08441	0.51678	8.33E-05	1.97E-07	1.10E-06	1.98E-07	1.02E-06	8.5803E-05
519859.4	4258502.71	4379.62971	0.14586	0.48898	0.15197	0.47762	8.32E-05	3.42E-07	1.00E-06	3.57E-07	9.40E-07	8.5891E-05
519829.65	4258561.02	4375.67471	0.1409	0.39145	0.14706	0.3841	8.32E-05	3.31E-07	8.03E-07	3.45E-07	7.56E-07	8.5409E-05
519819.73	4258580.46	4373.37667	0.13896	0.36472	0.14559	0.35859	8.31E-05	3.26E-07	7.48E-07	3.42E-07	7.06E-07	8.5252E-05
519753.03	4258717.62	4372.10832	0.12265	0.23995	0.12608	0.23767	8.31E-05	2.88E-07	4.92E-07	2.96E-07	4.68E-07	8.4650E-05
519839.57	4258541.58	4371.23129	0.14266	0.42059	0.1486	0.41223	8.31E-05	3.35E-07	8.63E-07	3.49E-07	8.11E-07	8.5447E-05
519849.48	4258522.15	4367.81373	0.14433	0.4529	0.15036	0.4433	8.30E-05	3.39E-07	9.29E-07	3.53E-07	8.73E-07	8.5518E-05
519876.4	4258369.02	4366.61948	0.11709	0.57792	0.11969	0.55963	8.30E-05	2.75E-07	1.19E-06	2.81E-07	1.10E-06	8.5844E-05
519809.81	4258599.89	4360.87578	0.13678	0.34007	0.14346	0.33547	8.29E-05	3.21E-07	6.97E-07	3.37E-07	6.60E-07	8.4908E-05
520050.84	4257685.22	4349.84048	0.05227	4.20248	0.05391	2.36895	8.27E-05	1.23E-07	8.62E-06	1.27E-07	4.66E-06	9.6214E-05
519866.67	4258234.68	4349.36172	0.08531	0.52975	0.08567	0.51086	8.27E-05	2.00E-07	1.09E-06	2.01E-07	1.01E-06	8.5167E-05
519877.03	4258440.28	4339.01346	0.13874	0.57027	0.14365	0.55422	8.25E-05	3.26E-07	1.17E-06	3.37E-07	1.09E-06	8.5400E-05
519799.89	4258619.33	4337.55388	0.13431	0.31813	0.14066	0.31453	8.24E-05	3.15E-07	6.52E-07	3.30E-07	6.19E-07	8.4366E-05
519774.53	4258673.49	4333.35922	0.12817	0.27128	0.13341	0.26869	8.24E-05	3.01E-07	5.56E-07	3.13E-07	5.29E-07	8.4069E-05
519869.4	4258313.25	4330.59221	0.10065	0.54689	0.10153	0.52929	8.23E-05	2.36E-07	1.12E-06	2.38E-07	1.04E-06	8.4955E-05
519866.37	4258272.08	4327.69683	0.09158	0.53172	0.092	0.51401	8.23E-05	2.15E-07	1.09E-06	2.16E-07	1.01E-06	8.4795E-05
519873.17	4258352.61	4310.33549	0.11113	0.56216	0.11328	0.54454	8.19E-05	2.61E-07	1.15E-06	2.65E-07	1.07E-06	8.4683E-05
519877.4	4258415.11	4309.45263	0.13108	0.57689	0.13535	0.55999	8.19E-05	3.08E-07	1.18E-06	3.18E-07	1.10E-06	8.4826E-05
519864.54	4258245.55	4299.24466	0.08649	0.52182	0.08683	0.5037	8.17E-05	2.03E-07	1.07E-06	2.04E-07	9.92E-07	8.4190E-05
519866.11	4258296.99	4287.76717	0.09628	0.53466	0.09693	0.51695	8.15E-05	2.26E-07	1.10E-06	2.28E-07	1.02E-06	8.4070E-05
519875.89	4258394.53	4285.18656	0.12404	0.57291	0.12761	0.55571	8.15E-05	2.91E-07	1.17E-06	3.00E-07	1.09E-06	8.4313E-05
519873.49	4258448.89	4273.04409	0.13905	0.55309	0.14403	0.53811	8.12E-05	3.26E-07	1.13E-06	3.38E-07	1.06E-06	8.4081E-05
519869.86	4258336.39	4272.47501	0.10594	0.54882	0.10737	0.5315	8.12E-05	2.49E-07	1.13E-06	2.52E-07	1.05E-06	8.3885E-05
519768.05	4258681.91	4270.88926	0.12551	0.26176	0.13036	0.25934	8.12E-05	2.95E-07	5.37E-07	3.06E-07	5.11E-07	8.2830E-05
519859.36	4258493.01	4265.19398	0.1427	0.49053	0.14849	0.47906	8.11E-05	3.35E-07	1.01E-06	3.49E-07	9.43E-07	8.3706E-05
519819.69	4258570.76	4258.494	0.13632	0.36675	0.14248	0.36031	8.09E-05	3.20E-07	7.52E-07	3.34E-07	7.09E-07	8.3062E-05
519829.61	4258551.32	4257.12037	0.13811	0.39315	0.14385	0.38579	8.09E-05	3.24E-07	8.06E-07	3.38E-07	7.59E-07	8.3148E-05
519783.67	4258647.59	4253.65179	0.1292	0.28776	0.1349	0.28486	8.09E-05	3.03E-07	5.90E-07	3.17E-07	5.61E-07	8.2625E-05
519762.31	4258692.06	4252.44885	0.12366	0.25348	0.12814	0.25112	8.08E-05	2.90E-07	5.20E-07	3.01E-07	4.94E-07	8.2437E-05
519839.53	4258531.88	4250.95863	0.13978	0.42221	0.14547	0.41389	8.08E-05	3.28E-07	8.66E-07	3.42E-07	8.15E-07	8.3153E-05
519849.44	4258512.45	4249.97586	0.14137	0.45458	0.1472	0.44492	8.08E-05	3.32E-07	9.32E-07	3.46E-07	8.76E-07	8.3270E-05
519808.77	4258590.2	4249.80862	0.13433	0.34211	0.14079	0.33707	8.08E-05	3.15E-07	7.02E-07	3.31E-07	6.64E-07	8.2792E-05
519872.78	4258377.82	4232.6129	0.11776	0.5608	0.12069	0.5438	8.05E-05	2.76E-07	1.15E-06	2.83E-07	1.07E-06	8.3235E-05
519862.61	4258206.39	4231.48306	0.07995	0.51019	0.08022	0.49069	8.04E-05	1.88E-07	1.05E-06	1.88E-07	9.66E-07	8.2821E-05
519799.85	4258609.63	4229.7244	0.13208	0.3198	0.13834	0.31603	8.04E-05	3.10E-07	6.56E-07	3.25E-07	6.22E-07	8.2312E-05
519862.75	4258280.89	4229.12653	0.09212	0.51891	0.09258	0.50173	8.04E-05	2.16E-07	1.06E-06	2.17E-07	9.88E-07	8.2874E-05
519869.94	4258457.5	4226.96904	0.13935	0.53696	0.14443	0.52284	8.03E-05	3.27E-07	1.10E-06	3.39E-07	1.03E-06	8.3144E-05
519873.89	4258423.64	4213.08971	0.13157	0.55964	0.13594	0.54395	8.01E-05	3.09E-07	1.15E-06	3.19E-07	1.07E-06	8.2930E-05
519861.09	4258277.01	4209.08557	0.08114	0.50604	0.08143	0.48719	8.00E-05	1.90E-07	1.04E-06	1.91E-07	9.59E-07	8.2386E-05
519865.71	4258322.22	4204.03236	0.10124	0.53186	0.10233	0.51505	7.99E-05	2.38E-07	1.09E-06	2.40E-07	1.01E-06	8.2494E-05
519789.93	4258629.07	4201.72767	0.1296	0.30002	0.13547	0.29691	7.99E-05	3.04E-07	6.15E-07	3.18E-07	5.84E-07	8.1689E-05
519777.3	4258656.27	4194.4603	0.12671	0.27741	0.13211	0.27473	7.97E-05	2.97E-07	5.69E-07	3.10E-07	5.41E-07	8.1446E-05
519866.4	4258466.1	4192.84573	0.13952	0.52133	0.14471	0.50811	7.97E-05	3.28E-07	1.07E-06	3.40E-07	1.00E-06	8.2435E-05
519755.85	4258700.52	4192.53086	0.12102	0.245	0.12517	0.24264	7.97E-05	2.84E-07	5.02E-07	2.94E-07	4.78E-07	8.1251E-05
519860.58	4258361.33	4185.12565	0.11191	0.54745	0.11421	0.53081	7.96E-05	2.63E-07	1.12E-06	2.68E-07	1.04E-06	8.2250E-05
519859.47	4258227.66	4179.35828	0.08234	0.50015	0.08262	0.4822	7.94E-05	1.93E-07	1.03E-06	1.94E-07	9.49E-07	8.1804E-05
519862.86	4258474.71	4172.75118	0.13964	0.50641	0.14497	0.49401	7.93E-05	3.28E-07	1.04E-06	3.40E-07	9.72E-07	8.1996E-05
519862.45	4258305.88	4170.11171	0.09681	0.51964	0.09758	0.50283	7.93E-05	2.27E-07	1.07E-06	2.29E-07	9.90E-07	8.1778E-05
520058.71	4257645.62	4167.69053	0.05016	2.92811	0.05137	1.74632	7.92E-05	1.18E-07	6.01E-06	1.21E-07	3.44E-06	8.8902E-05
519872.23	4258403.42	4165.24308	0.12461	0.55552	0.12843	0.53963	7.92E-05	2.93E-07	1.14E-06	3.02E-07	1.06E-06	8.1969E-05
519859.32	4258483.31	4162.74439	0.13967	0.49201	0.14512	0.48042	7.91E-05	3.28E-07	1.01E-06	3.41E-07	9.46E-07	8.1750E-05
519859.32	4258264.95	4156.97802	0.08821	0.50238	0.08853	0.48569	7.90E-05	2.07E-07	1.03E-06	2.08E-07	9.56E-07	8.1418E-05
519819.65	4258561.06	4147.169	0.13373	0.36836	0.13939	0.36184	7.88E-05	3.14E-07	7.55E-07	3.27E-07	7.12E-07	8.0939E-05
519749.35	4258708.89	4144.56978	0.11874	0.23692	0.12233	0.23479	7.88E-05	2.79E-07	4.86E-07	2.87E-07	4.62E-07	8.0295E-05
519866.3	4258345.05	4143.27527	0.10653	0.53369	0.10827	0.51733	7.88E-05	2.50E-07	1.09E-06	2.54E-07	1.02E-06	8.1373E-05
519809.73	4258580.5	4142.8893	0.1319	0.34406	0.138	0.33862	7.87E-05	3.10E-07	7.06E-07	3.24E-07	6.67E-07	8.0755E-05
519857.72	4258238.37	4141.53687	0.08353	0.49453	0.08379	0.47723	7.87E-05	1.96E-07	1.01E-06	1.97E-07	9.39E-07	8.1070E-05
519849.4	4258502.75	4138.78267	0.1385	0.45616	0.14412	0.44639	7.87E-05	3.25E-07	9.36E-07	3.38E-07	8.79E-07	8.1149E-05
519829.57	4258541.62	4136.67272	0.13523	0.3943	0.14058	0.38708	7.86E-05	3.17E-07	8.09E-07	3.30E-07	7.62E-07	8.0849E-05
519839.48	4258522.19	4135.42047	0.13699	0.4237	0.14249	0.41539	7.86E-05	3.22E-07	8.69E-07	3.35E-07	8.18E-07	8.0950E-05
519770.89	4258664.84	4134.97597	0.12421	0.2676	0.12929	0.26512	7.86E-05	2.92E-07	5.49E-07	3.04E-07	5.22E-07	8.0264E-05
519870.38	4258432.17	4130.97221	0.13198	0.54322	0.13642	0.52858	7.85E-05	3.10E-07	1.11E-06	3.20E-07	1.04E-06	8.1307E-05
519799.81	4258599.93	4127.00352	0.12984	0.32158	0.136	0.31748	7.84E-05	3.05E-07	6.60E-07	3.19E-07	6.25E-07	8.0355E-05
519858.12	4258289.71	4121.93993	0.09263	0.50647	0.09318	0.48976	7.84E-05	2.17E-07	1.04E-06	2.19E-07	9.64E-07	8.0790E-05
519869.16	4258386.62	4107.64485	0.1184	0.54456	0.12163	0.52876	7.81E-05	2.78E-07	1.12E-06	2.86E-07	1.04E-06	8.0800E-05
520058.74	4257635.62	4104.91196	0.0495	2.4012	0.05067	1.52317	7.80E-05	1.16E-07	4.92E-06	1.19E-07	3.00E-06	8.6185E-05
519788.89	4258619.37	4100.41114	0.12755	0.30143	0.13335	0.29826	7.79E-05	2.99E-07	6.18E-07	3.13E-07	5.87E-07	7.9759E-05
519862.02	4258331.18	4074.81257	0.10179	0.51689	0.10314	0.50095	7.75E-05	2.39E-07	1.06E-06	2.42E-07	9.86E-07	7.9982E-05
519764.44	4258673.31	4074.7917	0.12171	0.2583	0.12646	0.256	7.75E-05	2.86E-07	5.30E-07	2.97E-07	5.04E-07	7.9071E-05
520048.57	4257645.58	4070.74567	0.04937	2.12672	0.05093	1.39333	7.74E-05	1.16E-07	4.36E-06	1.20E-07	2.74E-06	8.4717E-05
519779.97	4258638.81	4070.21172	0.12509	0.28353	0.13049	0.28079	7.74E-05	2.94E-07	5.81E-07	3.06E-07	5.53E-07	7.9102E-05
519866.87	4258440.7	4063.36958	0.1323	0.52755	0.13681	0.51384	7.72E-05	3.11E-07	1.08E-06	3.21E-07	1.01E-06	7.9963E-05
519865.99	4258370.06	4060.51281	0.11256	0.53234	0.1152	0.51674	7.72E-05	2.64E-07	1.09E-06	2.70E-07	1.02E-06	7.9827E-05
519855.72	4258273.7	4059.13764	0.08866	0.48982	0.08901	0.47377	7.72E-05	2.08E-07	1.00E-06	2.09E-07	9.33E-07	7.9511E-05
519868.57	4258412.31	4058.66696	0.12517	0.53875	0.12909	0.52404	7.71E-05	2.94E-07	1.10E-06

519859.18	4258362.36	3898.80145	0.10772	0.50542	0.11009	0.49105	7.41E-05	2.53E-07	1.04E-06	2.58E-07	9.67E-07	7.6624E-05
519848.7	4258266.51	3890.18915	0.08516	0.46024	0.08542	0.44511	7.39E-05	2.00E-07	9.44E-07	2.01E-07	8.76E-07	7.6166E-05
519861.26	4258430.08	3889.53006	0.12596	0.50749	0.13004	0.49449	7.39E-05	2.96E-07	1.04E-06	3.05E-07	9.74E-07	7.6549E-05
519779.89	4258619.41	3884.80268	0.12132	0.28599	0.1266	0.28318	7.38E-05	2.85E-07	5.87E-07	2.97E-07	5.57E-07	7.5569E-05
519861.92	4258404.22	3881.35452	0.11937	0.51269	0.1229	0.4993	7.38E-05	2.80E-07	1.05E-06	2.89E-07	9.83E-07	7.6381E-05
519845.08	4258213.63	3871.03495	0.07689	0.44749	0.07706	0.43102	7.36E-05	1.81E-07	9.18E-07	1.81E-07	8.48E-07	7.5709E-05
519754.86	4258674.36	3864.59018	0.11622	0.24668	0.12054	0.24458	7.35E-05	2.73E-07	5.06E-07	2.83E-07	4.81E-07	7.5002E-05
519848.52	4258291.2	3862.82987	0.08966	0.46781	0.09025	0.45269	7.34E-05	2.10E-07	9.59E-07	2.12E-07	8.91E-07	7.5698E-05
519845.09	4258251.01	3852.12449	0.08216	0.45081	0.08235	0.43556	7.32E-05	1.93E-07	9.25E-07	1.93E-07	8.57E-07	7.5390E-05
519769.97	4258638.85	3851.2079	0.119	0.26954	0.1239	0.26708	7.32E-05	2.79E-07	5.53E-07	2.91E-07	5.26E-07	7.4853E-05
519809.61	4258551.41	3839.34812	0.1248	0.34855	0.12966	0.34269	7.30E-05	2.93E-07	7.15E-07	3.04E-07	6.75E-07	7.4966E-05
519799.69	4258570.84	3838.98827	0.12318	0.32661	0.12838	0.32147	7.30E-05	2.89E-07	6.70E-07	3.01E-07	6.33E-07	7.4865E-05
519843.45	4258224.29	3838.50622	0.07796	0.44222	0.0781	0.42652	7.30E-05	1.83E-07	9.07E-07	1.83E-07	8.40E-07	7.5076E-05
519819.53	4258531.97	3830.04031	0.12632	0.37224	0.1311	0.36581	7.28E-05	2.97E-07	7.63E-07	3.08E-07	7.20E-07	7.4890E-05
519858.81	4258387.51	3829.87012	0.11368	0.50306	0.11679	0.48958	7.28E-05	2.67E-07	1.03E-06	2.74E-07	9.64E-07	7.5335E-05
519857.6	4258438.96	3827.62517	0.12622	0.49288	0.13038	0.48089	7.28E-05	2.96E-07	1.01E-06	3.06E-07	9.47E-07	7.5316E-05
519789.77	4258590.28	3825.58183	0.1214	0.30613	0.12687	0.30205	7.27E-05	2.85E-07	6.28E-07	2.98E-07	5.95E-07	7.4523E-05
519854.64	4258349.11	3824.37037	0.1029	0.48877	0.10487	0.47473	7.27E-05	2.42E-07	1.00E-06	2.46E-07	9.35E-07	7.5119E-05
519839.36	4258493.09	3821.08391	0.12917	0.4278	0.13416	0.41918	7.26E-05	3.03E-07	8.77E-07	3.15E-07	8.25E-07	7.4953E-05
519820.44	4258512.53	3819.53858	0.12778	0.39855	0.1327	0.39123	7.26E-05	3.00E-07	8.17E-07	3.12E-07	7.70E-07	7.4802E-05
519748.46	4258682.95	3811.68278	0.11396	0.23856	0.11798	0.23657	7.25E-05	2.68E-07	4.89E-07	2.77E-07	4.66E-07	7.3953E-05
519845.12	4258275.2	3806.93919	0.0858	0.45191	0.08615	0.43724	7.24E-05	2.01E-07	9.27E-07	2.02E-07	8.61E-07	7.4554E-05
519851.48	4258332.54	3806.91152	0.09834	0.47848	0.09985	0.46424	7.24E-05	2.31E-07	9.81E-07	2.34E-07	9.14E-07	7.4723E-05
519779.85	4258609.72	3801.37457	0.11945	0.28726	0.12468	0.2843	7.23E-05	2.80E-07	5.89E-07	2.93E-07	5.60E-07	7.3979E-05
519763.61	4258647.54	3796.03309	0.11682	0.26024	0.12148	0.25792	7.22E-05	2.74E-07	5.34E-07	2.85E-07	5.08E-07	7.3757E-05
519858.29	4258413.02	3794.19963	0.11984	0.49854	0.12349	0.48594	7.21E-05	2.81E-07	1.02E-06	2.90E-07	9.57E-07	7.4671E-05
519855.61	4258371.01	3789.78736	0.10834	0.49268	0.11099	0.47911	7.20E-05	2.54E-07	1.01E-06	2.61E-07	9.43E-07	7.4505E-05
519848.24	4258316.16	3786.64588	0.0941	0.46777	0.09521	0.45333	7.20E-05	2.21E-07	9.59E-07	2.24E-07	8.92E-07	7.4273E-05
519853.95	4258447.85	3779.39162	0.12638	0.47881	0.13062	0.46759	7.18E-05	2.97E-07	9.82E-07	3.07E-07	9.20E-07	7.4345E-05
519769.93	4258629.15	3766.65337	0.11727	0.27061	0.12212	0.26814	7.16E-05	2.75E-07	5.55E-07	2.87E-07	5.28E-07	7.3242E-05
519841.41	4258259.97	3763.11288	0.08257	0.44022	0.08281	0.42551	7.15E-05	1.94E-07	9.03E-07	1.94E-07	8.38E-07	7.3659E-05
519742.01	4258691.44	3761.35006	0.11177	0.23081	0.11542	0.22895	7.15E-05	2.62E-07	4.73E-07	2.71E-07	4.51E-07	7.2954E-05
519844.92	4258299.95	3757.41441	0.09012	0.45649	0.0909	0.44196	7.14E-05	2.12E-07	9.36E-07	2.13E-07	8.70E-07	7.3653E-05
519850.29	4258456.74	3748.82258	0.12653	0.46556	0.13089	0.45498	7.13E-05	2.97E-07	9.55E-07	3.07E-07	8.96E-07	7.3713E-05
519799.65	4258561.14	3746.78149	0.12101	0.32787	0.12581	0.32262	7.12E-05	2.84E-07	6.72E-07	2.95E-07	6.35E-07	7.3107E-05
519809.57	4258541.71	3741.65627	0.12253	0.34964	0.12714	0.34382	7.11E-05	2.88E-07	7.17E-07	2.98E-07	6.77E-07	7.3102E-05
519757.2	4258656.12	3740.99133	0.11464	0.25137	0.11903	0.24921	7.11E-05	2.69E-07	5.16E-07	2.79E-07	4.91E-07	7.2664E-05
519789.73	4258580.58	3739.59975	0.11936	0.30764	0.12452	0.30521	7.11E-05	2.80E-07	6.31E-07	2.92E-07	5.97E-07	7.2883E-05
519819.48	4258522.27	3729.36377	0.12398	0.37345	0.12866	0.36697	7.09E-05	2.91E-07	7.66E-07	3.02E-07	7.22E-07	7.2970E-05
519839.32	4258483.4	3727.95584	0.12666	0.42878	0.1314	0.42003	7.09E-05	2.97E-07	8.79E-07	3.08E-07	8.27E-07	7.3174E-05
519855.22	4258396.23	3727.12778	0.11412	0.48904	0.11737	0.47653	7.08E-05	2.68E-07	1.00E-06	2.76E-07	9.38E-07	7.3330E-05
519846.63	4258465.62	3723.7055	0.12643	0.45224	0.13088	0.44239	7.08E-05	2.97E-07	9.28E-07	3.07E-07	8.71E-07	7.3183E-05
519829.4	4258502.83	3720.18332	0.1254	0.39972	0.13019	0.3923	7.07E-05	2.94E-07	8.20E-07	3.06E-07	7.72E-07	7.2906E-05
519779.81	4258600.02	3720.16493	0.11758	0.28857	0.1227	0.28533	7.07E-05	2.76E-07	5.92E-07	2.88E-07	5.62E-07	7.2431E-05
519841.55	4258283.89	3720.13908	0.08638	0.44329	0.08688	0.42899	7.07E-05	2.03E-07	9.09E-07	2.04E-07	8.44E-07	7.2873E-05
519842.98	4258474.51	3719.36844	0.12653	0.4402	0.13113	0.43095	7.07E-05	2.97E-07	9.03E-07	3.08E-07	8.48E-07	7.3055E-05
519854.67	4258421.83	3716.57041	0.12019	0.4847	0.12393	0.47288	7.06E-05	2.82E-07	9.94E-07	2.91E-07	9.31E-07	7.3143E-05
519850.96	4258358.07	3712.37918	0.10352	0.4764	0.1058	0.46317	7.06E-05	2.43E-07	9.77E-07	2.48E-07	9.12E-07	7.2944E-05
519838.04	4258243.88	3711.70273	0.07935	0.42694	0.07949	0.41239	7.06E-05	1.86E-07	8.76E-07	1.87E-07	8.12E-07	7.2613E-05
519751.14	4258665.52	3701.77493	0.1128	0.2433	0.11694	0.24128	7.04E-05	2.65E-07	4.99E-07	2.75E-07	4.75E-07	7.1877E-05
519836.31	4258217.24	3700.71905	0.07541	0.4192	0.07552	0.40413	7.03E-05	1.77E-07	8.60E-07	1.77E-07	7.96E-07	7.2354E-05
519847.82	4258341.42	3689.02888	0.09884	0.46571	0.10064	0.45238	7.01E-05	2.32E-07	9.55E-07	2.36E-07	8.91E-07	7.2436E-05
519769.89	4258619.46	3688.05895	0.11554	0.2717	0.12036	0.26916	7.01E-05	2.71E-07	5.57E-07	2.83E-07	5.30E-07	7.1744E-05
519852.05	4258379.67	3680.66653	0.10882	0.47956	0.11168	0.46692	7.00E-05	2.55E-07	9.84E-07	2.62E-07	9.19E-07	7.2383E-05
519844.61	4258324.97	3669.95039	0.09453	0.45517	0.09591	0.44164	6.98E-05	2.22E-07	9.34E-07	2.25E-07	8.69E-07	7.2009E-05
519837.73	4258268.92	3669.40876	0.08297	0.42964	0.08329	0.41551	6.97E-05	1.95E-07	8.81E-07	1.96E-07	8.18E-07	7.1838E-05
519799.61	4258551.45	3655.68616	0.11888	0.32897	0.12335	0.32369	6.95E-05	2.79E-07	6.75E-07	2.90E-07	6.37E-07	7.1369E-05
519789.69	4258570.88	3654.88025	0.11734	0.30895	0.12212	0.30429	6.95E-05	2.75E-07	6.34E-07	2.87E-07	5.99E-07	7.1267E-05
519841.32	4258308.7	3650.60525	0.09056	0.44469	0.09157	0.43095	6.94E-05	2.13E-07	9.12E-07	2.15E-07	8.48E-07	7.1579E-05
519759.97	4258638.89	3650.49082	0.11334	0.25657	0.11781	0.2543	6.94E-05	2.66E-07	5.26E-07	2.77E-07	5.01E-07	7.0959E-05
519744.76	4258674.16	3649.80706	0.11067	0.23536	0.11456	0.23345	6.94E-05	2.60E-07	4.83E-07	2.69E-07	4.60E-07	7.0847E-05
519851.05	4258430.63	3649.64506	0.1204	0.47103	0.1242	0.45999	6.94E-05	2.83E-07	9.66E-07	2.92E-07	9.05E-07	7.1819E-05
519809.53	4258532.01	3645.58448	0.12033	0.35064	0.12476	0.34484	6.93E-05	2.82E-07	7.19E-07	2.93E-07	6.79E-07	7.1269E-05
519779.77	4258590.32	3640.62353	0.11567	0.29014	0.12067	0.28646	6.92E-05	2.72E-07	5.95E-07	2.83E-07	5.64E-07	7.0915E-05
519851.63	4258404.96	3634.02745	0.11449	0.47551	0.11783	0.46387	6.91E-05	2.69E-07	9.75E-07	2.77E-07	9.13E-07	7.1510E-05
519819.44	4258512.57	3631.58891	0.12173	0.37447	0.12629	0.36796	6.90E-05	2.86E-07	7.68E-07	2.96E-07	7.24E-07	7.1105E-05
519834.39	4258252.77	3627.41814	0.07972	0.41724	0.07991	0.40321	6.90E-05	1.87E-07	8.56E-07	1.88E-07	7.94E-07	7.0975E-05
519829.36	4258493.14	3626.07207	0.1231	0.40083	0.12775	0.39326	6.89E-05	2.89E-07	8.22E-07	3.00E-07	7.74E-07	7.1110E-05
519837.97	4258292.57	3623.46539	0.08682	0.4333	0.08752	0.41952	6.89E-05	2.04E-07	8.89E-07	2.05E-07	8.26E-07	7.0999E-05
519769.85	4258609.76	3613.77736	0.11382	0.27284	0.1186	0.27014	6.87E-05	2.67E-07	5.60E-07	2.78E-07	5.32E-07	7.0328E-05
519847.27	4258367.04	3600.47184	0.10403	0.46369	0.10656	0.45138	6.84E-05	2.44E-07	9.51E-07	2.50E-07	8.89E-07	7.0772E-05
519753.59	4258647.53	3598.12457	0.11131	0.24792	0.11552	0.2458	6.84E-05	2.61E-07	5.08E-07	2.71E-07	4.84E-07	6.9919E-05
519738.34	4258682.71	3598.09712	0.10853	0.22781	0.11217	0.22597	6.84E-05	2.55E-07	4.67E-07	2.63E-07	4.45E-07	6.9823E-05
519847.43	4258439.43	3596.37869	0.12052	0.45791	0.12438	0.4476	6.84E-05	2.83E-07	9.39E-07	2.92E-07	8.81E-07	7.0756E-05
519830.99	4258236.75	3580.65147	0.0767	0.40473	0.0768	0.39081	6.81E-05	1.80E-07	8.30E-07	1.80E-07	7.69E-07	7.0021E-05
519848.49	4258388.32	3580.44337	0.10923	0.4669	0.11225	0.45509	6.81E-05	2.56E-07	9.58E-07	2.64E-07	8.96E-07	7.0431E-05
519759.93	4258629.19	3576.90525	0.11176	0.25748	0.11618	0.25523	6.80E-05	2.62E-07	5.28E-07	2.73E-07	5.02E-07	6.9556E-05
519844.17	4258350.31	3574.7567	0.09931	0.45334	0.10139	0.44093	6.79E-05	2.33E-07	9.30E-07	2.38E-07	8.68E-07	7.0219E-05
519834.04	4258277.87	3574.40273	0.08337	0.41959	0.08385	0.406	6.79E-05	1.96E-07	8.61E-07	1.97E-07	7.99E-07	6.9995E-05
519789.65	4258561.19	3570.58477	0.11535	0.31005	0.11976	0.30527	6.79E-05	2.71E-07	6.36E-07	2.81E-07	6.01E-07	6.9659E-05
519799.57	4258541.75	3565.28315	0.1168	0.32988	0.12103	0.32463	6.78E-05	2.74E-07	6.77E-07	2.84E-07	6.39E-07	6.9644E-05
519779.73	4258580.62	3562.53845	0.11379	0.2915	0.11851	0.28746	6.77E-05	2.67E-07	5.98E-07	2.78E-07	5.66E-07	6.9426E-05
519843.81	4258448.23	3557.67199	0.12056	0.44538	0.1245	0.43567	6.76E-05	2.83E-07	9.13E-07	2.92E-07	8.58E-07	6.9971E-05
519848.04	4258413.68	3557.28045	0.11485	0.46308	0.11829	0.45208	6.76E-05	2.70E-07	9.50E-07	2.78E-07	8.90E-07	7.0004E-05
519747.42	4258656.67	3554.09694	0.10948	0.23993	0.11346	0.23793	6.76E-05	2.57E-07	4.92E-07	2.66E-07	4.68E-07	6.9041E-05
519840.98	4258333.79	3554.01108	0.09493	0.4428	0.09657	0.43022	6.76E-05	2.23E-07	9.08E-07	2.27E-07	8.47E-07	6.9760E-05
519809.48	4258521.31	3551.03593	0.11819	0.35156	0.1225	0.34576	6.75E-05	2.77E-07	7.21E-07	2.88E-07	6.81E-07	6.9465E-05
519830.73	4258261.65	3543.45299	0.08011	0.40843	0.08042	0.3948	6.74E-05	1.88E-07	8.38E-07	1.89E-07	7.77E-07	6.9346E-05
519769.81	4258600.06	3541.73759	0.11209	0.27406	0.11679	0.27107	6.73E-05	2.63E-07	5.62E-07	2.74E-07	5.34E-07	6.8955E-05
519837.72	4258317.45	3540.66997	0.09096	0.43318	0.09223	0.42028	6.73E-05	2.14E-07	8.88E-07	2.17E-07	8.27E-07	6.9448E-05
519829.32	4258483.44	3538.18745	0.12084	0.40169	0.1253	0.39399	6.73E-05	2.84E-07	8.24E-07	2.94E-07	7.76E-07	6.9432E-05
519819.4	4258502.88	3537.47111	0.11956	0.37541	0.12401	0.36883	6.72E-05	2.81E-07	7.70E-07	2.91E-07	7.26E-07	6.9309E-05
519840.19	4258457.03	3532.41746	0.12055	0.4334	0.1246	0.42425	6.71E-05	2.83E-07	8.89E-07	2.93E-07	8.35E-07	6.9444E-05
519832.94	4258474.64	3525.45211	0.12073	0.41172	0.12505	0.40362	6.70E-05	2.83E-07	8.44E-07	2.94E-07	7.95E-07	6.9228E-05
519834.4	4258301.26	3523.02316	0.08725	0.42351	0.08819	0.41029	6.70E-05	2.05E-07	8.69E-07	2.07E-07	8.08E-07	6.9054E-05
519836.57	4258465.84	3522.38442	0.12062	0.42225	0.12479	0.41364	6.70E-05	2.83E-07	8.66E-07	2.93E-07	8.14E-07	6.9211E-05
519759.89	4258619.5	3507.90104	0.11018	0.25843	0.11457	0.25611	6.67E-05	2.59E-07	5.30E-07	2.69E-07	5.04E-07	6.8241E-05
519741.06	4258665.38	3503.66993	0.10748	0.23219	0.11125	0.23028	6.66E-05	2.52E-07	4.76E-07	2.61E-07	4.53E-07	6.8041E-05
519827.36	4258245.58	3502.41414	0.07706	0.39617	0.07722	0.38271	6.66E-05	1.81E-07	8.13E-07	1.81E-07	7.53E-07	6.8503E-05
519843.58	4258376	3494.04002	0.10446	0.45113	0.10716	0.43972	6.64E-05	2.45E-07	9.25E-07	2.52E-07	8.66E-07	6.8703E-05
519844.45	4258422.41	3490.61464	0.11507	0.45054	0.11857	0.44023	6.64E-05	2.70E-07	9.24E-07	2.78E-07	8.67E-07	6.8689E-05
519844.93	4258396.98	3490.15044	0.1096	0.45435	0.1127	0.44338	6.63E-05	2.57E-07	9.32E-07	2.65E-07	8.73E-07	6.8668E-05
519789.61	4258551.49	3486.42193	0.11339	0.31099	0.1175	0.30618	6.63E-05	2.66E-07	6.38E-07	2.76E-07	6.03E-07	6.8053E-05
519779.69	4258570.93	3485.47186	0.11193	0.29264	0.11631	0.28838	6.63E-05	2.63E-07	6.00E-07	2.73E-07	5.68E-07	6.7956E-05
519830.36	4258286.82	3479.73459	0.0838	0.41014	0.08448	0.39706	6.61E-05	1.97E-07	8.41E-07	1.98E-07	7.82E-07	6.8161E-05
519799.53	4258532.05	3475.42276	0.11478	0.33057	0.11881	0.32539	6.61E-05	2.69E-07	6.78E-07	2.79E-07	6.41E-07	6.7928E-05
519769.77	4258590.36	3469.75195	0.11034	0.2754	0.11491	0.272	6.60E-05	2.59E-07	5.65E-07	2.70E-07	5.35E-07	6.7583E-05
519749.97	4258638.93	3468.59106	0.10812	0.24446	0.11215	0.24238	6.59E-05	2.54E-07	5.01E-07	2.63E-07	4.77E-07	6.7427E-05
519840.51	4258359.2	3467.07227	0.09977	0.44159	0.10208	0.43003	6.59E-05	2.34E-07	9.06E-07	2.40E-07	8.47E-07	6.8129E-05
519823.94	4258229.63	3461.66712	0.07425	0.38475	0.07434	0.37136	6.58E-05	1.74E-07	7.89E-07	1.75E-07	7.31E-07	6.7669E-05
519809.44	4258512.62	3458.90112	0.11613	0.35242	0.12034	0.34658	6.57E-05	2.73E-07	7.23E-07	2.83E-07	6.82E-07	6.7708E-05
519734.66	4258673.98	3454.06173	0.1055	0.22479	0.10903	0.22299	6.57E-05	2.48E-07	4.61E-07	2.56E-07	4.39E-07	6.7059E-05
519827.08	4258270.54	3453.61868	0.0805	0.39918	0.08094	0.38608	6.56E-05	1.89E-07	8.19E-07	1.90E-07	7.60E-07	6.7605E-05
519819.36	4258493.18	3447.56711	0.11745	0.37631	0.12179	0.36959	6.55E-05	2.76E-07	7.72E-07	2.86E-07	7.28E-07	6.7593E-05
519759.85	4258609.8	3442.80668	0.10863	0.25923	0.11291	0.25684	6.54E-05	2.55E-07	5.32E-07	2.65E-07	5.06E-07	6.6999E-05
519837.36	4258342.6	3442.74205	0.0953	0.43106	0.09721	0.41934	6.54E-05	2.24E-07	8.84E-07	2.28E-07	8.25E-07	6.7602E-05
519834.12	4258326.19	3434.25465	0.09137	0.42237	0.09291	0.41027	6.53E-05	2.15E-07	8.66E-07	2.18E-07	8.08E-07	6.7385E-05
519840.86	4258431.13	3433.35948	0.11517	0.43835	0.11873	0.42872	6.53E-05	2.70E-07	8.99E-07	2.79E-07	8.44E-07	6.7554E-05
519823.73	4258254.4	3422.75229	0.07744	0.38807	0.0777	0.375	6.51E-05	1.82E-07	7.96E-07	1.82E-07	7.38E-07	6.6959E-05
519830.82	4258309.95	3421.84187	0.08765	0.41314	0.08884	0.40068	6.50E-05	2.06E-07	8.47E-07	2.09E-07	7.89E-07	6.7093E-05
519743.7	4258647.82	3421.21408	0.1063	0.23656	0.11011	0.23458	6.50E-05	2.50E-07	4.85E-07	2.59E-07	4.62E-07	6.6486E-05
519779.65	4258561.23	3407.97734	0.11009	0.29362	0.11413	0.28922	6.48E-05	2.58E-07	6.02E-07	2.68E-07	5.69E-07	6.6477E-05
519841.37	4258405.63	3407.63991	0.10982	0.44195	0.11298	0.43177	6.48E-05	2.58E-07	9.06E-07	2.65E-07	8.50E-07	6.7052E-05
519749.93	4258629.24	3403.365	0.10665	0.24526	0.11066	0.24317	6.47E-05	2.50E-07	5.03E-07	2.60E-07	4.79E-07	6.6184E-05
519789.57	4258541.79	3402.40903	0.11148	0.31178	0.11536	0.30698	6.47E-05	2.62E-07	6.39E-07	2.71E-07	6.04E-07	6.6450E-05
519769.73	4258580.67	3399.34654	0.10861	0.27659	0.11293	0.27286	6.46E-05	2.55E-07	5.67E-07	2.65E-07	5.37E-07	6.6240E-05
519839.89	4258384.96	3393.95008	0.10479	0.43865	0.10761	0.42811	6.45E-05	2.46E-07	9.00E-07	2.53E-07	8.43E-07	6.6754E-05
519837.27	4258439.86	3389.57149	0.11519	0.42663	0.11881	0.41758	6.44E-05	2.70E-07	8.75E-07	2.82E-07	8.22E-07	6.6676E-05
519799.49	4258522.35	3386.87476	0.11282	0.33144	0.11677	0.32622	6.44E-05	2.65E-07	6.80E-07	2.74E-07	6.42E-07	6.6239E-05
519820.34	4258238.4	3385.43821	0.07456	0.37645	0.0747	0.36354	6.44E-05	1.75E-07	7.72E-07	1.75E-07	7.16E-07	6.6189E-05
519826.67	4258291.78	3381.11355	0.08421	0.40101	0.08514	0.38847	6.43E-05	1.98E-07	8.22E-07	2.00E-07	7.65E-07	6.6254E-05
519759.81	4258600.1	3376.9489	0.10699	0.26057	0.1113	0.25777	6.42E-05	2.51E-07	5.34E-07	2.61E-07	5.07E-07	6.5744E-05
519737.37	4258656.59	3372.5475	0.10444	0.22902	0.10805	0.22711	6.41E-05	2.45E-07	4.70E-07	2.54E-07	4.47E-07	6.5522E-05
519809.4	4258502.92	3369.51521	0.11413	0.3532	0.11826	0.3473	6.40E-05	2.68E-07	7.24E-07	2.78E-07	6.84E-07	6.6002E-05
519836.86	4258368.08	3367.5497	0.1002	0.43044	0.1027	0.41964	6.40E-05	2.35E-07	8.83E-07	2.41E-07	8.26E-07	6.6196E-05
519819.32	4258483.48	3363.12117	0.11539	0.37697	0.11957	0.37015	6.39E-05	2.71E-07	7.73E-07	2.81E-07	7.29E-07	6.5980E-05
519823.42	4258279.43	3362.48989	0.08088	0.39026	0.08152	0.37769	6.39E-05	1.90E-07	8.00E-07	1.91E-07	7.43E-07	6.5840E-05
519833.68	4258448.58	3360.26963	0.11518	0.41556	0.11889	0.40701	6.39E-05	2.70E-07	8.52E-07	2.79E-07	8.01E-07	6.6076E-05
519822.91	4258474.76	3348.99263	0.11534	0.38596	0.11942	0.37878	6.37E-05	2.71E-07	7.92E-07	2.80E-07	7.46E-07	6.5747E-05
519830.09	4258457.31	3344.92387	0.11521	0.40518	0.11904	0.39709	6.36E-05	2.70E-07	8.31E-07	2.79E-07	7.82E-07	6.5744E-05
519833.73	4258351.42	3344.58825	0.09582	0.42109	0.09797	0.41011	6.36E-05	2.25E-07	8.64E-07	2.30E-07	8.07E-07	6.5700E-05
519837.81	4258414.29	3343.93242	0.11011	0.43103	0.11336	0.42135	6.36E-05	2.59E-07	8.84E-07	2.66E-07	8.29E-07	6.5800E-05
519826.5	4258466.03	3342.9893	0.11531	0.39546	0.11927	0.38785	6.35E-05	2.71E-07	8.11E-07	2.80E-07	7.63E-07	6.5669E-05
519749.89	4258619.54	3342.37489	0.1052	0.24609	0.10919	0.24394	6.35E-05	2.47E-07	5.05E-07	2.56E-07	4.80E-07	6.5021E-05
519820.1	4258263.23	3338.1905	0.07779	0.37967	0.0782	0.36709	6.35E-05	1.83E-07	7.79E-07	1.84E-07	7.23E-07	6.5320E-05
519830.52	4258334.94	3331.32794	0.09178	0.41205	0.09358	0.40072	6.33E-05	2.15E-07	8.45E-07	2.20E-07	7.89E-07	6.5392E-05
519778.61	4258551.53	3330.14848	0.10829	0.29444	0.11205	0.29	6.33E-05	2.54E-07	6.04E-07	2.63E-07	5.71E-07	6.4992E-05
519769.69	4258570.97	3328.89253	0.1069	0.27757	0.11089	0.27363	6.33E-05	2.51E-07	5.69E-07

519779.53	4258532.14	3173.33058	0.10481	0.29567	0.10823	0.29124	6.03E-05	2.46E-07	6.06E-07	2.54E-07	5.73E-07	6.1999E-05
519828.83	4258411.85	3169.94453	0.1056	0.40579	0.10867	0.39698	6.03E-05	2.48E-07	8.32E-07	2.55E-07	7.81E-07	6.2372E-05
519749.77	4258590.45	3167.13969	0.10076	0.24899	0.10456	0.24602	6.02E-05	2.37E-07	5.11E-07	2.45E-07	4.84E-07	6.1679E-05
519812.84	4258280.88	3162.95795	0.07847	0.36325	0.07929	0.35176	6.01E-05	1.84E-07	7.45E-07	1.86E-07	6.92E-07	6.1930E-05
519826.47	4258369.05	3157.39343	0.09657	0.40087	0.09904	0.39125	6.00E-05	2.27E-07	8.22E-07	2.33E-07	7.70E-07	6.2068E-05
519789.44	4258512.7	3152.68636	0.10605	0.31375	0.10964	0.30889	5.99E-05	2.49E-07	6.43E-07	2.57E-07	6.08E-07	6.1685E-05
519729.97	4258639.02	3147.82864	0.09872	0.2226	0.10202	0.22077	5.98E-05	2.32E-07	4.57E-07	2.40E-07	4.35E-07	6.1197E-05
519809.51	4258264.7	3143.23386	0.0755	0.35301	0.07606	0.34153	5.97E-05	1.77E-07	7.24E-07	1.79E-07	6.72E-07	6.1499E-05
519823.32	4258352.44	3137.75841	0.09252	0.39243	0.09471	0.38256	5.96E-05	2.17E-07	8.05E-07	2.22E-07	7.53E-07	6.1641E-05
519739.85	4258609.88	3137.15369	0.09919	0.29539	0.10281	0.29319	5.96E-05	2.33E-07	4.83E-07	2.41E-07	4.59E-07	6.1048E-05
519799.36	4258493.26	3132.87642	0.10729	0.33341	0.11104	0.32798	5.96E-05	2.52E-07	6.84E-07	2.61E-07	6.46E-07	6.1392E-05
519820.1	4258336.02	3123.69275	0.08871	0.38369	0.0906	0.37355	5.94E-05	2.08E-07	7.87E-07	2.13E-07	7.35E-07	6.1319E-05
519759.65	4258561.31	3118.09684	0.10063	0.26437	0.10398	0.26054	5.93E-05	2.36E-07	5.42E-07	2.44E-07	5.13E-07	6.0805E-05
519825.14	4258420.82	3115.79065	0.1057	0.39532	0.10883	0.38703	5.92E-05	2.48E-07	8.11E-07	2.55E-07	7.62E-07	6.1302E-05
519769.57	4258541.88	3112.33325	0.1019	0.27971	0.10515	0.27556	5.92E-05	2.39E-07	5.74E-07	2.47E-07	5.42E-07	6.0762E-05
519825.89	4258394.74	3111.14301	0.10112	0.39892	0.10393	0.38998	5.91E-05	2.37E-07	8.18E-07	2.44E-07	7.68E-07	6.1204E-05
519749.73	4258580.75	3108.54853	0.09928	0.24991	0.10286	0.24664	5.91E-05	2.33E-07	5.13E-07	2.41E-07	4.86E-07	6.0561E-05
519723.65	4258647.79	3102.68024	0.09709	0.21574	0.1002	0.21398	5.90E-05	2.28E-07	4.42E-07	2.35E-07	4.21E-07	6.0303E-05
519729.93	4258629.32	3096.78987	0.09746	0.22321	0.10076	0.22135	5.89E-05	2.29E-07	4.58E-07	2.37E-07	4.36E-07	6.0223E-05
519779.49	4258522.44	3094.79419	0.10313	0.29623	0.10648	0.29177	5.88E-05	2.42E-07	6.08E-07	2.50E-07	5.74E-07	6.0500E-05
519739.81	4258600.19	3084.94291	0.09782	0.23626	0.10139	0.23377	5.86E-05	2.30E-07	4.85E-07	2.38E-07	4.60E-07	6.0052E-05
519815.62	4258322.63	3083.06096	0.08527	0.37205	0.08692	0.36181	5.86E-05	2.00E-07	7.63E-07	2.04E-07	7.12E-07	6.0483E-05
519812.45	4258306.09	3081.34338	0.08196	0.3642	0.08331	0.35355	5.86E-05	1.92E-07	7.47E-07	1.96E-07	6.96E-07	6.0402E-05
519809.21	4258289.7	3074.06559	0.07881	0.35552	0.07987	0.34461	5.84E-05	1.85E-07	7.29E-07	1.88E-07	6.78E-07	6.0212E-05
519822.85	4258377.86	3073.02504	0.09686	0.39122	0.09943	0.38219	5.84E-05	2.27E-07	8.02E-07	2.33E-07	7.52E-07	6.0428E-05
519789.4	4258503	3071.90012	0.10435	0.31423	0.10789	0.30933	5.84E-05	2.45E-07	6.44E-07	2.53E-07	6.09E-07	6.0143E-05
519821.45	4258429.78	3071.88207	0.10568	0.38505	0.10886	0.37729	5.84E-05	2.48E-07	7.90E-07	2.56E-07	7.43E-07	6.0427E-05
519805.91	4258273.47	3058.4204	0.0758	0.34539	0.07657	0.33446	5.81E-05	1.78E-07	7.08E-07	1.80E-07	6.58E-07	5.9860E-05
519799.32	4258483.56	3054.96761	0.10555	0.33383	0.10921	0.32829	5.81E-05	2.48E-07	6.85E-07	2.56E-07	6.46E-07	5.9904E-05
519759.61	4258551.61	3050.95794	0.09908	0.26497	0.10221	0.26108	5.80E-05	2.33E-07	5.43E-07	2.40E-07	5.14E-07	5.9523E-05
519819.72	4258361.19	3049.52275	0.09284	0.38324	0.09516	0.374	5.80E-05	2.18E-07	7.86E-07	2.23E-07	7.36E-07	5.9929E-05
519749.69	4258571.05	3049.34233	0.09781	0.25068	0.10112	0.24719	5.80E-05	2.30E-07	5.14E-07	2.37E-07	4.87E-07	5.9430E-05
519729.89	4258619.62	3048.95626	0.09622	0.22384	0.09951	0.22191	5.80E-05	2.26E-07	4.59E-07	2.34E-07	4.37E-07	5.9311E-05
519822.23	4258403.63	3045.84909	0.1013	0.38899	0.10418	0.38057	5.79E-05	2.38E-07	7.98E-07	2.45E-07	7.49E-07	5.9925E-05
519817.76	4258438.75	3041.44003	0.10562	0.3753	0.10888	0.36796	5.78E-05	2.48E-07	7.70E-07	2.56E-07	7.24E-07	5.9810E-05
519769.53	4258532.18	3038.49978	0.10031	0.28018	0.10344	0.27602	5.78E-05	2.35E-07	5.75E-07	2.43E-07	5.43E-07	5.9353E-05
519803.01	4258474.6	3038.30511	0.10561	0.34146	0.10922	0.33562	5.78E-05	2.48E-07	7.00E-07	2.56E-07	6.61E-07	5.9618E-05
519739.77	4258590.49	3032.6857	0.09645	0.23711	0.09989	0.23432	5.76E-05	2.26E-07	4.88E-07	2.35E-07	4.61E-07	5.9054E-05
519816.52	4258344.71	3029.49519	0.08899	0.37435	0.09103	0.36494	5.76E-05	2.09E-07	7.68E-07	2.14E-07	7.18E-07	5.9494E-05
519814.08	4258447.71	3024.75443	0.10559	0.3662	0.10894	0.35925	5.75E-05	2.48E-07	7.51E-07	2.56E-07	7.07E-07	5.9457E-05
519806.7	4258465.64	3024.00925	0.10558	0.3493	0.10912	0.34313	5.75E-05	2.48E-07	7.16E-07	2.56E-07	6.75E-07	5.9377E-05
519810.39	4258456.67	3018.15572	0.10555	0.35747	0.10899	0.35091	5.74E-05	2.48E-07	7.33E-07	2.56E-07	6.91E-07	5.9304E-05
519779.44	4258512.74	3016.54848	0.10151	0.29669	0.1048	0.29219	5.73E-05	2.38E-07	6.08E-07	2.46E-07	5.75E-07	5.9007E-05
519719.97	4258639.06	3007.03079	0.0945	0.21269	0.09748	0.21097	5.72E-05	2.22E-07	4.36E-07	2.29E-07	4.15E-07	5.8460E-05
519729.85	4258609.93	3001.78637	0.09495	0.22455	0.09825	0.22244	5.71E-05	2.23E-07	4.61E-07	2.31E-07	4.38E-07	5.8411E-05
519819.22	4258386.68	2997.44564	0.09709	0.38198	0.09974	0.37341	5.70E-05	2.28E-07	7.83E-07	2.34E-07	7.35E-07	5.8957E-05
519789.36	4258493.3	2993.61313	0.1027	0.31466	0.10619	0.30967	5.69E-05	2.41E-07	6.45E-07	2.49E-07	6.10E-07	5.8649E-05
519818.57	4258412.51	2991.91503	0.10142	0.37941	0.10437	0.37145	5.69E-05	2.38E-07	7.78E-07	2.45E-07	7.31E-07	5.8863E-05
519808.79	4258314.97	2988.91146	0.08227	0.35568	0.08385	0.34573	5.68E-05	1.93E-07	7.29E-07	1.97E-07	6.81E-07	5.8614E-05
519749.65	4258561.35	2988.21505	0.09636	0.25132	0.0994	0.24769	5.68E-05	2.26E-07	5.15E-07	2.33E-07	4.88E-07	5.8263E-05
519811.94	4258331.59	2987.52236	0.08557	0.36302	0.08741	0.35352	5.68E-05	2.01E-07	7.45E-07	2.05E-07	6.96E-07	5.8634E-05
519805.58	4258298.53	2984.91734	0.07913	0.34756	0.08042	0.3373	5.67E-05	1.86E-07	7.13E-07	1.89E-07	6.64E-07	5.8489E-05
519759.57	4258541.92	2982.55918	0.09757	0.26544	0.10053	0.26153	5.67E-05	2.29E-07	5.44E-07	2.36E-07	5.15E-07	5.8217E-05
519739.73	4258580.79	2978.40776	0.09507	0.23796	0.09832	0.23485	5.66E-05	2.23E-07	4.88E-07	2.31E-07	4.62E-07	5.8019E-05
519802.3	4258282.24	2973.82693	0.07611	0.33807	0.0771	0.32771	5.65E-05	1.79E-07	6.93E-07	1.81E-07	6.45E-07	5.8225E-05
519816.12	4258369.94	2966.7726	0.0931	0.37415	0.09551	0.36548	5.64E-05	2.19E-07	7.67E-07	2.24E-07	7.19E-07	5.8323E-05
519769.49	4258522.48	2964.2809	0.09876	0.28059	0.10182	0.27642	5.63E-05	2.32E-07	5.75E-07	2.39E-07	5.44E-07	5.7936E-05
519719.93	4258629.36	2961.32865	0.09332	0.21322	0.09632	0.21146	5.63E-05	2.19E-07	4.37E-07	2.26E-07	4.16E-07	5.7588E-05
519729.81	4258600.23	2954.48878	0.09368	0.22532	0.09693	0.22294	5.62E-05	2.20E-07	4.62E-07	2.28E-07	4.39E-07	5.7508E-05
519812.95	4258353.4	2948.39118	0.08935	0.36643	0.09154	0.35753	5.60E-05	2.10E-07	7.52E-07	2.15E-07	7.04E-07	5.7924E-05
519814.92	4258421.4	2945.97962	0.10144	0.36994	0.10443	0.36246	5.60E-05	2.38E-07	7.59E-07	2.45E-07	7.13E-07	5.7963E-05
519779.4	4258503.04	2939.60021	0.09994	0.29705	0.10319	0.29251	5.59E-05	2.35E-07	6.09E-07	2.42E-07	5.76E-07	5.7538E-05
519815.59	4258395.49	2931.53107	0.09727	0.37282	0.09998	0.36473	5.57E-05	2.28E-07	7.65E-07	2.35E-07	7.18E-07	5.7669E-05
519749.61	4258551.66	2925.80423	0.09493	0.25181	0.09775	0.24812	5.56E-05	2.23E-07	5.16E-07	2.29E-07	4.88E-07	5.7071E-05
519739.69	4258571.09	2923.81192	0.09371	0.23862	0.0967	0.2353	5.56E-05	2.20E-07	4.89E-07	2.27E-07	4.63E-07	5.6976E-05
519789.32	4258483.61	2918.87987	0.10111	0.31498	0.10452	0.30989	5.55E-05	2.37E-07	6.46E-07	2.45E-07	6.10E-07	5.7221E-05
519819.89	4258619.66	2917.92442	0.09215	0.21379	0.09517	0.21192	5.55E-05	2.16E-07	4.38E-07	2.23E-07	4.17E-07	5.6760E-05
519759.53	4258532.22	2913.08694	0.0961	0.26583	0.09895	0.2619	5.54E-05	2.26E-07	5.45E-07	2.32E-07	5.16E-07	5.6891E-05
519811.26	4258430.29	2910.74808	0.10137	0.36078	0.10442	0.35373	5.53E-05	2.38E-07	7.40E-07	2.45E-07	6.96E-07	5.7247E-05
519728.77	4258590.53	2906.49996	0.0924	0.22609	0.09554	0.2234	5.52E-05	2.17E-07	4.64E-07	2.24E-07	4.40E-07	5.6592E-05
519792.98	4258474.72	2902.46025	0.10121	0.32189	0.10462	0.31655	5.52E-05	2.38E-07	6.60E-07	2.46E-07	6.23E-07	5.6937E-05
519808.26	4258340.54	2900.87464	0.0859	0.35497	0.08791	0.34605	5.51E-05	2.02E-07	7.28E-07	2.06E-07	6.81E-07	5.6958E-05
519801.95	4258307.35	2896.45383	0.07942	0.33963	0.08092	0.33004	5.51E-05	1.86E-07	6.97E-07	1.90E-07	6.50E-07	5.6779E-05
519805.14	4258323.86	2895.43434	0.08253	0.34707	0.08429	0.33786	5.50E-05	1.94E-07	7.12E-07	1.98E-07	6.65E-07	5.6805E-05
519798.69	4258291	2893.4263	0.07646	0.33175	0.0777	0.32187	5.50E-05	1.80E-07	6.80E-07	1.82E-07	6.34E-07	5.6675E-05
519812.52	4258378.69	2891.97589	0.09332	0.36556	0.09581	0.35737	5.50E-05	2.19E-07	7.50E-07	2.25E-07	7.03E-07	5.6868E-05
519769.44	4258512.78	2890.08566	0.09726	0.28092	0.10027	0.27672	5.49E-05	2.28E-07	5.76E-07	2.35E-07	5.45E-07	5.6520E-05
519807.6	4258439.17	2889.96733	0.10136	0.35234	0.10448	0.34565	5.49E-05	2.38E-07	7.23E-07	2.45E-07	6.80E-07	5.6819E-05
519796.64	4258465.83	2886.48232	0.10124	0.32901	0.1046	0.32337	5.49E-05	2.38E-07	6.75E-07	2.46E-07	6.37E-07	5.6661E-05
519803.95	4258448.06	2879.66366	0.10133	0.34425	0.10454	0.33792	5.47E-05	2.38E-07	7.06E-07	2.45E-07	6.65E-07	5.6592E-05
519800.29	4258456.95	2879.60006	0.10131	0.33653	0.1046	0.33055	5.47E-05	2.38E-07	6.90E-07	2.46E-07	6.51E-07	5.6560E-05
519811.97	4258404.31	2875.99916	0.0974	0.36403	0.10017	0.35637	5.47E-05	2.29E-07	7.47E-07	2.35E-07	7.02E-07	5.6579E-05
519719.85	4258609.97	2875.95867	0.09098	0.2144	0.09399	0.21237	5.47E-05	2.14E-07	4.40E-07	2.21E-07	4.18E-07	5.5959E-05
519739.65	4258561.4	2867.32588	0.09236	0.23915	0.09511	0.2357	5.45E-05	2.17E-07	4.90E-07	2.23E-07	4.64E-07	5.5897E-05
519779.36	4258493.35	2864.76398	0.09842	0.29738	0.10163	0.29276	5.45E-05	2.31E-07	6.10E-07	2.39E-07	5.76E-07	5.6110E-05
519809.37	4258362.09	2864.31754	0.08955	0.35764	0.09181	0.34934	5.44E-05	2.10E-07	7.33E-07	2.16E-07	6.88E-07	5.6292E-05
519749.57	4258541.96	2861.71573	0.09352	0.25219	0.0962	0.24848	5.44E-05	2.20E-07	5.17E-07	2.26E-07	4.89E-07	5.5848E-05
519729.73	4258580.83	2857.42892	0.09112	0.22679	0.09407	0.22382	5.43E-05	2.14E-07	4.65E-07	2.21E-07	4.41E-07	5.5655E-05
519759.49	4258522.52	2842.90424	0.09467	0.26611	0.09745	0.26218	5.40E-05	2.22E-07	5.46E-07	2.29E-07	5.16E-07	5.5551E-05
519719.81	4258600.27	2832.99718	0.0898	0.21508	0.09277	0.21278	5.39E-05	2.11E-07	4.44E-07	2.18E-07	4.19E-07	5.5139E-05
519808.34	4258413.13	2830.53639	0.09745	0.35539	0.10028	0.34814	5.38E-05	2.29E-07	7.29E-07	2.35E-07	6.85E-07	5.5682E-05
519808.92	4258387.44	2825.80695	0.09349	0.35732	0.09605	0.34953	5.37E-05	2.19E-07	7.33E-07	2.25E-07	6.88E-07	5.5579E-05
519804.57	4258349.49	2817.66144	0.08617	0.34695	0.0883	0.33858	5.36E-05	2.02E-07	7.12E-07	2.07E-07	6.66E-07	5.5346E-05
519769.4	4258503.09	2816.88657	0.09581	0.2812	0.09878	0.27696	5.35E-05	2.25E-07	5.77E-07	2.32E-07	5.45E-07	5.5123E-05
519795.08	4258299.77	2809.28941	0.07674	0.32457	0.07818	0.31531	5.34E-05	1.80E-07	6.66E-07	1.84E-07	6.21E-07	5.5050E-05
519798.31	4258316.18	2809.10817	0.07968	0.33198	0.08136	0.32203	5.34E-05	1.87E-07	6.81E-07	1.91E-07	6.36E-07	5.5091E-05
519739.61	4258551.7	2808.96413	0.09103	0.23955	0.09358	0.23604	5.34E-05	2.14E-07	4.91E-07	2.20E-07	4.65E-07	5.4783E-05
519801.48	4258332.75	2808.41602	0.08279	0.33915	0.08469	0.33057	5.34E-05	1.94E-07	6.96E-07	1.99E-07	6.51E-07	5.5122E-05
519729.69	4258571.14	2806.97181	0.08986	0.22736	0.09257	0.22419	5.34E-05	2.11E-07	4.66E-07	2.17E-07	4.41E-07	5.4691E-05
519749.53	4258532.26	2796.19653	0.09216	0.25249	0.09473	0.24877	5.32E-05	2.16E-07	5.18E-07	2.22E-07	4.90E-07	5.4597E-05
519805.8	4258370.78	2792.89069	0.08978	0.34987	0.09212	0.34199	5.31E-05	2.11E-07	7.18E-07	2.16E-07	6.73E-07	5.4906E-05
519778.32	4258483.65	2792.8555	0.09694	0.29762	0.10011	0.2929	5.31E-05	2.28E-07	6.10E-07	2.35E-07	5.77E-07	5.4737E-05
519804.71	4258421.94	2792.19074	0.09742	0.34691	0.10029	0.34009	5.31E-05	2.29E-07	7.11E-07	2.35E-07	6.69E-07	5.4920E-05
519719.77	4258590.57	2789.38747	0.08861	0.21575	0.09147	0.21316	5.30E-05	2.08E-07	4.42E-07	2.15E-07	4.20E-07	5.4306E-05
519782.95	4258474.83	2775.18149	0.09708	0.30388	0.10026	0.29895	5.28E-05	2.28E-07	6.23E-07	2.35E-07	5.88E-07	5.4426E-05
519759.44	4258512.82	2772.40317	0.09328	0.26633	0.09601	0.26239	5.27E-05	2.19E-07	5.46E-07	2.25E-07	5.17E-07	5.4205E-05
519805.32	4258396.19	2768.95893	0.09362	0.34922	0.09623	0.34182	5.26E-05	2.20E-07	7.16E-07	2.26E-07	6.73E-07	5.4468E-05
519801.09	4258430.76	2767.76415	0.09741	0.33909	0.10035	0.3326	5.26E-05	2.29E-07	6.95E-07	2.36E-07	6.55E-07	5.4425E-05
519786.58	4258466.02	2759.76419	0.09716	0.31037	0.10033	0.30516	5.25E-05	2.28E-07	6.37E-07	2.36E-07	6.01E-07	5.4159E-05
519729.65	4258561.44	2754.63201	0.08861	0.22779	0.09108	0.2245	5.24E-05	2.08E-07	4.67E-07	2.14E-07	4.42E-07	5.3692E-05
519797.46	4258439.57	2751.9701	0.09735	0.33142	0.10035	0.32528	5.23E-05	2.29E-07	6.80E-07	2.36E-07	6.40E-07	5.4094E-05
519739.57	4258542	2748.93208	0.08973	0.23984	0.09213	0.23631	5.23E-05	2.11E-07	4.92E-07	2.14E-07	4.65E-07	5.3636E-05
519790.2	4258457.2	2748.34177	0.0972	0.31702	0.10032	0.31153	5.22E-05	2.28E-07	6.50E-07	2.36E-07	6.13E-07	5.3968E-05
519769.36	4258493.39	2745.20507	0.09439	0.28143	0.09735	0.27712	5.22E-05	2.22E-07	5.77E-07	2.29E-07	5.46E-07	5.3754E-05
519793.83	4258448.39	2744.8329	0.09725	0.32397	0.10031	0.31816	5.22E-05	2.28E-07	6.64E-07	2.35E-07	6.26E-07	5.3929E-05
519719.73	4258580.87	2743.75184	0.08741	0.21637	0.0901	0.2135	5.22E-05	2.05E-07	4.44E-07	2.12E-07	4.20E-07	5.3435E-05
519800.89	4258358.44	2738.78764	0.08639	0.33904	0.08859	0.33117	5.21E-05	2.03E-07	6.95E-07	2.08E-07	6.52E-07	5.3817E-05
519749.49	4258522.56	2729.76505	0.09083	0.25268	0.09334	0.24896	5.19E-05	2.13E-07	5.18E-07	2.19E-07	4.90E-07	5.3329E-05
519797.82	4258341.63	2728.42498	0.08306	0.33186	0.08507	0.32378	5.19E-05	1.95E-07	6.81E-07	2.00E-07	6.37E-07	5.3575E-05
519802.22	4258379.46	2727.82757	0.08996	0.34239	0.09237	0.33488	5.19E-05	2.11E-07	7.02E-07	2.17E-07	6.59E-07	5.3641E-05
519791.47	4258308.54	2726.87924	0.07699	0.31763	0.07861	0.30897	5.18E-05	1.81E-07	6.51E-07	1.85E-07	6.08E-07	5.3458E-05
519794.68	4258325	2724.28544	0.07991	0.32449	0.08173	0.31617	5.18E-05	1.88E-07	6.66E-07	1.92E-07	6.22E-07	5.3451E-05
519801.72	4258404.94	2721.73848	0.09368	0.34127	0.09635	0.33425	5.17E-05	2.20E-07	7.00E-07	2.26E-07	6.58E-07	5.3539E-05
519759.4	4258503.13	2702.59159	0.09192	0.26656	0.09464	0.26256	5.14E-05	2.16E-07	5.47E-07	2.22E-07	5.17E-07	5.2873E-05
519726.61	4258551.74	2700.05906	0.08737	0.2281	0.08965	0.22476	5.13E-05	2.05E-07	4.68E-07	2.10E-07	4.42E-07	5.2649E-05
519719.69	4258571.18	2696.82986	0.08623	0.21687	0.0887	0.2138	5.13E-05	2.02E-07	4.45E-07	2.08E-07	4.21E-07	5.2538E-05
519739.53	4258532.3	2687.08403	0.08845	0.24006	0.09077	0.23652	5.11E-05	2.08E-07	4.92E-07	2.13E-07	4.66E-07	5.2455E-05
519798.12	4258413.69	2682.66609	0.09369	0.33349	0.09639	0.32684	5.10E-05	2.20E-07	6.84E-07	2.26E-07	6.43E-07	5.2766E-05
519769.32	4258483.69	2676.02857	0.09302	0.28159	0.09595	0.27719	5.09E-05	2.18E-07	5.78E-07	2.25E-07	5.46E-07	5.2433E-05
519798.65	4258388.15	2670.26624	0.09007	0.33493	0.09254	0.32778	5.08E-05	2.11E-07	6.87E-07	2.17E-07	6.45E-07	5.2518E-05
519817.39	4258367.39	2667.46098	0.08657	0.33157	0.08884	0.32413	5.07E-05	2.03E-07	6.80E-07	2.09E-07	6.38E-07	5.2433E-05
519749.44	4258512.87	2662.79248	0.08953	0.25281	0.09201	0.24907	5.06E-05	2.10E-07	5.18E-07	2.16E-07	4.90E-07	5.2050E-05
519772.92	4258474.94	2657.33289	0.09317	0.28722	0.09613	0.28265	5.05E-05	2.19E-07	5.89E-07	2.26E-07	5.56E-07	5.2101E-05
519797.21	4258350.52	2653.82894	0.08329	0.32487	0.08539	0.31723	5.04E-05	1.96E-07	6.66E-07	2.00E-07	6.24E-07	5.2131E-05
519794.52	4258422.44	2652.1601	0.09363	0.32594	0.09637	0.31966	5.04E-05	2.20E-07	6.68E-07	2.26E-07	6.29E-07	5.2157E-05
519719.65	4258561.48	2648.29639	0.08507	0.21721	0.08731	0.21404	5.03E-05	2.00E-07	4.45E-07	2.05E-07	4.21E-07	5.1611E-05
519787.87	4258317.31	2647.03964	0.07723	0.31086	0.07898	0.30276	5.03E-05	1.81E-07	6.38E-07	1.85E-07	5.96E-07	5.1916E-05
519791.05	4258333.83	2645.42798	0.08014	0.31756	0.08206	0.30976	5.03E-05	1.88E-07	6.51E-07	1.93E-07	6.10E-07	5.1927E-05
519729.57	4258542.04	2643.51711	0.08616	0.22831	0.0883	0.22495	5.02E-05	2.02E-07	4.68E-07	2.07E-07	4.43E-07	5.1569E-05
519776.52	4258466.19	2638.99566	0.09323	0.29295	0.09619	0.28815	5.02E-05	2.19E-07	6.01E-07	2.26E-07	5.67E-07	5.1775E-05
519759.36	4258493.43	2633.91542	0.09061	0.26674	0.09332	0.26267	5.01E-05	2.13E-07	5.47E-07	2.19E-07	5.17E-07	5.1562E-05
519790.92	4258431.19	2632.59872	0.09356	0.3188	0.09636	0.31283	5.00E-05	2.20E-07	6.54E-07	2.26E-07	6.16E-07	5.1756E-05
519780.12	4258457.44	2627.22227	0.09334	0.29909	0.09627	0.29402	4.99E-05	2.19E-07	6.13E-07	2.26E-07	5.79E-07	5.1576E-05
519739.49	4258522.61	2624.15856	0.08722	0.2402	0.08948	0.23664	4.99E-05	2.05E-07	4.93E-07	2.10E-07	4.66E-07	5.1254E-05
519787.32	4258439.94	2623.05705	0.0935	0.31202	0.09636	0.30635	4.99E-05	2.20E-07	6.40E-07	2.26E-07	6.03E-07	5.1548E-05
519783.72	4258448.69	2622.52095	0.09345	0.30554	0.09636	0.30016	4.98E-05	2.19E-07	6.27E-07	2.26E-07	5.91E-07	5.1512E-05
519795.07	4258396.84	2621.38852	0.09014	0.32763	0.09266	0.32083	4.98E-05	2.12E-07	6.72E-07	2.18E-07	6.32E-07	5.1561E-05
519793.52	4258376.35	2603.58669	0.08671	0.32449	0.08904	0.31737	4.95E-05	2.04E-07	6.66E-07

519771.42	4258430.06	2399.8724	0.0866	0.28472	0.08911	0.2795	4.56E-05	2.03E-07	5.84E-07	2.09E-07	5.50E-07	4.7164E-05
519764.06	4258447.97	2399.81748	0.08638	0.27328	0.08894	0.26859	4.56E-05	2.03E-07	5.60E-07	2.09E-07	5.29E-07	4.7117E-05
519767.74	4258439.01	2395.58991	0.08648	0.27884	0.08901	0.27388	4.55E-05	2.03E-07	5.72E-07	2.09E-07	5.39E-07	4.7059E-05
519776.53	4258369.13	2382.50395	0.08067	0.292	0.08278	0.28569	4.53E-05	1.89E-07	5.99E-07	1.94E-07	5.62E-07	4.6832E-05
519719.45	4258512.99	2374.25395	0.07957	0.21762	0.08134	0.21436	4.51E-05	1.87E-07	4.46E-07	1.91E-07	4.22E-07	4.6376E-05
519775.89	4258394.95	2372.55906	0.08365	0.29165	0.08593	0.28575	4.51E-05	1.96E-07	5.98E-07	2.02E-07	5.62E-07	4.6657E-05
519739.32	4258483.82	2371.17797	0.08259	0.2403	0.08484	0.23657	4.51E-05	1.94E-07	4.93E-07	1.99E-07	4.66E-07	4.6423E-05
519773.44	4258352.38	2368.06425	0.07786	0.28625	0.07985	0.27979	4.50E-05	1.83E-07	5.87E-07	1.87E-07	5.51E-07	4.6521E-05
519742.98	4258474.93	2350.48331	0.08277	0.24486	0.0851	0.24098	4.47E-05	1.94E-07	5.02E-07	2.00E-07	4.74E-07	4.6049E-05
519729.36	4258493.56	2343.09279	0.08055	0.22837	0.08253	0.22493	4.45E-05	1.89E-07	4.68E-07	1.94E-07	4.43E-07	4.5832E-05
519772.23	4258403.84	2342.16965	0.08365	0.28582	0.08596	0.28018	4.45E-05	1.96E-07	5.86E-07	2.02E-07	5.52E-07	4.6056E-05
519772.9	4258377.96	2333.6632	0.08071	0.28615	0.08285	0.28012	4.44E-05	1.89E-07	5.87E-07	1.95E-07	5.51E-07	4.5881E-05
519746.64	4258466.04	2332.51522	0.08295	0.24945	0.08533	0.24542	4.43E-05	1.95E-07	5.12E-07	2.00E-07	4.83E-07	4.5727E-05
519768.57	4258412.72	2319.96276	0.08361	0.28014	0.08595	0.27474	4.41E-05	1.96E-07	5.75E-07	2.02E-07	5.41E-07	4.5612E-05
519750.29	4258457.16	2317.139	0.08311	0.25415	0.08552	0.24994	4.40E-05	1.95E-07	5.21E-07	2.01E-07	4.92E-07	4.5454E-05
519719.4	4258503.29	2316.07056	0.07855	0.21749	0.08032	0.21422	4.40E-05	1.84E-07	4.46E-07	1.89E-07	4.22E-07	4.5265E-05
519769.83	4258361.15	2309.39887	0.07789	0.2803	0.0799	0.27417	4.39E-05	1.83E-07	5.75E-07	1.88E-07	5.40E-07	4.5383E-05
519753.95	4258448.27	2305.51174	0.08323	0.2589	0.08564	0.25448	4.38E-05	1.95E-07	5.31E-07	2.01E-07	5.01E-07	4.5252E-05
519764.92	4258421.61	2303.79627	0.08351	0.27442	0.08586	0.2693	4.38E-05	1.96E-07	5.63E-07	2.02E-07	5.30E-07	4.5282E-05
519757.6	4258439.38	2297.40502	0.08332	0.26385	0.08572	0.2592	4.37E-05	1.96E-07	5.41E-07	2.01E-07	5.10E-07	4.5118E-05
519761.26	4258430.5	2296.18568	0.0834	0.26897	0.08577	0.26409	4.36E-05	1.96E-07	5.52E-07	2.01E-07	5.20E-07	4.5115E-05
519769.27	4258386.78	2293.43835	0.08074	0.28058	0.08291	0.2748	4.36E-05	1.90E-07	5.75E-07	1.95E-07	5.41E-07	4.5095E-05
519729.32	4258483.86	2283.80703	0.07952	0.22826	0.08152	0.22477	4.34E-05	1.87E-07	4.68E-07	1.91E-07	4.42E-07	4.4700E-05
519732.95	4258475.03	2262.28749	0.07969	0.23247	0.08178	0.22882	4.30E-05	1.87E-07	4.77E-07	1.92E-07	4.50E-07	4.4308E-05
519765.63	4258395.61	2260.89422	0.08074	0.27516	0.08292	0.26962	4.30E-05	1.90E-07	5.64E-07	1.95E-07	5.31E-07	4.4455E-05
519766.22	4258369.92	2260.71855	0.07795	0.27495	0.07998	0.26907	4.30E-05	1.83E-07	5.64E-07	1.88E-07	5.30E-07	4.4437E-05
519719.36	4258493.6	2258.25475	0.07756	0.21731	0.07933	0.21403	4.29E-05	1.82E-07	4.46E-07	1.86E-07	4.21E-07	4.4161E-05
519736.59	4258466.21	2243.60563	0.07987	0.23672	0.08203	0.23292	4.26E-05	1.88E-07	4.85E-07	1.93E-07	4.59E-07	4.3971E-05
519762	4258404.43	2234.38784	0.08068	0.26972	0.08287	0.26444	4.25E-05	1.89E-07	5.53E-07	1.95E-07	5.21E-07	4.3929E-05
519740.22	4258457.38	2227.21575	0.08004	0.24107	0.08226	0.23709	4.23E-05	1.88E-07	4.94E-07	1.93E-07	4.67E-07	4.3677E-05
519762.61	4258378.68	2220.06425	0.07799	0.26988	0.08004	0.26423	4.22E-05	1.83E-07	5.54E-07	1.88E-07	5.20E-07	4.3644E-05
519758.37	4258413.26	2214.66665	0.08057	0.26434	0.08277	0.25933	4.21E-05	1.89E-07	5.42E-07	1.94E-07	5.10E-07	4.3533E-05
519743.85	4258448.56	2214.54633	0.08019	0.24554	0.08244	0.24136	4.21E-05	1.88E-07	5.04E-07	1.94E-07	4.75E-07	4.3455E-05
519747.48	4258439.73	2206.4442	0.08033	0.25001	0.08258	0.24564	4.19E-05	1.89E-07	5.13E-07	1.94E-07	4.84E-07	4.3319E-05
519754.74	4258422.08	2205.28914	0.08051	0.25942	0.08272	0.25462	4.19E-05	1.89E-07	5.32E-07	1.94E-07	5.01E-07	4.3335E-05
519751.11	4258430.91	2203.2458	0.08043	0.25467	0.08267	0.25007	4.19E-05	1.89E-07	5.22E-07	1.94E-07	4.92E-07	4.3277E-05
519719.32	4258483.9	2201.16208	0.0766	0.21711	0.07838	0.2138	4.18E-05	1.80E-07	4.45E-07	1.84E-07	4.21E-07	4.3070E-05
519759.01	4258387.45	2184.93117	0.07798	0.26481	0.08005	0.25941	4.15E-05	1.83E-07	5.43E-07	1.88E-07	5.11E-07	4.2956E-05
519722.93	4258475.13	2180.00946	0.07678	0.2209	0.07865	0.21748	4.14E-05	1.80E-07	4.53E-07	1.85E-07	4.28E-07	4.2684E-05
519726.54	4258466.36	2160.15815	0.07695	0.22484	0.07891	0.22126	4.11E-05	1.81E-07	4.61E-07	1.85E-07	4.36E-07	4.2323E-05
519755.4	4258396.22	2156.92051	0.07794	0.25985	0.08001	0.25468	4.10E-05	1.83E-07	5.33E-07	1.88E-07	5.01E-07	4.2404E-05
519730.15	4258457.6	2143.41654	0.07712	0.22883	0.07915	0.22509	4.07E-05	1.81E-07	4.69E-07	1.86E-07	4.43E-07	4.2022E-05
519751.79	4258404.99	2136.22348	0.07787	0.25498	0.07995	0.25003	4.06E-05	1.83E-07	5.23E-07	1.88E-07	4.92E-07	4.1991E-05
519733.75	4258448.83	2129.43933	0.07729	0.23288	0.07935	0.22896	4.05E-05	1.81E-07	4.78E-07	1.86E-07	4.51E-07	4.1773E-05
519748.18	4258413.76	2122.55666	0.07778	0.25023	0.07986	0.2455	4.03E-05	1.83E-07	5.13E-07	1.87E-07	4.83E-07	4.1713E-05
519737.36	4258440.06	2119.6705	0.07744	0.23708	0.07953	0.23296	4.03E-05	1.82E-07	4.86E-07	1.87E-07	4.59E-07	4.1604E-05
519744.58	4258422.52	2115.61456	0.07769	0.24571	0.07977	0.24119	4.02E-05	1.82E-07	5.04E-07	1.87E-07	4.75E-07	4.1562E-05
519740.97	4258431.29	2114.83994	0.07757	0.24131	0.07966	0.237	4.02E-05	1.82E-07	4.95E-07	1.87E-07	4.67E-07	4.1530E-05
CONCUNIT ug/	m^3											
DEPUNIT g/m^	2											

City of Santa Rosa—Stonebridge Subdivision Project

Project Site

Construction Annual Total PM2.5 Emissions (PM2.5 Total)

Mitigated Concentrations

Annual Average Onsite Total PM2.5 Emission Rate (grams/m2/sec):	4.59E-08
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 1 (grams/sec):	4.09E-05
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 2 (grams/sec):	3.58E-05
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 3 (grams/sec):	4.09E-05
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 4 (grams/sec):	3.43E-05

Mitigated PM2.5 Total Concentrations

Maximum DPM (ug/m3)	UTM X	UTM Y
3.0463E-02	520285.95	4258692.95

X	Y	Onsite PROJECT SITE Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 2 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 3 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 4 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 5 Unit Emissions VALUES AVERAGED AVERAGE CONC	Onsite PROJECT SITE Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 2 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 3 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 4 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 5 Annual PM2.5 Total w/Actual Emissions (ug/m3)	**Total DPM (ug/m3)**
520285.95	4258692.95	662010.4627	0.70541	0.47948	0.67924	0.51632	3.04E-02	2.89E-05	1.72E-05	2.78E-05	1.77E-05	3.0463E-02
520276.05	4258692.97	661730.7007	0.7558	0.50671	0.7262	0.54656	3.04E-02	3.09E-05	1.81E-05	2.97E-05	1.88E-05	3.0457E-02
520266.15	4258692.98	661237.0252	0.81334	0.53678	0.77956	0.57991	3.03E-02	3.33E-05	1.92E-05	3.19E-05	1.99E-05	3.0441E-02
520295.85	4258692.94	660914.3292	0.66038	0.45448	0.63708	0.4886	3.03E-02	2.70E-05	1.63E-05	2.61E-05	1.68E-05	3.0408E-02
520256.24	4258693	658495.184	0.87811	0.56962	0.83922	0.61631	3.02E-02	3.60E-05	2.04E-05	3.44E-05	2.12E-05	3.0322E-02
520305.75	4258692.92	656765.0941	0.61928	0.43121	0.59835	0.46286	3.01E-02	2.54E-05	1.54E-05	2.45E-05	1.59E-05	3.0212E-02
520246.34	4258693.02	654632.1663	0.95238	0.60592	0.90721	0.65636	3.00E-02	3.90E-05	2.17E-05	3.71E-05	2.25E-05	3.0154E-02
520315.65	4258692.9	650173.4768	0.58193	0.40963	0.56299	0.43904	2.98E-02	2.38E-05	1.47E-05	2.31E-05	1.51E-05	2.9905E-02
520236.44	4258693.03	647446.2042	1.03669	0.64581	0.9838	0.70018	2.97E-02	4.24E-05	2.31E-05	4.03E-05	2.40E-05	2.9833E-02
520325.55	4258692.89	642068.381	0.54847	0.38984	0.53118	0.41722	2.95E-02	2.25E-05	1.39E-05	2.17E-05	1.43E-05	2.9529E-02
520226.54	4258693.05	639146.7769	1.1371	0.69147	1.07491	0.74946	2.93E-02	4.66E-05	2.47E-05	4.40E-05	2.57E-05	2.9464E-02
520285.96	4258702.95	630959.6637	0.71756	0.46523	0.69024	0.50115	2.89E-02	2.94E-05	1.66E-05	2.83E-05	1.72E-05	2.9039E-02
520276.06	4258702.97	630957.2012	0.7694	0.49114	0.73836	0.52988	2.89E-02	3.15E-05	1.76E-05	3.02E-05	1.82E-05	2.9045E-02
520335.45	4258692.87	630938.432	0.51801	0.37153	0.50211	0.39707	2.89E-02	2.12E-05	1.33E-05	2.06E-05	1.36E-05	2.9015E-02
520266.16	4258702.98	630036.8694	0.82794	0.51957	0.79239	0.56129	2.89E-02	3.39E-05	1.86E-05	3.24E-05	1.93E-05	2.9009E-02
520295.86	4258702.94	629016.2959	0.6711	0.44135	0.64686	0.47468	2.89E-02	2.75E-05	1.58E-05	2.65E-05	1.63E-05	2.8944E-02
520256.26	4258703	627344.6224	0.89421	0.55071	0.85319	0.59556	2.88E-02	3.66E-05	1.97E-05	3.49E-05	2.04E-05	2.8893E-02
520216.64	4258693.07	626935.9391	1.2529	0.74154	1.17902	0.80314	2.88E-02	5.13E-05	2.65E-05	4.83E-05	2.76E-05	2.8916E-02
520305.77	4258702.92	624933.273	0.62914	0.41927	0.60745	0.45023	2.87E-02	2.58E-05	1.50E-05	2.49E-05	1.55E-05	2.8752E-02
520246.36	4258703.02	622952.3412	0.96996	0.58507	0.92233	0.63309	2.86E-02	3.97E-05	2.09E-05	3.78E-05	2.17E-05	2.8700E-02
520315.67	4258702.9	618385.3726	0.59112	0.39882	0.57155	0.42761	2.84E-02	2.42E-05	1.43E-05	2.34E-05	1.47E-05	2.8447E-02
520236.46	4258703.03	616231.652	1.05663	0.62291	1.00088	0.67408	2.83E-02	4.33E-05	2.23E-05	4.10E-05	2.31E-05	2.8401E-02
520345.35	4258692.85	615114.5187	0.48991	0.35441	0.47519	0.37827	2.82E-02	2.01E-05	1.27E-05	1.95E-05	1.30E-05	2.8285E-02
520206.74	4258693.08	611044.6617	1.39025	0.79675	1.30102	0.86205	2.80E-02	5.69E-05	2.85E-05	5.33E-05	2.96E-05	2.8202E-02
520325.57	4258702.89	610001.1955	0.5568	0.37996	0.53899	0.40674	2.80E-02	2.28E-05	1.36E-05	2.21E-05	1.40E-05	2.8058E-02
520226.56	4258703.05	607387.9481	1.15843	0.6654	1.09288	0.71947	2.79E-02	4.74E-05	2.38E-05	4.47E-05	2.47E-05	2.8006E-02
520335.47	4258702.87	599219.393	0.52565	0.36253	0.50934	0.3875	2.75E-02	2.15E-05	1.30E-05	2.09E-05	1.33E-05	2.7560E-02
520216.66	4258703.07	595412.1692	1.27692	0.71237	1.19948	0.76912	2.73E-02	5.23E-05	2.55E-05	4.91E-05	2.64E-05	2.7470E-02
520355.25	4258692.84	594099.7587	0.46433	0.33858	0.45059	0.36092	2.72E-02	1.90E-05	1.21E-05	1.84E-05	1.24E-05	2.7318E-02
520196.84	4258693.1	589909.9555	1.55429	0.85851	1.44609	0.92722	2.71E-02	6.36E-05	3.07E-05	5.92E-05	3.18E-05	2.7249E-02
520345.37	4258702.85	583195.2902	0.49683	0.34617	0.48175	0.36946	2.68E-02	2.03E-05	1.24E-05	1.97E-05	1.27E-05	2.6821E-02
520206.76	4258703.08	579527.2475	1.4173	0.76346	1.32431	0.82309	2.66E-02	5.80E-05	2.73E-05	5.42E-05	2.83E-05	2.6755E-02
520157.12	4258646.05	572750.5551	2.41391	1.62136	2.20438	1.77451	2.63E-02	9.88E-05	5.80E-05	9.03E-05	6.09E-05	2.6585E-02
520365.15	4258692.82	564093.0537	0.44038	0.32363	0.42748	0.34458	2.59E-02	1.80E-05	1.16E-05	1.75E-05	1.18E-05	2.5939E-02
520355.27	4258702.84	562808.3214	0.4705	0.33099	0.45646	0.35275	2.58E-02	1.93E-05	1.18E-05	1.87E-05	1.21E-05	2.5860E-02
520186.94	4258693.12	561775.8411	1.75507	0.92751	1.62237	0.99969	2.58E-02	7.19E-05	3.32E-05	6.64E-05	3.43E-05	2.5979E-02
520157.12	4258655.32	561759.9611	2.48739	1.52577	2.26179	1.65906	2.58E-02	1.02E-04	5.46E-05	9.26E-05	5.70E-05	2.6078E-02
520196.86	4258703.1	558250.8976	1.58571	0.81999	1.47332	0.88255	2.56E-02	6.49E-05	2.93E-05	6.03E-05	3.03E-05	2.5796E-02
520147.12	4258646.05	551368.5226	2.90149	1.83714	2.61828	2.00195	2.53E-02	1.19E-04	6.57E-05	1.07E-04	6.87E-05	2.5656E-02
520147.12	4258655.32	539010.2038	2.98985	1.71437	2.6866	1.85484	2.47E-02	1.22E-04	6.13E-05	1.10E-04	6.37E-05	2.5086E-02
520365.17	4258702.82	534151.4274	0.44628	0.31685	0.4331	0.33721	2.45E-02	1.83E-05	1.17E-05	1.13E-05	1.17E-05	2.4565E-02
520157.12	4258664.6	531634.1877	2.55475	1.43574	2.31624	1.55154	2.44E-02	1.05E-04	5.14E-05	9.48E-05	5.33E-05	2.4694E-02
520186.96	4258703.12	529735.306	1.79066	0.88188	1.65298	0.94795	2.43E-02	7.33E-05	3.15E-05	6.77E-05	3.25E-05	2.4508E-02
520177.04	4258693.13	525404.7531	2.00342	1.00358	1.83797	1.07998	2.41E-02	8.20E-05	3.59E-05	7.53E-05	3.71E-05	2.4335E-02
520137.12	4258646.05	525153.9319	3.57866	2.09768	3.18247	2.27288	2.41E-02	1.47E-04	7.50E-05	1.30E-04	7.80E-05	2.4523E-02
520375.05	4258692.8	523276.3796	0.41865	0.30989	0.40644	0.32958	2.40E-02	1.71E-05	1.11E-05	1.66E-05	1.13E-05	2.4063E-02
520137.12	4258655.32	512025.5326	3.6851	1.93506	3.26165	2.08215	2.35E-02	1.51E-04	6.92E-05	1.34E-04	7.15E-05	2.3916E-02
520276.1	4258722.97	505674.2331	0.79373	0.46183	0.75976	0.49782	2.32E-02	3.25E-05	1.65E-05	3.11E-05	1.71E-05	2.3297E-02
520286	4258722.95	505256.639	0.73952	0.43808	0.70971	0.47189	2.32E-02	3.03E-05	1.57E-05	2.91E-05	1.62E-05	2.3271E-02
520266.2	4258722.98	504669.1133	0.85464	0.48778	0.8158	0.52592	2.32E-02	3.50E-05	1.74E-05	3.34E-05	1.81E-05	2.3257E-02
520295.9	4258722.94	503301.2402	0.69121	0.41641	0.66492	0.44806	2.31E-02	2.83E-05	1.49E-05	2.72E-05	1.54E-05	2.3176E-02
520147.12	4258664.6	502477.166	3.06715	1.599	2.74954	1.72011	2.31E-02	1.26E-04	5.72E-05	1.13E-04	5.91E-05	2.3407E-02
520256.29	4258723	502068.1672	0.92375	0.51606	0.87902	0.55632	2.30E-02	3.78E-05	1.85E-05	3.60E-05	1.91E-05	2.3145E-02
520305.8	4258722.92	499711.4967	0.64774	0.39649	0.6244	0.42605	2.29E-02	2.65E-05	1.42E-05	2.56E-05	1.46E-05	2.3007E-02
520246.39	4258723.02	497859.4119	1.00257	0.54684	0.95073	0.58917	2.28E-02	4.10E-05	1.96E-05	3.89E-05	2.02E-05	2.2961E-02
520375.07	4258702.8	495316.0666	0.42383	0.30359	0.41136	0.32267	2.27E-02	1.74E-05	1.09E-05	1.68E-05	1.11E-05	2.2780E-02
520315.7	4258722.9	493976.8157	0.66825	0.37773	0.58724	0.40533	2.27E-02	2.49E-05	1.35E-05	2.40E-05	1.39E-05	2.2739E-02
520157.12	4258673.87	493534.2778	2.61469	1.34986	2.36669	1.45215	2.26E-02	1.07E-04	4.83E-05	9.69E-05	4.99E-05	2.2944E-02
520127.12	4258646.05	492895.6744	4.55641	2.41345	3.98368	2.59237	2.26E-02	1.87E-04	8.63E-05	1.63E-04	8.90E-05	2.3138E-02
520236.49	4258723.03	491916.287	1.09317	0.58035	1.03274	0.62471	2.26E-02	4.48E-05	2.08E-05	4.23E-05	2.14E-05	2.2697E-02
520177.05	4258703.13	491915.5288	2.04404	0.94969	1.87246	1.02006	2.26E-02	8.37E-05	3.40E-05	7.67E-05	3.50E-05	2.2797E-02
520325.6	4258722.89	485086.5142	0.57235	0.36042	0.55332	0.38619	2.23E-02	2.34E-05	1.29E-05	2.27E-05	1.33E-05	2.2327E-02
520226.59	4258723.05	483881.6868	1.19836	0.61692	1.12752	0.66328	2.22E-02	4.91E-05	2.21E-05	4.62E-05	2.28E-05	2.2340E-02
520127.12	4258655.32	480354.9216	4.68376	2.19799	4.07203	2.34136	2.20E-02	1.92E-04	7.86E-05	1.67E-04	8.04E-05	2.2555E-02
520167.14	4258693.15	479970.9033	2.31789	1.08767	2.10702	1.16908	2.20E-02	9.49E-05	3.89E-05	8.63E-05	4.01E-05	2.2280E-02
520335.5	4258722.87	473811.8752	0.53964	0.34439	0.52227	0.36844	2.17E-02	2.21E-05	1.23E-05	2.14E-05	1.26E-05	2.1806E-02
520137.12	4258664.6	473513.4401	3.77541	1.78691	3.33266	1.91154	2.17E-02	1.55E-04	6.39E-05	1.36E-04	6.56E-05	2.2144E-02
520216.69	4258723.07	473418.3444	1.32151	0.65686	1.23821	0.70529	2.17E-02	5.41E-05	2.35E-05	5.07E-05	2.42E-05	2.1872E-02
520384.96	4258692.79	467816.7544	0.39843	0.29701	0.38682	0.31554	2.15E-02	1.63E-05	1.06E-05	1.58E-05	1.08E-05	2.1516E-02
520157.12	4258683.15	461931.6033	2.67282	1.26628	2.40997	1.36004	2.12E-02	1.09E-04	4.53E-05	9.87E-05	4.67E-05	2.1493E-02
520206.79	4258723.08	459749.9231	1.46709	0.69966	1.36788	0.75072	2.11E-02	6.01E-05	2.50E-05	5.60E-05	2.58E-05	2.1259E-02
520345.4	4258722.85	459676.8086	0.50982	0.32951	0.49383	0.35197	2.11E-02	2.09E-05	1.18E-05	2.02E-05	1.21E-05	2.1154E-02
520147.12	4258673.87	458448.1957	3.13449	1.49094	2.80621	1.59781	2.10E-02	1.28E-04	5.33E-05	1.15E-04	5.49E-05	2.1384E-02
520117.12	4258646.05	453337.2361	6.02456	2.80275	5.18464	2.95182	2.08E-02	2.47E-04	1.00E-04	2.12E-04	1.01E-04	2.1459E-02
520384.97	4258702.79	444201.6386	0.40308	0.2912	0.39121	0.30911	2.04E-02	1.65E-05	1.04E-05	1.60E-05	1.06E-05	2.0433E-02
520286.01	4258732.95	443470.6967	0.74861	0.42495	0.71744	0.45747	2.03E-02	3.07E-05	1.52E-05	2.94E-05	1.57E-05	2.0437E-02
520276.11	4258732.97	443321.6464	0.80306	0.44739	0.76758	0.48176	2.03E-02	3.29E-05	1.60E-05	3.14E-05	1.65E-05	2.0436E-02
520295.91	4258732.94	443194.7901	0.70049	0.40463	0.67307	0.43525	2.03E-02	2.87E-05	1.45E-05	2.76E-05	1.49E-05	2.0419E-02
520117.12	4258655.32	442679.2421	6.17735	2.51752	5.27774	2.61964	2.03E-02	2.53E-04	9.00E-05	2.16E-04	8.99E-05	2.0958E-02
520196.89	4258723.1	441936.3227	1.64127	0.74603	1.52191	0.80023	2.03E-02	6.72E-05	2.67E-05	6.23E-05	2.75E-05	2.0459E-02
520266.21	4258732.98	441922.7961	0.8643	0.47181	0.82376	0.50799	2.03E-02	3.54E-05	1.69E-05	3.37E-05	1.74E-05	2.0378E-02
520355.3	4258722.84	441578.9503	0.48248	0.31564	0.46764	0.33663	2.03E-02	1.98E-05	1.13E-05	1.91E-05	1.16E-05	2.0321E-02
520127.12	4258664.6	441242.8549	4.78308	2.01227	4.15275	2.12313	2.02E-02	1.96E-04	7.19E-05	1.70E-04	7.29E-05	2.0754E-02
520256.31	4258733	440473.4092	0.93504	0.49867	0.88843	0.53664	2.02E-02	3.83E-05	1.78E-05	3.64E-05	1.84E-05	2.0319E-02
520305.82	4258732.92	439595.7048	0.65618	0.3856	0.63191	0.41433	2.02E-02	2.69E-05	1.38E-05	2.59E-05	1.42E-05	2.0249E-02
520246.41	4258733.02	436140.439	1.01423	0.52751	0.96051	0.56717	2.00E-02	4.15E-05	1.89E-05	3.93E-05	1.95E-05	2.0128E-02
520236.51	4258733.03	430262.5705	1.10508	0.55874	1.04291	0.60012	1.97E-02	4.52E-05	2.00E-05	4.27E-05	2.06E-05	1.9868E-02
520315.72	4258732.9	430094.4625	0.61423	0.36682	0.59234	0.39379	1.97E-02	2.51E-05	1.31E-05	2.43E-05	1.35E-05	1.9808E-02
520226.61	4258733.05	425077.4163	1.2144	0.59309	1.14168	0.63637	1.95E-02	4.97E-05	2.12E-05	4.67E-05	2.18E-05	1.9641E-02
520137.12	4258673.87	425012.9196	3.84051	1.65525	3.3984	1.75984	1.95E-02	1.57E-04	5.92E-05	1.39E-04	6.04E-05	1.9915E-02
520325.62	4258732.89	422924.2617	0.57832	0.35049	0.55854	0.37573	1.94E-02	2.37E-05	1.25E-05	2.29E-05	1.29E-05	1.9475E-02
520147.12	4258683.15	422825.3067	3.20665	1.38833	2.8509	1.48633	1.94E-02	1.31E-04	4.97E-05	1.17E-04	5.10E-05	1.9747E-02
520160.07	4258700.23	421059.4477	2.63003	1.10318	2.36922	1.18257	1.93E-02	1.08E-04	3.95E-05	9.70E-05	4.06E-05	1.9602E-02
520365.2	4258722.82	419786.6962	0.45753	0.30285	0.44368	0.32246	1.93E-02	1.87E-05	1.08E-05	1.82E-05	1.11E-05	1.9318E-02
520186.99	4258723.12	418859.9409	1.85237	0.76609	1.70623	0.85397	1.92E-02	7.58E-05	2.85E-05	6.99E-05	2.93E-05	1.9420E-02
520216.71	4258733.07	416895.7376	1.34162	0.6299	1.25594	0.67537	1.91E-02	5.49E-05	2.25E-05	5.14E-05	2.32E-05	1.9278E-02
520335.52	4258732.87	412508.9499	0.5451	0.33513	0.5271	0.35875	1.89E-02	2.23E-05	1.20E-05	2.16E-05	1.23E-05	1.8993E-02
520117.12	4258664.6	405962.6887	6.2821	2.2804	5.36663	2.34026	1.86E-02	2.57E-04	8.16E-05	2.20E-04	8.03E-05	1.9264E-02
520107.12	4258646.05	405286.502	8.29137	3.27618	7.12267	3.30505	1.86E-02	3.39E-04	1.17E-04	2.92E-04	1.13E-04	1.9456E-02
520206.81	4258733.08	403304.9696	1.48556	0.66809	1.38397	0.71652	1.85E-02	6.08E-05	2.39E-05	5.67E-05	2.46E-05	1.8669E-02
520394.86	4258692.77	402093.9677	0.37942	0.28482	0.36831	0.30228	1.84E-02	1.55E-05	1.02E-05	1.51E-05	1.04E-05	1.8498E-02
520345.42	4258732.85	388873.3084	0.51451	0.31073	0.498	0.34282	1.82E-02	2.11E-05	1.15E-05	2.04E-05	1.18E-05	1.8364E-02
520107.12	4258655.32	396695.3815	8.46977	2.89289	7.213	2.87536	1.82E-02	3.47E-04	1.03E-04	2.95E-04	9.87E-05	1.9044E-02
520276.13	4258742.97	393455.3145	0.81425	0.43442	0.77748	0.46701	1.81E-02	3.33E-05	1.55E-05	3.18E-05	1.60E-05	1.8148E-02
520286.03	4258742.95	393424.8123	0.75824	0.41304	0.72651	0.44405	1.80E-02	3.11E-05	1.48E-05	2.97E-05	1.52E-05	1.8140E-02
520295.93	4258742.94	392026.7775	0.70941	0.3935	0.68093	0.42289	1.80E-02	2.90E-05	1.41E-05	2.79E-05	1.45E-05	1.8071E-02
520127.12	4258673.87	392001.7998	4.82933	1.85072	4.22761	1.93337	1.80E-02	1.98E-04	6.62E-05	1.73E-04	6.64E-05	1.8488E-02
520266.23	4258742.98	391799.814	0.87593	0.45746	0.83403	0.49154	1.80E-02	3.59E-05	1.64E-05	3.41E-05	1.69E-05	1.8078E-02
520375.11	4258722.8	390522.566	0.43414	0.29067	0.42107	0.30901	1.79E-02	1.78E-05	1.04E-05	1.72E-05	1.06E-05	1.7972E-02
520256.33	4258743	390273.9548	0.94759	0.48275	0.89956	0.51832	1.79E-02	3.88E-05	1.73E-05	3.68E-05	1.78E-05	1.8016E-02
520177.09	4258723.13	390188.0308	2.11218	0.85123	1.93009	0.91256	1.79E-02	8.65E-05	3.04E-05	7.90E-05	3.13E-05	1.8128E-02
520305.83	4258742.92	388393.5673	0.66434	0.37519	0.6391	0.40297	1.78E-02	2.72E-05	1.34E-05	2.62E-05	1.38E-05	1.7899E-02
520137.12	4258683.15	388111.7385	3.93849	1.53176	3.44433	1.62481	1.78E-02	1.61E-04	5.48E-05	1.41E-04	5.58E-05	1.8219E-02
520246.43	4258743.02	386888.3886	1.02862	0.50985	0.9734	0.54694	1.77E-02	4.21E-05	1.82E-05	3.99E-05	1.88E-05	1.7869E-02
520196.91	4258733.1	386868.8806	1.65823	0.70949	1.53631	0.76131	1.77E-02	6.79E-05	2.54E-05	6.29E-05	2.61E-05	1.7931E-02
520394.87	4258702.77	383280.803	0.38378	0.27957	0.37241	0.29641	1.76E-02	1.57E-05	1.00E-05	1.52E-05	1.02E-05	1.7635E-02
520355.32	4258732.84	382917.3022	0.48694	0.30754	0.47163	0.32819	1.76E-02	1.99E-05	1.10E-05	1.93E-05	1.13E-05	1.7629E-02
520236.53	4258743.03	382285.2374	1.12206	0.539	1.05818	0.57776	1.75E-02	4.59E-05	1.93E-05	4.33E-05	1.98E-05	1.7667E-02
520315.73	4258742.9	379516.2051	0.6214	0.357	0.59862	0.38323	1.74E-02	2.54E-05	1.28E-05	2.45E-05	1.32E-05	1.7487E-02
520226.63	4258743.05	377159.099	1.23258	0.57048	1.15802	0.61121	1.73E-02	5.05E-05	2.04E-05	4.74E-05	2.10E-05	1.7443E-02
520325.63	4258742.89	372767.896	0.58501	0.34135	0.56444	0.36601	1.71E-02	2.40E-05	1.22E-05	2.31E-05	1.26E-05	1.7174E-02
520216.72	4258743.07	369290.478	1.36068	0.60388	1.2729	0.64707	1.69E-02	5.57E-05	2.16E-05	5.21E-05	2.22E-05	1.7094E-02
520187.01	4258733.12	367383.6721	1.86951	0.75494	1.7206	0.81017	1.69E-02	7.65E-05	2.70E-05	7.04E-05	2.78E-05	1.7057E-02
520107.12	4258664.6	364666.488	8.58552	2.58252	7.30115	2.52874	1.67E-02	3.52E-04	9.24E-05	2.99E-04	8.68E-05	1.7560E-02
520365.22	4258732.82	364491.551	0.46206	0.29545	0.44773	0.31478	1.67E-02	1.89E-05	1.06E-05	1.83E-05	1.08E-05	1.6781E-02
520335.53	4258742.87	363255.4372	0.55134	0.32663	0.53264	0.34978	1.67E-02	2.26E-05	1.17E-05	2.18E-05	1.20E-05	1.6734E-02
520117.12	4258673.87	358682.5779	6.27831	2.08017	5.44927	2.10424	1.65E-02	2.57E-04	7.44E-05	2.23E-04	7.22E-05	1.7082E-02
520206.82	4258743.08	357457.2179	1.50677	0.63879	1.40259	0.68501	1.64E-02	6.17E-05	2.28E-05	5.74E-05	2.35E-05	1.6565E-02
520142.99	4258697.3	357304.0426	3.5693	1.30295	3.14066	1.38187	1.64E-02	1.46E-04	4.66E-05	1.29E-04	4.74E-05	1.6761E-02
520127.12	4258683.15	356214.8165	4.97931	1.70276	4.27691	1.76881	1.63E-02	2.04E-04	6.09E-05	1.75E-04	6.08E-05	1.6843E-02
520385.01	4258722.79	354960.1158	0.41245	0.27924	0.40003	0.2964	1.63E-02	1.69E-05	9.99E-06	1.64E-05	1.02E-05	1.6338E-02
520345.44	4258742.85	351174.4886	0.52041	0.31286	0.50328	0.33457	1.61E-02	2.13E-05	1.12E-05	2.06E-05	1.15E-05	1.6176E-02
520276.15	4258752.97	350226.7969	0.82382	0.42162	0.78592	0.45238	1.61E-02	3.37E-05	1.51E-05	3.22E-05	1.55E-05	1.6164E-02
520286.05	4258752.95	349840.2368	0.76761	0.40127	0.73414	0.43073	1.60E-02	3.14E-05	1.44E-05	3.01E-05	1.48E-05	1.6141E-02
520266.25	4258752.98	349714.4292	0.8874	0.44361	0.84432	0.47567	1.60E-02	3.63E-05	1.59E-05	3.46E-05	1.63E-05	1.6147E-02
520295.95	4258752.94	348899.204	0.71784	0.38263	0.68827	0.41072	1.60E-02	2.94E-05	1.37E-05	2.82E-05	1.41E-05	1.6092E-02
520256.34	4258753	348163.1831	0.95986	0.46728	0.91064	0.50068	1.60E-02	3.93E-05	1.67E-05	3.73E-05	1.72E-05	1.6084E-02
520097.12	4258646.05	347956.3173	11.65187	3.77005	10.63734	3.54717	1.60E-02	4.77E-04	1.35E-04	4.36E-04	1.22E-04	1.7133E-02
520305.85	4258752.92	345341.9954	0.67218	0.36519	0.64593	0.39188	1.58E-02	2.75E-05	1.31E-05	2.64E-05	1.35E-05	1.5924E-02
520246.44	4258753.02	345010.8408	1.04171	0.49242	0.98527	0.52729	1.58E-02	4.27E-05	1.76E-05	4.03E-05	1.81E-05	1.5947E-02
520177.1	4258733.13	344232.1051	2

520177.12	4258743.13	307433.964	2.15529	0.76532	1.96619	0.81915	1.41E-02	8.82E-05	2.74E-05	8.05E-05	2.81E-05	1.4329E-02
520343.86	4258473.14	307369.3703	0.36323	0.49071	0.36119	0.53516	1.41E-02	1.49E-05	1.76E-05	1.48E-05	1.84E-05	1.4167E-02
520196.94	4258753.1	306508.537	1.7	0.64589	1.57248	0.69295	1.41E-02	6.96E-05	2.31E-05	6.44E-05	2.38E-05	1.4243E-02
520285.12	4258472.96	305923.0394	0.46418	0.72976	0.46237	0.80594	1.40E-02	1.90E-05	2.61E-05	1.89E-05	2.77E-05	1.4127E-02
520236.56	4258763.03	305242.9034	1.14743	0.49943	1.08134	0.53454	1.40E-02	4.70E-05	1.79E-05	4.43E-05	1.84E-05	1.4131E-02
520353.64	4258473.18	304906.1484	0.34956	0.46374	0.34766	0.50442	1.40E-02	1.43E-05	1.66E-05	1.42E-05	1.73E-05	1.4051E-02
520120.79	4258692	304057.1432	5.94848	1.6873	5.04001	1.70436	1.39E-02	2.44E-04	6.04E-05	2.06E-04	5.85E-05	1.4518E-02
520275.33	4258472.93	303845.8375	0.48512	0.7875	0.48306	0.87185	1.39E-02	1.99E-05	2.82E-05	1.98E-05	2.99E-05	1.4038E-02
520315.77	4258762.9	302711.3836	0.6364	0.33922	0.61179	0.3636	1.39E-02	2.61E-05	1.21E-05	2.50E-05	1.25E-05	1.3964E-02
520265.55	4258472.9	301431.2026	0.50759	0.85278	0.50514	0.94681	1.38E-02	2.08E-05	3.05E-05	2.07E-05	3.25E-05	1.3934E-02
520226.66	4258763.05	301251.3709	1.2613	0.52631	1.18384	0.5637	1.38E-02	5.16E-05	1.88E-05	4.85E-05	1.94E-05	1.3959E-02
520411.9	4258689.91	301035.6197	0.34861	0.26683	0.33828	0.28283	1.38E-02	1.43E-05	9.54E-06	1.39E-05	9.71E-06	1.3858E-02
520363.43	4258473.21	300053.3675	0.33664	0.43866	0.3348	0.47603	1.38E-02	1.38E-05	1.57E-05	1.37E-05	1.63E-05	1.3825E-02
520375.14	4258742.8	298699.69	0.4422	0.277	0.42831	0.29484	1.37E-02	1.81E-05	9.91E-06	1.75E-05	1.01E-05	1.3759E-02
520355.35	4258752.84	298671.9701	0.49749	0.293	0.48105	0.313	1.37E-02	2.04E-05	1.05E-05	1.97E-05	1.07E-05	1.3764E-02
520255.76	4258472.87	298393.792	0.53165	0.93636	0.52869	1.03215	1.37E-02	2.18E-05	3.31E-05	2.16E-05	3.54E-05	1.3802E-02
520325.67	4258762.89	296118.0267	0.59816	0.32449	0.57593	0.34765	1.36E-02	2.45E-05	1.16E-05	2.36E-05	1.19E-05	1.3657E-02
520216.76	4258763.07	295750.1791	1.39413	0.55483	1.30253	0.59474	1.36E-02	5.71E-05	1.98E-05	5.33E-05	2.04E-05	1.3719E-02
520245.97	4258472.84	294852.677	0.55746	1.01014	0.55415	1.11019	1.35E-02	2.28E-05	3.61E-05	2.27E-05	3.88E-05	1.3648E-02
520373.22	4258473.24	294034.7965	0.32441	0.41565	0.32263	0.45004	1.35E-02	1.33E-05	1.49E-05	1.32E-05	1.55E-05	1.3547E-02
520149.5	4258725.84	293506.6039	3.28357	1.02766	2.90592	1.08172	1.35E-02	1.34E-04	3.68E-05	1.19E-04	3.71E-05	1.3793E-02
520324.31	4258463.08	292757.9722	0.38593	0.5623	0.38497	0.61518	1.34E-02	1.58E-05	2.01E-05	1.58E-05	2.11E-05	1.3504E-02
520314.52	4258463.05	292651.8782	0.40143	0.60011	0.40051	0.65781	1.34E-02	1.64E-05	2.15E-05	1.64E-05	2.26E-05	1.3503E-02
520187.04	4258753.12	292520.9451	1.91434	0.68489	1.75888	0.73404	1.34E-02	7.84E-05	2.45E-05	7.20E-05	2.52E-05	1.3620E-02
520334.1	4258463.11	292254.7825	0.37132	0.52792	0.37021	0.57656	1.34E-02	1.52E-05	1.89E-05	1.52E-05	1.98E-05	1.3477E-02
520304.73	4258463.02	292020.5697	0.41787	0.64196	0.41688	0.70515	1.34E-02	1.71E-05	2.30E-05	1.71E-05	2.42E-05	1.3479E-02
520343.89	4258463.14	291048.6843	0.35748	0.4969	0.35625	0.54166	1.34E-02	1.46E-05	1.78E-05	1.46E-05	1.86E-05	1.3418E-02
520294.94	4258462.99	290883.374	0.43532	0.68855	0.43413	0.75807	1.33E-02	1.78E-05	2.46E-05	1.78E-05	2.60E-05	1.3431E-02
520107.12	4258683.15	290861.2075	8.83842	2.11028	7.43733	2.01516	1.33E-02	3.62E-04	7.51E-05	3.05E-04	6.92E-05	1.4155E-02
520236.18	4258472.81	290657.2599	0.58527	1.1071	0.58213	1.24422	1.33E-02	2.40E-05	3.96E-05	2.38E-05	4.27E-05	1.3465E-02
520408.97	4258706.94	290326.3214	0.36	0.26211	0.34908	0.27735	1.33E-02	1.47E-05	9.38E-06	1.43E-05	9.52E-06	1.3368E-02
520383.01	4258473.27	289318.9019	0.31291	0.39405	0.31103	0.42588	1.33E-02	1.28E-05	1.41E-05	1.27E-05	1.46E-05	1.3328E-02
520285.15	4258462.96	289266.1503	0.45389	0.74076	0.45236	0.81766	1.33E-02	1.86E-05	2.65E-05	1.85E-05	2.81E-05	1.3363E-02
520353.67	4258463.18	288080.5409	0.34433	0.46911	0.34309	0.51022	1.32E-02	1.41E-05	1.68E-05	1.40E-05	1.75E-05	1.3279E-02
520124.46	4258700.84	287791.9041	5.46281	1.5151	4.65242	1.55607	1.32E-02	2.24E-04	5.42E-05	1.90E-04	5.27E-05	1.3724E-02
520335.57	4258762.87	287744.711	0.56307	0.31067	0.54287	0.33264	1.32E-02	2.31E-05	1.11E-05	2.22E-05	1.14E-05	1.3269E-02
520275.37	4258462.93	287212.9599	0.47366	0.79909	0.47168	0.88478	1.32E-02	1.94E-05	2.86E-05	1.93E-05	3.04E-05	1.3274E-02
520167.22	4258743.15	286402.3925	2.48069	0.81779	2.2428	0.87084	1.31E-02	1.02E-04	2.93E-05	9.18E-05	2.99E-05	1.3392E-02
520206.86	4258763.08	286348.8114	1.54078	0.58452	1.43237	0.62704	1.31E-02	6.31E-05	2.09E-05	5.86E-05	2.15E-05	1.3301E-02
520226.39	4258472.78	286111.8106	0.61498	1.21923	0.61294	1.37703	1.31E-02	2.52E-05	4.36E-05	2.51E-05	4.73E-05	1.3267E-02
520265.58	4258462.9	284685.1689	0.49476	0.86524	0.49241	0.96126	1.31E-02	2.03E-05	3.09E-05	2.02E-05	3.30E-05	1.3165E-02
520365.25	4258752.82	284157.1373	0.47148	0.28169	0.45617	0.30045	1.30E-02	1.93E-05	1.01E-05	1.87E-05	1.03E-05	1.3095E-02
520276.18	4258772.97	283031.5062	0.84253	0.39716	0.80285	0.42461	1.30E-02	3.45E-05	1.42E-05	3.29E-05	1.46E-05	1.3081E-02
520087.12	4258646.05	283013.5226	12.31595	4.06718	18.58445	3.57844	1.30E-02	5.04E-04	1.45E-04	7.61E-04	1.23E-04	1.4518E-02
520266.28	4258772.98	282825.0237	0.90763	0.41643	0.8628	0.44508	1.30E-02	3.72E-05	1.49E-05	3.53E-05	1.53E-05	1.3078E-02
520363.46	4258463.21	282783.7456	0.33183	0.44359	0.3306	0.48138	1.30E-02	1.36E-05	1.59E-05	1.35E-05	1.65E-05	1.3033E-02
520286.08	4258772.95	282097.4704	0.78437	0.37894	0.74909	0.40532	1.29E-02	3.21E-05	1.36E-05	3.07E-05	1.39E-05	1.3032E-02
520255.79	4258462.87	281707.685	0.51729	0.91988	0.51479	1.04838	1.29E-02	2.12E-05	3.36E-05	2.11E-05	3.60E-05	1.3036E-02
520295.98	4258772.94	281385.0976	0.73397	0.36229	0.70254	0.38765	1.29E-02	3.01E-05	1.30E-05	2.88E-05	1.33E-05	1.2994E-02
520256.38	4258773	281346.1068	0.98064	0.43661	0.92975	0.46668	1.29E-02	4.02E-05	1.56E-05	3.81E-05	1.60E-05	1.3017E-02
520216.6	4258472.75	280661.851	0.64685	1.15315	0.64745	1.53474	1.29E-02	2.65E-05	4.84E-05	2.65E-05	5.27E-05	1.3030E-02
520097.12	4258673.87	279503.5641	11.5555	2.53205	10.81178	2.32385	1.28E-02	4.73E-04	9.06E-05	4.43E-04	7.98E-05	1.3909E-02
520246.48	4258773.02	279058.8694	1.06435	0.45804	1.00612	0.48985	1.28E-02	4.36E-05	1.64E-05	4.12E-05	1.68E-05	1.2921E-02
520087.12	4258636.77	278780.6896	12.06758	4.90768	18.62103	4.29346	1.28E-02	4.94E-04	1.76E-04	7.62E-04	1.47E-04	1.4369E-02
520392.8	4258473.3	278682.2932	0.30146	0.37277	0.29946	0.40235	1.28E-02	1.23E-05	1.33E-05	1.23E-05	1.38E-05	1.2837E-02
520345.47	4258762.85	278260.8142	0.53149	0.29799	0.51299	0.31876	1.28E-02	2.18E-05	1.07E-05	2.10E-05	1.09E-05	1.2830E-02
520246	4258462.84	278246.16	0.54133	1.02533	0.53925	1.14862	1.28E-02	2.22E-05	3.67E-05	2.21E-05	3.94E-05	1.2886E-02
520305.88	4258772.92	278160.5985	0.68702	0.34635	0.65894	0.37069	1.28E-02	2.81E-05	1.24E-05	2.70E-05	1.27E-05	1.2842E-02
520373.25	4258463.24	277646.9467	0.32002	0.42011	0.31875	0.45492	1.27E-02	1.31E-05	1.50E-05	1.31E-05	1.56E-05	1.2795E-02
520158.72	4258739.64	277462.8778	2.82169	0.88491	2.52898	0.9364	1.27E-02	1.16E-04	3.17E-05	1.04E-04	3.21E-05	1.3012E-02
520394.92	4258732.77	277030.9388	0.39498	0.26204	0.38276	0.2779	1.27E-02	1.62E-05	9.37E-06	1.57E-05	9.54E-06	1.2760E-02
520087.12	4258655.32	276702.3044	12.56411	3.45081	18.52842	3.04927	1.27E-02	5.14E-04	1.23E-04	7.59E-04	1.05E-04	1.4196E-02
520177.14	4258753.13	276595.2914	2.17715	0.72846	1.98474	0.77824	1.27E-02	8.91E-05	2.61E-05	8.13E-05	2.67E-05	1.2913E-02
520196.96	4258763.1	275708.4444	1.71663	0.61707	1.58692	0.66189	1.26E-02	7.03E-05	2.21E-05	6.50E-05	2.27E-05	1.2829E-02
520236.58	4258773.03	275511.2312	1.15945	0.48051	1.09237	0.51441	1.26E-02	4.75E-05	1.72E-05	4.47E-05	1.77E-05	1.2767E-02
520383.04	4258463.27	275426.5107	0.30893	0.39812	0.30743	0.43041	1.26E-02	1.26E-05	1.42E-05	1.26E-05	1.48E-05	1.2690E-02
520110.64	4258601.64	274769.7589	7.983	1.86847	6.69281	1.80934	1.26E-02	3.27E-04	6.68E-05	2.74E-04	6.21E-05	1.3336E-02
520206.81	4258472.72	274695.927	0.68054	1.51192	0.68543	1.72239	1.26E-02	2.79E-05	5.41E-05	2.81E-05	5.91E-05	1.2772E-02
520236.21	4258462.81	274259.0701	0.56692	1.1244	0.56619	1.26495	1.26E-02	2.32E-05	4.02E-05	2.32E-05	4.34E-05	1.2713E-02
520385.04	4258742.79	274102.0419	0.41932	0.26616	0.40616	0.28287	1.26E-02	1.72E-05	9.52E-06	1.66E-05	9.71E-06	1.2628E-02
520315.78	4258772.9	273086.3503	0.64383	0.33096	0.61843	0.35429	1.25E-02	2.64E-05	1.18E-05	2.53E-05	1.22E-05	1.2604E-02
520226.68	4258773.05	272257.0151	1.27559	0.50576	1.19673	0.54191	1.25E-02	5.22E-05	1.81E-05	4.90E-05	1.86E-05	1.2629E-02
520226.42	4258462.78	269761.4276	0.5941	1.23954	0.59577	1.40085	1.24E-02	2.43E-05	4.43E-05	2.44E-05	4.81E-05	1.2517E-02
520197.03	4258472.69	268126.0373	0.71572	1.70184	0.72647	1.94878	1.23E-02	2.93E-05	6.09E-05	2.97E-05	6.69E-05	1.2488E-02
520216.77	4258773.07	267204.2347	1.40914	0.53231	1.3158	0.57082	1.23E-02	5.77E-05	1.90E-05	5.39E-05	1.96E-05	1.2409E-02
520150.22	4258736.13	266751.1142	3.24743	0.96146	2.88296	1.00781	1.22E-02	1.33E-04	3.44E-05	1.18E-04	3.46E-05	1.2558E-02
520355.37	4258762.84	266747.0139	0.50227	0.28605	0.48521	0.30565	1.22E-02	2.06E-05	1.02E-05	1.99E-05	1.05E-05	1.2299E-02
520325.68	4258772.89	266699.392	0.6047	0.31669	0.58166	0.33898	1.22E-02	2.48E-05	1.13E-05	2.38E-05	1.16E-05	1.2307E-02
520343.92	4258453.14	266266.6656	0.35164	0.50334	0.35122	0.54809	1.22E-02	1.44E-05	1.80E-05	1.44E-05	1.88E-05	1.2281E-02
520402.59	4258473.33	266153.5945	0.2911	0.35503	0.28913	0.38244	1.22E-02	1.19E-05	1.27E-05	1.18E-05	1.31E-05	1.2260E-02
520375.16	4258752.8	265915.2296	0.44653	0.27068	0.43217	0.28827	1.22E-02	1.83E-05	9.68E-06	1.77E-05	9.90E-06	1.2255E-02
520392.83	4258463.3	265844.8651	0.29798	0.37658	0.29628	0.40661	1.22E-02	1.22E-05	1.35E-05	1.21E-05	1.40E-05	1.2248E-02
520216.63	4258462.75	264630.2358	0.62262	1.37072	0.62815	1.56159	1.21E-02	2.55E-05	5.27E-05	2.57E-05	5.36E-05	1.2195E-02
520187.06	4258763.12	263888.1242	1.93265	0.65366	1.77452	0.69983	1.21E-02	7.91E-05	2.34E-05	7.27E-05	2.40E-05	1.2306E-02
520353.71	4258453.18	262862.6688	0.33899	0.47476	0.33853	0.51597	1.21E-02	1.39E-05	1.70E-05	1.39E-05	1.77E-05	1.2122E-02
520114.16	4258700.13	261162.3457	7.24378	1.67766	6.08165	1.63611	1.20E-02	2.97E-04	6.00E-05	2.49E-04	5.62E-05	1.2643E-02
520187.24	4258472.66	260427.5878	0.75188	1.93561	0.76986	2.22636	1.19E-02	3.08E-05	6.92E-05	3.15E-05	7.64E-05	1.2156E-02
520335.58	4258772.87	259144.4665	0.56913	0.30342	0.54817	0.32464	1.19E-02	2.33E-05	1.09E-05	2.24E-05	1.11E-05	1.1957E-02
520206.87	4258773.08	259059.9688	1.55684	0.56011	1.44638	0.60083	1.19E-02	6.37E-05	2.00E-05	5.92E-05	2.06E-05	1.2048E-02
520363.49	4258453.21	258977.3742	0.32698	0.44852	0.32645	0.48664	1.19E-02	1.34E-05	1.60E-05	1.34E-05	1.67E-05	1.1941E-02
520206.85	4258462.72	258866.4044	0.65224	1.53977	0.6628	1.75299	1.19E-02	2.67E-05	5.51E-05	2.71E-05	6.02E-05	1.2045E-02
520087.12	4258664.6	258363.6032	12.74651	2.981	18.45586	2.64286	1.19E-02	5.22E-04	1.07E-04	7.56E-04	9.07E-05	1.3328E-02
520276.2	4258762.97	256676.296	0.85189	0.38539	0.81148	0.41149	1.18E-02	3.49E-05	1.38E-05	3.32E-05	1.41E-05	1.1872E-02
520141.73	4258732.63	256623.9795	3.83162	1.05025	3.35374	1.08578	1.18E-02	1.57E-04	3.76E-05	1.37E-04	3.73E-05	1.2142E-02
520266.3	4258772.98	256470.7656	0.91741	0.40324	0.87187	0.43061	1.18E-02	3.76E-05	1.44E-05	3.57E-05	1.48E-05	1.1869E-02
520286.1	4258782.95	255805.192	0.79317	0.36835	0.75714	0.39339	1.17E-02	3.25E-05	1.32E-05	3.10E-05	1.35E-05	1.1826E-02
520402.62	4258463.33	255598.8879	0.2879	0.35852	0.28618	0.38632	1.17E-02	1.18E-05	1.28E-05	1.17E-05	1.33E-05	1.1776E-02
520256.39	4258783	255383.1981	0.99169	0.42204	0.94	0.45097	1.17E-02	4.06E-05	1.51E-05	3.85E-05	1.55E-05	1.1826E-02
520296	4258782.94	254762.9701	0.74166	0.35254	0.70949	0.37661	1.17E-02	3.04E-05	1.26E-05	2.90E-05	1.29E-05	1.1773E-02
520373.28	4258453.24	254623.1671	0.31558	0.42463	0.31492	0.45975	1.17E-02	1.29E-05	1.52E-05	1.29E-05	1.58E-05	1.1738E-02
520246.49	4258783.02	253428.8549	1.07633	0.44189	1.01717	0.47267	1.16E-02	4.41E-05	1.58E-05	4.16E-05	1.62E-05	1.1745E-02
520097.12	4258683.15	253416.173	12.10931	2.26049	10.86067	2.07137	1.16E-02	4.96E-04	8.09E-05	4.45E-04	7.11E-05	1.2719E-02
520365.27	4258762.82	253285.2267	0.47519	0.27482	0.45935	0.29328	1.16E-02	1.95E-05	9.83E-06	1.88E-05	1.01E-05	1.1678E-02
520158.97	4258749.74	252598.3106	2.83966	0.83794	2.54412	0.88279	1.16E-02	1.16E-04	3.00E-05	1.04E-04	3.03E-05	1.1869E-02
520197.06	4258462.69	252291.6997	0.68262	1.73545	0.69883	1.98428	1.16E-02	2.79E-05	6.21E-05	2.86E-05	6.81E-05	1.1761E-02
520168.27	4258756.76	252093.1011	2.47285	0.75827	2.23646	0.8046	1.16E-02	1.01E-04	2.71E-05	9.16E-05	2.76E-05	1.1813E-02
520421.9	4258689.97	251744.1056	0.33274	0.25629	0.32273	0.27138	1.15E-02	1.36E-05	9.17E-06	1.32E-05	9.32E-06	1.1595E-02
520305.9	4258782.92	251702.0506	0.69403	0.3374	0.6652	0.36056	1.15E-02	2.84E-05	1.21E-05	2.72E-05	1.24E-05	1.1628E-02
520177.45	4258472.63	251409.8641	0.78793	2.12526	0.81346	2.56992	1.15E-02	3.23E-05	7.96E-05	3.33E-05	8.82E-05	1.1768E-02
520412.38	4258473.36	250663.1889	0.2812	0.33854	0.27923	0.36398	1.15E-02	1.15E-05	1.21E-05	1.14E-05	1.25E-05	1.1547E-02
520177.15	4258763.13	250529.6518	2.19726	0.69461	2.0017	0.74042	1.15E-02	9.00E-05	2.48E-05	8.20E-05	2.54E-05	1.1716E-02
520345.49	4258772.85	250493.5783	0.53688	0.2911	0.51768	0.31126	1.15E-02	2.20E-05	1.04E-05	2.12E-05	1.07E-05	1.1556E-02
520236.59	4258783.03	250375.0473	1.17258	0.46282	1.10432	0.4957	1.15E-02	4.80E-05	1.66E-05	4.52E-05	1.70E-05	1.1614E-02
520196.97	4258773.1	249691.0664	1.73257	0.59042	1.60063	0.63293	1.15E-02	7.09E-05	2.11E-05	6.55E-05	2.17E-05	1.1635E-02
520394.94	4258742.77	248131.206	0.39856	0.25623	0.38599	0.27189	1.14E-02	1.63E-05	9.16E-06	1.58E-05	9.33E-06	1.1434E-02
520226.69	4258783.05	247488.3872	1.2898	0.48642	1.20948	0.52142	1.14E-02	5.28E-05	1.74E-05	4.95E-05	1.79E-05	1.1492E-02
520315.8	4258782.9	247326.6836	0.6505	0.33281	0.62439	0.34507	1.13E-02	2.66E-05	1.15E-05	2.56E-05	1.18E-05	1.1422E-02
520416.03	4258714.03	245546.9875	0.35091	0.2519	0.34006	0.26619	1.13E-02	1.44E-05	9.01E-06	1.39E-05	9.14E-06	1.1312E-02
520409	4258726.94	245313.165	0.36732	0.25203	0.35587	0.2666	1.13E-02	1.50E-05	9.01E-06	1.46E-05	9.15E-06	1.1302E-02
520385.06	4258752.79	245159.6552	0.42313	0.26012	0.40956	0.27664	1.12E-02	1.73E-05	9.30E-06	1.68E-05	9.50E-06	1.1300E-02
520187.27	4258462.66	244788.8737	0.71282	1.97383	0.73481	2.26647	1.12E-02	2.92E-05	7.06E-05	3.01E-05	7.78E-05	1.1438E-02
520412.41	4258463.36	242978.2668	0.27828	0.34184	0.27654	0.36759	1.11E-02	1.14E-05	1.22E-05	1.13E-05	1.26E-05	1.1195E-02
520216.79	4258783.07	242787.2272	1.42308	0.51119	1.32805	0.54828	1.11E-02	5.83E-05	1.83E-05	5.44E-05	1.88E-05	1.1288E-02
520325.7	4258782.89	241453.8261	0.61084	0.30912	0.58709	0.33048	1.11E-02	2.50E-05	1.11E-05	2.40E-05	1.13E-05	1.1149E-02
520324.37	4258443.08	241223.2356	0.37195	0.57686	0.37164	0.62995	1.11E-02	1.52E-05	2.06E-05	1.52E-05	2.16E-05	1.1140E-02
520167.66	4258472.59	241140.7983	0.82249	2.58344	0.85457	3.00397	1.11E-02	3.37E-05	9.24E-05	3.50E-05	1.03E-04	1.1327E-02
520314.58	4258443.05	241009.1733	0.38607	0.61572	0.38544	0.67405	1.11E-02	1.58E-05	2.20E-05	1.58E-05	2.31E-05	1.1134E-02
520334.16	4258443.11	240904.8753	0.35857	0.54146	0.35845	0.59009	1.11E-02	1.47E-05	1.94E-05	1.47E-05	2.03E-05	1.1121E-02
520355.39	4258772.84	240272.4157	0.5072	0.27954	0.48948	0.29865	1.10E-02	2.08E-05	1.00E-05	2.00E-05	1.03E-05	1.1084E-02
520343.95	4258443.14	240008.861	0.34581	0.50959	0.34585	0.55425	1.10E-02	1.42E-05	1.82E-05	1.42E-05	1.90E-05	1.1077E-02
520187.07	4258473.12	239424.0909	1.94813	0.62463	1.78773	0.66779	1.10E-02	7.98E-05	2.23E-05	7.32E-05	2.29E-05	1.1183E-02
520295.01	4258442.99	239152.214	0.41672	0.70592	0.41535	0.77776	1.10E-02	1.71E-05	2.52E-05	1.70E-05	2.67E-05	1.1058E-02
520375.17	4258762.8	238062.0925	0.45019	0.26429	0.43534	0.28165	1.09E-02	1.84E-05	9.45E-06	1.78E-05	9.67E-06	1.0977E-02
520285.22	4258442.96	237571.2974	0.43336	0.75904	0.43185	0.83938	1.09E-02	1.77E-05	2.71E-05	1.77E-05	2.88E-05	1.0991E-02
520087.12	4258673.87	236446.3864	12.85658	2.6129	18.37158	2.32301	1.08E-02	5.26E-04	9.35E-05	7.52E-04	7.98E-05	1.2300E-02
520353.74	4258443.18	236268.6616	0.33357	0.4807	0.3338	0.5217	1.08E-02	1.37E-05	1.72E-05	1.37E-05	1.79E-05	1.0902E-02
520142.45	4258742.92	236238.9639	3.81046	0.98383	3.33999	1.01135	1.08E-02	1.56E-04	3.52E-05	1.37E-04	3.47E-05	1.1201E-02
520177.48	4258462.63	236179.818	0.74183	2.26684	0.76908	2.61455	1.08E-02	3.04E-05	8.11E-05	3.15E-05	8.98E-05	1.1068E-02
520206.89	4258783.08	235761.4634	1.5723	0.53741	1.45975	0.57633	1.08E-02	6.44E-05	1.92E-05	5.98E-05	1.98E-05	1.0979E-02
520275.43	4258442.93	235583.6796	0.45095	0.81889	0.44968	0.90908	1.08E-02	1.85E-05	2.93E-05	1.84E-05	3.12E-05	1.0906E-02
520335.6	4258782.87	234839.5472	0.57503	0.29643	0.55335	0.31687	1.08E-02	2.35E-05	1.06E-05	2.27E-05	1.09E-05	1.0842E-02
520103.97	4258699.66	233834.4791	9.93242	1.8214	8.39205	1.70369	1.07E-02	4.07E-04	6.51E-05	3.44E-04	5.85E-05	1.1602E-02
520266.31	4258792.98	233803.0397	0.92743	0.39044	0.88119	0.41683	1.07E-02	3.80E-05	1.40E-05	3.61E-05	1.43E-05	1.0829E-02
520363.53	4258443.21	233771.3798	0.32207	0.45387	0.32219	0.49182	1.07E-02	1.32E-05	1.62E-05	1.32E-05	1.69E-05	1.0784E-02
520276.21	4258792.97	233694.8542	0.86063	0.37373	0.81961	0.39873	1.07E-02	3.52E-05	1.34E-05	3.36E-05	1.37E-05	1.0817E-02
520265.64	4258442.9	233179.6908	0.46951	0.88695	0.46905	0.98842	1.07E-02	1.92E-05	3.17E-05	1.92E-05	3.39E-05	1.0802E-02
520286.11	4258792.95	232953.0811	0.80159	0.35789	0.76493	0.38178	1.07E-02	3.28E-05	1.28E-05	3.13E-05	1.31E-05	1.0777E-02
520403.39	4258739.27	232943.7265	0.38078	0.25008	0.36874	0.26497	1.07E-02	1.56E-05	8.95E-06	1.51E-05	9.10E-06	1.0736E-02

520148.08	4258472.53	214158.7477	0.87805	3.61933	0.92759	4.29585	9.83E-03	3.60E-05	1.29E-04	3.80E-05	1.47E-04	1.0176E-02
520431.9	4258690.02	214080.6618	0.31853	0.24697	0.30884	0.26121	9.82E-03	1.30E-05	8.83E-06	1.26E-05	8.97E-06	9.8651E-03
520402.68	4258443.33	214077.0715	0.28121	0.36553	0.2803	0.39405	9.82E-03	1.15E-05	1.31E-05	1.15E-05	1.35E-05	9.8710E-03
520266.33	4258802.98	213740.791	0.93603	0.3777	0.88919	0.40336	9.81E-03	3.83E-05	1.35E-05	3.64E-05	1.38E-05	9.9081E-03
520431.95	4258473.42	213557.8253	0.26262	0.30869	0.26057	0.33076	9.80E-03	1.08E-05	1.10E-05	1.07E-05	1.14E-05	9.8414E-03
520276.23	4258802.97	213446.4269	0.86832	0.36209	0.82678	0.38626	9.79E-03	3.56E-05	1.30E-05	3.39E-05	1.33E-05	9.8883E-03
520285.25	4258432.96	213441.1795	0.42328	0.7668	0.42252	0.84945	9.79E-03	1.73E-05	2.74E-05	1.73E-05	2.92E-05	9.8835E-03
520335.62	4258792.87	213154.6843	0.57976	0.28938	0.55742	0.30897	9.78E-03	2.37E-05	1.04E-05	2.28E-05	1.06E-05	9.8466E-03
520353.77	4258433.18	212840.5526	0.32816	0.4865	0.32868	0.5273	9.76E-03	1.34E-05	1.74E-05	1.35E-05	1.81E-05	9.8271E-03
520256.43	4258803	212709.6083	1.01055	0.39372	0.95747	0.42108	9.76E-03	4.14E-05	1.41E-05	3.92E-05	1.45E-05	9.8720E-03
520286.13	4258802.95	212483.1326	0.80825	0.34726	0.77113	0.37019	9.75E-03	3.31E-05	1.24E-05	3.16E-05	1.27E-05	9.8381E-03
520296.03	4258802.94	211715.2387	0.75628	0.33358	0.72299	0.35547	9.71E-03	3.10E-05	1.19E-05	2.96E-05	1.22E-05	9.7978E-03
520275.46	4258432.93	211392.3176	0.43976	0.82738	0.43986	0.92014	9.70E-03	1.80E-05	2.96E-05	1.80E-05	3.16E-05	9.7955E-03
520246.53	4258803.02	211116.0914	1.09511	0.4107	1.03444	0.43987	9.69E-03	4.48E-05	1.47E-05	4.24E-05	1.51E-05	9.8026E-03
520158.16	4258769.39	210946.5181	2.9192	0.76407	2.61193	0.79631	9.68E-03	1.20E-04	2.73E-05	1.07E-04	2.73E-05	9.9590E-03
520363.56	4258433.21	210907.3024	0.31713	0.45922	0.31765	0.49697	9.68E-03	1.30E-05	1.64E-05	1.30E-05	1.71E-05	9.7355E-03
520114.24	4258724.43	210876.955	7.37375	1.3774	6.20592	1.31766	9.67E-03	3.02E-04	4.93E-05	2.54E-04	4.52E-05	1.0325E-02
520431.98	4258463.42	210554.9306	0.26019	0.31163	0.25838	0.33387	9.66E-03	1.07E-05	1.11E-05	1.06E-05	1.15E-05	9.7037E-03
520265.67	4258432.9	209118.5107	0.45712	0.8971	0.4587	1.00122	9.59E-03	1.87E-05	3.21E-05	1.88E-05	3.44E-05	9.6979E-03
520236.63	4258803.03	209053.606	1.1939	0.42946	1.12368	0.46047	9.59E-03	4.89E-05	1.54E-05	4.60E-05	1.58E-05	9.7170E-03
520177.19	4258783.13	209003.0659	2.23167	0.6347	2.03036	0.67263	9.59E-03	9.14E-05	2.27E-05	8.31E-05	2.31E-05	9.8090E-03
520305.93	4258802.92	208960.6583	0.70728	0.32002	0.67727	0.34104	9.59E-03	2.90E-05	1.14E-05	2.77E-05	1.17E-05	9.6666E-03
520423.08	4258721.11	208727.7454	0.34177	0.24207	0.33093	0.25552	9.58E-03	1.40E-05	8.66E-06	1.35E-05	8.77E-06	9.6210E-03
520206.91	4258442.72	208708.8656	0.59705	1.59306	0.61427	1.81164	9.58E-03	2.44E-05	5.70E-05	2.52E-05	6.22E-05	9.7439E-03
520197.01	4258793.1	208512.9188	1.76477	0.54344	1.62783	0.58119	9.57E-03	7.23E-05	1.94E-05	6.67E-05	2.00E-05	9.7445E-03
520373.35	4258433.24	207710.5792	0.36555	0.41428	0.30705	0.46927	9.53E-03	1.26E-05	1.55E-05	1.26E-05	1.61E-05	9.5861E-03
520365.3	4258782.82	207489.7631	0.48412	0.26279	0.46705	0.28042	9.52E-03	1.98E-05	9.40E-06	1.91E-05	9.63E-06	9.5772E-03
520226.73	4258803.05	206564.5714	1.31089	0.45032	1.22841	0.48309	9.48E-03	5.37E-05	1.61E-05	5.03E-05	1.66E-05	9.6134E-03
520255.88	4258418.87	206349.1248	0.47518	0.97679	0.4788	1.09379	9.47E-03	1.95E-05	3.49E-05	1.96E-05	3.76E-05	9.5785E-03
520345.52	4258792.85	206066.8463	0.54641	0.27788	0.52589	0.29664	9.45E-03	2.24E-05	9.94E-06	2.15E-05	1.02E-05	9.5180E-03
520093.83	4258699.33	205898.5203	13.79158	1.91017	12.67456	1.72941	9.45E-03	5.65E-04	6.83E-05	5.19E-04	5.94E-05	1.0658E-02
520412.47	4258443.36	204975.2615	0.2721	0.3481	0.27103	0.37458	9.40E-03	1.11E-05	1.25E-05	1.11E-05	1.29E-05	9.4514E-03
520149.06	4258765.63	204575.5117	3.3925	0.82859	3.00749	0.85155	9.39E-03	1.39E-04	2.96E-05	1.23E-04	2.92E-05	9.7064E-03
520315.83	4258802.9	203792.3235	0.66007	0.30613	0.63274	0.32637	9.35E-03	2.70E-05	1.09E-05	2.59E-05	1.12E-05	9.4247E-03
520216.82	4258803.07	203255.2472	1.44832	0.47207	1.35013	0.50718	9.32E-03	5.93E-05	1.69E-05	5.53E-05	1.74E-05	9.4739E-03
520394.97	4258762.77	203214.8005	0.40563	0.24514	0.39227	0.26045	9.32E-03	1.66E-05	8.77E-06	1.61E-05	8.94E-06	9.3735E-03
520246.09	4258432.84	203127.0727	0.49386	1.06829	0.50005	1.20013	9.32E-03	2.02E-05	3.82E-05	2.05E-05	4.12E-05	9.4392E-03
520197.12	4258442.69	202538.6745	0.61856	1.79595	0.63886	2.05024	9.29E-03	2.53E-05	6.42E-05	2.62E-05	7.04E-05	9.4782E-03
520148.11	4258462.53	200932.1458	0.80831	3.67784	0.8592	4.35665	9.22E-03	3.31E-05	1.32E-04	3.52E-05	1.50E-04	9.5678E-03
520187.11	4258793.12	200787.8364	1.98234	0.57412	1.81606	0.61108	9.21E-03	8.12E-05	2.05E-05	7.44E-05	2.10E-05	9.4088E-03
520385.09	4258772.79	200559.1487	0.43046	0.24868	0.41595	0.26476	9.20E-03	1.76E-05	8.89E-06	1.70E-05	9.09E-06	9.2539E-03
520392.92	4258433.3	200428.8146	0.287	0.3886	0.28681	0.41934	9.20E-03	1.18E-05	1.39E-05	1.17E-05	1.44E-05	9.2471E-03
520236.31	4258432.81	199462.4937	0.51298	1.17466	0.52217	1.32345	9.15E-03	2.10E-05	4.20E-05	2.14E-05	4.54E-05	9.2808E-03
520325.73	4258802.89	199273.7708	0.61991	0.29381	0.59498	0.31131	9.14E-03	2.54E-05	1.05E-05	2.44E-05	1.08E-05	9.2133E-03
520167.29	4258783.15	198863.2449	2.5697	0.67594	2.31665	0.70867	9.12E-03	1.05E-04	2.42E-05	9.49E-05	2.43E-05	9.3720E-03
520139.95	4258761.88	198290.2813	4.05938	0.9026	3.54853	0.91046	9.10E-03	1.66E-04	3.23E-05	1.45E-04	3.13E-05	9.4722E-03
520355.42	4258792.84	198013.5413	0.51587	0.26707	0.4969	0.28501	9.08E-03	2.11E-05	9.55E-06	2.03E-05	9.78E-06	9.1453E-03
520206.92	4258803.08	197749.7573	1.59789	0.49629	1.4819	0.53155	9.07E-03	6.54E-05	1.78E-05	6.07E-05	1.82E-05	9.2345E-03
520138.29	4258472.5	197255.1718	0.8949	4.40995	0.96146	5.28675	9.05E-03	3.66E-05	1.58E-04	3.94E-05	1.81E-04	9.4649E-03
520324.43	4258423.08	196417.2477	0.35814	0.58896	0.35734	0.6438	9.01E-03	1.47E-05	2.11E-05	1.46E-05	2.21E-05	9.0837E-03
520334.22	4258423.11	196290.9018	0.3459	0.5531	0.34533	0.60277	9.01E-03	1.42E-05	1.98E-05	1.41E-05	2.07E-05	9.0742E-03
520266.35	4258812.98	196118.2727	0.94412	0.36537	0.8967	0.39043	9.00E-03	3.87E-05	1.31E-05	3.67E-05	1.34E-05	9.0994E-03
520314.65	4258423.05	196098.8963	0.37096	0.62869	0.3701	0.68944	9.00E-03	1.52E-05	2.25E-05	1.52E-05	2.37E-05	9.0731E-03
520276.25	4258812.97	196025.8747	0.87684	0.35098	0.83472	0.3745	8.99E-03	3.59E-05	1.26E-05	3.42E-05	1.29E-05	9.0888E-03
520344.01	4258423.14	195698.1136	0.33417	0.5211	0.334	0.56615	8.98E-03	1.37E-05	1.86E-05	1.37E-05	1.94E-05	9.0437E-03
520375.21	4258782.8	195572.2458	0.45779	0.25264	0.44185	0.26935	8.97E-03	1.87E-05	9.04E-06	1.81E-05	9.25E-06	9.0276E-03
520187.33	4258442.66	195557.629	0.63883	2.04026	0.66172	2.33996	8.97E-03	2.62E-05	7.30E-05	2.71E-05	8.03E-05	9.1784E-03
520256.44	4258813	195392.1453	1.01941	0.38046	0.96562	0.40718	8.96E-03	4.17E-05	1.36E-05	3.95E-05	1.40E-05	9.0731E-03
520226.52	4258432.78	195301.4102	0.53233	1.29889	0.54473	1.46757	8.96E-03	2.18E-05	4.65E-05	2.23E-05	5.04E-05	9.1010E-03
520286.15	4258812.95	195224.8841	0.81657	0.33721	0.7789	0.35942	8.96E-03	3.34E-05	1.21E-05	3.19E-05	1.23E-05	9.0463E-03
520158.43	4258779.5	194741.8635	0.39539	0.72792	0.6243	0.75473	8.93E-03	1.20E-04	2.60E-05	1.07E-04	2.59E-05	9.2140E-03
520422.26	4258443.39	194401.6065	0.2634	0.33214	0.26221	0.3567	8.92E-03	1.08E-05	1.19E-05	1.07E-05	1.22E-05	8.9644E-03
520295.07	4258422.99	194161.071	0.39858	0.72086	0.39837	0.7965	8.91E-03	1.63E-05	2.58E-05	1.63E-05	2.73E-05	8.9935E-03
520296.05	4258812.94	194111.846	0.76305	0.32425	0.72932	0.34532	8.91E-03	3.12E-05	1.16E-05	2.99E-05	1.19E-05	8.9900E-03
520246.54	4258813.02	194066.3475	1.10517	0.39663	1.04359	0.42505	8.90E-03	4.53E-05	1.42E-05	4.27E-05	1.46E-05	9.0201E-03
520335.64	4258802.87	193919.9266	0.58328	0.28217	0.56043	0.30093	8.90E-03	2.39E-05	1.01E-05	2.29E-05	1.03E-05	8.9639E-03
520402.71	4258433.33	193422.1501	0.27762	0.36874	0.27722	0.39741	8.87E-03	1.14E-05	1.32E-05	1.14E-05	1.36E-05	8.9234E-03
520353.8	4258423.18	192785.843	0.32278	0.49193	0.32321	0.53277	8.84E-03	1.32E-05	1.76E-05	1.32E-05	1.83E-05	8.9070E-03
520285.28	4258422.96	192546.662	0.41332	0.77507	0.41402	0.85974	8.83E-03	1.69E-05	2.77E-05	1.70E-05	2.95E-05	8.9248E-03
520441.74	4258473.45	192412.8908	0.25395	0.29529	0.25184	0.31591	8.83E-03	1.04E-05	1.06E-05	1.03E-05	1.08E-05	8.8697E-03
520236.64	4258813.03	192406.3744	1.20554	0.41461	1.13412	0.4447	8.83E-03	4.94E-05	1.48E-05	4.64E-05	1.53E-05	8.9531E-03
520177.2	4258793.13	192359.1079	2.25003	0.60857	2.04536	0.64265	8.83E-03	9.21E-05	2.18E-05	8.37E-05	2.21E-05	9.0448E-03
520197.02	4258803.1	191554.9598	1.77648	0.52204	1.63785	0.55739	8.79E-03	7.27E-05	1.87E-05	6.71E-05	1.91E-05	8.9658E-03
520305.95	4258812.92	191547.2	0.71344	0.31148	0.68204	0.33162	8.79E-03	2.92E-05	1.11E-05	2.80E-05	1.14E-05	8.8675E-03
520363.59	4258423.21	191338.3338	0.31222	0.46434	0.31276	0.50201	8.78E-03	1.28E-05	1.66E-05	1.28E-05	1.72E-05	8.8377E-03
520216.73	4258432.75	190597.7787	0.55157	1.44442	0.56698	1.63709	8.74E-03	2.26E-05	5.17E-05	2.32E-05	5.62E-05	8.8979E-03
520275.49	4258422.93	190546.8685	0.42873	0.83705	0.43084	0.9318	8.74E-03	1.76E-05	2.99E-05	1.76E-05	3.20E-05	8.8390E-03
520226.74	4258813.05	190151.7661	1.32287	0.43432	1.23901	0.46592	8.72E-03	5.42E-05	1.55E-05	5.07E-05	1.60E-05	8.8602E-03
520149.58	4258775.84	189356.0931	3.86696	0.78499	3.00326	0.80261	8.69E-03	1.39E-04	2.81E-05	1.23E-04	2.76E-05	9.0046E-03
520436.01	4258704.14	189056.4673	0.31698	0.23785	0.30691	0.251	8.67E-03	1.30E-05	8.51E-06	1.26E-05	8.62E-06	8.7162E-03
520365.32	4258792.82	188808.2097	0.48746	0.2568	0.46983	0.27391	8.66E-03	2.00E-05	9.19E-06	1.92E-05	9.40E-06	8.7199E-03
520373.38	4258423.24	188580.9163	0.30203	0.43911	0.3027	0.47394	8.65E-03	1.24E-05	1.57E-05	1.24E-05	1.63E-05	8.7085E-03
520265.7	4258422.9	188322.7336	0.44481	0.90838	0.44882	1.01438	8.64E-03	1.82E-05	3.25E-05	1.84E-05	3.48E-05	8.7438E-03
520177.54	4258442.63	187623.7884	0.65717	2.33796	0.68318	2.69635	8.61E-03	2.69E-05	8.36E-05	2.80E-05	9.26E-05	8.8389E-03
520345.54	4258802.85	187559.4304	0.54951	0.27108	0.52846	0.28911	8.60E-03	2.25E-05	9.70E-06	2.16E-05	9.93E-06	8.6686E-03
520216.84	4258813.07	187056.5774	1.4594	0.45568	1.35981	0.48841	8.58E-03	5.98E-05	1.63E-05	5.57E-05	1.68E-05	8.7303E-03
520315.85	4258812.9	186296.7234	0.66429	0.2979	0.63655	0.31725	8.55E-03	2.72E-05	1.07E-05	2.61E-05	1.09E-05	8.6217E-03
520255.91	4258422.87	185610.8294	0.46134	0.98995	0.46765	1.10865	8.52E-03	1.89E-05	3.54E-05	1.91E-05	3.81E-05	8.6270E-03
520412.5	4258433.36	185599.7911	0.26877	0.3509	0.26818	0.37761	8.51E-03	1.10E-05	1.26E-05	1.10E-05	1.30E-05	8.5625E-03
520107.24	4258731.68	185526.4428	9.09798	1.15343	7.68892	1.26197	8.51E-03	3.73E-04	4.44E-05	3.15E-04	4.33E-05	9.2907E-03
520394.99	4258772.77	185488.7999	0.40896	0.23983	0.39515	0.25495	8.51E-03	1.67E-05	8.58E-06	1.62E-05	8.75E-06	8.5601E-03
520206.94	4258432.72	185320.941	0.57034	1.61671	0.58823	1.83868	8.50E-03	2.34E-05	5.78E-05	2.41E-05	6.31E-05	8.6706E-03
520138.33	4258462.5	184931.8488	0.81745	4.47154	0.88319	5.34522	8.48E-03	3.35E-05	1.60E-04	3.62E-05	1.84E-04	8.8974E-03
520187.12	4258803.12	184864.8822	1.99526	0.55126	1.82697	0.5852	8.48E-03	8.17E-05	1.97E-05	7.48E-05	2.01E-05	8.6776E-03
520140.73	4258772.19	184062.2678	4.01535	0.85006	3.51661	0.85345	8.44E-03	1.64E-04	3.04E-05	1.44E-04	2.93E-05	8.8125E-03
520167.3	4258793.15	183624.4795	2.59056	0.64743	2.3335	0.67564	8.42E-03	1.06E-04	2.32E-05	9.55E-05	2.32E-05	8.6723E-03
520411.07	4258756.11	183390.5332	0.37236	0.23475	0.36004	0.24865	8.41E-03	1.52E-05	8.40E-06	1.47E-05	8.54E-06	8.4605E-03
520385.11	4258782.79	183112.6465	0.43397	0.24332	0.41893	0.25912	8.40E-03	1.78E-05	8.70E-06	1.72E-05	8.90E-06	8.4534E-03
520428.73	4258728.78	183090.0379	0.33535	0.21381	0.32447	0.2466	8.40E-03	1.37E-05	8.36E-06	1.33E-05	8.47E-06	8.4437E-03
520246.13	4258422.84	182472.2597	0.47819	1.08341	0.48707	1.21672	8.37E-03	1.96E-05	3.88E-05	1.99E-05	4.18E-05	8.4915E-03
520006.94	4258813.08	182365.2289	1.61136	0.47811	1.49342	0.51146	8.37E-03	6.60E-05	1.71E-05	6.11E-05	1.76E-05	8.5283E-03
520325.75	4258812.89	182321.7009	0.62409	0.28635	0.59869	0.30498	8.36E-03	2.56E-05	1.02E-05	2.45E-05	1.05E-05	8.4353E-03
520392.95	4258423.3	182104.9377	0.2832	0.39288	0.28343	0.42344	8.35E-03	1.16E-05	1.41E-05	1.16E-05	1.45E-05	8.4064E-03
520441.9	4258690.08	182084.2742	0.30469	0.23783	0.29524	0.25126	8.35E-03	1.25E-05	8.51E-06	1.21E-05	8.63E-06	8.3954E-03
520432.05	4258443.42	181974737	0.25502	0.31715	0.25371	0.33999	8.33E-03	1.04E-05	1.13E-05	1.04E-05	1.17E-05	8.3752E-03
520121.74	4258754.36	180686.7276	6.0718	1.06469	5.19645	1.02563	8.29E-03	2.49E-04	3.81E-05	2.13E-04	3.52E-05	8.8242E-03
520266.36	4258822.98	180554.3231	0.95179	0.35353	0.90379	0.37807	8.28E-03	3.90E-05	1.26E-05	3.70E-05	1.30E-05	8.3851E-03
520276.26	4258822.97	180362.9385	0.88393	0.33997	0.84131	0.36299	8.27E-03	3.62E-05	1.22E-05	3.44E-05	1.25E-05	8.3700E-03
520355.44	4258802.84	180360.7595	0.51855	0.26062	0.49906	0.27791	8.27E-03	2.12E-05	9.32E-06	2.04E-05	9.54E-06	8.3351E-03
520158.65	4258789.58	180244.5667	2.9486	0.69461	2.63478	0.71656	8.27E-03	1.21E-04	2.48E-05	1.08E-04	2.46E-05	8.5473E-03
520256.46	4258823	180052.9254	1.02791	0.36787	0.9734	0.39397	8.26E-03	4.21E-05	1.32E-05	3.99E-05	1.35E-05	8.3691E-03
520286.16	4258822.95	179581.7543	0.82329	0.31711	0.78517	0.34875	8.24E-03	3.37E-05	1.17E-05	3.21E-05	1.20E-05	8.3284E-03
520197.15	4258432.69	179375.9124	0.58818	1.82128	0.60795	2.08036	8.23E-03	2.41E-05	6.51E-05	2.49E-05	7.14E-05	8.4150E-03
520246.56	4258823.02	178911.4446	1.11408	0.38319	1.05167	0.41085	8.21E-03	4.56E-05	1.37E-05	4.31E-05	1.41E-05	8.3246E-03
520236.34	4258422.81	178899.4429	0.49521	1.19195	0.50678	1.34212	8.21E-03	2.03E-05	4.26E-05	2.07E-05	4.61E-05	8.3373E-03
520375.22	4258792.8	178707.6055	0.46125	0.24713	0.44474	0.26342	8.20E-03	1.89E-05	8.84E-06	1.82E-05	9.04E-06	8.2537E-03
520324.47	4258413.08	178558.975	0.35132	0.59455	0.35068	0.65067	8.19E-03	1.44E-05	2.13E-05	1.44E-05	2.23E-05	8.2643E-03
520167.75	4258440.59	178540.1828	0.67267	2.70549	0.70409	3.14241	8.19E-03	2.75E-05	9.68E-05	2.88E-05	1.08E-04	8.4521E-03
520334.25	4258413.11	178513.645	0.33964	0.55841	0.33896	0.60909	8.19E-03	1.39E-05	2.00E-05	1.39E-05	2.09E-05	8.2585E-03
520296.06	4258822.94	178423.8032	0.76924	0.31493	0.73501	0.33537	8.19E-03	3.15E-05	1.13E-05	3.01E-05	1.15E-05	8.2701E-03
520334.68	4258413.05	178189.4228	0.36353	0.6349	0.36323	0.69712	8.17E-03	1.49E-05	2.27E-05	1.49E-05	2.39E-05	8.2154E-03
520344.04	4258413.14	178031.8951	0.32842	0.52604	0.32797	0.57184	8.17E-03	1.34E-05	1.88E-05	1.34E-05	1.96E-05	8.2331E-03
520177.22	4258803.13	177491.675	2.26229	0.58368	2.05577	0.61415	8.14E-03	9.26E-05	2.09E-05	8.42E-05	2.11E-05	8.3617E-03
520335.65	4258812.87	177422.0426	0.58695	0.2752	0.56361	0.29315	8.14E-03	2.40E-05	9.84E-06	2.31E-05	1.01E-05	8.2068E-03
520236.66	4258823.03	177393.4506	1.21438	0.40017	1.14205	0.42932	8.14E-03	4.97E-05	1.43E-05	4.68E-05	1.47E-05	8.2640E-03
520128.51	4258472.47	177073.1248	0.89933	5.50615	0.98413	6.65546	8.12E-03	3.68E-05	1.97E-04	4.03E-05	2.28E-04	8.6263E-03
520197.04	4258813.1	177018.7617	1.79251	0.50297	1.65129	0.53586	8.12E-03	7.34E-05	1.80E-05	6.76E-05	1.84E-05	8.2987E-03
520422.29	4258433.39	176898.9115	0.26043	0.3349	0.25967	0.35974	8.12E-03	1.07E-05	1.20E-05	1.06E-05	1.24E-05	8.1614E-03
520295.1	4258412.99	176221.1654	0.38967	0.72871	0.39092	0.80597	8.08E-03	1.60E-05	2.61E-05	1.60E-05	2.77E-05	8.1704E-03
520305.97	4258822.92	176139.1127	0.71918	0.30297	0.6882	0.32239	8.08E-03	2.94E-05	1.08E-05	2.82E-05	1.11E-05	8.1605E-03
520402.74	4258423.33	176057.6708	0.27412	0.37259	0.2742	0.40118	8.08E-03	1.12E-05	1.33E-05	1.12E-05	1.38E-05	8.1367E-03
520149.99	4258786	175979.8141	3.3971	0.74655	3.00982	0.75915	8.07E-03	1.39E-04	2.67E-05	1.23E-04	2.61E-05	8.3887E-03
520353.83	4258413.18	175928.4883	0.31752	0.49677	0.31759	0.5381	8.07E-03	1.30E-05	1.78E-05	1.30E-05	1.85E-05	8.1335E-03
520226.76	4258823.05	175469.4524	1.33266	0.41906	1.24767	0.44949	8.05E-03	5.46E-05	1.50E-05	5.11E-05	1.54E-05	8.1863E-03
520226.55	4258422.78	174863.0099	0.51212	1.31832	0.5262	1.48842	8.02E-03	2.10E-05	4.72E-05	2.15E-05	5.11E-05	8.1631E-03
520448.95	4258466.52	174759.6949	0.24639	0.28787	0.2444	0.30754	8.02E-03	1.01E-05	1.03E-05	1.00E-05	1.06E-05	8.0586E-03
520285.31	4258412.96	174654.1498	0.4035	0.78409	0.40608	0.87038	8.01E-03	1.65E-05	2.80E-05	1.66E-05	2.99E-05	8.1109E-03
520363.62	4258413.21	174273.3874	0.30729	0.46916	0.30762	0.50697	8.00E-03	1.26E-05	1.68E-05	1.26E-05	1.74E-05	8.0547E-03
520216.86	4258823.07	172748.7269	1.46987	0.43952	1.36893	0.47074	7.93E-03	6.02E-05	1.57E-05	5.60E-05	1.62E-05	8.0735E-03
520275.52	4258412.93	172748.4598	0.41784	0.84773	0.42215	0.94393	7.93E-03	1.71E-05	3.03E-05	1.73E-05	3.24E-05	8.0225E-03
520187.36	4258432.66	172682.1728	0.60461	2.0672	0.62643	2.3736	7.92E-03	2.48E-05	7.39E-05	2.56E-05	8.15E-05	8.1282E-03
520365.34	4258802.82	172275.3653	0.48991	0.25067	0.47175	0.26722	7.90E-03	2.01E-05	8.97E-06	1.93E-05	9.17E-06	7.9612E-03
520373.41	4258413.24	172051.1507	0.29751	0.44371	0.29805	0.47851	7.89E-03	1.22E-05	1.59E-05	1.22E-05	1.64E-05	7.9501E-03
520345.55	4258812.85	171701.9901	0.55278	0.24454	0.53123	0.28181	7.88E-03	2.26E-05	9.46E-06	2.18E-05	9.67E-06	7.9409E-03
520141.34	4258782.43	171316.7144	3.99191	0.80372	3.499	0.80306	7.86E-03	1.63E-04	2.87E-05	1.43E-04	2.76E-05	8.2227E-03
520315.87	4258822.9	171206.8967	0.66902	0.29001	0.64089	0.30857	7.85E-03	2.74E-05	1.04E-05	2.62E-05	1.06E-05	7.9292E-03
520187.14	4258813.12	171038.6419	2.0109	0.53058	1.83994	0.5615	7.85E-03	8.23E-05	1.90E-05	7.53E-05	1.93E-05	8.0428E-03
520112.64	4258750.6	170812.8866	7.73874	1.14697	6.58766	1.0782	7.84E-03	3.17E-04	4.10E-05	2.70E-04	3.70E-05

520226.78	4258833.05	163372.7783	1.34136	0.40467	1.25535	0.43391	7.45E-03	5.49E-05	1.45E-05	5.14E-05	1.49E-05	7.5850E-03
520305.98	4258832.92	163337.9309	0.72446	0.29454	0.69304	0.31342	7.45E-03	2.97E-05	1.05E-05	2.84E-05	1.08E-05	7.5271E-03
520427.16	4258749.44	162079.8507	0.34595	0.22567	0.3324	0.23827	7.44E-03	1.41E-05	8.07E-06	1.36E-05	8.18E-06	7.4799E-03
520422.32	4258423.39	161721.2167	0.2574	0.13785	0.25712	0.36279	7.42E-03	1.05E-05	1.21E-05	1.05E-05	1.25E-05	7.4651E-03
520353.86	4258403.18	161425.883	0.31233	0.50109	0.31211	0.54328	7.41E-03	1.28E-05	1.79E-05	1.28E-05	1.87E-05	7.4681E-03
520236.37	4258412.81	161287.0097	0.4776	1.20912	0.49059	1.36027	7.40E-03	1.96E-05	4.32E-05	2.01E-05	4.67E-05	7.5291E-03
520447.78	4258699.98	161212.7576	0.2996	0.22936	0.28994	0.24187	7.40E-03	1.23E-05	8.20E-06	1.19E-05	8.30E-06	7.4368E-03
520114.17	4258761.23	161131.605	7.43267	1.06019	6.346	0.99672	7.39E-03	3.04E-04	3.79E-05	2.60E-04	3.42E-05	8.0287E-03
520402.77	4258413.33	161116.7456	0.2706	0.37655	0.27097	0.40492	7.39E-03	1.11E-05	1.35E-05	1.11E-05	1.39E-05	7.4413E-03
520295.13	4258402.99	160729.2521	0.3808	0.73683	0.37881	0.8154	7.37E-03	1.56E-05	2.64E-05	1.57E-05	2.80E-05	7.4596E-03
520216.87	4258833.07	160163.0211	1.48145	0.4246	1.37893	0.45427	7.35E-03	6.07E-05	1.52E-05	5.65E-05	1.56E-05	7.4959E-03
520141.83	4258792.63	159775.9844	3.97828	0.7621	3.48837	0.75788	7.33E-03	1.63E-04	2.73E-05	1.43E-04	2.60E-05	7.6892E-03
520197.18	4258422.69	159541.8069	0.55917	1.84696	0.57814	2.10875	7.32E-03	2.29E-05	6.61E-05	2.37E-05	7.24E-05	7.5045E-03
520363.65	4258403.21	159531.3285	0.30239	0.47358	0.30246	0.51182	7.32E-03	1.24E-05	1.69E-05	1.24E-05	1.76E-05	7.3783E-03
520285.34	4258402.96	159193.7486	0.39371	0.79378	0.39828	0.88119	7.30E-03	1.61E-05	2.84E-05	1.63E-05	3.03E-05	7.3946E-03
520124.03	4258775.29	159146.0857	5.7937	0.92604	4.98121	0.88817	7.30E-03	2.37E-04	3.31E-05	2.04E-04	3.05E-05	7.8061E-03
520436.03	4258735.77	158942.7222	0.32625	0.22491	0.31536	0.23699	7.29E-03	1.34E-05	8.04E-06	1.29E-05	8.14E-06	7.3344E-03
520187.16	4258823.12	158731.8014	2.02555	0.51127	1.85211	0.53929	7.28E-03	8.29E-05	1.83E-05	7.58E-05	1.85E-05	7.4779E-03
520365.35	4258812.82	158366.3472	0.49307	0.24513	0.47438	0.26106	7.27E-03	2.02E-05	8.77E-06	1.94E-05	8.96E-06	7.3229E-03
520315.88	4258832.9	158232.2206	0.67475	0.28265	0.64652	0.3006	7.26E-03	2.76E-05	1.01E-05	2.65E-05	1.03E-05	7.3339E-03
520167.34	4258813.15	158102.953	2.62789	0.59619	2.36368	0.61634	7.25E-03	1.08E-04	2.13E-05	9.68E-05	2.12E-05	7.5003E-03
520345.57	4258822.85	157987.8639	0.55628	0.25831	0.53427	0.27483	7.25E-03	2.28E-05	9.24E-06	2.19E-05	9.44E-06	7.3115E-03
520373.44	4258403.24	157685.0845	0.29299	0.44797	0.29326	0.483	7.23E-03	1.20E-05	1.60E-05	1.20E-05	1.66E-05	7.2909E-03
520226.58	4258412.78	157379.4303	0.49225	1.33715	0.50691	1.50844	7.22E-03	2.02E-05	4.78E-05	2.08E-05	5.18E-05	7.3608E-03
520275.55	4258402.93	157313.0647	0.40691	0.85871	0.4133	0.95587	7.22E-03	1.67E-05	3.07E-05	1.69E-05	3.28E-05	7.3143E-03
520451.31	4258691.54	157296.8495	0.29278	0.22925	0.28349	0.24191	7.22E-03	1.20E-05	8.20E-06	1.16E-05	8.30E-06	7.2566E-03
520410.65	4258776.29	156891.8701	0.37934	0.22539	0.36622	0.23904	7.20E-03	1.55E-05	8.06E-06	1.50E-05	8.21E-06	7.2447E-03
520395.02	4258792.77	156600.8931	0.41499	0.22968	0.4002	0.24431	7.18E-03	1.70E-05	8.22E-06	1.64E-05	8.39E-06	7.2345E-03
520167.78	4258432.59	156542.6314	0.63036	2.72836	0.66219	3.1838	7.18E-03	2.58E-05	9.79E-05	2.71E-05	1.09E-04	7.4420E-03
520206.97	4258833.08	156386.236	1.63337	0.44502	1.51231	0.47449	7.17E-03	6.69E-05	1.59E-05	6.19E-05	1.63E-05	7.3357E-03
520158.97	4258809.7	155740.5579	2.97708	0.63577	2.65712	0.64928	7.15E-03	1.22E-04	2.27E-05	1.09E-04	2.23E-05	7.4208E-03
520412.56	4258413.36	155285.7442	0.26227	0.35794	0.26255	0.38448	7.12E-03	1.07E-05	1.28E-05	1.07E-05	1.32E-05	7.1717E-03
520266.4	4258842.98	155169.1058	0.96982	0.33221	0.92032	0.3557	7.12E-03	3.97E-05	1.19E-05	3.77E-05	1.22E-05	7.2203E-03
520265.76	4258402.9	155076.7948	0.42032	0.93265	0.42866	1.04078	7.11E-03	1.72E-05	3.34E-05	1.76E-05	3.57E-05	7.2185E-03
520256.49	4258843	155005.8279	1.0485	0.34551	0.99208	0.37032	7.11E-03	4.29E-05	1.24E-05	4.06E-05	1.27E-05	7.2200E-03
520325.78	4258832.89	154878.9495	0.6335	0.2723	0.60727	0.28947	7.11E-03	2.59E-05	9.74E-06	2.49E-05	9.94E-06	7.1760E-03
520276.3	4258842.97	154621.7359	0.89926	0.31966	0.85547	0.34181	7.09E-03	3.68E-05	1.14E-05	3.50E-05	1.17E-05	7.1888E-03
520385.14	4258802.79	154372.2649	0.4398	0.23287	0.42371	0.24791	7.08E-03	1.80E-05	8.33E-06	1.73E-05	8.51E-06	7.1345E-03
520246.59	4258843.02	154194.1161	1.13672	0.35969	1.07197	0.38576	7.07E-03	4.65E-05	1.29E-05	4.39E-05	1.32E-05	7.1907E-03
520286.2	4258842.95	153511.0574	0.83603	0.30785	0.797	0.32868	7.04E-03	3.42E-05	1.10E-05	3.26E-05	1.13E-05	7.1320E-03
520187.39	4258422.66	153131.1284	0.57229	2.09389	0.59361	2.40414	7.03E-03	2.34E-05	7.49E-05	2.43E-05	8.25E-05	7.2305E-03
520216.79	4258412.75	153005.3456	0.50633	1.48665	0.52215	1.68252	7.02E-03	2.07E-05	5.32E-05	2.14E-05	5.78E-05	7.1726E-03
520177.25	4258823.13	152950.1348	2.2935	0.54014	2.08145	0.56381	7.02E-03	9.39E-05	1.93E-05	8.52E-05	1.94E-05	7.2349E-03
520432.11	4258423.42	152715.0051	0.24953	0.32239	0.24904	0.34568	7.01E-03	1.02E-05	1.15E-05	1.02E-05	1.19E-05	7.0501E-03
520393.02	4258403.1	152650.5683	0.27549	0.40122	0.27581	0.43145	7.00E-03	1.13E-05	1.44E-05	1.13E-05	1.48E-05	7.0551E-03
520150.6	4258806.24	152594.4842	3.40298	0.67815	3.01447	0.68275	7.00E-03	1.39E-04	2.43E-05	1.23E-04	2.34E-05	7.3112E-03
520118.72	4258472.44	152517.7663	0.88627	0.70298	0.98015	0.6398	7.00E-03	3.63E-05	2.53E-04	4.01E-05	2.97E-04	7.6236E-03
520255.98	4258402.87	152479.5048	0.43378	1.01708	0.44409	1.13767	7.00E-03	1.78E-05	3.64E-05	1.82E-05	3.91E-05	7.1068E-03
520105.32	4258757.57	152319.2289	9.64774	1.12318	8.28691	1.03584	6.99E-03	3.95E-04	4.02E-05	3.39E-04	3.56E-05	7.7982E-03
520355.47	4258822.84	152261.0484	0.5247	0.24869	0.50422	0.26459	6.99E-03	2.15E-05	8.90E-06	2.06E-05	9.08E-06	7.0456E-03
520296.1	4258842.93	152128.5715	0.78016	0.29684	0.74504	0.31643	6.98E-03	3.19E-05	1.06E-05	3.05E-05	1.09E-05	7.0633E-03
520197.07	4258833.1	152076.1735	1.81341	0.46736	1.66914	0.49548	6.98E-03	7.42E-05	1.67E-05	6.83E-05	1.70E-05	7.1533E-03
520115.37	4258771.71	151797.9818	7.19456	0.98609	6.16503	0.92653	6.96E-03	2.95E-04	3.53E-05	2.52E-04	3.18E-05	7.5783E-03
520335.69	4258832.87	150912.5228	0.59563	0.2623	0.5714	0.2788	6.93E-03	2.44E-05	9.38E-06	2.34E-05	9.57E-06	6.9903E-03
520375.26	4258812.8	150745.3246	0.46671	0.21626	0.44015	0.25151	6.92E-03	1.91E-05	8.45E-06	1.84E-05	8.63E-06	6.9705E-03
520403.63	4258789.21	150703.0679	0.39625	0.22455	0.38219	0.23857	6.91E-03	1.62E-05	8.03E-06	1.56E-05	8.19E-06	6.9621E-03
520306	4258842.92	150059.4357	0.7292	0.28624	0.69737	0.30469	6.88E-03	2.99E-05	1.02E-05	2.86E-05	1.05E-05	6.9635E-03
520334.32	4258393.11	149836.3786	0.32734	0.56833	0.32764	0.6214	6.87E-03	1.34E-05	2.03E-05	1.34E-05	2.13E-05	6.9427E-03
520324.53	4258393.08	149731.3687	0.33795	0.60557	0.33899	0.66426	6.87E-03	1.38E-05	2.17E-05	1.39E-05	2.28E-05	6.9416E-03
520344.1	4258393.14	149561.6051	0.3171	0.53508	0.31699	0.583	6.86E-03	1.30E-05	1.91E-05	1.30E-05	2.00E-05	6.9267E-03
520246.19	4258402.84	149510.9677	0.44716	1.11435	0.45927	1.24924	6.86E-03	1.83E-05	3.99E-05	1.88E-05	4.29E-05	6.9791E-03
520124.83	4258785.61	149407.023	5.70462	0.86974	4.91249	0.83206	6.85E-03	2.34E-04	3.11E-05	2.01E-04	2.86E-05	7.3489E-03
520314.74	4258393.05	149259.6493	0.34894	0.64708	0.351	0.71199	6.85E-03	1.43E-05	2.31E-05	1.44E-05	2.44E-05	6.9240E-03
520422.35	4258413.39	148739.318	0.25437	0.34109	0.25452	0.36593	6.82E-03	1.04E-05	1.22E-05	1.04E-05	1.26E-05	6.8605E-03
520353.89	4258393.18	148320.4757	0.3071	0.50536	0.307	0.54844	6.80E-03	1.26E-05	1.81E-05	1.26E-05	1.88E-05	6.8667E-03
520402.81	4258403.33	148209.2501	0.26704	0.38042	0.26744	0.40858	6.80E-03	1.09E-05	1.36E-05	1.10E-05	1.40E-05	6.8491E-03
520207	4258412.72	148124.6982	0.51959	1.64261	0.53638	1.88887	6.80E-03	2.13E-05	5.95E-05	2.20E-05	6.48E-05	6.9632E-03
520089.13	4258736.23	147759.5812	14.58609	1.353	16.51823	1.22199	6.78E-03	5.97E-04	4.84E-05	6.76E-04	4.20E-05	8.1428E-03
520187.17	4258833.12	147742.7018	2.04028	0.49331	1.86429	0.51852	6.78E-03	8.35E-05	1.76E-05	7.63E-05	1.78E-05	6.9735E-03
520295.16	4258393.99	147251.6963	0.37198	0.74494	0.37672	0.82458	6.76E-03	1.52E-05	2.66E-05	1.54E-05	2.83E-05	6.8412E-03
520167.35	4258823.15	147232.621	2.64254	0.57292	2.37578	0.58956	6.75E-03	1.08E-04	2.05E-05	9.73E-05	2.02E-05	7.0010E-03
520363.68	4258393.21	146970.5411	0.29761	0.47749	0.29752	0.51653	6.74E-03	1.22E-05	1.71E-05	1.22E-05	1.77E-05	6.8019E-03
520158	4258432.56	146868.2895	0.63772	3.208	0.67847	3.75427	6.74E-03	2.61E-05	1.15E-04	2.78E-05	1.29E-04	7.0356E-03
520128.57	4258452.47	146806.0032	0.74182	5.61888	0.81118	6.77607	6.74E-03	3.04E-05	2.01E-04	3.32E-05	2.33E-04	7.2324E-03
520365.37	4258822.82	146433.9009	0.49672	0.24002	0.47749	0.25536	6.72E-03	2.03E-05	8.59E-06	1.96E-05	8.77E-06	6.7753E-03
520236.4	4258402.81	146149.1926	0.46027	1.22624	0.47378	1.37808	6.71E-03	1.88E-05	4.39E-05	1.94E-05	4.73E-05	6.8345E-03
520345.59	4258832.85	146123.3206	0.56026	0.25245	0.5378	0.2683	6.70E-03	2.29E-05	9.03E-06	2.20E-05	9.21E-06	6.7671E-03
520177.6	4258422.63	145965.4693	0.58334	2.3962	0.60919	2.7671	6.70E-03	2.39E-05	8.57E-05	2.49E-05	9.50E-05	6.9261E-03
520285.37	4258392.96	145733.2519	0.3839	0.86313	0.39026	0.89145	6.69E-03	1.57E-05	2.87E-05	1.60E-05	3.06E-05	6.7770E-03
520092.8	4258745.07	145700.3488	14.41568	1.25954	13.64284	1.1415	6.68E-03	5.90E-04	4.51E-05	5.59E-04	3.92E-05	7.9175E-03
520447.67	4258724.17	145607.6892	0.30628	0.22066	0.29593	0.23215	6.68E-03	1.25E-05	7.89E-06	1.21E-05	7.97E-06	6.7207E-03
520133.86	4258799.33	145336.9438	4.70309	0.77217	4.08184	0.7506	6.67E-03	1.93E-04	2.76E-05	1.67E-04	2.58E-05	7.0809E-03
520373.47	4258393.24	145177.8448	0.28851	0.45185	0.28864	0.48738	6.66E-03	1.18E-05	1.62E-05	1.18E-05	1.67E-05	6.7170E-03
520158.34	4258819.43	145164.6811	3.02864	0.61309	2.69901	0.62224	6.66E-03	1.24E-04	2.19E-05	1.11E-04	2.14E-05	6.9377E-03
520395.04	4258802.77	144655.2246	0.41761	0.22481	0.40231	0.23911	6.64E-03	1.71E-05	8.04E-06	1.65E-05	8.21E-06	6.6863E-03
520106.71	4258768.14	144267.2424	9.24548	1.04026	7.94914	0.96037	6.62E-03	3.79E-04	3.72E-05	3.25E-04	3.30E-05	7.3929E-03
520412.23	4258785.64	144109.9565	0.37892	0.2198	0.36547	0.23318	6.61E-03	1.55E-05	7.86E-06	1.50E-05	8.01E-06	6.6578E-03
520256.51	4258853	143994.6232	1.05529	0.33473	0.99821	0.3589	6.61E-03	4.32E-05	1.20E-05	4.09E-05	1.23E-05	6.7146E-03
520275.58	4258392.93	143886.9739	0.39597	0.86949	0.40407	0.96736	6.60E-03	1.62E-05	3.11E-05	1.65E-05	3.32E-05	6.6983E-03
520266.41	4258852.98	143881.1911	0.9751	0.32184	0.92508	0.34479	6.60E-03	3.99E-05	1.15E-05	3.79E-05	1.18E-05	6.7021E-03
520246.61	4258853.02	143460.7105	1.14511	0.34847	1.07948	0.37376	6.58E-03	4.69E-05	1.25E-05	4.42E-05	1.28E-05	6.6981E-03
520276.31	4258852.97	143365.0733	0.90441	0.30987	0.86017	0.33157	6.58E-03	3.70E-05	1.11E-05	3.52E-05	1.14E-05	6.6720E-03
520412.59	4258403.36	143282.624	0.25903	0.36178	0.25948	0.38806	6.57E-03	1.06E-05	1.29E-05	1.06E-05	1.33E-05	6.6210E-03
520118.75	4258462.44	143271.7126	0.79869	7.14588	0.87893	8.69378	6.57E-03	3.27E-05	2.56E-04	3.60E-05	2.98E-04	7.1958E-03
520116.33	4258782.1	143012.7395	7.01585	0.92162	6.0282	0.86517	6.56E-03	2.87E-04	3.30E-05	2.47E-04	2.97E-05	7.1579E-03
520385.16	4258812.79	142821.9101	0.44286	0.22812	0.42623	0.24273	6.55E-03	1.81E-05	8.16E-06	1.75E-05	8.33E-06	6.6045E-03
520177.27	4258833.13	142729.3566	2.31241	0.52096	2.09661	0.54146	6.55E-03	9.47E-05	1.86E-05	8.58E-05	1.86E-05	6.7659E-03
520197.21	4258412.69	142672.4125	0.53165	1.87099	0.55001	2.13525	6.55E-03	2.18E-05	6.69E-05	2.25E-05	7.33E-05	6.7301E-03
520138.39	4258442.5	142657.91	0.68865	4.57433	0.74783	5.43922	6.54E-03	2.82E-05	1.64E-04	3.06E-05	1.87E-04	6.9540E-03
520454.54	4258707.77	142606.7493	0.29284	0.22125	0.28307	0.23294	6.54E-03	1.20E-05	7.91E-06	1.16E-05	8.00E-06	6.5820E-03
520286.21	4258852.95	142430.0322	0.84145	0.29869	0.80198	0.31916	6.53E-03	3.45E-05	1.07E-05	3.28E-05	1.10E-05	6.6233E-03
520434.59	4258756.37	142410.519	0.33416	0.21726	0.32269	0.22918	6.53E-03	1.37E-05	7.77E-06	1.32E-05	7.87E-06	6.5761E-03
520149.33	4258815.71	142385.9726	3.51531	0.6561	3.10369	0.65532	6.53E-03	1.44E-04	2.35E-05	1.27E-04	2.25E-05	6.8494E-03
520226.61	4258402.78	142367.2333	0.47287	1.33524	0.48729	1.52767	6.53E-03	1.94E-05	4.85E-05	2.00E-05	5.24E-05	6.6718E-03
520236.71	4258853.03	142269.1917	1.24608	0.36321	1.17011	0.3894	6.53E-03	5.10E-05	1.30E-05	4.79E-05	1.34E-05	6.6523E-03
520426.3	4258769.81	142267.4914	0.35103	0.21718	0.33877	0.22961	6.53E-03	1.44E-05	7.77E-06	1.39E-05	7.88E-06	6.5709E-03
520265.8	4258392.9	141700.6337	0.40808	0.94469	0.41788	1.05338	6.50E-03	1.67E-05	3.38E-05	1.71E-05	3.62E-05	6.6047E-03
520432.14	4258413.42	141174.8786	0.24675	0.32547	0.24673	0.34871	6.48E-03	1.01E-05	1.16E-05	1.01E-05	1.20E-05	6.5207E-03
520462.09	4258480.02	141035.9007	0.23838	0.2691	0.23593	0.28703	6.47E-03	9.76E-06	9.63E-06	9.66E-06	9.85E-06	6.5094E-03
520355.49	4258832.84	141023.7697	0.52843	0.2433	0.50747	0.25856	6.47E-03	2.16E-05	8.70E-06	2.08E-05	8.88E-06	6.5299E-03
520296.11	4258852.93	140917.674	0.78436	0.22806	0.74891	0.30732	6.47E-03	3.21E-05	1.03E-05	3.07E-05	1.06E-05	6.5487E-03
520393.05	4258393.3	140791.5988	0.27164	0.40505	0.27171	0.43536	6.46E-03	1.11E-05	1.45E-05	1.11E-05	1.49E-05	6.5109E-03
520226.81	4258853.05	140481.4378	1.36095	0.37912	1.27246	0.40583	6.45E-03	5.57E-05	1.36E-05	5.21E-05	1.39E-05	6.5803E-03
520403.49	4258799.27	139665.9496	0.39905	0.21989	0.38449	0.23366	6.41E-03	1.63E-05	7.87E-06	1.57E-05	8.02E-06	6.4556E-03
520443.25	4258742.78	139587.5631	0.31748	0.21657	0.30657	0.228	6.40E-03	1.30E-05	7.75E-06	1.26E-05	7.83E-06	6.4451E-03
520375.27	4258822.8	139465.0613	0.46963	0.23127	0.45156	0.24598	6.40E-03	1.92E-05	8.27E-06	1.85E-05	8.44E-06	6.4528E-03
520256.01	4258392.87	139166.3522	0.4201	1.03052	0.43144	1.15162	6.38E-03	1.72E-05	3.69E-05	1.77E-05	3.95E-05	6.4959E-03
520140.31	4258811.99	139122.2474	4.15809	0.7018	3.6317	0.68838	6.38E-03	1.70E-04	2.51E-05	1.49E-04	2.36E-05	6.7503E-03
520306.02	4258852.92	138843.0467	0.73238	0.27785	0.70031	0.29598	6.37E-03	3.00E-05	9.94E-06	2.87E-05	1.02E-05	6.4486E-03
520216.91	4258853.07	138400.9526	1.49709	0.39695	1.39255	0.42351	6.35E-03	6.13E-05	1.42E-05	5.70E-05	1.45E-05	6.4966E-03
520334.35	4258383.11	138164.5991	0.32128	0.57345	0.32263	0.62756	6.34E-03	1.32E-05	2.05E-05	1.32E-05	2.15E-05	6.4071E-03
520216.82	4258402.75	138153.5114	0.48481	1.50581	0.49989	1.7034	6.34E-03	1.99E-05	5.39E-05	2.05E-05	5.85E-05	6.4909E-03
520324.56	4258383.08	137987.982	0.33135	0.61116	0.33366	0.67092	6.33E-03	1.36E-05	2.19E-05	1.37E-05	2.30E-05	6.4027E-03
520344.14	4258383.14	137982.1753	0.31152	0.53962	0.31216	0.58858	6.33E-03	1.28E-05	1.93E-05	1.28E-05	2.02E-05	6.3954E-03
520167.82	4258422.59	137901.49	0.59132	2.76904	0.62407	3.21885	6.33E-03	2.42E-05	9.90E-05	2.56E-05	1.11E-04	6.5860E-03
520422.38	4258403.39	137622.618	0.25136	0.34464	0.25177	0.36922	6.31E-03	1.03E-05	1.23E-05	1.03E-05	1.27E-05	6.3595E-03
520167.37	4258833.15	137565.2154	2.66022	0.55139	2.38977	0.56474	6.31E-03	1.09E-04	1.97E-05	9.78E-05	1.94E-05	6.5571E-03
520314.77	4258383.05	137473.7618	0.34171	0.65347	0.34521	0.71938	6.31E-03	1.40E-05	2.34E-05	1.41E-05	2.47E-05	6.3832E-03
520402.84	4258393.33	137050.4745	0.26351	0.3842	0.26374	0.41228	6.29E-03	1.08E-05	1.37E-05	1.08E-05	1.42E-05	6.3371E-03
520353.92	4258383.18	136894.2414	0.30194	0.50946	0.30231	0.5535	6.28E-03	1.24E-05	1.82E-05	1.24E-05	1.90E-05	6.3424E-03
520187.42	4258412.66	136565.0515	0.54202	2.11907	0.56347	2.44245	6.27E-03	2.22E-05	7.58E-05	2.31E-05	8.35E-05	6.4609E-03
520098.06	4258764.57	136488.3389	12.19537	1.08323	10.84106	0.98809	6.26E-03	4.99E-04	3.87E-05	4.44E-04	3.39E-05	7.2777E-03
520461.41	4258691.37	136482.9838	0.2803	0.22107	0.27118	0.23304	6.26E-03	1.15E-05	7.91E-06	1.11E-05	8.00E-06	6.3001E-03
520315.92	4258852.9	136390.7536	0.68563	0.26819	0.65635	0.28528	6.26E-03	2.81E-05	9.59E-06	2.69E-05	9.79E-06	6.3321E-03
520107.83	4258778.6	136345.7679	8.89636	0.96813	7.67971	0.89436	6.26E-03	3.64E-04	3.46E-05	3.14E-04	3.07E-05	6.9993E-03
520246.22	4258392.84	136285.3693	0.43189	1.1292	0.44444	1.26464	6.25E-03	1.77E-05	4.04E-05	1.82E-05	4.34E-05	6.3722E-03
520345.6	4258842.85	136031.8228	0.56551	0.24719	0.54258	0.26248	6.24E-03	2.32E-05	8.84E-06	2.22E-05	9.01E-06	6.3041E-03
520207.01	4258853.08	135947.9031	1.65914	0.41677	1.53403	0.44227	6.24E-03	6.79E-05	1.49E-05	6.28E-05	1.52E-05	6.3979E-03
520148.21	4258432.53	135940.7685	0.63945	3.8176	0.68936	4.48555	6.24E-03	2.62E-05	1.37E-04	2.82E-05	1.54E-04	6.5817E-03
520363.71	4258383.21	135914.2793	0.29288	0.48118	0.29293	0.52116	6.24E-03	1.20E-05	1.72E-05	1.20E-05	1.79E-05	6.2946E-03
520365.39	4258832.82	135910.9158	0.50037	0.23508	0.48063	0.24985	6.24E-03	2.05E-05	8.41E-06	1.97E-05	8.58E-06	6.2925E-03
520158.52	4258829.5	135605.914	0.33022	0.58761	2.70086	0.59377	6.22E-03	1.24E-04	2.10E-05	1.11E-04	2.04E-05	6.4974E-03
520295.19	4258382.99	135448.0817	0.36313	0.75356	0.36947	0.83387	6.21E-03	1.49E-05	2.70E-05	1.51E-05	2.86E-05	6.2997E-03
520117.12	4258792.42	134902.8232	6.89148	0.86492	5.92645	0.81104	6.16E-03	2.82E-04	3.09E-05	2.43E-04	2.78E-05	6.7727E-03
520395.06	4258812.77	134428.9506	0.42068	0.22043	0.40485	0.23438	6.17E-03	1.72E-05	7.88E-06	1.66E-05	8.05E-06	6.2171E-03
520373.5	4258383.24	134317.1297	0.28411	0.45537	0.28408	0.49166	6.16E-03	1.16E-05	1.63E-05	1.16E-05	1.69E-05	6.2186E-03
520411.94	4258795.77	134241.0409	0.38205	0.21543	0.36813	0.22865	6.16E-03	1.56E-05	7.71E-06	1.51E-05	7.85E-06	6.2050E-03
520285.4	4258382.96	133948.8798	0.37407	0.81303	0.38194	0.90182	6.15E-03	1.53E-05	2.91E-05	1.56E-05	3.10E-05	6.2363E

520057.12	4258673.87	128011.2239	6.04053	2.19197	11.57685	1.97632	5.87E-03	2.47E-04	7.84E-05	4.74E-04	6.78E-05	6.7405E-03
520334.38	4258373.11	127864.2489	0.31527	0.57846	0.31781	0.63352	5.87E-03	1.29E-05	2.07E-05	1.30E-05	2.17E-05	5.9345E-03
520422.41	4258393.39	127823.5263	0.2483	0.34808	0.24875	0.37241	5.86E-03	1.02E-05	1.25E-05	1.02E-05	1.28E-05	5.9099E-03
520059.89	4258618.24	127798.949	5.0988	5.70599	11.54337	4.35416	5.86E-03	2.09E-04	2.04E-04	4.73E-04	1.49E-04	6.8981E-03
520344.17	4258373.14	127770.2899	0.306	0.5441	0.30764	0.59402	5.86E-03	1.25E-05	1.95E-05	1.26E-05	2.04E-05	5.9268E-03
520324.59	4258373.08	127629.4557	0.32477	0.61704	0.32841	0.67763	5.86E-03	1.33E-05	2.21E-05	1.34E-05	2.33E-05	5.9275E-03
520256.04	4258382.87	127533.4671	0.40657	1.0442	0.41831	1.16547	5.85E-03	1.66E-05	3.73E-05	1.71E-05	4.00E-05	5.9621E-03
520158.67	4258839.55	127217.8379	3.04657	0.5646	2.71257	0.56785	5.84E-03	1.25E-04	2.02E-05	1.11E-04	1.95E-05	6.1120E-03
520402.87	4258383.33	127188.3482	0.25996	0.38752	0.25992	0.41576	5.84E-03	1.06E-05	1.39E-05	1.06E-05	1.43E-05	5.8846E-03
520314.8	4258373.05	127073.5358	0.33447	0.66008	0.33936	0.72674	5.83E-03	1.37E-05	2.36E-05	1.39E-05	2.49E-05	5.9060E-03
520459.13	4258430.83	126994.4416	0.23085	0.28358	0.22957	0.30264	5.83E-03	9.45E-06	1.01E-05	9.40E-06	1.04E-05	5.8656E-03
520353.96	4258373.18	126877.1818	0.29684	0.51347	0.29798	0.55847	5.82E-03	1.22E-05	1.84E-05	1.22E-05	1.92E-05	5.8828E-03
520118.78	4258452.44	126849.2885	0.72405	7.19521	0.79178	8.75012	5.82E-03	2.96E-05	2.57E-04	3.24E-05	3.00E-04	6.4394E-03
520057.12	4258636.77	126816.4181	5.22246	3.7567	10.15607	3.15456	5.82E-03	2.14E-04	1.34E-04	4.16E-04	1.08E-04	6.6904E-03
520365.4	4258842.82	126667.0159	0.5043	0.23037	0.48408	0.24458	5.81E-03	2.06E-05	8.24E-06	1.98E-05	8.40E-06	5.8683E-03
520128.6	4258442.47	126557.8477	0.67831	5.63848	0.73882	6.83124	5.81E-03	2.78E-05	2.02E-04	3.03E-05	2.35E-04	6.3012E-03
520207.02	4258863.08	126553.3572	1.65869	0.40251	1.53401	0.42625	5.81E-03	6.79E-05	1.44E-05	6.28E-05	1.46E-05	5.9658E-03
520315.93	425886 2.9	126408.9243	0.68729	0.26019	0.65784	0.27692	5.80E-03	2.81E-05	9.31E-06	2.69E-05	9.51E-06	5.8733E-03
520363.74	4258373.21	126036.6049	0.28817	0.48485	0.28874	0.52573	5.78E-03	1.18E-05	1.73E-05	1.18E-05	1.80E-05	5.8413E-03
520441.94	4258763.34	126023.0079	0.32461	0.2093	0.31224	0.22058	5.78E-03	1.33E-05	7.49E-06	1.28E-05	7.57E-06	5.8229E-03
520411.7	4258805.88	125442.1413	0.38516	0.2113	0.37073	0.22431	5.76E-03	1.58E-05	7.56E-06	1.52E-05	7.70E-06	5.8013E-03
520216.85	4258392.75	125343.656	0.46422	1.52426	0.47857	1.72346	5.75E-03	1.90E-05	5.45E-05	1.96E-05	5.92E-05	5.9028E-03
520177.3	4258853.13	125241.4161	2.35245	0.48594	2.12804	0.50067	5.75E-03	9.63E-05	1.74E-05	8.71E-05	1.72E-05	5.9639E-03
520395.07	4258822.77	125156.8251	0.42336	0.21606	0.407	0.22961	5.74E-03	1.73E-05	7.73E-06	1.67E-05	7.88E-06	5.7916E-03
520149.95	4258835.95	125051.7093	3.50389	0.59985	3.09445	0.59418	5.74E-03	1.43E-04	2.15E-05	1.27E-04	2.04E-05	6.0491E-03
520464.75	4258707.32	125010.7697	0.28009	0.21349	0.27043	0.22459	5.74E-03	1.15E-05	7.64E-06	1.11E-05	7.71E-06	5.7731E-03
520246.25	4258382.84	124735.8452	0.41691	1.14371	0.42928	1.27958	5.72E-03	1.71E-05	4.09E-05	1.76E-05	4.39E-05	5.8421E-03
520108.93	4258472.41	124717.3121	0.85546	9.53156	0.9477	11.54478	5.72E-03	3.50E-05	3.41E-04	3.88E-05	3.96E-04	6.5329E-03
520373.53	4258373.24	124685.1433	0.27974	0.45874	0.27998	0.49586	5.72E-03	1.15E-05	1.64E-05	1.15E-05	1.70E-05	5.7767E-03
520113.27	4258800.83	124659.5734	7.65586	0.83441	6.58663	0.77545	5.72E-03	3.13E-04	2.98E-05	2.70E-04	2.66E-05	6.3588E-03
520057.12	4258683.15	124562.5859	6.15111	1.96683	11.85848	1.78869	5.71E-03	2.52E-04	7.04E-05	4.86E-04	6.14E-05	6.5838E-03
520256.54	425887 3	124507.0312	1.06138	0.3138	1.00363	0.33667	5.71E-03	4.35E-05	1.12E-05	4.11E-05	1.16E-05	5.8195E-03
520266.45	4258872.98	124422.7199	0.98177	0.30202	0.93109	0.32389	5.71E-03	4.02E-05	1.08E-05	3.81E-05	1.11E-05	5.8085E-03
520246.64	4258873.02	124089.674	1.15037	0.32634	1.08414	0.35001	5.69E-03	4.71E-05	1.17E-05	4.44E-05	1.20E-05	5.8082E-03
520276.35	4258872.97	123866.2553	0.91055	0.29005	0.86572	0.31171	5.68E-03	3.73E-05	1.04E-05	3.54E-05	1.07E-05	5.7766E-03
520325.83	4258862.89	123863.4979	0.64508	0.25156	0.61794	0.26735	5.68E-03	2.64E-05	9.00E-06	2.53E-05	9.18E-06	5.7525E-03
520197.12	4258863.1	123802.2529	1.84733	0.42292	1.69753	0.44431	5.68E-03	7.56E-05	1.51E-05	6.95E-05	1.53E-05	5.8553E-03
520450.43	4258749.82	123731.0592	0.30901	0.20868	0.29808	0.21952	5.68E-03	1.27E-05	7.46E-06	1.22E-05	7.54E-06	5.7164E-03
520138.42	4258432.5	123640.5487	0.63542	4.61588	0.68931	5.48525	5.67E-03	2.60E-05	1.65E-04	2.82E-05	1.88E-04	6.0800E-03
520285.44	4258372.96	123553.217	0.36419	0.82329	0.37322	0.91214	5.67E-03	1.49E-05	2.94E-05	1.53E-05	3.13E-05	5.7593E-03
520100.38	4258785.51	123490.5115	11.32571	0.93852	9.96805	0.85837	5.67E-03	4.64E-04	3.36E-05	4.08E-04	2.95E-05	6.6004E-03
520412.66	4258383.36	123347.5167	0.25241	0.36841	0.25253	0.39453	5.66E-03	1.03E-05	1.32E-05	1.03E-05	1.35E-05	5.7063E-03
520385.19	4258832.79	123269.4833	0.44817	0.21888	0.43052	0.23251	5.66E-03	1.83E-05	7.83E-06	1.76E-05	7.98E-06	5.7072E-03
520236.74	4258873.03	123266.9844	1.25177	0.34004	1.17514	0.36416	5.66E-03	5.13E-05	1.22E-05	4.81E-05	1.25E-05	5.7793E-03
520286.25	4258872.95	122910.5116	0.84671	0.28057	0.80674	0.30022	5.64E-03	3.47E-05	1.00E-05	3.30E-05	1.03E-05	5.7260E-03
520123.11	4258814.88	122889.9973	6.00755	0.74906	5.16491	0.70674	5.64E-03	2.46E-04	2.68E-05	2.11E-04	2.43E-05	6.1465E-03
520428.83	4258788.78	122863.8962	0.3517	0.20737	0.33885	0.21939	5.64E-03	1.44E-05	7.42E-06	1.39E-05	7.53E-06	5.6800E-03
520090.84	4258771.58	122794.2832	15.24834	1.01375	15.16187	0.93849	5.63E-03	6.24E-04	3.69E-05	6.21E-04	3.22E-05	6.9478E-03
520141.24	4258832.36	122738.3269	4.11508	0.63694	3.59592	0.62044	5.63E-03	1.68E-04	2.28E-05	1.47E-04	2.13E-05	5.9908E-03
520355.52	4258852.84	122620.1712	0.53727	0.23336	0.51538	0.24756	5.63E-03	2.20E-05	8.35E-06	2.11E-05	8.50E-06	5.6855E-03
520438.05	4258774.96	122523.0276	0.33344	0.20713	0.32155	0.21859	5.62E-03	1.37E-05	7.41E-06	1.32E-05	7.50E-06	5.6629E-03
520187.46	4258402.66	122499.8936	0.51377	2.14294	0.53585	2.4586	5.62E-03	2.10E-05	7.66E-05	2.19E-05	8.44E-05	5.8241E-03
520059.85	4258608.54	122497.0667	4.51414	7.14133	10.43773	5.02645	5.62E-03	1.85E-04	2.55E-04	4.27E-04	1.73E-04	6.6601E-03
520167.85	4258412.59	122261.8449	0.55552	2.79837	0.58896	3.25095	5.61E-03	2.27E-05	1.00E-04	2.41E-05	1.12E-04	5.8677E-03
520432.2	4258393.42	122061.6155	0.24109	0.33187	0.24155	0.35465	5.60E-03	9.87E-06	1.19E-05	9.89E-06	1.22E-05	5.6438E-03
520226.84	4258873.05	122014.593	1.36825	0.35504	1.27886	0.37911	5.60E-03	5.60E-05	1.27E-05	5.24E-05	1.30E-05	5.7319E-03
520275.65	4258372.93	121771.3296	0.37405	0.89211	0.3843	0.99014	5.59E-03	1.53E-05	3.19E-05	1.57E-05	3.40E-05	5.6836E-03
520296.15	4258872.93	121617.8877	0.78957	0.27088	0.75363	0.28945	5.58E-03	3.23E-05	9.69E-06	3.09E-05	9.94E-06	5.6624E-03
520236.46	4258382.81	121593.4244	0.42678	1.25777	0.43947	1.41116	5.58E-03	1.75E-05	4.50E-05	1.80E-05	4.84E-05	5.7074E-03
520393.11	425873 3.3	121253.9375	0.26402	0.41161	0.26375	0.44278	5.56E-03	1.08E-05	1.47E-05	1.08E-05	1.52E-05	5.6144E-03
520335.74	4258862.87	121188.9067	0.60747	0.24357	0.58222	0.25859	5.56E-03	2.49E-05	8.71E-06	2.38E-05	8.88E-06	5.6262E-03
520375.31	425884 2.8	121077.8574	0.47653	0.22226	0.45742	0.23595	5.55E-03	1.95E-05	7.95E-06	1.87E-05	8.10E-06	5.6091E-03
520167.4	4258853.15	120919.4209	2.6963	0.51213	2.4177	0.51978	5.55E-03	1.10E-04	1.83E-05	9.90E-05	1.78E-05	5.7931E-03
520207.06	4258392.72	120866.9456	0.47337	1.70277	0.48916	1.93316	5.55E-03	1.94E-05	6.09E-05	2.00E-05	6.64E-05	5.7118E-03
520187.22	4258863.12	120643.1101	2.07393	0.44494	1.89218	0.46268	5.53E-03	8.49E-05	1.59E-05	7.75E-05	1.59E-05	5.7291E-03
520216.94	4258873.07	120314.5132	1.50282	0.37138	1.39768	0.39474	5.52E-03	6.15E-05	1.33E-05	5.72E-05	1.36E-05	5.6654E-03
520458.69	4258420.62	120293.4796	0.22892	0.26646	0.22804	0.3058	5.52E-03	9.37E-06	1.02E-05	9.34E-06	1.05E-05	5.5583E-03
520306.05	4258872.92	120006.4859	0.73826	0.26184	0.70565	0.27935	5.51E-03	3.02E-05	9.37E-06	2.89E-05	9.59E-06	5.5837E-03
520265.86	425873 2.9	119685.5135	0.38375	0.96991	0.39492	1.07853	5.49E-03	1.57E-05	3.47E-05	1.62E-05	3.70E-05	5.5945E-03
520471.48	4258691.25	119469.2905	0.26859	0.2134	0.25965	0.2247	5.48E-03	1.10E-05	7.63E-06	1.06E-05	7.71E-06	5.5180E-03
520422.44	4258383.39	119137.8277	0.24523	0.35132	0.24553	0.37553	5.47E-03	1.00E-05	1.26E-05	1.01E-05	1.29E-05	5.5114E-03
520104.26	4258797.11	119008.5514	9.94722	0.86876	8.66777	0.79766	5.46E-03	4.07E-04	3.11E-05	3.55E-04	2.74E-05	6.2805E-03
520148.24	4258422.53	118946.8435	0.59435	3.85489	0.64165	4.52308	5.46E-03	2.43E-05	1.38E-04	2.63E-05	1.55E-04	5.8008E-03
520472.09	4258480.39	118941.9821	0.23055	0.25794	0.22798	0.27476	5.46E-03	9.44E-06	9.23E-06	9.33E-06	9.43E-06	5.4943E-03
520334.41	4258363.11	118723.8996	0.30926	0.58396	0.31302	0.63968	5.45E-03	1.27E-05	2.09E-05	1.28E-05	2.20E-05	5.5152E-03
520344.2	4258363.15	118714.9168	0.3005	0.54881	0.30327	0.59951	5.45E-03	1.23E-05	1.96E-05	1.24E-05	2.06E-05	5.5113E-03
520402.9	4258373.33	118499.1541	0.25646	0.39065	0.25622	0.41926	5.44E-03	1.05E-05	1.40E-05	1.05E-05	1.44E-05	5.4859E-03
520324.62	4258363.08	118431.6281	0.31817	0.62327	0.32308	0.68443	5.43E-03	1.30E-05	2.23E-05	1.32E-05	2.35E-05	5.5055E-03
520207.04	4258873.08	118305.8339	1.66248	0.38948	1.53735	0.41136	5.43E-03	6.81E-05	1.39E-05	6.29E-05	1.41E-05	5.5867E-03
520114.26	4258811.23	118282.1445	7.49525	0.78532	6.43349	0.72982	5.43E-03	3.07E-04	2.81E-05	2.63E-04	2.51E-05	6.0500E-03
520226.67	4258382.78	118088.6024	0.43605	1.38894	0.44908	1.56372	5.42E-03	1.79E-05	4.97E-05	1.84E-05	5.37E-05	5.5573E-03
520353.99	4258363.18	117991.5186	0.2918	0.51758	0.29388	0.56342	5.41E-03	1.19E-05	1.85E-05	1.20E-05	1.93E-05	5.4751E-03
520365.42	4258852.82	117893.5438	0.59668	0.22518	0.48605	0.23885	5.41E-03	2.07E-05	8.05E-06	1.99E-05	8.20E-06	5.4656E-03
520315.95	425872 9.9	117844.9876	0.6906	0.25298	0.66088	0.26944	5.41E-03	2.83E-05	9.05E-06	2.71E-05	9.25E-06	5.4801E-03
520314.83	4258363.05	117836.5265	0.3272	0.66702	0.33333	0.73415	5.41E-03	1.34E-05	2.39E-05	1.36E-05	2.52E-05	5.4822E-03
520108.96	4258462.41	117707.6003	0.76902	9.58585	0.84506	11.61428	5.40E-03	3.15E-05	3.43E-04	3.46E-05	3.99E-04	6.2079E-03
520092.01	4258782.06	117339.7232	14.77259	0.96193	14.31826	0.87563	5.38E-03	6.05E-04	3.44E-05	5.86E-04	3.01E-05	6.6389E-03
520256.07	4258372.87	117291.683	0.39319	1.05805	0.40488	1.17914	5.38E-03	1.61E-05	3.78E-05	1.66E-05	4.05E-05	5.4921E-03
520363.78	4258363.21	117140.166	0.28344	0.48863	0.28484	0.53025	5.37E-03	1.16E-05	1.75E-05	1.17E-05	1.82E-05	5.4331E-03
520167.32	4258863.13	117045.5749	2.34694	0.4682	2.12485	0.48074	5.37E-03	9.61E-05	8.70E-05	8.70E-05	1.65E-05	5.5862E-03
520305.04	4258363.02	116949.1769	0.3363	0.71606	0.34369	0.78974	5.37E-03	1.38E-05	2.56E-05	1.41E-05	2.71E-05	5.4460E-03
520059.81	4258598.85	116771.6907	3.78442	8.9405	8.72421	5.65802	5.36E-03	1.55E-04	3.20E-04	3.57E-04	1.94E-04	6.3834E-03
520467.75	4258434.52	116731.7623	0.22541	0.27218	0.22389	0.29004	5.36E-03	9.23E-06	9.74E-06	9.17E-06	9.96E-06	5.3935E-03
520395.09	4258832.77	116684.092	0.42556	0.21167	0.40871	0.22477	5.35E-03	1.74E-05	7.57E-06	1.67E-05	7.72E-06	5.4027E-03
520256.56	425883 3	116508.0465	1.06715	0.30473	1.00873	0.32694	5.35E-03	4.37E-05	1.09E-05	4.13E-05	1.12E-05	5.4523E-03
520266.46	4258882.98	116398.5835	0.98726	0.29337	0.936	0.3147	5.34E-03	4.04E-05	1.05E-05	3.83E-05	1.08E-05	5.4402E-03
520473.34	4258463.05	116296.5474	0.22668	0.26021	0.22457	0.27691	5.34E-03	9.28E-06	9.31E-06	9.19E-06	9.51E-06	5.3728E-03
520246.66	4258883.02	116209.6131	1.15714	0.317	1.09006	0.33983	5.33E-03	4.74E-05	1.13E-05	4.46E-05	1.17E-05	5.4465E-03
520123.81	4258825.16	116178.2826	5.9324	0.70926	5.09729	0.66833	5.33E-03	2.43E-04	2.54E-05	2.09E-04	2.29E-05	5.8300E-03
520177.67	4258402.63	116133.059	0.51969	2.44863	0.54728	2.82496	5.33E-03	2.13E-05	8.76E-05	2.24E-05	9.70E-05	5.5562E-03
520437.28	4258785.28	116101.0763	0.3371	0.2034	0.3248	0.21483	5.33E-03	1.38E-05	7.28E-06	1.33E-05	7.38E-06	5.3682E-03
520373.56	4258363.24	116071.2179	0.27541	0.4621	0.27622	0.50001	5.33E-03	1.13E-05	1.65E-05	1.13E-05	1.72E-05	5.3814E-03
520197.28	4258392.69	115919.7878	0.48122	1.91323	0.49983	2.18238	5.32E-03	1.97E-05	6.84E-05	2.05E-05	7.49E-05	5.5017E-03
520276.36	4258882.97	115911.415	0.91613	0.28281	0.87076	0.30314	5.32E-03	3.75E-05	1.01E-05	3.57E-05	1.04E-05	5.4115E-03
520197.14	425887 3.1	115852.6276	1.85088	0.40896	1.70073	0.42832	5.32E-03	7.58E-05	1.46E-05	6.96E-05	1.47E-05	5.4898E-03
520428.34	4258798.99	115832.2635	0.35498	0.20357	0.34171	0.21551	5.31E-03	1.45E-05	7.28E-06	1.40E-05	7.40E-06	5.3574E-03
520295.26	4258362.99	115774.6334	0.34538	0.77105	0.35399	0.85194	5.31E-03	1.41E-05	2.76E-05	1.45E-05	2.92E-05	5.3970E-03
520061.21	4258717.12	115629.3663	7.55732	1.43669	17.63332	1.32556	5.30E-03	3.09E-04	5.14E-05	7.22E-04	4.55E-05	6.4332E-03
520236.76	4258883.03	115514.2898	1.25938	0.33035	1.18172	0.35342	5.30E-03	5.16E-05	1.18E-05	4.84E-05	1.21E-05	5.4235E-03
520325.85	4258872.89	115430.1794	0.64775	0.24468	0.62038	0.26017	5.30E-03	2.65E-05	8.75E-06	2.54E-05	8.93E-06	5.3653E-03
520385.21	4258842.79	115283.0009	0.45132	0.21471	0.43315	0.22789	5.29E-03	1.85E-05	7.68E-06	1.77E-05	7.82E-06	5.3407E-03
520412.69	4258373.36	115118.8841	0.24913	0.17137	0.249	0.3977	5.28E-03	1.02E-05	1.33E-05	1.02E-05	1.37E-05	5.3288E-03
520461.66	4258738.63	115079.7257	0.29129	0.20514	0.28079	0.2154	5.28E-03	1.19E-05	7.34E-06	1.15E-05	7.39E-06	5.3178E-03
520286.26	4258882.95	115048.4904	0.85223	0.27289	0.81175	0.29219	5.28E-03	3.49E-05	9.76E-06	3.32E-05	1.00E-05	5.3661E-03
520446.65	4258771.39	114729.1854	0.31949	0.20296	0.30806	0.21383	5.26E-03	1.31E-05	7.26E-06	1.26E-05	7.34E-06	5.3038E-03
520246.28	4258372.84	114583.7415	0.40223	1.15847	0.41415	1.29436	5.26E-03	1.65E-05	4.14E-05	1.70E-05	4.44E-05	5.3762E-03
520226.86	4258883.05	114461.5989	1.37748	0.34503	1.28674	0.36784	5.25E-03	5.64E-05	1.23E-05	5.27E-05	1.26E-05	5.3853E-03
520285.47	4258362.96	114312.6785	0.35438	0.83305	0.36409	0.92197	5.24E-03	1.45E-05	2.88E-05	1.49E-05	3.17E-05	5.3353E-03
520216.88	4258382.75	114210.6964	0.44456	1.54172	0.4585	1.74241	5.24E-03	1.82E-05	5.51E-05	1.88E-05	5.98E-05	5.3917E-03
520355.54	4258862.84	114171.6069	0.53935	0.22771	0.51713	0.24142	5.24E-03	2.21E-05	8.14E-06	2.12E-05	8.29E-06	5.2977E-03
520432.23	4258383.42	114138.1713	0.23822	0.3349	0.23863	0.35747	5.24E-03	9.75E-06	1.20E-05	9.77E-06	1.23E-05	5.2802E-03
520158.06	4258412.56	113992.7823	0.55714	3.27538	0.59706	3.82522	5.23E-03	2.28E-05	1.17E-04	2.44E-05	1.31E-04	5.5255E-03
520296.17	4258882.93	113799.9688	0.79439	0.26351	0.758	0.28177	5.22E-03	3.25E-05	9.43E-06	3.10E-05	9.67E-06	5.3036E-03
520057.69	4258708.63	113753.036	6.34969	1.52196	12.77138	1.40367	5.22E-03	2.60E-04	5.44E-05	1.23E-04	4.82E-05	6.1045E-03
520468.29	4258722.81	113634.1804	0.27939	0.20604	0.26937	0.21631	5.21E-03	1.14E-05	7.37E-06	1.10E-05	7.43E-06	5.2506E-03
520095.25	4258793.39	113564.9744	13.38444	0.89426	12.31441	0.8159	5.21E-03	5.48E-04	3.20E-05	5.04E-04	2.80E-05	6.3224E-03
520105.4	4258807.57	113368.8308	9.64865	0.8156	8.36747	0.74953	5.20E-03	3.95E-04	2.92E-05	3.43E-04	2.57E-05	5.9937E-03
520167.42	425886 3.15	113200.2549	2.6881	0.49288	2.41305	0.49842	5.19E-03	1.10E-04	1.76E-05	9.88E-05	1.71E-05	5.4370E-03
520393.14	425836 3.3	113124.7898	0.26027	0.4146	0.26016	0.44641	5.19E-03	1.07E-05	1.48E-05	1.07E-05	1.53E-05	5.2414E-03
520335.75	4258872.87	113121.0629	0.61057	0.23733	0.58502	0.25204	5.19E-03	2.50E-05	8.49E-06	2.40E-05	8.65E-06	5.2559E-03
520187.24	4258873.12	113085.4786	0.27894	0.43009	1.89657	0.44509	5.19E-03	8.51E-05	1.54E-05	7.77E-05	1.53E-05	5.3816E-03
520375.32	4258852.8	113051.7155	0.47921	0.21762	0.45964	0.2308	5.19E-03	1.96E-05	7.78E-06	1.88E-05	7.92E-06	5.2407E-03
520216.96	4258883.07	112997.6094	1.51405	0.36097	1.40714	0.38286	5.18E-03	6.20E-05	1.29E-05	5.76E-05	1.31E-05	5.3298E-03
520275.68	4258362.93	112554.0575	0.36322	0.96082	0.37377	1.00087	5.16E-03	1.49E-05	3.23E-05	1.53E-05	3.44E-05	5.2606E-03
520306.07	4258882.92	112345.7591	0.74299	0.25488	0.70996	0.27216	5.15E-03	3.04E-05	9.12E-06	2.91E-05	9.34E-06	5.2322E-03
520467.07	4258424.21	112253.5207	0.22381	0.27506	0.22259	0.29327	5.15E-03	9.16E-06	9.84E-06	9.11E-06	1.01E-05	5.1882E-03
520115.09	4258221.56	112176.9083	7.35523	0.74127	6.30434	0.68881	5.15E-03	3.01E-04	2.65E-05	2.58E-04	2.36E-05	5.7559E-03
520158.32	4258859.39	111975.3068	3.0764	0.52349	2.73854	0.52181	5.14E-03	1.26E-04	1.87E-05	1.12E-04	1.79E-05	5.4119E-03
520054.16	4258700.13	111611.0321	5.6169	1.61282	9.94732	1.4881	5.12E-03	2.30E-04	5.77E-05	4.07E-04	5.11E-05	5.8665E-03
520236.49	4258372.81	111551.4125	0.41079	1.27314	0.42285	1.42697	5.12E-03	1.68E-05	4.55E-05	1.73E-05	4.90E-05	5.2464E-03
520422.48	4258373.39	111421.2067	0.24214	0.35441	0.24221	0.37863	5.11E-03	9.91E-06	1.27E-05	9.92E-06	1.30E-05	5.1573E-03
520207.06	4258883.08	111194.6568	1.67487	0.37838	1.54764	0.39854	5.10E-03	6.86E-05	1.35E-05	6.34E-05	1.37E-05	5.2606E-03
520402.93	4258363.33	110719.4093	0.25298	0.3936	0.25273	0.42274	5.08E-03	1.04E-05	1.41E-05	1.03E-05	1.45E-05	5.1289E-03
520059.77	4258589.15	110619.6087	3.04233	10.75058	6.37004	6.12036	5.08E-03	1.25E-04	3.85E-04	2.61E-04	2.10E-04	6.0550E-03
520344.23	4258353.15	110583.159	0.29496	0.55398	0.29889	0.60518	5.07E-03	1.21E-05	1.98E-05	1.22E-05	2.08E-05	5.1382E-03
520334.44	4258353.11	110557.5662	0.3032	0.58882	0.30814	0.64597	5.07E-03	1.24E-05	2.11E-05	1.26E-05	2.22E-05	5.1405E-03
520457.59	4258756.86	110540.1485	0.30083	0.20117	0.28985	0.21147	5.07E-03	1.23E-05	7.20E-06	1.19E-05	7.26E-06	5.1100E-03
520265.89	425836 2.9	110498.9696	0.37183	0.98157	0.38289	1.09021	5.07E-03	1.52E-05	3.51E-05

520432.26	4258373.42	107067.715	0.23536	0.33782	0.23556	0.3603	4.91E-03	9.64E-06	1.21E-05	9.64E-06	1.24E-05	4.9558E-03
520355.55	4258872.84	106709.0299	0.54181	0.22231	0.51927	0.23561	4.90E-03	2.22E-05	7.95E-06	2.13E-05	8.09E-06	4.9551E-03
520296.18	4258892.93	106623.0072	0.79831	0.25631	0.76152	0.27423	4.89E-03	3.27E-05	9.17E-06	3.12E-05	9.41E-06	4.9741E-03
520187.26	4258883.12	106453.2689	2.0928	0.41698	1.90775	0.43047	4.88E-03	8.57E-05	1.49E-05	7.81E-05	1.48E-05	5.0774E-03
520167.44	4258873.15	106406.0295	2.69201	0.47522	2.41676	0.47871	4.88E-03	1.10E-04	1.70E-05	9.90E-05	1.64E-05	5.1243E-03
520115.81	4258831.85	106378.5908	7.22662	0.7014	6.18938	0.65165	4.88E-03	2.96E-04	2.51E-05	2.53E-04	2.24E-05	5.4772E-03
520216.97	4258893.07	106151.8843	1.52146	0.35064	1.41338	0.37101	4.87E-03	6.23E-05	1.25E-05	5.79E-05	1.27E-05	5.0155E-03
520285.5	4258352.96	106055.4397	0.34467	0.84233	0.35458	0.93131	4.87E-03	1.41E-05	3.01E-05	1.45E-05	3.20E-05	4.9564E-03
520335.77	4258882.87	106038.401	0.61442	0.23151	0.5885	0.24602	4.86E-03	2.52E-05	8.28E-06	2.41E-05	8.45E-06	4.9308E-03
520403.77	4258839.18	105909.5252	0.40774	0.20277	0.39124	0.21512	4.86E-03	1.67E-05	7.25E-06	1.60E-05	7.39E-06	4.9063E-03
520393.17	4258353.3	105856.5985	0.25656	0.41739	0.25687	0.4499	4.86E-03	1.05E-05	1.49E-05	1.05E-05	1.54E-05	4.9079E-03
520476.37	4258438.21	105718.0657	0.22008	0.26173	0.21837	0.27844	4.85E-03	9.01E-06	9.36E-06	8.94E-06	9.56E-06	4.8870E-03
520246.31	4258362.84	105586.6476	0.38802	1.17167	0.39931	1.308	4.84E-03	1.59E-05	4.19E-05	1.63E-05	4.49E-05	4.9632E-03
520481.53	4258691.19	105423.489	0.25765	0.20602	0.2488	0.21672	4.84E-03	1.05E-05	7.37E-06	1.02E-05	7.44E-06	4.8722E-03
520375.34	4258862.8	105343.3661	0.48022	0.21249	0.46033	0.22512	4.83E-03	1.97E-05	7.60E-06	1.88E-05	7.73E-06	4.8868E-03
520158.47	4258869.45	105318.7525	3.07054	0.50323	2.73468	0.49986	4.83E-03	1.26E-04	1.80E-05	1.12E-04	1.72E-05	5.1047E-03
520197.31	4258382.69	105251.7771	0.45826	1.93329	0.47762	2.20383	4.83E-03	1.88E-05	6.92E-05	1.96E-05	7.57E-05	5.0119E-03
520306.08	4258892.92	105188.2415	0.74609	0.24788	0.71271	0.26484	4.83E-03	3.05E-05	8.87E-06	2.92E-05	9.09E-06	4.9035E-03
520108.99	4258452.41	104957.4952	0.69593	9.62409	0.75893	11.66282	4.82E-03	2.85E-05	3.44E-04	3.11E-05	4.00E-04	5.6195E-03
520148.27	4258412.53	104917.3067	0.55391	3.88845	0.59761	4.55859	4.81E-03	2.27E-05	1.39E-04	2.45E-05	1.57E-04	5.1561E-03
520047.12	4258664.6	104619.5494	3.95167	2.24575	6.12433	2.00939	4.80E-03	1.62E-04	8.03E-05	2.51E-04	6.90E-05	5.3616E-03
520047.12	4258673.87	104568.0113	4.08527	2.01746	6.30665	1.82703	4.80E-03	1.67E-04	7.22E-05	2.58E-04	6.27E-05	5.3578E-03
520207.07	4258893.08	104534.2599	1.68286	0.36735	1.55434	0.38582	4.80E-03	6.89E-05	1.31E-05	6.36E-05	1.32E-05	4.9548E-03
520422.51	4258363.39	104515.5423	0.2391	0.35692	0.23894	0.38141	4.79E-03	9.79E-06	1.28E-05	9.78E-06	1.31E-05	4.8404E-03
520177.7	4258392.63	104510.0708	0.49135	2.47247	0.51958	2.85055	4.79E-03	2.01E-05	8.84E-05	2.13E-05	9.79E-05	5.0224E-03
520216.92	4258372.75	104482.2261	0.42579	1.55912	0.43984	1.76035	4.79E-03	1.74E-05	5.58E-05	1.80E-05	6.04E-05	4.9451E-03
520061.4	4258741.7	104436.9872	8.15642	1.16717	18.12166	1.08754	4.79E-03	3.34E-04	4.17E-05	7.42E-04	3.73E-05	5.9464E-03
520275.71	4258352.93	104339.997	0.3526	0.91256	0.36293	1.01087	4.79E-03	1.44E-05	3.26E-05	1.49E-05	3.47E-05	4.8836E-03
520436.14	4258805.77	104073.9263	0.34345	0.19004	0.33029	0.20734	4.77E-03	1.41E-05	7.01E-06	1.35E-05	7.12E-06	4.8164E-03
520444.98	4258792.1	104015.6237	0.32663	0.19589	0.31436	0.20672	4.77E-03	1.34E-05	7.01E-06	1.29E-05	7.10E-06	4.8124E-03
520059.73	4258579.45	103971.4385	2.5146	12.03481	4.53985	6.47735	4.77E-03	1.03E-04	4.30E-04	1.86E-04	2.22E-04	5.7117E-03
520149.5	4258865.74	103872.5981	3.54739	0.5323	3.13273	0.52077	4.77E-03	1.45E-04	1.90E-05	1.28E-04	1.79E-05	5.0759E-03
520402.96	4258353.33	103748.6003	0.24953	0.39613	0.2495	0.42591	4.76E-03	1.02E-05	1.42E-05	1.02E-05	1.46E-05	4.8090E-03
520097.66	4258814.37	103621.0435	12.38413	0.78784	11.10901	0.72069	4.75E-03	5.07E-04	2.82E-05	4.55E-04	2.47E-05	5.7688E-03
520177.35	4258883.13	103568.4087	2.36872	0.4379	2.14252	0.44608	4.75E-03	9.70E-05	1.57E-05	8.77E-05	1.53E-05	4.9672E-03
520047.12	4258683.15	103482.8226	4.19826	1.82437	6.46955	1.66827	4.75E-03	1.72E-04	6.53E-05	2.65E-04	5.73E-05	5.3069E-03
520047.12	4258655.32	103478.4047	3.79612	2.51763	5.91625	2.21941	4.75E-03	1.55E-04	9.01E-05	2.42E-04	7.62E-05	5.3113E-03
520315.98	4258892.9	103434.6094	0.69843	0.23986	0.66793	0.25589	4.75E-03	2.86E-05	8.58E-06	2.73E-05	8.78E-06	4.8187E-03
520475.44	4258427.8	103394.8956	0.21877	0.2646	0.2173	0.28169	4.74E-03	8.96E-06	9.44E-06	8.90E-06	9.67E-06	4.7805E-03
520344.26	4258343.15	103174.9312	0.28938	0.55925	0.2944	0.61077	4.73E-03	1.18E-05	2.00E-05	1.21E-05	2.10E-05	4.7983E-03
520087.7	4258800.27	103108.3497	15.27936	0.85111	18.13949	0.77763	4.73E-03	6.26E-04	3.04E-05	7.43E-04	2.67E-05	6.1559E-03
520427.58	4258819.32	103077.2303	0.36076	0.19626	0.34662	0.20788	4.73E-03	1.48E-05	7.02E-06	1.42E-05	7.14E-06	4.7719E-03
520334.47	4258343.11	103047.2009	0.29705	0.59599	0.30309	0.65224	4.73E-03	1.22E-05	2.13E-05	1.24E-05	2.24E-05	4.7959E-03
520471.95	4258738	103012.2162	0.27837	0.19848	0.26801	0.20816	4.73E-03	1.14E-05	7.10E-06	1.10E-05	7.15E-06	4.7626E-03
520412.44	4258835.59	102951.565	0.39053	0.19895	0.37471	0.21102	4.72E-03	1.60E-05	7.12E-06	1.53E-05	7.24E-06	4.7680E-03
520121.89	4258844.36	102915.4704	6.22361	0.64937	5.33522	0.60765	4.72E-03	2.55E-04	2.32E-05	2.18E-04	2.09E-05	5.2389E-03
520354.05	4258343.18	102803.3622	0.28167	0.52636	0.28584	0.57331	4.72E-03	1.15E-05	1.88E-05	1.17E-05	1.97E-05	4.7782E-03
520454.18	4258778.28	102766.0557	0.31017	0.19553	0.2987	0.20584	4.71E-03	1.27E-05	6.99E-06	1.22E-05	7.07E-06	4.7537E-03
520324.68	4258343.08	102669.037	0.30477	0.63673	0.31182	0.69817	4.71E-03	1.25E-05	2.28E-05	1.28E-05	2.40E-05	4.7822E-03
520236.52	4258362.81	102668.3307	0.39539	1.28719	0.40697	1.44165	4.71E-03	1.62E-05	4.60E-05	1.67E-05	4.95E-05	4.8386E-03
520107.21	4258828.3	102646.0596	9.16981	0.27505	7.89922	0.66729	4.71E-03	3.75E-04	2.59E-05	3.23E-04	2.29E-05	5.4560E-03
520395.12	4258852.77	102622.6404	0.43079	0.2037	0.41295	0.21596	4.71E-03	1.76E-05	7.29E-06	1.69E-05	7.41E-06	4.7574E-03
520197.17	4258893.1	102577.8239	1.87423	0.38527	1.71993	0.40085	4.71E-03	7.67E-05	1.38E-05	7.04E-05	1.38E-05	4.8808E-03
520466.23	4258403.82	102494.768	0.22011	0.28062	0.21973	0.29916	4.70E-03	9.01E-06	1.00E-05	8.00E-06	1.03E-05	4.7406E-03
520256.59	4258903	102451.8826	1.0755	0.2877	1.05195	0.30841	4.70E-03	4.40E-05	1.03E-05	4.16E-05	1.06E-05	4.8068E-03
520140.53	4258862.04	102449.5091	4.20634	0.56284	3.66819	0.54172	4.70E-03	1.72E-04	2.01E-05	1.50E-04	1.86E-05	5.0613E-03
520365.45	4258872.82	102433.8188	0.50922	0.21442	0.48803	0.22705	4.70E-03	2.08E-05	7.67E-06	2.00E-05	7.79E-06	4.7558E-03
520265.92	4258352.9	102357.4291	0.36024	0.99195	0.37073	1.10107	4.70E-03	1.47E-05	3.55E-05	1.52E-05	3.78E-05	4.7992E-03
520266.5	4258902.98	102331.456	0.99535	0.27706	0.94307	0.29721	4.69E-03	4.08E-05	9.91E-06	3.86E-05	1.02E-05	4.7943E-03
520246.69	4258903.02	102285.0237	1.16641	0.29933	1.098	0.32031	4.69E-03	4.78E-05	1.07E-05	4.50E-05	1.10E-05	4.8071E-03
520363.84	4258343.21	102212.8483	0.27412	0.49638	0.27745	0.53923	4.69E-03	1.12E-05	1.78E-05	1.14E-05	1.85E-05	4.7482E-03
520054.46	4258724.97	102212.1665	5.84044	1.29142	10.27215	1.20498	4.69E-03	2.39E-04	4.62E-05	4.21E-04	4.14E-05	5.4366E-03
520481.25	4258457.95	102067.906	0.22008	0.25294	0.21801	0.2688	4.68E-03	9.01E-06	9.05E-06	8.93E-06	9.23E-06	4.7189E-03
520314.9	4258343.05	102018.4452	0.31246	0.68205	0.32049	0.74915	4.68E-03	1.28E-05	2.44E-05	1.31E-05	2.57E-05	4.7564E-03
520049.93	4258627.98	101877.4904	3.5615	3.85492	5.93579	3.16212	4.67E-03	1.46E-04	1.38E-04	2.43E-04	1.09E-04	5.3092E-03
520276.4	4258902.97	101863.42	0.92367	0.26717	0.8774	0.28653	4.67E-03	3.78E-05	9.56E-06	3.59E-05	9.84E-06	4.7664E-03
520236.79	4258903.03	101795.6751	1.26989	0.312	1.19066	0.33283	4.67E-03	5.20E-05	1.12E-05	4.88E-05	1.14E-05	4.7935E-03
520158.09	4258402.56	101540.4031	0.52226	3.305	0.56041	3.85602	4.66E-03	2.14E-05	1.18E-04	2.29E-05	1.32E-04	4.9534E-03
520325.88	4258892.89	101515.8007	0.65572	0.23245	0.62755	0.2476	4.66E-03	2.68E-05	8.31E-06	2.57E-05	8.50E-06	4.7267E-03
520373.63	4258343.24	101460.076	0.26681	0.46894	0.2693	0.50817	4.65E-03	1.09E-05	1.68E-05	1.10E-05	1.74E-05	4.7110E-03
520047.12	4258646.05	101298.2705	3.6197	2.84111	5.6737	2.46016	4.65E-03	1.48E-04	1.02E-04	2.32E-04	8.45E-05	5.2140E-03
520478.49	4258722.38	101292.2787	0.26744	0.19906	0.25746	0.20883	4.65E-03	1.10E-05	7.12E-06	1.05E-05	7.17E-06	4.6829E-03
520412.75	4258353.36	101230.0018	0.24269	0.37677	0.24249	0.40401	4.64E-03	9.94E-06	1.35E-05	9.93E-06	1.39E-05	4.6914E-03
520305.11	4258343.02	101165.3938	0.32013	0.73251	0.32897	0.80597	4.64E-03	1.31E-05	2.62E-05	1.35E-05	2.77E-05	4.7217E-03
520286.3	4258902.95	101138.7125	0.85974	0.25804	0.81842	0.27654	4.64E-03	3.52E-05	9.23E-06	3.35E-05	9.49E-06	4.7275E-03
520459.98	4258391.14	101047.8738	0.22138	0.29213	0.22161	0.31117	4.64E-03	9.06E-06	1.04E-05	9.07E-06	1.07E-05	4.6752E-03
520482.08	4258480.77	101039.6651	0.22106	0.24739	0.22034	0.2632	4.64E-03	9.13E-06	8.85E-06	9.02E-06	9.04E-06	4.6715E-03
520226.89	4258903.05	100976.7171	1.38884	0.32576	1.29635	0.34593	4.63E-03	5.69E-05	1.17E-05	5.31E-05	1.19E-05	4.7661E-03
520385.24	4258862.79	100771.2254	0.45495	0.20567	0.43594	0.21787	4.62E-03	1.86E-05	7.36E-06	1.78E-05	7.48E-06	4.6745E-03
520432.3	4258363.42	100707.6038	0.2325	0.34044	0.23246	0.36301	4.62E-03	9.52E-06	1.22E-05	9.52E-06	1.25E-05	4.6639E-03
520167.45	4258883.15	100473.3836	2.71315	0.45972	2.43274	0.46111	4.61E-03	1.11E-04	1.64E-05	9.96E-05	1.58E-05	4.8525E-03
520207.13	4258372.72	100415.6138	0.43186	1.73948	0.44851	1.97188	4.61E-03	1.77E-05	6.22E-05	1.84E-05	6.77E-05	4.7728E-03
520050.99	4258716.6	100360.4099	5.04562	1.36055	8.33612	1.26831	4.60E-03	2.07E-04	4.87E-05	3.41E-04	4.35E-05	5.2445E-03
520187.27	4258893.12	100264.0608	2.10211	0.40414	1.91544	0.41571	4.60E-03	8.61E-05	1.45E-05	7.84E-05	1.43E-05	4.7931E-03
520355.57	4258882.84	100166.7392	0.54498	0.21725	0.52207	0.23026	4.60E-03	2.23E-05	7.77E-06	2.14E-05	7.91E-06	4.6548E-03
520187.52	4258382.66	100126.9752	0.46278	2.18714	0.48658	2.5058	4.59E-03	1.89E-05	7.82E-05	1.99E-05	8.60E-05	4.7968E-03
520463.86	4258764.27	100122.8658	0.2941	0.19456	0.28311	0.20441	4.59E-03	1.20E-05	6.96E-06	1.16E-05	7.02E-06	4.6311E-03
520256.13	4258352.87	100102.2724	0.36753	1.08138	0.37802	1.20346	4.59E-03	1.50E-05	3.87E-05	1.55E-05	4.13E-05	4.7030E-03
520295.32	4258342.99	100070.3491	0.32768	0.78871	0.33712	0.8694	4.59E-03	1.34E-05	2.82E-05	1.38E-05	2.98E-05	4.6763E-03
520296.2	4258902.93	100040.4885	0.8014	0.24933	0.76424	0.26689	4.58E-03	3.28E-05	8.92E-06	3.13E-05	9.16E-06	4.6719E-03
520216.99	4258903.07	99766.34423	1.52518	0.34043	1.41652	0.3593	4.58E-03	6.24E-05	1.22E-05	5.80E-05	1.23E-05	4.7220E-03
520335.79	4258892.87	99569.04779	0.61787	0.22577	0.59158	0.24011	4.57E-03	2.53E-05	8.08E-06	2.42E-05	8.24E-06	4.6339E-03
520112.79	4258840.6	99549.78366	7.83442	0.67476	6.70481	0.62417	4.57E-03	3.21E-04	2.41E-05	2.75E-04	2.14E-05	5.2080E-03
520226.74	4258362.78	99446.65237	0.40209	1.42016	0.41463	1.59626	4.56E-03	1.65E-05	5.08E-05	1.70E-05	5.48E-05	4.7015E-03
520158.6	4258879.5	99427.12015	3.08084	0.4851	2.74193	0.48003	4.56E-03	1.26E-04	1.74E-05	1.12E-04	1.65E-05	4.8338E-03
520450.83	4258377.21	99387.2402	0.22394	0.30882	0.22445	0.32853	4.56E-03	9.17E-06	1.10E-05	9.19E-06	1.13E-05	4.6004E-03
520393.2	4258343.3	99321.91859	0.25289	0.42024	0.25381	0.4534	4.56E-03	1.04E-05	1.50E-05	1.04E-05	1.56E-05	4.6080E-03
520088.94	4258810.77	98905.23773	14.80654	0.80001	16.84123	0.73174	4.54E-03	6.06E-04	2.86E-05	6.90E-04	2.51E-05	5.8871E-03
520088.61	4258824.75	98787.58034	11.97909	0.7426	10.65881	0.68011	4.53E-03	4.90E-04	2.66E-05	4.36E-04	2.33E-05	5.5090E-03
520306.1	4258902.92	98708.47935	0.74899	0.24121	0.71527	0.25787	4.53E-03	3.07E-05	8.63E-06	2.93E-05	8.85E-06	4.6060E-03
520285.53	4258342.96	98604.7512	0.33495	0.85228	0.34485	0.94089	4.52E-03	1.37E-05	3.05E-05	1.41E-05	3.23E-05	4.6144E-03
520375.36	4258872.8	98579.24005	0.48174	0.20768	0.46151	0.21984	4.52E-03	1.97E-05	7.43E-06	1.89E-05	7.55E-06	4.5762E-03
520207.09	4258903.08	98325.10969	1.68687	0.35647	1.55776	0.37332	4.51E-03	6.91E-05	1.28E-05	6.38E-05	1.28E-05	4.6694E-03
520047.12	4258636.77	98308.77144	3.40868	3.22763	5.38755	2.73211	4.51E-03	1.40E-04	1.15E-04	2.21E-04	9.38E-05	5.0796E-03
520422.54	4258353.39	98308.45848	0.23607	0.35944	0.23585	0.38431	4.51E-03	9.67E-06	1.29E-05	9.66E-06	1.32E-05	4.5556E-03
520453.3	4258788.66	98245.48509	0.31359	0.19221	0.30178	0.20251	4.51E-03	1.28E-05	6.88E-06	1.24E-05	6.95E-06	4.5463E-03
520149.75	4258875.84	98159.67812	3.54914	0.51159	3.13225	0.4989	4.50E-03	1.45E-04	1.83E-05	1.28E-04	1.71E-05	4.8124E-03
520047.53	4258708.24	98153.1564	4.46991	1.43458	6.94217	1.33547	4.50E-03	1.83E-04	5.13E-05	2.84E-04	4.58E-05	5.0675E-03
520485.03	4258706.76	98123.54788	0.25708	0.19896	0.24758	0.20903	4.50E-03	1.05E-05	7.12E-06	1.01E-05	7.18E-06	4.5367E-03
520167.91	4258392.59	97976.36693	0.49244	2.85066	0.52544	3.30648	4.49E-03	2.02E-05	1.02E-04	2.15E-05	1.14E-04	4.7521E-03
520177.37	4258893.13	97752.05313	2.3831	0.4242	2.15391	0.43042	4.48E-03	9.76E-05	1.52E-05	8.82E-05	1.48E-05	4.7004E-03
520122.59	4258854.64	97660.61767	6.13487	0.61749	5.25412	0.57754	4.48E-03	2.51E-04	2.21E-05	2.15E-04	1.98E-05	4.9887E-03
520246.34	4258352.84	97576.4535	0.37436	1.18341	0.38503	1.32072	4.48E-03	1.53E-05	4.23E-05	1.58E-05	4.53E-05	4.5954E-03
520402.99	4258343.33	97479.05858	0.24611	0.39891	0.24654	0.42928	4.47E-03	1.01E-05	1.43E-05	1.01E-05	1.47E-05	4.5213E-03
520049.89	4258618.28	97427.77614	3.2211	4.48042	5.4233	3.53232	4.47E-03	1.32E-04	1.60E-04	2.22E-04	1.21E-04	5.1053E-03
520316	4258902.9	97054.46901	0.70092	0.23345	0.6701	0.2492	4.45E-03	2.87E-05	8.35E-06	2.74E-05	8.56E-06	4.5257E-03
520275.74	4258342.93	96964.02415	0.34206	0.92293	0.35204	1.02109	4.45E-03	1.40E-05	3.30E-05	1.44E-05	3.51E-05	4.5450E-03
520484.73	4258467.07	96942.34573	0.21905	0.24725	0.2167	0.26279	4.45E-03	8.97E-06	8.84E-06	8.87E-06	9.02E-06	4.4832E-03
520140.9	4258872.19	96884.88333	4.18811	0.53913	3.65181	0.5177	4.44E-03	1.71E-04	1.93E-05	1.50E-04	1.78E-05	4.8029E-03
520256.61	4258913	96780.93946	1.08535	0.28092	1.02462	0.30095	4.44E-03	4.44E-05	1.00E-05	4.20E-05	1.03E-05	4.5469E-03
520059.69	4258569.75	96770.19266	2.12571	12.82806	3.33569	6.85191	4.44E-03	8.70E-05	4.59E-04	1.37E-04	2.35E-04	5.3573E-03
520246.71	4258913.02	96640.07475	1.17725	0.29227	1.10745	0.31237	4.43E-03	4.82E-05	1.05E-05	4.53E-05	1.07E-05	4.5484E-03
520197.19	4258903.1	96583.35762	1.87886	0.37364	1.72392	0.38753	4.43E-03	7.69E-05	1.34E-05	7.06E-05	1.33E-05	4.6052E-03
520266.51	4258912.98	96565.97827	1.00328	0.27035	0.95008	0.28997	4.43E-03	4.11E-05	9.67E-06	3.89E-05	9.95E-06	4.5299E-03
520395.14	4258862.77	96475.16064	0.43106	0.19975	0.41474	0.21159	4.43E-03	1.77E-05	7.14E-06	1.70E-05	7.26E-06	4.4752E-03
520462.63	4258774.79	96469.64031	0.29787	0.19164	0.28667	0.20146	4.43E-03	1.22E-05	6.85E-06	1.17E-05	6.92E-06	4.4635E-03
520365.47	4258882.82	96389.89334	0.51261	0.20991	0.49098	0.22223	4.42E-03	2.10E-05	7.51E-06	2.01E-05	7.63E-06	4.4784E-03
520236.81	4258913.03	96202.71595	1.28187	0.30459	1.201	0.32434	4.41E-03	5.25E-05	1.09E-05	4.92E-05	1.11E-05	4.5373E-03
520429.77	4258828.42	96168.81832	0.35875	0.19166	0.34439	0.20294	4.41E-03	1.47E-05	6.86E-06	1.41E-05	6.97E-06	4.4547E-03
520276.41	4258912.97	96131.87099	0.93106	0.26073	0.88399	0.27971	4.41E-03	3.81E-05	9.33E-06	3.62E-05	9.60E-06	4.5036E-03
520099.14	4258472.38	96100.00321	0.81096	13.82781	0.89932	15.73937	4.41E-03	3.32E-05	4.95E-04	3.68E-05	5.40E-04	5.5139E-03
520459.61	4258380.96	96049.70161	0.21926	0.29533	0.21967	0.31414	4.41E-03	8.98E-06	1.06E-05	8.99E-06	1.08E-05	4.4459E-03
520103.68	4258836.84	96035.98539	10.23108	0.69487	8.8498	0.63807	4.41E-03	4.19E-04	2.49E-05	3.62E-04	2.19E-05	5.2340E-03
520128.66	4258422.47	95988.43063	0.57589	0.74265	0.62063	0.9111	4.40E-03	2.36E-05	2.05E-04	2.54E-05	2.37E-04	4.8954E-03
520197.34	4258372.69	95982.38955	0.4366	1.9531	0.45696	2.22342	4.40E-03	1.79E-05	6.99E-05	1.87E-05	7.63E-05	4.5863E-03
520468.95	4258394.98	95962.84011	0.21646	0.27936	0.21636	0.29751	4.40E-03	8.86E-06	9.99E-06	8.86E-06	1.02E-05	4.4405E-03
520216.95	4258362.75	95908.00982	0.408	1.57452	0.42245	1.77681	4.40E-03	1.67E-05	5.63E-05	1.73E-05	6.10E-05	4.5154E-03
520226.91	4258913.05	95462.97781	1.40215	0.31791	1.3077	0.33681	4.38E-03	5.74E-05	1.14E-05	5.35E-05	1.16E-05	4.5135E-03
520286.31	4258912.95	95452.19103	0.86655	0.25185	0.82453	0.27004	4.38E-03	3.55E-05	9.01E-06	3.38E-05	9.27E-06	4.4667E-03
520325.9	4258902.89	95330.93257	0.65834	0.2264	0.62983	0.24133	4.37E-03	2.70E-05	8.10E-06	2.58E-05	8.29E-06	4.4427E-03
520412.78	4258343.36	95268.7575	0.23951	0.37947	0.23961	0.40725	4.37E-03	9.81E-06	1.36E-05	9.81E-06	1.40E-05	4.4179E-03
520138.48	4258412.5	95164.07803	0.54639	4.68896	0.58872	5.55751	4.37E-03	2.24E-05	1.68E-04	2.41E-05	1.91E-04	4.7709E-03
520118.84	4258432.44	95079.08181	0.60527	7.26911	0.65297	8.84459	4.36E-03	2.48E-05	2.60E-04	2.67E-05	3.04E-04	4.9772E-03
520265.95	4258342.9	95033.395	0.34881	1.00283	0.35877	1.112	4.36E-03	1.43E-05	3.59E-05	1.47E-05	3.82E-05	4.4630E-03
520432.33	4258353.42	94959.85164	0.22968	0.34268	0.22947	0.36555	4.36E-03	9.40E-06	1.23E-05	9.40E-06	1.25E-05	4.4002E-03
520167.47	4258893.15	94939.90425	2.72872	0.44463	2.44473	0.4442	4.36E-03	1.12E-04	1.59E-05	1.00E-04	1.52E-05	4.5986E-03
520090.01	4258821.21	94777.94513	15.57065	0.75393	15.80948	0.69034	4.35E-03	6.38E-04	2.70E-05	6.47E-04	2.37E-05	5.6837E-03
520113.61	4258850.93	94725.20389	7.6777	0.64018	6.55437	0.59239	4.35E-03	3.14E-04	2.29E-05	2.68E-04	2.03E-05	4

520104.64	4258847.23	91579.267	9.91839	0.65803	8.54143	0.60481	4.20E-03	4.06E-04	2.35E-05	3.50E-04	2.08E-05	5.0016E-03
520486.85	4258726.34	91411.10498	0.25897	0.19266	0.2491	0.20187	4.19E-03	1.06E-05	6.89E-06	1.02E-05	6.93E-06	4.2284E-03
520256.63	4258923	91396.63196	1.09222	0.27398	1.03056	0.2932	4.19E-03	4.47E-05	9.80E-06	4.22E-05	1.01E-05	4.2999E-03
520197.21	4258913.1	91393.22591	1.89496	0.36365	1.73707	0.37581	4.19E-03	7.76E-05	1.30E-05	7.11E-05	1.29E-05	4.3676E-03
520109.02	4258442.41	91391.429	0.63348	9.64666	0.68592	11.70149	4.19E-03	2.59E-05	3.45E-04	2.81E-05	4.02E-04	4.9937E-03
520459.32	4258370.83	91338.06871	0.21706	0.29842	0.21748	0.31699	4.19E-03	8.89E-06	1.07E-05	8.90E-06	1.09E-05	4.2298E-03
520488.6	4258472.02	91304.88749	0.21703	0.2424	0.2145	0.25759	4.19E-03	8.89E-06	8.67E-06	8.78E-06	8.84E-06	4.2241E-03
520246.73	4258923.02	91279.6848	1.18471	0.28502	1.11386	0.30415	4.19E-03	4.85E-05	1.02E-05	4.56E-05	1.04E-05	4.3025E-03
520266.53	4258922.98	91214.15312	1.01004	0.26375	0.956	0.28273	4.18E-03	4.14E-05	9.43E-06	3.91E-05	9.71E-06	4.2844E-03
520187.55	4258372.66	91182.60501	0.43965	2.20928	0.46427	2.52605	4.18E-03	1.80E-05	7.90E-05	1.90E-05	8.67E-05	4.3860E-03
520040.59	4258691.51	91174.47535	3.44682	1.60192	4.93618	1.47694	4.18E-03	1.41E-04	5.73E-05	2.02E-04	5.07E-05	4.6341E-03
520429.32	4258838.61	91109.0773	0.36149	0.18826	0.34661	0.19931	4.18E-03	1.48E-05	6.73E-06	1.42E-05	6.84E-06	4.2225E-03
520158.12	4258392.56	91090.32943	0.49052	3.13074	0.5261	3.88495	4.18E-03	2.01E-05	1.19E-04	2.15E-05	1.33E-04	4.4732E-03
520365.49	4258892.82	90964.66024	0.51628	0.20555	0.49419	0.21766	4.17E-03	2.11E-05	7.35E-06	2.02E-05	7.47E-06	4.2295E-03
520236.83	4258923.03	90917.19894	1.29041	0.29701	1.20831	0.31563	4.17E-03	5.28E-05	1.06E-05	4.95E-05	1.08E-05	4.2949E-03
520276.43	4258922.97	90754.39344	0.93672	0.25428	0.88898	0.27276	4.16E-03	3.84E-05	9.10E-06	3.64E-05	9.36E-06	4.2568E-03
520471.08	4258771.29	90502.74106	0.28623	0.18789	0.27533	0.19724	4.15E-03	1.17E-05	6.72E-06	1.13E-05	6.77E-06	4.1886E-03
520246.37	4258342.84	90414.12545	0.36117	1.19492	0.37152	1.33295	4.15E-03	1.48E-05	4.27E-05	1.52E-05	4.58E-05	4.2665E-03
520344.32	4258323.15	90306.55992	0.27797	0.57035	0.28482	0.62162	4.14E-03	1.14E-05	2.04E-05	1.17E-05	2.13E-05	4.2079E-03
520354.11	4258323.18	90305.3834	0.27136	0.53591	0.27733	0.58313	4.14E-03	1.11E-05	1.92E-05	1.14E-05	2.00E-05	4.2047E-03
520226.93	4258923.05	90214.92463	1.41082	0.30982	1.31505	0.32744	4.14E-03	5.78E-05	1.11E-05	5.38E-05	1.12E-05	4.2728E-03
520045.8	4258728.19	90190.3446	4.30977	1.20126	6.51248	1.12936	4.14E-03	1.76E-04	4.30E-05	2.67E-04	3.88E-05	4.6626E-03
520477.93	4258398.82	90168.37894	0.21157	0.26766	0.21111	0.28486	4.14E-03	8.66E-06	9.57E-06	8.64E-06	9.78E-06	4.1734E-03
520482.39	4258410.74	90164.668	0.21104	0.26014	0.20999	0.27677	4.14E-03	8.64E-06	9.30E-06	8.60E-06	9.50E-06	4.1726E-03
520114.34	4258861.23	90160.59153	7.54222	0.60858	6.42382	0.56332	4.14E-03	3.09E-04	2.18E-05	2.63E-04	1.93E-05	4.7493E-03
520325.92	4258912.89	90075.15973	0.66334	0.22124	0.63427	0.23605	4.13E-03	2.72E-05	7.91E-06	2.60E-05	8.10E-06	4.2016E-03
520334.53	4258323.11	90069.56293	0.28457	0.6084	0.29223	0.66411	4.13E-03	1.17E-05	2.18E-05	1.20E-05	2.28E-05	4.2004E-03
520286.33	4258922.95	90048.57052	0.87107	0.24553	0.8285	0.26332	4.13E-03	3.57E-05	8.78E-06	3.39E-05	9.04E-06	4.2187E-03
520490.45	4258717.75	90047.13237	0.25353	0.19258	0.24382	0.20195	4.13E-03	1.04E-05	6.89E-06	9.98E-06	6.93E-06	4.1654E-03
520432.36	4258343.42	89740.79249	0.22688	0.34492	0.22667	0.36818	4.12E-03	9.29E-06	1.23E-05	9.28E-06	1.26E-05	4.1607E-03
520167.49	4258903.15	89736.84271	2.7367	0.42994	2.45142	0.428	4.12E-03	1.12E-04	1.54E-05	1.00E-04	1.47E-05	4.3594E-03
520324.75	4258323.08	89552.95878	0.29103	0.65064	0.29948	0.71103	4.11E-03	1.19E-05	2.33E-05	1.23E-05	2.44E-05	4.1785E-03
520187.31	4258913.12	89485.2593	2.12464	0.38069	1.93382	0.38874	4.11E-03	8.70E-05	1.36E-05	7.92E-05	1.33E-05	4.2985E-03
520217.02	4258923.07	89284.40069	1.55144	0.33263	1.43865	0.33967	4.10E-03	6.35E-05	1.16E-05	5.89E-05	1.17E-05	4.2419E-03
520403.52	4258869.31	89246.1977	0.41708	0.19247	0.39907	0.20369	4.09E-03	1.71E-05	6.88E-06	1.63E-05	6.99E-06	4.1417E-03
520450.6	4258357.08	89231.29642	0.21908	0.31417	0.21921	0.33373	4.09E-03	8.97E-06	1.12E-05	8.98E-06	1.15E-05	4.1344E-03
520385.27	4258882.79	89160.50774	0.45927	0.19732	0.43942	0.2087	4.09E-03	1.88E-05	7.06E-06	1.80E-05	7.16E-06	4.1415E-03
520296.23	4258922.93	89152.05118	0.81224	0.23743	0.77392	0.25444	4.09E-03	3.33E-05	8.49E-06	3.17E-05	8.74E-06	4.1714E-03
520420.49	4258852.28	89090.57918	0.37957	0.1884	0.36345	0.19948	4.09E-03	1.55E-05	6.74E-06	1.49E-05	6.85E-06	4.1313E-03
520059.65	4258560.06	89049.42614	1.77752	13.22401	2.51946	7.13694	4.09E-03	7.28E-05	4.73E-04	1.03E-04	2.45E-04	4.9794E-03
520158.83	4258899.58	88988.80677	3.10129	0.45178	2.75656	0.44394	4.08E-03	1.27E-04	1.62E-05	1.13E-04	1.52E-05	4.3539E-03
520355.6	4258902.84	88837.2435	0.55113	0.2074	0.52743	0.22004	4.08E-03	2.26E-05	7.42E-06	2.16E-05	7.55E-06	4.1348E-03
520167.94	4258382.59	88598.34995	0.46478	2.87664	0.49659	3.3318	4.06E-03	1.90E-05	1.03E-04	2.03E-05	1.14E-04	4.3214E-03
520314.96	4258323.05	88545.19382	0.2972	0.69777	0.30643	0.76297	4.06E-03	1.22E-05	2.50E-05	1.25E-05	2.62E-05	4.1382E-03
520095.67	4258843.53	88450.65162	11.81814	0.67038	11.92996	0.61488	4.06E-03	5.40E-04	2.40E-05	4.88E-04	2.11E-05	5.1313E-03
520216.98	4258352.75	88323.72354	0.39123	1.58806	0.40619	1.79221	4.05E-03	1.60E-05	5.68E-05	1.66E-05	6.15E-05	4.2031E-03
520494.05	4258709.16	88318.59411	0.24823	0.19246	0.23878	0.202	4.05E-03	1.02E-05	6.88E-06	9.78E-06	6.93E-06	4.0856E-03
520385.47	4258829.33	88286.42159	15.98889	0.71469	20.56115	0.65689	4.05E-03	6.55E-04	2.56E-05	8.42E-04	2.26E-05	5.5950E-03
520335.82	4258912.87	88245.9786	0.62385	0.21475	0.59673	0.22877	4.05E-03	2.55E-05	7.68E-06	2.44E-05	7.85E-06	4.1141E-03
520150.18	4258896	88098.71859	3.56582	0.47428	3.14053	0.45972	4.04E-03	1.46E-04	1.70E-05	1.29E-04	1.58E-05	4.3491E-03
520042.06	4258719.18	88079.22885	3.81068	1.24618	5.52515	1.18798	4.04E-03	1.56E-04	4.53E-05	2.26E-04	4.08E-05	4.5092E-03
520306.13	4258922.92	88011.20841	0.75927	0.22988	0.72444	0.24607	4.04E-03	3.11E-05	8.22E-06	2.97E-05	8.45E-06	4.1152E-03
520207.12	4258923.08	88004.07784	1.71365	0.3382	1.58003	0.35194	4.04E-03	7.02E-05	1.21E-05	6.47E-05	1.21E-05	4.1965E-03
520467.94	4258374.52	87897.41161	0.21265	0.28581	0.21301	0.30356	4.03E-03	8.71E-06	1.02E-05	8.72E-06	1.04E-05	4.0706E-03
520197.37	4258362.69	87841.00388	0.41632	1.97076	0.43748	2.2416	4.03E-03	1.70E-05	7.05E-05	1.79E-05	7.70E-05	4.2124E-03
520305.17	4258323.02	87817.86469	0.30366	0.74945	0.31313	0.82111	4.03E-03	1.24E-05	2.68E-05	1.28E-05	2.82E-05	4.1092E-03
520375.39	4258892.8	87732.05128	0.48809	0.19941	0.46695	0.21097	4.02E-03	2.00E-05	7.13E-06	1.91E-05	7.24E-06	4.0785E-03
520040.81	4258598.89	87562.19374	2.42919	5.83157	3.9813	4.20921	4.02E-03	9.95E-05	2.09E-04	1.63E-04	1.45E-04	4.6328E-03
520236.59	4258342.81	87547.55459	0.36642	1.31245	0.37799	1.46802	4.02E-03	1.50E-05	4.69E-05	1.55E-05	5.04E-05	4.1443E-03
520447.1	4258821.24	87541.10433	0.32898	0.18428	0.31596	0.19464	4.02E-03	1.35E-05	6.59E-06	1.29E-05	6.68E-06	4.0559E-03
520491.66	4258459.42	87478.20388	0.21308	0.24206	0.21086	0.2569	4.01E-03	8.72E-06	8.66E-06	8.63E-06	8.82E-06	4.0482E-03
520177.4	4258913.13	87409.09588	2.40783	0.39855	2.17371	0.40135	4.01E-03	9.86E-05	1.43E-05	8.90E-05	1.38E-05	4.2258E-03
520105.49	4258857.57	87372.27633	9.66473	0.62454	8.28388	0.57452	4.01E-03	3.96E-04	2.23E-05	3.39E-04	1.97E-05	4.7854E-03
520469.94	4258781.77	87327.94343	0.28969	0.18498	0.27853	0.19432	4.01E-03	1.19E-05	6.62E-06	1.14E-05	6.67E-06	4.0443E-03
520437.87	4258835.07	87317.46788	0.34624	0.18461	0.33204	0.19528	4.01E-03	1.42E-05	6.60E-06	1.36E-05	6.70E-06	4.0470E-03
520141.52	4258892.43	87086.77204	4.17626	0.49676	3.63679	0.47496	4.00E-03	1.71E-04	1.78E-05	1.49E-04	1.63E-05	4.3493E-03
520477.17	4258388.48	87075.35925	0.20999	0.27079	0.20991	0.28797	3.99E-03	8.60E-06	9.69E-06	8.59E-06	9.89E-06	4.0316E-03
520459.09	4258360.72	86962.16101	0.21484	0.30114	0.21509	0.3196	3.99E-03	8.80E-06	1.08E-05	8.81E-06	1.10E-05	4.0290E-03
520411.88	4258865.85	86891.71084	0.39885	0.1887	0.38158	0.19969	3.99E-03	1.63E-05	6.75E-06	1.56E-05	6.86E-06	4.0320E-03
520492.07	4258481.14	86835.28691	0.21587	0.23763	0.21301	0.25246	3.98E-03	8.84E-06	8.50E-06	8.72E-06	8.67E-06	4.0186E-03
520295.38	4258322.99	86753.41351	0.30983	0.80705	0.31937	0.88589	3.98E-03	1.27E-05	2.89E-05	1.31E-05	3.04E-05	4.0651E-03
520316.03	4258922.9	86716.32667	0.71144	0.22283	0.67948	0.23821	3.98E-03	2.91E-05	7.97E-06	2.78E-05	8.18E-06	4.0515E-03
520395.17	4258882.77	86698.81126	0.43949	0.19317	0.42076	0.20419	3.98E-03	1.80E-05	6.91E-06	1.72E-05	7.01E-06	4.0267E-03
520197.22	4258923.1	86477.99166	1.90566	0.35362	1.74591	0.36421	3.97E-03	7.80E-05	1.26E-05	7.15E-05	1.25E-05	4.1421E-03
520428.93	4258848.78	86388.47358	0.36403	0.18499	0.34867	0.19577	3.96E-03	1.49E-05	6.62E-06	1.43E-05	6.72E-06	4.0059E-03
520037.12	4258683.15	86313.46727	3.00815	1.69355	4.21178	1.54866	3.96E-03	1.23E-04	6.06E-05	1.72E-04	5.32E-05	4.3693E-03
520497.64	4258700.57	86271.46949	0.2431	0.19251	0.23404	0.20212	3.96E-03	9.95E-06	6.89E-06	9.58E-06	6.94E-06	3.9913E-03
520037.12	4258673.87	86096.63812	2.90821	1.85608	4.08675	1.68053	3.95E-03	1.19E-04	6.64E-05	1.67E-04	5.77E-05	4.3604E-03
520256.65	4258933	86042.7521	1.00249	0.26659	0.13055	0.03055	3.95E-03	4.47E-05	9.54E-06	4.22E-05	9.79E-06	4.0537E-03
520057.47	4258780.46	86029.12259	7.2075	0.87184	13.11518	0.82308	3.95E-03	2.95E-04	3.12E-05	5.37E-04	2.83E-05	4.8384E-03
520177.76	4258372.63	86025.76706	0.44063	2.52017	0.46895	2.89536	3.95E-03	1.80E-05	9.01E-05	1.92E-05	9.94E-05	4.1735E-03
520246.74	4258933.02	85910.82024	1.18414	0.27722	1.11313	0.29545	3.94E-03	4.85E-05	9.92E-06	4.56E-05	1.01E-05	4.0555E-03
520266.55	4258932.98	85866.56639	1.01048	0.25663	0.95613	0.27498	3.94E-03	4.14E-05	9.18E-06	3.91E-05	9.44E-06	4.0385E-03
520114.98	4258871.48	85837.87886	7.42133	0.57961	6.31078	0.53665	3.94E-03	3.04E-04	2.07E-05	2.58E-04	1.84E-05	4.5395E-03
520365.5	4258902.82	85798.09204	0.51889	0.20095	0.49639	0.21286	3.94E-03	2.12E-05	7.19E-06	2.03E-05	7.31E-06	3.9923E-03
520053.81	4258771.61	85731.45593	6.21284	0.90891	10.19945	0.86073	3.93E-03	2.54E-04	3.25E-05	4.18E-04	2.95E-05	4.6672E-03
520236.84	4258933.03	85622.1762	1.29024	0.28892	1.20801	0.30652	3.93E-03	5.28E-05	1.03E-05	4.95E-05	1.05E-05	4.0513E-03
520285.59	4258322.96	85538.141	0.31585	0.87097	0.3252	0.95849	3.92E-03	1.29E-05	3.12E-05	1.33E-05	3.29E-05	4.0146E-03
520276.45	4258932.97	85463.26966	0.93767	0.24747	0.88956	0.26544	3.92E-03	3.84E-05	8.85E-06	3.64E-05	9.11E-06	4.0137E-03
520038.33	4258710.17	85274.87608	3.35222	1.33676	4.70555	1.24884	3.91E-03	1.37E-04	4.78E-05	1.93E-04	4.29E-05	4.3329E-03
520325.93	4258922.89	85245.59613	0.66805	0.21621	0.63846	0.23081	3.91E-03	2.74E-05	7.73E-06	2.61E-05	7.92E-06	3.9801E-03
520354.14	4258313.18	85182.76945	0.26637	0.54042	0.27281	0.58796	3.91E-03	1.09E-05	1.93E-05	1.12E-05	2.02E-05	3.9696E-03
520050.14	4258762.77	85136.84696	5.39066	0.94867	8.26461	0.90042	3.91E-03	2.21E-04	3.39E-05	3.38E-04	3.09E-05	4.5299E-03
520037.12	4258664.6	85112.04839	2.79532	2.04192	3.94425	1.82776	3.90E-03	1.14E-04	7.30E-05	1.61E-04	6.27E-05	4.3165E-03
520167.5	4258913.15	85079.41046	2.7555	0.41645	2.4657	0.41302	3.90E-03	1.13E-04	1.49E-05	1.01E-04	1.42E-05	4.1461E-03
520460.08	4258805.86	85022.84143	0.30734	0.18211	0.29512	0.19189	3.90E-03	1.26E-05	6.51E-06	1.21E-05	6.59E-06	3.9385E-03
520363.93	4258313.21	85003.97983	0.26019	0.50869	0.26584	0.55255	3.90E-03	1.07E-05	1.82E-05	1.09E-05	1.90E-05	3.9585E-03
520344.35	4258313.15	84955.34521	0.27238	0.57569	0.2797	0.62693	3.90E-03	1.12E-05	2.06E-05	1.15E-05	2.15E-05	3.9623E-03
520226.94	4258933.05	84908.49075	1.40791	0.30099	1.3125	0.31752	3.90E-03	5.76E-05	1.08E-05	5.37E-05	1.09E-05	4.0285E-03
520128.69	4258412.47	84869.28826	0.53388	5.78203	0.57204	6.93622	3.89E-03	2.19E-05	2.07E-04	2.34E-05	2.38E-04	4.3839E-03
520086.7	4258839.83	84846.84843	15.5131	0.67659	18.79702	0.62227	3.89E-03	6.35E-04	2.42E-05	7.70E-04	2.14E-05	5.3430E-03
520483.06	4258759.36	84829.00194	0.26959	0.18473	0.25902	0.19354	3.89E-03	1.10E-05	6.61E-06	1.06E-05	6.64E-06	3.9267E-03
520420.24	4258862.39	84813.92287	0.38247	0.18536	0.36599	0.19612	3.89E-03	1.57E-05	6.63E-06	1.50E-05	6.73E-06	3.9351E-03
520286.35	4258932.95	84772.50759	0.8717	0.23888	0.82879	0.25625	3.89E-03	3.57E-05	8.54E-06	3.39E-05	8.80E-06	3.9762E-03
520187.32	4258923.12	84741.35392	2.13655	0.36982	1.94354	0.37629	3.89E-03	8.75E-05	1.32E-05	7.96E-05	1.29E-05	4.0810E-03
520138.51	4258402.5	84689.81628	0.50906	4.72078	0.54585	5.58806	3.89E-03	2.08E-05	1.69E-04	2.23E-05	1.92E-04	4.2893E-03
520207.19	4258352.72	84675.16876	0.39503	1.7698	0.41307	2.00566	3.88E-03	1.62E-05	6.33E-05	1.69E-05	6.89E-05	4.0500E-03
520096.64	4258853.92	84649.24094	12.79461	0.63582	11.3963	0.58375	3.88E-03	5.24E-04	2.27E-05	4.67E-04	2.00E-05	4.9168E-03
520226.8	4258342.78	84608.7405	0.37117	1.44683	0.38455	1.62425	3.88E-03	1.52E-05	5.18E-05	1.57E-05	5.58E-05	4.0201E-03
520486.59	4258750.92	84584.79065	0.26399	0.18544	0.25367	0.19413	3.88E-03	1.08E-05	6.63E-06	1.04E-05	6.66E-06	3.9151E-03
520334.57	4258313.11	84577.71676	0.27838	0.61442	0.28644	0.66981	3.88E-03	1.14E-05	2.20E-05	1.17E-05	2.30E-05	3.9484E-03
520373.72	4258313.24	84481.01086	0.25395	0.47998	0.25888	0.52032	3.88E-03	1.04E-05	1.72E-05	1.06E-05	1.79E-05	3.9319E-03
520158.45	4258909.41	84423.11546	3.14453	0.43791	2.78975	0.42853	3.87E-03	1.29E-04	1.57E-05	1.14E-04	1.47E-05	4.1465E-03
520385.29	4258892.79	84420.26823	0.46258	0.19364	0.44224	0.20474	3.87E-03	1.89E-05	6.93E-06	1.81E-05	7.03E-06	3.9240E-03
520046.47	4258753.92	84226.81337	4.706	0.99328	6.88273	0.94258	3.86E-03	1.93E-04	3.55E-05	2.82E-04	3.24E-05	4.4065E-03
520217.04	4258933.07	84164.13002	1.55042	0.31456	1.43789	0.32938	3.86E-03	6.35E-05	1.13E-05	5.89E-05	1.13E-05	4.0062E-03
520490.12	4258742.49	84094.04676	0.25851	0.18602	0.24843	0.19465	3.86E-03	1.06E-05	6.65E-06	1.02E-05	6.68E-06	3.8922E-03
520467.58	4258364.35	84072.84981	0.21063	0.28877	0.21095	0.30631	3.86E-03	8.62E-06	1.03E-05	8.64E-06	1.05E-05	3.8952E-03
520324.78	4258313.08	84043.90616	0.28434	0.65718	0.29295	0.71726	3.86E-03	1.16E-05	2.35E-05	1.20E-05	2.46E-05	3.9275E-03
520469	4258792.16	84036.50388	0.29284	0.18196	0.28137	0.19129	3.86E-03	1.20E-05	6.51E-06	1.15E-05	6.57E-06	3.8920E-03
520296.25	4258932.93	83924.57811	0.81299	0.21103	0.77432	0.24769	3.85E-03	3.33E-05	8.26E-06	3.17E-05	8.50E-06	3.9321E-03
520501.24	4258691.98	83912.43596	0.23812	0.19253	0.22946	0.20211	3.85E-03	9.75E-06	6.89E-06	9.40E-06	6.94E-06	3.8827E-03
520486.91	4258402.66	83895.79415	0.20675	0.25673	0.2059	0.27297	3.85E-03	8.47E-06	9.18E-06	8.43E-06	9.37E-06	3.8844E-03
520476.56	4258378.21	83890.01941	0.20826	0.27413	0.20848	0.2911	3.85E-03	8.53E-06	9.81E-06	8.54E-06	9.99E-06	3.8856E-03
520275.8	4258322.93	83879.73668	0.32137	0.94295	0.33071	1.03988	3.85E-03	1.32E-05	3.37E-05	1.35E-05	3.57E-05	3.9444E-03
520355.62	4258912.84	83849.80489	0.55374	0.20256	0.52963	0.21506	3.85E-03	2.27E-05	7.25E-06	2.17E-05	7.38E-06	3.9059E-03
520383.51	4258313.27	83845.36076	0.24786	0.45358	0.25198	0.49083	3.85E-03	1.01E-05	1.62E-05	1.03E-05	1.69E-05	3.9002E-03
520062.79	4258799.98	83784.65051	9.1055	0.78993	17.2231	0.74233	3.84E-03	3.73E-04	2.83E-05	7.05E-04	2.55E-05	4.9756E-03
520118.87	4258422.44	83548.15397	0.55801	7.30821	0.59824	8.88098	3.83E-03	2.28E-05	2.61E-04	2.45E-05	3.05E-04	4.4467E-03
520446.42	4258831.53	83485.86277	0.33184	0.18118	0.31839	0.19143	3.83E-03	1.36E-05	6.48E-06	1.30E-05	6.57E-06	3.8698E-03
520149.41	4258905.68	83439.71275	3.62542	0.45927	3.18866	0.44337	3.83E-03	1.48E-04	1.64E-05	1.31E-04	1.52E-05	4.1387E-03
520187.58	4258362.66	83355.63517	0.41815	2.22831	0.44301	2.54502	3.82E-03	1.71E-05	7.97E-05	1.81E-05	8.74E-05	4.0265E-03
520037.12	4258655.32	83343.36916	2.66772	2.25418	3.78072	1.99134	3.82E-03	1.09E-04	8.06E-05	1.55E-04	6.84E-05	4.2367E-03
520314.99	4258313.05	83342.88378	0.29021	0.70441	0.29916	0.76989	3.82E-03	1.19E-05	2.52E-05	1.22E-05	2.64E-05	3.8994E-03
520493.65	4258734.05	83340.7498	0.25318	0.18641	0.24332	0.19506	3.82E-03	1.04E-05	6.67E-06	9.96E-06	6.70E-06	3.8572E-03
520099.2	4258452.38	83321.50609	0.65953	13.82893	0.72015	15.83704	3.82E-03	2.70E-05	4.95E-04	2.95E-05	5.44E-04	4.9175E-03
520106.23	4258867.87	83315.69847	9.42837	0.59373	8.05927	0.54667	3.82E-03	3.86E-04	2.12E-05	3.30E-04	1.88E-05	4.5784E-03
520495	4258468.18	83231.41901	0.21203	0.23691	0.20952	0.2515	3.82E-03	8.68E-06	8.47E-06	8.58E-06	8.63E-06	3.8529E-03
520455.76	4258817.66	83217.08052	0.31543	0.18071	0.30293	0.19061	3.82E-03	1.29E-05	6.46E-06	1.24E-05	6.54E-06	3.8562E-03
520207.14	4258933.08	83054.71724	1.71329	0.3286	1.58002	0.34105	3.81E-03	7.01E-05	1.18E-05	6.47E-05	1.17E-05	3.9687E-03
520437.38	4258845.28	83034.34485	0.34882	0.18151	0.3342	0.19196	3.81E-03	1.43E-05	6.49E-06	1.37E-05	6.59E-06	3.8505E-03
520393.3	4258313.3	83003.82002	0.24186	0.42934	0.24517	0.46378	3.81E-03	9.90E-06	1.54E-05	1.00E-05	1.59E-05	3.8593E-03
520306.15	4258932.92	82899.00474	0.76019	0.22377	0.72501	0.23967	3.80E-03	3.11E-05	8.00E-06	2.97E-05	8.23E-06	3.8803E-03
520458.9	4258350.62	82855.9088	0.2126	0.30362	0.21261	0.3221	3.80E-03	8.70E-06	1.09E-05	8.71E-06	1.11E-05	3.8406E-03
520375.41	4258902.8	82853.60398	0.49052	0.19513	0.46898	0.20646	3.80E-03	2.01E-05	6.98E-06	1.92E-05	7.09E-06	3.8545E-03
520042.8	4258745.07	82846.17439	0.07594	1.04073	5.84402	0.98707	3.80E-03	1.67E-04	3.72E-05	2.39E-04	3.39E-05	4.2781E-03
520411.74	4258875.91	82803.16042	0.40161	0.18608	0.38461	0.19664	3.80E-03	1.64E-05	6.66E-06	1.57E-05	6.75E-06	3.8444E-03
520177.42	4258923.13	82794.58077	2.41723	0.38651	2.18155	0.38786	3.80E-03	9.90E-05	1.38E-05	8.93E-05

520187.34	4258933.12	80126.97819	2.13587	0.35878	1.94382	0.36395	3.68E-03	8.75E-05	1.28E-05	7.96E-05	1.25E-05	3.8684E-03
520109.05	4258432.41	80126.01377	0.58058	9.67626	0.6247	11.73287	3.68E-03	2.38E-05	3.46E-04	2.56E-05	4.03E-04	4.4743E-03
520285.62	4258312.96	80121.11756	0.30683	0.87886	0.31559	0.9667	3.68E-03	1.26E-05	3.14E-05	1.29E-05	3.32E-05	3.7659E-03
520256.23	4258322.87	80043.96576	0.33155	1.11416	0.34147	1.23588	3.67E-03	1.36E-05	3.99E-05	1.40E-05	4.24E-05	3.7821E-03
520344.39	4258303.15	79979.58935	0.2667	0.58118	0.27436	0.63209	3.67E-03	1.09E-05	2.08E-05	1.12E-05	2.17E-05	3.7340E-03
520385.31	4258902.79	79844.22355	0.46486	0.18966	0.44413	0.20051	3.66E-03	1.90E-05	6.78E-06	1.82E-05	6.88E-06	3.7140E-03
520373.75	4258303.24	79827.35624	0.24965	0.48382	0.25515	0.52432	3.66E-03	1.02E-05	1.73E-05	1.04E-05	1.80E-05	3.7183E-03
520039.93	4258628.02	79775.93649	2.41343	3.19592	3.54716	2.66784	3.66E-03	9.88E-05	1.14E-04	1.45E-04	9.16E-05	4.1099E-03
520454.97	4258827.99	79634.16971	0.31831	0.17775	0.30546	0.18757	3.65E-03	1.30E-05	6.36E-06	1.25E-05	6.44E-06	3.6918E-03
520445.83	4258841.78	79624.06708	0.33447	0.17816	0.3206	0.18825	3.65E-03	1.37E-05	6.37E-06	1.31E-05	6.46E-06	3.6927E-03
520217.06	4258943.07	79598.74258	1.55311	0.30621	1.44023	0.31982	3.65E-03	6.36E-05	1.10E-05	5.90E-05	1.10E-05	3.7963E-03
520106.9	4258878.14	79592.53197	9.27436	0.56579	7.88558	0.52127	3.65E-03	3.80E-04	2.02E-05	3.23E-04	1.79E-05	4.3923E-03
520334.6	4258303.11	79571.2515	0.27721	0.62044	0.28043	0.67543	3.65E-03	1.11E-05	2.22E-05	1.15E-05	2.32E-05	3.7186E-03
520485.18	4258381.89	79435.61216	0.20392	0.26292	0.20387	0.27919	3.64E-03	8.35E-06	9.40E-06	8.35E-06	9.58E-06	3.6800E-03
520296.27	4258942.93	79403.39654	0.81626	0.22547	0.77708	0.24181	3.64E-03	3.34E-05	8.06E-06	3.18E-05	8.30E-06	3.7245E-03
520504.24	4258708.75	79354.08959	0.21819	0.1863	0.22894	0.19538	3.64E-03	9.75E-06	6.66E-06	9.37E-06	6.71E-06	3.6731E-03
520149.63	4258915.77	79352.06123	3.6386	0.44297	3.19633	0.4266	3.64E-03	1.49E-04	1.58E-05	1.31E-04	1.46E-05	3.9509E-03
520355.64	4258922.84	79292.56644	0.55628	0.19786	0.53174	0.21024	3.64E-03	2.28E-05	7.08E-06	2.18E-05	7.22E-06	3.6966E-03
520383.54	4258303.27	79269.90217	0.24389	0.45703	0.24861	0.49448	3.64E-03	9.99E-06	1.63E-05	1.02E-05	1.70E-05	3.6902E-03
520122.26	4258894.47	79223.38425	6.21394	0.51791	5.29762	0.48235	3.64E-03	2.54E-04	1.85E-05	2.17E-04	1.66E-05	4.1410E-03
520035.46	4258727.38	79056.73053	3.17942	1.14665	4.3631	1.08125	3.63E-03	1.30E-04	4.10E-05	1.79E-04	3.71E-05	4.0139E-03
520436.96	4258855.46	79034.08975	0.35115	0.1786	0.33628	0.18878	3.63E-03	1.44E-05	6.39E-06	1.38E-05	6.48E-06	3.6669E-03
520324.81	4258303.08	79029.16922	0.27767	0.66362	0.28623	0.72332	3.63E-03	1.14E-05	2.37E-05	1.17E-05	2.48E-05	3.6974E-03
520498.73	4258472.76	78962.63874	0.21011	0.23264	0.20742	0.24691	3.62E-03	8.60E-06	8.32E-06	8.49E-06	8.48E-06	3.6565E-03
520464.43	4258814.07	78957.92413	0.30273	0.17716	0.29053	0.18661	3.62E-03	1.24E-05	6.34E-06	1.19E-05	6.41E-06	3.6595E-03
520275.83	4258312.93	78693.36112	0.31196	0.95034	0.32056	1.04871	3.61E-03	1.28E-05	3.40E-05	1.31E-05	3.60E-05	3.7062E-03
520460.13	4258341.14	78645.5454	0.20967	0.3039	0.20955	0.3223	3.61E-03	8.58E-06	1.09E-05	8.58E-06	1.11E-05	3.6472E-03
520207.16	4258943.08	78627.4054	1.71736	0.31979	1.58363	0.33095	3.61E-03	7.03E-05	1.14E-05	6.48E-05	1.14E-05	3.7652E-03
520177.79	4258362.63	78607.96467	0.418	2.54047	0.44545	2.9151	3.61E-03	1.71E-05	9.09E-05	1.82E-05	1.00E-04	3.8327E-03
520422.66	4258313.39	78547.58632	0.22426	0.36824	0.22566	0.3951	3.60E-03	9.18E-06	1.32E-05	9.24E-06	1.36E-05	3.6488E-03
520050.47	4258787.67	78493.0757	5.58704	0.80977	8.52941	0.77145	3.60E-03	2.29E-04	2.90E-05	3.49E-04	2.65E-05	4.2345E-03
520393.33	4258303.3	78478.34033	0.23816	0.43252	0.24219	0.46715	3.60E-03	9.75E-06	1.55E-05	9.92E-06	1.60E-05	3.6516E-03
520306.17	4258942.92	78431.78803	0.76306	0.21838	0.72739	0.234	3.60E-03	3.12E-05	7.81E-06	2.98E-05	8.03E-06	3.6752E-03
520375.42	4258912.8	78394.92152	0.49293	0.19092	0.47098	0.20209	3.60E-03	2.02E-05	6.83E-06	1.93E-05	6.94E-06	3.6498E-03
520177.44	4258933.13	78330.79093	2.41362	0.37444	2.17996	0.37465	3.59E-03	9.88E-05	1.34E-05	8.93E-05	1.29E-05	3.8080E-03
520315.02	4258303.05	78316.24048	0.28301	0.71123	0.2917	0.77638	3.59E-03	1.16E-05	2.54E-05	1.19E-05	2.67E-05	3.6686E-03
520140.68	4258912.07	78280.52614	4.25323	0.4621	3.69915	0.43945	3.59E-03	1.74E-04	1.65E-05	1.51E-04	1.51E-05	3.9486E-03
520412.58	4258885.57	78250.13456	0.40134	0.18236	0.38438	0.19252	3.59E-03	1.64E-05	6.52E-06	1.57E-05	6.61E-06	3.6353E-03
520088.74	4258860.65	78206.10544	16.02295	0.60987	16.37517	0.56171	3.59E-03	6.56E-04	2.18E-05	6.70E-04	1.93E-05	4.9556E-03
520207.22	4258342.72	78147.29737	0.37809	1.78474	0.39683	2.02086	3.59E-03	1.55E-05	6.38E-05	1.62E-05	6.94E-05	3.7502E-03
520046.85	4258778.96	78054.39662	4.901	0.84193	7.12507	0.8038	3.58E-03	2.01E-04	3.01E-05	2.92E-04	2.76E-05	4.1311E-03
520246.44	4258322.84	77964.37974	0.33621	2.11648	0.34696	1.35504	3.58E-03	1.38E-05	4.35E-05	1.42E-05	4.65E-05	3.6949E-03
520037.12	4258636.77	77919.31872	2.36049	2.7619	3.37405	2.36154	3.57E-03	9.66E-05	9.88E-05	1.38E-04	8.11E-05	3.9894E-03
520428.3	4258869.05	77886.73301	0.36857	0.17885	0.3525	0.18903	3.57E-03	1.51E-05	6.40E-06	1.44E-05	6.49E-06	3.6157E-03
520475.66	4258357.8	77565.92053	0.20456	0.27989	0.20479	0.29645	3.56E-03	8.38E-06	1.00E-05	8.38E-06	1.02E-05	3.5955E-03
520395.21	4258902.77	77500.39846	0.44325	0.18545	0.42372	0.19583	3.56E-03	1.81E-05	6.63E-06	1.73E-05	6.72E-06	3.6044E-03
520197.26	4258943.1	77485.29514	1.91419	0.33419	1.7537	0.34208	3.55E-03	7.84E-05	1.20E-05	7.18E-05	1.17E-05	3.7288E-03
520305.23	4258303.02	77479.08522	0.28826	0.76367	0.29683	0.83537	3.55E-03	1.18E-05	2.73E-05	1.22E-05	2.87E-05	3.6345E-03
520507.78	4258700.32	77468.08167	0.23346	0.18628	0.22457	0.19541	3.55E-03	9.56E-06	6.66E-06	9.19E-06	6.71E-06	3.5862E-03
520098.24	4258874.57	77417.46248	12.15308	0.57499	10.5781	0.52892	3.55E-03	4.98E-04	2.06E-05	4.33E-04	1.82E-05	4.5212E-03
520403.12	4258303.33	77411.59075	0.23246	0.41009	0.23581	0.44206	3.55E-03	9.52E-06	1.47E-05	9.66E-06	1.52E-05	3.6005E-03
520030.86	4258692.16	77403.4986	2.57417	1.49019	3.46039	1.37293	3.55E-03	1.05E-04	5.33E-05	1.42E-04	4.71E-05	3.8986E-03
520495.89	4258406.5	77380.79645	0.20196	0.24645	0.20076	0.26172	3.55E-03	8.27E-06	8.82E-06	8.22E-06	8.99E-06	3.5844E-03
520043.24	4258770.25	77368.64241	4.32457	0.87654	6.06921	0.8378	3.55E-03	1.77E-04	3.14E-05	2.48E-04	2.88E-05	4.0353E-03
520113.21	4258800.74	77365.35578	7.808	0.53266	6.60339	0.49243	3.55E-03	3.20E-04	1.91E-05	2.70E-04	1.69E-05	4.1754E-03
520493.54	4258758.26	77224.65896	0.25772	0.17913	0.24735	0.18743	3.54E-03	1.06E-05	6.41E-06	1.01E-05	6.43E-06	3.5764E-03
520316.07	4258942.9	77222.23292	0.71416	0.21161	0.68139	0.22648	3.54E-03	2.92E-05	7.57E-06	2.79E-05	7.78E-06	3.6153E-03
520256.68	4258933	77145.54208	1.10197	0.25412	1.03864	0.27095	3.54E-03	4.51E-05	9.09E-06	4.25E-05	9.30E-06	3.6453E-03
520266.58	4258952.98	77040.60969	1.02017	0.24479	0.96443	0.26176	3.53E-03	4.18E-05	8.76E-06	3.95E-05	8.99E-06	3.6335E-03
520246.78	4258953.02	77033.96563	1.19408	0.26413	1.1216	0.2805	3.53E-03	4.89E-05	9.45E-06	4.59E-05	9.63E-06	3.6481E-03
520266.05	4258312.9	76944.84649	0.31663	1.03088	0.32552	1.1411	3.53E-03	1.30E-05	3.69E-05	1.33E-05	3.92E-05	3.6124E-03
520498.55	4258417.66	76927.8609	0.20218	0.24199	0.2006	0.25678	3.53E-03	8.28E-06	8.66E-06	8.21E-06	8.82E-06	3.5633E-03
520484.55	4258371.61	76913.90397	0.2023	0.26598	0.20249	0.28205	3.53E-03	8.28E-06	9.51E-06	8.29E-06	9.68E-06	3.5644E-03
520497.01	4258749.96	76854.22454	0.25258	0.17974	0.24242	0.18795	3.53E-03	1.03E-05	6.43E-06	9.93E-06	6.45E-06	3.5591E-03
520365.54	4258922.82	76842.902	0.52433	0.19216	0.50096	0.20386	3.53E-03	2.15E-05	6.87E-06	2.05E-05	7.00E-06	3.5813E-03
520236.88	4258953.03	76756.58558	1.2998	0.27496	1.21615	0.29049	3.52E-03	5.32E-05	9.83E-06	4.98E-05	9.97E-06	3.6443E-03
520055.61	4258807.01	76755.09214	6.85081	0.7368	11.62339	0.6997	3.52E-03	2.81E-04	2.64E-05	4.76E-04	2.40E-05	4.3182E-03
520276.48	4258952.97	76682.1285	0.94657	0.23605	0.89719	0.2529	3.52E-03	3.88E-05	8.44E-06	3.67E-05	8.68E-06	3.6106E-03
520049.73	4258579.49	76635.26388	1.80328	6.83525	2.68075	4.70097	3.52E-03	7.38E-05	2.44E-04	1.10E-04	1.61E-04	4.1053E-03
520476.32	4258709.14	76608.81114	0.28475	0.17575	0.27333	0.18465	3.51E-03	1.17E-05	6.29E-06	1.12E-05	6.34E-06	3.5497E-03
520187.61	4258352.66	76567.33172	0.39821	2.24465	0.42266	2.56378	3.51E-03	1.63E-05	8.03E-05	1.73E-05	8.80E-05	3.7147E-03
520432.45	4258313.42	76546.89046	0.21865	0.35085	0.21953	0.37555	3.51E-03	8.95E-06	1.25E-05	8.99E-06	1.29E-05	3.5552E-03
520031.79	4258718.53	76520.60235	2.82848	1.20472	3.79988	1.13079	3.51E-03	1.16E-04	4.31E-05	1.56E-04	3.88E-05	3.8639E-03
520167.54	4258933.15	76446.35243	2.76438	1.39035	2.47459	0.38475	3.51E-03	1.13E-04	1.40E-05	1.01E-04	1.32E-05	3.7489E-03
520039.63	4258761.54	76401.44978	3.83276	0.91431	5.24334	0.87365	3.51E-03	1.57E-04	3.27E-05	2.15E-04	3.00E-05	3.9395E-03
520469.11	4258344.98	76399.46786	0.20551	0.29094	0.20546	0.30814	3.51E-03	8.41E-06	1.04E-05	8.41E-06	1.06E-05	3.5429E-03
520295.44	4258302.99	76388.51946	0.29324	0.82185	0.30166	0.90105	3.50E-03	1.20E-05	2.94E-05	1.24E-05	3.09E-05	3.5892E-03
520494.72	4258395.99	76276.86134	0.2009	0.24965	0.20013	0.26514	3.50E-03	8.23E-06	8.93E-06	8.19E-06	9.10E-06	3.5339E-03
520226.98	4258953.05	76237.01047	1.42038	0.28643	1.3232	0.30069	3.50E-03	5.82E-05	1.02E-05	5.42E-05	1.03E-05	3.6305E-03
520454.28	4258838.28	76180.19624	0.32097	0.17484	0.30774	0.18455	3.50E-03	1.31E-05	6.25E-06	1.26E-05	6.34E-06	3.5333E-03
520412.91	4258303.36	76172.2929	0.22689	0.38932	0.22953	0.4189	3.49E-03	9.29E-06	1.39E-05	9.40E-06	1.44E-05	3.5416E-03
520286.38	4258952.95	76092.47681	0.88012	0.22789	0.83602	0.2444	3.49E-03	3.60E-05	8.15E-06	3.42E-05	8.39E-06	3.5778E-03
520138.54	4258392.5	76027.56458	0.47575	4.7484	0.50073	5.62239	3.49E-03	1.95E-05	1.70E-04	2.08E-05	1.93E-04	3.8911E-03
520325.97	4258942.89	76017.28085	0.67117	0.20558	0.64071	0.21975	3.49E-03	2.75E-05	7.35E-06	2.62E-05	7.54E-06	3.5561E-03
520158.68	4258929.5	76001.6616	3.14859	0.40883	2.79418	0.3979	3.49E-03	1.29E-04	1.46E-05	1.14E-04	1.37E-05	3.7584E-03
520403.81	4258899.21	75992.59783	0.42272	0.18223	0.40417	0.19233	3.49E-03	1.73E-05	6.52E-06	1.66E-05	6.60E-06	3.5334E-03
520187.36	4258943.12	75973.73844	2.14094	0.34858	1.94853	0.35246	3.49E-03	8.77E-05	1.25E-05	7.98E-05	1.21E-05	3.6775E-03
520485.32	4258852	75969.32815	0.33688	0.17524	0.32266	0.18512	3.48E-03	1.38E-05	6.27E-06	1.32E-05	6.36E-06	3.5250E-03
520501.93	4258460.52	75951.76887	0.20639	0.23203	0.20399	0.24597	3.48E-03	8.45E-06	8.30E-06	8.35E-06	8.44E-06	3.5181E-03
520421.28	4258881.97	75911.09358	0.3838	0.17823	0.36659	0.18829	3.48E-03	1.57E-05	6.38E-06	1.50E-05	6.46E-06	3.5262E-03
520463.52	4258824.45	75831.00993	0.3056	0.1744	0.29321	0.1838	3.48E-03	1.25E-05	6.24E-06	1.20E-05	6.31E-06	3.5160E-03
520363.99	4258293.21	75819.93839	0.2507	0.5175	0.25727	0.56129	3.48E-03	1.03E-05	1.85E-05	1.05E-05	1.93E-05	3.5371E-03
520339.89	4258618.32	75816.89227	2.18261	3.55246	3.20466	2.89523	3.48E-03	8.94E-05	1.27E-04	1.31E-04	9.94E-05	3.9254E-03
520354.21	4258293.18	75763.00651	0.25594	0.55038	0.26316	0.59747	3.48E-03	1.05E-05	1.97E-05	1.08E-05	2.05E-05	3.5373E-03
520128.72	4258402.47	75722.37547	0.49649	5.81651	0.52906	6.95403	3.47E-03	2.03E-05	2.08E-04	2.17E-05	2.39E-04	3.9628E-03
520385.32	4258912.79	75586.71947	0.46683	0.18565	0.44572	0.19628	3.47E-03	1.91E-05	6.64E-06	1.82E-05	6.74E-06	3.5185E-03
520217.07	4258953.07	75556.66473	1.56182	0.29877	1.44772	0.31117	3.47E-03	6.39E-05	1.07E-05	5.93E-05	1.07E-05	3.6110E-03
520502.07	4258481.52	75536.02711	0.20897	0.22825	0.20593	0.24224	3.47E-03	8.56E-06	8.16E-06	8.43E-06	8.32E-06	3.4989E-03
520373.78	4258228.24	75528.79499	0.24528	0.4878	0.25126	0.5283	3.47E-03	1.00E-05	1.74E-05	1.03E-05	1.81E-05	3.5210E-03
520503.97	4258733.34	75469.4977	0.2426	0.18056	0.2329	0.18881	3.46E-03	9.93E-06	6.46E-06	9.54E-06	6.48E-06	3.4948E-03
520344.42	4258293.15	75420.53629	0.26102	0.58667	0.26884	0.63718	3.46E-03	1.07E-05	2.10E-05	1.10E-05	2.19E-05	3.5247E-03
520236.65	4258322.81	75401.00747	0.33995	1.13482	0.35255	1.49105	3.46E-03	1.39E-05	4.77E-05	1.44E-05	5.12E-05	3.5865E-03
520149.83	4258925.84	75366.93052	3.63076	0.42717	3.19091	0.41056	3.46E-03	1.49E-04	1.53E-05	1.31E-04	1.41E-05	3.7664E-03
520511.31	4258691.88	75365.9069	0.22891	0.18619	0.22034	0.19527	3.46E-03	9.37E-06	6.66E-06	9.02E-06	6.70E-06	3.4894E-03
520296.28	4258952.93	75338.84159	0.82056	0.22038	0.78079	0.23637	3.46E-03	3.36E-05	7.88E-06	3.20E-05	8.11E-06	3.5380E-03
520104.16	4258887	75300.2271	10.10179	0.54366	8.57809	0.50072	3.45E-03	4.14E-04	1.94E-05	3.51E-04	1.72E-05	4.2561E-03
520058.16	4258818.05	75272.16268	7.62198	0.69903	14.115	0.66257	3.45E-03	3.12E-04	2.50E-05	5.78E-04	2.27E-05	4.3911E-03
520285.65	4258302.96	75156.19859	0.29805	0.88627	0.30631	0.9745	3.45E-03	1.22E-05	3.17E-05	1.25E-05	3.35E-05	3.5379E-03
520482.42	4258785.36	75101.85031	0.27145	0.17541	0.26062	0.1839	3.45E-03	1.11E-05	6.27E-06	1.07E-05	6.31E-06	3.4799E-03
520355.65	4258932.84	75066.0684	0.55847	0.19327	0.53347	0.20553	3.44E-03	2.29E-05	6.91E-06	2.18E-05	7.06E-06	3.5026E-03
520383.57	4258293.27	75060.64076	0.23987	0.46059	0.24518	0.49812	3.44E-03	9.82E-06	1.65E-05	1.00E-05	1.71E-05	3.4971E-03
520036.02	4258752.83	75050.24888	3.38228	0.95608	4.58254	0.91135	3.44E-03	1.38E-04	3.42E-05	1.88E-04	3.13E-05	3.8348E-03
520089.59	4258871	75039.22448	15.72186	0.58037	15.50529	0.535	3.44E-03	6.44E-04	2.08E-05	6.35E-04	1.84E-05	4.7603E-03
520502.59	4258436.39	75020.34348	0.20256	0.23519	0.20055	0.24923	3.44E-03	8.29E-06	8.41E-06	8.21E-06	8.56E-06	3.4753E-03
520334.63	4258293.11	75009.00662	0.2661	0.6263	0.27426	0.68091	3.44E-03	1.09E-05	2.24E-05	1.12E-05	2.34E-05	3.5092E-03
520256.26	4258312.87	74969.22689	0.32091	1.12196	0.33059	1.24591	3.44E-03	1.31E-05	4.01E-05	1.35E-05	4.28E-05	3.5490E-03
520473.09	4258810.48	74861.36577	0.29072	0.17375	0.27888	0.18276	3.43E-03	1.19E-05	6.21E-06	1.14E-05	6.27E-06	3.4703E-03
520158.18	4258372.56	74757.83843	0.43497	3.18278	0.46459	3.9306	3.43E-03	1.78E-05	1.21E-04	1.90E-05	1.35E-04	3.7225E-03
520493.79	4258385.58	74689.22515	0.19962	0.25255	0.19925	0.26809	3.43E-03	8.17E-06	9.03E-06	8.16E-06	9.20E-06	3.4612E-03
520207.17	4258953.08	74642.16494	1.72594	0.31171	1.591	0.32161	3.42E-03	7.07E-05	1.11E-05	6.51E-05	1.10E-05	3.5824E-03
520422.69	4258303.39	74633.91322	0.22138	0.37028	0.2234	0.39757	3.42E-03	9.06E-06	1.32E-05	9.15E-06	1.36E-05	3.4692E-03
520140.98	4258922.19	74510.57663	4.24523	0.44483	3.69181	0.42242	3.42E-03	1.74E-04	1.59E-05	1.51E-04	1.45E-05	3.7738E-03
520197.43	4258342.69	74468.70069	0.37953	2.0021	0.40128	2.27492	3.42E-03	1.55E-05	7.16E-05	1.64E-05	7.81E-05	3.5982E-03
520324.84	4258293.08	74429.72358	0.27106	0.66886	0.27939	0.72918	3.41E-03	1.11E-05	2.40E-05	1.14E-05	2.50E-05	3.4862E-03
520507.45	4258725.04	74424.95008	0.23785	0.18059	0.22832	0.18898	3.41E-03	9.74E-06	6.44E-06	9.35E-06	6.49E-06	3.4465E-03
520306.18	4258952.92	74410.60542	0.76677	0.21342	0.73054	0.22876	3.41E-03	3.14E-05	7.63E-06	2.99E-05	7.85E-06	3.4906E-03
520393.36	4258293.3	74400.34664	0.23448	0.43564	0.23909	0.47045	3.41E-03	9.60E-06	1.56E-05	9.79E-06	1.62E-05	3.4645E-03
520118.9	4258412.44	74368.84836	0.51686	7.34987	0.55101	8.90376	3.41E-03	2.12E-05	2.63E-04	2.26E-05	3.06E-04	4.0242E-03
520177.45	4258943.13	74363.35587	2.42152	0.36349	2.18704	0.36251	3.41E-03	9.91E-05	1.30E-05	8.95E-05	1.24E-05	3.6258E-03
520484.04	4258361.38	74329.02332	0.2006	0.2688	0.20083	0.28465	3.41E-03	8.21E-06	9.61E-06	8.22E-06	9.77E-06	3.4459E-03
520375.44	4258922.8	74286.04518	0.49518	0.18676	0.47282	0.19781	3.41E-03	2.03E-05	6.68E-06	1.94E-05	6.79E-06	3.4612E-03
520412.42	4258895.64	74253.06182	0.40336	0.17899	0.38603	0.18884	3.41E-03	1.65E-05	6.40E-06	1.58E-05	6.48E-06	3.4518E-03
520442.24	4258313.45	74208.60134	0.21313	0.33489	0.21363	0.35755	3.40E-03	8.73E-06	1.20E-05	8.75E-06	1.23E-05	3.4463E-03
520099.23	4258442.38	74145.44306	0.60121	13.83618	0.65228	15.87986	3.40E-03	2.46E-05	4.95E-04	2.67E-05	5.45E-04	4.4930E-03
520113.85	4258901	73741.63813	7.63126	0.50878	6.47059	0.47072	3.38E-03	3.12E-04	1.82E-05	2.65E-04	1.62E-05	3.9949E-03
520315.05	4258293.05	73707.98484	0.27592	0.71775	0.28422	0.78262	3.38E-03	1.13E-05	2.57E-05	1.16E-05	2.69E-05	3.4571E-03
520275.87	4258302.93	73683.33507	0.30253	0.9582	0.31091	1.05683	3.38E-03	1.24E-05	3.43E-05	1.27E-05	3.63E-05	3.4761E-03
520478.09	4258348.82	73637.53636	0.20134	0.27882	0.20144	0.29499	3.38E-03	8.24E-06	9.97E-06	8.25E-06	1.01E-05	3.4149E-03
520197.27	4258953.1	73566.49119	1.92181	0.32535	1.76036	0.33197	3.38E-03	7.87E-05	1.16E-05	7.21E-05	1.14E-05	3.5489E-03
520168	4258362.6	73564.39921	0.41557	2.92447	0.44361	3.3734	3.37E-03	1.70E-05	1.05E-04	1.82E-05	1.16E-04	3.6306E-03
520429.98	4258878.37	73497.89285	0.36703	0.17482	0.35059	0.18467	3.37E-03	1.50E-05	6.25E-06	1.44E-05	6.34E-06	3.4139E-03
520403.15	4258293.33	73454.41056	0.22907	0.41288	0.23304	0.44507	3.37E-03	9.38E-06	1.48E-05	9.54E-06	1.53E-05	3.4189E-03
520395.22	4258912.77	73444.12269	0.44498	0.18165	0.42512	0.19179	3.37E-03	1.82E-05	6.50E-06	1.74E-05	6.58E-06	3.4182E-03
520316.08	4258952.9	73443.53345	0.7191	0.20712	0.68573	0.22177	3.37E-03	2.94E-05	7.41E-06	2.81E-05	7.61E-06	3.4420E-03
520028.13	4258709.69	73429.87436	2.51027	1.2658	3.31777	1.18093	3.37E-03	1.03E-04	4.53E-05	1.36E-04	4.05E-05	3.6933E-03
520095.11	4258883.27	73247.94411	13.41912	0.55083	11.92286	0.50742	3.36E-03	5.49E-04	1.97E-05	4.88E-04	1.74E-05	4.4352E-03
520032.4	4258744.12	73238.47406	2.97135	1.00074	4.00913	0.94988	3.36E-03	1.22E-04	3.58E-05	1.64E-04	3.26E-05	3.7143E-03
520450.96	4258317.18	73194.4279	0.20922	0.32099	0.20931	0.3418	3.36E-03	8.57E-06	1.15E-05	8.57E-06

520028.79	4258735.41	71417.85438	2.69044	1.04649	3.55652	0.99022	3.28E-03	1.10E-04	3.74E-05	1.46E-04	3.40E-05	3.6037E-03
520039.88	4258786.27	71365.23448	3.97141	0.7832E	5.39742	0.75236	3.27E-03	1.63E-04	2.80E-05	2.21E-04	2.58E-05	3.7115E-03
520296.3	4258962.93	71292.11391	0.82087	0.2149	0.78068	0.23051	3.27E-03	3.36E-05	7.69E-06	3.20E-05	7.91E-06	3.3519E-03
520344.45	4258283.15	71251.34477	0.25538	0.59202	0.26316	0.64215	3.27E-03	1.05E-05	2.12E-05	1.08E-05	2.20E-05	3.3333E-03
520383.6	4258283.27	71188.49988	0.23583	0.46421	0.24156	0.50172	3.27E-03	9.66E-06	1.66E-05	9.89E-06	1.72E-05	3.3194E-03
520109.08	4258422.41	71182.74741	0.53535	9.7171E	0.57288	11.77283	3.27E-03	2.19E-05	3.48E-04	2.35E-05	4.04E-04	4.0628E-03
520355.67	4258942.84	71151.98925	0.56033	0.18881	0.53486	0.20094	3.26E-03	2.29E-05	6.75E-06	2.19E-05	6.90E-06	3.3228E-03
520504.86	4258410.35	71016.76731	0.19731	0.2372	0.19582	0.25149	3.26E-03	8.08E-06	8.48E-06	8.02E-06	8.63E-06	3.2913E-03
520422.73	4258293.39	70985.39176	0.21847	0.37247	0.22113	0.40007	3.26E-03	8.95E-06	1.33E-05	9.05E-06	1.37E-05	3.3017E-03
520438.67	4258874.77	70949.3572	0.35128	0.17557	0.33564	0.18117	3.26E-03	1.44E-05	6.14E-06	1.37E-05	6.22E-06	3.2955E-03
520497.07	4258773.76	70942.08348	0.25654	0.17282	0.24614	0.18083	3.25E-03	1.05E-05	6.18E-06	1.01E-05	6.21E-06	3.2877E-03
520481.76	4258806.89	70936.74089	0.27935	0.17047	0.26788	0.17905	3.25E-03	1.14E-05	6.10E-06	1.10E-05	6.15E-06	3.2891E-03
520141.25	4258932.29	70854.49252	4.21801	0.4283	3.67377	0.40625	3.25E-03	1.73E-04	1.53E-05	1.50E-04	1.39E-05	3.6031E-03
520049.05	4258814.29	70850.9085	5.44229	0.69011	8.0621	0.66066	3.25E-03	2.23E-04	2.47E-05	3.30E-04	2.27E-05	3.8508E-03
520086.06	4258879.53	70828.60964	14.04818	0.5539	18.67299	0.51233	3.25E-03	5.75E-04	1.98E-05	7.65E-04	1.76E-05	4.6266E-03
520334.66	4258283.11	70803.91405	0.26002	0.63198	0.26798	0.68622	3.25E-03	1.06E-05	2.26E-05	1.10E-05	2.36E-05	3.3161E-03
520492.42	4258364.97	70802.12089	0.19666	0.25839	0.19682	0.27361	3.25E-03	8.05E-06	9.24E-06	8.06E-06	9.39E-06	3.2830E-03
520177.47	4258953.13	70790.48061	2.43639	0.35333	2.19944	0.35121	3.25E-03	9.98E-05	1.26E-05	9.01E-05	1.21E-05	3.4622E-03
520049.69	4258569.8	70769.13705	1.56866	7.16762	2.19599	4.91445	3.25E-03	6.42E-05	2.56E-04	8.99E-05	1.69E-04	3.8260E-03
520442.27	4258303.45	70760.31357	0.21063	0.36352	0.21162	0.35964	3.25E-03	8.62E-06	1.20E-05	8.66E-06	1.23E-05	3.2880E-03
520477.57	4258338.58	70748.22631	0.19945	0.28169	0.19943	0.29778	3.25E-03	8.17E-06	1.01E-05	8.17E-06	1.02E-05	3.2824E-03
520207.19	4258963.08	70709.51854	1.72329	0.30319	1.58913	0.31201	3.24E-03	7.06E-05	1.08E-05	6.51E-05	1.07E-05	3.4012E-03
520503.5	4258399.75	70657.41896	0.19644	0.24022	0.19533	0.25481	3.24E-03	8.04E-06	8.59E-06	8.00E-06	8.75E-06	3.2750E-03
520036.32	4258777.68	70630.14412	3.55422	0.81389	4.72927	0.78179	3.24E-03	1.46E-04	2.91E-05	1.94E-04	2.68E-05	3.6355E-03
520393.39	4258283.3	70602.1046	0.23075	0.43893	0.23586	0.47375	3.24E-03	9.45E-06	1.57E-05	9.66E-06	1.63E-05	3.2902E-03
520187.64	4258342.66	70569.30035	0.3794	2.2621	0.40326	2.5799	3.24E-03	1.55E-05	8.09E-05	1.65E-05	8.86E-05	3.4391E-03
520285.69	4258292.96	70543.19626	0.28944	0.8934	0.29744	0.98178	3.24E-03	1.19E-05	3.20E-05	1.22E-05	3.37E-05	3.3261E-03
520412.27	4258905.71	70518.01334	0.40546	0.17557	0.38753	0.18515	3.24E-03	1.66E-05	6.28E-06	1.59E-05	6.36E-06	3.2803E-03
520503.94	4258757.36	70504.66167	0.24671	0.17388	0.23661	0.18171	3.23E-03	1.01E-05	6.22E-06	9.69E-06	6.24E-06	3.2669E-03
520487.07	4258352.66	70503.46663	0.19725	0.26705	0.1974	0.28242	3.23E-03	8.08E-06	9.55E-06	8.08E-06	9.70E-06	3.2700E-03
520306.2	4258962.92	70462.66968	0.76752	0.20818	0.73083	0.22323	3.23E-03	3.14E-05	7.45E-06	2.99E-05	7.66E-06	3.3092E-03
520236.68	4258312.81	70433.71435	0.32793	1.34388	0.34089	1.50222	3.23E-03	1.34E-05	4.81E-05	1.40E-05	5.16E-05	3.3584E-03
520114.42	4258911.23	70403.41389	7.50828	0.48691	6.36939	0.45075	3.23E-03	3.07E-04	1.74E-05	2.61E-04	1.55E-05	3.8311E-03
520375.46	4258932.8	70383.8913	0.49667	0.18251	0.47391	0.19344	3.23E-03	2.03E-05	6.53E-06	1.94E-05	6.64E-06	3.2820E-03
520324.87	4258283.08	70237.42513	0.26459	0.67574	0.27253	0.73485	3.22E-03	1.08E-05	2.42E-05	1.12E-05	2.52E-05	3.2937E-03
520256.29	4258302.87	70094.33392	0.31038	1.1305	0.32038	1.25498	3.22E-03	1.27E-05	4.04E-05	1.31E-05	4.31E-05	3.3251E-03
520095.96	4258893.61	70073.95213	13.03243	0.52549	11.43155	0.48454	3.21E-03	5.34E-04	1.88E-05	4.68E-04	1.66E-05	4.2519E-03
520507.37	4258749.16	70052.04587	0.24194	0.17438	0.23204	0.18216	3.21E-03	9.91E-06	6.24E-06	9.50E-06	6.25E-06	3.2458E-03
520027.12	4258664.6	70021.54012	2.06541	1.84842	2.75386	1.65694	3.21E-03	8.46E-05	5.61E-05	1.13E-04	5.69E-05	3.5328E-03
520450.89	4258307.14	69946.85261	0.20691	0.32256	0.20736	0.34387	3.21E-03	8.47E-06	1.15E-05	8.49E-06	1.18E-05	3.2493E-03
520217.07	4258322.75	69933.87479	0.34547	1.62853	0.36284	1.83168	3.21E-03	1.41E-05	5.83E-05	1.49E-05	6.29E-05	3.3586E-03
520429.63	4258888.52	69895.48641	0.36905	0.17171	0.35215	0.18127	3.21E-03	1.51E-05	6.14E-06	1.44E-05	6.22E-06	3.2486E-03
520502.41	4258389.27	69787.01199	0.19536	0.24312	0.19467	0.25786	3.20E-03	8.00E-06	8.70E-06	7.97E-06	8.85E-06	3.2352E-03
520024.46	4258700.84	69781.83533	2.22368	1.32825	2.89884	1.23058	3.20E-03	9.10E-05	4.75E-05	1.19E-04	4.22E-05	3.5010E-03
520462.04	4258845.08	69781.02814	0.31075	0.16886	0.29773	0.17807	3.20E-03	1.27E-05	6.04E-06	1.22E-05	6.11E-06	3.2385E-03
520197.29	4258963.1	69778.64747	1.92115	0.31642	1.76056	0.32196	3.20E-03	7.87E-05	1.13E-05	7.21E-05	1.11E-05	3.3744E-03
520403.18	4258283.33	69753.56669	0.22561	0.41587	0.23015	0.4481	3.20E-03	9.24E-06	1.49E-05	9.42E-06	1.54E-05	3.2491E-03
520395.24	4258922.77	69687.35492	0.44659	0.17786	0.43638	0.18781	3.20E-03	1.83E-05	6.36E-06	1.75E-05	6.45E-06	3.2457E-03
520032.76	4258769.08	69651.60082	3.18997	0.84693	4.17786	0.8126	3.20E-03	1.31E-04	3.03E-05	1.71E-04	2.79E-05	3.5553E-03
520315.08	4258283.05	69514.88171	0.26902	0.73379	0.27683	0.78864	3.19E-03	1.10E-05	2.59E-05	1.13E-05	2.71E-05	3.2645E-03
520345.79	4258952.85	69445.29775	0.59758	0.18999	0.57021	0.20261	3.19E-03	2.45E-05	6.80E-06	2.33E-05	6.96E-06	3.2476E-03
520471.18	4258831.29	69409.13885	0.2963	0.16847	0.28408	0.17741	3.18E-03	1.21E-05	6.03E-06	1.16E-05	6.09E-06	3.2202E-03
520432.51	4258293.42	69404.99645	0.21328	0.35458	0.21534	0.3801	3.18E-03	8.73E-06	1.27E-05	8.82E-06	1.30E-05	3.2274E-03
520256.71	4258973	69332.78075	1.10582	0.24226	1.04159	0.25753	3.18E-03	4.53E-05	8.67E-06	4.26E-05	8.84E-06	3.2863E-03
520050.82	4258825.02	69280.05516	5.78377	0.65605	8.89386	0.62733	3.18E-03	2.37E-04	2.33E-05	3.64E-04	2.15E-05	3.8244E-03
520246.81	4258973.02	69243.85845	1.19798	0.25165	1.12467	0.26628	3.18E-03	4.91E-05	9.00E-06	4.60E-05	9.14E-06	3.2900E-03
520266.61	4258972.98	69197.40448	1.02317	0.23336	0.96655	0.24896	3.17E-03	4.19E-05	8.35E-06	3.96E-05	8.55E-06	3.2730E-03
520167.57	4258953.15	69163.4176	2.78485	0.36708	2.49273	0.35971	3.17E-03	1.14E-04	1.31E-05	1.02E-04	1.23E-05	3.4146E-03
520025.18	4258726.7	69148.81582	2.42133	1.09467	3.14766	1.03122	3.17E-03	9.91E-05	3.92E-05	1.29E-04	3.54E-05	3.4750E-03
520275.9	4258292.93	69075.85183	0.29339	0.96577	0.30179	1.06454	3.17E-03	1.20E-05	3.45E-05	1.24E-05	3.65E-05	3.2645E-03
520365.57	4258942.82	69073.5244	0.52817	0.18354	0.50391	0.19503	3.17E-03	2.16E-05	6.56E-06	2.06E-05	6.70E-06	3.2245E-03
520236.91	4258973.03	68971.36231	1.30241	0.2616	1.21818	0.27526	3.16E-03	5.33E-05	9.36E-06	4.99E-05	9.45E-06	3.2863E-03
520508.82	4258473.37	68948.15442	0.20342	0.22335	0.20055	0.23681	3.16E-03	8.33E-06	7.99E-06	8.21E-06	8.13E-06	3.1959E-03
520276.51	4258972.97	68843.98807	0.94879	0.22495	0.89852	0.24064	3.16E-03	3.88E-05	8.05E-06	3.68E-05	8.26E-06	3.2504E-03
520492.57	4258792.41	68842.1122	0.26449	0.1695	0.25365	0.17763	3.16E-03	1.08E-05	6.06E-06	1.04E-05	6.10E-06	3.1917E-03
520412.97	4258283.36	68833.76723	0.2206	0.39434	0.22445	0.42436	3.16E-03	9.03E-06	1.41E-05	9.19E-06	1.46E-05	3.2049E-03
520459.51	4258310.83	68812.64333	0.20319	0.30054	0.20324	0.32916	3.16E-03	8.32E-06	1.11E-05	8.32E-06	1.13E-05	3.1960E-03
520158.47	4258949.39	68804.59835	3.18073	0.38363	2.82222	0.37136	3.16E-03	1.30E-04	1.37E-05	1.16E-04	1.27E-05	3.4289E-03
520138.58	4258382.5	68796.33599	0.44579	0.47466	0.47287	5.64604	3.16E-03	1.83E-05	1.71E-04	1.94E-05	1.94E-04	3.5585E-03
520420.79	4258902.18	68665.32267	0.3879	0.17212	0.3701	0.18157	3.15E-03	1.59E-05	6.16E-06	1.52E-05	6.23E-06	3.1937E-03
520105.57	4258907.57	68632.40515	9.51588	0.49522	8.10751	0.45717	3.15E-03	3.90E-04	1.77E-05	3.32E-04	1.57E-05	3.9037E-03
520227.01	4258973.05	68598.51732	1.42484	0.27246	1.32701	0.28469	3.15E-03	5.83E-05	9.75E-06	5.43E-05	9.77E-06	3.2794E-03
520514.24	4258732.76	68596.51	0.23274	0.17493	0.22321	0.18282	3.15E-03	9.53E-06	6.26E-06	9.14E-06	6.28E-06	3.1783E-03
520187.39	4258963.12	68592.34235	2.15336	0.32967	1.96013	0.33126	3.15E-03	8.82E-05	1.18E-05	8.03E-05	1.14E-05	3.3385E-03
520305.29	4258283.02	68588.16073	0.27323	0.77682	0.28094	0.84826	3.15E-03	1.12E-05	2.78E-05	1.15E-05	2.91E-05	3.2263E-03
520501.53	4258378.88	68547.89768	0.19412	0.2459	0.19382	0.26064	3.14E-03	7.95E-06	8.80E-06	7.94E-06	8.95E-06	3.1785E-03
520480.61	4258817.37	68547.60049	0.28232	0.16795	0.27066	0.17653	3.14E-03	1.16E-05	6.01E-06	1.11E-05	6.06E-06	3.1795E-03
520403.69	4258919.27	68477.00097	0.42627	0.1751	0.40714	0.1847	3.14E-03	1.75E-05	6.26E-06	1.67E-05	6.34E-06	3.1883E-03
520286.41	4258972.95	68359.61046	0.8827	0.21722	0.83765	0.23277	3.14E-03	3.61E-05	7.77E-06	3.43E-05	7.99E-06	3.2224E-03
520029.19	4258760.49	68348.30521	2.85681	0.88315	3.71783	0.84486	3.14E-03	1.17E-04	3.16E-05	1.52E-04	2.90E-05	3.4655E-03
520447.37	4258871.17	68310.96164	0.33647	0.16835	0.3216	0.17769	3.13E-03	1.38E-05	6.02E-06	1.32E-05	6.10E-06	3.1730E-03
520158.21	4258362.56	68301.13401	0.41072	3.40506	0.43711	3.95121	3.13E-03	1.68E-05	1.22E-04	1.79E-05	1.36E-04	3.4257E-03
520385.36	4258932.79	68233.39609	0.47144	0.17805	0.44959	0.18842	3.13E-03	1.93E-05	6.37E-06	1.84E-05	6.47E-06	3.1810E-03
520486.41	4258342.37	68186.18428	0.19557	0.27014	0.19562	0.28536	3.13E-03	8.01E-06	9.66E-06	8.01E-06	9.80E-06	3.1637E-03
520128.76	4258392.47	68174.93712	0.46336	5.83713	0.49082	6.99866	3.13E-03	1.90E-05	2.09E-04	2.01E-05	2.40E-04	3.6159E-03
520149.36	4258945.63	68149.17364	3.66653	0.39958	3.22456	0.38226	3.13E-03	1.50E-04	1.43E-05	1.32E-04	1.31E-05	3.4361E-03
520087.01	4258889.92	68087.5125	15.52568	0.52874	17.48178	0.48935	3.12E-03	6.36E-04	1.89E-05	7.16E-04	1.68E-05	4.5109E-03
520027.12	4258655.32	68057.89442	1.96193	2.00876	2.62136	1.78219	3.12E-03	8.03E-05	7.19E-05	1.07E-04	6.12E-05	3.4431E-03
520217.11	4258973.07	68041.16092	1.56651	0.2839	1.45198	0.29416	3.12E-03	6.41E-05	1.02E-05	5.95E-05	1.01E-05	3.2654E-03
520521.36	4258691.81	68034.16547	0.22023	0.18014	0.21176	0.18876	3.12E-03	9.02E-06	6.44E-06	8.67E-06	6.48E-06	3.1519E-03
520246.5	4258302.84	68032.23737	0.31363	1.23436	0.32519	1.37487	3.12E-03	1.28E-05	4.42E-05	1.33E-05	4.72E-05	3.2387E-03
520364.06	4258273.21	67916.75887	0.24102	0.5267	0.248	0.56976	3.12E-03	9.87E-06	1.88E-05	1.02E-05	1.96E-05	3.1743E-03
520226.89	4258312.78	67895.59349	0.33042	1.48053	0.34568	1.66022	3.11E-03	1.35E-05	5.30E-05	1.42E-05	5.70E-05	3.2526E-03
520373.85	4258273.24	67852.18843	0.23642	0.49599	0.24297	0.53609	3.11E-03	9.68E-06	1.77E-05	9.95E-06	1.84E-05	3.1687E-03
520354.27	4258273.18	67796.3755	0.24551	0.56027	0.25282	0.60661	3.11E-03	1.01E-05	2.00E-05	1.04E-05	2.08E-05	3.1716E-03
520296.32	4258972.93	67741.52632	0.82249	0.21012	0.78272	0.22534	3.11E-03	3.37E-05	7.52E-06	3.20E-05	7.74E-06	3.1889E-03
520438.23	4258884.96	67696.70348	0.35344	0.16853	0.3373	0.17788	3.11E-03	1.45E-05	6.03E-06	1.38E-05	6.11E-06	3.1462E-03
520355.69	4258952.84	67686.12223	0.56291	0.18471	0.53695	0.1967	3.11E-03	2.30E-05	6.61E-06	2.20E-05	6.75E-06	3.1637E-03
520422.76	4258283.39	67590.65824	0.21554	0.37479	0.2188	0.40259	3.10E-03	8.83E-06	1.34E-05	8.96E-06	1.38E-05	3.1459E-03
520052.37	4258835.65	67556.71051	6.08535	0.62441	9.76329	0.59647	3.10E-03	2.49E-04	2.23E-05	4.00E-04	2.05E-05	3.7911E-03
520442.3	4258293.45	67538.0819	0.20812	0.33822	0.20968	0.36172	3.10E-03	8.52E-06	1.21E-05	8.59E-06	1.24E-05	3.1401E-03
520383.63	4258273.27	67512.85794	0.22168	0.46812	0.23778	0.50533	3.10E-03	9.49E-06	1.67E-05	9.74E-06	1.73E-05	3.1507E-03
520168.03	4258352.6	67504.78011	0.39391	2.94239	0.41934	3.3937	3.10E-03	1.61E-05	1.05E-04	1.72E-05	1.17E-04	3.3520E-03
520295.51	4258282.99	67500.63187	0.27724	0.83535	0.28497	0.91454	3.10E-03	1.14E-05	2.99E-05	1.17E-05	3.14E-05	3.1811E-03
520344.48	4258273.15	67473.69235	0.24987	0.59706	0.25738	0.64699	3.10E-03	1.02E-05	2.14E-05	1.05E-05	2.22E-05	3.1599E-03
520140.25	4258941.88	67470.77132	4.31533	0.41514	3.75202	0.39269	3.10E-03	1.77E-04	1.48E-05	1.54E-04	1.35E-05	3.4541E-03
520266.11	4258292.9	67425.01761	0.297	1.04705	0.30624	1.15779	3.09E-03	1.22E-05	3.75E-05	1.25E-05	3.97E-05	3.1952E-03
520335.9	4258962.87	67419.34687	0.63678	0.19101	0.60725	0.2041	3.09E-03	2.61E-05	6.83E-06	2.49E-05	7.01E-06	3.1578E-03
520468.13	4258314.52	67358.55545	0.19948	0.29735	0.19928	0.31539	3.09E-03	8.17E-06	1.06E-05	8.16E-06	1.08E-05	3.1281E-03
520114.95	4258921.44	67273.58845	7.40312	0.46664	6.2837	0.4322	3.09E-03	3.03E-04	1.67E-05	2.57E-04	1.48E-05	3.6783E-03
520207.21	4258973.08	67266.71059	1.73008	0.29576	1.59516	0.30346	3.09E-03	7.08E-05	1.06E-05	6.53E-05	1.04E-05	3.2432E-03
520177.49	4258963.13	67225.33608	2.4331	0.34287	2.19856	0.33992	3.08E-03	9.96E-05	1.23E-05	9.00E-05	1.17E-05	3.2977E-03
520490.42	4258803.31	67186.07901	0.26861	0.16726	0.25749	0.17545	3.08E-03	1.10E-05	5.98E-06	1.05E-05	6.02E-06	3.1159E-03
520039.81	4258598.93	67166.03637	1.71612	4.18897	2.44419	3.28564	3.08E-03	7.03E-05	1.50E-04	1.00E-04	1.13E-04	3.5144E-03
520496.04	4258356.5	67078.66314	0.19318	0.256	0.19332	0.27071	3.08E-03	7.91E-06	9.16E-06	7.92E-06	9.29E-06	3.1117E-03
520500.8	4258368.55	67065.01065	0.19276	0.24873	0.19275	0.26332	3.08E-03	7.89E-06	8.90E-06	7.89E-06	9.04E-06	3.1105E-03
520412.14	4258915.77	67037.98023	0.46737	0.17215	0.38889	0.1815	3.08E-03	1.67E-05	6.16E-06	1.59E-05	6.23E-06	3.1206E-03
520334.69	4258273.11	67025.98398	0.25414	0.6372	0.26168	0.6914	3.08E-03	1.04E-05	2.28E-05	1.07E-05	2.37E-05	3.1427E-03
520393.42	4258273.3	67020.78113	0.22692	0.44246	0.23249	0.47707	3.07E-03	9.29E-06	1.58E-05	9.52E-06	1.64E-05	3.1258E-03
520096.72	4258903.92	67014.99478	12.62655	0.50175	11.00146	0.46318	3.07E-03	5.17E-04	1.79E-05	4.50E-04	1.59E-05	4.0758E-03
520461.44	4258855.34	66913.50231	0.31304	0.16616	0.29969	0.17523	3.07E-03	1.28E-05	5.94E-06	1.23E-05	6.02E-06	3.1069E-03
520375.47	4258942.8	66900.505	0.49876	0.17856	0.47557	0.18942	3.07E-03	2.04E-05	6.39E-06	1.95E-05	6.50E-06	3.1220E-03
520450.83	4258297.1	66846.34587	0.20458	0.32427	0.20553	0.34601	3.07E-03	8.38E-06	1.16E-05	8.42E-06	1.19E-05	3.1071E-03
520207.28	4258322.72	66804.2752	0.34649	1.81472	0.36645	2.04556	3.06E-03	1.42E-05	6.49E-05	1.50E-05	7.02E-05	3.2292E-03
520470.4	4258841.62	66742.30132	0.28879	0.16581	0.28629	0.17468	3.06E-03	1.22E-05	5.93E-06	1.17E-05	6.00E-06	3.0979E-03
520118.94	4258402.44	66727.24285	0.48045	7.38365	0.5096	8.91	3.06E-03	1.97E-05	2.64E-04	2.09E-05	3.06E-04	3.6718E-03
520025.63	4258751.9	66682.22047	2.54787	0.92172	3.31277	0.87782	3.06E-03	1.04E-04	3.30E-05	1.36E-04	3.01E-05	3.3623E-03
520512.12	4258461.42	66679.69661	0.19995	0.22268	0.19738	0.2358	3.06E-03	8.19E-06	7.96E-06	8.08E-06	8.10E-06	3.0915E-03
520429.31	4258898.66	66569.60073	0.37101	0.16872	0.35375	0.17799	3.05E-03	1.52E-05	6.03E-06	1.45E-05	6.11E-06	3.0959E-03
520177.85	4258342.63	66473.54191	0.37748	2.57704	0.40185	2.95076	3.05E-03	1.55E-05	9.22E-05	1.65E-05	1.01E-04	3.2751E-03
520217.17	4258717.99	66458.6131	2.17388	1.14433	2.78436	1.07234	3.05E-03	8.90E-05	4.09E-05	1.14E-04	3.68E-05	3.3297E-03
520324.9	4258273.08	66406.98762	0.25827	0.6812	0.26573	0.74031	3.05E-03	1.06E-05	2.44E-05	1.09E-05	2.54E-05	3.1179E-03
520521.1	4258716.36	66367.67141	0.22406	0.17495	0.215	0.1831	3.04E-03	9.17E-06	6.26E-06	8.80E-06	6.29E-06	3.0753E-03
520197.31	4258973.1	66357.38838	1.92534	0.30817	1.76463	0.31263	3.04E-03	7.88E-05	1.10E-05	7.23E-05	1.07E-05	3.2172E-03
520403.21	4258273.33	66357.09375	0.22214	0.41886	0.22713	0.45109	3.04E-03	9.10E-06	1.50E-05	9.30E-06	1.55E-05	3.0932E-03
520512.06	4258481.89	66312.22942	0.20233	0.21944	0.19912	0.23262	3.04E-03	8.28E-06	7.85E-06	8.15E-06	7.99E-06	3.0745E-03
520285.72	4258282.96	66293.51468	0.28109	0.90021	0.28904	0.98869	3.04E-03	1.15E-05	3.22E-05	1.18E-05	3.39E-05	3.1309E-03
520099.26	4258432.38	66246.05501	0.5517	13.86168	0.59523	15.91144	3.04E-03	2.26E-05	4.96E-04	2.44E-05	5.46E-04	4.1283E-03
520395.26	4258932.77	66213.65843	0.44808	0.17413	0.42758	0.18393	3.04E-03	1.83E-05	6.23E-06	1.75E-05	6.31E-06	3.0862E-03
520345.8	4258962.85	66176.33859	0.59981	0.18607	0.57234	0.19851	3.04E-03	2.46E-05	6.66E-06	2.34E-05	6.82E-06	3.0975E-03
520432.55	4258283.42	66176.27132	0.21055	0.35665	0.21323	0.38241	3.04E-03	8.62E-06	1.28E-05	8.73E-06	1.31E-05	3.0793E-03
520479.62	4258827.79	66156.733	0.28502	0.16541	0.27318	0.17397	3.04E-03	1.17E-05	5.92E-06	1.12E-05	5.97E-06	3.0699E-03
520365.59	4258952.82	66098.07055	0.53202	0.17999	0.50738	0.19137	3.03E-03	2.18E-05	6.44E-06	2.08E-05	6.57E-06	3.0880E-03
520036.17	4258801.44	66032.06856	3.62419	0.70783	4.79642	0.68289	3.03E-03	1.48E-04	2.53E-05	1.96E-04	2.34E-05	3.4230E-03
520459.36	4258300.75	65906.74014	0.20103	0.3112	0.20145	0.33128	3.02E-03	8.23E-06	1.11E-05	8.25E-06	1.14E-05	3.0627E-03
520106.18	4258917.32	65783.13274	9.40007	0.47465	7.97682	0.43842	3.02E-03	3.85E-04	1.70E-05	3.27E-04	1.51E-05	3.7615E-03
520236.71	4258302.81	65765.37016	0.31622	1.35357	0.32982	1.51215	3.02E-03	1.29E-05	4.84E-05	1.35E-05	5.19E-05	3.1440E-03
520053.74	4258846.21	65743.21763	6.40646	0.59484	10.72055	0.56781	3.02E-03	2.62E-04	2.13E-05

520109.12	4258412.41	64059.94829	0.49613	9.76209	0.52838	11.79485	2.94E-03	2.03E-05	3.49E-04	2.16E-05	4.05E-04	3.7350E-03	
520517.67	4258748.5	64053.48207	0.23203	0.16926	0.22241	0.17664	2.94E-03	9.50E-06	6.05E-06	9.11E-06	6.06E-06	2.9694E-03	
520177.5	4258973.13	64027.29189	2.43929	0.33327	2.20485	0.32946	2.94E-03	9.99E-05	1.19E-05	9.03E-05	1.13E-05	3.1508E-03	
520375.49	4258952.8	63973.74825	0.5023	0.17512	0.47869	0.1859	2.93E-03	2.06E-05	6.26E-06	1.96E-05	6.38E-06	2.9878E-03	
520112.94	4258930.6	63958.55402	7.79797	0.45014	6.6155	0.4167	2.93E-03	3.19E-04	1.61E-05	2.71E-04	1.43E-05	3.5548E-03	
520043.52	4258832	63955.53049	4.55647	0.617	6.40691	0.59431	2.93E-03	1.87E-04	2.21E-05	2.62E-04	2.04E-05	3.4255E-03	
520344.51	4258263.15	63925.68401	0.24436	0.60198	0.25154	0.65164	2.93E-03	1.00E-05	2.15E-05	1.03E-05	2.24E-05	2.9970E-03	
520451.31	4258287.29	63917.58639	0.20205	0.3251	0.2035	0.34711	2.93E-03	8.27E-06	1.16E-05	8.33E-06	1.19E-05	2.9726E-03	
520054.96	4258856.71	63870.77833	6.71133	0.56739	11.76173	0.54129	2.93E-03	2.75E-04	2.03E-05	4.82E-04	1.86E-05	3.7255E-03	
520029.93	4258628.06	63823.44766	1.73978	2.66306	2.36914	2.26801	2.93E-03	7.12E-05	9.53E-05	9.70E-05	7.79E-05	3.2695E-03	
520412.02	4258925.83	63819.55135	0.40907	0.16881	0.39028	0.17796	2.93E-03	1.67E-05	6.04E-06	1.60E-05	6.11E-06	2.9728E-03	
520478.76	4258838.16	63785.0792	0.28749	0.16288	0.27547	0.17139	2.93E-03	1.18E-05	5.83E-06	1.13E-05	5.88E-06	2.9611E-03	
520393.45	4258263.3	63724.40756	0.22308	0.44596	0.22897	0.48033	2.92E-03	9.13E-06	1.60E-05	9.37E-06	1.65E-05	2.9745E-03	
520246.53	4258292.84	63691.28425	0.30299	1.24295	0.31515	1.38379	2.92E-03	1.24E-05	4.45E-05	1.29E-05	4.75E-05	3.0393E-03	
520515.3	4258469.76	63651.13446	0.19883	0.21834	0.19596	0.23127	2.92E-03	8.14E-06	7.81E-06	8.02E-06	7.94E-06	2.9521E-03	
520499.09	4258799.72	63607.67095	0.23842	0.1642	0.24769	0.172	2.92E-03	1.06E-05	5.87E-06	1.01E-05	5.90E-06	2.9507E-03	
520059.52	4258530.96	63578.99187	1.09112	13.28282	1.32468	7.65591	2.92E-03	4.47E-05	4.75E-04	5.42E-05	2.63E-04	3.7537E-03	
520429.03	4258908.78	63574.03288	0.37301	0.16582	0.35546	0.17482	2.92E-03	1.53E-05	5.93E-06	1.46E-05	6.00E-06	2.9584E-03	
520295.54	4258272.99	63526.15713	2.26951	0.84164	2.27718	0.92064	2.91E-03	1.10E-05	3.01E-05	1.13E-05	3.16E-05	2.9986E-03	
520197.49	4258322.69	63512.19159	0.34622	2.03507	0.36802	2.29825	2.91E-03	1.42E-05	7.28E-05	1.51E-05	7.89E-05	3.0948E-03	
520334.72	4258263.11	63450.61533	0.24826	0.6423	0.25539	0.69631	2.91E-03	1.02E-05	2.30E-05	1.05E-05	2.39E-05	2.9785E-03	
520505.02	4258360.35	63447.12707	0.18913	0.24596	0.18919	0.26001	2.91E-03	7.74E-06	8.80E-06	7.75E-06	8.93E-06	2.9440E-03	
520024.85	4258774.14	63442.27128	2.62765	0.79605	3.32931	0.76613	2.91E-03	1.08E-04	2.85E-05	1.36E-04	2.63E-05	3.2093E-03	
520266.14	4258282.9	63358.07748	0.28785	1.05401	0.29739	1.16551	2.91E-03	1.18E-05	3.77E-05	1.22E-05	4.00E-05	3.0084E-03	
520226.92	4258302.78	63341.99738	0.31805	1.49118	0.33389	1.67045	2.91E-03	1.30E-05	5.33E-05	1.37E-05	5.73E-05	3.0434E-03	
520017.96	4258709.28	63312.58018	1.94396	1.1946	2.46491	1.11272	2.90E-03	7.96E-05	4.27E-05	1.01E-04	3.82E-05	3.1661E-03	
520432.58	4258273.42	63187.52179	0.20782	0.35875	0.21106	0.38468	2.90E-03	8.51E-06	1.28E-05	8.64E-06	1.32E-05	2.9421E-03	
520403.24	4258263.33	63154.1056	0.2186	0.42203	0.22398	0.45408	2.90E-03	8.95E-06	1.51E-05	9.17E-06	1.56E-05	2.9462E-03	
520494.57	4258335.85	63151.45531	0.19004	0.26218	0.19011	0.27642	2.90E-03	7.78E-06	9.38E-06	7.78E-06	9.49E-06	2.9317E-03	
520476.42	4258308.05	63116.51471	0.19389	0.28764	0.19372	0.30462	2.90E-03	7.94E-06	1.03E-05	7.93E-06	1.05E-05	2.9323E-03	
520316.13	4258982.9	63070.3292	0.72521	0.19342	0.69023	0.20733	2.89E-03	2.97E-05	6.92E-06	2.83E-05	7.12E-06	2.9655E-03	
520460.29	4258291.14	63051.47066	0.19845	0.31125	0.19928	0.33156	2.89E-03	8.13E-06	1.11E-05	8.16E-06	1.14E-05	2.9315E-03	
520488.07	4258824.29	63012.95449	0.27435	0.16232	0.26282	0.17052	2.89E-03	1.12E-05	5.81E-06	1.08E-05	5.85E-06	2.9246E-03	
520395.27	4258942.77	63003.73247	0.44945	0.17048	0.42875	0.18017	2.89E-03	1.84E-05	6.10E-06	1.76E-05	6.19E-06	2.9387E-03	
520464.77	4258863.96	62963.87777	0.30949	0.16211	0.29601	0.1709	2.89E-03	1.27E-05	5.80E-06	1.21E-05	5.87E-06	2.9251E-03	
520345.82	4258972.85	62946.85057	0.60106	0.18204	0.57343	0.1943	2.89E-03	2.46E-05	6.51E-06	2.35E-05	6.67E-06	2.9492E-03	
520256.75	4258993	62932.58317	1.11493	0.23211	1.04949	0.24583	2.89E-03	4.56E-05	8.30E-06	4.30E-05	8.44E-06	2.9926E-03	
520455.44	4258877.83	62920.80106	0.32489	0.16242	0.31023	0.1713	2.89E-03	1.33E-05	5.81E-06	1.27E-05	5.88E-06	2.9244E-03	
520365.6	4258962.82	62919.96573	0.53351	0.17627	0.50876	0.18751	2.89E-03	2.18E-05	6.30E-06	2.08E-05	6.44E-06	2.9421E-03	
520027.12	4258636.77	62917.32357	1.72569	2.36234	2.3111	2.04783	2.89E-03	7.07E-05	8.45E-05	9.46E-05	7.03E-05	3.2066E-03	
520517.32	4258423.32	62915.68398	0.19194	0.22428	0.19001	0.23713	2.89E-03	7.86E-06	8.02E-06	7.78E-06	8.14E-06	2.9183E-03	
520148.43	4258362.53	62902.85888	0.40164	0.41685	0.42677	0.49858	2.89E-03	1.65E-05	1.44E-04	1.75E-05	1.61E-04	3.2248E-03	
520088.64	4258910.58	62896.04374	14.95675	0.48363	15.80866	0.44822	2.89E-03	6.12E-04	1.73E-05	6.47E-04	1.54E-05	4.1779E-03	
520246.84	4258993.02	62885.32253	1.20911	0.24104	1.13444	0.25399	2.89E-03	4.95E-05	8.62E-06	4.64E-05	8.72E-06	2.9984E-03	
520058.92	4258868.33	62864.21256	7.93548	0.5435	16.4273	0.51675	2.88E-03	3.25E-04	1.94E-05	6.73E-04	1.77E-05	3.9188E-03	
520266.65	4258992.98	62843.35441	1.03173	0.22373	0.97392	0.23794	2.88E-03	4.22E-05	8.00E-06	3.99E-05	8.17E-06	2.9814E-03	
520018.5	4258734.71	62830.74122	2.09531	1.00158	2.65827	0.94602	2.88E-03	8.58E-05	3.58E-05	1.09E-04	3.25E-05	3.1455E-03	
520324.93	4258263.08	62767.88528	0.25196	0.68658	0.25005	0.74544	2.88E-03	1.03E-05	2.46E-05	1.06E-05	2.56E-05	2.9507E-03	
520236.94	4258993.03	62717.48341	1.31651	0.25056	1.23068	0.26238	2.88E-03	5.39E-05	8.96E-06	5.04E-05	9.01E-06	2.9996E-03	
520158.25	4258352.56	62715.68744	0.38856	3.42407	0.41173	3.97105	2.88E-03	1.59E-05	1.22E-04	1.69E-05	1.36E-04	3.1688E-03	
520138.61	4258372.5	62676.54897	0.41876	4.80034	0.44195	5.66578	2.88E-03	1.71E-05	1.72E-04	1.81E-05	1.95E-04	3.2760E-03	
520167.6	4258973.15	62638.40908	2.78477	0.34527	2.49709	0.33673	2.87E-03	1.14E-04	1.23E-05	1.02E-04	1.16E-05	3.1139E-03	
520039.77	4258589.23	62606.54953	1.52089	4.44824	2.12594	3.4428	2.87E-03	6.23E-05	1.59E-04	8.70E-05	1.18E-04	3.2989E-03	
520276.55	4258992.97	62583.282	0.95738	0.21584	0.90589	0.2303	2.87E-03	3.92E-05	7.72E-06	3.71E-05	7.91E-06	2.9631E-03	
520524.46	4258732.28	62581.08206	0.22351	0.16962	0.21423	0.17716	2.87E-03	9.15E-06	6.07E-06	8.77E-06	6.08E-06	2.9012E-03	
520103.83	4258926.84	62540.81202	10.07805	0.45699	8.5717	0.42235	2.87E-03	4.13E-04	1.63E-05	3.51E-04	1.45E-05	3.6637E-03	
520045	4258842.6	62494.3978	4.80901	0.58784	6.87773	0.56603	2.87E-03	1.97E-04	2.10E-05	2.82E-04	1.94E-05	3.3861E-03	
520413.03	4258263.36	62429.75984	0.21411	0.39996	0.21893	0.42989	2.86E-03	8.77E-06	1.43E-05	8.96E-06	1.48E-05	2.9110E-03	
520446.36	4258891.6	62416.16613	0.34069	0.16266	0.32492	0.17154	2.86E-03	1.39E-05	5.82E-06	1.33E-05	5.89E-06	2.9025E-03	
520227.04	4258993.05	62408.99238	1.43969	2.26063	1.3404	2.07089	2.86E-03	5.89E-05	9.32E-06	5.49E-05	9.30E-06	2.9957E-03	
520207.31	4258312.72	62380.48029	0.33261	1.82541	0.35207	2.05987	2.86E-03	1.36E-05	6.53E-05	1.44E-05	7.07E-05	3.0259E-03	
520158.67	4258969.46	62344.29272	3.16653	0.3594	2.81678	0.34661	2.86E-03	1.30E-04	1.29E-05	1.15E-04	1.19E-05	3.1300E-03	
520420.4	4258922.36	62342.41717	0.39149	0.1659	0.37312	0.17484	2.86E-03	1.60E-05	5.93E-06	1.53E-05	6.00E-06	2.9034E-03	
520285.75	4258272.96	62338.53696	0.27294	0.96078	0.28106	0.99556	2.86E-03	1.12E-05	3.24E-05	1.15E-05	3.42E-05	2.9493E-03	
520326.03	4258982.89	62281.97224	0.68119	0.18812	0.64894	0.20145	2.86E-03	2.79E-05	6.73E-06	2.66E-05	6.92E-06	2.9255E-03	
520168.07	4258342.6	62219.68018	0.37377	2.96195	0.39673	3.40981	2.85E-03	1.53E-05	1.06E-04	1.62E-05	1.17E-04	3.1091E-03	
520286.45	4258992.95	62162.86827	0.89062	0.20845	0.84432	0.22295	2.85E-03	3.65E-05	7.46E-06	3.46E-05	7.65E-06	2.9381E-03	
520385.39	4258952.79	62133.95622	0.47581	0.17081	0.45333	0.18102	2.85E-03	1.95E-05	6.11E-06	1.86E-05	6.21E-06	2.9010E-03	
520504.08	4258349.93	62078.29481	0.18785	0.24884	0.18795	0.26271	2.85E-03	7.69E-06	8.90E-06	7.70E-06	9.02E-06	2.8813E-03	
520021.08	4258765.04	62059.98996	2.36812	0.83094	2.97885	0.79612	2.85E-03	9.70E-05	2.97E-05	1.22E-04	2.73E-05	3.1232E-03	
520315.14	4258263.05	61985.07822	0.25556	0.73499	0.26263	0.79973	2.84E-03	1.05E-05	2.63E-05	1.08E-05	2.75E-05	2.9187E-03	
520149.75	4258965.78	61950.42781	3.65174	0.37327	3.21761	0.35607	2.84E-03	1.50E-04	1.34E-05	1.32E-04	1.22E-05	3.1490E-03	
520403.99	4258939.16	61939.50887	0.42848	0.16791	0.40873	0.17719	2.84E-03	1.75E-05	6.01E-06	1.67E-05	6.08E-06	2.8880E-03	
520217.14	4258993.07	61915.78896	1.58163	0.27116	1.46578	0.27935	2.84E-03	6.48E-05	9.70E-06	6.00E-05	9.59E-06	2.9846E-03	
520128.79	4258382.47	61893.12564	0.43384	5.86707	0.45725	7.02077	2.84E-03	1.78E-05	2.10E-04	1.87E-05	2.41E-04	3.3269E-03	
520469.27	4258294.98	61872.67636	0.19482	0.29844	0.19516	0.31708	2.84E-03	7.98E-06	1.07E-05	7.99E-06	1.09E-05	2.8761E-03	
520497.71	4258810.3	61848.10751	0.26144	0.16184	0.25051	0.16965	2.84E-03	1.07E-05	5.79E-06	1.03E-05	5.82E-06	2.8700E-03	
520442.37	4258273.45	61791.98181	0.20314	0.34146	0.20578	0.36559	2.83E-03	8.32E-06	1.22E-05	8.43E-06	1.26E-05	2.8764E-03	
520531.4	4258691.76	61710.06088	0.21201	0.17463	0.20376	0.18278	2.83E-03	8.68E-06	6.25E-06	8.34E-06	6.28E-06	2.8607E-03	
520437.48	4258905.28	61687.96499	0.35732	0.16289	0.34052	0.17171	2.83E-03	1.46E-05	5.83E-06	1.39E-05	5.89E-06	2.8704E-03	
520256.35	4258282.87	61637.69433	0.29062	1.1461	0.30158	1.27154	2.83E-03	1.19E-05	4.10E-05	1.23E-05	4.37E-05	2.9367E-03	
520296.35	4258992.93	61590.31538	0.83039	0.20155	0.78837	0.21591	2.83E-03	3.40E-05	7.21E-06	3.23E-05	7.41E-06	2.9065E-03	
520236.74	4258292.81	61514.31578	0.30499	1.34299	0.31021	1.52132	2.82E-03	1.25E-05	4.88E-05	1.31E-05	5.22E-05	2.9487E-03	
520140.82	4258962.09	61507.27769	4.28663	0.38662	3.73443	0.36504	2.82E-03	1.76E-04	1.38E-05	1.53E-04	1.25E-05	3.1766E-03	
520422.82	4258263.39	61498.14818	0.20958	0.37967	0.21386	0.40757	2.82E-03	8.58E-06	1.36E-05	8.76E-06	1.40E-05	2.8663E-03	
520355.72	4258972.84	61491.88925	0.56649	0.17715	0.54028	0.18881	2.82E-03	2.32E-05	6.34E-06	2.21E-05	6.48E-06	2.8793E-03	
520478	4258848.48	61457.09731	0.28978	0.16037	0.27754	0.1688	2.82E-03	1.19E-05	5.74E-06	1.14E-05	5.80E-06	2.8543E-03	
520484.95	4258311.7	61453.09128	0.19043	0.2766	0.19008	0.29236	2.82E-03	7.80E-06	9.89E-06	7.78E-06	1.00E-05	2.8549E-03	
520113.51	4258940.83	61305.11653	7.72282	0.43262	6.54205	0.40061	2.81E-03	3.16E-04	1.55E-05	2.68E-04	1.38E-05	3.4259E-03	
520451.24	4258277.25	61288.05589	0.19978	0.33662	0.20175	0.34902	2.81E-03	8.18E-06	1.17E-05	8.26E-06	1.20E-05	2.8519E-03	
520207.24	4258993.08	61252.26998	1.74697	0.28208	1.61067	0.28766	2.81E-03	7.15E-05	1.01E-05	6.59E-05	9.88E-06	2.9676E-03	
520094.73	4258923.08	61228.16265	13.53111	0.46187	11.91497	0.42737	2.81E-03	5.54E-04	1.65E-05	4.88E-04	1.47E-05	3.8821E-03	
520335.94	4258982.87	61161.39489	0.63996	0.18295	0.60996	0.19556	2.81E-03	2.62E-05	6.54E-06	2.50E-05	6.72E-06	2.8704E-03	
520373.91	4258253.24	61117.06306	0.22737	0.50451	0.23409	0.54361	2.80E-03	9.31E-06	1.80E-05	9.58E-06	1.87E-05	2.8595E-03	
520375.51	4258962.8	61109.80503	0.50419	0.1716	0.48043	0.18228	2.80E-03	2.06E-05	6.14E-06	1.97E-05	6.26E-06	2.8563E-03	
520364.12	4258253.21	61103.08537	0.23132	0.53573	0.23818	0.5778	2.80E-03	9.47E-06	1.92E-05	9.75E-06	1.98E-05	2.8615E-03	
520017.12	4258683.15	61048.83775	1.73178	1.44644	2.20619	1.32151	2.80E-03	7.09E-05	5.17E-05	9.03E-05	4.54E-05	3.0591E-03	
520305.36	4258263.02	61028.76903	0.25894	0.78832	0.26619	0.85974	2.80E-03	1.06E-05	2.82E-05	1.09E-05	2.95E-05	2.8791E-03	
520275.96	4258272.93	60999.14107	0.27609	0.97952	0.28501	1.07849	2.80E-03	1.13E-05	3.50E-05	1.17E-05	3.70E-05	2.8936E-03	
520383.7	4258253.27	60995.20939	0.22335	0.47577	0.22978	0.51227	2.80E-03	9.14E-06	1.70E-05	9.41E-06	1.76E-05	2.8515E-03	
520060.17	4258878.84	60954.5146	8.40351	0.51965	15.98008	0.4938	2.80E-03	3.44E-04	1.86E-05	6.54E-04	1.70E-05	3.8304E-03	
520483.13	4258253.13	60931.93116	0.54025	0.56088	7.35846	0.53984	2.80E-03	2.06E-04	2.01E-05	3.01E-04	1.85E-05	3.3417E-03	
520354.33	4258253.18	60930.94621	0.23516	0.56971	0.24206	0.61516	2.80E-03	9.63E-06	2.04E-05	9.91E-06	2.11E-05	2.8564E-03	
520487.12	4258834.69	60908.88332	0.27681	0.15998	0.26518	0.16815	2.79E-03	1.13E-05	5.72E-06	1.09E-05	5.77E-06	2.8281E-03	
520306.25	4258892.92	60881.19705	0.77588	0.19513	0.7374	0.20919	2.79E-03	3.18E-05	6.98E-06	3.02E-05	7.18E-06	2.8692E-03	
520029.16	4258808.65	60878.26095	3.03102	0.66469	3.88562	0.64347	2.79E-03	1.24E-04	2.38E-05	1.59E-04	2.21E-05	3.1220E-03	
520217.13	4258302.75	60843.9057	0.31912	1.65061	0.33688	1.85493	2.79E-03	1.31E-05	5.90E-05	1.38E-05	6.37E-05	2.9410E-03	
520428.78	4258918.89	60748.95181	0.37484	0.16292	0.35704	0.17167	2.79E-03	1.53E-05	5.83E-06	1.46E-05	5.89E-06	2.8287E-03	
520520.79	4258432.44	60712.0833	0.19113	0.21997	0.189	0.23243	2.79E-03	7.83E-06	7.87E-06	7.74E-06	7.98E-06	2.8168E-03	
520412.71	4258935.55	60706.98703	0.4089	0.16527	0.38994	0.17421	2.79E-03	1.67E-05	5.91E-06	1.60E-05	5.98E-06	2.8297E-03	
520393.48	4258253.3	60678.50541	0.21923	0.44944	0.22531	0.48351	2.78E-03	8.98E-06	1.61E-05	9.23E-06	1.66E-05	2.8347E-03	
520344.54	4258253.15	60573.0528	0.23885	0.60682	0.24572	0.65605	2.78E-03	9.78E-06	2.17E-05	1.01E-05	2.25E-05	2.8430E-03	
520460.11	4258281.05	60518.04289	0.19635	0.31289	0.19769	0.33361	2.78E-03	8.04E-06	1.12E-05	8.09E-06	1.15E-05	2.8152E-03	
520503.29	4258339.58	60485.83599	0.18641	0.25185	0.18649	0.26546	2.77E-03	7.63E-06	9.01E-06	7.64E-06	9.11E-06	2.8084E-03	
520464.05	4258874.27	60485.74454	0.31183	0.1595	0.29791	0.16813	2.77E-03	1.28E-05	5.71E-06	1.22E-05	5.77E-06	2.8114E-03	
520531.26	4258716.06	60451.79148	0.21544	0.16958	0.20664	0.17736	2.77E-03	8.82E-06	6.07E-06	8.46E-06	6.09E-06	2.8028E-03	
520014.94	4258726.12	60428.39726	1.86633	1.04302	2.37919	0.98022	2.77E-03	7.76E-05	3.73E-05	9.74E-05	3.37E-05	3.0184E-03	
520478.24	4258298.82	60416.64116	0.19118	0.28648	0.19117	0.30354	2.77E-03	7.83E-06	1.02E-05	7.83E-06	1.04E-05	2.8081E-03	
520197.34	4258993.1	60401.13693	1.94135	0.2932	1.77954	0.29563	2.77E-03	7.95E-05	1.05E-05	7.29E-05	1.01E-05	2.9441E-03	
520118.97	4258392.44	60398.83816	0.44817	7.4066	0.47298	8.95933	2.77E-03	1.83E-05	2.65E-04	1.94E-05	3.08E-04	3.3812E-03	
520432.61	4258263.42	60383.15569	0.20506	0.36096	0.2088	0.38694	2.77E-03	8.40E-06	1.29E-05	8.55E-06	1.33E-05	2.8134E-03	
520034.67	4258828.34	60372.2201	3.55253	0.6103	4.66205	0.59124	2.77E-03	1.45E-04	2.18E-05	1.91E-04	2.03E-05	3.1482E-03	
520187.71	4258322.66	60336.87622	0.34504	2.29579	0.36695	2.60542	2.77E-03	1.41E-05	8.21E-05	1.50E-05	8.94E-05	2.9689E-03	
520473.46	4258860.36	60330.64339	0.29718	0.15915	0.28436	0.16763	2.77E-03	1.22E-05	5.69E-06	1.16E-05	5.75E-06	2.8031E-03	
520029.89	4258618.37	60326.79516	1.58299	2.87004	2.1453	2.41176	2.77E-03	6.48E-05	1.03E-04	8.78E-05	8.28E-05	3.1058E-03	
520454.88	4258888.07	60310.89067	0.32694	0.15978	0.31192	0.16844	2.77E-03	1.34E-05	5.72E-06	1.28E-05	5.78E-06	2.8046E-03	
520316.15	4258992.9	60256.17561	0.72732	0.18944	0.69196	0.20306	2.76E-03	2.98E-05	6.78E-06	2.83E-05	6.97E-06	2.8363E-03	
520025.45	4258799.68	60235.81354	2.74633	0.68951	3.47487	0.66685	2.76E-03	1.12E-04	2.47E-05	1.42E-04	2.29E-05	3.0658E-03	
520511.37	4258787.48	60224.54275	0.24389	0.162	0.23379	0.16932	2.76E-03	9.99E-06	5.79E-06	9.57E-06	5.81E-06	2.7942E-03	
520017.31	4258755.94	60223.79578	2.10953	0.86781	2.66719	0.82666	2.76E-03	8.64E-05	3.10E-05	1.09E-04	2.84E-05	3.0180E-03	
520403.27	4258253.33	60215.93819	0.21506	0.42514	0.22069	0.457	2.76E-03	8.81E-06	1.52E-05	9.04E-06	1.57E-05	2.8113E-03	
520515	4258778.83	60122.96496	0.23907	0.1627	0.22919	0.1699	2.76E-03	9.79E-06	5.82E-06	9.38E-06	5.83E-06	2.7892E-03	
520334.75	4258253.12	60074.56342	0.24242	0.64727	0.24921	0.70094	2.76E-03	9.93E-06	2.32E-05	1.02E-05	2.41E-05	2.8235E-03	
520519.65	4258396.65	60054.19496	0.18697	0.22595	0.18567	0.23905	2.76E-03	7.66E-06	8.08E-06	7.60E-06	8.21E-06	2.7867E-03	
520049.87	4258864.6	60052.19627	5.67077	0.53752	8.83531	0.51591	2.76E-03	2.32E-04	1.92E-05	3.62E-04	1.77E-05	3.3860E-03	
520256.76	4259003	60044.81827	1.11763	0.22724	1.05195	0.24022	2.75E-03	4.58E-05	8.13E-06	4.31E-05	8.25E-06	2.8599E-03	
520104.49	4258937.11	60020.77732	0.91854	0.43878	8.4191	0.40577	2.75E-03	4.06E-04	1.57E-05	3.45E-04	1.39E-05	3.5341E-03	
520496.52	4258820.8	60012.47659	0.26418	0.15951	0.25311	0.16733	2.75E-03	1.08E-05	5.71E-06	1.04E-05	5.74E-06	2.7859E-03	
520395.29	4258952.77	60004.38903	0.45071	0.16684	0.42972	0.17646	2.75E-03	1.85E-05	5.97E-06	1.76E-05	6.06E-06	2.8010E-03	
520266.66	4259002.98	59973.97724	1.0341	0.21914	0.9761	0.23266	2.75E-03	4.23E-05	7.84E-06	4.00E-05	7.99E-06	2.8496E-03	
520246.86	4259003.02	59968.58496	1.2118	0.23585	1.13689	0.24801	2.75E-03	4.96E-05	8.44E-06	4.65E-05	8.51E-06	2.8644E-03	
520295.57	4258262.99	59957.10428	0.26216	0.84725	0.26981	0.92655	2.75E-03	1.07E-05	3.03E-05	1.10E-05	3.18E-05	2.8346E-03	
520345.84	4258982.85	59921.64882	0.60228	0.17796	0.57395	0.19007	2.75E-03	2.47E-05	6.37E-06	2.35E-05	6.53E-06	2.8101E-03	
520365.62	4258972.82	59911.84877	0.53468	0.17245	0.5096	0.18356	2.75E-03	2.19E-05	6.17E-06	2.09E-05	6.30E-06	2.8039E-03	
520518.62	4258770.18	59907.19542	0.23437	0.1633	0.22467	0.1704	2.75E-03	9.60E-06	5.84E-06	9.20E-06	5.85E-06	2.7789E-03	
520099.3	4258422.38	59821.70777	50.0937	13.90391	54.6689	15.93435	2.74E-03	2.09E-05	4.97E-04	2.24E-05	5.47E-04	3.8321E-03	
520518.51	4258386.15	59813.7668	0.18607	0.22853	0.18517

520315.18	4258253.05	58622.96968	0.24907	0.74003	0.25595	0.80474	2.69E-03	1.02E-05	2.65E-05	1.05E-05	2.76E-05	2.7643E-03
520355.74	4258982.84	58565.30284	0.56766	0.1732	0.54075	0.18473	2.69E-03	2.32E-05	6.20E-06	2.21E-05	6.34E-06	2.7448E-03
520049.6	4258550.4	58504.54961	1.18236	7.54373	1.50489	5.2306	2.68E-03	4.84E-05	2.70E-04	6.16E-05	1.80E-04	3.2435E-03
520529.48	4258744.23	58454.55511	0.22091	0.16427	0.21159	0.17135	2.68E-03	9.04E-06	5.88E-06	8.66E-06	5.88E-06	2.7112E-03
520051.23	4258875.15	58422.17105	5.97633	0.51423	9.63062	0.49323	2.68E-03	2.45E-04	1.84E-05	3.94E-04	1.69E-05	3.3546E-03
520524.27	4258441.57	58353.97248	0.19025	0.21565	0.18792	0.22779	2.68E-03	7.79E-06	7.71E-06	7.69E-06	7.82E-06	2.7082E-03
520013.53	4258746.84	58340.73755	1.91565	0.90432	2.39682	0.85773	2.68E-03	7.84E-05	3.23E-05	9.81E-05	2.94E-05	2.9149E-03
520018.01	4258781.76	58318.50919	2.26729	0.74366	2.81123	0.71613	2.68E-03	9.28E-05	2.66E-05	1.15E-04	2.46E-05	2.9347E-03
520335.95	4258992.87	58285.84273	0.64102	0.17901	0.61061	0.19153	2.67E-03	2.62E-05	6.40E-06	2.50E-05	6.58E-06	2.7383E-03
520477.85	4258288.64	58255.52816	0.1894	0.28812	0.18973	0.30565	2.67E-03	7.75E-06	1.03E-05	7.77E-06	1.05E-05	2.7090E-03
520207.26	4259003.08	58234.73666	1.74543	0.2749	1.60936	0.27965	2.67E-03	7.15E-05	9.83E-06	6.59E-05	9.60E-06	2.8285E-03
520375.52	4258972.8	58227.78853	0.50531	0.16798	0.48132	0.17855	2.67E-03	2.07E-05	6.01E-06	1.97E-05	6.13E-06	2.7239E-03
520207.35	4258302.72	58223.24539	0.31916	1.837	0.33817	2.07121	2.67E-03	1.31E-05	6.57E-05	1.38E-05	7.11E-05	2.8349E-03
520017.12	4258664.6	58187.86172	1.58231	1.66595	2.02276	1.49974	2.67E-03	6.48E-05	5.96E-05	8.28E-05	5.15E-05	2.9282E-03
520306.27	4259002.92	58186.01607	0.77778	0.19119	0.73885	0.20487	2.67E-03	3.18E-05	6.84E-06	3.03E-05	7.03E-06	2.7454E-03
520524.45	4258416.19	58167.17724	0.18701	0.21901	0.18509	0.2314	2.67E-03	7.66E-06	7.83E-06	7.58E-06	7.94E-06	2.6996E-03
520373.94	4258243.24	58146.60235	0.22291	0.5085	0.22949	0.54719	2.67E-03	9.13E-06	1.82E-05	9.40E-06	1.88E-05	2.7232E-03
520459.95	4258270.97	58127.85537	0.19423	0.31454	0.1961	0.33559	2.67E-03	7.95E-06	1.13E-05	8.03E-06	1.15E-05	2.7055E-03
520463.4	4258884.54	58118.53856	0.31393	0.15692	0.29963	0.16536	2.67E-03	1.29E-05	5.61E-06	1.23E-05	5.68E-06	2.7028E-03
520472.65	4258870.71	58077.79841	0.29954	0.15664	0.2863	0.16501	2.66E-03	1.23E-05	5.60E-06	1.17E-05	5.66E-06	2.6998E-03
520383.73	4258243.27	58053.81823	0.21916	0.47958	0.22559	0.51561	2.66E-03	8.97E-06	1.72E-05	9.24E-06	1.77E-05	2.7165E-03
520364.15	4258243.21	58044.0473	0.22651	0.54002	0.23316	0.58158	2.66E-03	9.27E-06	1.93E-05	9.55E-06	2.00E-05	2.7211E-03
520109.15	4258402.41	58017.62765	0.46145	9.8017	0.48933	11.79989	2.66E-03	1.89E-05	3.51E-04	2.00E-05	4.05E-04	3.4564E-03
520037.65	4258849.56	57968.82987	3.92074	0.55472	5.23294	0.5376	2.66E-03	1.61E-04	1.98E-05	2.14E-04	1.85E-05	3.0726E-03
520412.57	4258945.61	57952.45915	0.41032	0.16208	0.39138	0.17087	2.66E-03	1.68E-05	5.80E-06	1.60E-05	5.87E-06	2.7032E-03
520039.73	4258579.53	57942.50988	1.35497	4.68102	1.84768	3.58376	2.66E-03	5.55E-05	1.67E-04	7.57E-05	1.23E-04	3.0799E-03
520158.28	4258342.56	57844.71869	0.36811	3.44421	0.3884	3.98681	2.65E-03	1.51E-05	1.23E-04	1.59E-05	1.37E-04	2.9448E-03
520354.36	4258243.18	57834.69559	0.23004	0.57416	0.23665	0.61915	2.65E-03	9.42E-06	2.05E-05	9.69E-06	2.13E-05	2.7142E-03
520256.38	4258272.87	57834.48873	0.28115	1.11405	0.29281	1.2736	2.65E-03	1.15E-05	4.13E-05	1.20E-05	4.39E-05	2.7620E-03
520148.46	4258352.53	57830.77037	0.3813	4.03717	0.40117	4.71787	2.65E-03	1.56E-05	1.44E-04	1.64E-05	1.62E-04	2.9916E-03
520393.52	4258243.3	57821.53805	0.21535	0.4529	0.22152	0.48659	2.65E-03	8.82E-06	1.62E-05	9.07E-06	1.67E-05	2.7035E-03
520454.38	4258888.28	57782.7481	0.32883	0.15722	0.31353	0.16566	2.65E-03	1.35E-05	5.62E-06	1.28E-05	5.69E-06	2.6886E-03
520432.64	4258253.42	57775.27534	0.20227	0.36318	0.20643	0.38916	2.65E-03	8.28E-06	1.30E-05	8.45E-06	1.34E-05	2.6937E-03
520430.14	4258928.33	57761.76049	0.37346	0.15951	0.35557	0.16799	2.65E-03	1.53E-05	5.71E-06	1.46E-05	5.77E-06	2.6913E-03
520482.16	4258856.76	57752.49356	0.28556	0.15627	0.27335	0.16444	2.65E-03	1.17E-05	5.59E-06	1.12E-05	5.65E-06	2.6837E-03
520538.05	4258699.84	57737.18318	0.20786	0.1694	0.19959	0.17721	2.65E-03	8.51E-06	6.06E-06	8.17E-06	6.08E-06	2.6777E-03
520105.1	4258947.35	57715.93437	9.84747	0.42215	8.31439	0.3905	2.65E-03	4.03E-04	1.51E-05	3.40E-04	1.34E-05	3.4200E-03
520011.37	4258717.52	57705.59409	1.71294	1.08346	2.1246	1.01345	2.65E-03	7.01E-05	3.88E-05	8.70E-05	3.48E-05	2.8781E-03
520305.39	4258253.02	57683.13089	0.25213	0.7935	0.25934	0.86502	2.65E-03	1.03E-05	2.84E-05	1.06E-05	2.97E-05	2.7254E-03
520533.11	4258735.58	57668.50777	0.21663	0.16451	0.20754	0.17168	2.65E-03	8.87E-06	5.88E-06	8.50E-06	5.89E-06	2.6749E-03
520236.77	4258282.81	57637.57982	0.29425	1.37211	0.30898	1.52974	2.64E-03	1.20E-05	4.91E-05	1.27E-05	5.25E-05	2.7706E-03
520086.47	4258929.67	57523.21176	15.66034	0.4448	17.7424	0.44171	2.64E-03	6.41E-04	1.59E-05	7.26E-04	1.42E-05	4.0368E-03
520275.99	4258262.93	57490.54318	0.26797	0.98565	0.27727	1.0849	2.64E-03	1.10E-05	3.53E-05	1.14E-05	3.72E-05	2.7324E-03
520344.57	4258243.15	57482.89694	0.23347	0.6113	0.23998	0.66027	2.64E-03	9.56E-06	2.19E-05	9.83E-06	2.27E-05	2.7011E-03
520197.36	4259003.1	57467.10817	1.93841	0.28549	1.77764	0.28716	2.64E-03	7.94E-05	1.02E-05	7.28E-05	9.86E-06	2.8087E-03
520138.64	4258362.5	57445.63148	0.39439	4.82252	0.41414	5.68892	2.64E-03	1.61E-05	1.72E-04	1.70E-05	1.95E-04	3.0364E-03
520316.17	4259002.9	57443.95927	0.72834	0.1854	0.69238	0.19874	2.64E-03	2.98E-05	6.63E-06	2.83E-05	6.82E-06	2.7070E-03
520403.3	4258243.33	57437.01179	0.21146	0.42834	0.21728	0.45989	2.64E-03	8.66E-06	1.53E-05	8.90E-06	1.58E-05	2.6838E-03
520502	4258319	57288.18359	0.18347	0.25643	0.18321	0.27004	2.63E-03	7.51E-06	9.17E-06	7.50E-06	9.27E-06	2.6617E-03
520256.78	4259013	57287.34267	1.11932	0.22251	1.05347	0.23479	2.63E-03	4.58E-05	7.96E-06	4.31E-05	8.06E-06	2.7332E-03
520346.88	4259013.02	57251.41552	1.2139	0.23087	1.1389	0.24227	2.63E-03	4.97E-05	8.26E-06	4.66E-05	8.32E-06	2.7395E-03
520468.73	4258274.72	57240.25749	0.19091	0.30174	0.19222	0.3212	2.63E-03	7.82E-06	1.08E-05	7.87E-06	1.10E-05	2.6636E-03
520395.31	4258962.77	57218.03947	0.45184	0.16331	0.43062	0.17286	2.63E-03	1.85E-05	5.84E-06	1.76E-05	5.93E-06	2.6730E-03
520040.82	4258860.86	57215.39045	4.30631	0.53134	5.92596	0.51411	2.62E-03	1.76E-04	1.90E-05	2.43E-04	1.76E-05	3.0805E-03
520266.68	4259012.98	57189.51256	1.03549	0.21458	0.97714	0.22746	2.62E-03	4.24E-05	7.68E-06	4.00E-05	7.81E-06	2.7216E-03
520062.34	4258899.72	57151.61917	9.15261	0.47684	16.05601	0.45271	2.62E-03	3.75E-04	1.71E-05	6.57E-04	1.55E-05	3.6867E-03
520345.85	4258992.85	57144.16506	0.60323	0.1742	0.57471	0.18614	2.62E-03	2.47E-05	6.23E-06	2.35E-05	6.39E-06	2.6825E-03
520504.97	4258817.3	57138.00906	0.25453	0.15681	0.24391	0.16427	2.62E-03	1.04E-05	5.61E-06	9.99E-06	5.64E-06	2.6530E-03
520445.55	4258911.95	57125.97621	0.34427	0.15732	0.32794	0.16571	2.62E-03	1.41E-05	5.63E-06	1.34E-05	5.69E-06	2.6597E-03
520365.64	4258982.82	57116.00614	0.53571	0.16875	0.51027	0.17972	2.62E-03	2.19E-05	6.04E-06	2.09E-05	6.17E-06	2.6754E-03
520404.29	4258772.79	57027.0168	2.06299	0.77295	2.5388	0.74194	2.62E-03	8.45E-05	2.76E-05	1.04E-04	2.55E-05	2.8578E-03
520236.98	4259013.03	57024.14394	1.32098	0.23962	1.23473	0.24981	2.62E-03	5.41E-05	8.57E-06	5.06E-05	8.58E-06	2.7379E-03
520334.78	4258243.12	56978.27025	0.23675	0.65181	0.24321	0.70536	2.61E-03	9.69E-06	2.33E-05	9.96E-06	2.42E-05	2.6812E-03
520496.2	4258306.51	56969.14968	0.18411	0.26413	0.18367	0.27868	2.61E-03	7.54E-06	9.45E-06	7.52E-06	9.57E-06	2.6477E-03
520276.58	4259012.97	56958.11556	0.96075	0.20708	0.90851	0.22033	2.61E-03	3.93E-05	7.41E-06	3.72E-05	7.56E-06	2.7046E-03
520486.72	4258292.44	56928.73071	0.18603	0.27648	0.18589	0.29273	2.61E-03	7.62E-06	9.89E-06	7.61E-06	1.00E-05	2.6469E-03
520217.17	4258292.75	56900.82495	0.30684	1.66126	0.32453	1.86482	2.61E-03	1.26E-05	5.94E-05	1.33E-05	6.40E-05	2.7598E-03
520413.09	4258243.36	56880.08465	0.20749	0.40571	0.21292	0.43524	2.61E-03	8.50E-06	1.45E-05	8.72E-06	1.49E-05	2.6562E-03
520052.46	4258885.65	56759.42128	6.26509	0.4925	10.47565	0.4721	2.60E-03	2.57E-04	1.76E-05	4.29E-04	1.62E-05	3.3233E-03
520227.08	4259013.05	56752.64962	1.44424	0.24898	1.34468	0.25752	2.60E-03	5.91E-05	8.91E-06	5.51E-05	8.84E-06	2.7356E-03
520177.92	4258322.63	56740.21173	0.34179	2.61419	0.36282	2.97154	2.60E-03	1.40E-05	9.35E-05	1.49E-05	1.02E-04	2.8275E-03
520536.73	4258726.93	56722.75178	0.21249	0.1645	0.20361	0.17181	2.60E-03	8.70E-06	5.88E-06	8.34E-06	5.90E-06	2.6312E-03
520421.21	4258942.04	56721.43005	0.39198	0.15964	0.374	0.16811	2.60E-03	1.60E-05	5.71E-06	1.53E-05	5.77E-06	2.6451E-03
520029.85	4258008.67	56667.42939	1.43258	3.05372	1.9179	2.54288	2.60E-03	5.87E-05	1.09E-04	7.85E-05	8.73E-05	2.9335E-03
520295.6	4258252.99	56659.44609	0.25506	0.85251	0.26283	0.9321	2.60E-03	1.04E-05	3.05E-05	1.08E-05	3.20E-05	2.6831E-03
520442.43	4258253.45	56635.37232	0.19799	0.34559	0.20163	0.36984	2.60E-03	8.11E-06	1.24E-05	8.26E-06	1.27E-05	2.6397E-03
520286.48	4259012.95	56603.10453	0.89375	0.22006	0.84663	0.21348	2.60E-03	3.66E-05	7.16E-06	3.47E-05	7.33E-06	2.6826E-03
520525.39	4258470.4	56579.49844	0.19269	0.21012	0.18965	0.2223	2.60E-03	7.89E-06	7.52E-06	7.77E-06	7.63E-06	2.6266E-03
520187.46	4259003.12	56578.65129	2.1685	0.2961	1.9769	0.29424	2.60E-03	8.88E-05	1.06E-05	8.09E-05	1.01E-05	2.7861E-03
520326.07	4259002.89	56574.51594	0.68321	0.18014	0.64997	0.19301	2.60E-03	2.80E-05	6.44E-06	2.66E-05	6.63E-06	2.6632E-03
520128.82	4258372.47	56555.99102	0.40709	5.90104	0.42745	7.00157	2.59E-03	1.67E-05	2.11E-04	1.75E-05	2.40E-04	3.0803E-03
520096.17	4258943.67	56508.48178	12.94703	0.42555	11.28113	0.39433	2.59E-03	5.30E-04	1.52E-05	4.62E-04	1.35E-05	3.6133E-03
520385.42	4258972.79	56463.61346	0.47809	0.16383	0.45538	0.17385	2.59E-03	1.96E-05	5.86E-06	1.86E-05	5.97E-06	2.6405E-03
520451.12	4258257.17	56355.49635	0.19509	0.33033	0.19811	0.3531	2.59E-03	7.99E-06	1.18E-05	8.11E-06	1.21E-05	2.6255E-03
520403.88	4258959.22	56334.2741	0.43119	0.16104	0.41093	0.17015	2.58E-03	1.77E-05	5.76E-06	1.68E-05	5.84E-06	2.6306E-03
520325	4258243.08	56327.48117	0.23987	0.69606	0.24638	0.7549	2.58E-03	9.82E-06	2.49E-05	1.01E-05	2.59E-05	2.6540E-03
520022.15	4258815.84	56318.6066	2.58888	0.62587	3.23065	0.60742	2.58E-03	1.06E-04	2.24E-05	1.32E-04	2.09E-05	2.8653E-03
520494.57	4258841.62	56295.14169	0.26894	0.15493	0.25767	0.16271	2.58E-03	1.10E-05	5.54E-06	1.06E-05	5.59E-06	2.6154E-03
520114.51	4258961.23	56289.13152	7.53376	0.40029	6.39801	0.37107	2.58E-03	3.08E-04	1.43E-05	2.62E-04	1.27E-05	3.1799E-03
520527.85	4258425.11	56268.26537	0.18626	0.21487	0.18411	0.22688	2.58E-03	7.63E-06	7.69E-06	7.54E-06	7.79E-06	2.6121E-03
520217.18	4259013.07	56244.0665	1.58544	0.25856	1.46932	0.26502	2.58E-03	6.49E-05	9.25E-06	6.02E-05	9.10E-06	2.7238E-03
520017.12	4258655.32	56220.07633	1.49953	1.78457	1.91759	1.59487	2.58E-03	6.14E-05	6.38E-05	7.85E-05	5.48E-05	2.8378E-03
520187.74	4258112.66	56218.8975	0.32981	2.30899	0.35	2.61994	2.58E-03	1.35E-05	8.26E-05	1.43E-05	8.99E-05	2.7796E-03
520541.44	4258691.73	56204.97161	0.20425	0.16927	0.1962	0.17699	2.58E-03	8.36E-06	6.05E-06	8.03E-06	6.08E-06	2.6071E-03
520009.76	4258737.74	56175.10011	1.73775	0.94156	2.1517	0.88881	2.58E-03	7.12E-05	3.37E-05	8.81E-05	3.05E-05	2.8006E-03
520422.88	4258243.39	56172.08589	0.20148	0.18482	0.20847	0.41246	2.58E-03	8.33E-06	1.38E-05	8.54E-06	1.42E-05	2.6219E-03
520477.51	4258278.48	56169.30548	0.18759	0.2897	0.18836	0.30766	2.58E-03	7.68E-06	1.04E-05	7.71E-06	1.06E-05	2.6133E-03
520140.2	4258981.82	56165.98561	0.34414	0.36245	3.79007	0.34134	2.58E-03	1.78E-04	1.30E-05	1.55E-04	1.17E-05	2.9345E-03
520296.38	4259012.93	56125.70219	0.83337	0.19342	0.79036	0.20686	2.57E-03	3.41E-05	6.92E-06	3.24E-05	7.10E-06	2.6554E-03
520246.59	4258272.84	56061.10856	0.28294	1.25953	0.29629	1.39954	2.57E-03	1.16E-05	4.51E-05	1.21E-05	4.80E-05	2.6888E-03
520266.2	4258262.9	56042.30271	0.27034	1.06788	0.28096	1.17907	2.57E-03	1.11E-05	3.82E-05	1.15E-05	4.05E-05	2.6724E-03
520438.86	4258924.73	56006.34258	0.35714	0.1567	0.34002	0.16499	2.57E-03	1.46E-05	5.60E-06	1.39E-05	5.66E-06	2.6093E-03
520027.5	4258835.38	55982.13246	2.99278	0.57601	3.78373	0.56023	2.57E-03	1.23E-04	2.06E-05	1.55E-04	1.92E-05	2.8856E-03
520471.93	4258881.01	55924.82844	0.30168	0.15418	0.28811	0.16239	2.57E-03	1.24E-05	5.51E-06	1.18E-05	5.58E-06	2.6010E-03
520010.73	4258691.86	55892.38768	1.54426	1.2899	1.92483	1.18653	2.56E-03	6.32E-05	4.61E-05	7.88E-05	4.07E-05	2.7931E-03
520522.98	4258368.03	55888.84787	0.18117	0.22714	0.18075	0.24003	2.56E-03	7.42E-06	8.12E-06	7.40E-06	8.24E-06	2.5953E-03
520355.75	4258992.84	55884.57771	0.56853	0.1696	0.54154	0.18097	2.56E-03	2.33E-05	6.07E-06	2.22E-05	6.21E-06	2.6216E-03
520459.82	4258260.89	55857.72888	0.19207	0.31623	0.19446	0.33753	2.56E-03	7.86E-06	1.13E-05	7.96E-06	1.16E-05	2.6014E-03
520042.28	4258871.46	55845.68983	4.50945	0.50857	6.33086	0.49178	2.56E-03	1.85E-04	1.82E-05	2.59E-04	1.69E-05	3.0410E-03
520462.83	4258894.79	55775.2243	0.31583	0.15447	0.30126	0.16271	2.56E-03	1.29E-05	5.53E-06	1.23E-05	5.59E-06	2.5952E-03
520518.38	4258794.68	55761.86858	0.23802	0.15701	0.22817	0.16401	2.56E-03	9.75E-06	5.62E-06	9.34E-06	5.63E-06	2.5886E-03
520481.26	4258867.14	55716.15816	0.28792	0.15387	0.27535	0.16195	2.56E-03	1.18E-05	5.50E-06	1.13E-05	5.56E-06	2.5903E-03
520521.96	4258786.15	55683.61827	0.23349	0.15761	0.22381	0.16451	2.55E-03	9.56E-06	5.64E-06	9.16E-06	5.65E-06	2.5847E-03
520207.27	4259013.08	55651.95105	1.75042	0.26854	1.61422	0.27242	2.55E-03	7.17E-05	9.61E-06	6.61E-05	9.35E-06	2.7099E-03
520018.48	4258807	55645.58616	2.35913	0.64439	2.92373	0.62813	2.55E-03	9.66E-05	2.32E-05	1.20E-04	2.16E-05	2.8140E-03
520526.99	4258389.78	55638.43616	0.18219	0.22021	0.18091	0.23285	2.55E-03	7.46E-06	7.88E-06	7.41E-06	7.99E-06	2.5833E-03
520540.35	4258718.28	55618.53092	0.20849	0.16438	0.19984	0.17181	2.55E-03	8.54E-06	5.88E-06	8.18E-06	5.90E-06	2.5802E-03
520335.97	4259002.87	55598.81809	0.64192	0.17515	0.61089	0.1875	2.55E-03	2.63E-05	6.26E-06	2.50E-05	6.44E-06	2.6148E-03
520177.55	4259003.13	55588.47438	2.44821	0.30651	2.21714	0.30078	2.55E-03	1.00E-04	1.10E-05	9.08E-05	1.03E-05	2.7626E-03
520375.54	4258982.8	55565.28695	0.50624	0.16449	0.48213	0.17492	2.55E-03	2.07E-05	5.88E-06	1.97E-05	6.01E-06	2.6016E-03
520315.21	4258243.05	55525.25621	0.2428	0.74472	0.24959	0.80954	2.55E-03	9.94E-06	2.66E-05	1.02E-05	2.78E-05	2.6220E-03
520226.98	4258282.78	55518.47751	0.29511	1.51092	0.31148	1.68898	2.55E-03	1.21E-05	5.40E-05	1.28E-05	5.80E-05	2.6839E-03
520525.53	4258777.61	55515.6609	0.22904	0.15822	0.21954	0.16501	2.55E-03	9.38E-06	5.66E-06	8.99E-06	5.66E-06	2.5766E-03
520503.84	4258827.77	55510.17626	0.25702	0.15461	0.24633	0.16206	2.55E-03	1.05E-05	5.53E-06	1.01E-05	5.56E-06	2.5784E-03
520285.81	4258252.96	55497.129	0.25772	0.91819	0.26636	1.0069	2.55E-03	1.06E-05	3.28E-05	1.09E-05	3.46E-05	2.6350E-03
520306.28	4259012.92	55495.69075	0.77868	0.18721	0.73908	0.20051	2.55E-03	3.19E-05	6.70E-06	3.03E-05	6.88E-06	2.6218E-03
520010.58	4258763.83	55469.08837	1.87321	0.80399	2.29964	0.76835	2.54E-03	7.67E-05	2.88E-05	9.42E-05	2.64E-05	2.7708E-03
520525.94	4258379.31	55462.46055	0.1813	0.22262	0.18041	0.23539	2.54E-03	7.42E-06	7.96E-06	7.39E-06	8.08E-06	2.5754E-03
520197.56	4258302.69	55432.80448	0.31796	2.05783	0.33726	2.32715	2.54E-03	1.30E-05	7.36E-05	1.38E-05	7.99E-05	2.7235E-03
520087.24	4258939.98	55367.98779	15.32321	0.42726	17.03636	0.39759	2.54E-03	6.27E-04	1.53E-05	6.98E-04	1.36E-05	3.8940E-03
520412.45	4258955.67	55344.17464	0.41174	0.15883	0.39257	0.16753	2.54E-03	1.69E-05	5.68E-06	1.61E-05	5.75E-06	2.5834E-03
520521.76	4258357.5	55324.42432	0.18021	0.23006	0.18009	0.24282	2.54E-03	7.38E-06	8.23E-06	7.37E-06	8.34E-06	2.5695E-03
520105.65	4258957.57	55319.85693	9.63781	0.40572	8.17073	0.37565	2.54E-03	3.95E-04	1.45E-05	3.35E-04	1.29E-05	3.2945E-03
520373.97	4258243.24	55318.88772	0.21842	0.51246	0.22482	0.5506	2.54E-03	8.94E-06	1.83E-05	9.21E-06	1.89E-05	2.5933E-03
520495.6	4258296.23	55272.70413	0.1826	0.26582	0.18222	0.28077	2.54E-03	7.48E-06	9.51E-06	7.46E-06	9.64E-06	2.5699E-03
520432.67	4258243.42	55269.35837	0.19939	0.36562	0.20396	0.39142	2.54E-03	8.16E-06	1.31E-05	8.35E-06	1.34E-05	2.5787E-03
520383.76	4258243.27	55265.3729	0.21493	0.44837	0.2213	0.51882	2.54E-03	8.80E-06	1.73E-05	9.06E-06	1.78E-05	2.5884E-03
520490.86	4258853.16	55255.76993	0.27458	0.15351	0.26297	0.16135	2.54E-03	1.12E-05	5.49E-06	1.08E-05	5.54E-06	2.5681E-03
520429.85	4258938.46	55255.44435	0.37515	0.15663	0.35708	0.16493	2.54E-03	1.54E-05	5.60E-06	1.46E-05	5.66E-06	2.5763E-03
520453.93	4258908.48	55247.95448	0.33032	0.15458	0.31475	0.16278	2.53E-03	1.35E-05	5.53E-06	1.29E-05	5.59E-06	2.5722E-03
520529.1	4258769.08	55240.90524	0.22471	0.15862	0.21529	0.16535	2.53E-03	9.20E-06	5.67E-06	8.81E-06	5.68E-06	2.5637E-03
520364.18	4258233.21	55211.0645	0.22178	0.54404	0.22814	0.5852	2.53E-03	9.08E-06	1.95E-05	9.34E-06	2.01E-05	2.5909E-03
520059.48	4258521.27	55174.71735	0.9535	13.20721	1.12797	7.76162	2.53E-03	3.90E-05	4.72E-04	4.62E-05	2.66E-04	3.3554E-03
520119	4258382.44	55120.09386	0.41956	7.43683	0.44093	8.97942	2.53E-03	1.72E-05	2.66E-04	1.81E-05	3.08E-04	3.1383E-03
520393.55	4258233.3	55114.21399	0.21142	0.45643	0.21761	0.4896	2.53E-03	8.66E-06	1.63E-05	8.91E-06	1.68E-05	2.5792E-03
520468.51	4258264.61	55109.86718	0.18895	0.30334	0.19076	0.32313	2.53E-03	7.74E-06	1.09E-05	7.81E-06	1.11E-05	2.5658E-03
520053.57	4258896.1	55084.76948	6.56251	0.47211	11.38423	0.45235	2.53E-03	2.69E-04	1.69E-05	4.66E-04	1.55E-05	3.2944E-03
520486.29	4258282.24	55030.58841	0.18437	0.27804	0.18457	0.29473	2.52E-03	7.55E-06	9.95E-06	7.56E-

520187.47	4259013.12	54119.0162	2.17614	0.28876	1.98433	0.28616	2.48E-03	8.91E-05	1.03E-05	8.12E-05	9.82E-06	2.6734E-03
520334.82	4258233.12	54078.7613	0.23118	0.65604	0.23742	0.70947	2.48E-03	9.47E-06	2.35E-05	9.72E-06	2.44E-05	2.5480E-03
520451.08	4258247.14	54075.3595	0.19268	0.33234	0.19616	0.35514	2.48E-03	7.89E-06	1.19E-05	8.03E-06	1.22E-05	2.5209E-03
520149.52	4258995.67	54073.61223	3.68338	0.33976	3.25293	0.32266	2.48E-03	1.51E-04	1.22E-05	1.33E-04	1.11E-05	2.7880E-03
520286.5	4259022.95	54042.35966	0.89464	0.196	0.84688	0.2089	2.48E-03	3.66E-05	7.01E-06	3.47E-05	7.17E-06	2.5648E-03
520326.08	4259012.89	54010.12892	0.68405	0.17624	0.64992	0.18888	2.48E-03	2.80E-05	6.30E-06	2.66E-05	6.48E-06	2.5453E-03
520531.6	4258409.1	53984.24051	0.18228	0.21374	0.18035	0.22572	2.48E-03	7.46E-06	7.65E-06	7.38E-06	7.75E-06	2.5069E-03
520017.12	4258646.05	53967.56951	1.41155	1.90682	1.80477	1.69131	2.48E-03	5.78E-05	6.82E-05	7.39E-05	5.81E-05	2.7339E-03
520385.44	4258982.79	53916.18569	0.479	0.16041	0.45612	0.17033	2.47E-03	1.96E-05	5.74E-06	1.87E-05	5.85E-06	2.5234E-03
520471.28	4258891.29	53848.75812	0.30166	0.15188	0.28866	0.15991	2.47E-03	1.24E-05	5.43E-06	1.19E-05	5.49E-06	2.5057E-03
520011.14	4258789.3	53805.49525	1.98003	0.69627	2.41165	0.67137	2.47E-03	8.11E-05	2.49E-05	9.87E-05	2.30E-05	2.6963E-03
520403.83	4258969.25	53790.40734	0.43242	0.15764	0.41177	0.16672	2.47E-03	1.77E-05	5.64E-06	1.69E-05	5.72E-06	2.5137E-03
520217.19	4259023.07	53787.7566	1.58822	0.25283	1.47242	0.25845	2.47E-03	6.50E-05	9.04E-06	6.03E-05	8.87E-06	2.6109E-03
520480.45	4258877.48	53759.34302	0.29009	0.1515	0.27721	0.15947	2.47E-03	1.19E-05	5.42E-06	1.14E-05	5.47E-06	2.5005E-03
520112.75	425897O.5	53737.75876	0.87503	0.38687	0.6966	0.35868	2.47E-03	3.22E-04	1.38E-05	2.74E-04	1.23E-05	3.0882E-03
520422.91	4258233.39	53728.94688	0.20035	0.38751	0.20559	0.41486	2.46E-03	8.20E-06	1.39E-05	8.42E-06	1.42E-05	2.5097E-03
520539.82	4258743.47	53721.31583	0.21222	0.15953	0.20323	0.1663	2.46E-03	8.69E-06	5.71E-06	8.32E-06	5.71E-06	2.4931E-03
520005.99	4258728.64	53703.78316	1.57224	0.97872	1.92789	0.91919	2.46E-03	6.44E-05	3.50E-05	7.89E-05	3.16E-05	2.6737E-03
520459.7	4258250.83	53677.71601	0.18987	0.31812	0.19276	0.33954	2.46E-03	7.77E-06	1.14E-05	7.89E-06	1.17E-05	2.5013E-03
520295.63	4258242.99	53604.11725	0.24818	0.85747	0.2562	0.93728	2.46E-03	1.02E-05	3.07E-05	1.05E-05	3.22E-05	2.5428E-03
520438.49	4258934.88	53602.84072	0.35876	0.15396	0.34145	0.16204	2.46E-03	1.47E-05	5.51E-06	1.40E-05	5.56E-06	2.4989E-03
520296.4	4259022.93	53596.15361	0.83417	0.18953	0.79051	0.2025	2.46E-03	3.42E-05	6.78E-06	3.24E-05	6.95E-06	2.5391E-03
520495.06	4258285.99	53585.14354	0.18108	0.26734	0.1809	0.28274	2.46E-03	7.41E-06	9.56E-06	7.41E-06	9.71E-06	2.4925E-03
520519.84	4258336.65	53573.26708	0.17792	0.23549	0.17797	0.2478	2.46E-03	7.28E-06	8.42E-06	7.29E-06	8.51E-06	2.4893E-03
520006.86	4258754.86	53564.82096	1.68996	0.83626	2.07927	0.79457	2.46E-03	6.92E-05	2.99E-05	8.51E-05	2.73E-05	2.6690E-03
520462.31	4258905.01	53542.38223	0.31757	0.15204	0.30277	0.16007	2.46E-03	1.30E-05	5.44E-06	1.24E-05	5.50E-06	2.4928E-03
520531.22	4258459.82	53523.11921	0.18823	0.2074	0.18542	0.2191	2.46E-03	7.71E-06	7.42E-06	7.59E-06	7.52E-06	2.4858E-03
520489.86	4258863.58	53430.41337	0.27695	0.15123	0.26504	0.15902	2.45E-03	1.13E-05	5.41E-06	1.09E-05	5.46E-06	2.4843E-03
520325.03	4258233.08	53424.24383	0.23403	0.7004	0.24045	0.75921	2.45E-03	9.58E-06	2.51E-05	9.85E-06	2.61E-05	2.5215E-03
520148.49	4258342.53	53417.9575	0.36086	4.0575	0.37792	4.73336	2.45E-03	1.48E-05	1.45E-04	1.55E-05	1.63E-04	2.7886E-03
520504.47	4258300.03	53400.32952	0.17918	0.25584	0.1787	0.26961	2.45E-03	7.34E-06	9.15E-06	7.32E-06	9.26E-06	2.4830E-03
520355.77	4259002.84	53346.95439	0.56936	0.16596	0.54173	0.1772	2.45E-03	2.33E-05	5.94E-06	2.22E-05	6.08E-06	2.5050E-03
520087.95	4258950.27	53298.27414	16.50572	0.41077	16.44111	0.38246	2.45E-03	6.76E-04	1.47E-05	6.73E-04	1.31E-05	3.8220E-03
520217.2	4258282.75	53276.37	0.29508	1.6721	0.31255	1.87362	2.44E-03	1.21E-05	5.98E-05	1.28E-05	6.43E-05	2.5932E-03
520207.29	4259023.08	53274.97654	1.75388	0.26248	1.61844	0.26552	2.44E-03	7.18E-05	9.39E-06	6.63E-05	9.12E-06	2.6007E-03
520033.34	4258867.77	53249.14449	3.53878	0.50332	4.61327	0.4897	2.44E-03	1.45E-04	1.80E-05	1.89E-04	1.68E-05	2.8116E-03
520039.69	4258569.84	53207.87675	1.2109	4.86356	1.59274	3.7197	2.44E-03	4.96E-05	1.74E-04	6.52E-05	1.28E-04	2.8575E-03
520177.57	4259013.13	53197.21512	2.45643	0.29855	2.22534	0.29226	2.44E-03	1.01E-04	1.07E-05	9.11E-05	1.00E-05	2.6530E-03
520485.9	4258272.06	53194.3661	0.18273	0.27909	0.18331	0.29628	2.44E-03	7.48E-06	9.98E-06	7.51E-06	1.02E-05	2.4756E-03
520168.13	4258322.6	53169.01698	0.33731	3.00231	0.35601	3.42576	2.44E-03	1.38E-05	1.07E-04	1.46E-05	1.18E-04	2.6927E-03
520335.99	4259012.87	53096.19728	0.64271	0.17135	0.6108	0.18352	2.44E-03	2.63E-05	6.13E-06	2.50E-05	6.30E-06	2.4997E-03
520375.56	4258992.8	53059.77155	0.5071	0.16101	0.48262	0.17133	2.43E-03	2.08E-05	5.76E-06	1.98E-05	5.88E-06	2.4864E-03
520468.31	4258254.52	53043.61475	0.18692	0.30508	0.18926	0.32506	2.43E-03	7.65E-06	1.09E-05	7.75E-06	1.12E-05	2.4710E-03
520306.3	4259022.92	53027.64203	0.77944	0.18346	0.7392	0.19636	2.43E-03	3.19E-05	6.55E-06	3.03E-05	6.74E-06	2.5083E-03
520547.59	4258700.97	52990.64375	0.20083	0.16422	0.19273	0.17166	2.43E-03	8.22E-06	5.87E-06	7.89E-06	5.89E-06	2.4590E-03
520177.95	4258312.63	52979.38933	0.3264	2.6264	0.34499	2.99029	2.43E-03	1.34E-05	9.39E-05	1.41E-05	1.03E-04	2.6547E-03
520044.8	4258892.48	52967.57124	4.93667	0.46711	7.16145	0.45128	2.43E-03	2.02E-04	1.67E-05	2.93E-04	1.55E-05	2.9576E-03
520512.2	4258824.31	52963.85553	0.24788	0.15201	0.23761	0.15914	2.43E-03	1.01E-05	5.44E-06	9.73E-06	5.46E-06	2.4607E-03
520432.7	4258233.42	52952.63398	0.19652	0.36798	0.20137	0.39359	2.43E-03	8.05E-06	1.32E-05	8.24E-06	1.35E-05	2.4723E-03
520543.4	4258734.94	52949.99644	0.20826	0.15957	0.19945	0.16646	2.43E-03	8.53E-06	5.71E-06	8.17E-06	5.71E-06	2.4574E-03
520138.67	4258352.5	52933.44512	0.37227	4.84359	0.38911	5.70705	2.43E-03	1.52E-05	1.73E-04	1.59E-05	1.96E-04	2.8288E-03
520109.18	4258392.41	52924.318	0.43063	9.82729	0.4548	11.84313	2.43E-03	1.76E-05	3.52E-04	1.86E-05	4.07E-04	3.2224E-03
520029.81	4258598.97	52884.42774	1.29539	3.21443	1.71407	2.65889	2.43E-03	5.30E-05	1.15E-04	7.02E-05	9.13E-05	2.7557E-03
520266.23	4258252.9	52872.67757	0.26217	1.07409	0.27326	1.18533	2.43E-03	1.07E-05	3.84E-05	1.12E-05	4.07E-05	2.5267E-03
520429.59	4258948.58	52871.41079	0.3767	0.15374	0.35845	0.16188	2.43E-03	1.54E-05	5.50E-06	1.47E-05	5.56E-06	2.4668E-03
520412.34	4258965.73	52866.42353	0.41317	0.1555	0.39347	0.16418	2.43E-03	1.69E-05	5.56E-06	1.61E-05	5.64E-06	2.4696E-03
520499.55	4258849.56	52840.19078	0.26423	0.15082	0.25314	0.15834	2.42E-03	1.08E-05	5.39E-06	1.04E-05	5.44E-06	2.4562E-03
520246.62	4258262.84	52797.09305	0.27367	1.2669	0.28736	1.40697	2.42E-03	1.12E-05	4.53E-05	1.18E-05	4.83E-05	2.5388E-03
520103.61	4258966.72	52765.92673	10.1761	0.39125	8.69025	0.36269	2.42E-03	4.17E-04	1.40E-05	3.56E-04	1.25E-05	3.2197E-03
520383.79	4258223.27	52693.7461	0.21077	0.48693	0.21695	0.52189	2.42E-03	8.63E-06	1.74E-05	8.88E-06	1.79E-05	2.4703E-03
520374	4258223.24	52665.99325	0.21395	0.51624	0.22012	0.55382	2.42E-03	8.76E-06	1.85E-05	9.01E-06	1.90E-05	2.4715E-03
520315.24	4258233.05	52633.38288	0.23669	0.74913	0.24353	0.81401	2.41E-03	9.69E-06	2.68E-05	9.97E-06	2.79E-05	2.4891E-03
520197.39	4259023.1	52630.88976	1.94881	0.27216	1.78884	0.27222	2.41E-03	7.98E-05	9.73E-06	7.32E-05	9.35E-06	2.5867E-03
520514.15	4258314.19	52627.47405	0.17709	0.24417	0.17673	0.25678	2.41E-03	7.25E-06	8.73E-06	7.24E-06	8.82E-06	2.4465E-03
520007.47	4258780.46	52597.54505	1.81517	0.7217	2.19534	0.69373	2.41E-03	7.43E-05	2.58E-05	8.99E-05	2.38E-05	2.6269E-03
520393.58	4258223.3	52568.44161	0.20748	0.45987	0.21361	0.49248	2.41E-03	8.50E-06	1.64E-05	8.75E-06	1.69E-05	2.4623E-03
520364.21	4258223.21	52566.05598	0.21711	0.54783	0.22317	0.58863	2.41E-03	8.89E-06	1.96E-05	9.14E-06	2.02E-05	2.4695E-03
520059.43	4258918.51	52537.50618	8.30808	0.4369	18.78784	0.41671	2.41E-03	3.40E-04	1.56E-05	7.69E-04	1.43E-05	3.5497E-03
520285.84	4258242.96	52495.07635	0.25056	0.92333	0.25955	1.01236	2.41E-03	1.03E-05	3.30E-05	1.06E-05	3.48E-05	2.4970E-03
520187.77	4258302.66	52447.34572	0.31536	2.32254	0.3339	2.63168	2.41E-03	1.29E-05	8.31E-05	1.37E-05	9.03E-05	2.6062E-03
520403.37	4258223.33	52371.39693	0.20418	0.43471	0.2101	0.46538	2.40E-03	8.36E-06	1.55E-05	8.60E-06	1.60E-05	2.4512E-03
520456.29	4258917.51	52369.84253	0.32732	0.15115	0.3118	0.15907	2.40E-03	1.34E-05	5.41E-06	1.28E-05	5.46E-06	2.4397E-03
520049.56	425840.7	52344.02875	1.03533	7.62916	1.2709	5.3466	2.40E-03	4.24E-05	2.73E-04	5.20E-05	1.84E-04	2.9523E-03
520534.94	4258417.86	52330.15172	0.18154	0.20985	0.17939	0.22144	2.40E-03	7.43E-06	7.51E-06	7.34E-06	7.60E-06	2.4307E-03
520354.42	4258223.18	52305.21392	0.22013	0.58213	0.22611	0.62656	2.40E-03	9.01E-06	2.08E-05	9.26E-06	2.15E-05	2.4603E-03
520316.2	425902.9	52304.18117	0.72959	0.17776	0.6922	0.19046	2.40E-03	2.99E-05	6.36E-06	2.83E-05	6.54E-06	2.4707E-03
520476.93	4258258.21	52259.10792	0.18393	0.29283	0.1857	0.31146	2.40E-03	7.53E-06	1.05E-05	7.60E-06	1.07E-05	2.4338E-03
520015.13	4258823.02	52252.81191	2.24438	0.59076	2.73789	0.57439	2.40E-03	9.19E-05	2.11E-05	1.12E-04	1.97E-05	2.6421E-03
520049.2	4258904.29	52229.04617	5.72055	0.45004	8.91349	0.43333	2.40E-03	2.34E-04	1.61E-05	3.65E-04	1.49E-05	3.0263E-03
520256.81	425903 3	52187.50346	1.12134	0.21323	1.05434	0.2242	2.39E-03	4.59E-05	7.63E-06	4.32E-05	7.70E-06	2.4987E-03
520534.65	4258442.96	52161.93531	0.18452	0.20707	0.18201	0.21849	2.39E-03	7.56E-06	7.41E-06	7.45E-06	7.50E-06	2.4230E-03
520266.71	4259032.98	52161.39039	1.03758	0.20588	0.97815	0.21753	2.39E-03	4.25E-05	7.36E-06	4.00E-05	7.47E-06	2.4904E-03
520531.95	4258371.87	52160.98345	0.17731	0.21829	0.17651	0.23064	2.39E-03	7.26E-06	7.81E-06	7.23E-06	7.92E-06	2.4233E-03
520227.02	4258272.78	52160.46211	0.2845	1.51982	0.30077	1.69736	2.39E-03	1.16E-05	5.44E-05	1.23E-05	5.83E-05	2.5296E-03
520246.91	4259033.02	52158.56943	1.2162	0.22111	1.14031	0.23112	2.39E-03	4.98E-05	7.91E-06	4.67E-05	7.93E-06	2.5053E-03
520395.34	4258982.77	52155.39248	0.45387	0.15639	0.43183	0.16583	2.39E-03	1.86E-05	5.59E-06	1.77E-05	5.69E-06	2.4403E-03
520167.67	4259013.15	52150.79861	2.79852	0.30764	2.51735	0.29757	2.39E-03	1.15E-04	1.10E-05	1.03E-04	1.02E-05	2.6315E-03
520442.49	4258233.45	52104.8772	0.19273	0.34973	0.1971	0.37383	2.39E-03	7.89E-06	1.25E-05	8.07E-06	1.28E-05	2.4318E-03
520345.89	4259012.85	52085.90549	0.60481	0.1668	0.57493	0.17845	2.39E-03	2.48E-05	5.97E-06	2.35E-05	6.13E-06	2.4500E-03
520365.67	425902.82	52077.91488	0.53737	0.16171	0.51118	0.17242	2.39E-03	2.20E-05	5.78E-06	2.09E-05	5.92E-06	2.4439E-03
520034.75	4258878.34	52059.04821	3.69518	0.48221	4.86576	0.46908	2.39E-03	1.51E-04	1.72E-05	1.99E-04	1.61E-05	2.7722E-03
520546.97	4258726.4	52046.27685	0.20442	0.15946	0.1958	0.16649	2.39E-03	8.37E-06	5.70E-06	8.02E-06	5.72E-06	2.4156E-03
520020.34	4258842.42	52037.74906	2.5567	0.54539	3.15349	0.53178	2.39E-03	1.05E-04	1.95E-05	1.29E-04	1.83E-05	2.6590E-03
520237.01	4259033.03	52027.95404	1.32402	0.22943	1.23738	0.23813	2.39E-03	5.42E-05	8.21E-06	5.07E-05	8.18E-06	2.5082E-03
520128.85	4258362.47	52024.00474	0.38325	5.92358	0.40067	7.02607	2.39E-03	1.57E-05	2.12E-04	1.64E-05	2.41E-04	2.8719E-03
520530.6	4258361.28	51965.60785	0.17651	0.22109	0.17608	0.23341	2.38E-03	7.23E-06	7.91E-06	7.21E-06	8.01E-06	2.4144E-03
520451.47	4258237.29	51960.31983	0.19014	0.33347	0.19395	0.35623	2.38E-03	7.79E-06	1.19E-05	7.94E-06	1.22E-05	2.4237E-03
520276.61	4259032.97	51959.98386	0.96259	0.19884	0.90928	0.21094	2.38E-03	3.94E-05	7.11E-06	3.72E-05	7.24E-06	2.4748E-03
520158.68	4259009.44	51954.89706	1.17976	0.31851	2.83875	0.30509	2.38E-03	1.30E-04	1.14E-05	1.16E-04	1.05E-05	2.6518E-03
520413.16	4258223.36	51938.97954	0.20068	0.41164	0.20641	0.44032	2.38E-03	8.22E-06	1.47E-05	8.45E-06	1.51E-05	2.4294E-03
520503.84	4258289.75	51937.56694	0.17777	0.25747	0.17738	0.27163	2.38E-03	7.28E-06	9.21E-06	7.26E-06	9.33E-06	2.4159E-03
520447.13	4258931.31	51935.67111	0.34331	0.15129	0.33681	0.15918	2.38E-03	1.41E-05	5.41E-06	1.34E-05	5.44E-06	2.4210E-03
520494.59	4258275.78	51930.65186	0.17954	0.26867	0.17968	0.28452	2.38E-03	7.35E-06	9.61E-06	7.36E-06	9.77E-06	2.4166E-03
520094.46	4258962.95	51925.37528	13.68566	0.39444	12.14811	0.36641	2.38E-03	5.60E-04	1.41E-05	4.97E-04	1.26E-05	3.4667E-03
520479.72	4258887.79	51889.70253	0.29201	0.14953	0.27916	0.15731	2.38E-03	1.20E-05	5.35E-06	1.14E-05	5.40E-06	2.4147E-03
520019.93	4258628.11	51863.93831	1.32087	2.24134	1.70421	1.94819	2.38E-03	5.41E-05	8.02E-05	6.98E-05	6.69E-05	2.6503E-03
520344.64	4258223.15	51860.30452	0.22294	0.61948	0.22897	0.66789	2.38E-03	9.13E-06	2.22E-05	9.37E-06	2.29E-05	2.4428E-03
520187.49	4259023.12	51854.65768	2.18105	0.2817	1.99037	0.27846	2.38E-03	8.93E-05	1.01E-05	8.15E-05	9.56E-06	2.5694E-03
520420.85	4258962.2	51829.59005	0.39513	0.15333	0.37623	0.16164	2.38E-03	1.62E-05	5.48E-06	1.54E-05	5.55E-06	2.4205E-03
520113.27	425898O.7	51821.79389	7.89723	0.37383	6.66998	0.34655	2.38E-03	3.23E-04	1.34E-05	2.73E-04	1.19E-05	2.9992E-03
520197.59	4258292.69	51804.50569	0.30468	2.07052	0.32281	2.33741	2.38E-03	1.25E-05	7.41E-05	1.32E-05	8.02E-05	2.5567E-03
520007.12	4258683.15	51795.19095	1.37204	1.32904	1.6948	1.21691	2.38E-03	5.62E-05	4.75E-05	6.94E-05	4.18E-05	2.5911E-03
520525.4	4258801.87	51774.07296	0.23236	0.15207	0.22269	0.15879	2.38E-03	9.51E-06	5.44E-06	9.12E-06	5.45E-06	2.4048E-03
520227.11	4259033.05	51773.26276	1.44734	0.23812	1.3476	0.24511	2.38E-03	5.93E-05	8.52E-06	5.52E-05	8.41E-06	2.5066E-03
520470.69	4258001.54	51771.97826	0.3054	0.14951	0.29135	0.15734	2.38E-03	1.25E-05	5.35E-06	1.19E-05	5.40E-06	2.4104E-03
520305.45	4258233.02	51756.46872	0.23922	0.80275	0.24669	0.8747	2.37E-03	9.79E-06	2.87E-05	1.01E-05	3.00E-05	2.4531E-03
520534.32	4258382.9	51728.63554	0.17759	0.2147	0.17634	0.22687	2.37E-03	7.27E-06	7.68E-06	7.22E-06	7.79E-06	2.4032E-03
520528.93	4258793.43	51719.30066	0.22807	0.15266	0.21857	0.15929	2.37E-03	9.34E-06	5.46E-06	8.95E-06	5.47E-06	2.4020E-03
520149.69	4259005.73	51684.17746	3.65988	0.32897	3.24065	0.31221	2.37E-03	1.50E-04	1.18E-05	1.33E-04	1.07E-05	2.6762E-03
520286.51	4259032.95	51649.89643	0.89537	0.19214	0.84701	0.20452	2.37E-03	3.67E-05	6.87E-06	3.47E-05	7.02E-06	2.4548E-03
520003.14	4258745.9	51643.42803	1.54648	0.86765	1.88355	0.82097	2.37E-03	6.33E-05	3.10E-05	7.71E-05	2.82E-05	2.5606E-03
520488.97	4258873.96	51642.74893	0.27914	0.14893	0.26693	0.15663	2.37E-03	1.14E-05	5.33E-06	1.09E-05	5.38E-06	2.4023E-03
520460.45	4258241.14	51603.4084	0.18738	0.31853	0.19063	0.33991	2.37E-03	7.67E-06	1.14E-05	7.81E-06	1.17E-05	2.4060E-03
520011.5	4258344.28	51587.76101	2.06004	0.61102	2.50103	0.59283	2.37E-03	8.43E-05	2.18E-05	1.02E-04	2.04E-05	2.5957E-03
520532.46	4258785	51585.3233	0.22385	0.1533	0.21455	0.15983	2.37E-03	9.17E-06	5.48E-06	8.78E-06	5.49E-06	2.3956E-03
520326.1	425902 2.89	51546.71655	0.68439	0.17253	0.6495	0.18491	2.36E-03	2.80E-05	6.17E-06	2.66E-05	6.35E-06	2.4320E-03
520529.45	4258350.78	51534.27337	0.17559	0.22377	0.1754	0.23595	2.36E-03	7.19E-06	8.00E-06	7.18E-06	8.10E-06	2.3948E-03
520385.46	4258992.79	51522.71008	0.47982	0.15705	0.45662	0.16687	2.36E-03	1.96E-05	5.62E-06	1.87E-05	5.73E-06	2.4135E-03
520551.22	4258692.32	51497.93615	0.19717	0.16419	0.18933	0.17151	2.36E-03	8.07E-06	5.87E-06	7.75E-06	5.89E-06	2.3902E-03
520017.12	4258636.77	51496.34068	1.31954	2.02975	1.68549	1.78629	2.36E-03	5.40E-05	7.26E-05	6.90E-05	6.13E-05	2.6195E-03
520022.72	4258853.39	51493.17727	2.71947	0.5215	3.3783	0.50893	2.36E-03	1.11E-04	1.87E-05	1.38E-04	1.75E-05	2.6482E-03
520511.13	4258834.76	51485.41954	0.2502	0.14979	0.23979	0.15692	2.36E-03	1.02E-05	5.36E-06	9.82E-06	5.39E-06	2.3929E-03
520485.55	4258261.89	51427.13856	0.181	0.28097	0.1821	0.29846	2.36E-03	7.41E-06	1.00E-05	7.46E-06	1.02E-05	2.3945E-03
520217.21	4259033.07	51411.27756	1.58964	0.24714	1.47397	0.252	2.36E-03	6.51E-05	8.84E-06	6.04E-05	8.65E-06	2.5016E-03
520403.79	4258979.27	51410.35652	0.43352	0.15425	0.41242	0.16329	2.36E-03	1.78E-05	5.52E-06	1.69E-05	5.61E-06	2.4044E-03
520256.44	4258252.87	51393.36114	0.26375	1.16754	0.27629	1.29228	2.36E-03	1.08E-05	4.18E-05	1.13E-05	4.44E-05	2.4661E-03
520513.34	4258303.83	51390.38429	0.1758	0.24625	0.17533	0.25902	2.36E-03	7.20E-06	8.81E-06	7.18E-06	8.89E-06	2.3898E-03
520422.94	4258223.39	51389.70531	0.19714	0.39028	0.20259	0.41718	2.36E-03	8.07E-06	1.40E-05	8.29E-06	1.43E-05	2.4023E-03
520140.71	4259002.02	51382.53332	4.29441	0.33894	3.76041	0.31895	2.36E-03	1.76E-04	1.21E-05	1.54E-04	1.09E-05	2.7102E-03
520535.99	4258776.56	51368.47685	0.21971	0.1539	0.21058	0.16032	2.36E-03	9.00E-06	5.50E-06	8.62E-06	5.50E-06	2.3853E-03
520438.16	4258945.03	51356.61052	0.36031	0.15123	0.34285	0.15913	2.36E-03	1.48E-05	5.41E-06	1.40E-05	5.46E-06	2.3958E-03
520334.85	4258223.12	51355.84737	0.22573	0.66005	0.23186	0.71333	2.36E-03	9.24E-06	2.36E-05	9.49E-06	2.45E-05	2.4229E-03
520004.25	4258700.34	51337.42457	1.38572	1.16109	1.69441	1.07433	2.36E-03	5.67E-05	4.15E-05	6.94E-05	3.69E-05	2.5598E-03
520276.05	4258242.93	51285.56373	0.25264	0.99701	0.26282	1.09652	2.35E-03	1.03E-05	3.57E-05	1.08E-05	3.76E-05	2.4473E-03
520296.42	4259032.93	51231.94341	0.83473	0.18577	0.79036	0.19827	2.35E-03	3.42E-05	6.64E-06	3.24E-05	6.81E-06	2.4304E-03
520498.46	4258860.02	51218.71692	0.26657	0.14867	0.25531	0.15615	2.35E-03	1.09E-05	5.32E-06	1.05E-05	5.36E-06	2.3819E-03
520003.81	4258771.61	51181.73719	1.66241	0.7483	2.002	0.71654	2.35E-03	6.81E-05	2.68E-05	8.20E-05	2.46E-05	2.5495E-03
520534.69	4258468.95	51082.91247	0.18702	0.20315	0.18388	0.21469	2.34E-03	7.66E-06	7.27E-06	7.53

520040.1	4258900.54	50186.90411	4.32893	0.44531	5.9603	0.43208	2.30E-03	1.77E-04	1.59E-05	2.44E-04	1.48E-05	2.7545E-03
520546.59	4258751.26	50135.92322	0.20782	0.15494	0.19907	0.16132	2.30E-03	8.51E-06	5.54E-06	8.15E-06	5.54E-06	2.3279E-03
520364.24	4258213.21	50124.80387	0.21259	0.55128	0.21832	0.59191	2.30E-03	8.70E-06	1.97E-05	8.94E-06	2.03E-05	2.3573E-03
520512.62	4258293.51	50087.11755	0.17445	0.24812	0.174	0.26111	2.30E-03	7.14E-06	8.87E-06	7.12E-06	8.96E-06	2.3300E-03
520316.22	4259032.9	50052.05277	0.73016	0.17428	0.69214	0.18663	2.30E-03	2.99E-05	6.23E-06	2.83E-05	6.41E-06	2.3672E-03
520217.23	4258272.75	50047.74357	0.28405	1.68176	0.30095	1.8825	2.30E-03	1.16E-05	6.02E-05	1.23E-05	6.46E-05	2.4448E-03
520442.52	4258223.45	50027.51265	0.19005	0.35187	0.19467	0.37578	2.30E-03	7.78E-06	1.26E-05	7.97E-06	1.29E-05	2.3364E-03
520479.07	4258898.07	50024.81409	0.29389	0.14726	0.28074	0.15488	2.30E-03	1.20E-05	5.27E-06	1.15E-05	5.32E-06	2.3292E-03
520403.4	4258213.33	50020.49217	0.20047	0.43788	0.20636	0.46796	2.29E-03	8.21E-06	1.57E-05	8.45E-06	1.61E-05	2.3432E-03
520167.69	4259023.15	50019.17754	2.80632	0.29947	2.53245	0.2891	2.29E-03	1.15E-04	1.07E-05	1.03E-04	9.93E-06	2.5338E-03
520451.41	4258227.26	49978.86458	0.18772	0.33537	0.19182	0.3581	2.29E-03	7.69E-06	1.20E-05	7.85E-06	1.23E-05	2.3328E-03
520266.26	4258242.9	49978.74312	0.25435	1.07993	0.26585	1.19131	2.29E-03	1.04E-05	3.86E-05	1.09E-05	4.09E-05	2.3938E-03
520315.27	4258223.05	49969.18471	0.23081	0.75318	0.23779	0.81824	2.29E-03	9.45E-06	2.69E-05	9.74E-06	2.81E-05	2.3667E-03
520099.36	4258402.38	49956.11732	0.44004	14.01788	0.46876	15.73276	2.29E-03	1.80E-05	5.01E-04	1.92E-05	5.40E-04	3.3706E-03
520095.14	4258973.22	49932.56186	13.38111	0.37983	11.83297	0.35309	2.29E-03	5.48E-04	1.36E-05	4.84E-04	1.21E-05	3.3489E-03
520488.17	4258884.29	49923.47747	0.28108	0.14693	0.26883	0.15449	2.29E-03	1.15E-05	5.26E-06	1.10E-05	5.30E-06	2.3235E-03
520266.73	4259042.98	49887.79774	1.03819	0.20173	0.97811	0.21279	2.29E-03	4.25E-05	7.22E-06	4.00E-05	7.31E-06	2.3858E-03
520395.36	4258992.77	49884.01248	0.45465	0.15313	0.43236	0.1625	2.29E-03	1.86E-05	5.48E-06	1.77E-05	5.58E-06	2.3360E-03
520554.12	4258709.33	49855.29915	0.19708	0.15927	0.18896	0.16642	2.29E-03	8.07E-06	5.70E-06	7.74E-06	5.71E-06	2.3145E-03
520158.77	4259019.47	49841.20528	3.18862	0.30963	2.84869	0.29611	2.29E-03	1.31E-04	1.11E-05	1.17E-04	1.02E-05	2.5551E-03
520354.46	4258213.18	49835.52557	0.21536	0.5856	0.22107	0.62994	2.29E-03	8.82E-06	2.09E-05	9.05E-06	2.16E-05	2.3468E-03
520246.93	4259043.02	49834.12762	1.21655	0.21646	1.14023	0.22582	2.29E-03	4.98E-05	7.74E-06	4.67E-05	7.75E-06	2.3983E-03
520256.83	4259043	49822.00083	1.12107	0.20875	1.05353	0.21911	2.29E-03	4.59E-05	7.47E-06	4.31E-05	7.52E-06	2.3898E-03
520345.9	4259022.85	49814.4603	0.6054	0.16324	0.57474	0.17474	2.29E-03	2.48E-05	5.84E-06	2.35E-05	6.00E-06	2.3455E-03
520004.25	4258796.8	49803.90937	1.74678	0.65376	2.09638	0.63103	2.28E-03	7.15E-05	2.34E-05	8.58E-05	2.17E-05	2.4873E-03
520365.69	4259012.82	49802.85003	0.53797	0.15836	0.5114	0.16895	2.28E-03	2.20E-05	5.66E-06	2.09E-05	5.80E-06	2.3393E-03
520246.66	4258252.84	49796.45581	0.26476	1.27394	0.27867	1.41373	2.28E-03	1.08E-05	4.56E-05	1.14E-05	4.85E-05	2.4009E-03
520237.03	4259043.03	49778.72409	1.32514	0.22463	1.23836	0.23262	2.28E-03	5.43E-05	8.03E-06	5.07E-05	7.99E-06	2.4047E-03
520446.73	4258941.48	49777.30603	0.34463	0.14864	0.32798	0.15634	2.28E-03	1.41E-05	5.32E-06	1.34E-05	5.37E-06	2.3219E-03
520285.87	4258232.96	49715.23902	0.24365	0.92823	0.25303	1.01746	2.28E-03	9.98E-06	3.32E-05	1.04E-05	3.49E-05	2.3693E-03
520276.63	4259042.97	49700.08087	0.96315	0.1949	0.90916	0.20646	2.28E-03	3.94E-05	6.97E-06	3.72E-05	7.09E-06	2.3709E-03
520460.31	4258231.06	49688.35545	0.18516	0.32037	0.18877	0.3418	2.28E-03	7.58E-06	1.15E-05	7.73E-06	1.17E-05	2.3181E-03
520413.19	4258213.36	49681.83144	0.19724	0.41455	0.203	0.44274	2.28E-03	8.08E-06	1.48E-05	8.31E-06	1.52E-05	2.3257E-03
520025.9	4258874.69	49671.07449	2.97054	0.478	3.73421	0.46695	2.28E-03	1.22E-04	1.71E-05	1.53E-04	1.60E-05	2.5865E-03
520168.16	4259012.6	49669.10503	0.32169	3.01447	0.33777	3.44665	2.28E-03	1.32E-05	1.08E-04	1.38E-05	1.18E-04	2.5319E-03
520420.69	4258972.28	49635.33393	0.39637	0.15032	0.37739	0.15858	2.28E-03	1.62E-05	5.38E-06	1.55E-05	5.44E-06	2.3197E-03
520497.49	4258870.43	49589.53069	0.26876	0.14647	0.25723	0.1539	2.28E-03	1.10E-05	5.24E-06	1.05E-05	5.28E-06	2.3071E-03
520149.85	4259015.79	49578.11913	3.66539	0.31928	3.24685	0.30267	2.27E-03	1.50E-04	1.14E-05	1.33E-04	1.04E-05	2.5794E-03
520158.34	4258322.56	49575.84239	0.33155	3.48448	0.34726	3.98903	2.27E-03	1.36E-05	1.24E-04	1.42E-05	1.37E-04	2.5642E-03
520227.13	4259043.05	49557.11074	1.44862	0.23309	1.34917	0.23934	2.27E-03	5.93E-05	8.34E-06	5.52E-05	8.22E-06	2.4047E-03
520000.14	4258762.77	49512.7052	1.51737	0.77591	1.82693	0.73932	2.27E-03	6.21E-05	2.78E-05	7.48E-05	2.54E-05	2.4616E-03
520550.12	4258742.83	49510.13172	0.20404	0.11508	0.19546	0.16156	2.27E-03	8.35E-06	5.55E-06	8.00E-06	5.55E-06	2.2988E-03
520487.38	4258252.66	49492.95819	0.17858	0.27941	0.18	0.29694	2.27E-03	7.31E-06	9.99E-06	7.37E-06	1.02E-05	2.3055E-03
520187.51	4259033.12	49480.79549	2.17737	0.27429	1.98822	0.2706	2.27E-03	8.92E-05	9.81E-06	8.14E-05	9.29E-06	2.4597E-03
520177.98	4258302.63	49446.00498	0.31167	2.64031	0.33825	3.00201	2.27E-03	1.28E-05	9.44E-05	1.34E-05	1.03E-04	2.4922E-03
519999.42	4258736.93	49444.58686	1.40886	0.89888	1.70178	0.8466	2.27E-03	5.77E-05	3.22E-05	6.97E-05	2.91E-05	2.4570E-03
520344.67	4258213.15	49384.24692	0.21796	0.62301	0.2238	0.67146	2.27E-03	8.92E-06	2.23E-05	9.16E-06	2.31E-05	2.3291E-03
520326.12	4259032.89	49377.9411	0.68499	0.16918	0.64959	0.18128	2.27E-03	2.80E-05	6.05E-06	2.66E-05	6.22E-06	2.3323E-03
520286.53	4259042.95	49323.81678	0.89539	0.18821	0.84601	0.20009	2.26E-03	3.67E-05	6.73E-06	3.46E-05	6.87E-06	2.3478E-03
520437.86	4258955.16	49313.96182	0.36195	0.14858	0.34439	0.15633	2.26E-03	1.48E-05	5.31E-06	1.41E-05	5.37E-06	2.3020E-03
520522.21	4258307.63	49293.71335	0.17249	0.23699	0.17205	0.24895	2.26E-03	7.06E-06	8.48E-06	7.04E-06	8.55E-06	2.2926E-03
520385.47	4259002.79	49285.24123	0.48054	0.1538	0.45705	0.16353	2.26E-03	1.97E-05	5.50E-06	1.87E-05	5.61E-06	2.3106E-03
520140.93	4259012.11	49256.28601	4.2789	0.32828	3.75292	0.30877	2.26E-03	1.75E-04	1.17E-05	1.54E-04	1.06E-05	2.6110E-03
520061.39	4258939.3	49247.53632	9.06667	0.40428	19.47478	0.38534	2.26E-03	3.71E-04	1.45E-05	7.97E-04	1.32E-05	3.4557E-03
520051.52	4258925.24	49241.67015	6.24871	0.41594	10.25635	0.40004	2.26E-03	2.56E-04	1.49E-05	4.20E-04	1.37E-05	2.9635E-03
520422.98	4258213.39	49210.04238	0.19393	0.39295	0.19948	0.41939	2.26E-03	7.94E-06	1.41E-05	8.17E-06	1.44E-05	2.3022E-03
520217.23	4259043.07	49203.63464	1.59085	0.24173	1.47568	0.24586	2.26E-03	6.51E-05	8.65E-06	6.04E-05	8.44E-06	2.4000E-03
520469.2	4258234.87	49177.75301	0.18242	0.30666	0.18557	0.3267	2.26E-03	7.47E-06	1.10E-05	7.60E-06	1.12E-05	2.2934E-03
520473.72	4258910.29	49173.11027	0.30212	0.14624	0.28823	0.1538	2.26E-03	1.24E-05	5.23E-06	1.18E-05	5.28E-06	2.2907E-03
520404.09	4258989.16	49167.46623	0.43367	0.15092	0.41233	0.1599	2.26E-03	1.78E-05	5.40E-06	1.69E-05	5.49E-06	2.3012E-03
520305.48	4258223.02	49150.71808	0.23316	0.80684	0.24084	0.87923	2.25E-03	9.55E-06	9.86E-06	9.02E-05	3.02E-05	2.3334E-03
520227.05	4258262.78	49084.97638	0.27436	1.52854	0.29036	1.70522	2.25E-03	1.12E-05	5.47E-05	1.19E-05	5.85E-05	2.3883E-03
520538.16	4258478.07	49075.74495	0.18586	0.19953	0.18235	0.21084	2.25E-03	7.61E-06	7.14E-06	7.47E-06	7.24E-06	2.2810E-03
520507.07	4258856.46	49051.0903	0.25678	0.14608	0.246	0.15327	2.25E-03	1.05E-05	5.23E-06	1.01E-05	5.26E-06	2.2814E-03
520086.07	4258969.48	49050.76739	14.12102	0.38064	18.36207	0.35556	2.25E-03	5.78E-04	1.36E-05	7.52E-04	1.22E-05	3.6062E-03
520502.79	4258269.27	49046.58877	0.17491	0.26023	0.17504	0.27525	2.25E-03	7.16E-06	9.31E-06	7.17E-06	9.45E-06	2.2832E-03
520029.77	4258589.27	49037.22162	1.17454	3.3659	1.54052	2.76174	2.25E-03	4.81E-05	1.20E-04	6.31E-05	9.48E-05	2.5761E-03
520187.8	4258292.66	49022.26699	0.30174	2.3358	0.31865	2.64153	2.25E-03	1.24E-05	8.35E-05	1.30E-05	9.07E-05	2.4487E-03
520138.7	4258342.5	49006.32667	0.35212	4.86375	0.36653	5.72042	2.25E-03	1.44E-05	1.74E-04	1.50E-05	1.96E-04	2.6481E-03
520132.02	4259008.43	48892.27455	0.09011	0.33638	0.41394	0.31434	2.24E-03	2.08E-04	1.20E-05	1.81E-04	1.08E-05	2.6550E-03
520296.43	4259042.93	48887.23938	0.83443	0.18199	0.78915	0.19404	2.24E-03	3.42E-05	6.51E-06	3.23E-05	6.66E-06	2.3225E-03
520041.4	4258911.07	48878.88804	4.51393	0.42801	6.30897	0.41506	2.24E-03	1.85E-04	1.53E-05	2.58E-04	1.42E-05	2.7152E-03
520334.88	4258213.12	48842.46983	0.22046	0.6637	0.22658	0.71696	2.24E-03	9.03E-06	2.37E-05	9.28E-06	2.46E-05	2.3075E-03
520511.98	4258283.22	48832.89653	0.17314	0.24963	0.17277	0.26301	2.24E-03	7.09E-06	8.93E-06	7.07E-06	9.03E-06	2.2725E-03
520542.05	4258410.67	48829.29932	0.17703	0.20518	0.17489	0.21635	2.24E-03	7.25E-06	7.34E-06	7.16E-06	7.43E-06	2.2694E-03
520019.89	4258618.41	48821.82738	1.21338	2.36728	1.55596	2.04395	2.24E-03	4.97E-05	8.47E-05	6.37E-05	7.02E-05	2.5081E-03
520464.41	4258924.15	48795.56843	0.31602	0.14634	0.30115	0.15388	2.24E-03	1.29E-05	5.23E-06	1.23E-05	5.28E-06	2.2744E-03
520007.12	4258664.6	48794.9619	1.24983	1.49798	1.54488	1.35767	2.24E-03	5.12E-05	5.36E-05	5.33E-05	4.66E-05	2.4532E-03
520355.8	4259022.84	48779.54041	0.5706	0.15898	0.54167	0.16998	2.24E-03	2.34E-05	5.69E-06	2.22E-05	5.84E-06	2.2950E-03
520541.61	4258435.38	48768.84093	0.17992	0.2026	0.17741	0.21358	2.24E-03	7.37E-06	7.25E-06	7.26E-06	7.33E-06	2.2666E-03
520553.65	4258734.39	48768.36828	0.20039	0.15503	0.19195	0.16164	2.24E-03	8.20E-06	5.55E-06	7.86E-06	5.55E-06	2.2646E-03
520207.32	4259043.08	48744.07634	1.75653	0.25049	1.6219	0.25214	2.24E-03	7.19E-05	8.96E-06	6.64E-05	8.66E-06	2.3922E-03
520177.6	4258308.13	48709.51663	2.45858	0.28306	2.23125	0.27598	2.23E-03	1.01E-04	1.01E-05	9.14E-05	9.47E-06	2.4463E-03
520432.76	4258213.42	48673.55608	0.19063	0.37283	0.19587	0.39779	2.23E-03	7.81E-06	1.33E-05	8.02E-06	1.37E-05	2.2759E-03
520000.62	4258788.06	48667.10484	1.61024	0.67614	1.92163	0.65062	2.23E-03	6.59E-05	2.42E-05	7.87E-05	2.23E-05	2.4239E-03
520109.21	4258382.41	48663.60889	0.40343	9.86327	0.42459	11.85859	2.23E-03	1.65E-05	3.53E-04	1.74E-05	4.07E-04	3.0264E-03
520013.67	4258849.66	48637.59529	2.23652	0.51788	2.71056	0.50576	2.23E-03	9.16E-05	1.85E-05	1.11E-04	1.74E-05	2.4698E-03
520027.27	4258885.25	48631.13569	3.08733	0.45838	3.90798	0.44787	2.23E-03	1.26E-04	1.64E-05	1.60E-04	1.54E-05	2.5493E-03
520539.44	4258365.07	48627.52332	0.17282	0.21289	0.17207	0.2247	2.23E-03	7.08E-06	7.61E-06	7.05E-06	7.71E-06	2.2404E-03
520557.69	4258300.19	48601.46538	1.96654	0.55895	2.35671	0.54413	2.23E-03	8.05E-05	2.00E-05	9.65E-05	1.87E-05	2.4454E-03
520429.13	4258708.8	48598.35108	0.1936	0.15932	0.18577	0.16639	2.23E-03	7.93E-06	5.70E-06	7.61E-06	5.71E-06	2.2565E-03
520076.08	4258268.78	48595.17174	0.37956	0.14814	0.36122	0.15607	2.23E-03	1.55E-05	5.30E-06	1.48E-05	5.36E-06	2.2704E-03
520237.02	4258342.03	48581.26838	0.24548	1.00212	0.25603	1.10198	2.23E-03	1.01E-05	3.58E-05	1.05E-05	3.78E-05	2.3320E-03
520336.02	4259032.87	48576.61227	0.64365	0.16444	0.61053	0.17619	2.23E-03	2.64E-05	5.88E-06	2.50E-05	6.05E-06	2.2919E-03
520256.48	4258242.87	48565.65748	0.25559	1.17375	0.26841	1.29839	2.23E-03	1.05E-05	4.20E-05	1.10E-05	4.46E-05	2.3361E-03
520478.09	4258238.67	48558.12968	0.17963	0.2937	0.18223	0.3125	2.23E-03	7.35E-06	1.05E-05	7.46E-06	1.07E-05	2.2638E-03
520375.59	4259012.8	48544.57112	0.50838	0.15446	0.48339	0.16455	2.23E-03	2.08E-05	5.52E-06	1.98E-05	5.65E-06	2.2789E-03
520540.93	4258375.72	48539.10895	0.17346	0.21015	0.1723	0.22189	2.23E-03	7.10E-06	7.52E-06	7.05E-06	7.62E-06	2.2562E-03
520197.62	4258262.69	48516.19038	0.29214	2.08264	0.30899	2.3465	2.23E-03	1.20E-05	7.45E-05	1.27E-05	8.06E-05	2.4055E-03
520538.17	4258354.51	48474.97245	0.17204	0.2154	0.17161	0.22716	2.22E-03	7.04E-06	7.70E-06	7.03E-06	7.80E-06	2.2535E-03
520306.33	4259042.92	48470.92257	0.78014	0.17631	0.73842	0.1884	2.22E-03	3.19E-05	6.31E-06	3.02E-05	6.47E-06	2.2987E-03
520039.65	4258560.14	48467.78435	1.07981	5.00718	1.37521	3.83459	2.22E-03	4.42E-05	1.79E-04	5.63E-05	1.32E-04	2.6344E-03
520496.36	4258256.51	48432.04771	0.17551	0.26842	0.17638	0.28466	2.22E-03	7.19E-06	9.60E-06	7.22E-06	9.77E-06	2.2558E-03
520412.82	4258985.54	48355.64303	0.41396	0.14896	0.39376	0.15754	2.22E-03	1.69E-05	5.33E-06	1.61E-05	5.41E-06	2.2623E-03
520455.3	4258937.93	48323.80362	0.33048	0.14626	0.31466	0.15377	2.22E-03	1.35E-05	5.23E-06	1.29E-05	5.28E-06	2.2539E-03
520123.1	4259004.75	48286.17482	6.14886	0.34272	5.27964	0.31889	2.22E-03	2.52E-04	1.23E-05	2.16E-04	1.09E-05	2.7064E-03
520487.45	4258894.6	48274.65997	0.28282	0.14496	0.27064	0.15233	2.21E-03	1.16E-05	5.19E-06	1.11E-05	5.23E-06	2.2478E-03
520516.95	4258842.36	48255.50498	0.24515	0.14552	0.23493	0.15242	2.21E-03	1.00E-05	5.21E-06	9.62E-06	5.23E-06	2.2440E-03
520325.09	4258213.08	48217.00653	0.22287	0.70815	0.22942	0.76702	2.21E-03	9.13E-06	2.53E-05	9.39E-06	2.63E-05	2.2823E-03
520295.69	4258222.99	48209.34018	0.23524	0.86639	0.24387	0.9469	2.21E-03	9.63E-06	3.10E-05	9.99E-06	3.25E-05	2.2949E-03
520095.76	4258983.47	48207.4656	13.14477	0.36665	11.61083	0.34096	2.21E-03	5.38E-04	1.31E-05	4.75E-04	1.17E-05	3.2501E-03
520532.42	4258809.04	48203.07305	0.2268	0.1474	0.2174	0.15385	2.21E-03	9.29E-06	5.27E-06	8.90E-06	5.28E-06	2.2402E-03
520521.4	4258297.26	48189.59233	0.17123	0.23901	0.17074	0.25108	2.21E-03	7.01E-06	8.55E-06	6.99E-06	8.62E-06	2.2420E-03
520537.07	4258344.03	48129.181	0.17114	0.218	0.17092	0.22959	2.21E-03	7.01E-06	7.80E-06	7.00E-06	7.88E-06	2.2378E-03
520383.85	4258203.27	48123.85701	0.20274	0.49326	0.2083	0.52768	2.21E-03	8.30E-06	1.76E-05	8.53E-06	1.81E-05	2.2604E-03
520197.42	4259043.1	48110.94338	1.95026	0.25912	1.79156	0.25798	2.21E-03	7.99E-05	9.27E-06	7.34E-05	8.86E-06	2.3786E-03
520030.99	4258896.78	48106.04437	3.39741	0.44111	4.38643	0.43048	2.21E-03	1.39E-04	1.58E-05	1.80E-04	1.48E-05	2.5563E-03
520236.87	4258252.81	48093.07945	0.26512	1.39599	0.2801	1.55277	2.21E-03	1.09E-05	4.99E-05	1.15E-05	5.33E-05	2.3320E-03
520128.88	4258352.47	48084.69957	0.36166	5.9459	0.37667	7.0405	2.21E-03	1.48E-05	2.13E-04	1.54E-05	2.42E-04	2.6906E-03
520393.64	4258203.3	48065.48918	0.19986	0.46604	0.20551	0.49793	2.21E-03	8.18E-06	1.67E-05	8.41E-06	1.71E-05	2.2555E-03
520451.37	4258217.22	48061.98886	0.18522	0.31746	0.18958	0.36004	2.20E-03	7.58E-06	1.21E-05	7.76E-06	1.24E-05	2.2448E-03
520539.41	4258792.35	48054.70003	0.21877	0.14863	0.20972	0.1549	2.20E-03	8.96E-06	5.32E-06	8.59E-06	5.32E-06	2.2328E-03
520442.55	4258213.45	48033.77982	0.1873	0.35409	0.19215	0.37771	2.20E-03	7.67E-06	1.27E-05	7.87E-06	1.30E-05	2.2449E-03
520015.45	4258860.38	48019.32612	2.34085	0.49556	2.84744	0.48459	2.20E-03	9.58E-05	1.77E-05	1.17E-04	1.66E-05	2.4498E-03
520496.62	4258880.8	48007.09571	0.27075	0.14436	0.25904	0.15169	2.20E-03	1.11E-05	5.14E-06	1.06E-05	5.21E-06	2.2345E-03
520541.44	4258460.8	47989.63247	0.18249	0.19959	0.17951	0.21061	2.20E-03	7.47E-06	7.14E-06	7.35E-06	7.23E-06	2.2309E-03
520374.06	4258203.24	47985.81695	0.20541	0.52281	0.21096	0.55988	2.20E-03	8.41E-06	1.87E-05	8.64E-06	1.92E-05	2.2565E-03
520004.51	4258821.54	47958.07566	1.81746	0.57709	2.16814	0.56058	2.20E-03	7.44E-05	2.06E-05	8.88E-05	1.92E-05	2.4033E-03
520316.23	4259042.9	47953.00638	0.73062	0.17102	0.69206	0.18301	2.20E-03	2.99E-05	6.12E-06	2.83E-05	6.28E-06	2.2706E-03
519998.44	4258710.45	47935.97572	1.27751	1.04715	1.53823	0.97458	2.20E-03	5.23E-05	3.75E-05	6.30E-05	3.35E-05	2.3854E-03
520486.98	4258242.48	47890.98654	0.17691	0.22808	0.17879	0.29851	2.20E-03	7.24E-06	1.00E-05	7.32E-06	1.02E-05	2.2320E-03
520542.9	4258784	47882.31686	0.21483	0.14931	0.20599	0.15547	2.20E-03	8.80E-06	5.34E-06	8.43E-06	5.34E-06	2.2247E-03
520557.18	4258725.96	47879.43494	0.19681	0.15476	0.18851	0.16151	2.20E-03	8.06E-06	5.54E-06	7.72E-06	5.54E-06	2.2235E-03
520460.18	4258221	47868.81736	0.1829	0.32224	0.1868	0.34364	2.20E-03	7.49E-06	7.65E-06	1.15E-05	1.18E-05	2.2346E-03
520403.43	4258203.33	47864.39259	0.19686	0.44082	0.20257	0.47045	2.20E-03	8.06E-06	1.58E-05	8.29E-06	1.62E-05	2.2442E-03
520364.28	4258203.21	47863.65092	0.20819	0.55436	0.21362	0.59498	2.20E-03	8.52E-06	1.98E-05	8.75E-06	2.04E-05	2.2534E-03
520446.17	4258951.64	47842.2585	0.34629	0.14614	0.32956	0.15367	2.19E-03	1.42E-05	5.23E-06	1.35E-05	5.28E-06	2.2331E-03
520207.44	4258272.72	47829.42337	0.28265	1.8711	0.29931	2.09894	2.19E-03	1.16E-05	6.69E-05	1.23E-05	7.21E-05	2.3571E-03
520000.68	4258691.74	47826.4751	1.24269	1.19268	1.50741	1.09953	2.19E-03	5.09E-05	4.27E-05	6.17E-05	3.77E-05	2.3872E-03
520167.7	4259033.15	47822.2248	2.80102	0.29107	2.52489	0.28061	2.19E-03	1.15E-04	1.04E-05	1.03E-04	9.63E-06	2.4321E-03
520052.54	4258935.65	47765.75931	6.4978	0.40043	10.91474	0.38494	2.19E-03	2.66E-04	1.43E-05	4.47E-04	1.32E-05	2.9319E-03
520395.37	4259002.77	47762.24981	0.45531	0.15005	0.43291	0.15932	2.19E-03	1.86E-05	5.37E-06	1.77E-05	5.47E-06	2.2384E-03
520158.85	4259029.5	47727.57021	3.1827	0.30072	2.84762	0.28726	2.19E-03	1.30E-04	1.08E-05	1.17E-04	9.86E-06	2.4572E-03
520246.94	4259053.02	47696.97813	1.2172	0.21206	1.14053	0.22077	2.19E-03	4.98E-05	7.56E-06	4.67E-05	7.58E-06	2.2999E-03
520345.92	4259032.85	47689.04333	0.60573	0.15996	0.5746	0.17129	2.19E-03	2.48E-05	5.72E-06	2.35E-05	5.88E-06	2.2478E-03
520266.75	4259052.98	47687.18866	1.03825	0.19766	0.97741	0.20817	2.19E-03	4.25E-05	7.07E-06	4.00E-05	7.15E-06	2.2845E-03
520114.18	4259001.06	47673.7991	7.64154	0.34781	6.5048	0.3229	2.19E-03	3.13E-04	1.24E-05	2.66E-04	1.11E-05	2.7809E-03
520256.85	4259053	47665.86643	1.12114	0.20452	1.05313	0.21428	2.19E-03	4.59E-05	7.32E-06	4.31E

520246.69	4258242.84	47033.02363	0.25622	1.28084	0.27021	1.42013	2.16E-03	1.05E-05	4.58E-05	1.11E-05	4.88E-05	2.2739E-03	
519995.71	4258727.97	47019.30662	1.28073	0.92882	1.53493	0.87093	2.16E-03	5.24E-05	3.32E-05	6.28E-05	2.99E-05	2.3356E-03	
520057.87	4258947.84	46991.21862	7.93632	0.38763	16.08399	0.37096	2.16E-03	3.25E-04	1.39E-05	6.59E-04	1.27E-05	3.1660E-03	
520463.87	4258934.38	46985.18364	0.3127	0.14407	0.3027	0.15141	2.16E-03	1.30E-05	5.15E-06	1.24E-05	5.20E-06	2.1913E-03	
520032.39	4258907.35	46985.10108	3.5356	0.424	4.60874	0.41365	2.16E-03	1.45E-04	1.52E-05	1.89E-04	1.42E-05	2.5184E-03	
520545.94	4258395	46980.01792	0.17331	0.20406	0.17146	0.2152	2.16E-03	7.10E-06	7.30E-06	7.02E-06	7.39E-06	2.1842E-03	
520515.67	4258852.89	46978.33134	0.2475	0.14356	0.23719	0.15045	2.16E-03	1.01E-05	5.13E-06	9.71E-06	5.17E-06	2.1854E-03	
520495.87	4258246.29	46967.39185	0.17398	0.26982	0.17533	0.2864	2.15E-03	7.12E-06	9.65E-06	7.18E-06	9.83E-06	2.1886E-03	
520007.12	4258655.32	46921.22565	1.18387	1.58573	1.46321	1.42981	2.15E-03	4.85E-05	5.67E-05	5.99E-05	4.91E-05	2.3668E-03	
520477.81	4258228.54	46913.04199	0.17774	0.2954	0.18075	0.31431	2.15E-03	7.28E-06	1.06E-05	7.40E-06	1.08E-05	2.1883E-03	
520132.29	4259018.53	46905.24451	5.05659	0.32557	4.39435	0.30425	2.15E-03	2.07E-04	1.16E-05	1.80E-04	1.04E-05	2.5610E-03	
520560.71	4258717.52	46900.47111	0.19334	0.15466	0.18528	0.16148	2.15E-03	7.92E-06	5.53E-06	7.59E-06	5.54E-06	2.1783E-03	
520553.39	4258758.96	46882.29875	0.2035	0.1505	0.19503	0.15654	2.15E-03	8.33E-06	5.38E-06	7.99E-06	5.37E-06	2.1779E-03	
520296.45	4259052.93	46829.93844	0.83473	0.17856	0.78872	0.19016	2.15E-03	3.42E-05	6.39E-06	3.23E-05	6.53E-06	2.2279E-03	
520119.06	4258362.44	46794.34148	0.37086	7.49483	0.38709	8.9918	2.15E-03	1.52E-05	2.68E-04	1.58E-05	3.09E-04	2.7546E-03	
520432.8	4258203.42	46730.99499	0.18767	0.37518	0.19297	0.39978	2.14E-03	7.68E-06	1.34E-05	7.90E-06	1.37E-05	2.1867E-03	
520355.82	4259032.84	46718.38461	0.57091	0.15577	0.54159	0.16664	2.14E-03	2.34E-05	5.57E-06	2.22E-05	5.72E-06	2.2002E-03	
520305.51	4258213.02	46704.60593	0.22725	0.81075	0.23524	0.88338	2.14E-03	9.30E-06	2.90E-05	9.63E-06	3.03E-05	2.2210E-03	
520207.34	4259053.08	46691.53866	1.75726	0.24489	1.62363	0.2459	2.14E-03	7.19E-05	8.76E-06	6.65E-05	8.44E-06	2.2977E-03	
520177.62	4259043.13	46616.80627	2.45314	0.27555	2.22903	0.26823	2.14E-03	1.00E-04	9.86E-06	9.13E-05	9.21E-06	2.3495E-03	
520336.04	4259042.87	46529.95037	0.64379	0.16116	0.61003	0.17268	2.13E-03	2.64E-05	5.76E-06	2.50E-05	5.93E-06	2.1977E-03	
520454.87	4258948.11	46513.36926	0.33217	0.14391	0.31627	0.15124	2.13E-03	1.36E-05	5.15E-06	1.29E-05	5.19E-06	2.1708E-03	
520334.91	4258203.12	46497.69188	0.21535	0.66708	0.22154	0.72034	2.13E-03	8.82E-06	2.39E-05	9.07E-06	2.47E-05	2.1997E-03	
520306.35	4259052.92	46489.15909	0.78047	0.17307	0.73813	0.18473	2.13E-03	3.20E-05	6.19E-06	3.02E-05	6.34E-06	2.2075E-03	
520375.61	4259022.8	46484.56089	0.50886	0.15129	0.48344	0.16127	2.13E-03	2.08E-05	5.41E-06	1.98E-05	5.54E-06	2.1842E-03	
520495.83	4258891.13	46471.2192	0.27256	0.14241	0.2608	0.14961	2.13E-03	1.12E-05	5.09E-06	1.07E-05	5.14E-06	2.1641E-03	
520430.28	4258978.31	46458.89721	0.37811	0.1451	0.36	0.15291	2.13E-03	1.55E-05	5.19E-06	1.47E-05	5.25E-06	2.1721E-03	
520049.52	4258531.01	46437.26878	0.91467	7.68277	1.09101	5.4396	2.13E-03	3.75E-05	2.75E-04	4.47E-05	1.87E-04	2.6741E-03	
520018.5	4258881.63	46432.9775	2.53585	0.41507	3.10831	0.44579	2.13E-03	1.04E-04	1.63E-05	1.27E-04	1.53E-05	2.3929E-03	
520096.34	4258993.7	46419.55057	12.92071	0.35371	11.36419	0.32915	2.13E-03	5.29E-04	1.27E-05	4.65E-04	1.13E-05	3.1479E-03	
520123.44	4259014.88	46416.66381	6.11391	0.3316	5.25431	0.3086	2.13E-03	2.50E-04	1.19E-05	2.15E-04	1.06E-05	2.6174E-03	
520168.19	4258302.6	46400.22745	0.30687	3.02833	0.33086	3.45857	2.13E-03	1.26E-05	1.08E-04	1.31E-05	1.19E-04	2.3815E-03	
520412.7	4258995.59	46353.44842	0.41495	0.14598	0.39464	0.15451	2.13E-03	1.70E-05	5.22E-06	1.62E-05	5.30E-06	2.1703E-03	
520486.62	4258232.31	46330.01876	0.17514	0.28292	0.17753	0.30083	2.13E-03	7.17E-06	1.01E-05	7.27E-06	1.03E-05	2.1604E-03	
520158.37	4258112.56	46301.40595	0.31576	3.49818	0.32913	4.01805	2.12E-03	1.29E-05	1.25E-04	1.35E-05	1.38E-04	2.4137E-03	
520227.08	4258252.78	46296.22679	0.26475	1.53659	0.28024	1.71283	2.12E-03	1.08E-05	5.50E-05	1.15E-05	5.88E-05	2.2601E-03	
520530.18	4258301.02	46259.81665	0.16808	0.23018	0.16759	0.24153	2.12E-03	6.88E-06	8.23E-06	6.86E-06	8.29E-06	2.1526E-03	
520178.01	4258292.63	46258.54603	0.29789	2.6535	0.31258	3.01216	2.12E-03	1.22E-05	9.49E-05	1.28E-05	1.03E-04	2.3456E-03	
519997.34	4258804.24	46248.95423	1.55594	0.61529	1.84158	0.59452	2.12E-03	6.37E-05	2.20E-05	7.54E-05	2.04E-05	2.3033E-03	
520451.33	4258207.19	46246.10443	0.18268	0.33956	0.18724	0.36193	2.12E-03	7.48E-06	1.21E-05	7.67E-06	1.24E-05	2.1614E-03	
520043.69	4258932	46232.53328	4.86554	0.39648	6.98828	0.38408	2.12E-03	1.99E-04	1.42E-05	2.86E-04	1.32E-05	2.6338E-03	
520197.44	4259053.1	46172.3601	1.95188	0.25321	1.7946	0.25149	2.12E-03	7.99E-05	9.06E-06	7.35E-05	8.63E-06	2.2894E-03	
520505.07	4258877.3	46171.85931	0.26091	0.14205	0.24988	0.14912	2.12E-03	1.07E-05	5.08E-06	1.02E-05	5.12E-06	2.1494E-03	
520442.58	4258203.45	46139.91286	0.18451	0.35632	0.18952	0.37956	2.12E-03	7.55E-06	1.27E-05	7.76E-06	1.30E-05	2.1579E-03	
520460.07	4258210.94	46113.36375	0.18056	0.32425	0.18473	0.34552	2.12E-03	7.39E-06	1.16E-05	7.56E-06	1.19E-05	2.1540E-03	
520525.64	4258838.76	46109.2233	0.23632	0.14307	0.22658	0.14966	2.12E-03	9.68E-06	5.12E-06	9.28E-06	5.14E-06	2.1446E-03	
520446.03	4258961.78	46091.00252	0.34817	0.14374	0.3314	0.15113	2.11E-03	1.43E-05	5.14E-06	1.36E-05	5.19E-06	2.1527E-03	
520276.12	4258222.93	46071.15663	0.23857	1.00696	0.24846	1.10697	2.11E-03	9.77E-06	3.60E-05	1.02E-05	3.80E-05	2.2077E-03	
520099.39	4258392.38	46043.67426	0.41128	14.04458	0.43642	15.98746	2.11E-03	1.68E-05	5.02E-04	1.79E-05	5.49E-04	3.1983E-03	
520520.02	4258276.65	46033.74578	0.16876	0.24204	0.16837	0.25476	2.11E-03	6.91E-06	8.66E-06	6.89E-06	8.75E-06	2.1431E-03	
520544.84	4258469.73	46028.37022	0.18136	0.19584	0.17804	0.20671	2.11E-03	7.43E-06	7.00E-06	7.29E-06	7.10E-06	2.1405E-03	
520383.88	4258193.27	46014.89522	0.19876	0.49617	0.20405	0.53031	2.11E-03	8.14E-06	1.77E-05	8.35E-06	1.82E-05	2.1635E-03	
520021.89	4258893.02	46001.96692	2.74625	0.43757	3.40713	0.42861	2.11E-03	1.12E-04	1.57E-05	1.40E-04	1.47E-05	2.3928E-03	
520187.83	4258282.66	45999.84514	0.28912	2.3468	0.30424	2.65257	2.11E-03	1.18E-05	8.39E-05	1.25E-05	9.11E-05	2.3097E-03	
520256.51	4258232.87	45998.63801	0.24783	1.17948	0.26095	1.30449	2.11E-03	1.01E-05	4.22E-05	1.07E-05	4.48E-05	2.2181E-03	
520393.67	4258193.3	45980.03973	0.19606	0.46893	0.20145	0.50042	2.11E-03	8.03E-06	1.68E-05	8.25E-06	1.72E-05	2.1597E-03	
520148.55	4258322.53	45949.02218	0.32455	4.10004	0.33752	4.73413	2.11E-03	1.33E-05	1.47E-04	1.38E-05	1.63E-04	2.4443E-03	
520316.25	4259052.9	45946.99358	0.7307	0.16783	0.69155	0.17946	2.11E-03	2.99E-05	6.00E-06	2.83E-05	6.16E-06	2.1784E-03	
520325.12	4258203.08	45942.89557	0.21767	0.71144	0.22434	0.77072	2.11E-03	8.91E-06	2.54E-05	9.19E-06	2.65E-05	2.1778E-03	
520504.77	4258250.09	45891.84475	0.17103	0.25937	0.17184	0.27479	2.11E-03	7.00E-06	9.28E-06	7.04E-06	9.43E-06	2.1382E-03	
520564.24	4258709.09	45875.82464	0.19003	0.15471	0.18225	0.16152	2.10E-03	7.78E-06	5.53E-06	7.46E-06	5.55E-06	2.1310E-03	
520374.09	4258193.24	45866.47611	0.20127	0.52572	0.20654	0.56264	2.10E-03	8.24E-06	1.88E-05	8.46E-06	1.93E-05	2.1591E-03	
519993.37	4258770.57	45865.02237	1.36513	0.7228	1.61716	0.69015	2.10E-03	5.59E-05	2.59E-05	6.62E-05	2.37E-05	2.2759E-03	
520114.59	4259011.23	45852.35496	7.57345	0.31622	6.4512	0.31228	2.10E-03	3.10E-04	1.20E-05	2.64E-04	1.07E-05	2.7006E-03	
520481.69	4258917	45848.83848	0.29214	0.14193	0.27908	0.1491	2.10E-03	1.20E-05	5.08E-06	1.14E-05	5.12E-06	2.1370E-03	
520403.46	4258193.33	45838.79544	0.19328	0.44359	0.19877	0.4728	2.10E-03	7.91E-06	1.59E-05	8.14E-06	1.62E-05	2.1511E-03	
520468.81	4258214.68	45829.01081	0.17829	0.31005	0.18203	0.33023	2.10E-03	7.30E-06	1.11E-05	7.45E-06	1.13E-05	2.1397E-03	
520514.31	4258264.19	45815.97619	0.16931	0.24849	0.1693	0.26231	2.10E-03	6.93E-06	8.89E-06	6.93E-06	9.01E-06	2.1337E-03	
520295.72	4258212.99	45797.56087	0.2291	0.87051	0.23807	0.95125	2.10E-03	9.38E-06	3.11E-05	9.75E-06	3.27E-05	2.1840E-03	
520033.66	4258917.87	45793.77192	3.66725	0.40789	4.82587	0.39779	2.10E-03	1.50E-04	1.46E-05	1.98E-04	1.37E-05	2.4760E-03	
520395.39	4259012.77	45779.07468	0.45581	0.14707	0.43339	0.15625	2.10E-03	1.87E-05	5.26E-06	1.77E-05	5.36E-06	2.1473E-03	
520167.72	4259043.15	45766.30067	2.78795	0.28291	2.51791	0.27243	2.10E-03	1.14E-04	1.01E-05	1.03E-04	9.35E-06	2.3364E-03	
520560.37	4258742.27	45757.36632	0.1964	0.1557	0.18818	0.15691	2.10E-03	8.04E-06	5.39E-06	7.70E-06	5.39E-06	2.1258E-03	
520491.16	4258903.07	45744.36247	0.27911	0.14155	0.26696	0.14869	2.10E-03	1.14E-05	5.06E-06	1.09E-05	5.10E-06	2.1312E-03	
520548.62	4258427.92	45710.73578	0.17547	0.19859	0.17301	0.2091	2.10E-03	7.18E-06	7.10E-06	7.08E-06	7.18E-06	2.1257E-03	
520364.31	4258193.21	45708.89872	0.20384	0.55731	0.20908	0.59786	2.10E-03	8.35E-06	1.99E-05	8.56E-06	2.05E-05	2.1544E-03	
519992.8	4258745.07	45699.97222	1.27081	0.82979	1.51444	0.78351	2.10E-03	5.20E-05	2.97E-05	6.20E-05	2.69E-05	2.2672E-03	
520345.94	4259042.85	45697.00917	0.60588	0.15677	0.57421	0.16792	2.10E-03	2.48E-05	5.61E-06	2.35E-05	5.76E-06	2.1562E-03	
520549.18	4258403.52	45696.69264	0.17265	0.20086	0.17057	0.21161	2.10E-03	7.07E-06	7.18E-06	6.98E-06	7.26E-06	2.1250E-03	
520158.62	4259039.39	45695.80986	3.18126	0.2923	2.85178	0.27891	2.10E-03	1.30E-04	1.05E-05	1.17E-04	9.58E-06	2.3635E-03	
520514.54	4258863.37	45678.13895	0.24964	0.1416	0.23924	0.14848	2.10E-03	1.02E-05	5.06E-06	9.80E-06	5.10E-06	2.1258E-03	
520365.72	4259032.82	45674.07409	0.53879	0.15194	0.5114	0.16232	2.10E-03	2.21E-05	5.43E-06	2.09E-05	5.57E-06	2.1494E-03	
520019.85	4258608.71	45670.31437	1.11387	2.47692	1.41583	2.13126	2.10E-03	4.56E-05	8.86E-05	5.80E-05	7.32E-05	2.3606E-03	
520472.44	4258930.83	45664.24811	0.30555	0.14188	0.29138	0.14907	2.09E-03	1.25E-05	5.07E-06	1.19E-05	5.12E-06	2.1296E-03	
520413.25	4258193.36	45629.97083	0.19049	0.41995	0.19598	0.44729	2.09E-03	7.80E-06	1.50E-05	8.02E-06	1.54E-05	2.1396E-03	
520140.51	4259035.63	45561.67673	3.68193	0.30123	3.27054	0.285	2.09E-03	1.51E-04	1.08E-05	1.34E-04	9.78E-06	2.3955E-03	
520048.72	4258944.07	45560.65093	5.72072	0.38382	8.82508	0.37039	2.09E-03	2.34E-04	1.37E-05	3.61E-04	1.27E-05	2.7122E-03	
520495.44	4258236.09	45540.7672	0.1724	0.27141	0.17422	0.28824	2.09E-03	7.06E-06	9.71E-06	7.13E-06	9.90E-06	2.1231E-03	
520197.65	4258272.69	45539.25315	0.28033	2.09386	0.29581	2.35472	2.09E-03	1.15E-05	7.49E-05	1.21E-05	8.08E-05	2.2686E-03	
520058.88	4258958.25	45528.20491	8.27544	0.37379	17.55504	0.35757	2.09E-03	3.39E-04	1.34E-05	7.19E-04	1.23E-05	3.1720E-03	
520421.37	4258992.01	45522.12071	0.39654	0.1442	0.37745	0.15234	2.09E-03	1.62E-05	5.16E-06	1.55E-05	5.23E-06	2.1305E-03	
520546.89	4258358.24	45478.4513	0.16852	0.20764	0.1678	0.21894	2.09E-03	6.90E-06	7.43E-06	6.87E-06	7.52E-06	2.1152E-03	
520187.54	4259053.12	45448.92392	2.18082	0.26107	1.99417	0.25646	2.09E-03	8.93E-05	8.16E-05	9.34E-06	8.80E-06	2.2742E-03	
520236.9	4258242.81	45440.3477	0.25628	1.40316	0.27098	1.55962	2.08E-03	1.05E-05	5.02E-05	1.11E-05	5.35E-05	2.2100E-03	
520006.5	4258856.69	45411.40276	1.95821	0.49253	2.33648	0.48151	2.08E-03	8.02E-05	1.76E-05	9.57E-05	1.65E-05	2.2934E-03	
520548.28	4258368.85	45400.27747	0.16917	0.20517	0.16807	0.21644	2.08E-03	6.93E-06	7.34E-06	6.88E-06	7.43E-06	2.1115E-03	
520439.01	4258974.7	45392.93424	0.36184	0.14299	0.34451	0.15049	2.08E-03	1.48E-05	5.11E-06	1.41E-05	5.17E-06	2.1217E-03	
520140.41	4259031.87	45381.68064	4.32278	0.30943	3.80084	0.2906	2.08E-03	1.77E-04	1.11E-05	1.56E-04	9.98E-06	2.4357E-03	
520354.52	4258193.18	45368.34963	0.20619	0.59177	0.2116	0.63616	2.08E-03	8.44E-06	2.12E-05	8.66E-06	2.18E-05	2.1415E-03	
520545.69	4258347.72	45361.24917	0.16776	0.21004	0.16732	0.22125	2.08E-03	6.87E-06	7.51E-06	6.85E-06	7.60E-06	2.1099E-03	
520477.56	4258218.42	45354.10667	0.17583	0.29705	0.17916	0.31604	2.08E-03	7.20E-06	1.06E-05	7.34E-06	1.08E-05	2.1168E-03	
520528.37	4258290.66	45335.04669	0.16691	0.232	0.16636	0.24348	2.08E-03	6.83E-06	8.30E-06	6.81E-06	8.36E-06	2.1102E-03	
520423.04	4258193.39	45311.48642	0.18763	0.39797	0.19305	0.42365	2.08E-03	7.68E-06	1.42E-05	7.90E-06	1.45E-05	2.1232E-03	
520326.15	4259052.89	45291.08203	0.68524	0.16272	0.64852	0.17422	2.08E-03	2.81E-05	5.82E-06	2.66E-05	5.98E-06	2.1443E-03	
520000.87	4258836.88	45281.99286	1.77243	0.53087	2.04649	0.51718	2.08E-03	7.09E-05	1.90E-05	8.38E-05	1.78E-05	2.2680E-03	
520463.38	4258944.59	45269.0306	0.31931	0.14182	0.30423	0.14897	2.08E-03	1.31E-05	5.07E-06	1.25E-05	5.11E-06	2.1126E-03	
520315.33	4258203.05	45245.27783	0.21974	0.76033	0.22713	0.8261	2.08E-03	9.00E-06	2.72E-05	9.30E-06	2.84E-05	2.1496E-03	
520385.51	4259022.79	45226.50174	0.48152	0.14764	0.45758	0.15716	2.07E-03	1.97E-05	5.28E-06	1.87E-05	5.40E-06	2.1240E-03	
520105.74	4259007.57	45214.51213	9.63853	0.33933	8.21902	0.31528	2.07E-03	3.95E-04	1.21E-05	3.37E-04	1.08E-05	2.8285E-03	
520029.73	4258579.58	45184.57512	1.06684	3.50678	1.37951	2.85376	2.07E-03	4.37E-05	1.25E-04	5.65E-05	9.80E-05	2.3965E-03	
519993.75	4258795.6	45176.53091	1.44047	0.63512	1.69834	0.61177	2.07E-03	5.90E-05	2.27E-05	6.95E-05	2.10E-05	2.2448E-03	
520404	4259009.21	45160.43639	0.43514	0.14507	0.4138	0.15391	2.07E-03	1.78E-05	5.19E-06	1.69E-05	5.28E-06	2.1171E-03	
520023.37	4258903.63	45059.07353	2.85401	0.4206	3.56423	0.41203	2.07E-03	1.17E-04	1.50E-05	1.46E-04	1.41E-05	2.3592E-03	
520563.87	4258733.92	45041.99074	0.19299	0.15063	0.18493	0.15697	2.07E-03	7.90E-06	5.39E-06	7.57E-06	5.39E-06	2.0927E-03	
520207.47	4258262.72	45033.68652	0.27188	1.88042	0.28734	2.10766	2.07E-03	1.11E-05	6.73E-05	1.18E-05	7.24E-05	2.2386E-03	
520544.65	4258337.25	45020.58419	0.16681	0.21269	0.16662	0.22365	2.07E-03	6.83E-06	7.61E-06	6.82E-06	7.68E-06	2.0944E-03	
520109.24	4258372.41	45004.95271	0.37893	9.90479	0.3978	11.75688	2.06E-03	1.55E-05	3.54E-04	1.63E-05	4.04E-04	2.8544E-03	
520131.3	4259028.12	44985.50449	5.15428	0.31622	4.48208	0.29531	2.06E-03	2.11E-04	1.13E-05	1.84E-04	1.01E-05	2.4798E-03	
520524.28	4258849.33	44981.84535	0.23865	0.14123	0.22887	0.14782	2.06E-03	9.77E-06	5.05E-06	9.37E-06	5.07E-06	2.0929E-03	
520542.9	4258807.93	44962.77372	0.21759	0.14362	0.20868	0.14973	2.06E-03	8.91E-06	5.14E-06	8.54E-06	5.14E-06	2.0905E-03	
520432.83	4259028.78	44904.78968	0.18473	0.37747	0.19	0.40172	2.06E-03	7.56E-06	1.35E-05	7.78E-06	1.38E-05	2.1028E-03	
520539.96	4258315.22	44883.51872	0.16597	0.2195	0.16564	0.23033	2.06E-03	6.80E-06	7.85E-06	6.78E-06	7.91E-06	2.0885E-03	
520008.2	4258867.38	44879.44107	0.24235	0.47184	0.24413	0.46199	2.06E-03	8.36E-05	1.69E-05	1.00E-04	1.59E-05	2.2753E-03	
520266.33	4258223.9	44875.75463	0.23967	1.09058	0.2517	1.20223	2.06E-03	9.81E-06	3.90E-05	1.03E-05	4.13E-05	2.1592E-03	
520344.73	4258193.15	44861.69872	0.20831	0.62937	0.21413	0.67781	2.06E-03	8.53E-06	2.25E-05	8.77E-06	2.33E-05	2.1212E-03	
520007.12	4258646.05	44860.43692	1.11586	1.67301	1.37777	1.50099	2.06E-03	4.57E-05	5.98E-05	5.64E-05	5.15E-05	2.2716E-03	
520454.48	4258958.28	44854.61793	0.33401	0.14163	0.31808	0.14881	2.06E-03	1.37E-05	5.07E-06	1.30E-05	5.11E-06	2.0947E-03	
520486.3	4258222.16	44823.73124	0.17335	0.2846	0.17616	0.3026	2.06E-03	7.10E-06	1.02E-05	7.21E-06	1.04E-05	2.0913E-03	
520285.94	4258212.96	44789.15551	0.23062	0.93715	0.24072	1.02678	2.05E-03	9.44E-06	3.35E-05	9.86E-06	3.53E-05	2.1429E-03	
520355.84	4259042.84	44786.3403	0.57106	0.15272	0.54142	0.16344	2.05E-03	2.34E-05	5.46E-06	2.22E-05	5.61E-06	2.1113E-03	
520504.21	4258887.66	44753.37941	0.26275	0.14006	0.25159	0.14704	2.05E-03	1.08E-05	5.01E-06	1.03E-05	5.05E-06	2.0843E-03	
520549.83	4258791.4	44733.7599	0.21007	0.1449	0.20152	0.15081	2.05E-03	8.60E-06	5.18E-06	8.25E-06	5.18E-06	2.0795E-03	
520177.64	4259053.13	44725.51135	2.45632	0.26864	2.23365	0.26103	2.05E-03	1.01E-04	9.61E-06	9.15E-05	8.96E-06	2.2625E-03	
520567.77	4258706.65	44719.77513	0.18676	0.15475	0.17924	0.16145	2.05E-03	7.65E-06	5.54E-06	7.34E-06	5.54E-06	2.0777E-03	
519994.67	4258701.35	44712.17524	1.14729	1.0749	1.36884	0.99778	2.05E-03	4.70E-05	3.84E-05	5.60E-05	3.43E-05	2.2270E-03	
520513.66	4258253.9	44677.15029	0.16806	0.24971	0.1684	0.26397	2.05E-03	6.88E-06	8.93E-06	6.89E-06	9.06E-06	2.0815E-03	
520128.91	4258342.47	44675.79317	0.34212	5.96518	0.35503	7.06255	2.05E-03	1.40E-05	2.13E-04	1.45E-05	2.42E-04	2.5340E-03	
520034.84	4258928.34	44637.37277	3.79666	0.39291	5.03889	0.38301	2.05E-03	1.55E-04	1.41E-05	2.06E-04	1.31E-05	2.4368E-03	
519997.12	4258827.83	44617.50799	1.60372	0.54803	1.88516	0.53273	2.05E-03	6.57E-05	1.96E-05	7.72E-05	1.83E-05	2.2277E-03	
520430.03	4258888.42	44615.53326	0.3793	0.14235	0.36121	0.15012	2.05E-03	1.55E-05	5.09E-06	1.48E-05	5.15E-06	2.0874E-03	
520504.25	4258239.86	44596.12301	0.1696	0.26082	0.17088	0.27655	2.05E-03	6.94E-06	9.33E-06	7.00E-06	9.49E-06	2.0787E-03	
520096.89	4259003.92	44591.30776	12.66601	0.34126	11.11196	0.31783	2.05E-03	5.19E-04	1.22E-05	4.55E-04	1.09E-05	3.0424E-03	
520375.62	4259032.8	44573.51379	0.50916	0.1483	0.48363	0.15818	2.04E-03	2.08E-05	5.30E-06	1.98E-05	5.43E-06	2.0963E-03	
520122.19	4259024.36	44549.55333	6.29143	0.32188	5.40753	0.29948	2.04E-03	2.58E-04	1.21E-05	2.21E-04	1.03E-05	2.5446E-03	
520246.72	4258232.84	44540.07371	0.24813	1.28698	0.26197	1.42652	2.04E-03	1.02E-05	4.60E-05	1.07E-05	4.90E-05	2.1593E-03	
520336.05	4259052.87	44539.78821	0.64364	0.15801	0.60925	0.16928	2.04E-03	2.64E-05	5.65E-06	2.49E-05	5.81E-06	2.1062E-03	
520451.29	4258197.17	44523.57769	0.18012	0.34165	0.

520345.95	4259052.85	43829.11067	0.60591	0.15375	0.57379	0.16471	2.01E-03	2.48E-05	5.50E-06	2.35E-05	5.65E-06	2.0703E-03
520523.06	4258859.84	43824.55305	0.2408	0.13931	0.23094	0.1459	2.01E-03	9.86E-06	4.98E-06	9.46E-06	5.01E-06	2.0399E-03
520365.74	4259042.82	43811.23539	0.53892	0.149	0.51142	0.15925	2.01E-03	2.21E-05	5.33E-06	2.09E-05	5.47E-06	2.0638E-03
520039.6	4258550.44	43811.13413	0.96424	5.12003	1.19247	3.93196	2.01E-03	3.95E-05	1.83E-04	4.88E-05	1.35E-04	2.4164E-03
519993.37	4258818.79	43805.35337	1.48408	0.56592	1.73957	0.54863	2.01E-03	6.08E-05	2.02E-05	7.12E-05	1.88E-05	2.1808E-03
520325.15	4258193.08	43769.52347	0.21253	0.71466	0.21945	0.77402	2.01E-03	8.70E-06	2.56E-05	8.99E-06	2.66E-05	2.0779E-03
520413.28	4258183.36	43764.81041	0.18714	0.42247	0.19241	0.44939	2.01E-03	7.66E-06	1.51E-05	7.88E-06	1.54E-05	2.0539E-03
520149.67	4259045.69	43760.08544	3.67367	0.2926	3.2681	0.27664	2.01E-03	1.50E-04	1.05E-05	1.34E-04	9.50E-06	2.3118E-03
520227.11	4258242.78	43729.61364	0.25556	1.54428	0.2704	1.7198	2.01E-03	1.05E-05	5.52E-05	1.11E-05	5.90E-05	2.1420E-03
520553.38	4258388.69	43717.67121	0.16885	0.19823	0.16697	0.20901	2.01E-03	6.91E-06	7.09E-06	6.84E-06	7.18E-06	2.0337E-03
520276.15	4258212.93	43713.40859	0.23183	1.01184	0.24305	1.11154	2.01E-03	9.49E-06	3.62E-05	9.95E-06	3.82E-05	2.0993E-03
520421.21	4259002.08	43701.05373	0.3975	0.14136	0.37836	0.14948	2.00E-03	1.63E-05	5.06E-06	1.55E-05	5.13E-06	2.0469E-03
520462.93	4258954.79	43648.58865	0.32087	0.13958	0.30576	0.14657	2.00E-03	1.31E-05	4.99E-06	1.25E-05	5.03E-06	2.0382E-03
520140.63	4259041.96	43639.77713	4.30205	0.30032	3.79211	0.28193	2.00E-03	1.76E-04	1.07E-05	1.55E-04	9.68E-06	2.3539E-03
520438.7	4258984.83	43633.34527	0.36311	0.1404	0.34583	0.14784	2.00E-03	1.49E-05	5.02E-06	1.42E-05	5.08E-06	2.0409E-03
520364.34	4258183.21	43617.12571	0.19948	0.56021	0.20468	0.60043	2.00E-03	8.17E-06	2.00E-05	8.38E-06	2.06E-05	2.0583E-03
520256.54	4258222.87	43583.90698	0.24027	1.18531	0.25327	1.30989	2.00E-03	9.84E-06	4.24E-05	1.04E-05	4.50E-05	2.1071E-03
520295.75	4258202.99	43559.71203	0.22317	0.8744	0.23249	0.95532	2.00E-03	9.14E-06	3.13E-05	9.52E-06	3.28E-05	2.0812E-03
519989.13	4258736.23	43544.73491	1.16242	0.85495	1.37544	0.80413	2.00E-03	4.76E-05	3.06E-05	5.63E-05	2.76E-05	2.1598E-03
520513.07	4258243.63	43517.16072	0.16675	0.25098	0.16752	0.26562	2.00E-03	6.83E-06	9.98E-06	6.86E-06	9.12E-06	2.0283E-03
520423.07	4258183.39	43504.38046	0.18447	0.40037	0.18974	0.42563	2.00E-03	7.55E-06	1.43E-05	7.77E-06	1.46E-05	2.0402E-03
520563.68	4258758.32	43490.76792	0.19584	0.14633	0.18772	0.15212	2.00E-03	8.02E-06	5.23E-06	7.69E-06	5.22E-06	2.0214E-03
520571.31	4258692.22	43481.18206	0.1836	0.15467	0.17627	0.16124	1.99E-03	7.52E-06	5.53E-06	7.22E-06	5.54E-06	2.0206E-03
520538.06	4258294.38	43469.89892	0.16384	0.22374	0.16333	0.23448	1.99E-03	6.71E-06	8.00E-06	6.69E-06	8.05E-06	2.0238E-03
520119.09	4258352.44	43452.12641	0.35001	7.52194	0.36431	8.97237	1.99E-03	1.43E-05	2.69E-04	1.49E-05	3.08E-04	2.5998E-03
520103.98	4259016.84	43449.68644	10.19813	0.32883	8.70507	0.30578	1.99E-03	4.18E-04	1.18E-05	3.56E-04	1.05E-05	2.7896E-03
520168.22	4258292.6	43443.60929	0.29304	3.04177	0.30519	3.46802	1.99E-03	1.20E-05	1.09E-04	1.25E-05	1.19E-04	2.2455E-03
520178.04	4259238.63	43409.91815	0.28509	2.66505	0.29794	3.02255	1.99E-03	1.17E-05	9.53E-05	1.22E-05	1.04E-04	2.2145E-03
520385.52	4259032.79	43389.79048	0.48183	0.14473	0.4578	0.15416	1.99E-03	1.97E-05	5.18E-06	1.87E-05	5.29E-06	2.0396E-03
520486.01	4258212.02	43365.98544	0.17151	0.2863	0.17468	0.30431	1.99E-03	7.02E-06	1.02E-05	7.15E-06	1.04E-05	2.0244E-03
520403.96	4259019.23	43344.44813	0.43569	0.14225	0.41439	0.151	1.99E-03	1.78E-05	5.09E-06	1.70E-05	5.18E-06	2.0336E-03
520522.55	4258257.7	43325.5833	0.16507	0.2406	0.16503	0.25375	1.99E-03	6.76E-06	8.61E-06	6.76E-06	8.71E-06	2.0185E-03
520158.4	4258302.56	43304.74833	0.30099	3.51223	0.31246	4.0294	1.99E-03	1.23E-05	1.26E-04	1.28E-05	1.38E-04	2.2758E-03
520503.79	4258229.65	43304.1313	0.16811	0.26235	0.16886	0.27829	1.99E-03	6.88E-06	9.38E-06	6.95E-06	9.55E-06	2.0195E-03
520551.62	4258461.66	43289.0779	0.17697	0.19239	0.17382	0.20277	1.99E-03	7.25E-06	6.88E-06	7.12E-06	6.96E-06	2.0142E-03
520354.55	4258183.18	43276.10992	0.20167	0.59467	0.20714	0.63881	1.99E-03	8.26E-06	2.13E-05	8.48E-06	2.19E-05	2.0454E-03
520131.6	4259038.23	43256.93824	5.11861	0.3065	4.46134	0.28625	1.98E-03	2.10E-04	1.10E-05	1.83E-04	9.83E-06	2.3976E-03
520187.86	4258272.66	43191.60023	0.2771	2.35838	0.29065	2.66042	1.98E-03	1.13E-05	8.44E-05	1.19E-05	9.13E-05	2.1805E-03
520432.86	4258183.42	43144.68326	0.18174	0.37977	0.18694	0.40356	1.98E-03	7.44E-06	1.36E-05	7.65E-06	1.39E-05	2.0219E-03
520014.36	4258899.91	43114.96265	2.35795	0.41779	2.8591	0.4102	1.98E-03	9.65E-05	1.49E-05	1.17E-04	1.41E-05	2.2207E-03
520512.6	4258884.19	43102.44892	0.25341	0.13784	0.24291	0.14459	1.98E-03	1.04E-05	4.93E-06	9.95E-06	4.96E-06	2.0077E-03
520315.36	4258193.05	43070.07669	0.21436	0.76376	0.2221	0.82946	1.98E-03	8.78E-06	2.73E-05	9.09E-06	2.85E-05	2.0496E-03
520532.88	4258845.77	43068.62452	0.23023	0.13902	0.22099	0.14531	1.98E-03	9.43E-06	4.97E-06	9.05E-06	4.99E-06	2.0043E-03
520025.98	4258924.69	43026.58045	3.05766	0.38975	3.86782	0.38172	1.97E-03	1.25E-04	1.39E-05	1.58E-04	1.31E-05	2.2846E-03
520236.93	4258232.81	43020.85899	0.24786	1.40969	0.26208	1.56622	1.97E-03	1.01E-05	5.04E-05	1.07E-05	5.38E-05	2.0988E-03
520456.47	4258967.47	42981.15873	0.3319	0.1388	0.31622	0.14579	1.97E-03	1.36E-05	4.96E-06	1.29E-05	5.01E-06	2.0084E-03
520355.85	4259052.84	42973.71176	0.57108	0.14983	0.54124	0.1604	1.97E-03	2.34E-05	5.36E-06	2.22E-05	5.51E-06	2.0280E-03
520148.58	4258312.53	42939.95114	0.38883	4.11485	0.31988	4.74919	1.97E-03	1.26E-05	1.47E-04	1.31E-05	1.63E-04	2.3360E-03
520555.67	4258420.56	42930.4835	0.17117	0.19441	0.16873	0.20451	1.97E-03	7.01E-06	6.95E-06	6.91E-06	7.02E-06	1.9975E-03
520050.82	4258964.92	42918.25962	6.17462	0.35739	9.85291	0.34453	1.97E-03	2.53E-04	1.28E-05	4.03E-04	1.18E-05	2.6499E-03
520451.62	4258187.29	42887.1976	0.17746	0.34303	0.18221	0.3648	1.97E-03	7.27E-06	1.23E-05	7.46E-06	1.25E-05	2.0071E-03
520040.75	4258950.77	42884.96843	4.4938	0.36681	6.24023	0.35632	1.97E-03	1.84E-04	1.31E-05	2.56E-04	1.22E-05	2.4323E-03
520460.6	4258191.14	42880.82189	0.17568	0.32669	0.18011	0.34756	1.97E-03	7.19E-06	1.17E-05	7.37E-06	1.19E-05	2.0055E-03
520197.68	4258362.69	42878.35119	2.66929	2.10351	2.88329	2.3634	1.97E-03	1.10E-05	7.53E-05	1.16E-05	8.11E-05	2.1462E-03
520429.81	4258998.52	42864.16567	0.38036	0.1396	0.36225	0.14735	1.97E-03	1.56E-05	4.98E-06	1.48E-05	5.06E-06	2.0070E-03
519989.62	4258809.75	42855.98699	1.37431	0.58419	1.6053	0.56469	1.97E-03	5.63E-05	2.09E-05	6.57E-05	1.94E-05	2.1284E-03
519997.12	4258673.87	42822.60632	1.06341	1.28263	1.28075	1.17508	1.96E-03	4.35E-05	4.59E-05	5.24E-05	4.03E-05	2.1468E-03
520489.59	4258923.74	42820.33751	0.28263	0.13765	0.2703	0.14447	1.96E-03	1.16E-05	4.92E-06	1.11E-05	4.96E-06	1.9970E-03
520094.88	4259013.08	42814.87941	13.46122	0.33011	12.04709	0.30797	1.96E-03	5.51E-04	1.18E-05	4.93E-04	1.06E-05	3.0311E-03
520344.76	4258183.15	42806.24584	0.20368	0.6322	0.20962	0.6806	1.96E-03	8.34E-06	2.26E-05	8.58E-06	2.34E-05	2.0268E-03
520122.56	4259034.5	42785.73089	6.20198	0.31142	5.35437	0.28993	1.96E-03	2.54E-04	1.11E-05	2.19E-04	9.95E-06	2.4572E-03
520494.68	4258215.74	42778.1914	0.1691	0.27465	0.17178	0.29171	1.96E-03	6.92E-06	9.82E-06	7.03E-06	1.00E-05	1.9964E-03
520375.64	4259042.8	42771.97732	50.5931	0.14539	48.8363	0.15517	1.96E-03	2.09E-05	5.20E-06	1.98E-05	5.33E-06	2.0135E-03
520480.39	4258937.55	42769.17986	0.29543	0.13779	0.28215	0.14462	1.96E-03	1.21E-05	4.93E-06	1.16E-05	4.96E-06	1.9957E-03
520537.26	4258284.03	42731.80778	0.16279	0.22529	0.16218	0.23625	1.96E-03	6.67E-06	8.06E-06	6.64E-06	8.11E-06	1.9899E-03
520532.26	4258271.87	42703.26947	0.16313	0.23068	0.16263	0.24235	1.96E-03	6.68E-06	8.25E-06	6.66E-06	8.32E-06	1.9891E-03
520060.67	4258978.98	42702.92462	8.9141	0.34835	17.06479	0.33305	1.96E-03	3.65E-04	1.25E-05	6.99E-04	1.14E-05	3.0467E-03
520099.42	4258382.38	42695.03816	0.38577	14.08928	0.40806	16.00012	1.96E-03	1.58E-05	5.04E-04	1.67E-05	5.49E-04	3.0445E-03
520009.93	4258628.15	42693.51905	1.04484	1.90931	1.29384	1.69202	1.96E-03	4.28E-05	6.83E-05	5.30E-05	5.81E-05	2.1808E-03
520412.51	4259015.69	42692.72657	0.41648	0.14028	0.39607	0.14871	1.96E-03	1.71E-05	5.02E-06	1.62E-05	5.11E-06	2.0021E-03
520498.98	4258909.84	42685.49962	0.2704	0.13723	0.25879	0.14404	1.96E-03	1.11E-05	4.91E-06	1.06E-05	4.95E-06	1.9898E-03
520469.58	4258194.98	42684.93567	0.17366	0.31191	0.17779	0.33175	1.96E-03	7.11E-06	1.12E-05	7.28E-06	1.14E-05	1.9952E-03
520442.65	4258183.45	42682.331	0.17893	0.36057	0.184	0.38304	1.96E-03	7.33E-06	1.29E-05	7.53E-06	1.32E-05	1.9991E-03
520556.86	4258397.81	42672.93957	0.16836	0.19564	0.16624	0.20599	1.96E-03	6.89E-06	7.00E-06	6.81E-06	7.07E-06	1.9855E-03
520554.31	4258351.4	42656.17471	0.16439	0.2027	0.16371	0.2135	1.96E-03	6.73E-06	7.25E-06	6.70E-06	7.33E-06	1.9850E-03
520007.12	4258636.77	42654.40538	1.04702	1.75721	1.28953	1.56951	1.96E-03	4.29E-05	6.29E-05	5.28E-05	5.39E-05	2.1693E-03
520521.97	4258870.3	42651.57735	0.24278	0.13739	0.23282	0.14396	1.96E-03	9.94E-06	4.91E-06	9.53E-06	4.94E-06	1.9861E-03
519986.58	4258778.3	42608.06108	1.23437	0.67572	1.44379	0.64625	1.95E-03	5.05E-05	2.42E-05	5.91E-05	2.22E-05	2.1108E-03
520447.36	4258981.24	42600.01479	0.34785	0.13846	0.33141	0.14561	1.95E-03	1.42E-05	4.95E-06	1.36E-05	5.00E-06	1.9922E-03
520285.97	4258202.96	42597.55318	0.22447	0.94128	0.23486	1.03107	1.95E-03	9.19E-06	3.37E-05	9.62E-06	3.54E-05	2.0422E-03
520548.83	4258319.02	42587.4077	0.16273	0.21149	0.16246	0.22188	1.95E-03	6.66E-06	7.56E-06	6.65E-06	7.62E-06	1.9823E-03
520555.61	4258361.97	42585.58433	0.16504	0.20039	0.16401	0.2112	1.95E-03	6.76E-06	7.17E-06	6.72E-06	7.25E-06	1.9816E-03
520030.43	4258936.52	42563.13077	3.41153	0.37085	4.41023	0.36838	1.95E-03	1.40E-04	1.35E-05	1.81E-04	1.26E-05	2.2991E-03
520266.36	4258212.9	42559.53769	0.23263	1.09594	0.24486	1.20692	1.95E-03	9.52E-06	3.92E-05	1.00E-05	4.14E-05	2.0527E-03
520471.38	4258951.29	42555.8058	0.30868	0.13763	0.29443	0.14446	1.95E-03	1.26E-05	4.92E-06	1.21E-05	4.96E-06	1.9870E-03
520553.17	4258340.9	42523.12538	0.16359	0.20512	0.16321	0.21576	1.95E-03	6.70E-06	7.34E-06	6.68E-06	7.41E-06	1.9790E-03
519999.34	4258863.73	42491.90552	1.73319	0.46913	2.03908	0.459	1.95E-03	7.10E-05	1.68E-05	8.35E-05	1.58E-05	2.1364E-03
520207.5	4258252.72	42483.30854	0.26168	1.88899	0.27586	2.11581	1.95E-03	1.07E-05	6.76E-05	1.13E-05	7.26E-05	2.1113E-03
520019.81	4258599.01	42460.31741	1.02424	2.57719	1.2939	2.2103	1.95E-03	4.19E-05	9.22E-05	5.30E-05	7.59E-05	2.2110E-03
520138.76	4258322.5	42417.4221	0.31668	4.90542	0.32754	5.71974	1.95E-03	1.30E-05	1.75E-04	1.34E-05	1.96E-04	2.3442E-03
520508.59	4258895.85	42409.62596	0.25861	0.13677	0.24776	0.14351	1.95E-03	1.06E-05	4.89E-06	1.01E-05	4.93E-06	1.9762E-03
520570.6	4258741.78	42391.0287	0.18923	0.14637	0.18133	0.15236	1.94E-03	7.75E-06	5.24E-06	7.42E-06	5.23E-06	1.9705E-03
519986.12	4258753.09	42361.63704	1.1516	0.76942	1.35706	0.72804	1.94E-03	4.72E-05	2.75E-05	5.56E-05	2.50E-05	2.0987E-03
520478.56	4258198.82	42353.21008	0.17149	0.29818	0.17526	0.31701	1.94E-03	7.02E-06	1.07E-05	7.18E-06	1.09E-05	1.9788E-03
520113.52	4259030.77	42344.27309	7.76523	0.31542	6.63683	0.29323	1.94E-03	3.18E-04	1.13E-05	2.72E-04	1.01E-05	2.5537E-03
520574.35	4258708.88	42337.91911	0.18333	0.1504	0.17593	0.15686	1.94E-03	7.51E-06	5.38E-06	7.20E-06	5.39E-06	1.9679E-03
520512.53	4258233.39	42336.45448	0.16538	0.25243	0.16663	0.26733	1.94E-03	6.77E-06	9.03E-06	6.82E-06	9.18E-06	1.9741E-03
520521.88	4258247.4	42314.15139	0.16389	0.2418	0.16421	0.25537	1.94E-03	6.71E-06	8.65E-06	6.72E-06	8.77E-06	1.9721E-03
519993.85	4258844.06	42314.04217	1.54587	0.50425	1.80564	0.49156	1.94E-03	6.33E-05	1.80E-05	7.39E-05	1.69E-05	2.1134E-03
520334.97	4258183.12	42312.66726	0.20569	0.67299	0.21219	0.72656	1.94E-03	8.42E-06	2.41E-05	8.69E-06	2.49E-05	2.0073E-03
520305.57	4258193.02	42297.16935	0.21599	0.818	0.22466	0.89083	1.94E-03	8.84E-06	2.93E-05	9.20E-06	3.06E-05	2.0184E-03
520015.81	4258910.5	42288.20087	2.44266	0.40196	2.9759	0.3948	1.94E-03	1.00E-04	1.44E-05	1.22E-04	1.36E-05	2.1899E-03
520246.75	4258222.84	42204.82442	0.2403	1.29311	0.2539	1.43219	1.94E-03	9.84E-06	4.63E-05	1.04E-05	4.92E-05	2.0519E-03
520547.73	4258308.53	42196.52638	0.16188	0.21354	0.16145	0.22385	1.94E-03	6.63E-06	7.64E-06	6.61E-06	7.68E-06	1.9645E-03
520393.73	4258173.3	42195.00555	0.18869	0.47401	0.19356	0.50494	1.94E-03	7.73E-06	1.70E-05	7.93E-06	1.73E-05	1.9858E-03
520085.77	4259009.33	42173.64889	15.97974	0.33019	18.86667	0.30964	1.93E-03	6.54E-04	1.18E-05	7.72E-04	1.06E-05	3.3840E-03
520403.52	4258173.33	42151.86957	0.18629	0.44855	0.19124	0.47713	1.93E-03	7.63E-06	1.60E-05	7.83E-06	1.64E-05	1.9817E-03
520395.42	4259032.77	42151.31641	0.45651	0.14134	0.43396	0.15033	1.93E-03	1.87E-05	5.06E-06	1.78E-05	5.16E-06	1.9805E-03
520383.95	4258173.27	42129.03275	0.19098	0.50137	0.19585	0.53497	1.93E-03	7.82E-06	1.79E-05	8.02E-06	1.84E-05	1.9849E-03
520546.67	4258822.87	42094.27877	0.21601	0.13909	0.20739	0.14501	1.93E-03	8.84E-06	4.98E-06	8.49E-06	4.98E-06	1.9585E-03
520550.31	4258314.19	42064.0913	0.21215	0.13965	0.20366	0.1455	1.93E-03	8.69E-06	5.00E-06	8.34E-06	5.00E-06	1.9568E-03
520503.36	4258219.45	42063.51431	0.1666	0.26375	0.16827	0.27987	1.93E-03	6.82E-06	9.43E-06	6.91E-06	9.61E-06	1.9626E-03
520365.75	4259052.82	42061.92073	0.53894	0.14615	0.51132	0.15628	1.93E-03	2.21E-05	5.23E-06	2.09E-05	5.37E-06	1.9833E-03
520413.31	4258173.36	42061.45411	0.18391	0.42472	0.18889	0.45142	1.93E-03	7.53E-06	1.52E-05	7.73E-06	1.55E-05	1.9757E-03
520531.58	4258356.31	42043.34571	0.23238	0.13716	0.22308	0.14347	1.93E-03	9.51E-06	4.91E-06	9.13E-06	4.93E-06	1.9573E-03
520000.96	4258874.39	42029.99576	1.80198	0.44992	2.12131	0.44095	1.93E-03	7.38E-05	1.61E-05	8.69E-05	1.51E-05	2.1201E-03
520421.05	4259012.15	41986.19263	0.39834	0.13862	0.3792	0.1467	1.93E-03	1.63E-05	4.96E-06	1.55E-05	5.04E-06	1.9681E-03
520553.94	4258805.51	41984.57825	0.20835	0.14018	0.19998	0.14594	1.93E-03	8.53E-06	5.01E-06	8.19E-06	5.01E-06	1.9529E-03
520217.32	4258242.75	41967.98386	0.25416	1.70725	0.26837	1.90579	1.93E-03	1.04E-05	6.11E-05	1.10E-05	6.54E-05	2.0733E-03
520438.41	4258994.96	41964.44888	0.36424	0.13782	0.34705	0.14522	1.93E-03	1.49E-05	4.93E-06	1.42E-05	4.99E-06	1.9643E-03
520374.16	4258173.24	41940.20992	0.19315	0.53091	0.19815	0.56747	1.92E-03	7.91E-06	1.90E-05	8.11E-06	1.95E-05	1.9786E-03
520487.53	4258202.66	41909.89434	0.16921	0.2853	0.17256	0.30316	1.92E-03	6.93E-06	1.02E-05	7.07E-06	1.04E-05	1.9574E-03
520531.44	4258261.51	41899.47847	0.16212	0.23191	0.16175	0.24404	1.92E-03	6.64E-06	8.30E-06	6.62E-06	8.38E-06	1.9522E-03
520423.1	4258173.39	41885.53884	0.18147	0.40244	0.18644	0.42754	1.92E-03	7.43E-06	1.44E-05	7.63E-06	1.47E-05	1.9658E-03
520104.49	4259027.04	41865.32827	10.02281	0.3181	8.55897	0.29597	1.92E-03	4.10E-04	1.14E-05	3.51E-04	1.02E-05	2.7035E-03
520557.58	4258796.83	41847.9946	0.20461	0.14069	0.19636	0.14637	1.92E-03	8.38E-06	5.03E-06	8.04E-06	5.03E-06	1.9464E-03
520109.27	4258362.41	41827.92221	0.35706	9.93389	0.37374	11.78621	1.92E-03	1.46E-05	3.55E-04	1.53E-05	4.05E-04	2.7089E-03
520465.2	4258963.85	41801.94968	0.31839	0.13677	0.30357	0.14356	1.92E-03	1.30E-05	4.89E-06	1.24E-05	4.93E-06	1.9531E-03
519985.87	4258800.71	41765.02319	1.2726	0.60285	1.48146	0.58082	1.92E-03	5.21E-05	2.16E-05	6.07E-05	1.99E-05	2.0704E-03
520003.68	4258885.5	41754.95011	1.90885	0.4322	2.25712	0.4242	1.92E-03	7.82E-05	1.55E-05	9.24E-05	1.46E-05	2.1162E-03
520325.18	4258183.08	41741.42386	0.20756	0.71765	0.21477	0.77708	1.92E-03	8.50E-06	2.57E-05	8.79E-06	2.67E-05	1.9847E-03
520059.4	4258501.87	41712.54558	0.75297	13.19356	0.85982	7.96512	1.91E-03	3.08E-05	4.72E-04	3.52E-05	2.73E-04	2.7251E-03
520574.06	4258733.51	41710.59665	0.18604	0.14633	0.17833	0.15243	1.91E-03	7.62E-06	5.23E-06	7.30E-06	5.23E-06	1.9390E-03
520364.37	4258171.21	41704.0416	0.19531	0.56271	0.20051	0.60286	1.91E-03	8.00E-06	8.21E-06	8.21E-06	2.07E-05	1.9703E-03
520041.83	4258961.21	41693.11792	4.65112	0.35423	6.51307	0.3439	1.91E-03	1.90E-04	1.27E-05	2.67E-04	1.18E-05	2.3944E-03
519990.14	4258835.12	41675.40822	1.43809	0.51958	1.67193	0.50544	1.91E-03	5.89E-05	1.86E-05	6.85E-05	1.74E-05	2.0753E-03
520385.54	4259042.79	41661.38367	0.48198	0.14192	0.4579	0.15125	1.91E-03	1.97E-05	5.08E-06	1.87E-05	5.19E-06	1.9601E-03
520546.76	4258298.1	41630.84835	0.16089	0.21565	0.16036	0.22589	1.91E-03	6.59E-06	7.71E-06	6.57E-06	7.76E-06	1.9386E-03
520051.75	4258975.3	41630.7529	6.39395	0.34525	10.37462	0.33269	1.91E-03	2.62E-04	1.23E-05	4.25E-04	1.14E-05	2.6203E-03
520403.92	4259029.25	41627.70588	0.43614	0.13949	0.41484	0.14816	1.91E-03	1.79E-05	4.99E-06	1.70E-05	5.09E-06	1.9547E-03
520561.21	4258788.15	41625.82791	0.20089	0.14107	0.19273	0.14668	1.91E-03	8.23E-06	5.05E-06	7.89E-06	5.04E-06	1.9359E-03
520554.95	4258470.43	41620.72111	0.17588	0.18906	0.1724	0.19929	1.91E-03	7.20E-06	6.76E-06	7.06E-06	6.84E-06	1.9373E-03
519988.27	4258710.04	41583.77319	1.05141	0.97989	1.24161	0.91295	1.91E-03	4.30E-05	3.50E-05	5.08E-05	3.13E-05	2.0681E-03
520276.18	4258202.93	41559.35072	0.27541	1.01631	0.23682	1.11599	1.91E-03	9.23E-06	3.64E-05	9.70E-06	3.83E-05	2.0003E-03
520432.89	4258173.42	41556.72296	0.17887	0.38178	0.18386	0.40534	1.91E-03	7.32E-06	1.37E-05	7.53E-06	1.39E-05	1.9490E-03
520456.03	4258977.66	41518.47371	0.33344	0.13653	0.31784	0.14341	1.90E-03	1.37E-05	4.88E-06	1.30E-05	4.92E-06	1.9413E-03
520520.98	4258880.72	41495.82151	0.24456	0.13566	0.23464	0.14217	1.90E-03	1.00E-05	4.85E-06	9.61E-06	4.88E-06	1.9311E-03
520558.91	4258429.07	41491.55093	0.17037	0.19119	0.16776	0.20106	1.90E-03	6.98E-06	6.84E

520049.48	4258521.31	40959.43353	0.81503	7.72475	0.95063	5.52178	1.88E-03	3.34E-05	2.76E-04	3.89E-05	1.90E-04	2.4173E-03	
519986.43	4258826.18	40911.2484	1.33766	0.53542	1.54972	0.51958	1.88E-03	5.48E-05	1.92E-05	6.35E-05	1.78E-05	2.0321E-03	
520344.79	4258173.15	40898.93969	0.19921	0.63476	0.20533	0.68323	1.88E-03	8.16E-06	2.27E-05	8.41E-06	2.35E-05	1.9391E-03	
520517.31	4258892.25	40821.45872	0.24915	0.13452	0.23895	0.14103	1.87E-03	1.02E-05	4.81E-06	9.78E-06	4.84E-06	1.9024E-03	
520178.07	4258272.63	40807.29882	0.27305	2.67629	0.28428	3.03088	1.87E-03	1.12E-05	9.57E-05	1.16E-05	1.04E-04	2.0948E-03	
520168.25	4258282.6	40803.04554	0.28023	3.05343	0.29067	3.47826	1.87E-03	1.15E-05	1.09E-04	1.19E-05	1.19E-04	2.1240E-03	
520236.96	4258222.81	40745.51455	0.23971	1.41635	0.2534	1.5719	1.87E-03	9.81E-06	5.07E-05	1.04E-05	5.40E-05	1.9941E-03	
520086.42	4259019.59	40713.91338	15.69544	0.31936	18.13915	0.29961	1.87E-03	6.43E-04	1.14E-05	7.43E-04	1.03E-05	3.2749E-03	
520187.89	4258262.66	40680.51168	0.26592	2.36821	0.27788	2.66899	1.87E-03	1.09E-05	8.47E-05	1.14E-05	9.16E-05	2.0649E-03	
520572.12	4258762.1	40668.39376	0.19034	0.14216	0.18249	0.14769	1.87E-03	7.79E-06	5.08E-06	7.47E-06	5.07E-06	1.8912E-03	
520158.43	4258292.56	40618.27312	0.28732	3.52511	0.29711	4.04013	1.86E-03	1.18E-05	1.26E-04	1.22E-05	1.39E-04	2.1522E-03	
520505.49	4258210.35	40612.49689	0.1643	0.26225	0.16675	0.27815	1.86E-03	6.73E-06	9.38E-06	6.83E-06	9.55E-06	1.8957E-03	
520487.21	4258192.51	40605.42832	0.16736	0.2869	0.17095	0.30475	1.86E-03	6.85E-06	1.03E-05	7.00E-06	1.05E-05	1.8975E-03	
519982.12	4258791.66	40535.44661	1.17812	0.62175	1.36659	0.59687	1.86E-03	4.82E-05	2.22E-05	5.60E-05	2.05E-05	2.0066E-03	
520286	4258192.96	40528.44019	0.21845	0.94539	0.22912	1.03491	1.86E-03	8.94E-06	3.38E-05	9.38E-06	3.55E-05	1.9470E-03	
520042.84	4258971.62	40515.78958	4.8046	0.34232	6.78364	0.33217	1.86E-03	1.97E-04	1.22E-05	2.78E-04	1.14E-05	2.3560E-03	
520119.12	4258342.44	40515.68692	0.33119	7.54537	0.34375	8.98191	1.86E-03	1.36E-05	2.70E-04	1.41E-05	3.08E-04	2.4647E-03	
520395.44	4259042.77	40497.34957	0.45666	0.13861	0.43412	0.14751	1.86E-03	1.87E-05	4.96E-06	1.78E-05	5.06E-06	1.9044E-03	
520006.88	4258906.81	40488.3594	2.05375	0.39969	2.44511	0.39302	1.86E-03	8.41E-05	1.43E-05	1.00E-04	1.35E-05	2.0695E-03	
520393.77	4258163.3	40471.11143	0.18512	0.47618	0.18978	0.50694	1.86E-03	7.58E-06	1.70E-05	7.77E-06	1.74E-05	1.9065E-03	
520197.71	4258252.69	40470.22217	0.25894	2.11199	0.27143	2.37202	1.86E-03	1.06E-05	7.55E-05	1.11E-05	8.14E-05	2.0354E-03	
520403.55	4258163.33	40469.4465	0.1829	0.45072	0.18758	0.47908	1.86E-03	7.49E-06	1.61E-05	7.68E-06	1.64E-05	1.9044E-03	
519982.5	4258744.34	40457.30199	1.06046	0.79075	1.24024	0.74582	1.86E-03	4.34E-05	2.83E-05	5.08E-05	2.56E-05	2.0042E-03	
520335	4258173.12	40453.8013	0.20114	0.67553	0.20784	0.72945	1.86E-03	8.24E-06	2.42E-05	8.51E-06	2.50E-05	1.9219E-03	
520413.34	4258163.36	40423.03986	0.18068	0.42683	0.18538	0.45328	1.85E-03	7.40E-06	1.53E-05	7.59E-06	1.56E-05	1.9003E-03	
520266.39	4258202.9	40416.59914	0.22586	1.10102	0.23816	1.21128	1.85E-03	9.25E-06	9.75E-06	3.94E-05	4.16E-05	1.9542E-03	
520464.69	4258974.07	40409.25496	0.31994	0.13464	0.30519	0.1413	1.85E-03	1.31E-05	4.82E-06	1.25E-05	4.85E-06	1.8892E-03	
520032.84	4258957.5	40396.98045	3.64843	0.35112	4.77189	0.34291	1.85E-03	1.49E-04	1.26E-05	1.95E-04	1.18E-05	2.2224E-03	
520540.33	4258265.31	40391.1348	0.15918	0.22367	0.1586	0.23486	1.85E-03	6.52E-06	8.00E-06	6.49E-06	8.06E-06	1.8821E-03	
520438.15	4259005.07	40382.73363	0.36524	0.13524	0.34813	0.14263	1.85E-03	1.50E-05	4.84E-06	1.43E-05	4.90E-06	1.8916E-03	
520383.98	4258163.27	40380.2316	0.18726	0.50357	0.19199	0.53707	1.85E-03	7.67E-06	1.80E-05	7.86E-06	1.84E-05	1.9045E-03	
520052.62	4258985.65	40373.96967	6.60144	0.33383	10.91077	0.32156	1.85E-03	2.70E-04	1.19E-05	4.47E-04	1.10E-05	2.5923E-03	
520420.91	4259022.22	40366.31466	0.39905	0.13594	0.37991	0.14397	1.85E-03	1.63E-05	4.86E-06	1.56E-05	4.94E-06	1.8936E-03	
520540.11	4258852.78	40320.53528	0.22438	0.13501	0.21557	0.14105	1.85E-03	9.19E-06	4.83E-06	8.83E-06	4.84E-06	1.8775E-03	
520423.13	4258163.39	40302.79239	0.17842	0.40444	0.18312	0.42931	1.85E-03	7.31E-06	1.45E-05	7.50E-06	1.47E-05	1.8930E-03	
520305.61	4258183.02	40300.06263	0.2106	0.82135	0.21962	0.89401	1.85E-03	8.62E-06	2.94E-05	8.99E-06	3.07E-05	1.9266E-03	
520148.61	4258302.53	40233.25463	0.29429	4.12913	0.30374	4.76045	1.85E-03	1.20E-05	1.48E-04	1.24E-05	1.63E-04	2.1814E-03	
520520.72	4258226.88	40228.473	0.16136	0.24435	0.16258	0.25847	1.85E-03	6.61E-06	8.74E-06	6.66E-06	8.87E-06	1.8765E-03	
520575.75	4258753.42	40182.79666	0.18696	0.1422	0.1792	0.14782	1.84E-03	7.65E-06	5.09E-06	7.34E-06	5.07E-06	1.8687E-03	
520374.19	4258163.24	40172.16088	0.18928	0.53312	0.19422	0.56965	1.84E-03	7.75E-06	1.91E-05	7.95E-06	1.96E-05	1.8973E-03	
520530.02	4258240.87	40138.93303	0.15992	0.23418	0.1602	0.24713	1.84E-03	6.55E-06	8.38E-06	6.56E-06	8.48E-06	1.8715E-03	
520581.34	4258692.19	40137.92405	0.17736	0.15018	0.17028	0.15641	1.84E-03	7.26E-06	5.37E-06	6.97E-06	5.37E-06	1.8664E-03	
520207.53	4258242.72	40137.49448	0.252	1.89707	0.2649	2.12313	1.84E-03	1.03E-05	6.79E-05	1.08E-05	7.29E-05	2.0033E-03	
520496.11	4258196.32	40128.75426	0.16516	0.27467	0.16832	0.29165	1.84E-03	6.76E-06	9.82E-06	6.89E-06	1.00E-05	1.8745E-03	
520558.29	4258479.19	40114.26465	0.17474	0.18577	0.17088	0.19583	1.84E-03	7.15E-06	6.64E-06	7.00E-06	6.72E-06	1.8678E-03	
520556.51	4258312.29	40107.92628	0.1588	0.20577	0.1584	0.21571	1.84E-03	6.50E-06	7.36E-06	6.49E-06	7.41E-06	1.8678E-03	
520580.99	4258716.98	40096.97801	0.17992	0.14623	0.17265	0.15242	1.84E-03	7.37E-06	5.23E-06	7.07E-06	5.23E-06	1.8645E-03	
520561.7	4258344.55	40095.31178	0.16042	0.19789	0.15977	0.20821	1.84E-03	6.57E-06	7.08E-06	6.54E-06	7.15E-06	1.8668E-03	
520488.27	4258944.29	40070.2866	0.28567	0.13377	0.27326	0.14026	1.84E-03	1.17E-05	4.78E-06	1.12E-05	4.82E-06	1.8708E-03	
520009.89	4258618.45	40065.43	0.96947	1.99029	1.19408	1.75881	1.84E-03	3.97E-05	7.12E-05	4.89E-05	6.04E-05	2.0583E-03	
520497.41	4258930.5	40048.47901	0.27368	0.13345	0.26187	0.13997	1.84E-03	1.12E-05	4.77E-06	1.07E-05	4.81E-06	1.8680E-03	
520562.93	4258355.09	40045.88354	0.16108	0.19566	0.16009	0.20604	1.84E-03	6.60E-06	7.00E-06	6.55E-06	7.07E-06	1.8645E-03	
520385.56	4259052.79	40034.11417	0.482	0.13919	0.4579	0.14843	1.84E-03	1.97E-05	4.98E-06	1.87E-05	5.10E-06	1.8852E-03	
520432.92	4258163.42	40030.06677	0.176	0.38369	0.18074	0.40699	1.84E-03	7.21E-06	1.37E-05	7.40E-06	1.40E-05	1.8738E-03	
520562.15	4258437.59	40027.61481	0.16951	0.18802	0.16671	0.19771	1.84E-03	6.94E-06	6.73E-06	6.83E-06	6.79E-06	1.8637E-03	
519982.73	4258817.24	40019.02391	1.24365	0.55181	1.43772	0.5339	1.84E-03	5.09E-05	1.97E-05	5.89E-05	1.83E-05	1.9838E-03	
520455.62	4258987.83	40017.41284	0.33474	0.13423	0.31925	0.14104	1.84E-03	1.37E-05	4.80E-06	1.31E-05	4.84E-06	1.8723E-03	
520022.62	4258943.29	40010.20203	2.86096	0.36076	3.57112	0.35402	1.84E-03	1.17E-04	1.29E-05	1.46E-04	1.22E-05	2.1240E-03	
520094.69	4259031.31	40005.31464	13.47248	0.31077	12.13057	0.29039	1.84E-03	5.52E-04	1.11E-05	4.97E-04	9.97E-06	2.9047E-03	
520246.78	4258212.84	40005.07615	0.23268	1.29938	0.24599	1.43706	1.84E-03	9.53E-06	4.65E-05	1.01E-05	4.93E-05	1.9508E-03	
520563.96	4258390.6	39995.01208	0.16419	0.19055	0.16206	0.20063	1.83E-03	6.72E-06	6.82E-06	6.64E-06	6.89E-06	1.8620E-03	
520404.18	4259039.15	39992.08767	0.43578	0.13676	0.41455	0.14533	1.83E-03	1.78E-05	4.89E-06	1.70E-05	4.99E-06	1.8795E-03	
520563.81	4258416.06	39989.08215	0.16681	0.18914	0.16429	0.1988	1.83E-03	6.83E-06	6.77E-06	6.73E-06	6.82E-06	1.8618E-03	
520506.73	4258916.64	39926.20279	0.26213	0.13313	0.25107	0.13963	1.83E-03	1.07E-05	4.76E-06	1.03E-05	4.79E-06	1.8623E-03	
520364.4	4258163.21	39918.15973	0.19128	0.56495	0.19653	0.60511	1.83E-03	7.83E-06	2.02E-05	8.05E-06	2.08E-05	1.8882E-03	
520325.21	4258173.08	39892.23918	0.20284	0.72029	0.21029	0.78008	1.83E-03	8.31E-06	2.58E-05	8.61E-06	2.68E-05	1.8996E-03	
519992.19	4258807.77	39842.27542	1.54782	0.44745	1.7981	0.43809	1.83E-03	6.34E-05	1.60E-05	7.26E-05	1.50E-05	1.9959E-03	
520099.45	4258372.38	39788.57443	0.36281	14.14659	0.3829	15.72817	1.83E-03	1.49E-05	5.06E-04	1.57E-05	5.40E-04	2.9019E-03	
520460.39	4258171.02	39781.43764	0.17063	0.33126	0.17534	0.35121	1.83E-03	6.99E-06	1.18E-05	7.18E-06	1.21E-05	1.8632E-03	
520469.23	4258174.8	39771.6649	0.1691	0.31603	0.17353	0.33532	1.82E-03	6.92E-06	1.13E-05	7.11E-06	1.15E-05	1.8615E-03	
520514.47	4258214.19	39769.54111	0.1617	0.2519	0.16369	0.26681	1.82E-03	6.62E-06	9.01E-06	6.70E-06	9.16E-06	1.8560E-03	
520555.45	4258301.82	39757.91779	0.15795	0.2078	0.15743	0.21764	1.82E-03	6.47E-06	7.43E-06	6.45E-06	7.47E-06	1.8518E-03	
520008.28	4258917.38	39746.54742	2.12129	0.38488	2.53432	0.3787	1.82E-03	8.69E-05	1.38E-05	1.04E-04	1.30E-05	2.0409E-03	
520451.55	4258167.23	39727.10776	0.17207	0.34737	0.1769	0.36814	1.82E-03	7.05E-06	1.24E-05	7.24E-06	1.26E-05	1.8620E-03	
520217.35	4258232.75	39701.44388	0.24514	1.71473	0.25829	1.91231	1.82E-03	1.00E-05	6.13E-05	1.06E-05	6.57E-05	1.9690E-03	
520539.51	4258254.95	39686.08037	0.15821	0.22475	0.15779	0.23638	1.82E-03	6.48E-06	8.04E-06	6.46E-06	8.12E-06	1.8498E-03	
520516.26	4258902.69	39673.68854	0.25098	0.13273	0.24065	0.13916	1.82E-03	1.03E-05	4.75E-06	9.85E-06	4.78E-06	1.8498E-03	
520138.79	4258312.5	39672.38932	0.30117	4.92349	0.31061	5.72023	1.82E-03	1.23E-05	1.76E-04	1.27E-05	1.96E-04	2.2176E-03	
520058.46	4258998.05	39661.11851	8.23962	0.32434	16.70518	0.31104	1.82E-03	3.37E-04	1.16E-05	6.84E-04	1.07E-05	2.8632E-03	
520429.41	4259018.7	39650.67072	0.3821	0.13428	0.36403	0.14199	1.82E-03	1.56E-05	4.80E-06	1.49E-05	4.87E-06	1.8593E-03	
520442.71	4258163.45	39637.77768	0.17346	0.36438	0.17824	0.38623	1.82E-03	7.10E-06	1.30E-05	7.30E-06	1.33E-05	1.8592E-03	
519994.57	4258881.74	39632.31051	1.62697	0.42991	1.89366	0.42166	1.82E-03	6.66E-05	1.54E-05	7.75E-05	1.45E-05	1.9923E-03	
519986.82	4258851.23	39619.41226	1.38887	0.47977	1.60753	0.46792	1.82E-03	5.69E-05	1.72E-05	6.58E-05	1.61E-05	1.9736E-03	
520478.07	4258178.58	39619.0082	0.16736	0.30181	0.17149	0.32036	1.82E-03	6.85E-06	1.08E-05	7.02E-06	1.10E-05	1.8533E-03	
520579.39	4258744.73	39558.10242	0.18365	0.14214	0.17601	0.14789	1.81E-03	7.52E-06	5.08E-06	7.21E-06	5.08E-06	1.8397E-03	
520354.61	4258163.18	39546.88841	0.19312	0.59954	0.19885	0.6436	1.81E-03	7.91E-06	2.14E-05	8.14E-06	2.21E-05	1.8739E-03	
519997.12	4258655.32	39527.39305	0.96057	1.41316	1.15572	1.28576	1.81E-03	3.93E-05	5.05E-05	4.73E-05	4.41E-05	1.9948E-03	
520276.21	4258192.93	39522.89179	0.21913	1.0208	0.2307	1.11991	1.81E-03	8.97E-06	3.65E-05	9.45E-06	3.84E-05	1.9066E-03	
520446.7	4259001.53	39503.00478	0.35011	0.13359	0.33392	0.14064	1.81E-03	1.43E-05	4.78E-06	1.37E-05	4.83E-06	1.8499E-03	
520295.82	4258182.99	39484.00621	0.21177	0.88184	0.22176	0.9623	1.81E-03	8.67E-06	3.15E-05	9.08E-06	3.30E-05	1.8938E-03	
520505.02	4258200.13	39474.69351	0.16277	0.26372	0.16556	0.27971	1.81E-03	6.66E-06	9.43E-06	6.78E-06	9.60E-06	1.8435E-03	
520553.69	4258830.05	39463.8569	0.21096	0.13509	0.20269	0.14078	1.81E-03	8.64E-06	4.83E-06	8.30E-06	4.83E-06	1.8371E-03	
520557.29	4258821.46	39447.21759	0.20729	0.13566	0.19917	0.14128	1.81E-03	8.49E-06	4.85E-06	8.15E-06	4.85E-06	1.8359E-03	
519979.4	4258761	39407.78779	1.05021	0.71611	1.22391	0.67903	1.81E-03	4.30E-05	2.56E-05	5.01E-05	2.33E-05	1.9500E-03	
520412.92	4259035.53	39406.5527	0.41625	0.13481	0.39595	0.14308	1.81E-03	1.70E-05	4.82E-06	1.62E-05	4.91E-06	1.8509E-03	
520012.13	4258928.96	39404.40082	2.29563	0.37155	2.77029	0.36559	1.81E-03	9.40E-05	1.33E-05	1.13E-04	1.26E-05	2.0411E-03	
520039.56	4258540.74	39386.33469	0.86413	5.20603	1.04037	4.01639	1.81E-03	3.54E-05	1.86E-04	4.26E-05	1.38E-04	2.2090E-03	
520560.88	4258812.87	39379.08865	0.2037	0.13618	0.19569	0.14172	1.81E-03	8.34E-06	4.87E-06	8.01E-06	4.87E-06	1.8327E-03	
520538.86	4258863.31	39373.81139	0.22637	0.13317	0.21747	0.13923	1.81E-03	9.27E-06	4.76E-06	8.90E-06	4.78E-06	1.8341E-03	
520550.22	4258279.56	39368.76248	0.15714	0.21437	0.15647	0.22442	1.81E-03	6.43E-06	7.67E-06	6.41E-06	7.70E-06	1.8344E-03	
520033.92	4258967.94	39357.84353	3.76285	0.33945	4.94539	0.33135	1.81E-03	1.54E-04	1.21E-05	2.02E-04	1.14E-05	2.1857E-03	
520043.77	4258982	39355.30591	4.95041	0.33103	7.04842	0.32106	1.81E-03	2.03E-04	1.18E-05	2.89E-04	1.10E-05	2.3197E-03	
520486.91	4258182.37	39327.97055	0.16545	0.28864	0.16924	0.30638	1.80E-03	6.77E-06	1.03E-05	6.93E-06	1.05E-05	1.8388E-03	
520526.02	4258888.64	39287.5519	0.24019	0.13233	0.2306	0.13862	1.80E-03	9.83E-06	4.73E-06	9.44E-06	4.76E-06	1.8312E-03	
520473.36	4258970.48	39279.21853	0.30718	0.1328	0.29333	0.13927	1.80E-03	1.26E-05	4.75E-06	1.20E-05	4.78E-06	1.8362E-03	
520564.48	4258804.28	39267.95341	0.20015	0.13666	0.19224	0.14212	1.80E-03	8.19E-06	4.89E-06	7.87E-06	4.88E-06	1.8274E-03	
520554.5	4258291.4	39258.62397	0.15699	0.20981	0.15639	0.21956	1.80E-03	6.43E-06	7.50E-06	6.40E-06	7.54E-06	1.8290E-03	
520561.76	4258462.44	39257.58313	0.17169	0.18544	0.16835	0.19527	1.80E-03	7.03E-06	6.63E-06	6.89E-06	6.70E-06	1.8283E-03	
520019.77	4258589.32	39250.58963	0.94386	2.67571	1.1862	2.28182	1.80E-03	3.86E-05	9.57E-05	4.86E-05	7.83E-05	2.0620E-03	
520256.6	4258202.87	39223.083	0.22587	1.19669	0.23871	1.31906	1.80E-03	9.25E-06	4.28E-05	9.77E-06	4.53E-05	1.9066E-03	
520315.43	4258173.05	39216.48298	0.20427	0.76972	0.21261	0.83566	1.80E-03	8.36E-06	2.75E-05	8.71E-06	2.87E-05	1.8725E-03	
520529.4	4258230.59	39215.30576	0.15875	0.23538	0.15946	0.24862	1.80E-03	6.50E-06	8.42E-06	6.53E-06	8.54E-06	1.8291E-03	
520227.17	4258222.78	39210.01456	0.23846	1.55801	0.25163	1.73243	1.80E-03	9.76E-06	5.57E-05	1.03E-05	5.95E-05	1.9342E-03	
519996.34	4258892.47	39200.63374	1.66092	0.41327	1.97271	0.40592	1.80E-03	6.92E-05	1.48E-05	8.08E-05	1.39E-05	1.9772E-03	
519978.37	4258782.62	39168.54224	1.08995	0.64058	1.25975	0.61261	1.80E-03	4.46E-05	2.29E-05	5.16E-05	2.10E-05	1.9371E-03	
520344.82	4258163.15	39121.76994	0.1949	0.6371	0.20123	0.68569	1.79E-03	7.98E-06	2.28E-05	8.24E-06	2.35E-05	1.8574E-03	
520568.08	4258795.69	39108.07238	0.19664	0.13709	0.18882	0.14248	1.79E-03	8.05E-06	4.90E-06	7.73E-06	4.89E-06	1.8198E-03	
520023.85	4258953.79	39054.76647	2.95164	0.34837	3.70021	0.34178	1.79E-03	1.21E-04	1.25E-05	1.52E-04	1.17E-05	2.0883E-03	
520109.3	4258352.41	39047.02963	0.33731	9.96295	0.35215	11.79272	1.79E-03	1.38E-05	3.56E-04	1.44E-05	4.05E-04	2.5808E-03	
519983.15	4258842.38	39006.83023	1.29729	0.49359	1.49569	0.48042	1.79E-03	5.31E-05	1.77E-05	6.12E-05	1.65E-05	1.9381E-03	
519979.02	4258808.3	39001.70129	1.15614	0.56839	1.33299	0.54817	1.79E-03	4.73E-05	2.03E-05	5.46E-05	1.88E-05	1.9304E-03	
520464.23	4258984.27	38989.70893	0.32122	0.13241	0.30654	0.13898	1.79E-03	1.32E-05	4.74E-06	1.26E-05	4.77E-06	1.8240E-03	
520567.38	4258399.59	38984.95814	0.16363	0.18816	0.1613	0.19783	1.79E-03	6.70E-06	6.73E-06	6.60E-06	6.79E-06	1.8154E-03	
520583.02	4258736.05	38955.92287	0.18052	0.14219	0.17908	0.14804	1.79E-03	7.39E-06	5.09E-06	7.09E-06	5.08E-06	1.8119E-03	
520395.46	4259052.77	38937.56038	0.4567	0.13596	0.43418	0.14478	1.79E-03	1.87E-05	4.86E-06	1.78E-05	4.97E-06	1.8327E-03	
520495.74	4258186.15	38921.34536	0.1634	0.27639	0.16683	0.29331	1.79E-03	6.69E-06	9.89E-06	6.83E-06	1.01E-05	1.8191E-03	
520538.76	4258244.61	38914.50589	0.15718	0.22586	0.15705	0.23788	1.79E-03	6.44E-06	8.08E-06	6.43E-06	8.17E-06	1.8144E-03	
520393.8	4258153.3	38895.63801	0.18172	0.47801	0.18617	0.50886	1.79E-03	7.44E-06	1.71E-05	7.62E-06	1.75E-05	1.8341E-03	
520437.91	4259015.18	38881.90904	0.36611	0.1327	0.34908	0.14007	1.78E-03	1.50E-05	4.75E-06	1.43E-05	4.81E-06	1.8227E-03	
520403.59	4258153.33	38877.29144	0.17956	0.45265	0.18402	0.48084	1.78E-03	7.35E-06	1.62E-05	7.53E-06	1.65E-05	1.8312E-03	
520567.71	4258374.57	38870.99606	0.16103	0.1903	0.15933	0.20032	1.78E-03	6.59E-06	6.81E-06	6.52E-06	6.88E-06	1.8101E-03	
520523.44	4258218.03	38853.0012	0.15908	0.24217	0.16058	0.25614	1.78E-03	6.51E-06	8.66E-06	6.57E-06	8.79E-06	1.8130E-03	
520413.37	4258153.36	38851.35997	0.17747	0.42881	0.18193	0.45498	1.78E-03	7.27E-06	1.53E-05	7.45E-06	1.56E-05	1.8281E-03	
520549.22	4258269.12	38842.36126	0.15628	0.21578	0.15557	0.22615	1.78E-03	6.40E-06	6.37E-06	6.37E-06	7.76E-06	1.8103E-03	
520128.97	4258322.47	38834.1716	0.30762	6.01225	0.31778	7.01049	1.78E-03	1.26E-05	2.15E-04	1.30E-05	2.41E-04	2.2630E-03	
520084.79	4259031.32	38824.14846	14.49393	0.30653	19.95932	0.28818	1.78E-03	5.93E-04	1.10E-05	8.17E-04	9.89E-06	3.2127E-03	
520571.67	4258787.1	38809.70012	0.19312	0.13741	0.18537	0.14273	1.78E-03	7.91E-06	4.91E-06	7.59E-06	4.90E-06	1.8058E-03	
520496.72	4258940.8	38787.28299	0.27515	0.13158	0.26328	0.13794	1.78E-03	1.13E-05	4.71E-06	1.08E-05	4.74E-06	1.8110E-03	
520384.01	4258153.27	38775.36665	0.18372	0.50542	0.18832	0.53908	1.78E-03	7.52E-06	1.81E-05	7.71E-06	1.85E-05	1.8308E-03	
520421.66	4259031.91	38771.46908	0.39782	0.13337	0.37884	0.14112	1.78E-03	1.63E-05	4.76E-06	1.55E-05	4.84E-06	1.8202E-03	
519981.79	4258718.53	38762.96747	0.96707	0.89782	1.12901	0.83992	1.78E-03	3.96E-05	3.21E-05	4.62E-05	2.88E-05	1.9251E-03	
520423.16	4258153.39	38752.83883	0.17533	0.40644	0.1798	0.43092	1.78E-03	7.18E-06	1.45E-05	7.36E-06	1.48E-05	1.8218E-03	
520505.92	4258926.98	38725.1791	0.26369	0.1313	0.25254	0.13767	1.78E-03	1.08E-05	4.70E-06	1.03E-05	4.73E-06	1.8072E-03	
520049.35	4258994.29	38720.80873	5.92973	0.32156	9.0923	0.31069	1.78E-03	2.43E-04	1.15E-05	3.72E-04	1.07E-05	2.4117E-03	
520513.92	4258203.94	38708.3466	0.16029	0.25334	0.16268	0.26835	1.78E-03	6.56E-06	9.06E-06	6.66E-06	9.21E-06	1.8074E-03	
520335.03	4258163.12	38691.55196	0.1967	0.67793	0.20364	0.73204	1.78E-03	8.05E-06	2.42E-05	8.34E-06	2.51E-05	1.8409E-03	
519997.95	4258903.12	38676.6867	1.75158	0.39768	2.04

520486.63	4258172.24	38092.19219	0.16348	0.2904	0.16744	0.30798	1.75E-03	6.69E-06	1.04E-05	6.86E-06	1.06E-05	1.7821E-03
519999.43	4258913.73	38084.07074	1.80954	0.38295	2.12193	0.37694	1.75E-03	7.41E-05	1.37E-05	8.69E-05	1.29E-05	1.9348E-03
520430.4	4259028.3	38076.54978	0.38052	0.13152	0.36266	0.13915	1.75E-03	1.56E-05	4.70E-06	1.48E-05	4.78E-06	1.7868E-03
520446.41	4259011.66	38067.20209	0.35106	0.1311	0.33493	0.13814	1.75E-03	1.44E-05	4.69E-06	1.37E-05	4.74E-06	1.7840E-03
520568.02	4258337.24	38037.34622	0.15697	0.19406	0.15638	0.20395	1.75E-03	6.43E-06	6.94E-06	6.40E-06	7.00E-06	1.7719E-03
520565.29	4258316.05	38001.62798	0.15572	0.19855	0.15534	0.20814	1.74E-03	6.38E-06	7.10E-06	6.36E-06	7.15E-06	1.7704E-03
520207.56	4258232.72	37984.84869	0.24283	1.90446	0.25445	2.12989	1.74E-03	9.94E-06	6.81E-05	1.04E-05	7.31E-05	1.9043E-03
520246.81	4258202.84	37970.36235	0.22538	1.30526	0.23826	1.4415	1.74E-03	9.23E-06	4.67E-05	9.76E-06	4.95E-05	1.8572E-03
520472.83	4258980.71	37944.49661	0.30849	0.13064	0.29465	0.137	1.74E-03	1.26E-05	4.67E-06	1.21E-05	4.70E-06	1.7749E-03
520412.82	4259045.58	37923.47428	0.41662	0.13229	0.39641	0.14048	1.74E-03	1.71E-05	4.73E-06	1.62E-05	4.82E-06	1.7827E-03
519987.12	4258683.15	37918.47876	0.91914	1.11524	1.08577	1.03049	1.74E-03	3.76E-05	3.99E-05	4.45E-05	3.54E-05	1.8970E-03
520522.83	4258207.76	37891.40378	0.15781	0.2435	0.15973	0.25763	1.74E-03	6.46E-06	8.71E-06	6.54E-06	8.84E-06	1.7689E-03
520532.42	4258221.88	37881.07897	0.15648	0.21597	0.15744	0.24608	1.74E-03	6.41E-06	8.33E-06	6.45E-06	8.45E-06	1.7675E-03
520582.47	4258761.33	37880.50228	0.18331	0.13828	0.17583	0.1436	1.74E-03	7.51E-06	4.95E-06	7.20E-06	4.93E-06	1.7625E-03
519975.31	4258799.36	37875.21781	1.07534	0.58491	1.23465	0.56226	1.74E-03	4.40E-05	2.09E-05	5.06E-05	1.93E-05	1.8724E-03
520354.64	4258153.18	37859.45642	0.18905	0.60164	0.19498	0.6457	1.74E-03	7.74E-06	2.15E-05	7.98E-06	2.22E-05	1.7963E-03
520148.64	4258292.53	37832.61276	0.28094	4.14101	0.28892	4.77688	1.74E-03	1.15E-05	1.48E-04	1.18E-05	1.64E-04	2.0711E-03
520547.31	4258859.81	37825.09363	0.21874	0.13116	0.21033	0.13696	1.74E-03	8.96E-06	4.69E-06	8.61E-06	4.70E-06	1.7623E-03
520564.14	4258305.55	37819.12907	0.15499	0.20053	0.15452	0.20999	1.74E-03	6.35E-06	7.17E-06	6.33E-06	7.21E-06	1.7621E-03
520565.05	4258471.07	37812.9771	0.17061	0.18233	0.16694	0.19202	1.73E-03	6.99E-06	6.52E-06	6.84E-06	6.59E-06	1.7617E-03
520534.74	4258885.03	37800.94639	0.23168	0.13022	0.22266	0.13627	1.73E-03	9.49E-06	4.66E-06	9.12E-06	4.68E-06	1.7622E-03
520002.98	4258925.19	37789.73882	1.93743	0.36951	2.28789	0.36397	1.73E-03	7.93E-05	1.32E-05	9.37E-05	1.25E-05	1.9324E-03
520570.81	4258408.58	37767.65948	0.16286	0.18512	0.16035	0.19447	1.73E-03	6.67E-06	6.62E-06	6.57E-06	6.68E-06	1.7592E-03
520495.41	4258175.99	37747.65884	0.16159	0.27806	0.16524	0.29487	1.73E-03	6.62E-06	9.95E-06	6.77E-06	1.01E-05	1.7652E-03
520040.25	4258990.54	37737.96897	4.489	0.31886	6.1445	0.31012	1.73E-03	1.84E-04	1.14E-05	2.52E-04	1.06E-05	2.1888E-03
520014.87	4258950.08	37716.69445	2.44483	0.34608	2.97336	0.34058	1.73E-03	1.00E-04	1.24E-05	1.22E-04	1.17E-05	1.9763E-03
520513.42	4258193.72	37691.30541	0.15887	0.25472	0.16159	0.26982	1.73E-03	6.50E-06	9.11E-06	6.62E-06	9.26E-06	1.7607E-03
519975.82	4258752.35	37674.07665	0.97052	0.73448	1.12468	0.6943	1.73E-03	3.97E-05	2.63E-05	4.60E-05	2.38E-05	1.8643E-03
519997.12	4258846.05	37670.77618	0.90804	1.47593	1.0903	1.33901	1.73E-03	3.72E-05	5.28E-05	4.46E-05	4.60E-05	1.9088E-03
520029.65	4258560.18	37664.87291	0.88365	3.71682	1.08974	3.02367	1.73E-03	3.62E-05	1.33E-04	4.46E-05	1.04E-04	2.0455E-03
520295.85	4258172.99	37653.6389	0.20636	0.8853	0.21659	0.96544	1.73E-03	8.45E-06	3.17E-05	8.87E-06	3.31E-05	1.8096E-03
519974.62	4258773.58	37646.11176	1.00602	0.65922	1.16047	0.62782	1.73E-03	4.12E-05	2.36E-05	4.75E-05	2.16E-05	1.8610E-03
520559.2	4258283.4	37639.78333	0.15419	0.20672	0.15354	0.21615	1.73E-03	6.31E-06	7.39E-06	6.29E-06	7.42E-06	1.7543E-03
520463.8	4258994.45	37633.35988	0.32238	0.13023	0.30785	0.13671	1.73E-03	1.32E-05	4.66E-06	1.26E-05	4.69E-06	1.7617E-03
520217.38	4258222.75	37629.37098	0.23661	1.72136	0.24862	1.91857	1.73E-03	9.69E-06	6.16E-05	1.02E-05	6.59E-05	1.8737E-03
520276.24	4258182.93	37624.43587	0.21305	1.0251	0.22469	1.12349	1.73E-03	8.72E-06	3.67E-05	9.20E-06	3.86E-05	1.8193E-03
520547.5	4258248.36	37619.84578	0.15445	0.21804	0.154	0.22916	1.73E-03	6.32E-06	7.80E-06	6.31E-06	7.87E-06	1.7542E-03
520505.17	4258937.3	37554.66005	0.26515	0.12949	0.25393	0.13572	1.72E-03	1.09E-05	4.63E-06	1.04E-05	4.66E-06	1.7535E-03
520050.28	4259004.67	37552.07346	6.13684	0.31126	9.53998	0.30062	1.72E-03	2.51E-04	1.11E-05	3.91E-04	1.03E-05	2.3861E-03
520062.25	4258475.37	37545.72844	0.59768	16.78882	0.66597	8.8469	1.72E-03	2.45E-05	6.01E-04	2.73E-05	3.04E-04	2.6785E-03
519985.47	4258877.99	37525.38714	1.40187	0.42743	1.61166	0.41878	1.72E-03	5.74E-05	1.53E-05	6.60E-05	1.44E-05	1.8746E-03
520563.12	4258295.09	37497.81958	0.15415	0.20247	0.15358	0.21181	1.72E-03	6.31E-06	7.24E-06	6.29E-06	7.27E-06	1.7474E-03
520315.46	4258163.05	37492.93392	0.1995	0.77236	0.2081	0.83851	1.72E-03	8.17E-06	2.76E-05	8.52E-06	2.88E-05	1.7932E-03
519975.82	4258824.69	37453.49251	1.13136	0.52231	1.29654	0.50577	1.72E-03	4.63E-05	1.87E-05	5.31E-05	1.74E-05	1.8537E-03
520344.85	4258153.15	37440.5907	0.19069	0.63929	0.19727	0.68788	1.72E-03	7.81E-06	2.29E-05	8.08E-06	2.36E-05	1.7801E-03
520514.42	4258923.46	37436.22402	0.25424	0.12918	0.2437	0.13539	1.72E-03	1.04E-05	4.62E-06	9.98E-06	4.65E-06	1.7472E-03
520590.3	4258718.69	37394.10021	0.17441	0.14214	0.16744	0.14807	1.72E-03	7.14E-06	5.08E-06	6.86E-06	5.08E-06	1.7397E-03
520009.85	4258808.75	37378.97896	0.90013	2.06276	1.10405	1.81954	1.71E-03	3.69E-05	7.38E-05	4.52E-05	6.25E-05	1.9332E-03
520413.41	4258143.36	37346.16876	0.17429	0.4306	0.17855	0.45649	1.71E-03	7.14E-06	1.54E-05	7.31E-06	1.57E-05	1.7589E-03
520393.83	4258143.3	37343.84389	0.17829	0.47981	0.18267	0.51053	1.71E-03	7.30E-06	1.72E-05	7.48E-06	1.75E-05	1.7627E-03
520403.62	4258143.33	37335.16456	0.17623	0.45448	0.18056	0.48241	1.71E-03	7.22E-06	1.63E-05	7.39E-06	1.66E-05	1.7603E-03
520421.51	4259041.98	37332.24407	0.39834	0.13062	0.37933	0.13851	1.71E-03	1.63E-05	4.67E-06	1.55E-05	4.76E-06	1.7540E-03
520439.14	4259024.68	37331.61377	0.36423	0.12993	0.34743	0.13723	1.71E-03	1.49E-05	4.65E-06	1.42E-05	4.71E-06	1.7512E-03
520586.06	4258752.74	37318.74602	0.1801	0.18824	0.17271	0.14367	1.71E-03	7.37E-06	4.94E-06	7.07E-06	4.93E-06	1.7364E-03
520504.19	4258179.75	37296.05973	0.19958	0.26658	0.16288	0.28262	1.71E-03	6.53E-06	9.54E-06	6.67E-06	9.70E-06	1.7435E-03
520256.63	4258192.87	37280.95946	0.21909	1.20189	0.23164	1.32307	1.71E-03	8.97E-06	4.30E-05	9.48E-06	4.54E-05	1.8172E-03
520138.82	4258302.5	37258.42225	0.287	4.9384	0.29512	5.73274	1.71E-03	1.18E-05	1.77E-04	1.21E-05	1.97E-04	2.1066E-03
520558.12	4258272.93	37248.62788	0.15341	0.20823	0.15264	0.21788	1.71E-03	6.28E-06	7.45E-06	6.25E-06	7.48E-06	1.7364E-03
519987.32	4258888.75	37245.49185	1.45789	0.41106	1.67806	0.40342	1.71E-03	5.97E-05	1.47E-05	6.87E-05	1.38E-05	1.8657E-03
520423.19	4258143.39	37244.51713	0.17222	0.40836	0.17652	0.43237	1.71E-03	7.05E-06	1.46E-05	7.23E-06	1.48E-05	1.7524E-03
520384.04	4258143.27	37236.77884	0.18022	0.50711	0.18479	0.54085	1.71E-03	7.38E-06	1.81E-05	7.57E-06	1.86E-05	1.7600E-03
520099.48	4258362.38	37230.91037	0.34229	14.18533	0.36026	15.79597	1.71E-03	1.40E-05	5.07E-04	1.48E-05	5.42E-04	2.7865E-03
520454.9	4259008.14	37216.5438	0.33685	0.12954	0.3216	0.13627	1.71E-03	1.38E-05	4.63E-06	1.32E-05	4.68E-06	1.7437E-03
520026.07	4258974.69	37204.43612	3.12707	0.32583	3.94511	0.31942	1.71E-03	1.28E-04	1.17E-05	1.62E-04	1.10E-05	2.0191E-03
520523.87	4258909.54	37202.07261	0.24371	0.12883	0.23386	0.13497	1.71E-03	9.98E-06	4.61E-06	9.58E-06	4.63E-06	1.7356E-03
519979.79	4258858.39	37177.70756	1.25695	0.45699	1.44149	0.44599	1.71E-03	5.15E-05	1.63E-05	5.90E-05	1.53E-05	1.8478E-03
520570.76	4258434.32	37160.63871	0.16504	0.18264	0.16217	0.19188	1.70E-03	6.76E-06	6.53E-06	6.64E-06	6.59E-06	1.7314E-03
520227.2	4258212.78	37152.37825	0.23035	1.56504	0.24268	1.73711	1.70E-03	9.43E-06	5.60E-05	9.94E-06	5.96E-05	1.8395E-03
520591.37	4258692.17	37151.56989	0.17143	0.14589	0.16463	0.1518	1.70E-03	7.02E-06	5.22E-06	6.74E-06	5.21E-06	1.7286E-03
520568.64	4258454.63	37129.91221	0.16763	0.18181	0.16438	0.19125	1.70E-03	6.86E-06	6.50E-06	6.73E-06	6.57E-06	1.7301E-03
520004.49	4258935.8	37107.55027	2.00189	0.35649	2.37177	0.35133	1.70E-03	8.20E-05	1.28E-05	9.71E-05	1.21E-05	1.9063E-03
520560.71	4258837.22	37072.11137	0.20604	0.13118	0.1981	0.13667	1.70E-03	8.44E-06	4.69E-06	8.11E-06	4.69E-06	1.7267E-03
520374.25	4258143.24	37072.04989	0.18211	0.53643	0.18697	0.57369	1.70E-03	7.46E-06	1.92E-05	7.66E-06	1.97E-05	1.7548E-03
520432.98	4258143.42	37066.70948	0.1701	0.38749	0.17446	0.40992	1.70E-03	6.96E-06	1.39E-05	7.14E-06	1.41E-05	1.7426E-03
520468.93	4258154.65	37066.04003	0.16436	0.31993	0.1689	0.3384	1.70E-03	6.73E-06	1.14E-05	6.92E-06	1.16E-05	1.7372E-03
520460.21	4258150.92	37058.83867	0.16567	0.33501	0.17026	0.35422	1.70E-03	6.78E-06	1.20E-05	6.97E-06	1.22E-05	1.7381E-03
520564.28	4258828.71	37056.2589	0.20257	0.13181	0.19479	0.13721	1.70E-03	8.29E-06	4.71E-06	7.98E-06	4.71E-06	1.7258E-03
520083.42	4259043.59	37018.32714	14.37839	0.2941	21.73969	0.27703	1.70E-03	5.89E-04	1.05E-05	8.90E-04	9.51E-06	3.1972E-03
520490.69	4258963.31	37013.9385	0.28375	0.129	0.27154	0.13514	1.70E-03	1.16E-05	4.61E-06	1.11E-05	4.64E-06	1.7301E-03
520335.07	4258153.12	37011.50578	0.19232	0.68021	0.19957	0.73427	1.70E-03	7.87E-06	2.43E-05	8.17E-06	2.52E-05	1.7636E-03
520500.12	4258949.4	37009.24783	0.27162	0.12874	0.26004	0.13489	1.70E-03	1.11E-05	4.60E-06	1.06E-05	4.63E-06	1.7289E-03
520567.84	4258820.2	37004.67434	0.19915	0.13231	0.19148	0.13764	1.70E-03	8.15E-06	4.73E-06	7.84E-06	4.73E-06	1.7232E-03
520477.66	4258158.38	37003.09354	0.16294	0.3057	0.16732	0.33234	1.70E-03	6.67E-06	1.09E-05	6.85E-06	1.11E-05	1.7332E-03
520531.73	4258211.57	36966.38478	0.15526	0.23434	0.15672	0.24756	1.70E-03	6.36E-06	8.38E-06	6.42E-06	8.50E-06	1.7256E-03
520522.26	4258197.5	36960.95306	0.15652	0.24479	0.1588	0.25905	1.70E-03	6.41E-06	8.76E-06	6.50E-06	8.89E-06	1.7263E-03
520546.12	4258870.31	36960.54334	0.22056	0.12935	0.21206	0.13516	1.70E-03	9.03E-06	4.63E-06	8.68E-06	4.64E-06	1.7227E-03
520053.78	4259013.71	36960.15181	6.95352	0.3046	11.70104	0.29347	1.70E-03	2.85E-04	1.09E-05	4.79E-04	1.01E-05	2.4804E-03
520451.49	4258147.18	36946.50794	0.16681	0.35106	0.17138	0.37105	1.70E-03	6.83E-06	1.26E-05	7.02E-06	1.27E-05	1.7342E-03
520546.75	4258238.02	36931.83013	0.15347	0.21912	0.15333	0.23059	1.69E-03	6.28E-06	7.84E-06	6.28E-06	7.92E-06	1.7227E-03
520571.4	4258811.69	36914.58753	0.19578	0.11276	0.1882	0.13803	1.69E-03	8.02E-06	4.75E-06	7.71E-06	4.74E-06	1.7188E-03
520481.44	4258977.14	36905.35144	0.29641	0.12898	0.28355	0.13514	1.69E-03	1.21E-05	4.61E-06	1.16E-05	4.64E-06	1.7261E-03
520486.38	4258162.11	36901.42144	0.16147	0.29209	0.16554	0.30946	1.69E-03	6.61E-06	1.04E-05	6.78E-06	1.06E-05	1.7274E-03
520016.08	4258960.58	36896.12842	2.5177	0.33449	3.07033	0.32915	1.69E-03	1.03E-04	1.26E-05	1.26E-04	1.13E-05	1.9448E-03
519989.02	4258899.44	36869.66475	1.51106	0.39573	1.74263	0.38891	1.69E-03	6.19E-05	1.42E-05	7.14E-05	1.34E-05	1.8522E-03
520533.54	4258805.53	36853.69395	0.2335	0.12854	0.22438	0.13455	1.69E-03	9.56E-06	4.60E-06	9.19E-06	4.62E-06	1.7187E-03
520541.4	4258225.72	36830.06956	0.15387	0.22428	0.1543	0.23656	1.69E-03	6.30E-06	8.02E-06	6.32E-06	8.12E-06	1.7185E-03
520286.06	4258172.96	36798.92487	0.20699	0.95308	0.21801	1.04168	1.69E-03	8.48E-06	3.41E-05	8.93E-06	3.58E-05	1.7755E-03
520093.34	4259053.57	36798.13068	13.89992	0.28916	12.78968	0.27086	1.69E-03	5.69E-04	1.03E-05	5.24E-04	9.30E-06	2.8007E-03
520557.14	4258262.49	36794.70173	0.1526	0.20949	0.1518	0.21945	1.69E-03	6.25E-06	7.49E-06	6.22E-06	7.53E-06	1.7156E-03
520574.96	4258803.19	36783.59665	0.19245	0.13322	0.18496	0.1384	1.69E-03	7.88E-06	4.77E-06	7.57E-06	4.75E-06	1.7125E-03
520442.77	4258143.45	36768.9607	0.16786	0.36803	0.17231	0.38897	1.69E-03	6.87E-06	1.32E-05	7.06E-06	1.34E-05	1.7273E-03
520588.66	4258744.15	36763.15981	0.17705	0.1382	0.1698	0.14375	1.69E-03	7.25E-06	4.94E-06	6.95E-06	4.94E-06	1.7107E-03
520305.67	4258163.02	36733.65246	0.20041	0.82749	0.20998	0.89998	1.69E-03	8.21E-06	2.96E-05	8.60E-06	3.09E-05	1.7626E-03
520512.96	4258183.51	36719.95302	0.15743	0.25601	0.16039	0.2712	1.68E-03	6.45E-06	9.16E-06	6.57E-06	9.31E-06	1.7161E-03
520031.14	4258986.78	36715.96918	3.53573	0.31636	4.55676	0.30938	1.68E-03	1.45E-04	1.13E-05	1.87E-04	1.06E-05	2.0377E-03
520430.19	4259038.39	36687.67501	0.38115	0.12906	0.36335	0.13665	1.68E-03	1.56E-05	4.62E-06	1.49E-05	4.69E-06	1.7230E-03
520364.46	4258143.21	36666.25703	0.18357	0.56881	0.18909	0.60904	1.68E-03	7.52E-06	2.03E-05	7.74E-06	2.09E-05	1.7387E-03
520472.35	4258990.91	36663.35954	0.30966	0.12853	0.29592	0.13479	1.68E-03	1.27E-05	4.60E-06	1.21E-05	4.63E-06	1.7161E-03
520041.24	4259000.94	36662.78451	4.63228	0.30871	6.37893	0.30011	1.68E-03	1.90E-04	1.10E-05	2.61E-04	1.03E-05	2.1542E-03
520237.02	4258202.81	36654.70058	0.22432	1.4291	0.23672	1.58129	1.68E-03	9.18E-06	5.11E-05	9.69E-06	5.43E-05	1.8059E-03
520495.1	4258165.85	36627.48183	0.15976	0.2796	0.16355	0.29628	1.68E-03	6.54E-06	1.00E-05	6.70E-06	1.02E-05	1.7138E-03
519987.12	4258673.87	36621.50038	0.88026	1.16534	1.03724	1.07484	1.68E-03	3.60E-05	4.17E-05	4.25E-05	3.69E-05	1.8372E-03
519971.61	4258790.42	36619.50343	0.99867	0.60154	1.14354	0.57611	1.68E-03	4.09E-05	2.15E-05	4.68E-05	1.98E-05	1.8090E-03
520578.53	4258794.68	36607.76583	0.18918	0.13367	0.18179	0.13878	1.68E-03	7.75E-06	4.78E-06	7.44E-06	4.76E-06	1.7042E-03
520109.33	4258342.41	36590.57424	0.31945	9.98845	0.33266	11.84693	1.68E-03	1.31E-05	3.57E-04	1.36E-05	4.07E-04	2.4694E-03
519976.16	4258849.63	36589.43558	1.17784	0.46952	1.34702	0.45727	1.68E-03	4.82E-05	1.68E-05	5.52E-05	1.57E-05	1.8145E-03
520266.45	4258182.9	36580.33458	0.21304	1.11042	0.22515	1.21897	1.68E-03	8.72E-06	3.97E-05	9.22E-06	4.18E-05	1.7777E-03
520447.88	4259021.06	36542.18831	0.3489	0.13835	0.33302	0.13532	1.68E-03	1.43E-05	4.59E-06	1.36E-05	4.65E-06	1.7136E-03
520129.01	4258317.47	36520.58074	0.29287	0.62615	0.3016	0.70587	1.68E-03	1.20E-05	2.16E-04	1.23E-05	2.42E-04	2.1575E-03
520568.33	4258479.69	36517.38266	0.16948	0.17925	0.16543	0.18876	1.68E-03	6.94E-06	6.41E-06	6.77E-06	6.48E-06	1.7020E-03
519972.15	4258815.84	36512.44585	1.05607	0.53702	1.20671	0.51844	1.68E-03	4.32E-05	1.92E-05	4.94E-05	1.78E-05	1.8048E-03
520593.93	4258710	36501.77592	0.17151	0.142	0.16471	0.14788	1.67E-03	7.02E-06	5.08E-06	6.74E-06	5.08E-06	1.6986E-03
520325.28	4258153.08	36469.21349	0.19368	0.72527	0.20172	0.78507	1.67E-03	7.93E-06	2.59E-05	8.26E-06	2.70E-05	1.7422E-03
519990.57	4258910.07	36410.27648	1.56148	0.38113	1.80398	0.37502	1.67E-03	6.39E-05	1.36E-05	7.39E-05	1.29E-05	1.8347E-03
520582.09	4258786.17	36386.11647	0.18597	0.13409	0.17868	0.13913	1.67E-03	7.61E-06	4.80E-06	7.32E-06	4.78E-06	1.6938E-03
520005.88	4258946.37	36385.09125	2.06374	0.3442	2.45218	0.33934	1.67E-03	8.45E-05	1.23E-05	1.00E-04	1.16E-05	1.8781E-03
520049.44	4258511.61	36364.17505	0.73225	7.76912	0.83922	5.59261	1.67E-03	3.00E-05	2.78E-04	3.44E-05	1.92E-04	2.2026E-03
520543.46	4258881.42	36360.81749	0.2236	0.12816	0.2151	0.13398	1.67E-03	9.16E-06	4.58E-06	8.81E-06	4.60E-06	1.6953E-03
520513.62	4258933.8	36349.13744	0.25566	0.12742	0.24504	0.1335	1.67E-03	1.05E-05	4.56E-06	1.00E-05	4.58E-06	1.6973E-03
520178.14	4258252.63	36339.57069	0.25137	2.69428	0.25967	3.04777	1.67E-03	1.03E-05	9.64E-05	1.06E-05	1.05E-04	1.8891E-03
520487.96	4258242.66	36335.29894	0.24562	2.38407	0.25465	2.68541	1.67E-03	1.01E-05	8.53E-05	1.04E-05	9.22E-05	1.8649E-03
520463.4	4259004.63	36334.20089	0.32342	0.128	0.30902	0.13444	1.67E-03	1.32E-05	4.58E-06	1.27E-05	4.62E-06	1.7020E-03
520555.76	4258856.31	36317.91984	0.21148	0.12912	0.20348	0.13468	1.67E-03	8.66E-06	4.62E-06	8.33E-06	4.62E-06	1.6924E-03
520556.25	4258252.1	36273.72237	0.15173	0.21061	0.15104	0.2209	1.66E-03	6.21E-06	7.53E-06	6.18E-06	7.58E-06	1.6917E-03
520354.67	4258143.18	36263.23952	0.18507	0.60358	0.19125	0.64755	1.66E-03	7.58E-06	2.16E-05	7.83E-06	2.22E-05	1.7229E-03
520503.82	4258169.58	36239.96143	0.1579	0.26805	0.16139	0.28401	1.66E-03	6.47E-06	9.59E-06	6.61E-06	9.75E-06	1.6950E-03
520168.32	4258262.6	36237.90039	0.25713	3.07377	0.26475	3.49526	1.66E-03	1.05E-05	1.10E-04	1.08E-05	1.20E-04	1.9138E-03
520593.26	4258735.56	36235.28018	0.17418	0.13829	0.16713	0.14392	1.66E-03	7.13E-06	4.95E-06	6.84E-06	4.94E-06	1.6863E-03
519975.25	4258726.86	36224.10129	0.89293	0.82688	1.03096	0.77652	1.66E-03	3.66E-05	2.96E-05	4.22E-05	2.67E-05	1.7969E-03
520197.78	4258232.69	36217.72564	0.23987	0.12702	0.24961	0.13616	1.66E-03	9.82E-06	7.61E-05	1.02E-05	8.19E-05	1.8396E-03
519978.13	4258709.69	36209.52903	0.88018	0.91397	1.02157	0.85402	1.66E-03	3.60E-05	3.27E-05	4.18E-05	2.93E-05	1.8011E-03
520522.93	4258919.94	36180.3681	0.24525	0.12712	0.23532	0.13316	1.66E-03	1.00E-05	4.55E-06	9.63E-06	4.57E-06	1.6887E-03
519993.84	4258921.41	36178.52297	1.65809	0.36773	1.92496	0.36223	1.66E-03	6.79E-05	1.32E-05	7.88E-05	1.24E-05	1.8321E-03
520531.1	4258201.28	36158.26239	0.15414	0.23546	0.15594	0.24894	1.66E-03	6.31E-06	8.42E-06	6.38E-06	8.55E-06	1.6885E-03
520585.65	4258777.66	36110.91993	0.18283	0.13444	0.17562	0.13945	1.66E-03	7.49E-06	4.81E-06	7.19E-06	4.79E-06	1.6810E-03
520019.73	4258579.62	36088.65605	0.87023	2.76919	1.08263	2.34707	1.66E-03	3.56E-05	9.91E-05	4.43E-05	8.06E-05	1.9153E-03
520246.84	4258192.84	36080.60981	0.21835	1.3108	0.23071	1.44547	1.66E-03	8.94E-06	4.69E-05	9.45E-06	4.96E-05	1.7702E-03
520017.21	4258971.04	36078.09097	2.58713	0.32358	3.16187	0.31836	1.66E-03	1.06E-04	1.16E-05

520217.41	4258212.75	35661.03782	0.22834	1.72856	0.23934	1.92314	1.64E-03	9.35E-06	6.18E-05	9.80E-06	6.60E-05	1.7831E-03
520022.04	4258983.02	35660.93825	2.8712	0.31413	3.56282	0.30853	1.64E-03	1.18E-04	1.12E-05	1.46E-04	1.06E-05	1.9213E-03
520451.78	4258137.29	35656.2261	0.16416	0.35213	0.16855	0.37171	1.64E-03	6.72E-06	1.26E-05	6.90E-06	1.28E-05	1.6748E-03
520007.17	4258956.89	35655.82157	2.12382	0.33263	2.53022	0.328	1.64E-03	8.70E-05	1.19E-05	1.04E-04	1.13E-05	1.8495E-03
520148.68	4258282.53	35650.21635	0.26854	4.15199	0.27531	4.7883	1.64E-03	1.10E-05	1.49E-04	1.13E-05	1.64E-04	1.9707E-03
520567.01	4258276.73	35628.2362	0.15056	0.20101	0.14981	0.21004	1.63E-03	6.16E-06	7.19E-06	6.13E-06	7.21E-06	1.6613E-03
519995.42	4258932.06	35614.21961	1.71291	0.35478	1.99369	0.34977	1.63E-03	7.01E-05	1.27E-05	8.16E-05	1.20E-05	1.8104E-03
520043.88	4259013.73	35588.45923	5.02612	0.29792	7.08623	0.28918	1.63E-03	2.06E-04	1.07E-05	2.90E-04	9.93E-06	2.1492E-03
520119.19	4258322.44	35581.80445	0.29834	7.59149	0.30829	8.959	1.63E-03	1.22E-05	2.72E-04	1.26E-05	3.08E-04	2.2364E-03
519999.93	4258628.19	35572.95385	0.85311	1.64747	1.02443	1.48419	1.63E-03	3.49E-05	5.89E-05	4.19E-05	5.10E-05	1.8188E-03
520554.5	4258866.84	35552.52068	0.21329	0.12741	0.20524	0.13299	1.63E-03	8.73E-06	4.56E-06	8.40E-06	4.57E-06	1.6573E-03
520597.57	4258701.32	35542.86902	0.16868	0.14192	0.16205	0.14768	1.63E-03	6.91E-06	5.08E-06	6.63E-06	5.07E-06	1.6543E-03
520596.85	4258726.96	35537.25388	0.1713	0.13824	0.16446	0.14392	1.63E-03	7.01E-06	4.94E-06	6.73E-06	4.94E-06	1.6540E-03
520542.18	4258891.95	35516.12541	0.22539	0.12657	0.21686	0.13236	1.63E-03	9.23E-06	4.53E-06	8.88E-06	4.54E-06	1.6566E-03
520374.28	4258133.24	35501.76525	0.17836	0.53839	0.18349	0.57518	1.63E-03	7.30E-06	1.93E-05	7.51E-06	1.97E-05	1.6826E-03
520093.77	4259064.4	35489.46738	13.63833	0.27993	12.53511	0.26236	1.63E-03	5.58E-04	1.00E-05	5.13E-04	9.01E-06	2.7189E-03
520496.67	4258156.51	35486.91654	0.15753	0.27845	0.16136	0.29484	1.63E-03	6.45E-06	9.96E-06	6.61E-06	1.01E-05	1.6612E-03
519968.48	4258807	35486.2011	0.98676	0.55136	1.1211	0.53081	1.63E-03	4.04E-05	1.97E-05	4.59E-05	1.82E-05	1.7523E-03
520256.66	4258182.87	35479.25287	0.21257	1.20675	0.22473	1.32675	1.63E-03	8.70E-06	4.32E-05	9.20E-06	4.55E-05	1.7343E-03
520442.8	4258133.45	35471.57332	0.16515	0.36955	0.16938	0.39018	1.63E-03	6.76E-06	1.32E-05	6.94E-06	1.34E-05	1.6677E-03
520471.9	4259001.11	35433.15533	0.31073	0.12643	0.29712	0.13261	1.63E-03	1.27E-05	4.52E-06	1.22E-05	4.55E-06	1.6596E-03
520335.1	4258143.12	35426.79034	0.18805	0.6824	0.19561	0.73629	1.63E-03	7.70E-06	2.44E-05	8.01E-06	2.53E-05	1.6907E-03
520592.77	4258760.64	35377.72191	0.17675	0.13471	0.16968	0.13982	1.62E-03	7.24E-06	4.82E-06	6.95E-06	4.80E-06	1.6460E-03
520039.52	4258531.05	35349.10545	0.7784	5.2708	0.91542	4.08555	1.62E-03	3.19E-05	1.89E-04	3.75E-05	1.40E-04	2.0199E-03
519978.31	4258885.03	35307.23942	1.26855	0.40862	1.44431	0.40061	1.62E-03	5.19E-05	1.46E-05	5.91E-05	1.38E-05	1.7593E-03
520530.52	4258191.02	35288.73782	0.15287	0.23673	0.15507	0.25026	1.62E-03	6.26E-06	8.47E-06	6.35E-06	8.59E-06	1.6488E-03
520227.23	4258202.78	35275.71592	0.22268	1.57116	0.23408	1.74173	1.62E-03	9.12E-06	5.62E-05	9.58E-06	5.98E-05	1.7531E-03
520565.95	4258266.27	35273.31495	0.1498	0.20243	0.14898	0.21165	1.62E-03	6.13E-06	7.24E-06	6.10E-06	7.27E-06	1.6450E-03
520447.56	4259031.2	35261.50799	0.3497	0.12602	0.33396	0.13298	1.62E-03	1.43E-05	4.51E-06	1.37E-05	4.57E-06	1.6548E-03
520539.94	4258205.07	35245.61877	0.15166	0.22681	0.15303	0.23942	1.62E-03	6.21E-06	8.11E-06	6.27E-06	8.22E-06	1.6458E-03
519967.9	4258781.48	35226.05062	0.9253	0.61784	1.05795	0.5894	1.62E-03	3.79E-05	2.21E-05	4.33E-05	2.02E-05	1.7396E-03
520522.07	4258930.3	35174.58071	0.24664	0.12543	0.23664	0.13136	1.61E-03	1.01E-05	4.49E-06	9.69E-06	4.51E-06	1.6425E-03
520364.49	4258133.21	35170.36814	0.17986	0.57049	0.18558	0.61067	1.61E-03	7.36E-06	2.04E-05	7.60E-06	2.10E-05	1.6699E-03
520521.26	4258177.04	35168.43631	0.15384	0.24725	0.15666	0.2617	1.61E-03	6.30E-06	8.84E-06	6.41E-06	8.98E-06	1.6440E-03
519987.12	4258664.6	35154.70199	0.83913	1.21556	0.98833	1.11838	1.61E-03	3.44E-05	4.35E-05	4.05E-05	3.84E-05	1.7695E-03
520505.64	4258160.35	35125.64432	0.15573	0.26663	0.1593	0.28231	1.61E-03	6.38E-06	9.54E-06	6.52E-06	9.69E-06	1.6436E-03
519968.89	4258832.1	35119.68409	1.03361	0.4954	1.1763	0.48	1.61E-03	4.23E-05	1.77E-05	4.82E-05	1.65E-05	1.7359E-03
520286.09	4258162.96	35111.56714	0.20152	0.95668	0.21259	1.04457	1.61E-03	8.25E-06	3.42E-05	8.70E-06	3.59E-05	1.6979E-03
520305.7	4258153.02	35109.72263	0.19553	0.83037	0.20531	0.90253	1.61E-03	8.01E-06	2.97E-05	8.41E-06	3.10E-05	1.6879E-03
520138.86	4258292.5	35106.08594	0.27398	4.95029	0.28093	5.74981	1.61E-03	1.12E-05	1.77E-04	1.15E-05	1.97E-04	2.0078E-03
519980.09	4258895.75	35066.73686	1.31575	0.39356	1.49988	0.38645	1.61E-03	5.39E-05	1.41E-05	6.14E-05	1.33E-05	1.7514E-03
520549.55	4258219.19	35030.8955	0.15026	0.21735	0.15067	0.22906	1.61E-03	6.15E-06	7.77E-06	6.17E-06	7.86E-06	1.6351E-03
519996.89	4258942.66	35027.68928	1.76652	0.34258	2.06134	0.33797	1.61E-03	7.23E-05	1.23E-05	8.44E-05	1.16E-05	1.7876E-03
520099.51	4258352.38	34964.48815	0.32378	14.21948	0.33988	15.96441	1.60E-03	1.33E-05	5.09E-04	1.39E-05	5.48E-04	2.6880E-03
520552.17	4258877.81	34964.33822	0.21592	0.12614	0.20788	0.13174	1.60E-03	8.84E-06	4.51E-06	8.51E-06	4.52E-06	1.6305E-03
520531.44	4258916.42	34960.78408	0.23672	0.12515	0.22738	0.13102	1.60E-03	9.69E-06	4.48E-06	9.31E-06	4.50E-06	1.6319E-03
519972.59	4258865.13	34939.73014	1.14218	0.43619	1.29637	0.42605	1.60E-03	4.68E-05	1.56E-05	5.31E-05	1.46E-05	1.7330E-03
520008.36	4258967.38	34928.5309	2.18133	0.33173	2.60394	0.31729	1.60E-03	8.93E-05	1.15E-05	1.07E-04	1.09E-05	1.8208E-03
520596.34	4258752.14	34910.48656	0.17382	0.1347	0.16686	0.13992	1.60E-03	7.12E-06	4.82E-06	6.83E-06	4.80E-06	1.6252E-03
520325.31	4258143.08	34893.68678	0.18925	0.72766	0.1976	0.78717	1.60E-03	7.75E-06	2.60E-05	8.09E-06	2.70E-05	1.6697E-03
520567.74	4258844.38	34890.65845	0.20123	0.12752	0.19366	0.1328	1.60E-03	8.24E-06	4.56E-06	7.93E-06	4.56E-06	1.6360E-03
520571.27	4258835.94	34880.5251	0.19795	0.12807	0.19051	0.13328	1.60E-03	8.10E-06	4.58E-06	7.80E-06	4.58E-06	1.6253E-03
520564.99	4258255.84	34864.43396	0.149	0.20364	0.1482	0.21312	1.60E-03	6.10E-06	7.28E-06	6.07E-06	7.32E-06	1.6263E-03
520465.36	4259013.82	34864.05565	0.32079	0.12533	0.3067	0.13167	1.60E-03	1.31E-05	4.48E-06	1.26E-05	4.52E-06	1.6342E-03
520266.48	4258172.9	34858.05149	0.20697	1.11473	0.21882	1.2223	1.60E-03	8.47E-06	3.99E-05	8.96E-06	4.20E-05	1.6985E-03
520574.8	4258827.51	34839.02641	0.1947	0.12866	0.18741	0.13379	1.60E-03	7.97E-06	4.60E-06	7.67E-06	4.59E-06	1.6232E-03
520237.05	4258192.81	34826.56462	0.2171	1.43488	0.22874	1.58516	1.60E-03	8.89E-06	5.13E-05	9.37E-06	5.44E-05	1.7218E-03
520354.71	4258134.18	34820.99095	0.18134	0.60518	0.18771	0.64941	1.60E-03	7.42E-06	2.16E-05	7.69E-06	2.23E-05	1.6566E-03
520498.65	4258970.02	34786.56512	0.27435	0.12516	0.26277	0.13103	1.60E-03	1.12E-05	4.48E-06	1.08E-05	4.50E-06	1.6269E-03
520023.17	4258993.48	34778.22622	2.9549	0.30414	3.67183	0.29863	1.60E-03	1.21E-04	1.09E-05	1.50E-04	1.03E-05	1.8880E-03
520508.02	4258956.13	34777.05519	0.26288	0.12493	0.2519	0.13081	1.60E-03	1.08E-05	4.47E-06	1.03E-05	4.49E-06	1.6255E-03
520578.33	4258819.08	34763.4806	0.19149	0.12904	0.18426	0.13412	1.59E-03	7.84E-06	4.62E-06	7.54E-06	4.60E-06	1.6195E-03
519981.72	4258906.42	34735.82745	1.36061	0.37925	1.55312	0.37291	1.59E-03	5.57E-05	1.36E-05	6.36E-05	1.28E-05	1.7393E-03
520054.23	4259033.71	34715.59983	7.13321	0.28614	12.12279	0.27579	1.59E-03	2.92E-04	1.02E-05	4.96E-04	9.47E-06	2.4008E-03
520489.45	4258983.84	34708.16886	0.28627	0.12521	0.27415	0.13109	1.59E-03	1.17E-05	4.48E-06	1.12E-05	4.50E-06	1.6243E-03
520600.45	4258718.37	34686.27353	0.16841	0.13798	0.16173	0.14368	1.59E-03	6.90E-06	4.94E-06	6.62E-06	4.93E-06	1.6147E-03
520000.81	4258599.06	34680.56553	0.83797	2.11345	1.02482	1.87578	1.59E-03	3.43E-05	7.62E-05	4.20E-05	6.44E-05	1.8080E-03
520469.58	4258134.9	34671.47207	0.15959	0.32175	0.16391	0.33952	1.59E-03	6.53E-06	1.15E-05	6.71E-06	1.17E-05	1.6271E-03
520514.62	4258164.19	34671.36908	0.15382	0.25555	0.15707	0.27053	1.59E-03	6.30E-06	9.14E-06	6.43E-06	9.29E-06	1.6218E-03
520478.5	4258138.72	34642.18421	0.15834	0.3072	0.16266	0.32429	1.59E-03	6.48E-06	1.10E-05	6.66E-06	1.11E-05	1.6244E-03
520541.01	4258902.44	34640.47266	0.22708	0.12491	0.21841	0.13066	1.59E-03	9.30E-06	4.47E-06	8.94E-06	4.49E-06	1.6164E-03
520487.41	4258142.53	34606.63606	0.1571	0.29326	0.16122	0.30995	1.59E-03	6.43E-06	1.05E-05	6.60E-06	1.06E-05	1.6218E-03
520581.86	4258810.64	34592.64048	0.18826	0.12942	0.1811	0.13443	1.59E-03	7.71E-06	4.63E-06	7.41E-06	4.62E-06	1.6114E-03
519984.69	4258917.64	34589.21604	1.43502	0.36598	1.64352	0.36034	1.59E-03	5.88E-05	1.31E-05	6.73E-05	1.24E-05	1.7384E-03
520460.66	4258131.08	34582.06525	0.16064	0.33727	0.16492	0.3557	1.59E-03	6.58E-06	1.21E-05	6.75E-06	1.22E-05	1.6242E-03
520012.93	4258979.26	34573.43177	2.38653	0.31215	2.88087	0.30755	1.59E-03	9.77E-05	1.12E-05	1.18E-04	1.06E-05	1.8236E-03
520423.26	4258123.39	34552.6581	0.16634	0.41128	0.17026	0.43487	1.59E-03	6.81E-06	1.47E-05	6.97E-06	1.49E-05	1.6286E-03
520413.47	4258123.36	34549.10452	0.16807	0.43365	0.17212	0.45902	1.59E-03	6.88E-06	1.55E-05	7.05E-06	1.58E-05	1.6302E-03
520601.2	4258692.64	34531.60767	0.16595	0.14184	0.15943	0.14744	1.58E-03	6.79E-06	5.07E-06	6.53E-06	5.06E-06	1.6077E-03
520480.39	4258997.59	34529.93402	0.29872	0.12491	0.28596	0.13088	1.58E-03	1.22E-05	4.47E-06	1.17E-05	4.49E-06	1.6171E-03
520575.13	4258471.66	34515.14608	0.16556	0.17597	0.16169	0.18515	1.58E-03	6.78E-06	6.29E-06	6.62E-06	6.36E-06	1.6095E-03
520529.98	4258180.78	34513.32992	0.15169	0.23779	0.15413	0.2515	1.58E-03	6.21E-06	8.51E-06	6.31E-06	8.63E-06	1.6131E-03
520403.68	4258123.33	34508.28209	0.16981	0.45747	0.17405	0.48505	1.58E-03	6.95E-06	1.64E-05	7.13E-06	1.67E-05	1.6303E-03
520083.87	4259064.41	34497.15997	14.75429	0.27595	20.90457	0.26026	1.58E-03	6.04E-04	9.87E-06	8.56E-04	8.93E-06	3.0615E-03
520456.24	4259027.6	34494.96511	0.33532	0.12455	0.32047	0.13119	1.58E-03	1.37E-05	4.45E-06	1.31E-05	4.50E-06	1.6184E-03
520043.9	3449342.73	34493.42178	5.04856	0.28863	7.10193	0.28002	1.58E-03	2.07E-04	1.03E-05	2.91E-04	9.62E-06	2.0999E-03
520539.3	4258194.78	34492.67649	0.15056	0.22791	0.15231	0.24069	1.58E-03	6.16E-06	8.15E-06	6.24E-06	8.26E-06	1.6113E-03
520433.05	4258123.42	34455.35009	0.16449	0.39037	0.16839	0.41232	1.58E-03	6.73E-06	1.40E-05	6.89E-06	1.42E-05	1.6225E-03
520496.33	4258146.35	34441.52645	0.15565	0.28005	0.15955	0.29623	1.58E-03	6.37E-06	1.00E-05	6.53E-06	1.02E-05	1.6132E-03
520451.75	4258127.27	34437.32017	0.1616	0.35364	0.16577	0.37291	1.58E-03	6.62E-06	1.26E-05	6.79E-06	1.28E-05	1.6188E-03
520187.99	4258232.66	34415.9991	0.23632	2.3914	0.2441	2.69216	1.58E-03	9.68E-06	8.55E-05	9.99E-06	9.24E-05	1.7766E-03
520564.11	4258245.45	34406.75445	0.14819	0.20469	0.1475	0.21449	1.58E-03	6.07E-06	7.32E-06	6.04E-06	7.36E-06	1.6053E-03
520393.89	4258123.3	34401.60782	0.17149	0.483	0.17602	0.5131	1.58E-03	7.02E-06	1.73E-05	7.21E-06	1.76E-05	1.6274E-03
520344.92	4258133.15	34397.77248	0.18268	0.64306	0.18978	0.69169	1.58E-03	7.48E-06	2.30E-05	7.77E-06	2.37E-05	1.6401E-03
520178.17	4258242.63	34397.09198	0.24155	2.70194	0.2486	3.05586	1.58E-03	9.89E-06	9.66E-05	1.02E-05	1.05E-04	1.7997E-03
519998.25	4258953.21	34388.83808	1.81754	0.33103	2.12565	0.32675	1.58E-03	7.44E-05	1.18E-05	8.70E-05	1.12E-05	1.7622E-03
520129.04	4258302.47	34388.44548	0.27916	6.04277	0.28681	7.06575	1.58E-03	1.14E-05	2.16E-04	1.17E-05	2.43E-04	2.0596E-03
520599.9	4258743.63	34379.97448	0.17097	0.13472	0.16417	0.14003	1.58E-03	7.00E-06	4.82E-06	6.72E-06	4.81E-06	1.6006E-03
520197.81	4258222.69	34342.25139	0.23111	2.13369	0.23962	2.39238	1.58E-03	9.46E-06	7.63E-05	9.81E-06	8.21E-05	1.7533E-03
519968.81	4258856.03	34337.45934	1.06956	0.44823	1.21251	0.43679	1.58E-03	4.38E-05	1.60E-05	4.96E-05	1.50E-05	1.6998E-03
519964.81	4258798.15	34335.24087	0.91996	0.56598	1.04223	0.54303	1.58E-03	3.77E-05	2.02E-05	4.27E-05	1.86E-05	1.6945E-03
520295.91	4258152.99	34328.11068	0.19599	0.89179	0.20653	0.9708	1.57E-03	8.02E-06	3.19E-05	8.46E-06	3.33E-05	1.6566E-03
520246.87	4258182.84	34326.72262	0.21162	1.31594	0.22336	1.44902	1.57E-03	8.66E-06	4.71E-05	9.15E-06	4.97E-05	1.6895E-03
520588.93	4258793.77	34324.52412	0.18215	0.13036	0.17518	0.13521	1.57E-03	7.46E-06	4.66E-06	7.17E-06	4.64E-06	1.5987E-03
520548.78	4258208.85	34301.10759	0.1492	0.21862	0.1501	0.23045	1.57E-03	6.11E-06	7.82E-06	6.15E-06	7.91E-06	1.6017E-03
520093.79	4259074.4	34277.5253	13.54486	0.27165	12.4973	0.25478	1.57E-03	5.55E-04	9.72E-06	5.12E-04	8.75E-06	2.6573E-03
520384.1	4258123.27	34273.71355	0.1732	0.51037	0.17808	0.54355	1.57E-03	7.09E-06	1.83E-05	7.29E-06	1.87E-05	1.6237E-03
520168.35	4258252.6	34272.57464	0.24676	3.08215	0.25317	3.50454	1.57E-03	1.01E-05	1.10E-04	1.04E-05	1.20E-04	1.8234E-03
520315.52	4258143.05	34270.54781	0.19015	0.77769	0.19933	0.84307	1.57E-03	7.79E-06	2.78E-05	8.16E-06	2.89E-05	1.6450E-03
519967.12	4258755.49	34268.68906	0.85556	0.69275	0.9797	0.65548	1.57E-03	3.50E-05	2.48E-05	4.01E-05	2.25E-05	1.6946E-03
519965.26	4258823.34	34261.05871	0.96936	0.50834	1.09827	0.49125	1.57E-03	3.97E-05	1.82E-05	4.50E-05	1.69E-05	1.6915E-03
520442.83	4258123.45	34257.20785	0.16252	0.37085	0.16649	0.39129	1.57E-03	6.65E-06	1.33E-05	6.82E-06	1.34E-05	1.6118E-03
520577.15	4258291.09	34208.79956	0.14846	0.19222	0.14786	0.20082	1.57E-03	6.08E-06	6.88E-06	6.05E-06	6.89E-06	1.5953E-03
520276.3	4258162.93	34205.82558	0.20152	1.03303	0.21299	1.12969	1.57E-03	8.25E-06	3.70E-05	8.72E-06	3.88E-05	1.6620E-03
520550.82	4258888.38	34200.62453	0.21771	0.12457	0.20963	0.13016	1.57E-03	8.91E-06	4.46E-06	8.58E-06	4.47E-06	1.5955E-03
520562.88	4258863.37	34192.35613	0.20635	0.12547	0.1987	0.13083	1.57E-03	8.45E-06	4.49E-06	8.14E-06	4.49E-06	1.5942E-03
520029.6	4258550.48	34145.60819	0.80449	3.79827	0.97158	3.09311	1.57E-03	3.29E-05	1.36E-04	3.98E-05	1.06E-04	1.8813E-03
520207.63	4258212.72	34143.93513	0.22581	1.91803	0.23509	2.14055	1.57E-03	9.25E-06	6.68E-05	9.63E-06	7.35E-05	1.7274E-03
520505.24	4258150.16	34137.76433	0.154	0.26818	0.15769	0.2837	1.57E-03	6.31E-06	9.59E-06	6.46E-06	9.74E-06	1.5983E-03
519986.36	4258928.32	34133.56662	1.48307	0.35318	1.70185	0.3481	1.57E-03	6.07E-05	1.26E-05	6.97E-05	1.20E-05	1.7210E-03
520523.6	4258168.03	34110.39649	0.15178	0.24532	0.1547	0.25956	1.56E-03	6.21E-06	8.77E-06	6.33E-06	8.91E-06	1.5952E-03
520592.46	4258785.34	34095.41483	0.17915	0.13079	0.17229	0.13559	1.56E-03	7.34E-06	4.68E-06	7.05E-06	4.65E-06	1.5880E-03
520374.31	4258123.24	34035.77436	0.17474	0.53999	0.18013	0.57638	1.56E-03	7.15E-06	1.93E-05	7.38E-06	1.98E-05	1.6151E-03
520530.51	4258926.8	34034.01388	0.22811	0.12552	0.22871	0.12929	1.56E-03	9.75E-06	4.42E-06	9.36E-06	4.44E-06	1.5894E-03
520158.53	4258262.56	34028.75283	0.25192	3.5568	0.25786	4.06928	1.56E-03	1.03E-05	1.27E-04	1.06E-05	1.40E-04	1.8490E-03
520575.9	4258280.54	34025.79737	0.14778	0.194	0.14706	0.20257	1.56E-03	6.05E-06	6.94E-06	6.02E-06	6.95E-06	1.5870E-03
520581.53	4258312.99	33996.86927	0.14914	0.18688	0.14863	0.19575	1.56E-03	6.11E-06	6.68E-06	6.09E-06	6.72E-06	1.5853E-03
520474.1	4259010.2	33992.77608	0.30789	0.12386	0.29467	0.12992	1.56E-03	1.26E-05	4.43E-06	1.21E-05	4.46E-06	1.5931E-03
519971.62	4258718.12	33955.11386	0.81729	0.8406	0.93885	0.78869	1.56E-03	3.35E-05	3.01E-05	3.84E-05	2.71E-05	1.6868E-03
520558.45	4258223	33946.72451	0.14772	0.20965	0.14767	0.22055	1.56E-03	6.05E-06	7.50E-06	6.05E-06	7.57E-06	1.5846E-03
520335.13	4258133.12	33942.76126	0.18392	0.68442	0.19177	0.73812	1.56E-03	7.53E-06	2.45E-05	7.85E-06	2.53E-05	1.6224E-03
520580.35	4258302.47	33935.39188	0.14848	0.18882	0.14798	0.19749	1.56E-03	6.08E-06	6.75E-06	6.06E-06	6.78E-06	1.5826E-03
520604.05	4258709.78	33925.00415	0.16575	0.13801	0.15927	0.14361	1.56E-03	6.79E-06	4.94E-06	6.52E-06	4.93E-06	1.5796E-03
519968.64	4258735.05	33906.92706	0.82638	0.76513	0.94532	0.72085	1.56E-03	3.38E-05	2.74E-05	3.87E-05	2.47E-05	1.6802E-03
520585.36	4258369.19	33869.98038	0.15308	0.17871	0.15111	0.18786	1.55E-03	6.27E-06	6.39E-06	6.19E-06	6.45E-06	1.5792E-03
520217.45	4258202.75	33867.98077	0.22054	1.73453	0.23049	1.92751	1.55E-03	9.03E-06	6.20E-05	9.44E-06	6.62E-05	1.7005E-03
520595.99	4258776.9	33816.15415	0.17621	0.13107	0.16941	0.13586	1.55E-03	7.21E-06	4.69E-06	6.94E-06	4.66E-06	1.5749E-03
520256.69	4258172.87	33805.59689	0.2063	1.21128	0.21798	1.3301	1.55E-03	8.45E-06	4.33E-05	8.92E-06	4.57E-05	1.6573E-03
520364.52	4258123.21	33802.63428	0.17634	0.57188	0.18225	0.61226	1.55E-03	7.22E-06	2.05E-05	7.46E-06	2.10E-05	1.6070E-03
520603.46	4258735.12	33782.45153	0.16819	0.13467	0.16157	0.14006	1.55E-03	6.89E-06	4.82E-06	6.62E-06	4.81E-06	1.5730E-03
520538.7	4258184.51	33781.18872	0.14947	0.22893	0.15152	0.24191	1.55E-03	6.12E-06	8.19E-06	6.20E-06	8.30E-06	1.5786E-03
520539.94	4258912.89	33779.60874	0.22862	0.12326	0.21985	0.12896	1.55E-03	9.36E-06	4.41E-06	9.00E-06	4.43E-06	1.5769E-03
520014.13	4258989.75	33778.83036	2.4537	0.30224	2.96556	0.29775	1.55E-03	1.00E-04	1.08E-05	1.21E-04	1.02E-05	1.7926E-03
519964.19	4258772.54	33769.01993	0.8588	0.63287	0.97715	0.60201	1.55E-03	3.52E-05	2.26E-05	4.00E-05	2.07E-05	1.6677E-03
520062.83	4258443.35	33768.29501	0.46183	18.04345	0.50472	9.2422	1.55E-03	1.89E-05	6.45E-04	2.07E-05	3.17E-04	2.5515E-03
520574.77	4258270.04	33763.46233	0.14706	0.19556	0.14624	0.20418	1.55E-03	6.02E-06	6.99E-06	5.99E-06	7.01E-06	1.5750E-03
520514.16	4258153.98	33754.57384	0.15226	0.2568	0.15566	0.27171	1.55E-03	6.23E-06	9.19E-06	6.37E-06	9.33E-06	1.5797E-03
520507.25	4258966.46	33749.66877	0.26417	0.12322	0.25319	0.12896	1.55E-03	1.08E-05	4.41E-06

520403.71	4258113.33	33238.16089	0.16678	0.45861	0.17102	0.48619	1.52E-03	6.83E-06	1.64E-05	7.00E-06	1.67E-05	1.5718E-03
520433.08	4258113.42	33225.68413	0.16172	0.39159	0.16546	0.41331	1.52E-03	6.62E-06	1.40E-05	6.77E-06	1.42E-05	1.5659E-03
520568.33	4258237.24	33196.56255	0.14584	0.20172	0.14524	0.21137	1.52E-03	5.97E-06	7.22E-06	5.95E-06	7.26E-06	1.5494E-03
520138.89	4258282.5	33154.37817	0.26193	4.96207	0.26787	5.76707	1.52E-03	1.07E-05	1.77E-04	1.10E-05	1.98E-04	1.9182E-03
520504.87	4258139.99	33148.70165	0.15219	0.26995	0.156	0.28519	1.52E-03	6.23E-06	9.66E-06	6.39E-06	9.79E-06	1.5529E-03
520237.09	4258182.81	33142.34965	0.21022	1.43995	0.22105	1.58863	1.52E-03	8.61E-06	5.15E-05	9.05E-06	5.45E-05	1.6442E-03
519889.33	4258949.53	33135.8498	1.57406	3.02965	1.81347	0.32545	1.52E-03	6.44E-05	1.18E-05	7.43E-05	1.12E-05	1.6819E-03
520482.84	4259006.58	33127.4013	0.2957	0.1224	0.28336	0.12822	1.52E-03	1.21E-05	4.38E-06	1.16E-05	4.40E-06	1.5523E-03
520607.02	4258726.61	33120.50022	0.1655	0.13456	0.15905	0.13999	1.52E-03	6.78E-06	4.81E-06	6.51E-06	4.81E-06	1.5424E-03
520393.92	4258113.3	33098.82539	0.16832	0.48419	0.17294	0.51423	1.52E-03	6.89E-06	1.73E-05	7.08E-06	1.77E-05	1.5675E-03
520603.05	4258760.03	33090.22545	0.17053	0.13126	0.16387	0.13618	1.52E-03	6.98E-06	4.69E-06	6.71E-06	4.68E-06	1.5412E-03
520572.79	4258249.17	33083.33663	0.14555	0.19801	0.14473	0.20704	1.52E-03	5.96E-06	7.08E-06	5.93E-06	7.11E-06	1.5439E-03
519961.14	4258789.3	33078.23198	0.85658	0.58024	0.96833	0.5548	1.52E-03	3.51E-05	2.08E-05	3.96E-05	1.90E-05	1.6321E-03
519972.87	4258902.77	33068.49957	1.19487	0.37707	1.35028	0.3705	1.52E-03	4.89E-05	1.35E-05	5.53E-05	1.27E-05	1.6475E-03
520442.86	4258113.45	33067.26202	0.15987	0.37206	0.16365	0.39225	1.52E-03	6.55E-06	1.33E-05	6.70E-06	1.35E-05	1.5571E-03
520607.64	4258701.19	33051.19666	0.16313	0.13811	0.15684	0.14356	1.52E-03	6.68E-06	4.94E-06	6.42E-06	4.93E-06	1.5393E-03
520344.95	4258123.15	33034.57235	0.1789	0.64464	0.18623	0.69343	1.52E-03	7.32E-06	2.31E-05	7.63E-06	2.38E-05	1.5774E-03
520019.69	4258569.92	33028.88897	0.80331	2.84712	0.98169	2.41052	1.52E-03	3.29E-05	1.02E-04	4.02E-05	8.28E-05	1.7730E-03
520581.18	4258461.69	33026.14329	0.162	0.17331	0.15835	0.18218	1.52E-03	6.63E-06	6.20E-06	6.48E-06	6.25E-06	1.5407E-03
520588.66	4258377.86	33009.68514	0.15248	0.17592	0.1502	0.18479	1.51E-03	6.24E-06	6.29E-06	6.15E-06	6.34E-06	1.5395E-03
520063.93	4258432.91	33001.85004	0.43209	19.86185	0.47051	9.65784	1.51E-03	1.77E-05	7.10E-04	1.93E-05	3.32E-04	2.5930E-03
520049.4	4258501.91	32999.41635	0.66306	7.82166	0.74933	5.64922	1.51E-03	2.71E-05	2.80E-04	3.07E-05	1.94E-04	2.0455E-03
520547.42	4258188.24	32982.101	0.1472	0.22062	0.14883	0.23287	1.51E-03	6.03E-06	7.89E-06	6.09E-06	7.99E-06	1.5412E-03
520099.55	4258342.38	32945.5858	0.30696	14.25294	0.32149	15.95838	1.51E-03	1.26E-05	5.10E-04	1.32E-05	5.48E-04	2.5949E-03
519975.54	4258913.86	32943.15602	1.25224	0.36398	1.41802	0.35814	1.51E-03	5.13E-05	1.30E-05	5.81E-05	1.23E-05	1.6460E-03
520559.46	4258884.8	32936.57666	0.21038	0.11268	0.20277	0.12805	1.51E-03	8.61E-06	4.39E-06	8.30E-06	4.40E-06	1.5368E-03
520538.96	4258923.31	32922.6255	0.23	0.12165	0.22115	0.12727	1.51E-03	9.42E-06	4.35E-06	9.05E-06	4.37E-06	1.5376E-03
519965.56	4258872.3	32913.50494	1.04575	0.41632	1.17678	0.40699	1.51E-03	4.28E-05	1.49E-05	4.82E-05	1.40E-05	1.6299E-03
520384.13	4258113.27	32901.62792	0.16979	0.51169	0.1749	0.54451	1.51E-03	6.95E-06	1.83E-05	7.16E-06	1.87E-05	1.5606E-03
520574.77	4258851.53	32896.689	0.19655	0.12405	0.18936	0.12913	1.51E-03	8.05E-06	4.44E-06	7.75E-06	4.43E-06	1.5339E-03
520473.6	4259020.41	32890.61152	0.30888	0.12178	0.29578	0.12782	1.51E-03	1.26E-05	4.36E-06	1.21E-05	4.39E-06	1.5425E-03
519961.27	4258837.83	32881.34844	0.93991	0.47254	1.05885	0.45815	1.51E-03	3.85E-05	1.69E-05	4.34E-05	1.57E-05	1.6230E-03
520092.5	4259085.69	32860.31542	13.99496	0.2623	13.16474	0.2464	1.51E-03	5.73E-04	9.38E-06	5.39E-04	8.46E-06	2.6374E-03
520581.78	4258834.8	32854.27931	0.19034	0.12517	0.18343	0.13011	1.51E-03	7.79E-06	4.48E-06	7.51E-06	4.47E-06	1.5315E-03
520588.23	4258402.59	32851.08815	0.15465	0.17444	0.15194	0.18296	1.51E-03	6.33E-06	6.22E-06	6.22E-06	6.28E-06	1.5322E-03
520513.73	4258143.78	32844.6106	0.15061	0.25844	0.15415	0.27316	1.51E-03	6.17E-06	9.24E-06	6.31E-06	9.38E-06	1.5379E-03
520589.45	4258354.05	32826.55231	0.1501	0.17728	0.14849	0.18639	1.51E-03	6.15E-06	6.34E-06	6.08E-06	6.40E-06	1.5310E-03
520295.94	4258142.99	32823.42032	0.19104	0.89476	0.20163	0.97308	1.51E-03	7.82E-06	3.20E-05	8.85E-06	3.34E-05	1.5874E-03
520585.28	4258226.43	32793.13729	0.1873	0.12562	0.18047	0.1305	1.50E-03	7.67E-06	4.49E-06	7.39E-06	4.48E-06	1.5285E-03
520541.55	4258175.72	32778.14398	0.14748	0.22659	0.14964	0.23941	1.50E-03	6.04E-06	8.10E-06	6.13E-06	8.22E-06	1.5323E-03
520315.55	4258133.05	32774.58458	0.18559	0.78025	0.19503	0.84475	1.50E-03	7.60E-06	2.79E-05	7.99E-06	2.90E-05	1.5761E-03
520005.1	4258986.02	32754.29659	2.07543	0.30062	2.45611	0.29681	1.50E-03	8.50E-05	1.08E-05	1.01E-04	1.02E-05	1.7092E-03
520567.36	4258226.81	32754.21223	0.14508	0.20272	0.14474	0.21271	1.50E-03	5.94E-06	7.25E-06	5.93E-06	7.30E-06	1.5291E-03
520374.34	4258113.24	32741.87632	0.17141	0.54119	0.17698	0.5777	1.50E-03	7.02E-06	1.94E-05	7.25E-06	1.98E-05	1.5556E-03
519977.12	4258683.15	32741.09058	0.77385	1.02154	0.89796	0.94941	1.50E-03	3.17E-05	3.65E-05	3.68E-05	3.26E-05	1.6397E-03
520058.1	4258461.19	32738.39523	0.50816	12.63619	0.55853	7.66387	1.50E-03	2.08E-05	4.52E-04	2.29E-05	2.63E-04	2.2607E-03
520506.54	4258976.76	32731.79435	0.26534	0.1215	0.25437	0.12711	1.50E-03	1.09E-05	4.35E-06	1.04E-05	4.36E-06	1.5317E-03
520531.99	4258161.61	32713.23906	0.14839	0.23682	0.15117	0.25038	1.50E-03	6.08E-06	8.47E-06	6.19E-06	8.60E-06	1.5302E-03
520246.91	4258172.84	32709.68868	0.20519	1.32046	0.21624	1.45226	1.50E-03	8.40E-06	4.72E-05	8.85E-06	4.99E-05	1.6150E-03
520556.85	4258202.29	32695.71133	0.1458	0.21194	0.14665	0.2232	1.50E-03	5.97E-06	7.58E-06	6.00E-06	7.66E-06	1.5272E-03
520497.39	4258990.55	32694.07824	0.27665	0.12152	0.26513	0.12715	1.50E-03	1.13E-05	4.35E-06	1.09E-05	4.37E-06	1.5308E-03
520276.33	4258152.93	32687.27995	0.19611	1.03649	0.20731	1.1326	1.50E-03	8.03E-06	3.71E-05	8.49E-06	3.89E-05	1.5921E-03
520188.02	4258222.66	32663.1605	0.22759	2.39755	0.23421	2.69893	1.50E-03	9.32E-06	8.58E-05	9.59E-06	9.27E-05	1.6958E-03
520515.86	4258962.89	32653.16147	0.25442	0.12132	0.24405	0.12693	1.50E-03	1.04E-05	4.34E-06	9.99E-06	4.36E-06	1.5272E-03
520588.78	4258818.06	32643.84059	0.18422	0.11587	0.17741	0.13071	1.50E-03	7.54E-06	4.50E-06	7.26E-06	4.49E-06	1.5214E-03
520606.58	4258751.6	32638.75295	0.16779	0.13125	0.16124	0.13627	1.50E-03	6.87E-06	4.69E-06	6.60E-06	4.68E-06	1.5202E-03
520548.45	4258909.37	32629.56327	0.22089	0.12142	0.21266	0.12694	1.50E-03	9.04E-06	4.34E-06	8.71E-06	4.36E-06	1.5234E-03
520178.2	4258232.63	32626.78859	0.23236	2.70823	0.23826	3.06413	1.50E-03	9.51E-06	9.76E-05	9.76E-06	1.05E-04	1.7182E-03
519977.29	4258924.58	32609.04867	1.2946	0.35141	1.46809	0.34617	1.50E-03	5.30E-05	1.26E-05	6.01E-05	1.19E-05	1.6336E-03
520197.84	4258212.69	32589.05939	0.22276	2.14049	0.23019	2.39715	1.50E-03	9.12E-06	7.66E-05	9.42E-06	8.23E-05	1.6725E-03
520525.35	4258948.96	32559.66817	0.24404	0.12106	0.23432	0.12667	1.49E-03	9.99E-06	4.33E-06	9.59E-06	4.35E-06	1.5220E-03
519990.66	4258960.07	32552.76768	1.61672	0.31875	1.86574	0.3149	1.49E-03	6.62E-05	1.14E-05	7.64E-05	1.08E-05	1.6583E-03
520335.16	4258123.12	32545.83285	0.1799	0.68629	0.18802	0.73972	1.49E-03	7.37E-06	2.45E-05	7.70E-06	2.54E-05	1.5581E-03
520053.74	4259053.64	32542.44544	7.08229	0.26904	11.85116	0.25957	1.49E-03	2.90E-04	9.62E-06	4.85E-04	8.91E-06	2.2867E-03
520586.13	4258294.93	32511.30218	0.14565	0.18537	0.14504	0.19371	1.49E-03	5.96E-06	6.63E-06	5.94E-06	6.65E-06	1.5167E-03
520364.56	4258113.21	32494.73252	0.17287	0.57311	0.179	0.61356	1.49E-03	7.08E-06	2.05E-05	7.33E-06	2.11E-05	1.5468E-03
519963.37	4258746.45	32481.24864	0.79004	0.70647	0.89865	0.66762	1.49E-03	3.23E-05	2.53E-05	3.68E-05	2.29E-05	1.6075E-03
520168.38	4258242.6	32471.40524	0.23705	3.08983	0.2424	3.51282	1.49E-03	9.71E-06	1.11E-04	9.92E-06	1.21E-04	1.7405E-03
520129.07	4258292.47	32470.72519	0.26654	6.05791	0.27323	7.08338	1.49E-03	1.09E-05	2.17E-04	1.12E-05	2.43E-04	1.9717E-03
520043.82	4259043.65	32454.85322	5.08094	0.27154	7.11513	0.26374	1.49E-03	2.08E-04	9.71E-06	2.91E-04	9.05E-06	2.0071E-03
520109.4	4258322.41	32446.66255	0.28827	10.04247	0.29897	11.82327	1.49E-03	1.18E-05	3.59E-04	1.22E-05	4.06E-04	2.2777E-03
520522.58	4258147.57	32437.09263	0.14889	0.24786	0.15216	0.262	1.49E-03	6.10E-06	8.87E-06	6.23E-06	8.99E-06	1.5183E-03
520207.66	4258202.72	32433.04942	0.21793	1.92423	0.22614	2.14493	1.49E-03	8.92E-06	6.88E-05	9.26E-06	7.36E-05	1.6486E-03
520584.79	4258204.34	32428.20931	0.14504	0.18726	0.14434	0.19547	1.49E-03	5.94E-06	6.70E-06	5.91E-06	6.71E-06	1.5130E-03
520535.04	4258934.94	32397.85056	0.23408	0.12072	0.22499	0.1263	1.49E-03	9.58E-06	4.32E-06	9.21E-06	4.34E-06	1.5138E-03
520610.59	4258718.1	32371.18091	0.16285	0.13434	0.15654	0.13976	1.49E-03	6.67E-06	4.81E-06	6.41E-06	4.80E-06	1.5078E-03
520595.79	4258801.33	32356.25933	0.17832	0.12669	0.17166	0.13138	1.48E-03	7.30E-06	4.53E-06	7.03E-06	4.51E-06	1.5078E-03
519961.82	4258863.29	32351.42892	0.98312	0.42712	1.10382	0.41666	1.48E-03	4.03E-05	1.53E-05	4.52E-05	1.43E-05	1.5993E-03
519994.72	4258971.74	32324.60661	1.73404	0.30891	2.01348	0.3053	1.48E-03	7.10E-05	1.10E-05	8.24E-05	1.05E-05	1.6580E-03
520569.61	4258870.59	32305.87407	0.20164	0.12218	0.19439	0.12735	1.48E-03	8.26E-06	4.37E-06	7.96E-06	4.37E-06	1.5071E-03
520566.46	4258216.42	32265.69377	0.14427	0.20369	0.14428	0.21398	1.48E-03	5.91E-06	7.29E-06	5.91E-06	7.35E-06	1.5067E-03
519978.91	4258935.24	32264.74106	1.33665	0.33956	1.51855	0.33484	1.48E-03	5.47E-05	1.21E-05	6.22E-05	1.15E-05	1.6208E-03
520583.58	4258273.81	32264.55492	0.14438	0.18892	0.14357	0.19708	1.48E-03	5.91E-06	6.76E-06	5.88E-06	6.77E-06	1.5055E-03
519957.99	4258805.82	32255.06124	0.85013	0.53373	0.95462	0.51293	1.48E-03	3.48E-05	1.91E-05	3.91E-05	1.76E-05	1.5904E-03
520588.97	4258306.16	32252.37029	0.14577	0.18224	0.14515	0.19076	1.48E-03	5.97E-06	6.52E-06	5.94E-06	6.55E-06	1.5047E-03
520256.73	4258162.87	32241.22881	0.20026	1.21542	0.21139	1.33291	1.48E-03	8.20E-06	4.35E-05	8.66E-06	4.58E-05	1.5853E-03
520558.15	4258895.35	32231.56585	0.21202	0.12116	0.20436	0.12652	1.48E-03	8.68E-06	4.33E-06	8.37E-06	4.34E-06	1.5044E-03
520491.58	4259002.97	32226.13509	0.28424	0.12072	0.27244	0.12635	1.48E-03	1.16E-05	4.32E-06	1.12E-05	4.34E-06	1.5099E-03
520590.23	4258316.71	32224.54009	0.14636	0.18024	0.14563	0.18897	1.48E-03	5.99E-06	6.45E-06	5.96E-06	6.49E-06	1.5033E-03
520158.56	4258252.57	32223.71944	0.24172	3.56535	0.24668	4.07895	1.48E-03	9.90E-06	1.28E-04	1.01E-05	1.40E-04	1.7659E-03
520599.29	4258792.96	32221.33439	0.17552	0.12712	0.16893	0.13174	1.48E-03	7.19E-06	4.55E-06	6.92E-06	4.52E-06	1.5014E-03
520217.48	4258192.75	32215.15415	0.21315	1.73998	0.22205	1.93184	1.48E-03	8.73E-06	6.22E-05	9.09E-06	6.63E-05	1.6243E-03
519960.48	4258763.6	32194.06734	0.79502	0.64671	0.90144	0.61361	1.48E-03	3.26E-05	2.31E-05	3.69E-05	2.11E-05	1.5907E-03
520354.77	4258113.18	32140.77593	0.1741	0.60803	0.18093	0.65245	1.47E-03	7.13E-06	2.17E-05	7.41E-06	2.24E-05	1.5332E-03
520305.76	4258133.02	32128.48256	0.1861	0.83579	0.19617	0.90664	1.47E-03	7.62E-06	2.99E-05	8.03E-06	3.11E-05	1.5507E-03
520556.14	4258191.98	32126.732	0.1449	0.21283	0.1461	0.22434	1.47E-03	5.93E-06	7.61E-06	5.98E-06	7.70E-06	1.5011E-03
520591.96	4258386.53	32126.37063	0.15183	0.17333	0.14932	0.18188	1.47E-03	6.22E-06	6.20E-06	6.11E-06	6.24E-06	1.4987E-03
520610.12	4258743.17	32125.26936	0.16512	0.13119	0.15872	0.1363	1.47E-03	6.76E-06	4.69E-06	6.50E-06	4.68E-06	1.4965E-03
520611.24	4258692.6	32117.66086	0.16054	0.13808	0.15438	0.14336	1.47E-03	6.57E-06	4.94E-06	6.32E-06	4.92E-06	1.4963E-03
520540.9	4258165.43	32081.95113	0.14633	0.22769	0.14876	0.2406	1.47E-03	5.99E-06	8.14E-06	6.09E-06	8.26E-06	1.5003E-03
520482.29	4259016.82	32081.43552	0.29671	0.12041	0.28447	0.12618	1.47E-03	1.21E-05	4.31E-06	1.16E-05	4.33E-06	1.5043E-03
520286.15	4258142.96	32067.56982	0.19113	0.36332	0.20202	1.04961	1.47E-03	7.83E-06	3.45E-05	8.27E-06	3.60E-05	1.5578E-03
520582.48	4258263.33	32050.59516	0.1437	0.19032	0.1428	0.19856	1.47E-03	5.88E-06	6.81E-06	5.85E-06	6.82E-06	1.4958E-03
520592.92	4258363.18	32019.37044	0.14953	0.17438	0.14755	0.18324	1.47E-03	6.12E-06	6.24E-06	6.04E-06	6.29E-06	1.4937E-03
520009.77	4258589.36	32014.54136	0.78119	2.20028	0.95204	1.92767	1.47E-03	3.20E-05	7.87E-05	3.90E-05	6.62E-05	1.6844E-03
519957.49	4258828.73	32009.46943	0.88024	0.48485	0.98874	0.46868	1.47E-03	3.60E-05	1.73E-05	4.05E-05	1.61E-05	1.5785E-03
520550.53	4258179.56	32008.92671	0.14523	0.2181	0.14699	0.23022	1.47E-03	5.95E-06	7.80E-06	6.02E-06	7.90E-06	1.4962E-03
520082.6	4259085.7	31994.17233	14.69285	0.25847	22.56179	0.24438	1.47E-03	6.02E-04	9.25E-06	9.24E-04	8.39E-06	3.0108E-03
520602.8	4258784.59	31989.46305	0.17271	0.1274	0.16617	0.132	1.47E-03	7.07E-06	4.56E-06	6.80E-06	4.53E-06	1.4906E-03
520325.37	4258123.09	31972.43202	0.18062	0.73213	0.18956	0.79031	1.47E-03	7.40E-06	2.62E-05	7.76E-06	2.71E-05	1.5353E-03
520531.44	4258151.36	31937.51567	0.14704	0.23809	0.15003	0.2516	1.47E-03	6.02E-06	8.52E-06	6.14E-06	8.64E-06	1.4945E-03
520064.67	4258422.61	31935.28788	0.40487	21.21994	0.43947	9.91515	1.47E-03	1.66E-05	7.59E-04	1.80E-05	3.40E-04	2.5991E-03
519987.12	4258646.05	31929.97772	0.75698	1.30981	0.88771	1.20129	1.46E-03	3.10E-05	4.69E-05	3.63E-05	4.12E-05	1.6203E-03
520227.3	4258182.78	31928.9116	0.20839	1.58174	0.21789	1.74948	1.46E-03	8.53E-06	5.66E-05	8.92E-06	6.01E-05	1.5989E-03
520577.31	4258241.09	31915.76491	0.14319	0.19405	0.1424	0.20382	1.46E-03	5.86E-06	6.97E-06	5.83E-06	7.00E-06	1.4899E-03
519965.06	4258726.4	31899.80057	0.76094	0.77682	0.86586	0.73155	1.46E-03	3.12E-05	2.78E-05	3.55E-05	2.51E-05	1.5830E-03
520148.74	4258262.53	31855.61639	0.24629	4.17347	0.25114	4.80852	1.46E-03	1.01E-05	1.49E-04	1.03E-05	1.65E-04	1.7962E-03
520039.48	4258521.35	31854.61498	0.70501	5.32347	0.8131	4.14493	1.46E-03	2.89E-05	1.90E-04	3.33E-05	1.42E-04	1.8563E-03
520547.41	4258919.81	31843.13576	0.22228	0.11985	0.21397	0.12531	1.46E-03	9.10E-06	4.29E-06	8.76E-06	4.30E-06	1.4874E-03
519980.41	4258945.85	31838.57757	1.37607	0.32825	1.56584	0.32399	1.46E-03	5.63E-05	1.17E-05	6.41E-05	1.11E-05	1.6040E-03
520591.56	4258411.35	31829.52838	0.15389	0.17172	0.15101	0.18003	1.46E-03	6.30E-06	6.14E-06	6.18E-06	6.18E-06	1.4851E-03
520584.66	4258470.82	31814.54817	0.16088	0.17043	0.1569	0.17915	1.46E-03	6.59E-06	6.10E-06	6.42E-06	6.15E-06	1.4848E-03
520581.47	4258252.88	31767.8999	0.14297	0.19155	0.14207	0.19993	1.46E-03	5.85E-06	6.85E-06	5.82E-06	6.86E-06	1.4828E-03
520092.52	4259095.69	31764.86042	13.92233	0.25481	13.11874	0.23955	1.46E-03	5.70E-04	9.11E-06	5.37E-04	8.21E-06	2.5818E-03
520266.55	4258152.9	31762.23995	0.1955	1.1224	0.20655	1.22803	1.46E-03	8.00E-06	4.01E-05	8.46E-06	4.22E-05	1.5560E-03
519957.47	4258780.46	31747.74165	0.7977	0.59335	0.89795	0.56586	1.46E-03	3.27E-05	2.12E-05	3.68E-05	1.94E-05	1.5666E-03
520565.63	4258206.05	31740.88508	0.14341	0.20464	0.14382	0.21517	1.46E-03	5.87E-06	7.32E-06	5.89E-06	7.39E-06	1.4827E-03
520505.88	4258987.04	31739.74378	0.26639	0.11976	0.25545	0.12525	1.46E-03	1.09E-05	4.28E-06	1.05E-05	4.30E-06	1.4861E-03
520344.98	4258113.15	31715.66721	0.17514	0.64619	0.18273	0.69481	1.46E-03	7.17E-06	2.31E-05	7.48E-06	2.39E-05	1.5167E-03
520568.1	4258881.22	31712.53887	0.20338	0.12084	0.19621	0.126	1.45E-03	8.33E-06	4.32E-06	8.03E-06	4.33E-06	1.4799E-03
519958.09	4258854.28	31706.7313	0.92404	0.43815	1.03555	0.42636	1.45E-03	3.78E-05	1.57E-05	4.24E-05	1.46E-05	1.5652E-03
519996.06	4258982.29	31705.13852	1.78063	0.29923	2.07202	0.29581	1.45E-03	7.29E-05	1.07E-05	8.48E-05	1.02E-05	1.6332E-03
520515.09	4258973.22	31704.2651	0.25556	0.11968	0.2452	0.12516	1.45E-03	1.05E-05	4.28E-06	1.00E-05	4.30E-06	1.4836E-03
519968	4258709.38	31650.04219	0.74783	0.851	0.8549	0.79838	1.45E-03	3.06E-05	3.04E-05	3.50E-05	2.74E-05	1.5755E-03
520524.46	4258959.33	31646.80486	0.24526	0.1195	0.23551	0.12498	1.45E-03	1.00E-05	4.27E-06	9.64E-06	4.29E-06	1.4801E-03
520614.15	4258709.59	31621.31942	0.16033	0.13433	0.15419	0.13965	1.45E-03	6.56E-06	4.80E-06	6.31E-06	4.79E-06	1.4732E-03
520119.25	4258302.44	31619.70295	0.27075	7.6361	0.27879	8.93373	1.45E-03	1.11E-05	2.73E-04	1.14E-05	3.07E-04	2.0530E-03
520237.12	4258172.81	31583.94638	0.20366	1.44462	0.21364	1.59203	1.45E-03	8.34E-06	5.17E-05	8.75E-06	5.47E-05	1.5724E-03
520054.17	4259063.64	31582.28473	7.21075	0.26145	12.25302	0.25224	1.45E-03	2.95E-04	9.35E-06	5.02E-04	8.66E-06	2.2639E-03
520576.26	4258230.63	31562.40375	0.1425	0.19598	0.1419	0.20517	1.45E-03	5.83E-06	7.01E-06	5.81E-06	7.04E-06	1.4737E-03
520534.01	4258945.37	31515.63945	0.23537	0.1192	0.22623	0.12467	1.45E-03	9.64E-06	4.26E-06	9.26E-06	4.28E-06	1.4733E-03
520556.96	4258905.85	31512.34601	0.21353	0.11963	0.2058	0.12497	1.45E-03	8.74E-06	4.28E-06	8.43E-06	4.29E-06	1.4715E-03
519977.12	4258673.87	31495.96201	0.74121	1.06119	0.85902	0.98478	1.44E-03	3.03E-05	3.80E-05	3.52E-05	3.38E-05	1.5823E-03
520043.84	4259053.65	31481.61187	5.10533	0.26359	7.14471	0.25607	1.44E-03	2.08E-04	9.43E-06	2.93E-04	8.79E-06	1.9641E-03
520295.97	4258132.99	31427.93502	0.18629	0.89749	0.19681	0.97525	1.44E-03	7.63E-06	3.21E-05	8.06E-06	3.35E-05	1.5231E-03
520315.58	4258123.05	31419.84279	0.1813	0.78243	0.19087	0.84655	1.44E-03	7.42E-06	2.80E-05	7.82E-06	2.91E-05	1.5138E-03
519964.02	4258899.11	31416.81936	1.05613	0.33474	1.18381	0.36788	1.44E-03	4.32E-05	1.34E-05	4.85E-05	1.26E-05	1.5591E-03
520609.8	4258767.86	31387.2034	0.16728	0.1278	0.16089	0.13246	1.44E-03	6.85E-06	4.57E-06	6.

519969.92	4258931.53	30860.23905	1.17707	0.33783	1.32387	0.33298	1.42E-03	4.82E-05	1.21E-05	5.42E-05	1.14E-05	1.5417E-03
520207.69	4258192.72	30856.11684	0.21047	1.92969	0.21768	2.14903	1.42E-03	8.62E-06	6.90E-05	8.91E-06	7.38E-05	1.5760E-03
520168.41	4258232.6	30832.86998	0.22799	3.09585	0.23237	3.52199	1.41E-03	9.33E-06	1.11E-04	9.51E-06	1.21E-04	1.6650E-03
520592.39	4258277.58	30824.58883	0.1418	0.18238	0.14096	0.19027	1.41E-03	5.81E-06	6.52E-06	5.77E-06	6.53E-06	1.4388E-03
520305.79	4258123.02	30811.33793	0.18169	0.83807	0.19175	0.90866	1.41E-03	7.44E-06	3.00E-05	7.85E-06	3.12E-05	1.4900E-03
520617.71	4258701.09	30801.21817	0.15785	0.13437	0.15188	0.13954	1.41E-03	6.46E-06	4.81E-06	6.22E-06	4.79E-06	1.4354E-03
520256.76	4258152.87	30797.56408	0.1945	1.21921	0.20499	1.33579	1.41E-03	7.96E-06	4.36E-05	8.39E-06	4.59E-05	1.5188E-03
520555.86	4258916.31	30793.62712	0.21491	0.1181	0.20711	0.12339	1.41E-03	8.80E-06	4.22E-06	8.48E-06	4.24E-06	1.4385E-03
520594.9	4258420.11	30788.66838	0.15308	0.16901	0.15004	0.17715	1.41E-03	6.27E-06	6.05E-06	6.14E-06	6.08E-06	1.4371E-03
520514.38	4258983.52	30776.1757	0.25658	0.11803	0.24623	0.12339	1.41E-03	1.05E-05	4.22E-06	1.01E-05	4.24E-06	1.4410E-03
520523.64	4258969.68	30760.06364	0.24638	0.11793	0.23663	0.12329	1.41E-03	1.01E-05	4.22E-06	9.69E-06	4.23E-06	1.4394E-03
520549.16	4258158.95	30749.78604	0.14312	0.22016	0.14543	0.23248	1.41E-03	5.86E-06	7.87E-06	5.95E-06	7.98E-06	1.4384E-03
520574.41	4258209.81	30748.08572	0.14102	0.19775	0.14102	0.20757	1.41E-03	5.77E-06	7.07E-06	5.77E-06	7.13E-06	1.4364E-03
520129.1	4258282.47	30738.19044	0.2549	0.67117	0.26074	7.10685	1.41E-03	1.04E-05	2.17E-04	1.07E-05	2.44E-04	1.8925E-03
520588.13	4258479.95	30737.68809	0.15972	0.16765	0.15539	0.17618	1.41E-03	6.54E-06	6.00E-06	6.36E-06	6.05E-06	1.4351E-03
520600.18	4258814.77	30732.76992	0.17666	0.12304	0.17029	0.12761	1.41E-03	7.23E-06	4.40E-06	6.97E-06	4.38E-06	1.4329E-03
520286.18	4258132.96	30695.77106	0.18621	0.96613	0.19687	1.0518	1.41E-03	7.62E-06	3.46E-05	8.06E-06	3.61E-05	1.4946E-03
520591.22	4258267.07	30693.47424	0.14117	0.1839	0.14023	0.19177	1.41E-03	5.78E-06	6.58E-06	5.74E-06	6.58E-06	1.4328E-03
520217.51	4258182.75	30679.15479	0.26611	1.74496	0.21402	1.93564	1.41E-03	8.44E-06	6.24E-05	8.76E-06	6.65E-05	1.5536E-03
520533.07	4258955.77	30673.40377	0.23659	0.1177	0.22742	0.12306	1.41E-03	9.69E-06	4.21E-06	9.31E-06	4.22E-06	1.4347E-03
520092.95	4259106.51	30670.84015	13.6661	0.24724	12.84313	0.23256	1.41E-03	5.60E-04	8.84E-06	5.26E-04	7.98E-06	2.5093E-03
520325.4	4258113.09	30666.78816	0.17655	0.73403	0.18567	0.7917	1.41E-03	7.23E-06	2.63E-05	7.60E-06	2.72E-05	1.4752E-03
520586.29	4258244.93	30654.73088	0.14063	0.1884	0.13968	0.19664	1.41E-03	5.76E-06	6.74E-06	5.72E-06	6.75E-06	1.4313E-03
519987.03	4258978.56	30637.52506	1.54638	0.29786	1.77303	0.29461	1.41E-03	6.33E-05	1.07E-05	7.26E-05	1.01E-05	1.5623E-03
520558.74	4258173.06	30619.89608	0.14201	0.21114	0.14367	0.22272	1.40E-03	5.81E-06	7.55E-06	5.88E-06	7.65E-06	1.4317E-03
520054.19	4259073.64	30617.15219	7.26964	0.25393	12.32973	0.24508	1.40E-03	2.98E-04	9.08E-06	5.05E-04	8.41E-06	2.2246E-03
519959.62	4258737.41	30612.00119	0.7284	0.71781	0.82353	0.67811	1.40E-03	2.98E-05	2.57E-05	3.37E-05	2.33E-05	1.5169E-03
520109.43	4258312.41	30608.24031	0.27444	10.07957	0.28436	11.60779	1.40E-03	1.12E-05	3.61E-04	1.16E-05	3.99E-04	2.1862E-03
520597.59	4258309.85	30596.69156	0.14309	0.17586	0.14229	0.18423	1.40E-03	5.86E-06	6.29E-06	5.83E-06	6.32E-06	1.4280E-03
520044.27	4259063.65	30585.63122	5.19516	0.25622	7.29918	0.24889	1.40E-03	2.13E-04	9.16E-06	2.99E-04	8.54E-06	1.9325E-03
520158.59	4258242.57	30565.13552	0.23218	3.57342	0.2363	4.08724	1.40E-03	9.51E-06	1.28E-04	9.68E-06	1.40E-04	1.6896E-03
520603.83	4258806.07	30552.04285	0.17375	0.1234	0.1674	0.1279	1.40E-03	7.11E-06	4.41E-06	6.85E-06	4.39E-06	1.4244E-03
519971.49	4258942.17	30535.43802	1.21249	0.32673	1.36552	0.32236	1.40E-03	4.96E-05	1.17E-05	5.59E-05	1.11E-05	1.5292E-03
519956.78	4258754.66	30535.33731	0.73503	0.65879	0.83063	0.62401	1.40E-03	3.01E-05	2.36E-05	3.40E-05	2.14E-05	1.5100E-03
519954.83	4258870.54	30524.50358	0.90651	0.40769	1.01069	0.39803	1.40E-03	3.71E-05	1.44E-05	4.14E-05	1.37E-05	1.5072E-03
520576.74	4258877.65	30523.4699	0.19672	0.11902	0.18992	0.12398	1.40E-03	8.05E-06	4.26E-06	7.78E-06	4.26E-06	1.4247E-03
520052.25	4258475.41	30515.15909	0.53939	9.10304	0.5953	6.26001	1.40E-03	2.21E-05	3.26E-04	2.44E-05	2.15E-04	1.9870E-03
520542.68	4258941.78	30503.6001	0.22714	0.11737	0.21855	0.1227	1.40E-03	9.30E-06	4.20E-06	8.95E-06	4.21E-06	1.4261E-03
520590.14	4258256.59	30502.96004	0.14051	0.18522	0.13951	0.19315	1.40E-03	5.75E-06	6.63E-06	5.71E-06	6.63E-06	1.4241E-03
520598.92	4258320.43	30472.73617	0.14355	0.17409	0.14261	0.18261	1.40E-03	5.88E-06	6.23E-06	5.84E-06	6.27E-06	1.4222E-03
520227.33	4258172.78	30442.84493	0.20176	1.58622	0.21031	1.75311	1.40E-03	8.26E-06	5.67E-05	8.61E-06	6.02E-05	1.5305E-03
520565.46	4258002.33	30430.93096	0.20651	0.11789	0.19926	0.12305	1.40E-03	8.46E-06	4.22E-06	8.16E-06	4.22E-06	1.4212E-03
520600.05	4258356.04	30418.15247	0.14617	0.17048	0.14424	0.17908	1.40E-03	5.98E-06	6.10E-06	5.91E-06	6.15E-06	1.4197E-03
520499.63	4259009.63	30417.18262	0.27439	0.11722	0.26322	0.12261	1.40E-03	1.12E-05	4.19E-06	1.08E-05	4.21E-06	1.4259E-03
520607.47	4258797.37	30415.33493	0.17092	0.12383	0.16468	0.12826	1.40E-03	7.00E-06	4.43E-06	6.74E-06	4.40E-06	1.4180E-03
520585.17	4258234.44	30382.81778	0.13998	0.18948	0.13915	0.19798	1.39E-03	5.73E-06	6.78E-06	5.70E-06	6.80E-06	1.4189E-03
520509.06	4258995.73	30360.36059	0.26283	0.11726	0.2522	0.12258	1.39E-03	1.08E-05	4.19E-06	1.03E-05	4.21E-06	1.4224E-03
519953.81	4258771.61	30337.46751	0.74219	0.60534	0.83205	0.57615	1.39E-03	3.04E-05	2.17E-05	3.41E-05	1.98E-05	1.4977E-03
520266.58	4258142.9	30326.54785	0.18996	1.12609	0.20056	1.22988	1.39E-03	7.78E-06	4.03E-05	8.21E-06	4.22E-05	1.4898E-03
520599.87	4258381.43	30326.09101	0.14824	0.16891	0.14568	0.17717	1.39E-03	6.07E-06	6.04E-06	5.96E-06	6.08E-06	1.4155E-03
520552.5	4258027.71	30318.18825	0.21814	0.11706	0.21013	0.12233	1.39E-03	8.93E-06	4.19E-06	8.60E-06	4.20E-06	1.4169E-03
520591.33	4258462.49	30315.10218	0.15729	0.16733	0.15347	0.17575	1.39E-03	6.44E-06	5.99E-06	6.28E-06	6.03E-06	1.4155E-03
520598.57	4258403.87	30297.38456	0.15041	0.16815	0.14753	0.1762	1.39E-03	6.16E-06	6.01E-06	6.04E-06	6.05E-06	1.4142E-03
520573.59	4258199.44	30296.99871	0.14024	0.19857	0.14061	0.20865	1.39E-03	5.74E-06	7.10E-06	5.76E-06	7.16E-06	1.4157E-03
520568.49	4258187.24	30283.54534	0.14058	0.20276	0.14151	0.21345	1.39E-03	5.76E-06	7.25E-06	5.79E-06	7.33E-06	1.4155E-03
520620.71	4258717.86	30251.49003	0.15754	0.13083	0.1516	0.13598	1.39E-03	6.45E-06	4.68E-06	6.21E-06	4.67E-06	1.4099E-03
520148.77	4258252.53	30222.6557	0.23636	4.18129	0.24039	4.82252	1.39E-03	9.68E-06	1.50E-04	9.84E-06	1.66E-04	1.7212E-03
519987.12	4258636.77	30218.75801	0.71727	1.35169	0.83822	1.23935	1.39E-03	2.94E-05	4.83E-05	3.43E-05	4.25E-05	1.5410E-03
519950.62	4258836.27	30170.00035	0.81552	0.46031	0.90954	0.44539	1.38E-03	3.34E-05	1.65E-05	3.72E-05	1.53E-05	1.4865E-03
519977.12	4258664.6	30164.16001	0.70839	1.09964	0.81929	1.01926	1.38E-03	2.90E-05	3.93E-05	3.35E-05	3.50E-05	1.5207E-03
520315.61	4258115.05	30155.39261	0.17715	0.78441	0.18677	0.84821	1.38E-03	7.25E-06	2.81E-05	7.65E-06	2.91E-05	1.4555E-03
520237.15	4258162.81	30148.99683	0.19744	1.44869	0.20653	1.59543	1.38E-03	8.08E-06	5.18E-05	8.46E-06	5.48E-05	1.5063E-03
519972.95	4258952.77	30148.38168	1.24635	0.31613	1.40542	0.31218	1.38E-03	5.10E-05	1.13E-05	5.75E-05	1.07E-05	1.5137E-03
520296	4258122.99	30137.57729	0.18174	0.89991	0.19209	0.99737	1.38E-03	7.44E-06	3.22E-05	7.86E-06	3.36E-05	1.4637E-03
520019.65	4258560.22	30132.39171	0.74116	2.91354	0.89039	2.46801	1.38E-03	3.03E-05	1.04E-04	3.65E-05	8.47E-05	1.6382E-03
520611.11	4258788.66	30106.58231	0.168	0.12399	0.16179	0.1284	1.38E-03	6.88E-06	4.43E-06	6.62E-06	4.41E-06	1.4036E-03
520620.31	4258742.75	30075.77263	0.15958	0.12775	0.15355	0.13267	1.38E-03	6.53E-06	4.57E-06	6.29E-06	4.55E-06	1.4018E-03
520584.14	4258223.98	30062.73988	0.13931	0.19044	0.13868	0.19922	1.38E-03	5.70E-06	6.81E-06	5.68E-06	6.84E-06	1.4043E-03
520558.02	4258162.74	30062.37317	0.14105	0.21205	0.14299	0.22377	1.38E-03	5.78E-06	7.58E-06	5.85E-06	7.68E-06	1.4061E-03
519948.95	4258810.54	30018.36199	0.77142	0.50845	0.85933	0.48876	1.38E-03	3.16E-05	1.82E-05	3.52E-05	1.68E-05	1.4789E-03
519976.51	4258964.23	30005.55781	1.31869	0.30637	1.49266	0.30281	1.38E-03	5.40E-05	1.10E-05	6.11E-05	1.04E-05	1.5131E-03
519989.93	4258628.23	29971.5234	0.71459	1.43795	0.83758	1.31416	1.38E-03	2.93E-05	5.14E-05	3.43E-05	4.51E-05	1.5351E-03
520575.29	4258888.25	29966.06145	0.19833	0.11762	0.19154	0.12259	1.37E-03	8.12E-06	4.21E-06	7.84E-06	4.21E-06	1.3992E-03
520119.28	4258292.44	29950.23357	0.25867	7.65376	0.26582	8.97114	1.37E-03	1.06E-05	2.74E-04	1.09E-05	3.08E-04	1.9773E-03
520621.27	4258692.58	29940.50118	0.15543	0.13437	0.14957	0.13937	1.37E-03	6.36E-06	4.81E-06	6.12E-06	4.78E-06	1.3957E-03
519951.13	4258861.61	29918.10723	0.85428	0.41773	0.95082	0.40681	1.37E-03	3.50E-05	1.49E-05	3.89E-05	1.40E-05	1.4754E-03
520083.05	4259106.53	29908.15166	16.4404	0.24371	21.66329	0.23068	1.37E-03	6.73E-04	8.72E-06	8.87E-04	7.92E-06	2.9402E-03
520522.88	4258980	29890.10105	0.24738	0.11636	0.23763	0.1216	1.37E-03	1.01E-05	4.16E-06	9.73E-06	4.17E-06	1.3995E-03
519950.72	4258788.29	29885.57995	0.742	0.55807	0.82879	0.53323	1.37E-03	3.04E-05	2.00E-05	3.39E-05	1.83E-05	1.4737E-03
520276.4	4258132.93	29885.52907	0.18568	1.04297	0.19619	1.13684	1.37E-03	7.60E-06	3.73E-05	8.03E-06	3.90E-05	1.4631E-03
520614.76	4258779.96	29877.46678	0.16532	0.12425	0.15916	0.12867	1.37E-03	6.77E-06	4.44E-06	6.52E-06	4.42E-06	1.3929E-03
520532.19	4258966.14	29850.63075	0.2377	0.11621	0.22852	0.12146	1.37E-03	9.73E-06	4.16E-06	9.36E-06	4.17E-06	1.3969E-03
519961.47	4258717.75	29841.8968	0.69994	0.78579	0.79096	0.7401	1.37E-03	2.87E-05	2.81E-05	3.25E-05	2.54E-05	1.4837E-03
520246.97	4258152.84	29818.0898	0.19318	1.32843	0.20268	1.45842	1.37E-03	7.91E-06	4.75E-05	8.30E-06	5.01E-05	1.4818E-03
520567.65	4258176.87	29799.73794	0.13976	0.20367	0.14104	0.21457	1.37E-03	5.72E-06	7.28E-06	5.77E-06	7.37E-06	1.3933E-03
520564.31	4258912.81	29772.73555	0.20788	0.11641	0.20056	0.12153	1.37E-03	8.51E-06	4.16E-06	8.21E-06	4.17E-06	1.3910E-03
519957.25	4258906.31	29764.15638	0.97511	0.35929	1.08573	0.35302	1.37E-03	3.99E-05	1.29E-05	4.45E-05	1.21E-05	1.4749E-03
520138.95	4258262.5	29751.17817	0.24035	4.98416	0.2447	5.7949	1.36E-03	9.84E-06	1.78E-04	1.00E-05	1.99E-04	1.7620E-03
520598.23	4258428.87	29743.27097	0.15223	0.16637	0.14903	0.17438	1.36E-03	6.23E-06	5.95E-06	6.10E-06	5.99E-06	1.3888E-03
520583.19	4258213.56	29716.0298	0.13862	0.19127	0.13827	0.20036	1.36E-03	5.68E-06	6.84E-06	5.66E-06	6.88E-06	1.3884E-03
520541.67	4258952.2	29694.63264	0.22826	0.1159	0.21964	0.12113	1.36E-03	9.35E-06	4.15E-06	8.99E-06	4.16E-06	1.3890E-03
520044.28	4259073.65	29679.73824	5.23124	0.24893	7.32551	0.24186	1.36E-03	2.14E-04	8.90E-06	3.00E-04	8.30E-06	1.8930E-03
520092.96	4259116.51	29678.54192	13.58657	0.24046	12.80452	0.22633	1.36E-03	5.56E-04	8.60E-06	5.24E-04	7.77E-06	2.4585E-03
519959.16	4258917.1	29659.89015	1.01005	0.34735	1.12566	0.34178	1.36E-03	4.14E-05	1.24E-05	4.61E-05	1.17E-05	1.4723E-03
520603.49	4258365.06	29653.60479	0.14558	0.16758	0.1433	0.17595	1.36E-03	5.96E-06	5.99E-06	5.87E-06	6.04E-06	1.3843E-03
520603.8	4258340	29614.43984	0.14345	0.16943	0.14192	0.17794	1.36E-03	5.87E-06	6.06E-06	5.81E-06	6.11E-06	1.3825E-03
520618.4	4258771.26	29596.68579	0.16269	0.12441	0.1566	0.12888	1.36E-03	6.66E-06	4.45E-06	6.41E-06	4.42E-06	1.3798E-03
520305.82	4258113.02	29563.1387	0.17739	0.84021	0.18738	0.91035	1.36E-03	7.26E-06	3.01E-05	7.67E-06	3.13E-05	1.4325E-03
519977.99	4258074.83	29555.105	1.35489	0.29677	1.53587	0.29352	1.36E-03	5.55E-05	1.06E-05	6.29E-05	1.01E-05	1.4950E-03
520551.34	4258938.19	29543.76146	0.21937	0.11561	0.21131	0.12081	1.36E-03	8.98E-06	4.14E-06	8.65E-06	4.15E-06	1.3813E-03
520623.82	4258734.39	29531.60268	0.15715	0.12764	0.15127	0.13261	1.35E-03	6.43E-06	4.57E-06	6.19E-06	4.55E-06	1.3766E-03
520065.62	4258402.25	29530.95626	0.35818	23.24203	0.38646	10.34739	1.35E-03	1.47E-05	8.31E-04	1.58E-05	3.55E-04	2.5719E-03
520624.24	4258709.43	29502.75622	0.15513	0.1307	0.14932	0.13577	1.35E-03	6.35E-06	4.67E-06	6.11E-06	4.66E-06	1.3753E-03
520508.34	4259006.03	29497.6433	0.2639	0.1156	0.2533	0.12083	1.35E-03	1.08E-05	4.13E-06	1.04E-05	4.15E-06	1.3828E-03
520188.08	4258202.66	29402.04914	0.21142	2.41065	0.21623	2.7072	1.35E-03	8.66E-06	8.85E-06	8.82E-05	9.29E-05	1.5497E-03
520099.61	4258322.38	29483.01474	0.27754	14.34204	0.2896	15.74337	1.35E-03	1.14E-05	5.13E-04	1.19E-05	5.40E-04	2.4293E-03
520197.9	4258192.69	29481.31525	0.20742	2.15197	0.21294	2.40538	1.35E-03	8.49E-06	7.70E-05	8.72E-06	8.26E-05	1.5293E-03
519960.94	4258927.82	29479.74552	1.04359	0.33595	1.16411	0.33097	1.35E-03	4.27E-05	1.20E-05	4.77E-05	1.14E-05	1.4662E-03
520517.8	4258992.11	29460.68813	0.25295	0.11558	0.24291	0.12077	1.35E-03	1.04E-05	4.13E-06	9.95E-06	4.15E-06	1.3802E-03
520603.35	4258390.56	29449.06011	0.14752	0.16631	0.14476	0.17428	1.35E-03	6.04E-06	5.95E-06	5.93E-06	5.98E-06	1.3750E-03
520178.26	4258212.63	29448.61668	0.21547	2.72122	0.21958	3.07519	1.35E-03	8.82E-06	9.73E-05	8.99E-06	1.06E-04	1.5718E-03
520009.73	4258579.66	29423.37035	0.72809	2.26632	0.88089	1.97516	1.35E-03	2.98E-05	8.11E-05	3.61E-05	6.78E-05	1.5646E-03
520256.79	4258142.87	29420.22081	0.18888	1.22288	0.19873	1.33782	1.35E-03	7.73E-06	4.37E-05	8.14E-06	4.59E-05	1.4553E-03
520595.26	4258248.77	29419.45348	0.13814	0.18202	0.13705	0.18978	1.35E-03	5.66E-06	6.51E-06	5.61E-06	6.52E-06	1.3740E-03
520286.22	4258122.96	29417.13689	0.18147	0.96868	0.19181	1.05373	1.35E-03	7.43E-06	3.46E-05	7.85E-06	3.62E-05	1.4357E-03
520207.72	4258182.72	29401.4435	0.20342	1.93439	0.20968	2.15295	1.35E-03	8.33E-06	6.92E-05	8.59E-06	7.39E-05	1.5089E-03
520588.99	4258865.44	29397.64856	0.18737	0.11776	0.18105	0.12246	1.35E-03	7.67E-06	4.21E-06	7.41E-06	4.20E-06	1.3722E-03
520052.9	4259085.75	29383.67035	6.97461	0.24471	11.40433	0.23647	1.35E-03	2.86E-04	8.75E-06	4.67E-04	8.12E-06	2.1174E-03
520592.6	4258856.82	29383.4287	0.18445	0.11816	0.17817	0.1228	1.35E-03	7.55E-06	4.23E-06	7.30E-06	4.22E-06	1.3713E-03
520573.97	4258898.8	29378.97059	0.19981	0.11619	0.19298	0.12116	1.35E-03	8.18E-06	4.16E-06	7.90E-06	4.16E-06	1.3722E-03
519601.21	4258281.36	29370.46162	0.13921	0.17611	0.13836	0.18376	1.35E-03	5.70E-06	6.30E-06	5.67E-06	6.31E-06	1.3714E-03
520601.87	4258412.54	29358.62034	0.14964	0.16561	0.1466	0.17348	1.35E-03	6.13E-06	5.92E-06	6.00E-06	5.96E-06	1.3709E-03
520577.46	4258191.09	29357.795	0.13822	0.1958	0.13875	0.20575	1.35E-03	5.66E-06	7.00E-06	5.68E-06	7.06E-06	1.3723E-03
520596.21	4258848.19	29355.35933	0.18155	0.11851	0.17529	0.12311	1.35E-03	7.43E-06	4.24E-06	7.18E-06	4.23E-06	1.3698E-03
520602.58	4258291.96	29350.57298	0.13973	0.17427	0.13892	0.18209	1.35E-03	5.72E-06	6.23E-06	5.69E-06	6.25E-06	1.3704E-03
519951.5	4258886.61	29347.9946	0.88734	0.38086	0.98587	0.37282	1.35E-03	3.63E-05	1.36E-05	4.04E-05	1.28E-05	1.4495E-03
519964.37	4258700.63	29347.31749	0.68451	0.85785	0.77825	0.80535	1.35E-03	2.80E-05	3.07E-05	3.19E-05	2.76E-05	1.4646E-03
520582.31	4258203.17	29340.82602	0.13791	0.19205	0.13789	0.20143	1.35E-03	5.65E-06	6.87E-06	5.65E-06	6.92E-06	1.3712E-03
520561.23	4258924.1	29339.01898	0.21076	0.11532	0.20325	0.12043	1.35E-03	8.63E-06	4.12E-06	8.32E-06	4.13E-06	1.3712E-03
520599.96	4258270.81	29329.30853	0.13866	0.1777	0.1377	0.18526	1.35E-03	5.68E-06	6.36E-06	5.64E-06	6.36E-06	1.3696E-03
520839.56	4259036.75	29306.02753	0.17867	0.11904	0.17253	0.12357	1.34E-03	7.32E-06	4.26E-06	7.06E-06	4.24E-06	1.3674E-03
520566.87	4258166.53	29300.67302	0.13889	0.20458	0.14049	0.21563	1.34E-03	5.69E-06	7.32E-06	5.75E-06	7.40E-06	1.3704E-03
520168.44	4258222.6	29294.07765	0.2194	3.10316	0.22303	3.52711	1.34E-03	8.98E-06	1.11E-04	9.13E-06	1.21E-04	1.5942E-03
519946.88	4258827.26	29284.18096	0.76567	0.47115	0.85116	0.45457	1.34E-03	3.13E-05	1.69E-05	3.48E-05	1.56E-05	1.4422E-03
520594.75	4258471.48	29260.49266	0.1562	0.1647	0.15207	0.17297	1.34E-03	6.40E-06	5.89E-06	6.23E-06	5.94E-06	1.3669E-03
520217.54	4258172.75	29252.7208	0.19941	1.74942	0.20639	1.93903	1.34E-03	8.16E-06	6.26E-05	8.45E-06	6.66E-05	1.4878E-03
520604.08	4258302.61	29246.65554	0.14019	0.17215	0.13933	0.18019	1.34E-03	5.74E-06	6.16E-06	5.70E-06	6.19E-06	1.3656E-03
520622.04	4258762.56	29242.38329	0.1601	0.12445	0.15409	0.129	1.34E-03	6.56E-06	4.45E-06	6.31E-06	4.43E-06	1.3633E-03
520603.44	4258830.94	29234.93289	0.17581	0.11954	0.16979	0.12401	1.34E-03	7.20E-06	4.28E-06	6.95E-06	4.26E-06	1.3639E-03
519947.43	4258852.69	29234.07246	0.8046	0.42785	0.89429	0.41549	1.34E-03	3.29E-05	1.53E-05	3.66E-05	1.44E-05	1.4403E-03
519962.58	4258938.49	29233.36053	1.07559	0.32504	1.20094	0.32057	1.34E-03	4.40E-05	1.16E-05	4.92E-05	1.10E-05	1.4570E-03
520598.82	4258260.31	29228.69255	0.13807	0.17907	0.13701	0.18663	1.34E-03	5.65E-06	6.41E-06	5.61E-06	6.41E-06	1.3650E-03
520594.07	4258238.25	29223.46303	0.13755	0.18318	0.1365	0.19113	1.34E-03	5.63E-06	6.55E-06	5.59E-06	6.56E-06	1.3651E-03
520129.13	4258272.47	29153.08279	0.2441	6.08444	0.24922	7.12524	1.34E-03	9.99E-06	2.18E-04	1.02E-05	2.45E-04	1.8199E-03
520607.05	4258822.31	29139.53497	0.17302	0.11993	0.16704	0.12433	1.34E-03	7.08E-06	4.29E-06	6.84E-06	4.27E-06	1.3593E-03
520158.62	4258232.57	29058.60602	0.2233	3.57944	0.22663	4.09779	1.33E-03	9.14E-06	1.28E-04	9.28E-06	1.41E-04	1.6203E-03
520227.36	4258162.78	29057.64762	0.19544	1.59025	0.20308	1.7563	1.33E-03	8.00E-06	5.69E-05	8.31E-06	6.03E-05	1.4666E-03
520531.37	4258976.48	29048.00529	0.23873	0.11473	0.22955	0.11985	1.33E-03	9.77E-06	4.10E-06

520052.91	4259095.75	28506.06325	7.03898	0.23793	11.46657	0.23001	1.31E-03	2.88E-04	8.51E-06	4.69E-04	7.90E-06	0.0819E-03
520247	4258142.84	28499.1456	0.18749	1.33201	0.19623	1.46067	1.31E-03	7.68E-06	4.76E-05	8.03E-06	5.01E-05	1.4210E-03
519943.73	4258843.77	28481.80603	0.75773	0.43783	0.84016	0.42397	1.31E-03	3.10E-05	1.57E-05	3.44E-05	1.46E-05	1.4023E-03
520575.73	4258170.32	28481.16013	0.13666	0.19752	0.13792	0.20788	1.31E-03	5.60E-06	7.07E-06	5.65E-06	7.14E-06	1.3321E-03
519968.96	4258971.1	28462.60928	1.19671	0.29556	1.34319	0.29226	1.31E-03	4.90E-05	1.06E-05	5.50E-05	1.00E-05	1.4304E-03
520621.5	4258787.81	28444.66187	0.16222	0.12114	0.15639	0.12534	1.30E-03	6.64E-06	4.33E-06	6.40E-06	4.30E-06	1.3267E-03
520586.44	4258194.93	28432.6273	0.1359	0.18918	0.136	0.19847	1.30E-03	5.56E-06	6.77E-06	5.57E-06	6.81E-06	1.3291E-03
519967.12	4258683.15	28430.92084	0.66159	0.93715	0.75594	0.87606	1.30E-03	2.71E-05	3.35E-05	3.10E-05	3.01E-05	1.4260E-03
520119.31	4258282.44	28417.51476	0.24746	7.67211	0.25389	8.99117	1.30E-03	1.01E-05	2.74E-04	1.04E-05	3.09E-04	1.9074E-03
520605.17	4258421.21	28408.84953	0.14684	0.16306	0.14564	0.17079	1.30E-03	6.09E-06	5.83E-06	5.96E-06	5.86E-06	1.3271E-03
520591.03	4258206.91	28403.96514	0.13565	0.18577	0.13523	0.19457	1.30E-03	5.55E-06	6.64E-06	5.54E-06	6.68E-06	1.3275E-03
520582.48	4258895.28	28362.25321	0.1934	0.11455	0.18699	0.11933	1.30E-03	7.92E-06	4.10E-06	7.66E-06	4.10E-06	1.3250E-03
520569.96	4258820.48	28360.18034	0.20372	0.11362	0.19668	0.11858	1.30E-03	8.34E-06	4.06E-06	8.05E-06	4.07E-06	1.3256E-03
519943.15	4258818.26	28329.46027	0.71866	0.48146	0.79565	0.46335	1.30E-03	2.94E-05	1.72E-05	3.26E-05	1.59E-05	1.3948E-03
520629.33	4258745.15	28322.19506	0.15505	0.1243	0.14929	0.12904	1.30E-03	6.35E-06	4.45E-06	6.11E-06	4.43E-06	1.3207E-03
520598.18	4258480.46	28318.75977	0.15507	0.16216	0.15061	0.17023	1.30E-03	6.35E-06	5.80E-06	6.17E-06	5.84E-06	1.3234E-03
519944.16	4258868.92	28276.81311	0.79249	0.39879	0.87663	0.38865	1.30E-03	3.24E-05	1.43E-05	3.59E-05	1.33E-05	1.3932E-03
520138.98	4258252.5	28242.72671	0.23061	4.9968	0.2344	5.7973	1.30E-03	9.44E-06	1.79E-04	9.60E-06	1.99E-04	1.6925E-03
520610.59	4258357.85	28242.26534	0.14235	0.16418	0.14014	0.17229	1.30E-03	5.83E-06	5.87E-06	5.74E-06	5.91E-06	1.3191E-03
519950.1	4258913.35	28183.23467	0.89965	0.34498	0.99588	0.33918	1.29E-03	3.68E-05	1.23E-05	4.08E-05	1.16E-05	1.3946E-03
520539.87	4258972.96	28183.00633	0.23036	0.11305	0.2217	0.11806	1.29E-03	9.43E-06	4.04E-06	9.08E-06	4.05E-06	1.3196E-03
520625.11	4258779.18	28180.6478	0.15968	0.12133	0.1539	0.12556	1.29E-03	6.54E-06	4.34E-06	6.30E-06	4.31E-06	1.3144E-03
520286.25	4258112.96	28168.93268	0.17573	0.97142	0.18677	1.05492	1.29E-03	7.24E-06	3.47E-05	7.65E-06	3.62E-05	1.3782E-03
520604.24	4258252.61	28162.2107	0.13566	0.17589	0.13451	0.18321	1.29E-03	5.55E-06	6.29E-06	5.51E-06	6.29E-06	1.3157E-03
520256.82	4258132.87	28150.53498	0.18353	1.22607	0.19269	1.33991	1.29E-03	7.51E-06	4.39E-05	7.89E-06	4.60E-05	1.3968E-03
520084.96	4259127.18	28140.38529	15.52793	0.22098	19.02608	0.21864	1.29E-03	6.36E-04	8.26E-06	7.79E-04	7.51E-06	2.7216E-03
520197.93	4258182.69	28100.50236	0.20038	2.1567	0.20506	2.40895	1.29E-03	8.20E-06	7.71E-05	8.40E-06	8.27E-05	1.4656E-03
520188.11	4258192.66	28099.73112	0.20406	2.41554	0.20806	2.71161	1.29E-03	8.36E-06	8.64E-05	8.52E-06	9.31E-05	1.4855E-03
519951.95	4258924.11	28093.21584	0.93018	0.33381	1.03038	0.32868	1.29E-03	3.81E-05	1.19E-05	4.22E-05	1.13E-05	1.3924E-03
520029.52	4258531.09	28085.34454	0.67132	3.92845	0.78019	3.20825	1.29E-03	2.75E-05	1.41E-04	3.19E-05	1.10E-04	1.5986E-03
520610.36	4258383.1	28082.16998	0.14426	0.16275	0.1415	0.17052	1.29E-03	5.91E-06	5.82E-06	5.79E-06	5.85E-06	1.3117E-03
520585.48	4258184.51	28064.15133	0.18521	0.18999	0.13569	0.19954	1.29E-03	5.54E-06	6.80E-06	5.56E-06	6.85E-06	1.3112E-03
520549.29	4258959.06	28050.02133	0.22144	0.11276	0.2133	0.11777	1.29E-03	9.07E-06	4.03E-06	8.73E-06	4.04E-06	1.3128E-03
520602.98	4258242.06	28048.07024	0.13513	0.1771	0.13395	0.18456	1.29E-03	5.53E-06	6.33E-06	5.48E-06	6.34E-06	1.3105E-03
520207.75	4258172.72	28045.99523	0.19672	1.93869	0.2021	2.15627	1.29E-03	8.05E-06	6.93E-05	8.27E-06	7.40E-05	1.4464E-03
519989.89	4258618.53	28036.40424	0.67422	1.47729	0.78852	1.35068	1.29E-03	2.76E-05	5.28E-05	3.23E-05	4.64E-05	1.4454E-03
520178.29	4258202.63	28015.28992	0.20768	2.72821	0.21112	3.07762	1.29E-03	8.50E-06	9.76E-05	8.64E-06	1.06E-04	1.5057E-03
520608.71	4258274.55	27971.33122	0.13616	0.17174	0.1352	0.17904	1.28E-03	5.57E-06	6.14E-06	5.54E-06	6.15E-06	1.3067E-03
520631.3	4258692.56	27969.62689	0.15058	0.13073	0.14498	0.13547	1.28E-03	6.17E-06	4.68E-06	5.94E-06	4.65E-06	1.3046E-03
520607.5	4258264.02	27944.95626	0.13563	0.17318	0.13456	0.1804	1.28E-03	5.55E-06	6.19E-06	5.51E-06	6.19E-06	1.3055E-03
520610.02	4258285.13	27936.61329	0.13665	0.17014	0.13576	0.17759	1.28E-03	5.60E-06	6.09E-06	5.56E-06	6.10E-06	1.3050E-03
519953.66	4258934.81	27933.87065	0.89938	0.12313	1.06346	0.31856	1.28E-03	3.93E-05	1.16E-05	4.35E-05	1.09E-05	1.3860E-03
520601.46	4258463.23	27932.8972	0.15277	0.1617	0.1488	0.1697	1.28E-03	6.26E-06	5.78E-06	6.09E-06	5.83E-06	1.3055E-03
520099.64	4258312.38	27931.524	0.2645	14.38467	0.27573	15.31853	1.28E-03	1.08E-05	5.15E-04	1.13E-05	5.26E-04	2.3440E-03
520217.57	4258162.75	27928.62509	0.19304	1.75331	0.19915	1.94212	1.28E-03	7.90E-06	6.27E-05	8.15E-06	6.67E-05	1.4268E-03
520558.88	4258945.08	27924.11751	0.21311	0.11253	0.20549	0.11751	1.28E-03	8.73E-06	4.03E-06	8.41E-06	4.03E-06	1.3063E-03
520094.88	4259137.17	27891.188	12.66773	0.22792	11.77934	0.21461	1.28E-03	5.19E-04	8.15E-06	4.82E-04	7.37E-06	2.2961E-03
520168.47	4258212.6	27876.75029	0.21133	3.1097	0.21431	3.53184	1.28E-03	8.65E-06	1.11E-04	8.77E-06	1.21E-04	1.5288E-03
520601.82	4258231.55	27876.01049	0.13455	0.17819	0.13344	0.18583	1.28E-03	5.51E-06	6.37E-06	5.46E-06	6.38E-06	1.3026E-03
520628.72	4258770.56	27867.10616	0.15717	0.12141	0.15146	0.1257	1.28E-03	6.44E-06	4.34E-06	6.20E-06	4.32E-06	1.2998E-03
520525.7	4258908.84	27861.99259	0.24477	0.11247	0.23532	0.11743	1.28E-03	1.00E-05	4.02E-06	9.63E-06	4.03E-06	1.3060E-03
520596.02	4258872.6	27853.51096	0.183	0.11472	0.17706	0.11925	1.28E-03	7.49E-06	4.10E-06	7.25E-06	4.09E-06	1.3008E-03
520611.47	4258295.76	27841.53692	0.13709	0.16826	0.13618	0.17591	1.28E-03	5.61E-06	6.02E-06	5.58E-06	6.04E-06	1.3006E-03
520599.6	4258864.04	27839.56553	0.18024	0.11513	0.17432	0.1196	1.28E-03	7.38E-06	4.12E-06	7.14E-06	4.11E-06	1.3000E-03
520535.28	4258984.87	27815.13624	0.235	0.11235	0.2261	0.1173	1.28E-03	9.62E-06	4.02E-06	9.26E-06	4.03E-06	1.3030E-03
520581.2	4258905.82	27813.78359	0.19476	0.11312	0.18827	0.11791	1.28E-03	7.97E-06	4.05E-06	7.71E-06	4.05E-06	1.2998E-03
520603.18	4258855.48	27813.06286	0.1775	0.11547	0.1716	0.1199	1.28E-03	7.27E-06	4.13E-06	7.03E-06	4.12E-06	1.2985E-03
520632.97	4258736.45	27781.71358	0.15262	0.12419	0.14701	0.12897	1.27E-03	6.25E-06	4.44E-06	6.02E-06	4.43E-06	1.2957E-03
519957.88	4258709.1	27781.67634	0.644	0.79196	0.72629	0.74641	1.27E-03	2.64E-05	2.83E-05	2.97E-05	2.56E-05	1.3846E-03
520050.29	4258455.9	27771.76966	0.45467	8.40345	0.49504	5.95118	1.27E-03	1.86E-05	3.01E-04	2.03E-05	2.04E-04	1.8179E-03
520266.64	4258122.9	27769.36693	0.17961	1.13225	0.18908	1.23139	1.27E-03	7.35E-06	4.05E-05	7.74E-06	4.23E-05	1.3719E-03
520606.77	4258846.93	27769.32782	0.17475	0.11584	0.16891	0.12022	1.27E-03	7.15E-06	4.14E-06	6.92E-06	4.13E-06	1.2963E-03
519944.31	4258893.39	27758.40357	0.82017	0.3652	0.90607	0.35769	1.27E-03	3.36E-05	1.31E-05	3.71E-05	1.23E-05	1.3695E-03
520227.39	4258152.78	27737.51884	0.18931	1.59437	0.19614	1.75823	1.27E-03	7.75E-06	5.70E-05	8.03E-06	6.04E-05	1.4057E-03
520568.67	4258931.02	27733.69225	0.20499	0.11226	0.19788	0.11717	1.27E-03	8.39E-06	4.02E-06	8.10E-06	4.02E-06	1.2969E-03
519955.25	4258945.46	27716.32044	0.98738	0.31291	1.09527	0.30882	1.27E-03	4.04E-05	1.12E-05	4.48E-05	1.06E-05	1.3786E-03
520610.35	4258838.37	27710.39394	0.17205	0.11639	0.16634	0.12071	1.27E-03	7.04E-06	4.16E-06	6.81E-06	4.14E-06	1.2935E-03
520129.16	4258262.47	27697.99358	0.23404	6.09769	0.23856	7.13881	1.27E-03	9.58E-06	2.18E-04	9.77E-06	2.45E-04	1.7533E-03
519942.4	4258792.34	27696.22017	0.67329	0.53008	0.74507	0.50712	1.27E-03	2.76E-05	1.90E-05	3.05E-05	1.74E-05	1.3651E-03
520053.34	4259105.75	27694.86895	7.23313	0.23162	11.83937	0.22392	1.27E-03	2.96E-04	8.28E-06	4.85E-04	7.69E-06	2.0675E-03
520043.01	4259095.77	27688.06454	5.09162	0.23346	7.00506	0.2271	1.27E-03	2.08E-04	8.35E-06	2.87E-04	7.80E-06	1.7817E-03
520600.74	4258221.08	27682.22474	0.13399	0.17902	0.13301	0.18695	1.27E-03	5.49E-06	6.40E-06	5.45E-06	6.42E-06	1.2938E-03
520584.59	4258174.11	27676.41057	0.13448	0.19078	0.13533	0.20055	1.27E-03	5.51E-06	6.82E-06	5.54E-06	6.89E-06	1.2945E-03
520613.06	4258306.46	27673.04476	0.13747	0.16623	0.13644	0.17408	1.27E-03	5.63E-06	5.95E-06	5.59E-06	5.98E-06	1.2927E-03
519940.03	4258834.84	27663.95346	0.71342	0.44753	0.78843	0.4322	1.27E-03	2.92E-05	1.60E-05	3.23E-05	1.48E-05	1.3615E-03
519958.3	4258956.71	27652.91168	1.03445	0.30348	1.14996	0.29979	1.27E-03	4.24E-05	1.09E-05	4.71E-05	1.03E-05	1.3792E-03
520610.3	4258408.81	27646.01308	0.14598	0.16118	0.14288	0.16673	1.27E-03	5.98E-06	5.77E-06	5.85E-06	5.79E-06	1.2917E-03
520158.65	4258222.57	27636.98135	0.21487	3.58758	0.21764	4.10158	1.27E-03	8.80E-06	1.28E-04	8.91E-06	1.41E-04	1.5548E-03
519940.49	4258860.07	27635.17538	0.74811	0.40804	0.82671	0.39653	1.27E-03	3.06E-05	1.46E-05	3.38E-05	1.36E-05	1.3605E-03
520613.93	4258829.81	27630.67172	0.16938	0.16864	0.16374	0.17208	1.27E-03	6.94E-06	4.18E-06	6.70E-06	4.16E-06	1.2896E-03
520614.34	4258341.83	27566.58129	0.13979	0.16307	0.13795	0.17115	1.26E-03	5.72E-06	5.83E-06	5.65E-06	5.88E-06	1.2878E-03
520634.33	4258709.28	27564.87933	0.15016	0.12722	0.14467	0.13203	1.26E-03	6.15E-06	4.55E-06	5.92E-06	4.53E-06	1.2858E-03
520109.49	4258292.41	27563.92643	0.25039	10.11263	0.25855	11.69129	1.26E-03	1.03E-05	3.62E-04	1.06E-05	4.02E-04	2.0494E-03
520237.21	4258142.81	27537.48385	0.18571	1.45586	0.19313	1.60058	1.26E-03	7.60E-06	5.21E-05	7.91E-06	5.49E-05	1.3859E-03
520613.99	4258366.77	27530.23864	0.14176	0.16155	0.13923	0.16942	1.26E-03	5.80E-06	5.78E-06	5.70E-06	5.82E-06	1.2861E-03
520617.51	4258821.26	27526.94163	0.16675	0.11722	0.16117	0.12139	1.26E-03	6.83E-06	4.19E-06	6.60E-06	4.17E-06	1.2847E-03
520595.42	4258198.77	27516.13011	0.13363	0.18284	0.13331	0.19155	1.26E-03	5.47E-06	6.54E-06	5.46E-06	6.58E-06	1.2864E-03
520632.33	4258761.93	27506.56169	0.15473	0.12139	0.14909	0.12578	1.26E-03	6.34E-06	4.34E-06	6.10E-06	4.32E-06	1.2830E-03
520019.6	4258550.53	27459.82534	0.68419	2.97292	0.80953	2.51846	1.26E-03	2.80E-05	1.06E-04	3.31E-05	8.65E-05	1.5138E-03
520608.47	4258429.88	27458.23525	0.148	0.16054	0.14047	0.16817	1.26E-03	6.06E-06	5.74E-06	5.92E-06	5.77E-06	1.2832E-03
520057.08	4258415.76	27448.96678	0.36667	11.88426	0.39541	7.52444	1.26E-03	1.50E-05	4.25E-04	1.62E-05	2.58E-04	1.9739E-03
520599.75	4258210.64	27437.19612	0.13339	0.17981	0.13263	0.18802	1.26E-03	5.46E-06	6.43E-06	5.43E-06	6.45E-06	1.2825E-03
520578.69	4258916.87	27406.65312	0.19699	0.11197	0.19038	0.11677	1.26E-03	8.07E-06	4.01E-06	7.79E-06	4.01E-06	1.2812E-03
520276.46	4258112.93	27402.68904	0.17588	1.04859	0.18549	1.13968	1.26E-03	7.20E-06	3.75E-05	7.59E-06	3.91E-05	1.3486E-03
520621.1	4258812.7	27396.93169	0.16416	0.11755	0.1586	0.12166	1.26E-03	6.72E-06	4.20E-06	6.49E-06	4.18E-06	1.2785E-03
520590.99	4258891.76	27365.80788	0.18728	0.1129	0.18121	0.11751	1.26E-03	7.67E-06	4.04E-06	7.42E-06	4.03E-06	1.2787E-03
519959.92	4258967.37	27361.92278	1.06385	0.29419	1.18396	0.29085	1.26E-03	4.36E-05	1.05E-05	4.85E-05	9.99E-06	1.3679E-03
520548.37	4258969.45	27354.25117	0.22244	0.1114	0.21427	0.11631	1.25E-03	9.11E-06	3.98E-06	8.77E-06	3.99E-06	1.2808E-03
520148.83	4258232.53	27319.36723	0.21835	4.1977	0.22112	4.84025	1.25E-03	8.94E-06	1.50E-04	9.05E-06	1.66E-04	1.5877E-03
519939.41	4258809.25	27297.74038	0.6738	0.49127	0.7433	0.47172	1.25E-03	2.76E-05	1.76E-05	3.04E-05	1.62E-05	1.3442E-03
519977.12	4258646.05	27291.23633	0.64282	1.16867	0.7375	1.08375	1.25E-03	2.63E-05	4.18E-05	3.02E-05	3.72E-05	1.3876E-03
519967.12	4258673.87	27285.32447	0.63489	0.96834	0.72391	0.9046	1.25E-03	2.60E-05	3.44E-05	2.96E-05	3.11E-05	1.3731E-03
520613.79	4258392.11	27274.69901	0.14355	0.16034	0.1406	0.16787	1.25E-03	5.88E-06	5.74E-06	5.76E-06	5.76E-06	1.2744E-03
520084.98	4259137.18	27268.55673	15.37999	0.22491	18.93128	0.21303	1.25E-03	6.30E-04	8.04E-06	7.75E-04	7.31E-06	2.6712E-03
519943.46	4258770.77	27265.29979	0.64668	0.57743	0.71605	0.55047	1.25E-03	2.65E-05	2.07E-05	2.93E-05	1.89E-05	1.3462E-03
520247.03	4258132.84	27261.20776	0.18202	1.33526	0.19002	1.46246	1.25E-03	7.45E-06	4.78E-05	7.78E-06	5.02E-05	1.3639E-03
519940.52	4258884.25	27259.08204	0.77518	0.37372	0.8546	0.36522	1.25E-03	3.17E-05	1.34E-05	3.50E-05	1.25E-05	1.3432E-03
520636.62	4258727.75	27252.83194	0.15032	0.12418	0.14488	0.12894	1.25E-03	6.15E-06	4.44E-06	5.93E-06	4.43E-06	1.2713E-03
519946.47	4258753.92	27243.4916	0.6377	0.62485	0.71251	0.59313	1.25E-03	2.61E-05	2.23E-05	2.92E-05	2.04E-05	1.3479E-03
520624.68	4258804.14	27239.18476	0.16161	0.11785	0.15608	0.1219	1.25E-03	6.62E-06	4.22E-06	6.39E-06	4.18E-06	1.2711E-03
520557.84	4258955.52	27224.22289	0.21404	0.11114	0.20637	0.11603	1.25E-03	8.76E-06	3.98E-06	8.45E-06	3.98E-06	1.2742E-03
520594.4	4258188.32	27208.81692	0.133	0.18362	0.13304	0.19261	1.25E-03	5.45E-06	6.57E-06	5.45E-06	6.61E-06	1.2724E-03
519949.36	4258736.79	27142.21194	0.63057	0.67632	0.70474	0.64095	1.25E-03	2.58E-05	2.42E-05	2.89E-05	2.20E-05	1.3461E-03
520635.94	4258753.3	27098.16987	0.15234	0.12131	0.14681	0.12579	1.24E-03	6.24E-06	4.34E-06	6.01E-06	4.32E-06	1.2641E-03
520534.39	4258995.25	27088.61155	0.23539	0.11092	0.22707	0.11577	1.24E-03	9.66E-06	3.97E-06	9.30E-06	3.97E-06	1.2697E-03
520567.49	4258941.52	27082.24116	0.20609	0.11091	0.19892	0.11576	1.24E-03	8.44E-06	3.97E-06	8.14E-06	3.97E-06	1.2670E-03
519960.75	4258691.89	27068.38764	0.62655	0.86139	0.70889	0.8093	1.24E-03	2.57E-05	3.08E-05	2.90E-05	2.78E-05	1.3551E-03
520628.26	4258795.59	27048.53939	0.15911	0.11812	0.15361	0.12214	1.24E-03	6.51E-06	4.22E-06	6.29E-06	4.19E-06	1.2622E-03
520119.34	4258272.44	27031.18079	0.23713	7.68679	0.24286	9.04061	1.24E-03	9.71E-06	2.75E-04	9.94E-06	3.10E-04	1.8451E-03
520604.84	4258472.09	27006.86845	0.1517	0.15928	0.14744	0.16713	1.24E-03	6.21E-06	5.70E-06	6.04E-06	5.74E-06	1.2627E-03
520544.02	4258881.26	26991.85409	0.22659	0.1107	0.21819	0.11554	1.24E-03	9.28E-06	3.96E-06	8.93E-06	3.97E-06	1.2645E-03
520009.69	4258569.96	26980.96469	0.67937	2.32234	0.81052	2.02174	1.24E-03	2.78E-05	8.31E-05	3.32E-05	6.94E-05	1.4513E-03
520095.31	4259147.99	26975.83372	12.42387	0.22163	11.55381	0.20878	1.24E-03	5.09E-04	7.93E-06	4.73E-04	7.17E-06	2.2344E-03
520256.85	4258127.87	26962.40632	0.17839	1.22892	0.18685	1.34172	1.24E-03	7.30E-06	4.40E-05	7.65E-06	4.61E-05	1.3420E-03
519936.82	4258851.23	26933.1338	0.70616	0.41706	0.77868	0.40417	1.24E-03	2.89E-05	1.49E-05	3.19E-05	1.39E-05	1.3252E-03
520043.44	4259105.77	26924.54648	5.20521	0.22732	7.14831	0.22113	1.24E-03	2.13E-04	8.13E-06	2.93E-04	7.59E-06	1.7568E-03
520617.71	4258350.66	26924.30707	0.13923	0.16064	0.13707	0.16852	1.24E-03	5.70E-06	5.75E-06	5.61E-06	5.79E-06	1.2581E-03
520637.83	4258700.92	26918.43397	0.14806	0.12728	0.14267	0.13193	1.23E-03	6.06E-06	5.84E-06	4.55E-06	4.53E-06	1.2560E-03
520613.22	4258256.46	26898.23935	0.13318	0.17007	0.13203	0.17702	1.23E-03	5.45E-06	6.08E-06	5.41E-06	6.08E-06	1.2571E-03
520593.45	4258177.9	26882.95095	0.13236	0.18435	0.13276	0.19361	1.23E-03	5.42E-06	6.59E-06	5.44E-06	6.65E-06	1.2574E-03
520139.01	4258242.5	26877.61037	0.22159	5.00612	0.22482	5.80904	1.23E-03	9.07E-06	1.79E-04	9.21E-06	1.99E-04	1.6299E-03
520589.65	4258902.32	26874.58234	0.18862	0.11154	0.1825	0.11616	1.23E-03	7.72E-06	3.99E-06	7.47E-06	3.99E-06	1.2561E-03
520053.36	4259115.75	26867.38762	7.31064	0.22539	11.90904	0.21798	1.23E-03	2.99E-04	8.06E-06	4.88E-04	7.48E-06	2.0351E-03
520611.88	4258245.87	26863.19484	0.13272	0.17131	0.13148	0.17833	1.23E-03	5.43E-06	6.13E-06	5.38E-06	6.12E-06	1.2555E-03
520577.34	4258927.43	26855.53143	0.19827	0.11064	0.19158	0.1154	1.23E-03	8.12E-06	3.96E-06	7.84E-06	3.96E-06	1.2560E-03
520039.4	4258501.95	26844.93713	0.58784	5.41337	0.65921	4.24396	1.23E-03	2.41E-05	1.94E-04	2.70E-05	1.46E-04	1.6220E-03
520631.84	4258787.03	26822.2246	0.15665	0.11834	0.15119	0.12236	1.23E-03	6.41E-06	4.23E-06	6.19E-06	4.20E-06	1.2516E-03
520197.96	4258172.69	26815.868	0.1937	2.16097	0.19763	2.41194	1.23E-03	7.93E-06	7.73E-05	8.09E-06	8.28E-05	1.4064E-03
520188.14	4258182.66	26807.67916	0.1971	2.41987	0.20038	2.71551	1.23E-03	8.07E-06	8.66E-05	8.20E-06	9.32E-05	1.4259E-03
520617.39	4258375.69	26806.6119	0.14112	0.15912	0.13834	0.16673	1.23E-03	5.78E-06	5.69E-06	5.66E-06	5.72E-06	1.2527E-03
520207.78	4258162.72	26783.87106	0.19035	1.9425	0.19495	2.15911	1.23E-03	7.79E-06	6.95E-05	7.98E-06	7.41E-05	1.3882E-03
519936.33	4258825.92	26778.66908	0.67124	0.45685	0.73933	0.44009	1.23E-03	2.75E-05	1.63E-05	3.03E-05	1.51E-05	1.3178E-03
520610.66	4258235.33	26759.58735	0.13219	0.17247	0.13096	0.17962	1.23E-03	5.41E-06	6.17E-06	5.36E-06	6.17E-06	1.2508E-03
519952.12	4258719.32	26734.78615	0.61744	0.7331	0.69152	0.69332	1.23E-03	2.53E-05	2.62E-05	2.83E-05	2.38E-05	1.3302E-03
520613.77	4258417.94	26726.20483	0.14516	0.15857	0.1419	0.16599	1.23E-03	5.94E-06	5.67E-06	5.81E-06	5.70E-06	1.2493E-03
520608.24	4258455.15	26724.92555	0.14944	0.1587	0.14559	0.16643	1.23E-03	6.12E-06	5.68E-06	5.96E-06	5.71E-06	1.2496E-03
519942.96	4258920.4	26720.8677	0.83249	0.33143	0.91714	0.32608	1.23E-03	3.41E-05	1.19E-05	3.76E-05	1.12E-05	1.3206E-03
520178.32	4258192.63	26704.01499	0.20038	2.73362	0.2032	3.08093	1.23E-03	8.20E-06	9.78E-05

520109.52	4258282.41	26236.21276	0.23973	10.15774	0.24714	11.75557	1.20E-03	9.82E-06	3.63E-04	1.01E-05	4.04E-04	1.9905E-03
520620.83	4258837.28	26230.64942	0.1658	0.11381	0.16047	0.11791	1.20E-03	6.79E-06	4.07E-06	6.57E-06	4.05E-06	1.2249E-03
520552.76	4258977.64	26216.3725	0.21871	0.10911	0.21079	0.11385	1.20E-03	8.95E-06	3.90E-06	8.63E-06	3.91E-06	1.2282E-03
519935.68	4258800.24	26206.34413	0.63136	0.50032	0.69399	0.47959	1.20E-03	2.59E-05	1.79E-05	2.84E-05	1.65E-05	1.2909E-03
520639.01	4258769.92	26190.85145	0.15182	0.11828	0.14642	0.12243	1.20E-03	6.22E-06	4.23E-06	6.00E-06	4.20E-06	1.2222E-03
520641.33	4258692.55	26181.68131	0.14593	0.12729	0.14062	0.13177	1.20E-03	5.97E-06	4.55E-06	5.76E-06	4.52E-06	1.2220E-03
520608.22	4258480.96	26180.95342	0.15061	0.15697	0.14606	0.16462	1.20E-03	6.17E-06	5.61E-06	5.98E-06	5.65E-06	1.2245E-03
519933.15	4258842.38	26173.25517	0.66643	0.4258	0.73265	0.41156	1.20E-03	2.73E-05	1.52E-05	3.00E-05	1.41E-05	1.2874E-03
520095.33	4259157.99	26143.8389	12.33657	0.21597	11.51765	0.20358	1.20E-03	5.05E-04	7.72E-06	4.72E-04	6.99E-06	2.1908E-03
520624.38	4258828.79	26143.57436	0.16331	0.11414	0.158	0.11819	1.20E-03	6.69E-06	4.08E-06	6.47E-06	4.06E-06	1.2207E-03
520643.17	4258736.05	26142.53598	0.14776	0.12124	0.14255	0.12579	1.20E-03	6.05E-06	4.34E-06	5.84E-06	4.32E-06	1.2199E-03
520043.46	4259115.77	26127.53376	5.24457	0.22125	7.17551	0.21528	1.20E-03	2.15E-04	7.91E-06	2.94E-04	7.39E-06	1.7225E-03
520247.06	4258122.84	26119.54325	0.17683	1.13794	0.18406	1.46439	1.20E-03	7.24E-06	4.79E-05	7.54E-06	5.03E-05	1.3112E-03
519989.85	4258608.84	26111.20312	0.6371	1.51554	0.74521	1.38437	1.20E-03	2.61E-05	5.42E-05	3.05E-05	4.75E-05	1.3563E-03
520055.26	4259127.23	26076.2879	7.91443	0.21933	13.65884	0.21194	1.20E-03	3.24E-04	7.85E-06	5.59E-04	7.28E-06	2.0947E-03
520620.78	4258384.62	26074.73393	0.14043	0.15699	0.13749	0.16433	1.20E-03	5.75E-06	5.62E-06	5.63E-06	5.64E-06	1.2188E-03
519967.12	4258664.6	26069.13946	0.60798	0.99823	0.69188	0.93199	1.20E-03	2.49E-05	3.57E-05	2.83E-05	3.20E-05	1.3169E-03
519932.94	4258865.97	26061.02349	0.6913	0.39106	0.75969	0.38009	1.20E-03	2.83E-05	1.40E-05	3.11E-05	1.30E-05	1.2821E-03
520602.3	4258181.69	26056.68456	0.18021	0.1783	0.19018	0.18702	1.20E-03	5.33E-06	6.38E-06	5.33E-06	6.42E-06	1.2189E-03
520627.94	4258820.29	26034.20002	0.16083	0.11451	0.15557	0.11848	1.19E-03	6.59E-06	4.10E-06	6.37E-06	4.07E-06	1.2155E-03
520148.86	4258222.53	26029.34724	0.21018	4.20561	0.21247	4.84596	1.19E-03	8.61E-06	1.50E-04	8.70E-06	1.66E-04	1.5283E-03
520586	4258923.84	25993.60261	0.19186	0.10907	0.18557	0.11368	1.19E-03	7.86E-06	3.90E-06	7.60E-06	3.90E-06	1.2158E-03
520643.91	4258710.34	25992.23429	0.14584	0.12409	0.14067	0.12866	1.19E-03	5.97E-06	4.44E-06	5.76E-06	4.42E-06	1.2131E-03
520598.1	4258898.82	25963.70019	0.18275	0.11	0.17697	0.11445	1.19E-03	7.48E-06	3.93E-06	7.25E-06	3.93E-06	1.2138E-03
520631.5	4258811.8	25900.16578	0.15839	0.11485	0.15317	0.11876	1.19E-03	6.49E-06	4.11E-06	6.27E-06	4.08E-06	1.2092E-03
520642.59	4258761.36	25894.41089	0.1496	0.11836	0.14431	0.1226	1.19E-03	6.13E-06	4.23E-06	5.91E-06	4.21E-06	1.2085E-03
519939.82	4258762.01	25854.67519	0.60233	0.58525	0.66561	0.55764	1.19E-03	2.47E-05	2.09E-05	2.73E-05	1.91E-05	1.2782E-03
520556.88	4258112.87	25843.47367	0.17344	1.23147	0.1812	1.34313	1.19E-03	7.10E-06	4.40E-05	7.42E-06	4.61E-05	1.2903E-03
519933.52	4258891.5	25837.87121	0.72212	0.35804	0.7924	0.35007	1.19E-03	2.96E-05	1.28E-05	3.24E-05	1.20E-05	1.2722E-03
519932.63	4258817	25834.67934	0.6313	0.46541	0.69247	0.44751	1.19E-03	2.58E-05	1.66E-05	2.84E-05	1.54E-05	1.2715E-03
520611.58	4258463.91	25826.45038	0.14843	0.15633	0.14432	0.16394	1.18E-03	6.08E-06	5.59E-06	5.91E-06	5.63E-06	1.2081E-03
520565.36	4258962.41	25805.72147	0.20791	0.10827	0.20063	0.11296	1.18E-03	8.51E-06	3.87E-06	8.21E-06	3.88E-06	1.2084E-03
520617.25	4258427.06	25803.36852	0.1443	0.15597	0.14086	0.16331	1.18E-03	5.91E-06	5.58E-06	5.77E-06	5.61E-06	1.2067E-03
519977.12	4258636.77	25776.8955	0.61172	1.1995	0.7	1.11302	1.18E-03	2.50E-05	4.29E-05	2.87E-05	3.82E-05	1.3174E-03
519954.29	4258700.45	25758.59544	0.59322	0.79508	0.66501	0.7504	1.18E-03	2.43E-05	2.84E-05	2.72E-05	2.58E-05	1.2875E-03
520635.05	4258803.31	25739.6893	0.15599	0.11517	0.15082	0.11902	1.18E-03	6.39E-06	4.12E-06	6.18E-06	4.09E-06	1.2017E-03
520119.37	4258262.44	25732.71182	0.22745	7.70584	0.23266	9.04117	1.18E-03	9.31E-06	2.76E-04	9.53E-06	3.10E-04	1.7854E-03
520029.48	4258521.39	25713.45453	0.61609	3.97682	0.70406	3.25444	1.18E-03	2.52E-05	1.42E-04	2.88E-05	1.12E-04	1.4877E-03
519942.8	4258745.07	25702.12254	0.59329	0.63163	0.65944	0.60008	1.18E-03	2.43E-05	2.26E-05	2.70E-05	2.06E-05	1.2736E-03
520624.83	4258343.51	25700.07873	0.13623	0.15716	0.13411	0.16481	1.18E-03	5.58E-06	5.62E-06	5.49E-06	5.66E-06	1.2014E-03
520620.79	4258249.68	25660.77268	0.13029	0.1659	0.12908	0.17251	1.18E-03	5.33E-06	5.93E-06	5.29E-06	5.92E-06	1.1997E-03
520574.94	4258948.44	25645.84751	0.2003	0.10802	0.19349	0.11267	1.18E-03	8.20E-06	3.86E-06	7.92E-06	3.87E-06	1.2004E-03
520619.5	4258239.12	25637.30293	0.12984	0.16703	0.12856	0.17373	1.18E-03	5.32E-06	5.97E-06	5.26E-06	5.96E-06	1.1987E-03
520622.2	4258260.3	25628.31896	0.13069	0.16458	0.1296	0.17118	1.18E-03	5.35E-06	5.89E-06	5.31E-06	5.88E-06	1.1982E-03
520139.04	4258232.5	25627.03687	0.21318	5.01367	0.2159	5.82424	1.18E-03	8.73E-06	1.79E-04	8.84E-06	2.00E-04	1.5726E-03
520625.51	4258319.42	25625.67419	0.13431	0.15816	0.13281	0.16579	1.18E-03	5.50E-06	5.66E-06	5.44E-06	5.69E-06	1.1979E-03
520197.99	4258162.69	25621.2753	0.18737	2.16468	0.19063	2.41454	1.18E-03	7.67E-06	7.74E-05	7.81E-06	8.29E-05	1.3513E-03
520624.44	4258368.34	25616.98366	0.13804	0.15602	0.13533	0.1634	1.18E-03	5.65E-06	5.58E-06	5.54E-06	5.61E-06	1.1976E-03
520620.66	4258410.15	25615.82311	0.14202	0.15547	0.13877	0.16266	1.18E-03	5.81E-06	5.56E-06	5.68E-06	5.58E-06	1.1978E-03
520551.75	4258988.06	25609.92361	0.2198	0.10786	0.21183	0.1125	1.17E-03	9.00E-06	3.86E-06	8.67E-06	3.86E-06	1.2003E-03
520188.17	4258172.66	25605.20002	0.19051	2.42372	0.19317	2.71882	1.17E-03	7.80E-06	8.67E-05	7.91E-06	9.33E-05	1.3705E-03
520646.78	4258727.42	25602.55578	0.14553	0.12127	0.14051	0.12577	1.17E-03	5.96E-06	4.34E-06	5.75E-06	4.32E-06	1.1950E-03
520613.37	4258206.46	25600.10261	0.12906	0.17121	0.12809	0.17875	1.17E-03	5.28E-06	6.12E-06	5.24E-06	6.14E-06	1.1973E-03
520085.43	4259158.01	25591.79397	16.40962	0.21316	18.29117	0.2021	1.17E-03	6.72E-04	7.62E-06	7.49E-04	6.94E-06	2.6095E-03
520596.15	4258009.64	25577.70311	0.18441	0.1088	0.17856	0.11327	1.17E-03	7.55E-06	3.89E-06	7.31E-06	3.89E-06	1.1961E-03
520207.81	4258152.72	25575.853	0.18419	1.94677	0.18815	2.15986	1.17E-03	7.54E-06	6.96E-05	7.70E-06	7.42E-05	1.3324E-03
520618.3	4258228.59	25560.0225	0.12936	0.16803	0.12808	0.17488	1.17E-03	5.30E-06	6.01E-06	5.24E-06	6.00E-06	1.1952E-03
520638.61	4258794.82	25546.36443	0.15364	0.11539	0.14849	0.11922	1.17E-03	6.29E-06	4.13E-06	6.08E-06	4.09E-06	1.1926E-03
520039.36	4258492.26	25512.17175	0.5417	5.45468	0.60135	4.27519	1.17E-03	2.22E-05	1.95E-04	2.46E-05	1.47E-04	1.5591E-03
520217.63	4258142.75	25511.03479	0.18111	1.76051	0.18572	1.94583	1.17E-03	7.42E-06	6.30E-05	7.60E-06	6.68E-05	1.3152E-03
520042.98	4258473.67	25501.90201	0.48518	6.2486	0.53192	4.74921	1.17E-03	1.99E-05	2.24E-04	2.18E-05	1.63E-04	1.5982E-03
520646.17	4258752.8	25501.63933	0.14736	0.1184	0.14222	0.1227	1.17E-03	6.03E-06	4.24E-06	5.82E-06	4.21E-06	1.1903E-03
520178.35	4258182.63	25495.533	0.19353	2.73799	0.19577	3.08464	1.17E-03	7.92E-06	9.79E-05	8.02E-06	1.06E-04	1.3895E-03
520561.49	4258974.02	25467.23512	0.21125	0.10755	0.20378	0.11218	1.17E-03	8.65E-06	3.85E-06	8.34E-06	3.85E-06	1.1931E-03
520617.19	4258218.1	25448.23359	0.12887	0.16882	0.12766	0.17591	1.17E-03	5.28E-06	6.04E-06	5.23E-06	6.04E-06	1.1901E-03
520584.7	4258934.39	25441.95837	0.19295	0.10778	0.18659	0.11236	1.17E-03	7.90E-06	3.86E-06	7.64E-06	3.86E-06	1.1905E-03
520064.11	4258372.91	25425.2137	0.30089	19.68454	0.32213	9.93187	1.17E-03	1.23E-05	7.04E-04	1.32E-05	3.41E-04	2.2370E-03
520612.23	4258195.95	25417.13734	0.12856	0.17194	0.12784	0.17979	1.17E-03	5.26E-06	6.15E-06	5.23E-06	6.17E-06	1.1889E-03
520624.86	4258271.45	25409.95069	0.1308	0.16225	0.12975	0.16898	1.17E-03	5.36E-06	5.80E-06	5.31E-06	5.80E-06	1.1880E-03
519945.66	4258727.85	25399.92897	0.58154	0.682	0.64922	0.64699	1.17E-03	2.39E-05	2.44E-05	2.66E-05	2.22E-05	1.2624E-03
520045.36	4259127.25	25386.86661	5.60187	0.21537	7.80977	0.20939	1.16E-03	2.29E-04	7.70E-06	3.20E-04	7.19E-06	1.7287E-03
520227.45	4258132.78	25383.72452	0.17798	1.6007	0.18327	1.76192	1.16E-03	7.29E-06	5.73E-05	7.50E-06	6.05E-05	1.2971E-03
519929.15	4258856.83	25370.04645	0.6525	0.39951	0.71532	0.38725	1.16E-03	2.67E-05	1.43E-05	2.93E-05	1.33E-05	1.2475E-03
519935.82	4258927.45	25367.50145	0.77384	0.31869	0.84786	0.31375	1.16E-03	3.17E-05	1.14E-05	3.47E-05	1.08E-05	1.2524E-03
520168.53	4258192.6	25360.03364	0.19663	3.12028	0.19851	3.54089	1.16E-03	8.05E-06	1.12E-04	8.13E-06	1.22E-04	1.4128E-03
519929.49	4258833.54	25356.69185	0.62867	0.43413	0.68887	0.41865	1.16E-03	2.57E-05	1.55E-05	2.82E-05	1.44E-05	1.2472E-03
520055.28	4259137.23	25356.10449	7.98042	0.21378	13.76745	0.20664	1.16E-03	3.27E-04	7.65E-06	5.64E-04	7.09E-06	2.0685E-03
520095.34	4259167.99	25347.08696	12.22931	0.21055	11.4864	0.19859	1.16E-03	5.01E-04	7.53E-06	4.70E-04	6.82E-06	2.1482E-03
520624.18	4258393.54	25327.03218	0.13971	0.15473	0.13662	0.16186	1.16E-03	5.72E-06	5.53E-06	5.59E-06	5.56E-06	1.1844E-03
520099.7	4259292.38	25322.1174	0.24174	14.47958	0.25116	15.42029	1.16E-03	9.90E-06	5.18E-04	1.03E-05	5.29E-04	2.2292E-03
520626.19	4258282.04	25320.25051	0.13122	0.16073	0.1302	0.16763	1.16E-03	5.37E-06	5.75E-06	5.33E-06	5.75E-06	1.1839E-03
520642.16	4258786.32	25320.02337	0.15134	0.1155	0.1462	0.11935	1.16E-03	6.20E-06	4.13E-06	5.99E-06	4.10E-06	1.1820E-03
519929.76	4258882.44	25306.97459	0.68369	0.36591	0.74878	0.35686	1.16E-03	2.80E-05	1.31E-05	3.07E-05	1.23E-05	1.2450E-03
520647.55	4258701.64	25304.4457	0.14369	0.12409	0.13861	0.12849	1.16E-03	5.88E-06	4.44E-06	5.68E-06	4.41E-06	1.1813E-03
519937.54	4258938.15	25302.75208	0.79763	0.30901	0.87448	0.30467	1.16E-03	3.27E-05	1.11E-05	3.58E-05	1.05E-05	1.2508E-03
519940.09	4258949.2	25302.73606	0.82951	0.29987	0.91045	0.29605	1.16E-03	3.40E-05	1.07E-05	3.73E-05	1.02E-05	1.2530E-03
520237.27	4258122.81	25228.63696	0.17489	1.46182	0.18082	1.60356	1.16E-03	7.16E-06	5.23E-05	7.40E-06	5.51E-05	1.2793E-03
520611.16	4258185.48	25204.28491	0.12803	0.17262	0.12763	0.18077	1.16E-03	5.24E-06	6.17E-06	5.23E-06	6.21E-06	1.1792E-03
520627.65	4258292.67	25187.60335	0.1316	0.15903	0.13051	0.16615	1.16E-03	5.39E-06	5.69E-06	5.34E-06	5.70E-06	1.1777E-03
519941.85	4258959.92	25158.33892	0.8542	0.29095	0.9383	0.28755	1.15E-03	3.50E-05	1.04E-05	3.84E-05	9.87E-06	1.2479E-03
520594.67	4258920.26	25139.08736	0.18571	0.10755	0.17979	0.11202	1.15E-03	7.60E-06	3.85E-06	7.36E-06	3.85E-06	1.1760E-03
520158.71	4258202.57	25136.49035	0.19962	3.5994	0.20137	4.113	1.15E-03	8.17E-06	1.29E-04	8.24E-06	1.41E-04	1.4396E-03
519934.85	4258774.14	25130.72929	0.58619	0.54676	0.6438	0.52235	1.15E-03	2.40E-05	1.96E-05	2.64E-05	1.79E-05	1.2408E-03
520129.22	4258242.47	25129.41088	0.21596	6.12265	0.2195	7.16076	1.15E-03	8.84E-06	2.19E-04	8.99E-06	2.46E-04	1.6356E-03
520628.17	4258352.27	25110.41188	0.13569	0.15482	0.13325	0.16227	1.15E-03	5.56E-06	5.54E-06	5.46E-06	5.57E-06	1.1741E-03
520613.61	4258878.45	25095.14855	0.17207	0.10938	0.16681	0.11354	1.15E-03	7.05E-06	3.91E-06	6.83E-06	3.90E-06	1.1730E-03
520610.08	4258886.89	25093.87732	0.17459	0.10893	0.16922	0.11316	1.15E-03	7.15E-06	3.90E-06	6.93E-06	3.88E-06	1.1731E-03
520019.56	4258540.83	25079.88416	0.63263	3.02761	0.73768	2.56388	1.15E-03	2.59E-05	1.08E-04	3.02E-05	8.80E-05	1.4030E-03
520617.14	4258870.02	25079.15045	0.16958	0.1098	0.1644	0.11391	1.15E-03	6.94E-06	3.93E-06	6.73E-06	3.91E-06	1.1721E-03
520649.76	4258744.25	25065.4676	0.14517	0.11837	0.14019	0.1227	1.15E-03	5.94E-06	4.23E-06	5.74E-06	4.21E-06	1.1701E-03
520573.86	4258958.89	25060.86971	0.20115	0.10674	0.19428	0.11132	1.15E-03	8.24E-06	3.82E-06	7.95E-06	3.82E-06	1.1736E-03
519931.94	4258791.23	25053.74825	0.59102	0.50842	0.64768	0.48681	1.15E-03	2.42E-05	1.82E-05	2.65E-05	1.67E-05	1.2350E-03
520247.09	4258112.84	25044.22778	0.17184	1.34028	0.17834	1.46587	1.15E-03	7.04E-06	4.79E-05	7.30E-06	5.03E-05	1.2616E-03
520620.68	4258861.59	25036.79454	0.16713	0.11014	0.16196	0.11421	1.15E-03	6.84E-06	3.94E-06	6.63E-06	3.92E-06	1.1700E-03
520650.39	4258718.8	25022.01253	0.1434	0.12117	0.13849	0.12559	1.15E-03	5.87E-06	4.33E-06	5.67E-06	4.31E-06	1.1681E-03
520109.55	4258272.41	25015.16374	0.22984	10.18168	0.23659	11.81758	1.15E-03	9.41E-06	3.64E-04	9.69E-06	4.06E-04	1.9366E-03
520614.91	4258472.67	25010.46701	0.1474	0.15404	0.14302	0.16151	1.15E-03	6.04E-06	5.51E-06	5.86E-06	5.54E-06	1.1704E-03
520624.21	4258853.15	24990.60063	0.16471	0.11047	0.15956	0.1145	1.15E-03	6.74E-06	3.95E-06	6.53E-06	3.93E-06	1.1677E-03
519930.24	4258907.71	24973.60378	0.71111	0.31597	0.7774	0.32949	1.15E-03	2.91E-05	1.28E-05	3.18E-05	1.13E-05	1.2300E-03
520645.72	4258777.83	24959.52114	0.14894	0.11531	0.14379	0.11925	1.15E-03	6.10E-06	4.12E-06	5.89E-06	4.09E-06	1.1653E-03
520627.8	4258377.18	24948.3264	0.1374	0.15381	0.13448	0.16094	1.14E-03	5.63E-06	5.50E-06	5.51E-06	5.53E-06	1.1667E-03
520048.09	4258429.46	24926.58895	0.3737	7.68649	0.402	5.63349	1.14E-03	1.53E-05	2.75E-04	1.65E-05	1.93E-04	1.6437E-03
520620.72	4258436.19	24895.70684	0.14339	0.15353	0.13978	0.16078	1.14E-03	5.87E-06	5.49E-06	5.72E-06	5.52E-06	1.1648E-03
520583.48	4258944.9	24894.1607	0.19393	0.10653	0.1875	0.11106	1.14E-03	7.94E-06	3.81E-06	7.68E-06	3.81E-06	1.1653E-03
520560.44	4258984.46	24880.70023	0.21222	0.10632	0.20468	0.11086	1.14E-03	8.69E-06	3.80E-06	8.38E-06	3.81E-06	1.1662E-03
520631.27	4258836.28	24857.624	0.1599	0.11124	0.15488	0.11515	1.14E-03	6.55E-06	3.98E-06	6.34E-06	3.95E-06	1.1612E-03
520148.89	4258212.53	24834.37366	0.2025	4.21308	0.2044	4.85041	1.14E-03	8.29E-06	1.51E-04	8.37E-06	1.67E-04	1.4732E-03
519957.12	4258683.15	24832.72823	0.57349	0.86143	0.64606	0.80098	1.14E-03	2.35E-05	3.08E-05	2.65E-05	2.78E-05	1.2478E-03
519928.93	4258808.07	24831.65265	0.59318	0.47342	0.64844	0.45453	1.14E-03	2.43E-05	1.69E-05	2.65E-05	1.56E-05	1.2226E-03
519967.12	4258655.32	24827.07198	0.58213	1.02509	0.6592	0.9583	1.14E-03	2.38E-05	3.67E-05	2.70E-05	3.29E-05	1.2594E-03
520085.44	4259168.01	24826.1237	16.35577	0.20779	18.20768	0.19713	1.14E-03	6.70E-04	7.43E-06	7.45E-04	6.77E-06	2.5683E-03
519948.37	4258710.28	24785.83095	0.56826	0.73706	0.63402	0.69765	1.14E-03	2.33E-05	2.64E-05	2.60E-05	2.40E-05	1.2367E-03
520624.09	4258419.17	24775.38042	0.1412	0.15307	0.1378	0.16015	1.14E-03	5.78E-06	5.48E-06	5.64E-06	5.50E-06	1.1590E-03
520618.37	4258455.89	24753.761	0.14525	0.15334	0.14127	0.16073	1.14E-03	5.95E-06	5.48E-06	5.78E-06	5.52E-06	1.1584E-03
520570.23	4258970.4	24725.99414	0.2041	0.10599	0.19705	0.11052	1.13E-03	8.36E-06	3.79E-06	8.07E-06	3.79E-06	1.1584E-03
520634.8	4258827.85	24724.33141	0.15748	0.11145	0.15246	0.11531	1.13E-03	6.45E-06	3.99E-06	6.24E-06	3.96E-06	1.1549E-03
519926.01	4258873.38	24720.75305	0.64709	0.37373	0.70722	0.36353	1.13E-03	2.65E-05	1.34E-05	2.90E-05	1.25E-05	1.2154E-03
520045.38	4259317.25	24713.72123	5.64302	0.21001	7.85107	0.2042	1.13E-03	2.31E-04	7.51E-06	3.21E-04	7.01E-06	1.7008E-03
520009.65	4258560.27	24709.80679	0.63378	2.3707	0.74578	2.06469	1.13E-03	2.59E-05	8.48E-05	3.05E-05	7.09E-05	1.3458E-03
520604.88	4258906.02	24702.69683	0.17853	0.10728	0.17301	0.11159	1.13E-03	7.31E-06	3.84E-06	7.08E-06	3.83E-06	1.1554E-03
520593.3	4258930.83	24684.22782	0.18686	0.10631	0.18087	0.11075	1.13E-03	7.65E-06	3.80E-06	7.41E-06	3.80E-06	1.1551E-03
520055.71	4259147.23	24661.89529	8.13276	0.2086	14.31301	0.20162	1.13E-03	3.33E-04	7.46E-06	5.86E-04	6.92E-06	2.0648E-03
520649.28	4258769.34	24655.61212	0.14673	0.1153	0.14164	0.11931	1.13E-03	6.01E-06	4.12E-06	5.80E-06	4.10E-06	1.1512E-03
520638.33	4258819.41	24640.16403	0.15519	0.11183	0.15022	0.11562	1.13E-03	6.35E-06	4.00E-06	6.15E-06	3.97E-06	1.1509E-03
520622.35	4258210.3	24627.19276	0.1268	0.16582	0.1256	0.17282	1.13E-03	5.19E-06	5.93E-06	5.14E-06	5.93E-06	1.1520E-03
519925.35	4258847.69	24619.03331	0.61555	0.40764	0.67284	0.39412	1.13E-03	2.52E-05	1.46E-05	2.75E-05	1.35E-05	1.2103E-03
520653.34	4258735.69	24591.55001	0.14304	0.11831	0.13822	0.12265	1.13E-03	5.86E-06	4.23E-06	5.66E-06	4.21E-06	1.1482E-03
520651.19	4258692.94	24588.43318	0.1416	0.12394	0.13654	0.1282	1.13E-03	5.80E-06	4.43E-06	5.59E-06	4.40E-06	1.1483E-03
520095.36	4259177.99	24577.28283	12.18774	0.20529	11.44472	0.19376	1.13E-03	4.99E-04	7.34E-06	4.69E-04	6.65E-06	2.1092E-03
520119.4	4258252.44	24576.50676	0.21855	7.71638	0.22316	9.11409	1.13E-03	8.95E-06	2.76E-04	9.14E-06	3.13E-04	1.7345E-03
520627.58	4258402.46	24567.64966	0.13897	0.15243	0.13573	0.1594	1.13E-03	5.69E-06	5.45E-06	5.56E-06	5.47E-06	1.1493E-03
520039.32	4258482.56	24550.56962	0.50121	5.49239	0.55201	4.28891	1.13E-03	2.05E-05	1.96E-04	2.26E-05	1.47E-04	1.5132E-03
519926.52	4258898.73	24528.45038	0.67477	0.34333	0.73685	0.33587	1.13E-03	2.76E-05	1.23E-05	3.02E-05	1.15E-05	1.2069E-03
520054.1	4258397.01	24527.51633	0.32208	10.06846	0.34506	6.87415	1.13E-03	1.32E-05	3.60E-04	1.41E-05	2.36E-04	1.7487E-03
520628.33	4258242.9	24516.09981	0.12751	0.16182	0.12624	0.16813	1.12E-03	5.22E-06	5.79E-06	5.17E-06	5.77E-06	1.1467E-03
520641.86	4258810.98	24515.61659	0.15293	0.11224	0.14802	0.11596	1.12E-03	6.26E-06	4.01E-06	6.06E-06	3.98E-06	1.1450E-03
520631.5	4258361.03	24506.0456	0.15351	0.15263	0.1324	0.15984	1.12E-03	5.33E-06	5.46E-06	5.42E-06	5.49E-06	1.1462E-03
520627.08	4258232.35	24495.32882	0.12707	0.16287	0.12575	0.16927	1.12E-03	5.20E-06	5.83E-06	5.15

520045.81	4259147.25	24058.55565	5.72878	0.20501	8.04072	0.19931	1.10E-03	2.35E-04	7.33E-06	3.29E-04	6.84E-06	1.6817E-03
520656.39	4258752.35	24032.84248	0.14262	0.11551	0.13782	0.11964	1.10E-03	5.84E-06	4.13E-06	5.64E-06	4.11E-06	1.1223E-03
519922.79	4258889.74	24028.62931	0.64009	0.35055	0.69779	0.34207	1.10E-03	2.62E-05	1.25E-05	2.86E-05	1.17E-05	1.1814E-03
520158.75	4258192.57	24016.95309	0.19265	3.60439	0.19402	4.11604	1.10E-03	7.89E-06	1.29E-04	7.94E-06	1.41E-04	1.3879E-03
520578.97	4258966.78	24007.33836	0.19732	0.10448	0.19064	0.1089	1.10E-03	8.08E-06	3.74E-06	7.81E-06	3.74E-06	1.1248E-03
520129.25	4258232.47	24002.65574	0.20783	6.13214	0.21093	7.18204	1.10E-03	8.51E-06	2.19E-04	8.64E-06	2.47E-04	1.5842E-03
520049.63	4258408.85	23979.504	0.33415	8.19372	0.35782	5.94987	1.10E-03	1.37E-05	2.93E-04	1.47E-05	2.04E-04	1.6258E-03
520055.72	4259157.23	23962.05873	8.186	0.20341	14.40907	0.19667	1.10E-03	3.35E-04	7.28E-06	5.90E-04	6.75E-06	2.0385E-03
520621.67	4258464.56	23956.65913	0.14427	0.15115	0.14005	0.15842	1.10E-03	5.91E-06	5.41E-06	5.73E-06	5.44E-06	1.1216E-03
520627.53	4258428.19	23937.11718	0.14035	0.15067	0.13679	0.15767	1.10E-03	5.75E-06	5.39E-06	5.60E-06	5.41E-06	1.1203E-03
520652.46	4258785.68	23931.79361	0.1463	0.11275	0.14145	0.11646	1.10E-03	5.99E-06	4.03E-06	5.79E-06	4.00E-06	1.1178E-03
520635.94	425834.6.8	23908.87399	0.1327	0.15104	0.13024	0.15825	1.10E-03	5.43E-06	5.40E-06	5.33E-06	5.43E-06	1.1185E-03
520601.91	4258927.27	23899.05878	0.18099	0.10489	0.17534	0.10919	1.10E-03	7.41E-06	3.75E-06	7.18E-06	3.75E-06	1.1185E-03
520634.84	4258369.79	23890.23928	0.13447	0.15059	0.13157	0.15754	1.10E-03	5.51E-06	5.39E-06	5.39E-06	5.41E-06	1.1177E-03
520054.92	4258386.69	23886.61801	0.30613	10.47884	0.32744	7.09565	1.10E-03	1.25E-05	3.75E-04	1.34E-05	2.44E-04	1.7402E-03
520109.58	4258262.41	23874.45137	0.22059	10.20896	0.22682	11.8116	1.10E-03	9.03E-06	3.65E-04	9.29E-06	4.06E-04	1.8843E-03
520617.26	4258893.69	23866.47322	0.1704	0.10624	0.16529	0.11032	1.09E-03	6.98E-06	3.80E-06	6.77E-06	3.79E-06	1.1163E-03
519979.89	4258618.58	23865.46296	0.57997	1.298	0.66666	1.20137	1.09E-03	2.37E-05	4.64E-05	2.73E-05	4.12E-05	1.2336E-03
520620.91	4258884.98	23863.0545	0.16792	0.10666	0.16291	0.11069	1.09E-03	6.88E-06	3.82E-06	6.67E-06	3.80E-06	1.1160E-03
519928.21	4258782.23	23861.37885	0.55314	0.51518	0.60415	0.49321	1.09E-03	2.26E-05	1.84E-05	2.47E-05	1.69E-05	1.1775E-03
520095.38	4259187.99	23848.69627	12.09062	0.20029	11.40588	0.18916	1.09E-03	4.95E-04	7.16E-06	4.67E-04	6.49E-06	2.0698E-03
520624.55	4258876.26	23848.48276	0.16547	0.10709	0.16054	0.11106	1.09E-03	6.78E-06	3.83E-06	6.57E-06	3.81E-06	1.1151E-03
520029.44	4258511.69	23831.3498	0.56745	4.01668	0.63926	3.29541	1.09E-03	2.32E-05	1.44E-04	2.62E-05	1.13E-04	1.3995E-03
520628.2	4258867.55	23817.37588	0.16304	0.10749	0.15818	0.11141	1.09E-03	6.68E-06	3.84E-06	6.48E-06	3.82E-06	1.1135E-03
519921.56	4258838.55	23813.31155	0.5804	0.41533	0.6325	0.40068	1.09E-03	2.38E-05	1.49E-05	2.59E-05	1.38E-05	1.1708E-03
520630.98	4258411.39	23799.74963	0.1382	0.15013	0.13482	0.15698	1.09E-03	5.66E-06	5.37E-06	5.52E-06	5.39E-06	1.1138E-03
519931.08	4258765.04	23781.9357	0.54647	0.55303	0.59837	0.52853	1.09E-03	2.24E-05	1.98E-05	2.45E-05	1.81E-05	1.1759E-03
519925.23	4258799.15	23776.26634	0.55693	0.48058	0.60712	0.46098	1.09E-03	2.28E-05	1.72E-05	2.49E-05	1.58E-05	1.1715E-03
519957.12	4258673.87	23774.04112	0.55108	0.88625	0.61977	0.83301	1.09E-03	2.26E-05	3.17E-05	2.54E-05	2.86E-05	1.1989E-03
519950.71	425869.1.8	23771.34985	0.54647	0.79541	0.60925	0.75182	1.09E-03	2.24E-05	2.85E-05	2.49E-05	2.58E-05	1.1922E-03
520657.61	4258701.55	23767.39848	0.1393	0.12099	0.13453	0.12514	1.09E-03	5.70E-06	4.33E-06	5.51E-06	4.30E-06	1.1102E-03
520631.85	4258858.83	23766.97207	0.16065	0.10781	0.1558	0.11169	1.09E-03	6.58E-06	3.86E-06	6.38E-06	3.83E-06	1.1110E-03
519923.21	4258914.86	23736.79121	0.66493	0.33283	0.72381	0.31675	1.09E-03	2.72E-05	1.15E-05	2.96E-05	1.09E-05	1.1683E-03
520148.93	4258202.53	23730.70544	0.19531	4.21888	0.19684	4.85442	1.09E-03	8.00E-06	1.51E-04	8.06E-06	1.67E-04	1.4223E-03
520635.5	4258850.12	23711.04891	0.15827	0.10816	0.15346	0.11199	1.09E-03	6.48E-06	3.87E-06	6.28E-06	3.84E-06	1.1083E-03
520590.85	4258951.86	23659.68137	0.1887	0.10387	0.18254	0.10822	1.09E-03	7.73E-06	3.72E-06	7.47E-06	3.72E-06	1.1081E-03
520639.15	425844.1.4	23640.93291	0.15591	0.10856	0.15117	0.11233	1.08E-03	6.38E-06	3.88E-06	6.19E-06	3.86E-06	1.1049E-03
520631.33	4258214.14	23638.11284	0.12453	0.16075	0.1232	0.16723	1.08E-03	5.10E-06	5.75E-06	5.04E-06	5.74E-06	1.1061E-03
519941.95	4258718.91	23634.55212	0.53931	0.68578	0.5983	0.65103	1.08E-03	2.21E-05	2.45E-05	2.45E-05	2.24E-05	1.1778E-03
520659.94	4258743.86	23618.66812	0.14057	0.11546	0.13592	0.11962	1.08E-03	5.76E-06	4.13E-06	5.57E-06	4.11E-06	1.1031E-03
520064.89	4258352.61	23582.61859	0.27271	20.91151	0.29095	10.16797	1.08E-03	1.12E-05	7.48E-04	1.19E-05	3.49E-04	2.2021E-03
520634.53	4258394.85	23577.00431	0.13601	0.14943	0.13279	0.15619	1.08E-03	5.57E-06	5.34E-06	5.44E-06	5.36E-06	1.1034E-03
520630.06	4258203.59	23569.0063	0.12413	0.16152	0.12292	0.16826	1.08E-03	5.08E-06	5.78E-06	5.03E-06	5.78E-06	1.1030E-03
519922.15	4258815.84	23560.72294	0.55832	0.44895	0.60757	0.43161	1.08E-03	2.29E-05	1.61E-05	2.49E-05	1.48E-05	1.1595E-03
520642.8	4258832.68	23553.50163	0.15358	0.10889	0.14887	0.11259	1.08E-03	6.29E-06	3.89E-06	6.10E-06	3.87E-06	1.1007E-03
520660.51	4258718.58	23533.67206	0.13897	0.11817	0.13438	0.12236	1.08E-03	5.69E-06	4.23E-06	5.50E-06	4.20E-06	1.0993E-03
520577.8	4258977.27	23506.04596	0.19828	0.10335	0.19151	0.1077	1.08E-03	8.12E-06	3.70E-06	7.84E-06	3.70E-06	1.1018E-03
520612	4258913.08	23501.46164	0.17417	0.10466	0.16891	0.10881	1.08E-03	7.13E-06	3.74E-06	6.92E-06	3.74E-06	1.0997E-03
519919.07	4258880.76	23479.78503	0.60704	0.35768	0.66041	0.34812	1.08E-03	2.49E-05	1.28E-05	2.70E-05	1.20E-05	1.1538E-03
520600.58	4258937.82	23479.40125	0.18204	0.10371	0.1763	0.10799	1.08E-03	7.45E-06	3.71E-06	7.22E-06	3.71E-06	1.0993E-03
520207.88	4258132.72	23466.83534	0.17301	1.9515	0.17571	2.16402	1.08E-03	7.08E-06	6.98E-05	7.19E-06	7.43E-05	1.2350E-03
520628.88	4258193.07	23464.91045	0.12371	0.16217	0.12269	0.16921	1.08E-03	5.07E-06	5.80E-06	5.02E-06	5.81E-06	1.0982E-03
520635.85	4258236.11	23458.98373	0.12485	0.15781	0.12349	0.16389	1.08E-03	5.11E-06	5.64E-06	5.06E-06	5.63E-06	1.0977E-03
520198.06	4258142.69	23454.57795	0.17561	2.17096	0.17779	2.41705	1.08E-03	7.19E-06	7.77E-05	7.28E-06	8.30E-05	1.2513E-03
520119.43	4258242.44	23454.04248	0.21009	7.77303	0.23456	9.08695	1.08E-03	8.60E-06	2.77E-04	8.78E-06	3.12E-04	1.6821E-03
519967.12	4258646.05	23448.27507	0.55411	1.04994	0.62504	0.98265	1.08E-03	2.27E-05	3.76E-05	2.56E-05	3.37E-05	1.1953E-03
520646.45	4258823.97	23446.13559	0.15128	0.1092	0.1466	0.11284	1.08E-03	6.19E-06	3.91E-06	6.00E-06	3.87E-06	1.0956E-03
520634.63	4258225.57	23445.70361	0.12442	0.15877	0.12304	0.16494	1.08E-03	5.09E-06	5.68E-06	5.04E-06	5.66E-06	1.0971E-03
520639.88	4258305.41	23431.57207	0.12871	0.15131	0.12722	0.15835	1.07E-03	5.27E-06	5.41E-06	5.21E-06	5.44E-06	1.0963E-03
520637.17	4258246.68	23428.78758	0.12524	0.15669	0.12396	0.16274	1.07E-03	5.13E-06	5.60E-06	5.08E-06	5.59E-06	1.0963E-03
520217.7	4258122.75	23417.25371	0.17034	1.76529	0.17365	1.94858	1.07E-03	6.97E-06	6.31E-05	7.11E-06	6.69E-05	1.2185E-03
520188.24	4258152.66	23415.15872	0.17828	2.43115	0.17996	2.72115	1.07E-03	7.30E-06	8.70E-05	7.37E-06	9.34E-05	1.2693E-03
520045.82	4259157.25	23392.01788	5.78934	0.1999	8.0689	0.1944	1.07E-03	2.37E-04	7.15E-06	3.30E-04	6.67E-06	1.6544E-03
519918.5	4258855.26	23383.66091	0.57885	0.38871	0.62932	0.37622	1.07E-03	2.37E-05	1.39E-05	2.58E-05	1.29E-05	1.1491E-03
520085.48	4259188.01	23378.47815	16.19473	0.1977	18.02497	0.18778	1.07E-03	6.63E-04	7.07E-06	7.38E-04	6.45E-06	2.4872E-03
520139.11	425821.2.5	23375.36212	0.19784	5.02977	0.19983	5.83576	1.07E-03	8.10E-06	1.80E-04	8.18E-06	2.00E-04	1.4690E-03
520227.52	4258112.78	23347.50697	0.16773	1.60466	0.17165	1.76506	1.07E-03	6.87E-06	5.74E-05	7.03E-06	6.06E-05	1.2030E-03
520638.6	4258257.31	23344.28834	0.12558	0.15541	0.1244	0.1615	1.07E-03	5.14E-06	5.56E-06	5.09E-06	5.54E-06	1.0923E-03
520587.71	4258963.16	23338.3425	0.19099	0.10306	0.18467	0.10737	1.07E-03	7.82E-06	3.69E-06	7.56E-06	3.69E-06	1.0935E-03
520639.41	4258355.93	23322.97248	0.13211	0.14877	0.12936	0.15575	1.07E-03	5.41E-06	5.32E-06	5.30E-06	5.35E-06	1.0914E-03
520650.1	4258815.25	23316.32291	0.14901	0.10949	0.14435	0.11307	1.07E-03	6.10E-06	3.92E-06	5.91E-06	3.88E-06	1.0895E-03
519919.51	4258905.94	23315.0329	0.63215	0.32951	0.68711	0.32253	1.07E-03	2.59E-05	1.18E-05	2.81E-05	1.11E-05	1.1465E-03
520178.42	4258162.63	23310.2344	0.18087	2.74569	0.18221	3.08811	1.07E-03	7.41E-06	9.82E-05	7.46E-06	1.06E-04	1.2885E-03
520659.52	4258768.81	23297.36592	0.14199	0.11254	0.13722	0.11641	1.07E-03	5.81E-06	4.03E-06	5.62E-06	4.00E-06	1.0883E-03
520055.74	4259167.23	23282.08738	8.30476	0.19836	14.50856	0.19186	1.07E-03	3.40E-04	7.10E-06	5.94E-04	6.59E-06	2.0159E-03
520638.18	4258378.55	23269.19934	0.13382	0.1485	0.13075	0.15524	1.07E-03	5.48E-06	5.31E-06	5.35E-06	5.33E-06	1.0890E-03
520624.97	4258473.23	23231.3259	0.14326	0.14903	0.13879	0.15615	1.07E-03	5.87E-06	5.33E-06	5.68E-06	5.36E-06	1.0880E-03
520640.15	4258267.98	23224.05388	0.1259	0.15394	0.12478	0.16016	1.07E-03	5.15E-06	5.51E-06	5.11E-06	5.50E-06	1.0867E-03
520039.85	4258457.01	23223.5358	0.41853	5.66527	0.45334	4.42804	1.07E-03	1.71E-05	2.03E-04	1.86E-05	1.52E-04	1.4558E-03
520055.59	4258376.43	23199.71239	0.29136	10.82716	0.31116	7.27638	1.06E-03	1.19E-05	3.87E-04	1.27E-05	2.50E-04	1.7261E-03
520168.6	425817.2.6	23170.79373	0.1835	3.12981	0.1846	3.54394	1.06E-03	7.51E-06	1.12E-04	7.56E-06	1.22E-04	1.3117E-03
520663.5	4258735.36	23165.31515	0.13858	0.11535	0.13405	0.1195	1.06E-03	5.67E-06	4.13E-06	5.49E-06	4.10E-06	1.0822E-03
520663.75	4258806.54	23161.23668	0.14679	0.10984	0.14219	0.11336	1.06E-03	6.01E-06	3.93E-06	5.82E-06	3.89E-06	1.0822E-03
520610.51	425892.3.7	23132.32818	0.17533	0.10351	0.17001	0.10767	1.06E-03	7.18E-06	3.70E-06	6.96E-06	3.70E-06	1.0828E-03
520630.96	4258437.21	23117.84318	0.13946	0.14839	0.13574	0.15532	1.06E-03	5.71E-06	5.31E-06	5.56E-06	5.33E-06	1.0825E-03
520099.76	4258272.38	23114.46709	0.22224	14.5729	0.23022	15.63921	1.06E-03	9.10E-06	5.21E-04	9.43E-06	5.37E-04	2.1371E-03
520661.22	4258692.92	23101.89752	0.13736	0.12073	0.13255	0.12476	1.06E-03	5.62E-06	4.32E-06	5.43E-06	4.28E-06	1.0795E-03
520663.05	4258760.37	23046.75285	0.14009	0.11265	0.13545	0.11659	1.06E-03	5.74E-06	4.03E-06	5.55E-06	4.00E-06	1.0767E-03
520599.35	4258948.34	23031.11502	0.18295	0.10255	0.17713	0.10678	1.06E-03	7.49E-06	3.67E-06	7.25E-06	3.67E-06	1.0787E-03
520634.38	4258420.31	23030.79356	0.13739	0.14788	0.13388	0.15465	1.06E-03	5.63E-06	5.29E-06	5.48E-06	5.31E-06	1.0783E-03
520642.21	4258278.88	23019.32858	0.12609	0.15208	0.12494	0.1585	1.06E-03	5.16E-06	5.44E-06	5.12E-06	5.44E-06	1.0772E-03
520019.52	4258531.13	23005.26402	0.58549	3.07551	0.67301	2.60592	1.06E-03	2.40E-05	1.10E-04	2.76E-05	8.95E-05	1.3064E-03
520094.86	4259199.84	23004.63348	12.10895	0.19453	11.59905	0.1839	1.06E-03	4.96E-04	6.96E-06	4.75E-04	6.31E-06	2.0394E-03
519921.88	4258941.68	22991.56255	0.67611	0.2957	0.73513	0.29139	1.05E-03	2.77E-05	1.06E-05	3.01E-05	1.00E-05	1.1332E-03
519923.78	4258952.46	22977.75188	0.69736	0.28716	0.7587	0.28345	1.05E-03	2.86E-05	1.03E-05	3.11E-05	9.73E-06	1.1338E-03
520657.4	4258797.82	22976.58277	0.1446	0.11003	0.14002	0.11354	1.05E-03	5.92E-06	3.94E-06	5.73E-06	3.90E-06	1.0736E-03
520664.09	4258710.02	22960.30826	0.13701	0.1181	0.1325	0.12216	1.05E-03	5.61E-06	4.22E-06	5.43E-06	4.19E-06	1.0728E-03
520158.78	4258182.57	22957.32893	0.18603	3.61134	0.18711	4.11445	1.05E-03	7.62E-06	1.29E-04	7.66E-06	1.41E-04	1.3389E-03
519917.77	4258829.41	22954.30457	0.54688	0.42243	0.59423	0.40684	1.05E-03	2.24E-05	1.51E-05	2.43E-05	1.40E-05	1.1289E-03
520129.29	4258222.47	22952.70116	0.20021	6.14098	0.20295	7.19255	1.05E-03	8.20E-06	2.20E-04	8.31E-06	2.47E-04	1.5361E-03
520643.29	4258314.37	22936.25512	0.12823	0.1491	0.12649	0.1561	1.05E-03	5.25E-06	5.33E-06	5.18E-06	5.36E-06	1.0734E-03
519932.56	4258744.48	22933.19194	0.52127	0.5962	0.57447	0.56825	1.05E-03	2.13E-05	2.13E-05	2.35E-05	1.95E-05	1.1378E-03
520643.02	4258339.53	22894.76208	0.1299	0.14792	0.12751	0.1549	1.05E-03	5.32E-06	5.29E-06	5.22E-06	5.32E-06	1.0715E-03
519944.62	4258701.24	22891.14518	0.52384	0.73815	0.58109	0.69978	1.05E-03	2.14E-05	2.64E-05	2.38E-05	2.40E-05	1.1459E-03
519915.34	4258871.78	22882.31903	0.5755	0.36453	0.62433	0.35395	1.05E-03	2.36E-05	1.30E-05	2.56E-05	1.22E-05	1.1241E-03
520637.9	4258403.69	22875.89102	0.13528	0.14724	0.13193	0.15387	1.05E-03	5.54E-06	5.27E-06	5.40E-06	5.28E-06	1.0710E-03
520586.48	4258973.68	22859.6558	0.19188	0.10194	0.18545	0.10619	1.05E-03	7.86E-06	3.65E-06	7.59E-06	3.65E-06	1.0715E-03
519915.82	4258897.03	22847.78384	0.60084	0.33616	0.652	0.32821	1.05E-03	2.46E-05	1.20E-05	2.67E-05	1.13E-05	1.1228E-03
520109.62	4258252.41	22839.28243	0.21205	10.22686	0.21773	11.89476	1.05E-03	8.68E-06	3.66E-04	8.91E-06	4.08E-04	1.8396E-03
520661.05	4258789.11	22759.51189	0.14247	0.11009	0.1379	0.11364	1.04E-03	5.83E-06	3.94E-06	5.65E-06	3.90E-06	1.0635E-03
520609.13	4258934.28	22750.83403	0.17638	0.10237	0.17098	0.10651	1.04E-03	7.22E-06	3.66E-06	7.00E-06	3.66E-06	1.0653E-03
520642.89	4258365.05	22730.29148	0.13146	0.1468	0.12852	0.15352	1.04E-03	5.38E-06	5.25E-06	5.26E-06	5.27E-06	1.0640E-03
520624.29	4258900.84	22728.92019	0.1664	0.10365	0.16152	0.1076	1.04E-03	6.81E-06	3.71E-06	6.61E-06	3.69E-06	1.0636E-03
520627.91	4258892.19	22722.89265	0.16406	0.10404	0.15926	0.10793	1.04E-03	6.72E-06	3.72E-06	6.52E-06	3.71E-06	1.0631E-03
520045.84	4259167.25	22722.2932	5.83543	0.19496	8.09977	0.18965	1.04E-03	2.39E-04	6.97E-06	3.32E-04	6.51E-06	1.6265E-03
520631.53	4258883.54	22707.31096	0.16174	0.10444	0.15702	0.10828	1.04E-03	6.62E-06	3.74E-06	6.43E-06	3.72E-06	1.0623E-03
520148.96	4258192.53	22702.01557	0.18853	4.22502	0.18976	4.85807	1.04E-03	7.72E-06	1.51E-04	7.77E-06	1.67E-04	1.3749E-03
520596.45	4258959.54	22697.16735	0.18495	0.10168	0.17895	0.10589	1.04E-03	7.57E-06	3.64E-06	7.33E-06	3.64E-06	1.0635E-03
519957.12	425864.6.6	22684.43285	0.52919	0.90952	0.59369	0.85506	1.04E-03	2.17E-05	3.25E-05	2.43E-05	2.94E-05	1.1486E-03
520666.58	4258751.94	22682.96868	0.13811	0.11269	0.13363	0.11666	1.04E-03	5.65E-06	4.03E-06	5.47E-06	4.01E-06	1.0598E-03
519921.53	4258790.23	22682.78212	0.52272	0.48657	0.56813	0.4667	1.04E-03	2.14E-05	1.74E-05	2.33E-05	1.60E-05	1.1187E-03
520635.15	4258874.89	22682.54032	0.15943	0.10484	0.15479	0.10863	1.04E-03	6.53E-06	3.75E-06	6.34E-06	3.73E-06	1.0610E-03
520667.06	4258726.87	22680.44043	0.13666	0.11515	0.1322	0.11926	1.04E-03	5.60E-06	4.12E-06	5.41E-06	4.09E-06	1.0598E-03
520009.61	4258550.57	22660.34989	0.5914	2.41549	0.68775	2.10303	1.04E-03	2.42E-05	8.64E-05	2.82E-05	7.22E-05	1.2506E-03
520638.98	425820.7.4	22642.89764	0.12195	0.15663	0.12058	0.16289	1.04E-03	4.99E-06	5.60E-06	4.94E-06	5.59E-06	1.0595E-03
520638.77	4258866.24	22642.40584	0.15715	0.1052	0.15256	0.10894	1.04E-03	6.43E-06	3.76E-06	6.25E-06	3.74E-06	1.0590E-03
520641.51	4258387.31	22639.89524	0.13315	0.14641	0.12994	0.15298	1.04E-03	5.45E-06	5.24E-06	5.32E-06	5.25E-06	1.0599E-03
520637.13	4258217.98	22638.61406	0.12225	0.15587	0.12087	0.16186	1.04E-03	5.01E-06	5.58E-06	4.95E-06	5.56E-06	1.0597E-03
519914.74	4258846.2	22633.51397	0.54687	0.3957	0.59318	0.38216	1.04E-03	2.24E-05	1.42E-05	2.43E-05	1.31E-05	1.1123E-03
519924.47	4258773.22	22632.01581	0.5174	0.52067	0.56341	0.49873	1.04E-03	2.12E-05	1.86E-05	2.31E-05	1.71E-05	1.1183E-03
520055.76	4259177.23	22624.27858	8.37566	0.19355	14.61722	0.18727	1.04E-03	3.43E-04	6.92E-06	5.98E-04	6.43E-06	1.9927E-03
520637.74	4258196.86	22600.652	0.12159	0.15726	0.12033	0.16382	1.04E-03	4.98E-06	5.62E-06	4.93E-06	5.62E-06	1.0580E-03
519918.48	4258807	22590.30133	0.5256	0.45524	0.57041	0.43735	1.04E-03	2.15E-05	1.63E-05	2.34E-05	1.50E-05	1.1126E-03
520642.4	4258857.59	22588.68168	0.15489	0.10543	0.15029	0.10914	1.04E-03	6.34E-06	3.77E-06	6.15E-06	3.75E-06	1.0563E-03
519916.17	4258922	22588.48017	0.62325	0.31049	0.67579	0.30476	1.04E-03	2.55E-05	1.11E-05	2.77E-05	1.05E-05	1.1111E-03
520628.28	425848.1.9	22579.9256	0.14222	0.14702	0.13752	0.15394	1.04E-03	5.82E-06	5.26E-06	5.63E-06	5.28E-06	1.0579E-03
520084.96	4259199.85	22561.86465	16.23762	0.19199	18.48339	0.18254	1.04E-03	6.65E-04	6.87E-06	7.57E-04	6.27E-06	2.4698E-03
519935.46	4258727.38	22550.45274	0.51237	0.64005	0.56496	0.60942	1.03E-03	2.10E-05	2.29E-05	2.31E-05	2.09E-05	1.1225E-03
520646.02	4258848.94	22508.05849	0.15262	0.10573	0.14805	0.10939	1.03E-03	6.25E-06	3.78E-06	6.06E-06	3.76E-06	1.0525E-03
520656.13	4258366.21	22491.27721	0.27764	11.12471	0.29615	7.41828	1.03E-03	1.14E-05	3.98E-04	1.21E-05	2.55E-04	1.7079E-03
519999.69	4258570	22491.02055	0.58548	1.94363	0.68423	1.72989	1.03E-03	2.40E-05	6.95E-05	2.80E-05	5.94E-05	1.2127E-03
520207.91	4258122.72	22486.90932	0.16773	1.95411	0.16995	2.16398	1.03E-03	6.87E-06	6.99E-05	6.96E-06	7.43E-05	1.1897E-03
520198.09	4258132.69	22485.08716	0.17021	2.17317	0.1719	2.41859	1.03E-03	6.97E-06	7.77E-05	7.04E-06	8.30E-05	1.2063E-03
520664.69	4258780.39	22470.71961	0.14033	0.10998	0.13576	0.1136	1.03E-03	5.75E-06	3.93E-06	5.56E-06	3.90E-06	1.0501E-03
520217.73	4258112.75	22469.35682	0.16533	1.7671	0.16808	1.94961	1.03E-03	6.77E-06	6.32E-05	6.88E-06	6.69E-05	1.1746E-03
520649.64	4258840.29	22455.16805	0.15042	0.10626	0.14598	0.10984	1.03E-03	6.16E-06	3.80E-06	5.98E-06	3.77E-06	1.0499E-03
520643.35	425822.9.3	22448.93518	0.12222	0.154	0.12083	0.1598	1.03E-03	5.01E-06	5.51E-06	4.95E-06	5.49E-06	1.0509E-03
520119.47	4258232.44	22442.70689	0.20227	7.74917	0.20614	9.10789	1.03E-03	8.28E-06	2.

520650.45	4258307.3	21950.3704	0.12551	0.14602	0.12386	0.15268	1.01E-03	5.14E-06	5.22E-06	5.07E-06	5.24E-06	1.0277E-03
520084.98	4259209.85	21920.88291	16.0936	0.18749	18.37711	0.17836	1.01E-03	6.59E-04	6.71E-06	7.52E-04	6.12E-06	2.4299E-03
520040.84	4258422.46	21916.90013	0.33981	5.89923	0.36327	4.61787	1.01E-03	1.39E-05	2.11E-04	1.49E-05	1.59E-04	1.4038E-03
519914.74	4258948.73	21904.55547	0.63121	0.2851	0.68615	0.28105	1.00E-03	2.59E-05	1.02E-05	2.81E-05	9.65E-06	1.0788E-03
519938.24	4258709.97	21902.41614	0.49892	0.68741	0.55147	0.65321	1.00E-03	2.04E-05	2.46E-05	2.26E-05	2.24E-05	1.0949E-03
520109.65	4258242.41	21859.06159	0.204	10.25357	0.20927	11.87741	1.00E-03	8.35E-06	3.67E-04	8.57E-06	4.08E-04	1.7943E-03
520671.99	4258762.96	21858.35334	0.13628	0.10986	0.13187	0.11364	1.00E-03	5.58E-06	3.93E-06	5.40E-06	3.90E-06	1.0216E-03
519910.98	4258837.14	21838.90512	0.51646	0.40206	0.55867	0.3877	1.00E-03	2.11E-05	1.44E-05	2.29E-05	1.33E-05	1.0736E-03
520673.65	4258735.07	21816.69491	0.13428	0.11229	0.12997	0.11628	1.00E-03	5.50E-06	4.02E-06	5.32E-06	3.99E-06	1.0197E-03
519947.12	4258683.15	21806.38265	0.50295	0.79367	0.55946	0.75043	1.00E-03	2.06E-05	2.84E-05	2.29E-05	2.58E-05	1.0981E-03
520667.75	4258797.04	21779.9798	0.13981	0.10748	0.13547	0.11085	9.99E-04	5.72E-06	3.84E-06	5.55E-06	3.81E-06	1.0181E-03
519908.43	4258879.21	21774.47485	0.54216	0.34896	0.58575	0.33904	9.99E-04	2.22E-05	1.25E-05	2.40E-05	1.16E-05	1.0693E-03
519908.83	4258904.31	21748.91201	0.56513	0.3227	0.61077	0.31521	9.98E-04	2.31E-05	1.15E-05	2.50E-05	1.08E-05	1.0683E-03
520671.25	4258692.91	21734.91315	0.13327	0.11758	0.12871	0.12141	9.97E-04	5.46E-06	4.21E-06	5.27E-06	4.17E-06	1.0163E-03
520148.99	4258182.53	21734.13692	0.18211	4.23212	0.18311	4.85666	9.97E-04	7.46E-06	1.51E-04	7.50E-06	1.67E-04	1.3302E-03
520646.59	4258200.65	21722.36263	0.11947	0.15263	0.11806	0.15872	9.97E-04	4.89E-06	5.44E-06	4.83E-06	5.45E-06	1.0172E-03
520634.62	4258472.69	21715.82923	0.13941	0.1446	0.13492	0.1514	9.96E-04	5.71E-06	5.17E-06	5.52E-06	5.20E-06	1.0179E-03
520647.89	4258211.22	21701.97585	0.11974	0.15196	0.11831	0.15775	9.96E-04	4.90E-06	5.44E-06	4.84E-06	5.42E-06	1.0162E-03
520616.34	4258941.3	21683.79938	0.1719	0.09993	0.16667	0.10392	9.95E-04	7.04E-06	3.57E-06	6.82E-06	3.57E-06	1.0158E-03
520603.85	4258966.49	21678.15081	0.18004	0.0993	0.17423	0.10334	9.95E-04	7.37E-06	3.55E-06	7.13E-06	3.55E-06	1.0162E-03
520649.28	4258221.83	21675.52869	0.12007	0.15108	0.11863	0.15671	9.94E-04	4.92E-06	5.40E-06	4.86E-06	5.38E-06	1.0150E-03
520095.31	4259220.66	21667.64588	11.78707	0.18528	11.30752	0.17533	9.94E-04	4.83E-04	6.63E-06	4.63E-04	6.02E-06	1.9523E-03
520631.32	4258907.99	21666.69247	0.16249	0.10113	0.15778	0.10496	9.94E-04	6.65E-06	3.62E-06	6.46E-06	3.60E-06	1.0144E-03
520634.91	4258899.4	21661.92698	0.16028	0.10151	0.15565	0.10528	9.94E-04	6.56E-06	3.63E-06	6.37E-06	3.61E-06	1.0140E-03
520638.51	4258890.81	21645.0008	0.15807	0.10188	0.15352	0.1056	9.93E-04	6.47E-06	3.64E-06	6.29E-06	3.63E-06	1.0131E-03
520674.17	4258709.89	21632.43669	0.13291	0.11512	0.12864	0.11897	9.92E-04	5.44E-06	4.12E-06	5.27E-06	4.08E-06	1.0114E-03
520642.11	4258882.22	21621.48989	0.15588	0.10226	0.15141	0.10593	9.92E-04	6.38E-06	3.66E-06	6.20E-06	3.64E-06	1.0118E-03
520046.24	4258390.27	21609.27118	0.29544	7.13838	0.31452	5.41589	9.91E-04	1.21E-05	2.55E-04	1.29E-05	1.86E-04	1.4576E-03
520645.7	4258873.63	21587.55408	0.15371	0.10262	0.1493	0.10624	9.90E-04	6.29E-06	3.67E-06	6.11E-06	3.65E-06	1.0101E-03
520637.83	4258455.25	21584.3424	0.13757	0.14404	0.13347	0.15081	9.90E-04	5.63E-06	5.15E-06	5.46E-06	5.18E-06	1.0117E-03
519914.81	4258798.15	21583.16131	0.49454	0.46059	0.53538	0.44248	9.90E-04	2.02E-05	1.65E-05	2.19E-05	1.52E-05	1.0640E-03
520207.94	4258112.72	21581.23858	0.16276	1.95586	0.16451	2.16442	9.90E-04	6.66E-06	7.00E-05	6.74E-06	7.43E-05	1.1478E-03
519957.12	4258655.32	21579.40761	0.50808	0.93077	0.56808	0.87603	9.90E-04	2.08E-05	3.33E-05	2.33E-05	3.01E-05	1.0975E-03
520198.12	4258122.69	21572.26872	0.16505	2.17512	0.16632	2.4193	9.90E-04	6.76E-06	7.78E-05	6.81E-06	8.31E-05	1.1641E-03
519917.82	4258781.3	21558.25079	0.49044	0.4914	0.53146	0.47164	9.89E-04	2.01E-05	1.76E-05	2.18E-05	1.62E-05	1.0647E-03
520675.64	4258754.24	21552.55334	0.13441	0.10992	0.13014	0.11373	9.89E-04	5.50E-06	3.93E-06	5.33E-06	3.90E-06	1.0075E-03
519907.89	4258853.81	21544.04826	0.51639	0.37739	0.55721	0.36493	9.88E-04	2.11E-05	1.35E-05	2.28E-05	1.25E-05	1.0584E-03
520649.3	4258865.04	21543.46457	0.15157	0.10289	0.14718	0.10648	9.88E-04	6.21E-06	3.68E-06	6.03E-06	3.66E-06	1.0079E-03
520045.87	4259187.25	21536.31597	5.898	0.18593	8.17959	0.18093	9.88E-04	2.41E-04	6.65E-06	3.35E-04	6.21E-06	1.5773E-03
520063.58	4258333.18	21534.87008	0.24735	18.29936	0.26303	9.6878	9.88E-04	1.01E-05	6.55E-04	1.08E-05	3.33E-04	1.9960E-03
520671.37	4258788.38	21532.57284	0.13776	0.10741	0.13341	0.11084	9.88E-04	5.64E-06	3.84E-06	5.46E-06	3.81E-06	1.0066E-03
520188.3	4258132.66	21528.64559	0.16736	2.43547	0.16822	2.72473	9.88E-04	6.85E-06	8.71E-05	6.89E-06	9.35E-05	1.1821E-03
520641.17	4258438.16	21528.23171	0.13568	0.14354	0.13188	0.15018	9.88E-04	5.56E-06	5.13E-06	5.40E-06	5.16E-06	1.0089E-03
519928.92	4258735.72	21524.73295	0.48705	0.5992	0.53411	0.57204	9.88E-04	1.99E-05	2.14E-05	2.19E-05	1.96E-05	1.0704E-03
519909	4258928.82	21509.18344	0.58455	0.29913	0.63157	0.29367	9.87E-04	2.39E-05	1.07E-05	2.59E-05	1.01E-05	1.0574E-03
520653.83	4258316.18	21508.93212	0.12508	0.14383	0.12311	0.15047	9.87E-04	5.12E-06	5.14E-06	5.04E-06	5.17E-06	1.0073E-03
520119.5	4258222.44	21504.06249	0.19495	7.762	0.19845	9.13619	9.87E-04	7.98E-06	2.78E-04	8.13E-06	3.14E-04	1.5940E-03
520652.9	4258856.44	21488.47926	0.14942	0.10317	0.14506	0.10672	9.86E-04	6.12E-06	3.69E-06	5.94E-06	3.66E-06	1.0053E-03
520032.83	4258474.07	21478.54246	0.44214	4.54755	0.48265	3.67788	9.85E-04	1.81E-05	1.63E-04	1.98E-05	1.26E-04	1.3122E-03
520652.07	4258233.03	21471.25971	0.12005	0.14934	0.11867	0.15485	9.85E-04	4.92E-06	5.34E-06	4.86E-06	5.32E-06	1.0055E-03
520654.25	4258291.42	21459.16066	0.12334	0.1451	0.12195	0.15142	9.85E-04	5.05E-06	5.19E-06	4.99E-06	5.20E-06	1.0049E-03
520029.36	4258492.3	21456.00994	0.48734	4.0818	0.53773	3.35986	9.84E-04	2.00E-05	1.46E-04	2.20E-05	1.15E-04	1.2877E-03
520656.5	4258847.85	21427.75959	0.14731	0.10363	0.14306	0.1071	9.83E-04	6.03E-06	3.71E-06	5.86E-06	3.68E-06	1.0023E-03
520139.17	4258192.5	21423.74751	0.18428	5.04568	0.18574	5.8407	9.83E-04	7.55E-06	1.80E-04	7.60E-06	2.01E-04	1.3790E-03
520178.48	4258142.63	21413.88246	0.16955	2.75115	0.17018	3.0912	9.82E-04	6.94E-06	9.84E-05	6.97E-06	1.06E-04	1.2000E-03
520613.93	4258952.31	21406.69531	0.17348	0.09907	0.16812	0.10305	9.82E-04	7.10E-06	3.54E-06	6.88E-06	3.54E-06	1.0032E-03
520653.41	4258243.62	21391.93252	0.12038	0.14826	0.11909	0.15378	9.81E-04	4.93E-06	5.30E-06	4.88E-06	5.28E-06	1.0018E-03
519920.74	4258764.21	21378.58328	0.48382	0.52504	0.52567	0.50332	9.81E-04	1.98E-05	2.15E-05	1.73E-05	1.73E-05	1.0582E-03
520677.18	4258726.64	21365.75251	0.13246	0.11222	0.12826	0.11614	9.80E-04	5.42E-06	4.01E-06	5.25E-06	3.99E-06	9.9890E-04
520660.09	4258839.26	21355.18312	0.1452	0.10405	0.14105	0.10744	9.80E-04	5.95E-06	3.72E-06	5.78E-06	3.69E-06	9.9887E-04
520626.23	4258927.2	21347.25164	0.16577	0.09967	0.16086	0.10355	9.79E-04	6.79E-06	3.57E-06	6.59E-06	3.55E-06	9.9986E-04
520036.38	4258441.17	21312.87662	0.36748	5.1098	0.39463	4.09337	9.78E-04	1.50E-05	1.83E-04	1.62E-05	1.41E-04	1.3323E-03
520019.48	4258521.43	21312.1974	0.54311	3.11741	0.61576	2.64249	9.78E-04	2.22E-05	1.12E-04	2.52E-05	9.07E-05	1.2274E-03
520654.85	4258254.25	21287.27911	0.12069	0.14701	0.11947	0.15264	9.77E-04	4.94E-06	5.26E-06	4.89E-06	5.24E-06	9.9695E-04
520674.99	4258779.73	21278.33961	0.13578	0.10739	0.13149	0.11089	9.76E-04	5.56E-06	3.84E-06	5.38E-06	3.81E-06	9.9480E-04
520085.41	4259220.68	21274.03973	15.74677	0.18291	17.82027	0.17407	9.76E-04	6.45E-04	6.54E-06	7.30E-04	5.98E-06	2.3629E-03
519905.17	4258895.46	21266.79744	0.53782	0.32873	0.58031	0.32029	9.76E-04	2.20E-05	1.18E-05	2.38E-05	1.10E-05	1.0442E-03
520168.66	4258152.6	21260.04375	0.17174	3.13782	0.17227	3.54327	9.75E-04	7.03E-06	1.12E-04	7.05E-06	1.22E-04	1.2233E-03
520663.69	4258830.67	21259.57254	0.14314	0.10435	0.13901	0.10767	9.75E-04	5.86E-06	3.73E-06	5.69E-06	3.70E-06	9.9433E-04
520055.26	4259199.9	21237.40478	8.3029	0.18328	14.25239	0.1775	9.74E-04	3.40E-04	6.56E-06	5.84E-04	6.09E-06	1.9105E-03
520099.83	4258252.38	21206.84799	0.20533	14.65645	0.21217	15.72365	9.73E-04	8.41E-06	5.24E-04	8.69E-06	5.40E-04	2.0541E-03
519904.73	4258870.3	21171.6787	0.51471	0.35488	0.55452	0.3441	9.71E-04	2.11E-05	1.27E-05	2.27E-05	1.18E-05	1.0396E-03
520679.29	4258745.53	21167.35049	0.1325	0.1099	0.12839	0.11372	9.71E-04	5.43E-06	3.93E-06	5.26E-06	3.90E-06	9.8963E-04
520656.41	4258264.93	21144.38484	0.12097	0.14953	0.11976	0.15141	9.70E-04	4.95E-06	5.21E-06	4.90E-06	5.20E-06	9.9033E-04
520667.29	4258822.08	21144.16031	0.14113	0.10449	0.13696	0.10777	9.70E-04	5.78E-06	3.74E-06	5.61E-06	3.70E-06	9.8888E-04
520047.06	4258379.95	21139.65758	0.2817	7.35746	0.29957	5.55724	9.70E-04	1.15E-05	2.63E-04	1.23E-05	1.91E-04	1.4476E-03
519905.23	4258919.72	21116.96492	0.55669	0.30497	0.60048	0.29867	9.69E-04	2.28E-05	1.09E-05	2.46E-05	1.03E-05	1.0373E-03
519910.19	4258811.13	21106.0122	0.48483	0.43419	0.52373	0.41766	9.68E-04	1.99E-05	1.55E-05	2.14E-05	1.43E-05	1.0395E-03
520638.09	4258481.82	21090.89776	0.13835	0.14258	0.13364	0.14919	9.68E-04	5.66E-06	5.10E-06	5.47E-06	5.12E-06	9.8897E-04
520677.72	4258701.39	21074.3778	0.13113	0.11497	0.12687	0.1187	9.67E-04	5.37E-06	4.11E-06	5.19E-06	4.08E-06	9.8560E-04
520158.84	4258162.57	21071.20597	0.17393	3.62043	0.1745	4.11545	9.67E-04	7.12E-06	1.29E-04	7.14E-06	1.41E-04	1.2518E-03
520095.33	4259230.66	21057.33166	11.72894	0.18105	11.2421	0.17142	9.66E-04	4.80E-04	6.48E-06	4.60E-04	5.89E-06	1.9190E-03
520129.35	4258202.47	21054.06771	0.18628	4.16192	0.18848	7.19834	9.66E-04	7.63E-06	2.20E-04	7.72E-06	2.47E-04	1.4488E-03
520657.61	4258300.24	21052.4063	0.12295	0.14289	0.12131	0.14929	9.66E-04	5.03E-06	5.11E-06	4.97E-06	5.13E-06	9.8608E-04
520612.53	4258962.89	21047.85431	0.1744	0.09802	0.16888	0.10196	9.66E-04	7.14E-06	3.51E-06	6.91E-06	3.50E-06	9.8670E-04
519940.87	4258692.19	21026.70548	0.48269	0.73699	0.53331	0.69943	9.65E-04	1.98E-05	2.64E-05	2.18E-05	2.40E-05	1.0566E-03
520624.84	4258937.78	21023.17104	0.1667	0.09861	0.16169	0.10248	9.65E-04	6.83E-06	3.53E-06	6.62E-06	3.52E-06	9.8499E-04
519907.23	4258828.09	21005.69672	0.48758	0.4077	0.52597	0.39282	9.64E-04	2.00E-05	1.46E-05	2.15E-05	1.35E-05	1.0333E-03
520678.62	4258771.08	21000.63915	0.13386	0.10734	0.12964	0.11091	9.63E-04	5.48E-06	3.84E-06	5.31E-06	3.81E-06	9.8190E-04
520670.88	4258813.49	20983.85832	0.13909	0.10465	0.13492	0.1079	9.63E-04	5.69E-06	3.74E-06	5.52E-06	3.70E-06	9.8137E-04
519931.79	4258718.53	20969.0141	0.47566	0.64186	0.52312	0.61159	9.62E-04	1.95E-05	2.30E-05	2.14E-05	2.10E-05	1.0469E-03
519923.53	4258746.84	20968.54431	0.47286	0.56176	0.51725	0.53714	9.62E-04	1.94E-05	2.01E-05	2.12E-05	1.84E-05	1.0411E-03
520109.68	4258232.41	20963.87994	0.19654	10.27337	0.20136	11.9517	9.62E-04	8.05E-06	3.67E-04	8.24E-06	4.10E-04	1.7559E-03
520656.94	4258350.21	20938.84714	0.12605	0.14094	0.12322	0.14726	9.61E-04	5.16E-06	5.04E-06	5.05E-06	5.06E-06	9.8094E-04
520653.31	4258392.43	20901.49855	0.1294	0.14064	0.12604	0.14682	9.59E-04	5.30E-06	5.03E-06	5.16E-06	5.04E-06	9.7945E-04
520641.26	4258464.26	20897.25349	0.13659	0.14207	0.13228	0.14871	9.59E-04	5.59E-06	5.08E-06	5.42E-06	5.11E-06	9.7992E-04
520009.56	4258540.87	20866.49543	0.55231	2.45583	0.63502	2.13794	9.57E-04	2.26E-05	8.78E-05	2.60E-05	7.34E-05	1.1672E-03
520674.48	4258804.9	20852.55573	0.13716	0.10488	0.13302	0.1081	9.57E-04	5.62E-06	3.75E-06	5.45E-06	3.71E-06	9.7520E-04
520655.45	4258204.44	20845.08248	0.11737	0.14816	0.11585	0.15381	9.56E-04	4.81E-06	5.30E-06	4.74E-06	5.28E-06	9.7646E-04
519947.12	4258673.87	20842.58495	0.48421	0.81349	0.53777	0.76919	9.56E-04	1.98E-05	2.91E-05	2.20E-05	2.64E-05	1.0536E-03
520149.02	4258172.53	20837.37993	0.17607	4.23751	0.17685	4.85736	9.56E-04	7.21E-06	1.52E-04	7.24E-06	1.67E-04	1.2888E-03
519915.01	4258215.03	20811.30406	0.11767	0.14736	0.11615	0.15283	9.55E-04	4.82E-06	5.27E-06	4.76E-06	5.25E-06	9.7487E-04
519904.17	4258844.83	20808.95654	0.48874	0.38316	0.52614	0.36998	9.55E-04	2.00E-05	1.37E-05	2.15E-05	1.27E-05	1.0226E-03
520063.96	4258323.03	20793.6551	0.23693	18.78887	0.25158	9.82144	9.54E-04	9.70E-06	6.72E-04	1.03E-05	3.37E-04	1.9832E-03
519919.92	4258709.92	20784.36055	5.85024	0.18034	8.03087	0.17558	9.54E-04	2.40E-04	6.45E-06	3.29E-04	6.03E-06	1.5344E-03
520029.32	4258482.6	20768.00252	0.45428	4.11072	0.49767	3.37868	9.53E-04	1.86E-05	1.47E-04	2.04E-05	1.16E-04	1.2548E-03
520622.67	4258948.69	20754.61656	0.16807	0.0977	0.16292	0.10157	9.52E-04	6.88E-06	3.49E-06	6.67E-06	3.49E-06	9.7272E-04
520682.94	4258736.81	20750.97498	0.13067	0.10973	0.12665	0.11354	9.52E-04	5.35E-06	3.92E-06	5.19E-06	3.90E-06	9.7037E-04
520658.26	4258225.67	20745.5361	0.11795	0.14641	0.11648	0.15178	9.52E-04	4.83E-06	5.24E-06	4.77E-06	5.21E-06	9.7181E-04
519901.5	4258886.61	20743.64558	0.51165	0.33448	0.55083	0.32515	9.52E-04	2.09E-05	1.20E-05	2.26E-05	1.12E-05	1.0183E-03
520198.15	4258112.69	20710.70292	0.16013	2.17684	0.16104	2.41905	9.50E-04	6.56E-06	7.79E-05	6.59E-06	8.30E-05	1.1242E-03
520682.24	4258762.43	20699.24892	0.13201	0.10727	0.12789	0.11091	9.50E-04	5.41E-06	3.84E-06	5.24E-06	3.81E-06	9.6793E-04
520656.79	4258375.69	20698.62791	0.12743	0.13995	0.12422	0.14606	9.50E-04	5.22E-06	5.01E-06	5.09E-06	5.01E-06	9.6994E-04
519999.65	4258560.31	20695.50058	0.55058	1.98023	0.63651	1.76235	9.49E-04	2.25E-05	7.08E-05	2.61E-05	6.05E-05	1.1294E-03
519901.45	4258910.62	20682.46033	0.5299	0.31075	0.57056	0.30357	9.49E-04	2.17E-05	1.11E-05	2.34E-05	1.04E-05	1.0155E-03
520638.35	4258915.13	20677.68898	0.15866	0.09872	0.15407	0.10242	9.49E-04	6.50E-06	3.53E-06	6.31E-06	3.52E-06	9.6850E-04
520085.43	4259230.68	20675.7444	15.79691	0.17873	17.66177	0.17018	9.49E-04	6.47E-04	6.39E-06	7.23E-04	5.84E-06	2.3307E-03
519989.73	4258579.74	20674.37442	0.54068	1.62784	0.62715	1.47508	9.48E-04	2.21E-05	5.87E-05	2.57E-05	5.06E-05	1.1052E-03
520188.33	4258122.66	20672.90001	0.16231	2.43701	0.16282	2.72582	9.48E-04	6.65E-06	8.72E-05	6.67E-06	9.36E-05	1.1425E-03
520641.92	4258906.59	20672.10396	0.15656	0.09908	0.15206	0.10273	9.48E-04	6.41E-06	3.54E-06	6.23E-06	3.53E-06	9.6810E-04
520678.08	4258796.31	20667.84733	0.13523	0.10498	0.13112	0.10822	9.48E-04	5.54E-06	3.76E-06	5.37E-06	3.72E-06	9.6658E-04
520055.28	4259209.9	20666.86716	8.32508	0.17911	14.36016	0.17351	9.48E-04	3.41E-04	6.41E-06	5.88E-04	5.96E-06	1.8893E-03
519979.81	4258599.18	20656.42493	0.52484	1.35722	0.60391	1.2525	9.48E-04	2.15E-05	4.85E-05	2.47E-05	4.30E-05	1.0854E-03
520645.5	4258898.06	20656.14146	0.15446	0.09944	0.15005	0.10304	9.48E-04	6.32E-06	3.56E-06	6.14E-06	3.54E-06	9.6723E-04
520660.97	4258309.06	20648.18784	0.12254	0.14075	0.1206	0.14717	9.47E-04	5.02E-06	5.03E-06	4.94E-06	5.05E-06	9.6734E-04
520649.07	4258889.52	20635.82308	0.15239	0.09981	0.14806	0.10336	9.47E-04	6.24E-06	3.57E-06	6.06E-06	3.55E-06	9.6615E-04
520047.74	4258369.68	20632.10161	0.26897	7.54648	0.28579	5.67799	9.47E-04	1.10E-05	2.70E-04	1.17E-05	1.95E-04	1.4341E-03
520119.53	4258212.44	20618.41027	0.18024	7.77724	0.19126	9.13248	9.46E-04	7.70E-06	2.78E-04	7.83E-06	3.14E-04	1.5532E-03
520652.65	4258880.99	20607.97794	0.15031	0.10018	0.14607	0.10368	9.45E-04	6.15E-06	3.58E-06	5.98E-06	3.56E-06	9.6473E-04
520661.58	4258284.79	20584.51992	0.12084	0.14186	0.11942	0.14794	9.44E-04	4.95E-06	5.07E-06	4.89E-06	5.08E-06	9.6437E-04
520178.51	4258132.63	20567.69602	0.16438	2.75241	0.16468	3.09419	9.44E-04	6.73E-06	9.84E-05	6.74E-06	1.06E-04	1.1618E-03
520656.22	4258872.46	20566.31483	0.14828	0.10047	0.14407	0.10394	9.44E-04	6.07E-06	3.59E-06	5.90E-06	3.57E-06	9.6268E-04
520054.26	4258347.01	20563.43368	0.25083	10.03674	0.26679	6.94661	9.43E-04	1.03E-05	3.59E-04	1.09E-05	2.38E-04	1.5621E-03
519911.14	4258789.3	20562.36981	0.46546	0.44481	0.50223	0.44693	9.43E-04	1.91E-05	1.66E-05	2.06E-05	1.53E-05	1.0147E-03
520660.79	4258236.77	20553.36257	0.11801	0.14477	0.11659	0.15013	9.43E-04	4.83E-06	5.18E-06	4.77E-06	5.15E-06	9.6289E-04
520139.2	4258182.5	20542.31207	0.17807	5.05349	0.17933	5.83902	9.42E-04	7.29E-06	1.81E-04	7.34E-06	2.00E-04	1.3383E-03
519901.03	4258861.38	20528.6378	0.48836	0.36049	0.52475	0.34896	9.42E-04	2.00E-05	1.29E-05	2.15E-05	1.20E-05	1.0082E-03
519969.89	4258618.62	20527.1137	0.5065	1.15231	0.57411	1.0773	9.42E-04	2.07E-05	4.12E-05	2.35E-05	3.70E-05	1.0642E-03
520659.79	4258863.92	20521.40625	0.14625	0.10076	0.14209	0.10419	9.41E-04	5.99E-06	3.60E-06	5.82E-06	3.58E-06	9.6047E-04
520032.97	4258449.47	20520.88354	0.37658	4.61742	0.40539	3.75703	9.41E-04	1.54E-05	1.65E-04	1.66E-05	1.29E-04	1.2676E-03
519901.96	4258935.97	20515.18549	0.55024	0.2883	0.59299	0.28306	9.41E-04	2.25E-05	1.03E-05	2.43E-05	9.72E-06	1.0080E-03
520681.28	4258692.9	20497.21156	0.1294	0.1147	0.1251	0.11832	9.40E-04	5.30E-06	4.10E-06	5.12E-06	4.06E-06	9.5896E-04
520095.34	4259240.66	20471.17866	11.68977	0.17698	11.17173	0.16766	9.39E-04	4.79E-04	6.33E-06	4.57E-04	5.76E-06	1.8873E-03
520663.37	4258855.39	20466.87288	0.14423	0.10117	0.14016	0.10453	9.36E-04	5.91E-06	3.62E-06	5.74E-06	3.59E-06	9.5783E-04
519957.12	4258646.05	20452.06007	0.48759	0.95035	0.54413	0.89559	9.38E-04	2.00E-05	3.40E-05	2.23E-05	3.07E-05	1.0453E-03
520662.19	4258247.38	20451.52988	0.11831	0.14362	0.11697	0.14906	9.38E-04	4.84E-06	5.14E-06	4.79E-06	5.12E-06	9.5816E-04
520681.67	4258787.72	20445.50447	0.13334	0.10498	0.12925	0.10828	9.38E-04	5.46E-06	3.75E-06	5.29E-06	3.72E-06	9.5622E-04
520660.35	4258359.17	20434.42235	0.12545	0.13905	0.12243	0.14516	9.37E-04	5.14E-06	4.97

520664.31	4258208.23	19999.23357	0.11534	0.14378	0.11374	0.14911	9.18E-04	4.72E-06	5.14E-06	4.66E-06	5.12E-06	9.3717E-04
520681.23	4258812.71	19969.67304	0.13453	0.1024	0.13058	0.10549	9.16E-04	5.51E-06	3.66E-06	5.35E-06	3.62E-06	9.3431E-04
520054.84	4258336.79	19963.55788	0.24036	10.30052	0.25539	7.09594	9.16E-04	9.84E-06	3.68E-04	1.05E-05	2.44E-04	1.5482E-03
520665.72	4258218.85	19938.13237	0.11563	0.1429	0.11405	0.14813	9.15E-04	4.73E-06	5.11E-06	4.67E-06	5.09E-06	9.3432E-04
520663.76	4258368.13	19929.14063	0.12484	0.13717	0.12166	0.1431	9.14E-04	5.11E-06	4.91E-06	4.98E-06	4.91E-06	9.3422E-04
520684.84	4258684.41	19907.5946	0.1277	0.11448	0.12338	0.11801	9.13E-04	5.23E-06	4.09E-06	5.05E-06	4.05E-06	9.3175E-04
520095.36	4259250.66	19905.24901	11.69115	0.17304	11.0871	0.16403	9.13E-04	4.79E-04	6.19E-06	4.54E-04	5.63E-06	1.8577E-03
520688.87	4258770.54	19893.29917	0.12963	0.1048	0.12567	0.10825	9.13E-04	5.31E-06	3.75E-06	5.15E-06	3.72E-06	9.3058E-04
520687.77	4258701.33	19892.43439	0.12729	0.11218	0.12329	0.1157	9.13E-04	5.21E-06	4.01E-06	5.05E-06	3.97E-06	9.3087E-04
519947.12	4258664.6	19862.53455	0.46604	0.83188	0.51656	0.78703	9.11E-04	1.91E-05	2.98E-05	2.12E-05	2.70E-05	1.0083E-03
520667.24	4258229.51	19859.70174	0.11593	0.14183	0.11439	0.14707	9.11E-04	4.75E-06	5.07E-06	4.68E-06	5.05E-06	9.3068E-04
520188.36	4258112.66	19854.56096	0.15745	2.43901	0.15571	2.72446	9.11E-04	6.45E-06	8.72E-05	6.46E-06	9.35E-05	1.1046E-03
519897.34	4258852.47	19849.95687	0.4632	0.36565	0.49644	0.35352	9.11E-04	1.90E-05	1.31E-05	2.03E-05	1.21E-05	9.7518E-04
520690.24	4258719.38	19839.74301	0.12712	0.10958	0.12327	0.1132	9.10E-04	5.20E-06	3.92E-06	5.05E-06	3.89E-06	9.2827E-04
520629.9	4258955.7	19822.08149	0.16379	0.09537	0.15868	0.09911	9.09E-04	6.71E-06	3.41E-06	6.50E-06	3.40E-06	9.2942E-04
520668.53	4258303.05	19804.98978	0.12007	0.13738	0.11808	0.14362	9.09E-04	4.92E-06	4.91E-06	4.83E-06	4.93E-06	9.2821E-04
520684.81	4258804.18	19796.43829	0.13266	0.1025	0.12873	0.1056	9.08E-04	5.43E-06	3.67E-06	5.27E-06	3.63E-06	9.2622E-04
520668.77	4258277.8	19796.2655	0.11849	0.13874	0.11699	0.14463	9.08E-04	4.85E-06	4.96E-06	4.79E-06	4.97E-06	9.2778E-04
520119.56	4258202.44	19792.77796	0.18156	7.79141	0.18451	9.1313	9.08E-04	7.43E-06	2.79E-04	7.55E-06	3.13E-04	1.5152E-03
519770.45	4258122.63	19770.45398	0.15945	2.75337	0.15947	3.09617	9.07E-04	6.53E-06	9.83E-05	6.53E-06	1.06E-04	1.1249E-03
520645.39	4258922.27	19752.40743	0.15491	0.09637	0.15038	0.09995	9.06E-04	6.34E-06	3.45E-06	6.16E-06	3.43E-06	9.2558E-04
520648.94	4258913.78	19746.26371	0.15291	0.09672	0.14849	0.10026	9.06E-04	6.26E-06	3.46E-06	6.08E-06	3.44E-06	9.2516E-04
519894.48	4258917.91	19738.25108	0.50055	0.29893	0.53727	0.2921	9.06E-04	2.05E-05	1.07E-05	2.20E-05	1.00E-05	9.6877E-04
520652.49	4258905.3	19732.55642	0.15093	0.09708	0.14661	0.10057	9.05E-04	6.18E-06	3.47E-06	6.00E-06	3.45E-06	9.2440E-04
520139.23	4258172.5	19732.20315	0.17226	5.05745	0.1733	5.84905	9.05E-04	7.05E-06	1.81E-04	7.10E-06	2.01E-04	1.3011E-03
520045.81	4259219.92	19730.08532	5.98326	0.17245	8.27515	0.16793	9.05E-04	2.45E-04	6.17E-06	3.39E-04	5.77E-06	1.5009E-03
520036.34	4258404.35	19727.09991	0.29839	5.13151	0.31683	4.15242	9.05E-04	1.22E-05	1.84E-04	1.30E-05	1.43E-04	1.2563E-03
520656.04	4258896.82	19713.73734	0.14895	0.09744	0.14472	0.10088	9.04E-04	6.10E-06	3.49E-06	5.93E-06	3.46E-06	9.2340E-04
520648.13	4258482.3	19711.298	0.13454	0.13846	0.12989	0.14472	9.04E-04	5.51E-06	4.95E-06	5.32E-06	4.97E-06	9.2506E-04
519893.91	4258892.43	19695.57417	0.47962	0.32181	0.5143	0.31289	9.04E-04	1.96E-05	1.15E-05	2.11E-05	1.07E-05	9.6654E-04
520659.59	4258888.33	19689.24808	0.14699	0.0978	0.14285	0.10119	9.03E-04	6.02E-06	3.50E-06	5.85E-06	3.47E-06	9.2214E-04
520668.52	4258240.5	19683.25469	0.11605	0.14026	0.11455	0.14559	9.03E-04	4.75E-06	5.02E-06	4.69E-06	5.00E-06	9.2249E-04
520684.89	4258674.93	19668.31814	0.12727	0.11517	0.1228	0.11872	9.02E-04	5.21E-06	4.12E-06	5.03E-06	4.08E-06	9.2078E-04
520667.37	4258351.74	19666.19584	0.12293	0.13621	0.11993	0.14216	9.02E-04	5.03E-06	4.87E-06	4.91E-06	4.88E-06	9.2194E-04
520663.15	4258879.85	19659.28056	0.14502	0.09816	0.14009	0.1015	9.02E-04	5.94E-06	3.51E-06	5.77E-06	3.48E-06	9.2064E-04
520660.26	4258410.69	19636.75726	0.12787	0.13671	0.12435	0.14269	9.01E-04	5.24E-06	4.89E-06	5.09E-06	4.90E-06	9.2101E-04
520693.1	4258736.48	19632.33065	0.1267	0.10724	0.12299	0.11084	9.01E-04	5.19E-06	3.84E-06	5.04E-06	3.81E-06	9.1856E-04
520168.72	4258132.6	19625.39065	0.16133	3.1407	0.16133	3.55034	9.00E-04	6.61E-06	1.12E-04	6.61E-06	1.22E-04	1.1478E-03
520692.46	4258761.95	19623.05703	0.12792	0.10477	0.12407	0.10827	9.00E-04	5.24E-06	3.75E-06	5.08E-06	3.72E-06	9.1805E-04
520666.7	4258871.37	19612.97495	0.14311	0.0984	0.13909	0.10171	9.00E-04	5.86E-06	3.52E-06	5.69E-06	3.49E-06	9.1837E-04
520055.72	4259229.9	19602.9869	8.55555	0.17129	15.13791	0.16599	8.99E-04	3.50E-04	6.13E-06	6.20E-04	5.70E-06	1.8813E-03
519919.76	4258737.74	19592.64565	0.44084	0.56397	0.48107	0.53973	8.99E-04	1.80E-05	2.02E-05	1.97E-05	1.85E-05	9.7532E-04
520688.38	4258795.64	19592.12583	0.13082	0.10252	0.1269	0.10565	8.99E-04	5.36E-06	3.67E-06	5.20E-06	3.63E-06	9.1670E-04
519894.16	4258868.92	19585.11416	0.46259	0.3449	0.4953	0.33414	8.99E-04	1.89E-05	1.23E-05	2.03E-05	1.15E-05	9.6156E-04
520670.25	4258862.89	19565.61031	0.1412	0.09873	0.13724	0.10199	8.98E-04	5.78E-06	3.53E-06	5.62E-06	3.50E-06	9.1607E-04
520663.67	4258393.76	19564.01361	0.12606	0.13604	0.12264	0.14192	8.98E-04	5.16E-06	4.87E-06	5.02E-06	4.87E-06	9.1748E-04
520085.46	4259250.68	19563.18816	15.66188	0.17087	17.2853	0.16287	8.98E-04	6.41E-04	6.11E-06	7.08E-04	5.59E-06	2.2582E-03
520099.89	4258232.38	19556.62523	0.19058	14.7417	0.19647	15.82156	8.97E-04	7.80E-06	5.27E-04	8.04E-06	5.45E-04	1.9865E-03
520670.97	4258251.13	19553.14054	0.11631	0.13909	0.11486	0.14453	8.97E-04	4.76E-06	4.98E-06	4.70E-06	4.96E-06	9.1646E-04
520037.55	4258393.86	19538.64378	0.28501	5.32387	0.30216	4.28954	8.96E-04	1.17E-05	1.90E-04	1.24E-05	1.47E-04	1.2581E-03
520651.36	4258464.93	19528.33809	0.13286	0.13779	0.12857	0.1441	8.96E-04	5.44E-06	4.93E-06	5.26E-06	4.95E-06	9.1650E-04
520673.8	4258854.4	19509.32005	0.13929	0.09907	0.13541	0.10227	8.95E-04	5.70E-06	3.54E-06	5.54E-06	3.51E-06	9.1335E-04
519907.47	4258780.46	19505.3606	0.43782	0.46825	0.47147	0.45066	8.95E-04	1.79E-05	1.67E-05	1.93E-05	1.55E-05	9.6432E-04
520640.15	4258941.45	19496.06371	0.15792	0.09506	0.15313	0.0987	8.94E-04	6.47E-06	3.40E-06	6.27E-06	3.39E-06	9.1397E-04
520033.64	4258415.45	19491.94429	0.31093	4.74342	0.33078	3.87537	8.94E-04	1.27E-05	1.70E-04	1.35E-05	1.33E-04	1.2232E-03
519928.13	4258709.69	19453.45345	0.44275	0.64164	0.48445	0.61235	8.92E-04	1.81E-05	2.30E-05	1.98E-05	2.10E-05	9.7442E-04
520677.35	4258845.92	19441.29684	0.13742	0.09936	0.13358	0.10249	8.92E-04	5.63E-06	3.55E-06	5.47E-06	3.52E-06	9.1010E-04
520158.9	4258142.57	19433.11661	0.16316	3.62597	0.1633	4.11823	8.92E-04	6.68E-06	1.30E-04	6.69E-06	1.41E-04	1.1760E-03
520672.21	4258286.85	19430.20256	0.11812	0.13654	0.1164	0.14255	8.91E-04	4.84E-06	4.88E-06	4.77E-06	4.89E-06	9.1080E-04
520684.94	4258665.44	19424.75725	0.12689	0.11597	0.12232	0.11957	8.91E-04	5.20E-06	4.15E-06	5.01E-06	4.10E-06	9.0963E-04
520658.19	4258431.12	19419.22385	0.12936	0.13651	0.12564	0.14263	8.91E-04	5.30E-06	4.88E-06	5.14E-06	4.90E-06	9.1114E-04
520667.17	4258377.09	19411.3212	0.1242	0.13531	0.1209	0.1411	8.91E-04	5.09E-06	4.84E-06	4.95E-06	4.84E-06	9.1027E-04
520129.41	4258182.47	19395.00844	0.17393	6.18218	0.17573	7.19121	8.90E-04	7.12E-06	2.21E-04	7.20E-06	2.47E-04	1.3721E-03
520064.6	4258302.8	19394.15944	0.21821	19.6311	0.23109	10.05715	8.90E-04	8.93E-06	7.02E-04	9.46E-06	3.45E-04	1.9556E-03
520672	4258312.17	19392.08647	0.11961	0.13532	0.11731	0.1415	8.90E-04	4.90E-06	4.84E-06	4.80E-06	4.86E-06	9.0907E-04
520691.95	4258787.11	19390.06791	0.12906	0.10254	0.12519	0.10572	8.90E-04	5.28E-06	3.67E-06	5.13E-06	3.63E-06	9.0729E-04
520055.34	4258326.6	19367.21491	0.23057	10.52654	0.24474	7.22773	8.89E-04	9.44E-06	3.77E-04	1.00E-05	2.48E-04	1.5328E-03
520671.05	4258335.53	19361.86318	0.12102	0.13516	0.11827	0.14115	8.88E-04	4.96E-06	4.83E-06	4.84E-06	4.85E-06	9.0776E-04
520680.9	4258837.44	19359.72192	0.13557	0.09961	0.13176	0.10268	8.88E-04	5.55E-06	3.56E-06	5.39E-06	3.53E-06	9.0622E-04
520095.38	4259269.66	19358.52312	11.70573	0.16925	10.99748	0.16052	8.88E-04	4.79E-04	6.05E-06	4.50E-04	5.51E-06	1.8293E-03
520691.3	4258692.9	19354.67302	0.12565	0.11199	0.12163	0.1154	8.88E-04	5.14E-06	4.01E-06	4.98E-06	3.96E-06	9.0605E-04
520693.89	4258710.67	19351.05602	0.1254	0.10958	0.12162	0.11305	8.88E-04	5.13E-06	3.92E-06	4.98E-06	3.88E-06	9.0570E-04
520109.74	4258212.41	19336.88921	0.18292	10.31592	0.18703	12.0048	8.87E-04	7.49E-06	3.69E-04	7.66E-06	4.12E-04	1.6834E-03
520009.52	4258531.17	19329.75075	0.51618	2.49318	0.58698	2.17029	8.87E-04	2.11E-05	8.92E-05	2.40E-05	7.45E-05	1.0957E-03
519957.12	4258636.77	19323.0011	0.46813	0.96858	0.52212	0.91391	8.87E-04	1.92E-05	3.46E-05	2.14E-05	3.14E-05	9.9307E-04
520696.06	4258753.36	19322.50101	0.12624	0.10479	0.12253	0.10831	8.86E-04	5.17E-06	3.75E-06	5.02E-06	3.72E-06	9.0413E-04
519890.73	4258908.88	19293.22798	0.47707	0.30406	0.51097	0.29643	8.85E-04	1.95E-05	1.09E-05	2.09E-05	1.02E-05	9.4464E-04
520684.46	4258828.95	19261.73554	0.13373	0.09984	0.12994	0.10285	8.84E-04	5.48E-06	3.57E-06	5.32E-06	3.53E-06	9.0159E-04
519937.12	4258683.15	19248.48916	0.44561	0.73301	0.49006	0.69676	8.83E-04	1.82E-05	2.62E-05	2.01E-05	2.39E-05	9.7153E-04
519910.42	4258763.46	19246.14786	0.43124	0.49829	0.46591	0.47901	8.83E-04	1.77E-05	1.78E-05	1.91E-05	1.64E-05	9.5398E-04
519899.71	4258809.97	19244.22131	0.43426	0.41646	0.4656	0.40152	8.83E-04	1.78E-05	1.49E-05	1.91E-05	1.38E-05	9.4841E-04
520038.53	4258383.47	19238.82263	0.27226	5.48569	0.28829	4.40686	8.83E-04	1.11E-05	1.96E-04	1.18E-05	1.51E-04	1.2531E-03
519896.72	4258826.87	19233.91479	0.43731	0.39258	0.46844	0.37879	8.82E-04	1.79E-05	1.40E-05	1.92E-05	1.30E-05	9.4465E-04
520638.58	4258952.11	19229.02908	0.15881	0.09413	0.15389	0.09776	8.82E-04	6.50E-06	3.37E-06	6.30E-06	3.36E-06	9.0172E-04
520045.82	4259229.92	19219.90283	6.01483	0.16865	8.32552	0.16426	8.82E-04	2.46E-04	6.03E-06	3.41E-04	5.64E-06	1.4806E-03
520149.08	4258152.53	19215.42744	0.16497	2.42599	0.1654	2.85748	8.82E-04	6.75E-06	1.52E-04	6.77E-06	1.67E-04	1.2137E-03
520696.73	4258727.83	19212.1974	0.12501	0.10715	0.12138	0.11068	8.81E-04	5.12E-06	3.83E-06	4.97E-06	3.80E-06	8.9914E-04
520670.75	4258360.62	19200.19455	0.12234	0.13442	0.11918	0.14019	8.81E-04	5.01E-06	4.81E-06	4.88E-06	4.81E-06	9.0038E-04
520673.17	4258212.02	19169.57905	0.11336	0.13953	0.1117	0.1446	8.79E-04	4.64E-06	4.99E-06	4.57E-06	4.96E-06	8.9863E-04
519960.85	4258608.92	19151.39117	0.48405	1.1755	0.54914	1.08825	8.79E-04	1.98E-05	4.20E-05	2.25E-05	3.77E-05	1.0007E-03
520685	4258655.96	19145.55574	0.12649	0.11671	0.12184	0.12039	8.78E-04	5.18E-06	4.17E-06	4.99E-06	4.13E-06	8.9684E-04
519890.13	4258883.33	19145.14707	0.45602	0.32685	0.48771	0.31722	8.78E-04	1.87E-05	1.17E-05	2.00E-05	1.09E-05	9.3956E-04
519979.77	4258589.48	19142.73486	0.49963	1.387	0.57406	1.27613	8.78E-04	2.05E-05	4.96E-05	2.35E-05	4.38E-05	1.0156E-03
519902.61	4258792.84	19141.82873	0.42954	0.44217	0.4612	0.42607	8.78E-04	1.76E-05	1.58E-05	1.89E-05	1.46E-05	9.4510E-04
520695.53	4258778.57	19141.16317	0.1273	0.10246	0.1235	0.10572	8.78E-04	5.21E-06	3.66E-06	5.06E-06	3.63E-06	8.9572E-04
520688.01	4258820.47	19134.31536	0.13199	0.1	0.12813	0.10298	8.78E-04	5.40E-06	3.58E-06	5.25E-06	3.54E-06	8.9561E-04
519893.64	4258843.56	19134.30818	0.43909	0.37023	0.46953	0.35773	8.78E-04	1.80E-05	1.32E-05	1.92E-05	1.23E-05	9.4057E-04
519999.61	4258550.61	19101.93836	0.51793	2.01437	0.59321	1.79191	8.76E-04	2.12E-05	7.21E-05	2.43E-05	6.15E-05	1.0554E-03
520055.74	4259239.9	19091.77945	8.60538	0.16754	15.38308	0.1624	8.76E-04	3.52E-04	5.99E-06	6.30E-04	5.58E-06	1.8696E-03
520674.64	4258222.66	19087.97445	0.11364	0.13856	0.11202	0.14362	8.76E-04	4.65E-06	4.96E-06	4.59E-06	4.93E-06	8.9485E-04
519989.69	4258570.05	19084.88471	0.51192	1.65962	0.58831	1.50242	8.76E-04	2.10E-05	5.94E-05	2.41E-05	5.16E-05	1.0316E-03
520675.95	4258270.8	19050.94863	0.11619	0.13568	0.11463	0.1414	8.74E-04	4.76E-06	4.85E-06	4.85E-06	4.85E-06	8.9318E-04
520675.66	4258295.9	19048.73604	0.11771	0.13437	0.11572	0.14043	8.74E-04	4.82E-06	4.81E-06	4.74E-06	4.82E-06	8.9310E-04
520019.4	4258502.04	19045.97721	0.47115	3.18109	0.52164	2.70255	8.74E-04	1.93E-05	1.14E-04	2.14E-05	9.28E-05	1.1210E-03
520085.48	4259260.68	19035.45382	15.64757	0.16714	17.07409	0.15939	8.73E-04	6.41E-04	5.98E-06	6.99E-04	5.47E-06	2.2245E-03
520026.15	4258466.06	19029.41185	0.39509	3.83016	0.42781	3.19431	8.73E-04	1.62E-05	1.37E-04	1.75E-05	1.10E-04	1.1534E-03
520663.74	4258419.81	19012.33298	0.12708	0.13473	0.12347	0.14067	8.72E-04	5.20E-06	4.82E-06	5.06E-06	4.83E-06	8.9216E-04
520119.59	4258192.44	19006.37974	0.17539	7.81034	0.17817	9.08187	8.72E-04	7.18E-06	2.79E-04	7.30E-06	3.12E-04	1.4776E-03
520178.57	4258112.63	19004.65954	0.1547	2.75324	0.15453	3.09456	8.72E-04	6.33E-06	9.86E-05	6.33E-06	1.06E-04	1.0893E-03
520676.22	4258233.35	19001.07453	0.11395	0.13731	0.11234	0.14251	8.72E-04	4.67E-06	4.91E-06	4.60E-06	4.89E-06	8.9080E-04
520691.56	4258811.99	18987.37156	0.13013	0.10014	0.12636	0.1031	8.71E-04	5.33E-06	3.58E-06	5.17E-06	3.54E-06	8.8873E-04
520667.11	4258402.8	18983.26977	0.12532	0.13415	0.12184	0.13994	8.71E-04	5.13E-06	4.80E-06	4.99E-06	4.80E-06	8.9064E-04
520029.38	4258433.94	18978.01154	0.33424	4.21109	0.35718	3.49151	8.71E-04	1.37E-05	1.51E-04	1.46E-05	1.20E-04	1.1695E-03
520699.66	4258744.77	18972.29863	0.12455	0.10481	0.12099	0.10829	8.70E-04	5.10E-06	3.75E-06	4.95E-06	3.72E-06	8.8793E-04
520654.76	4258473.85	18960.98497	0.13187	0.13605	0.12743	0.14219	8.70E-04	5.40E-06	4.87E-06	5.22E-06	4.88E-06	8.9026E-04
520139.26	4258162.5	18960.71709	0.16672	5.06368	0.16762	5.8466	8.70E-04	6.83E-06	1.81E-04	6.86E-06	2.01E-04	1.2654E-03
519890.49	4258860.07	18953.33508	0.43956	0.3495	0.46941	0.33826	8.70E-04	1.80E-05	1.25E-05	1.92E-05	1.16E-05	9.3087E-04
520045.38	4258350.68	18937.74456	0.24313	6.88366	0.25759	5.31291	8.69E-04	9.95E-06	2.46E-04	1.05E-05	1.82E-04	1.3179E-03
520674.4	4258344.35	18935.74323	0.12047	0.13343	0.11752	0.13922	8.69E-04	4.93E-06	4.77E-06	4.81E-06	4.78E-06	8.8803E-04
520652.54	4258929.11	18890.85357	0.15118	0.09415	0.14668	0.09763	8.67E-04	6.19E-06	3.37E-06	6.01E-06	3.35E-06	8.8559E-04
520670.58	4258386.05	18886.16444	0.12253	0.13347	0.12015	0.13914	8.66E-04	5.06E-06	4.77E-06	4.92E-06	4.78E-06	8.8599E-04
520656.2	4258920.38	18882.56718	0.14921	0.09448	0.14483	0.09791	8.66E-04	6.11E-06	3.38E-06	5.93E-06	3.36E-06	8.8508E-04
520699.1	4258770.04	18880.56364	0.12561	0.10238	0.12189	0.10571	8.66E-04	5.14E-06	3.66E-06	4.99E-06	3.63E-06	8.8363E-04
520168.75	4258123.6	18879.40497	0.15652	3.1416	0.15629	3.55243	8.66E-04	6.41E-06	1.12E-04	6.40E-06	1.22E-04	1.1133E-03
519947.12	4258655.32	18873.88321	0.44857	0.84872	0.49621	0.80389	8.66E-04	1.84E-05	3.04E-05	2.03E-05	2.76E-05	9.6254E-04
520659.85	4258911.66	18868.32107	0.14726	0.09483	0.14299	0.09821	8.66E-04	6.03E-06	3.39E-06	5.85E-06	3.37E-06	8.8429E-04
520039.34	4258373.15	18866.58445	0.2603	5.62352	0.27536	4.506	8.66E-04	1.07E-05	2.01E-04	1.13E-05	1.55E-04	1.2433E-03
520663.5	4258902.93	18848.38071	0.14533	0.09518	0.14115	0.09855	8.65E-04	5.95E-06	3.40E-06	5.78E-06	3.38E-06	8.8324E-04
520658.09	4258456.72	18847.87469	0.13022	0.13531	0.1261	0.14147	8.65E-04	5.33E-06	4.84E-06	5.16E-06	4.86E-06	8.8490E-04
520685.05	4258646.48	18847.50972	0.12611	0.11731	0.1214	0.12111	8.65E-04	5.16E-06	4.20E-06	4.97E-06	4.16E-06	8.8318E-04
520667.54	4258701.95	18843.71066	0.12373	0.10948	0.11997	0.11281	8.65E-04	5.07E-06	3.92E-06	4.91E-06	3.87E-06	8.8228E-04
520099.92	4258222.38	18823.11626	0.18393	14.77425	0.18935	16.12868	8.64E-04	7.53E-06	5.28E-04	7.75E-06	5.54E-04	1.9610E-03
520695.11	4258803.51	18822.46452	0.12838	0.10022	0.12463	0.10319	8.64E-04	5.26E-06	3.58E-06	5.10E-06	3.54E-06	8.8103E-04
520678.24	4258244.23	18822.1073	0.11408	0.13592	0.11251	0.14121	8.64E-04	4.67E-06	4.86E-06	4.61E-06	4.85E-06	8.8251E-04
520667.16	4258894.21	18821.67527	0.14339	0.09554	0.13932	0.09882	8.64E-04	5.87E-06	3.42E-06	5.70E-06	3.39E-06	8.8189E-04
519886.99	4258895.85	18814.42376	0.45457	0.30896	0.4857	0.30059	8.63E-04	1.86E-05	1.11E-05	1.99E-05	1.03E-05	9.2304E-04
519913.27	4258746.2	18811.91833	0.42187	0.53069	0.45807	0.50911	8.63E-04	1.73E-05	1.90E-05	1.88E-05	1.75E-05	9.3554E-04
520661.53	4258439.88	18808.76278	0.12853	0.13462	0.12467	0.14069	8.63E-04	5.26E-06	4.82E-06	5.10E-06	4.83E-06	8.8292E-04
520694.84	4258684.46	18803.57535	0.12405	0.11171	0.11999	0.11504	8.63E-04	5.08E-06	4.00E-06	4.91E-06	3.95E-06	8.8061E-04
520670.81	4258885.48	18793.27012	0.14147	0.0959	0.1375	0.09913	8.62E-04	5.79E-06	3.43E-06	5.63E-06	3.40E-06	8.8045E-04
520055.77	4258316.43	18779.4655	0.2214	10.72754	0.2348	7.3244	8.62E-04	9.07E-06	3.84E-04	9.61E-06	2.51E-04	1.5154E-03
520700.35	4258719.18	18772.0444	0.12336	0.10709	0.1198	0.11049	8.61E-04	5.05E-06	3.83E-06	4.91E-06	3.79E-06	8.7881E-04
520674.46	4258876.76	18755.45101	0.13957	0.09623	0.13568	0.09942	8.60E-04	5.71E-06	3.44E-06	5.56E-06	3.41E-06	8.7859E-04
520045.84	4259239.92	18728.14155	6.03691	0.16501	8.39069	0.16073	8.56E-04	2.47E-04	5.90E-06	3.44E-04	5.52E-06	1.4614E-03
520096.39	4259273.23	18727.14007	11.41923	0.16484	10.49985	0.15637	8.59E-04	4.68E-04	5.90E-06	4.30E-04	5.37E-06	1.7679E-03
520674.14	4258369.51	18720.35024	0.12171	0.13267	0.11845	0.13828	8.59E-04	4.98E-06	4.75E-06	4.85E-06	4.75E-06	8.7818E-04
520678.12	4258868.03	18707.94563	0.1377	0.09649	0.13385	0.09963	8.58E-04	5.64E-06	3.45E-06	5.48E-06	3.42E-06	8.7627E-04
520158.93	4258132.57	18701.84298	0.15823	3.62666	0.15817	4.12419	8.58E-04	6.48E-06	1.30E-04

520703.97	4258710.53	18312.5041	0.12175	0.10699	0.11822	0.11027	8.40E-04	4.98E-06	3.83E-06	4.84E-06	3.79E-06	8.5758E-04
520696.38	4258824.41	18308.82451	0.12857	0.0978	0.12494	0.10064	8.40E-04	5.26E-06	3.50E-06	5.12E-06	3.46E-06	8.5731E-04
519883.24	4258890.82	18300.221	0.43293	0.31353	0.46139	0.30452	8.40E-04	1.77E-05	1.12E-05	1.89E-05	1.05E-05	8.9787E-04
519886.82	4258851.23	18291.13112	0.41751	0.35359	0.44481	0.34206	8.39E-04	1.71E-05	1.26E-05	1.82E-05	1.17E-05	8.9888E-04
520661.45	4258465.56	18290.79808	0.1293	0.13356	0.12502	0.1396	8.39E-04	5.29E-06	4.78E-06	5.12E-06	4.79E-06	8.5913E-04
520119.62	4258182.44	18287.18717	0.16965	7.82114	0.1722	9.09417	8.39E-04	6.95E-06	2.80E-04	7.05E-06	3.12E-04	1.4449E-03
520682.55	4258314.01	18274.5752	0.11676	0.13065	0.11424	0.13654	8.38E-04	4.78E-06	4.67E-06	4.68E-06	4.69E-06	8.5722E-04
520683.55	4258226.48	18268.65798	0.1117	0.13433	0.11004	0.13929	8.38E-04	4.57E-06	4.80E-06	4.51E-06	4.78E-06	8.5680E-04
520045.86	4259249.92	18251.50847	0.08114	0.16145	8.46322	0.1573	8.37E-04	2.49E-04	5.77E-06	3.47E-04	5.40E-06	1.4440E-03
519915.99	4258728.64	18247.41579	0.41155	0.56481	0.44756	0.54114	8.37E-04	1.69E-05	2.02E-05	1.83E-05	1.86E-05	9.1111E-04
520139.29	4258152.5	18239.59569	0.1615	5.06849	0.16225	5.84583	8.37E-04	6.61E-06	1.81E-04	6.64E-06	2.01E-04	1.2320E-03
520677.52	4258378.4	18236.01905	0.12107	0.13093	0.11773	0.13641	8.37E-04	4.96E-06	4.68E-06	4.82E-06	4.68E-06	8.5578E-04
520096.4	4259283.23	18232.80974	11.41462	0.16135	10.41881	0.15315	8.36E-04	4.67E-04	5.77E-06	4.27E-04	5.26E-06	1.7415E-03
520685.16	4258627.52	18213.75445	0.1254	0.11831	0.12065	0.1224	8.36E-04	5.13E-06	4.23E-06	4.94E-06	4.20E-06	8.5412E-04
520705.77	4258778.06	18208.05134	0.12338	0.10016	0.1198	0.10331	8.35E-04	5.05E-06	3.58E-06	4.91E-06	3.55E-06	8.5244E-04
520706.85	4258727.59	18201.63895	0.12132	0.10466	0.11795	0.108	8.35E-04	4.97E-06	3.74E-06	4.83E-06	3.71E-06	8.5230E-04
520056.16	4258306.28	18200.55583	0.21281	10.90763	0.22553	7.40153	8.35E-04	8.71E-06	3.90E-04	9.23E-06	2.54E-04	1.4972E-03
520700.04	4258815.68	18171.6703	0.12682	0.09794	0.12321	0.10077	8.34E-04	5.19E-06	3.50E-06	5.04E-06	3.46E-06	8.5088E-04
520168.78	4258113.6	18161.39777	0.15187	3.14367	0.15152	3.54925	8.33E-04	6.22E-06	1.12E-04	6.20E-06	1.22E-04	1.0799E-03
519881.35	4258911.69	18152.42536	0.43945	0.29428	0.46835	0.28672	8.33E-04	1.80E-05	1.02E-05	1.92E-05	9.84E-06	8.9034E-04
520685.19	4258237.2	18149.70995	0.11195	0.13305	0.1103	0.13817	8.33E-04	4.58E-06	4.76E-06	4.52E-06	4.74E-06	8.5128E-04
519898.82	4258783.7	18131.34036	0.40417	0.44486	0.43294	0.42922	8.32E-04	1.65E-05	1.59E-05	1.77E-05	1.47E-05	8.9675E-04
520682.43	4258339.55	18126.63381	0.11794	0.13023	0.11497	0.13581	8.32E-04	4.83E-06	4.66E-06	4.71E-06	4.66E-06	8.5047E-04
520055.77	4259259.9	18121.59877	8.72331	0.16041	15.97142	0.15557	8.31E-04	3.57E-04	5.74E-06	6.54E-04	5.34E-06	1.8536E-03
520099.95	4258212.38	18119.40482	0.17763	14.81669	0.18269	16.12089	8.31E-04	7.27E-06	5.30E-04	7.48E-06	5.53E-04	1.9295E-03
520009.48	4258521.48	18100.38872	0.48322	2.52748	0.54365	2.19921	8.30E-04	1.98E-05	9.04E-05	2.23E-05	7.55E-05	1.0384E-03
520659.58	4258936.25	18083.01001	0.14759	0.09199	0.14308	0.09536	8.30E-04	6.04E-06	3.29E-06	5.86E-06	3.27E-06	8.4808E-04
519906.72	4258754.54	18080.76413	0.40429	0.50035	0.43639	0.4813	8.30E-04	1.66E-05	1.79E-05	1.79E-05	1.65E-05	8.9835E-04
520663.21	4258927.58	18074.34596	0.14573	0.09228	0.14133	0.0956	8.29E-04	5.97E-06	3.30E-06	5.79E-06	3.28E-06	8.4755E-04
520681.12	4258361.99	18067.89636	0.11932	0.13005	0.11608	0.1355	8.29E-04	4.89E-06	4.65E-06	4.75E-06	4.65E-06	8.4786E-04
520695	4258656.02	18065.29259	0.12296	0.11368	0.11855	0.1172	8.29E-04	5.03E-06	4.07E-06	4.85E-06	4.02E-06	8.4678E-04
520666.84	4258918.91	18060.15705	0.14388	0.0926	0.13959	0.09588	8.29E-04	5.89E-06	3.31E-06	5.72E-06	3.29E-06	8.4678E-04
520670.47	4258910.24	18040.97771	0.14204	0.09294	0.13786	0.09617	8.28E-04	5.82E-06	3.32E-06	5.64E-06	3.30E-06	8.4577E-04
520674.1	4258901.58	18016.93882	0.1402	0.0933	0.13614	0.09648	8.27E-04	5.74E-06	3.34E-06	5.57E-06	3.31E-06	8.4455E-04
520046.71	4258330.16	18013.50923	0.2241	7.2038	0.23726	5.52231	8.26E-04	9.18E-06	2.58E-04	9.71E-06	1.90E-04	1.2926E-03
520158.96	4258122.57	18001.69824	0.15351	3.62826	0.1533	4.12425	8.26E-04	6.29E-06	1.30E-04	6.28E-06	1.42E-04	1.1098E-03
520703.69	4258806.96	18001.19786	0.12508	0.098	0.12149	0.10084	8.26E-04	5.12E-06	3.51E-06	4.97E-06	3.46E-06	8.4292E-04
520709.82	4258744.43	17996.93449	0.12083	0.10239	0.11751	0.10571	8.26E-04	4.95E-06	3.66E-06	4.81E-06	3.63E-06	8.4271E-04
520686.54	4258272.74	17990.54502	0.11354	0.13084	0.11181	0.13643	8.25E-04	4.65E-06	4.68E-06	4.58E-06	4.68E-06	8.4396E-04
520677.73	4258892.91	17988.48878	0.13838	0.09362	0.13441	0.09676	8.25E-04	5.67E-06	3.35E-06	5.50E-06	3.32E-06	8.4312E-04
519924.46	4258700.84	17976.87101	0.41223	0.6395	0.44876	0.61134	8.25E-04	1.69E-05	2.29E-05	1.84E-05	2.10E-05	9.0386E-04
520686.22	4258297.76	17969.87416	0.11497	0.12959	0.11274	0.13543	8.24E-04	4.71E-06	4.64E-06	4.62E-06	4.65E-06	8.4303E-04
520709.32	4258769.57	17957.17477	0.12179	0.10008	0.11831	0.10328	8.24E-04	4.99E-06	3.58E-06	4.84E-06	3.55E-06	8.4080E-04
520681.36	4258884.24	17955.36247	0.13657	0.09397	0.1327	0.09706	8.24E-04	5.59E-06	3.36E-06	5.43E-06	3.33E-06	8.4148E-04
520086.5	4259283.24	17953.57969	15.16056	0.15944	15.78644	0.15213	8.24E-04	6.21E-04	5.70E-06	6.46E-04	5.22E-06	2.1017E-03
520129.47	4258162.47	17948.73231	0.16296	6.19612	0.16441	7.19761	8.23E-04	6.67E-06	2.22E-04	6.73E-06	2.47E-04	1.3056E-03
519882.59	4258865.13	17944.82181	0.41184	0.33565	0.43813	0.32509	8.23E-04	1.69E-05	1.20E-05	1.79E-05	1.12E-05	8.8124E-04
520063.64	4258283.22	17942.73312	0.20113	17.72943	0.2125	9.76668	8.23E-04	8.24E-06	6.34E-04	8.70E-06	3.35E-04	1.8096E-03
520684.98	4258875.57	17918.26517	0.13477	0.09431	0.131	0.09735	8.22E-04	5.52E-06	3.37E-06	5.36E-06	3.34E-06	8.3965E-04
519947.12	4258646.05	17890.38505	0.432	0.86409	0.4772	0.81973	8.21E-04	1.77E-05	3.09E-05	1.95E-05	2.81E-05	9.1705E-04
520685.21	4258618.03	17890.24322	0.12505	0.11883	0.12035	0.12304	8.21E-04	5.12E-06	4.25E-06	4.93E-06	4.22E-06	8.3929E-04
520109.8	4258192.41	17877.88222	0.17076	10.36886	0.17441	11.80161	8.21E-04	6.99E-06	3.71E-04	7.14E-06	4.05E-04	1.6104E-03
520688.61	4258866.9	17871.31867	0.13299	0.09461	0.12929	0.0976	8.20E-04	5.45E-06	3.38E-06	5.29E-06	3.35E-06	8.3738E-04
520707.59	4258701.88	17836.46907	0.12019	0.10682	0.11665	0.10999	8.18E-04	4.92E-06	3.82E-06	4.78E-06	3.78E-06	8.3560E-04
520707.34	4258798.23	17834.99668	0.12343	0.09804	0.11987	0.10092	8.18E-04	5.05E-06	3.51E-06	4.91E-06	3.46E-06	8.3517E-04
520673.99	4258420.88	17834.33812	0.12381	0.13039	0.12017	0.13609	8.18E-04	5.07E-06	4.66E-06	4.92E-06	4.67E-06	8.3753E-04
519969.81	4258599.22	17828.75657	0.46285	1.19921	0.52534	1.11813	8.18E-04	1.90E-05	4.29E-05	2.15E-05	3.84E-05	9.3969E-04
519959.89	4258618.66	17827.56056	0.44784	1.03195	0.5018	0.97281	8.18E-04	1.83E-05	3.69E-05	2.05E-05	3.34E-05	9.2709E-04
520677.4	4258403.97	17819.45754	0.12213	0.12984	0.11863	0.13537	8.18E-04	5.00E-06	4.64E-06	4.86E-06	4.65E-06	8.3667E-04
520692.24	4258858.23	17816.50809	0.13124	0.09485	0.12759	0.09779	8.17E-04	5.37E-06	3.39E-06	5.22E-06	3.36E-06	8.3473E-04
520149.14	4258132.54	17811.78251	0.15512	4.24828	0.1552	4.87086	8.17E-04	6.35E-06	1.52E-04	6.35E-06	1.67E-04	1.1491E-03
520670.69	4258438.06	17809.35232	0.12542	0.1309	0.12159	0.13676	8.17E-04	5.14E-06	4.68E-06	4.98E-06	4.70E-06	8.3655E-04
520045.87	4259259.92	17789.34351	6.10454	0.15803	8.54294	0.15401	8.16E-04	2.50E-04	5.65E-06	3.50E-04	5.29E-06	1.4268E-03
520704.84	4258684.52	17786.05247	0.12055	0.10896	0.11671	0.11213	8.16E-04	4.94E-06	3.90E-06	4.78E-06	3.85E-06	8.3345E-04
520710.45	4258719	17785.26879	0.11977	0.10455	0.11644	0.10779	8.16E-04	4.90E-06	3.74E-06	4.77E-06	3.70E-06	8.3307E-04
520664.82	4258474.39	17784.06255	0.12836	0.13188	0.12393	0.13776	8.16E-04	5.26E-06	4.72E-06	5.07E-06	4.73E-06	8.3568E-04
520695.05	4258646.54	17778.76221	0.11423	0.13184	0.11014	0.11787	8.16E-04	5.02E-06	4.09E-06	4.84E-06	4.05E-06	8.3365E-04
520096.42	4259293.23	17763.42573	11.36135	0.15802	10.33526	0.15005	8.15E-04	4.65E-04	5.65E-06	4.23E-04	5.15E-06	1.7141E-03
519879.5	4258881.79	17755.69846	0.41219	0.31775	0.43819	0.30825	8.15E-04	1.69E-05	1.14E-05	1.79E-05	1.06E-05	8.7136E-04
520695.87	4258849.56	17750.9293	0.1295	0.09511	0.12589	0.09797	8.14E-04	5.30E-06	3.40E-06	5.15E-06	3.36E-06	8.3160E-04
520680.9	4258387.29	17749.21511	0.12042	0.12918	0.11702	0.13457	8.14E-04	4.93E-06	4.62E-06	4.79E-06	4.62E-06	8.3326E-04
519979.73	4258579.79	17736.69483	0.47589	1.41467	0.54363	1.29929	8.14E-04	1.95E-05	5.06E-05	2.23E-05	4.46E-05	9.5068E-04
519999.56	4258540.91	17727.7182	0.48745	2.04543	0.55332	1.819	8.13E-04	2.00E-05	7.32E-05	2.27E-05	6.24E-05	9.9154E-04
520685.9	4258348.68	17713.60129	0.11737	0.12854	0.11424	0.13394	8.13E-04	4.81E-06	4.60E-06	4.68E-06	4.60E-06	8.3115E-04
520712.87	4258761.09	17707.9625	0.12028	0.10006	0.11691	0.10329	8.12E-04	4.92E-06	3.58E-06	4.79E-06	3.55E-06	8.2924E-04
520027.45	4258408.01	17705.42129	0.28722	4.03022	0.30444	3.3828	8.12E-04	1.18E-05	1.44E-04	1.25E-05	1.16E-04	1.0968E-03
520668.2	4258457.4	17679.32654	0.12679	0.11109	0.12266	0.11701	8.11E-04	5.19E-06	4.69E-06	5.02E-06	4.70E-06	8.3070E-04
520699.5	4258840.9	17672.41842	0.12778	0.09536	0.12421	0.09816	8.11E-04	5.23E-06	3.41E-06	5.09E-06	3.37E-06	8.2787E-04
520028.87	4258397.44	17668.7709	0.27495	4.18292	0.29081	3.50053	8.11E-04	1.13E-05	1.50E-04	1.19E-05	1.20E-04	1.1036E-03
520690.33	4258256.83	17662.0149	0.11175	0.12991	0.11009	0.13525	8.10E-04	4.58E-06	4.65E-06	4.51E-06	4.64E-06	8.2867E-04
520689.94	4258281.66	17652.43328	0.11315	0.12893	0.11122	0.13458	8.10E-04	4.63E-06	4.61E-06	4.55E-06	4.62E-06	8.2828E-04
519989.65	4258560.35	17651.45848	0.48451	1.68792	0.55185	1.52776	8.10E-04	1.98E-05	6.04E-05	2.26E-05	5.24E-05	9.6507E-04
520022.69	4258450.19	17647.77569	0.34893	3.5502	0.37448	3.00497	8.10E-04	1.43E-05	1.27E-04	1.53E-05	1.03E-04	1.0694E-03
520713.39	4258735.9	17639.92041	0.11931	0.10226	0.11606	0.10553	8.09E-04	4.89E-06	3.66E-06	4.75E-06	3.62E-06	8.2620E-04
520711	4258789.51	17636.92227	0.12179	0.09801	0.11829	0.10096	8.09E-04	4.99E-06	3.51E-06	4.84E-06	3.47E-06	8.2595E-04
519886.25	4258825.74	17623.44082	0.3943	0.3774	0.41884	0.36489	8.09E-04	1.61E-05	1.35E-05	1.72E-05	1.25E-05	8.6788E-04
520684.48	4258370.81	17620.12075	0.1187	0.1284	0.11539	0.1337	8.08E-04	4.86E-06	4.59E-06	4.72E-06	4.59E-06	8.2714E-04
520119.65	4258172.44	17611.90221	0.16422	7.83074	0.16657	9.10763	8.08E-04	6.72E-06	2.80E-04	6.82E-06	3.13E-04	1.4143E-03
520689.64	4258306.74	17609.06478	0.1145	0.11778	0.11201	0.13153	8.08E-04	4.69E-06	4.57E-06	4.59E-06	4.58E-06	8.2630E-04
519883.15	4258842.38	17599.20413	0.39638	0.35718	0.42156	0.34554	8.07E-04	1.62E-05	1.28E-05	1.73E-05	1.19E-05	8.6555E-04
520690.88	4258219.6	17585.31389	0.10953	0.13137	0.10781	0.13614	8.07E-04	4.48E-06	4.70E-06	4.41E-06	4.67E-06	8.2505E-04
520703.13	4258832.23	17579.04295	0.12607	0.09557	0.12254	0.09832	8.06E-04	5.16E-06	3.42E-06	5.02E-06	3.38E-06	8.2347E-04
520139.32	4258142.5	17575.16661	0.1566	5.06941	0.15719	5.85904	8.06E-04	6.41E-06	1.81E-04	6.44E-06	2.01E-04	1.2016E-03
520704.89	4258675.04	17570.38647	0.12022	0.10962	0.11624	0.11281	8.06E-04	4.92E-06	3.92E-06	4.76E-06	3.87E-06	8.2357E-04
520685.26	4258608.55	17569.97017	0.12473	0.11933	0.12007	0.12363	8.06E-04	5.11E-06	4.27E-06	4.92E-06	4.24E-06	8.2461E-04
519909.53	4258737.19	17567.6603	0.39478	0.53164	0.42761	0.51047	8.06E-04	1.62E-05	1.90E-05	1.75E-05	1.75E-05	8.7618E-04
519889.27	4258808.9	17559.69366	0.39102	0.39902	0.41686	0.38567	8.06E-04	1.60E-05	1.43E-05	1.71E-05	1.32E-05	8.6620E-04
520047.25	4258319.95	17540.46536	0.21548	7.33462	0.22802	5.61451	8.05E-04	8.82E-06	2.62E-04	9.34E-06	1.93E-04	1.2780E-03
520030	4258386.98	17525.84029	0.26322	4.3102	0.27791	3.59891	8.04E-04	1.08E-05	1.54E-04	1.14E-05	1.24E-04	1.1039E-03
519937.12	4258664.6	17504.2284	0.41479	0.76352	0.45474	0.72676	8.03E-04	1.70E-05	2.73E-05	1.86E-05	2.50E-05	8.9092E-04
520086.52	4259293.24	17494.4617	15.07173	0.15614	15.59979	0.14906	8.03E-04	6.17E-04	5.58E-06	6.39E-04	5.12E-06	2.0691E-03
520695.1	4258637.05	17478.89696	0.12228	0.11474	0.11778	0.11851	8.02E-04	5.01E-06	4.10E-06	4.82E-06	4.07E-06	8.1990E-04
520692.47	4258230.3	17478.47282	0.1098	0.13019	0.10809	0.13511	8.02E-04	4.50E-06	4.66E-06	4.43E-06	4.64E-06	8.2010E-04
520706.76	4258823.56	17468.53018	0.12441	0.09576	0.1209	0.09847	8.01E-04	5.09E-06	3.43E-06	4.95E-06	3.38E-06	8.1827E-04
520099.98	4258202.38	17452.47096	0.17168	14.86159	0.17643	15.99199	8.01E-04	7.03E-06	5.32E-04	7.22E-06	5.49E-04	1.8955E-03
520051.83	4259272.06	17443.63894	7.50513	0.15542	12.08496	0.15108	8.00E-04	3.07E-04	5.56E-06	4.95E-04	5.19E-06	1.6131E-03
520036.49	4258354.35	17418.44102	0.23555	5.15313	0.24839	4.20998	7.99E-04	9.64E-06	1.84E-04	1.02E-05	1.45E-04	1.1478E-03
520714.65	4258780.78	17417.60487	0.12019	0.09795	0.11677	0.10096	7.99E-04	4.92E-06	3.50E-06	4.78E-06	3.47E-06	8.1576E-04
520716.42	4258752.61	17410.00689	0.11876	0.10007	0.11553	0.10329	7.99E-04	4.86E-06	3.58E-06	4.73E-06	3.55E-06	8.1546E-04
519892.2	4258791.85	17393.01381	0.38637	0.42216	0.41254	0.40792	7.98E-04	1.58E-05	1.51E-05	1.69E-05	1.40E-05	8.5977E-04
520054.41	4258297.01	17383.71009	0.20354	9.92769	0.21547	6.99899	7.98E-04	8.33E-06	3.55E-04	8.82E-06	2.40E-04	1.4101E-03
519900.14	4258762.77	17373.18774	0.38723	0.47281	0.41598	0.45583	7.97E-04	1.59E-05	1.69E-05	1.70E-05	1.56E-05	8.6250E-04
520063.95	4258273.1	17362.33975	0.19382	18.06496	0.20457	9.84206	7.97E-04	7.94E-06	6.46E-04	8.38E-06	3.38E-04	1.7969E-03
520714.04	4258710.4	17352.6035	0.11827	0.10441	0.11494	0.10753	7.96E-04	4.84E-06	3.73E-06	4.71E-06	3.69E-06	8.1308E-04
520711.21	4258693.23	17347.04686	0.11868	0.10659	0.11509	0.10967	7.96E-04	4.86E-06	3.81E-06	4.71E-06	3.77E-06	8.1300E-04
520710.39	4258814.89	17338.86817	0.12277	0.09588	0.11929	0.09858	7.95E-04	5.03E-06	3.43E-06	4.88E-06	3.38E-06	8.1220E-04
520159	4258112.57	17337.11544	0.14901	3.62941	0.14869	4.12012	7.95E-04	6.10E-06	1.30E-04	6.09E-06	1.41E-04	1.0788E-03
520693.71	4258265.69	17336.98739	0.11137	0.12806	0.10961	0.13347	7.95E-04	4.56E-06	4.58E-06	4.49E-06	4.58E-06	8.1360E-04
519918.02	4258709.44	17335.57702	0.39584	0.59975	0.42946	0.57453	7.95E-04	1.62E-05	2.15E-05	1.76E-05	1.97E-05	8.7029E-04
519874.04	4258918.7	17332.56187	0.41594	0.28323	0.44189	0.27603	7.95E-04	1.70E-05	1.01E-05	1.81E-05	9.48E-06	8.4991E-04
520704.94	4258665.56	17331.23255	0.1199	0.11018	0.11579	0.11345	7.95E-04	4.91E-06	3.94E-06	4.74E-06	3.89E-06	8.1261E-04
520668.18	4258483.23	17327.22142	0.12743	0.1302	0.12285	0.13591	7.95E-04	5.22E-06	4.66E-06	5.03E-06	4.67E-06	8.1451E-04
520693.33	4258290.58	17319.09193	0.11275	0.12695	0.11057	0.13262	7.95E-04	4.62E-06	4.54E-06	4.53E-06	4.55E-06	8.1280E-04
519878.81	4258856.03	17298.15331	0.39113	0.33927	0.4151	0.32855	7.94E-04	1.60E-05	1.21E-05	1.70E-05	1.13E-05	8.5003E-04
520689.38	4258357.8	17292.47879	0.11678	0.12687	0.11353	0.13211	7.93E-04	4.78E-06	4.45E-06	4.54E-06	4.54E-06	8.1185E-04
520129.5	4258152.47	17291.22682	0.15791	6.20159	0.15923	7.20094	7.93E-04	6.47E-06	2.22E-04	6.52E-06	2.47E-04	1.2753E-03
520030.94	4258376.61	17288.1181	0.25209	4.41898	0.26579	3.68365	7.93E-04	1.03E-05	1.58E-04	1.09E-05	1.26E-04	1.0989E-03
520680.82	4258412.93	17285.09424	0.1214	0.12805	0.11784	0.13354	7.93E-04	4.97E-06	4.58E-06	4.82E-06	4.58E-06	8.1197E-04
520677.44	4258429.92	17269.2358	0.123	0.1286	0.11928	0.13426	7.92E-04	5.04E-06	4.60E-06	4.88E-06	4.61E-06	8.1141E-04
520716.97	4258727.36	17263.68346	0.11781	0.10216	0.11462	0.10534	7.92E-04	4.82E-06	3.65E-06	4.69E-06	3.62E-06	8.0881E-04
520684.29	4258396.18	17259.49001	0.11976	0.12742	0.11629	0.13276	7.92E-04	4.90E-06	4.56E-06	4.76E-06	4.56E-06	8.1061E-04
520685.32	4258599.07	17257.36996	0.12441	0.1198	0.11981	0.12417	7.92E-04	5.09E-06	4.29E-06	4.91E-06	4.26E-06	8.1028E-04
520693.06	4258315.73	17251.83448	0.114	0.12632	0.11129	0.1319	7.91E-04	4.67E-06	4.52E-06	4.56E-06	4.53E-06	8.0975E-04
520109.83	4258182.41	17225.52692	0.16523	10.38728	0.16864	11.79446	7.90E-04	6.77E-06	3.72E-04	6.90E-06	4.05E-04	1.5804E-03
520714.02	4258806.22	17183.41816	0.12115	0.09593	0.11771	0.09865	7.88E-04	4.96E-06	3.43E-06	4.82E-06	3.39E-06	8.0494E-04
519875.75	4258872.76	17180.76239	0.39225	0.32153	0.41601	0.3117	7.88E-04	1.61E-05	1.15E-05	1.70E-05	1.07E-05	8.4352E-04
520718.3	4258772.05	17176.27324	0.11864	0.09786	0.11531	0.10093	7.88E-04	4.86E-06	3.50E-06	4.72E-06	3.47E-06	8.0456E-04
520671.53	4258466.16	17174.11015	0.1259	0.12942	0.12163	0.13521	7.88E-04	5.15E-06	4.63E-06	4.98E-06	4.64E-06	8.0732E-04
520687.84	4258379.63	17173.25566	0.11809	0.12672	0.11471	0.13193	7.88E-04	4.84E-06	4.53E-06	4.70E-06	4.53E-06	8.0647E-04
520695.16	4258627.57	17170.58791	0.12195	0.11152	0.11745	0.11911	7.88E-04	4.99E-06	4.12E-06	4.81E-06	4.09E-06	8.0577E-04
520092.31	4259304.47	17150.56632	12.72305	0.15367	11.94546	0.14631	7.87E-04	5.21E-04	5.50E-06	4.89E-04	5.02E-06	1.8074E-03
520149.18	4258122.54	17150.441	0.15048	4.25158	0.1505	4.86062	7.87E-04	6.16E-06	1.52E-04	6.16E-06	1.67E-04	1.1181E-03
520009.44	4258511.78	17145.172	0.45302	2.55742	0.50431	2.22523	7.87E-04	1.85E-05	9.15E-05	2.08E-05	7.64E-05	9.9365E-04
520041.93	4259272.07	17133.49297	5.38645	0.15319	7.24762	0.14956	7.86E-04	2.21E-04	5.48E-06	2.97E-04	5.13E-06	1.3140E-03
519872.52	4258908.12	17128.07961	0.40401	0.29013	0.4286	0.28229	7.86E-04	1.65E-05	1.04E-05	1.75E-05	9.69E-06	8.3996E-04
519895.03	4258774.56	17108.32386	0.38019	0.44694	0.40671	0.43168	7.85E-04	1.56E-05	1.60E-05	1.67E-05	1.48E-05	8.4792E-04
520692.89	4258341.17	17100.934	0.11151	0.12598	0.11022	0.13125	7.85E-04	4.71E-06	4.51E-06	4.59E-06	4.51E-06	8.0287E-04
520719.97	4258744.13	17091.6466	0.11726	0.10002	0.11416	0.1032	7.84E-04	4.80E-06	3.58E-06	4.67E-06	3

520677.64	4258456.32	16710.68648	0.12366	0.12739	0.11958	0.13308	7.67E-04	5.06E-06	4.56E-06	4.90E-06	4.57E-06	7.8574E-04
520092.32	4259314.47	16706.97309	12.82561	0.15053	11.83066	0.1434	7.66E-04	5.25E-04	5.38E-06	4.84E-04	4.92E-06	1.7863E-03
520700.46	4258283.43	16702.51377	0.11059	0.12442	0.10846	0.12992	7.66E-04	4.53E-06	4.45E-06	4.44E-06	4.46E-06	7.8416E-04
520701.12	4258259.29	16699.33494	0.10925	0.12521	0.10744	0.13046	7.66E-04	4.47E-06	4.48E-06	4.40E-06	4.48E-06	7.8396E-04
519885.54	4258799.92	16694.82215	0.36958	0.40131	0.39347	0.38831	7.66E-04	1.51E-05	1.44E-05	1.61E-05	1.33E-05	8.2485E-04
520685.42	4258580.11	16680.68189	0.12382	0.12082	0.11928	0.12522	7.65E-04	5.07E-06	4.32E-06	4.88E-06	4.30E-06	7.8385E-04
520129.54	4258142.47	16673.09348	0.15314	6.2048	0.15432	7.20189	7.65E-04	6.27E-06	2.22E-04	6.32E-06	2.47E-04	1.2467E-03
519959.85	4258608.96	16664.70385	0.42975	1.05064	0.48197	0.98977	7.65E-04	1.76E-05	3.76E-05	1.97E-05	3.40E-05	8.7343E-04
520700.13	4258308.43	16646.94528	0.11183	0.12367	0.10917	0.12913	7.64E-04	4.58E-06	4.42E-06	4.47E-06	4.43E-06	7.8164E-04
520714.89	4258675.09	16636.15803	0.1169	0.10689	0.11313	0.10994	7.63E-04	4.79E-06	3.82E-06	4.63E-06	3.77E-06	7.8026E-04
520725.61	4258754.6	16635.16912	0.11564	0.09777	0.11257	0.10087	7.63E-04	4.73E-06	3.50E-06	4.61E-06	3.46E-06	7.7949E-04
519937.12	4258655.32	16628.65181	0.40029	0.77694	0.43836	0.7405	7.63E-04	1.64E-05	2.78E-05	1.79E-05	2.54E-05	8.5044E-04
519875.04	4258846.93	16625.47711	0.37132	0.34244	0.39345	0.33171	7.63E-04	1.52E-05	1.22E-05	1.61E-05	1.14E-05	8.1769E-04
520109.86	4258172.41	16614.49276	0.16002	10.40377	0.1632	11.81847	7.62E-04	6.55E-06	3.72E-04	6.68E-06	4.06E-04	1.5533E-03
520724.91	4258780.21	16596.98357	0.11653	0.09578	0.11329	0.09869	7.61E-04	4.77E-06	3.43E-06	4.64E-06	3.39E-06	7.7766E-04
520051.86	4259292.06	16595.42506	7.30459	0.14925	12.41777	0.14512	7.61E-04	2.99E-04	5.34E-06	5.08E-04	4.98E-06	1.5792E-03
519872.01	4258863.73	16580.74354	0.3732	0.32483	0.39496	0.31488	7.61E-04	1.53E-05	1.16E-05	1.62E-05	1.08E-05	8.1457E-04
519969.77	4258589.53	16571.40155	0.4426	1.2229	0.50181	1.13712	7.60E-04	1.81E-05	4.37E-05	2.05E-05	3.90E-05	8.8171E-04
519999.52	4258531.21	16559.24122	0.45934	2.07456	0.51681	1.84421	7.60E-04	1.88E-05	7.42E-05	2.12E-05	6.33E-05	9.3719E-04
520695.26	4258608.61	16555.11295	0.12135	0.1161	0.11691	0.12023	7.60E-04	4.97E-06	4.15E-06	4.79E-06	4.13E-06	7.7755E-04
519920.79	4258692	16552.30571	0.38406	0.63573	0.41656	0.60863	7.59E-04	1.57E-05	2.27E-05	1.71E-05	2.09E-05	8.3580E-04
520149.21	4258112.54	16537.47067	0.14611	4.25292	0.14604	4.85883	7.59E-04	5.98E-06	1.52E-04	5.98E-06	1.67E-04	1.0896E-03
520705.1	4258637.11	16508.32819	0.11894	0.11176	0.11467	0.11538	7.57E-04	4.87E-06	4.70E-06	4.70E-06	3.96E-06	7.7489E-04
519868.5	4258886.57	16496.72798	0.37675	0.30316	0.39842	0.29428	7.57E-04	1.54E-05	1.08E-05	1.63E-05	1.01E-05	8.0952E-04
520724.11	4258710.29	16463.22722	0.11493	0.10186	0.11176	0.10484	7.55E-04	4.71E-06	3.64E-06	4.58E-06	3.60E-06	7.7183E-04
519888.44	4258782.79	16450.99941	0.3644	0.42394	0.38846	0.41013	7.55E-04	1.49E-05	1.52E-05	1.59E-05	1.41E-05	8.1481E-04
520721.24	4258693.22	16445.12209	0.11537	0.10399	0.11197	0.10692	7.54E-04	4.72E-06	3.72E-06	4.58E-06	3.67E-06	7.7117E-04
519979.69	4258570.09	16444.64425	0.45294	1.43973	0.51339	1.32095	7.54E-04	1.85E-05	5.15E-05	2.10E-05	4.53E-05	8.9086E-04
520082.42	4259314.48	16444.11344	15.90091	0.14861	18.91807	0.14235	7.54E-04	6.51E-04	5.32E-06	7.75E-04	4.89E-06	2.1903E-03
520696.33	4258376.05	16428.13875	0.11554	0.12356	0.11217	0.12858	7.54E-04	4.73E-06	4.42E-06	4.59E-06	4.41E-06	7.7185E-04
520685.48	4258570.63	16423.66438	0.12356	0.12118	0.11899	0.12561	7.53E-04	5.06E-06	4.33E-06	4.87E-06	4.31E-06	7.7206E-04
520009.4	4258502.08	16422.74489	0.42546	2.58246	0.4689	2.24849	7.53E-04	1.74E-05	9.24E-05	1.92E-05	7.72E-05	9.5963E-04
520704.83	4258243.18	16418.40152	0.10758	0.1243	0.10579	0.12931	7.53E-04	4.40E-06	4.45E-06	4.33E-06	4.44E-06	7.7087E-04
520714.94	4258665.61	16405.32534	0.1166	0.10746	0.11272	0.11058	7.53E-04	4.77E-06	3.84E-06	4.62E-06	3.80E-06	7.6967E-04
520727.08	16395.32902	0.11441	0.09979	0.11142	0.10283	7.52E-04	4.68E-06	3.57E-06	4.56E-06	3.53E-06	7.6853E-04	
519989.61	4258550.65	16394.64822	0.45857	1.71424	0.51831	1.55112	7.52E-04	1.88E-05	6.13E-05	2.12E-05	5.33E-05	9.0672E-04
520055.27	4258276.69	16388.0124	0.18927	10.27597	0.20006	7.19542	7.52E-04	7.75E-06	3.68E-04	8.19E-06	2.47E-04	1.3824E-03
520703.84	4258292.29	16385.68651	0.11017	0.12269	0.1078	0.12815	7.52E-04	4.51E-06	4.39E-06	4.41E-06	4.40E-06	7.6946E-04
520704.6	4258268.42	16385.0199	0.10885	0.12339	0.10691	0.12871	7.52E-04	4.46E-06	4.38E-06	4.41E-06	4.42E-06	7.6938E-04
519865.27	4258915.14	16378.19053	0.38344	0.2793	0.4056	0.27184	7.51E-04	1.57E-05	9.99E-06	1.66E-05	9.33E-06	8.0303E-04
520119.72	4258152.44	16376.82808	0.15423	7.84537	0.15623	9.12063	7.51E-04	6.31E-06	2.81E-04	6.40E-06	3.13E-04	1.3578E-03
520038.72	4258323.47	16364.16915	0.20958	5.48863	0.22093	4.45692	7.51E-04	8.58E-06	1.96E-04	9.05E-06	1.53E-04	1.1177E-03
520728.54	4258771.55	16353.09758	0.11505	0.09566	0.11191	0.09863	7.50E-04	4.71E-06	3.42E-06	4.58E-06	3.39E-06	7.6635E-04
519905.8	4258728.19	16352.48618	0.36972	0.53141	0.3993	0.51071	7.50E-04	1.51E-05	1.90E-05	1.63E-05	1.75E-05	8.1825E-04
520139.39	4258122.5	16331.21059	0.14742	5.07602	0.14784	5.84708	7.49E-04	6.04E-06	1.82E-04	6.05E-06	2.01E-04	1.1436E-03
519896.47	4258753.92	16325.19281	0.36457	0.47363	0.39049	0.45716	7.49E-04	1.49E-05	1.69E-05	1.60E-05	1.57E-05	8.1252E-04
520729.26	4258745.88	16324.87562	0.11418	0.09772	0.11123	0.10078	7.49E-04	4.67E-06	3.50E-06	4.55E-06	3.46E-06	7.6514E-04
520699.79	4258359.27	16318.79892	0.11395	0.11282	0.11067	0.12777	7.49E-04	4.67E-06	4.39E-06	4.53E-06	4.39E-06	7.6665E-04
520041.96	4259292.07	16314.972	5.32238	0.14715	7.38698	0.14369	7.48E-04	2.18E-04	5.26E-06	3.02E-04	4.93E-06	1.2791E-03
520703.53	4258317.35	16314.50015	0.11132	0.12227	0.10847	0.12756	7.48E-04	4.56E-06	4.37E-06	4.44E-06	4.38E-06	7.6623E-04
519927.12	4258673.87	16292.10239	0.38505	0.69152	0.41874	0.66105	7.47E-04	1.58E-05	2.47E-05	1.71E-05	2.27E-05	8.2779E-04
520678.21	4258483.68	16291.78551	0.12408	0.12636	0.11958	0.13182	7.47E-04	5.08E-06	4.52E-06	4.90E-06	4.53E-06	7.6646E-04
520064.49	4258252.91	16282.52963	0.18054	18.60954	0.19014	10.03676	7.47E-04	7.39E-06	6.66E-04	7.79E-06	3.45E-04	1.7724E-03
520045.53	4258300.68	16280.5128	0.19815	6.84725	0.20938	5.33975	7.47E-04	8.11E-06	2.45E-04	8.57E-06	1.83E-04	1.1918E-03
520092.34	4259324.47	16276.83213	12.95923	0.14748	11.70976	0.14057	7.47E-04	5.31E-04	5.28E-06	4.79E-04	4.83E-06	1.7660E-03
520691.06	4258413.95	16269.12062	0.11835	0.12401	0.1148	0.12929	7.46E-04	4.85E-06	4.44E-06	4.70E-06	4.44E-06	7.6482E-04
520694.56	4258397.28	16260.7368	0.1168	0.12339	0.11333	0.1285	7.46E-04	4.78E-06	4.41E-06	4.64E-06	4.41E-06	7.6426E-04
520695.32	4258399.13	16257.05741	0.12105	0.11657	0.11667	0.12076	7.46E-04	4.96E-06	4.17E-06	4.78E-06	4.15E-06	7.6388E-04
520687.64	4258430.85	16241.9711	0.11986	0.12459	0.11617	0.13003	7.45E-04	4.91E-06	4.46E-06	4.76E-06	4.46E-06	7.6373E-04
520100.05	4258182.38	16221.96072	0.16072	14.92564	0.16498	15.50809	7.44E-04	6.58E-06	5.34E-04	6.75E-06	5.32E-04	1.8238E-03
520681.11	4258465.44	16218.48367	0.12276	0.12574	0.11855	0.13131	7.44E-04	5.03E-06	4.50E-06	4.85E-06	4.51E-06	7.6296E-04
520705.16	4258627.63	16213.19634	0.11865	0.11219	0.11438	0.11595	7.44E-04	4.86E-06	4.01E-06	4.68E-06	3.98E-06	7.6137E-04
520685.53	4258561.14	16193.83258	0.1233	0.12158	0.11869	0.12602	7.43E-04	5.05E-06	4.35E-06	4.86E-06	4.33E-06	7.6153E-04
519866.94	4258875.98	16178.80738	0.36493	0.30071	0.38546	0.30049	7.42E-04	1.49E-05	1.11E-05	1.58E-05	1.03E-05	7.9437E-04
519875.82	4258824.69	16161.58274	0.35726	0.36243	0.37853	0.35122	7.41E-04	1.46E-05	1.30E-05	1.55E-05	1.21E-05	7.9661E-04
520703.32	4258342.69	16160.78692	0.11236	0.12194	0.1092	0.12692	7.41E-04	4.60E-06	4.36E-06	4.47E-06	4.36E-06	7.5922E-04
520715	4258656.13	16154.67269	0.1163	0.10799	0.11234	0.11121	7.41E-04	4.76E-06	3.86E-06	4.60E-06	3.82E-06	7.5819E-04
519863.68	4258904.54	16141.51843	0.37215	0.28558	0.39307	0.27763	7.41E-04	1.52E-05	1.02E-05	1.61E-05	9.53E-06	7.9162E-04
520052.7	4259304.53	16116.6157	7.50665	0.1457	13.47389	0.14166	7.39E-04	3.07E-04	5.21E-06	5.52E-04	4.86E-06	1.6085E-03
520708.29	4258252.24	16116.42076	0.1072	0.12258	0.10537	0.12767	7.39E-04	4.39E-06	4.38E-06	4.31E-06	4.38E-06	7.5686E-04
520732.17	4258762.88	16105.73713	0.11363	0.09558	0.1106	0.09857	7.39E-04	4.65E-06	3.42E-06	4.53E-06	3.38E-06	7.5488E-04
520129.57	4258132.47	16092.25774	0.14862	6.20763	0.14967	7.21008	7.38E-04	6.09E-06	2.22E-04	6.13E-06	2.48E-04	1.2201E-03
519891.24	4258765.42	16086.67476	0.35767	0.4483	0.38214	0.43332	7.38E-04	1.46E-05	1.60E-05	1.56E-05	1.49E-05	7.9923E-04
520708.07	4258277.54	16076.39943	0.10845	0.12162	0.10631	0.12697	7.38E-04	4.44E-06	4.35E-06	4.35E-06	4.36E-06	7.5506E-04
520707.21	4258301.16	16073.37917	0.10972	0.12112	0.10712	0.12648	7.37E-04	4.49E-06	4.33E-06	4.39E-06	4.34E-06	7.5497E-04
520109.9	4258162.41	16042.15075	0.15511	10.41422	0.15806	11.86834	7.36E-04	6.35E-06	3.73E-04	6.47E-06	4.07E-04	1.5288E-03
520727.69	4258701.76	16041.50044	0.11334	0.10165	0.11034	0.10454	7.36E-04	4.65E-06	3.64E-06	4.52E-06	3.59E-06	7.5234E-04
519878.86	4258807.91	16037.97881	0.35385	0.3821	0.37562	0.37021	7.36E-04	1.45E-05	1.37E-05	1.54E-05	1.27E-05	7.9204E-04
520082.44	4259324.48	16034.1997	15.91924	0.14565	18.63394	0.13957	7.36E-04	6.52E-04	5.21E-06	7.63E-04	4.79E-06	2.1604E-03
519914.39	4258700.67	16033.29726	0.37022	0.59668	0.39979	0.5726	7.36E-04	1.52E-05	2.13E-05	1.64E-05	1.97E-05	8.0810E-04
520730.63	4258718.68	16023.80271	0.11304	0.09965	0.11006	0.10258	7.35E-04	4.63E-06	3.56E-06	4.51E-06	3.52E-06	7.5136E-04
520027.61	4258358.01	16006.97461	0.2282	4.05937	0.23976	3.43629	7.34E-04	9.34E-06	1.45E-04	9.82E-06	1.18E-04	1.0167E-03
520732.92	4258737.15	15994.72809	0.11277	0.09761	0.10988	0.10061	7.34E-04	4.62E-06	3.49E-06	4.50E-06	3.45E-06	7.4987E-04
520685.58	4258551.66	15993.18904	0.12305	0.12188	0.11839	0.12637	7.34E-04	5.04E-06	4.36E-06	4.85E-06	4.34E-06	7.5232E-04
520699.8	4258385.18	15991.63159	0.11491	0.12188	0.11149	0.12684	7.34E-04	4.70E-06	4.36E-06	4.56E-06	4.35E-06	7.5165E-04
520030.18	15986.17555	0.26529	3.39902	0.2803	2.92213	7.33E-04	1.09E-05	1.22E-04	1.15E-05	1.00E-04	9.7765E-04	
520039.28	4258313.25	15982.96698	0.20192	5.5738	0.21284	4.52268	7.33E-04	8.27E-06	1.99E-04	8.71E-06	1.55E-04	1.1049E-03
520680.86	4258510.71	15977.06868	0.12373	0.12466	0.11898	0.1297	7.33E-04	5.07E-06	4.46E-06	4.87E-06	4.45E-06	7.5185E-04
520724.83	4258684.63	15976.98525	0.11397	0.10371	0.11053	0.10659	7.33E-04	4.67E-06	3.71E-06	4.53E-06	3.66E-06	7.4955E-04
520695.37	4258589.65	15974.32189	0.12077	0.11705	0.11643	0.12127	7.33E-04	4.94E-06	4.19E-06	4.77E-06	4.16E-06	7.5093E-04
520021.48	4258390.5	15959.73454	0.25451	3.50495	0.26837	3.00751	7.32E-04	1.04E-05	1.25E-04	1.10E-05	1.03E-04	9.8223E-04
519868.26	4258854.71	15954.96669	0.35492	0.32767	0.37502	0.31773	7.32E-04	1.45E-05	1.17E-05	1.54E-05	1.09E-05	7.8450E-04
520012.66	4258474.56	15943.87679	0.3708	2.81823	0.40094	2.43911	7.31E-04	1.52E-05	1.01E-04	1.64E-05	8.37E-05	9.4761E-04
519871.27	4258837.83	15933.10801	0.35247	0.34501	0.37293	0.33446	7.31E-04	1.44E-05	1.23E-05	1.53E-05	1.15E-05	7.8450E-04
520681.2	4258501.58	15928.68257	0.12344	0.12473	0.11876	0.12989	7.31E-04	5.05E-06	4.46E-06	4.86E-06	4.46E-06	7.4961E-04
520009.36	4258492.38	15920.10755	0.40069	2.60367	0.43773	2.2687	7.30E-04	1.64E-05	9.31E-05	1.79E-05	7.79E-05	9.3573E-04
520703.23	4258368.33	15919.55494	0.11336	0.12124	0.11002	0.12609	7.30E-04	4.64E-06	4.34E-06	4.50E-06	4.33E-06	7.4817E-04
520705.21	4258618.15	15917.20986	0.11837	0.1126	0.11412	0.11648	7.30E-04	4.85E-06	4.03E-06	4.67E-06	4.00E-06	7.4780E-04
520681.54	4258492.44	15916.95774	0.12316	0.12493	0.1186	0.13019	7.30E-04	5.04E-06	4.46E-06	4.86E-06	4.47E-06	7.4908E-04
520055.63	4258266.55	15908.04325	0.18274	10.42051	0.19302	7.27358	7.30E-04	7.48E-06	3.73E-04	7.90E-06	2.50E-04	1.3677E-03
520015.77	4258442.74	15899.95718	0.31785	3.05378	0.33934	2.63912	7.29E-04	1.30E-05	1.09E-04	1.39E-05	9.06E-05	9.5620E-04
520715.05	4258646.65	15890.04704	0.11601	0.10847	0.112	0.11181	7.29E-04	4.75E-06	3.88E-06	4.59E-06	3.84E-06	7.4606E-04
520092.36	4259334.47	15870.98586	12.9653	0.14457	11.59682	0.13786	7.28E-04	5.31E-04	5.17E-06	4.75E-04	4.73E-06	1.7437E-03
520046.09	4258290.46	15866.78021	0.19123	6.96703	0.20198	5.43134	7.28E-04	7.83E-06	2.49E-04	8.27E-06	1.86E-04	1.1797E-03
519861.99	4258893.9	15860.51045	0.36058	0.29172	0.38032	0.28337	7.28E-04	1.48E-05	1.04E-05	1.56E-05	9.73E-06	7.7815E-04
520022.54	4258380.08	15856.19319	0.24427	3.59457	0.25711	3.08006	7.27E-04	1.00E-05	1.29E-04	1.05E-05	1.06E-04	9.8229E-04
520042.8	4259304.55	15852.07143	5.44814	0.14368	7.74943	0.14029	7.27E-04	2.23E-04	5.14E-06	3.17E-04	4.82E-06	1.2776E-03
520712.03	4258236.19	15848.33141	0.10558	0.12173	0.10374	0.12656	7.27E-04	4.32E-06	4.35E-06	4.25E-06	4.34E-06	7.4436E-04
520735.8	4258754.21	15832.49589	0.11224	0.09551	0.10932	0.09849	7.26E-04	4.60E-06	3.42E-06	4.48E-06	3.38E-06	7.4223E-04
519881.82	4258790.94	15825.93432	0.34941	0.40296	0.37145	0.39036	7.26E-04	1.43E-05	1.44E-05	1.52E-05	1.34E-05	7.8339E-04
520685.64	4258542.18	15823.70812	0.12281	0.12219	0.11812	0.12674	7.26E-04	5.03E-06	4.37E-06	4.84E-06	4.35E-06	7.4455E-04
520711.74	4258261.3	15820.43565	0.10683	0.12077	0.10488	0.12595	7.26E-04	4.37E-06	4.32E-06	4.29E-06	4.32E-06	7.4312E-04
520119.75	4258142.44	15816.31654	0.14965	7.84944	0.15148	9.15061	7.26E-04	6.13E-06	2.81E-04	6.20E-06	3.14E-04	1.3329E-03
519899.32	4258736.69	15799.36067	0.35593	0.50149	0.38285	0.483	7.25E-04	1.46E-05	1.79E-05	1.57E-05	1.66E-05	7.8961E-04
520697.92	4258406.1	15797.72005	0.11611	0.12178	0.11263	0.12686	7.25E-04	4.75E-06	4.36E-06	4.61E-06	4.36E-06	7.4285E-04
520028.6	4258347.62	15788.40846	0.21963	4.15991	0.23065	3.51465	7.24E-04	8.99E-06	1.49E-04	9.44E-06	1.21E-04	1.0122E-03
520694.44	4258422.84	15780.54074	0.11761	0.12237	0.11401	0.12762	7.24E-04	4.82E-06	4.38E-06	4.67E-06	4.38E-06	7.4222E-04
520724.89	4258675.15	15772.31763	0.1137	0.10426	0.11013	0.10718	7.24E-04	4.66E-06	3.73E-06	4.51E-06	3.68E-06	7.4018E-04
520684.58	4258474.57	15769.82912	0.12183	0.12422	0.11753	0.12963	7.23E-04	4.99E-06	4.44E-06	4.81E-06	4.45E-06	7.4218E-04
520711.54	4258286.67	15769.63206	0.10801	0.12	0.10567	0.1253	7.23E-04	4.42E-06	4.29E-06	4.33E-06	4.30E-06	7.4082E-04
520139.42	4258112.5	15767.30283	0.1432	5.07727	0.14353	5.84917	7.23E-04	5.86E-06	1.82E-04	5.88E-06	2.01E-04	1.1175E-03
519937.12	4258646.05	15766.53398	0.38661	0.78932	0.42324	0.75345	7.23E-04	1.58E-05	2.82E-05	1.73E-05	2.59E-05	8.1060E-04
520710.59	4258310.02	15762.68806	0.10925	0.11969	0.10644	0.12489	7.23E-04	4.47E-06	4.28E-06	4.36E-06	4.29E-06	7.4056E-04
520691.05	4258439.81	15743.21699	0.11906	0.12296	0.11528	0.12836	7.22E-04	4.87E-06	4.40E-06	4.72E-06	4.41E-06	7.4067E-04
520052.72	4259314.53	15729.71568	7.49717	0.14282	13.7302	0.1389	7.22E-04	3.07E-04	5.11E-06	5.62E-04	4.77E-06	1.6007E-03
520687.76	4258457.04	15725.34115	0.12047	0.12357	0.11644	0.12903	7.21E-04	4.93E-06	4.42E-06	4.77E-06	4.43E-06	7.4000E-04
520695.42	4258580.16	15708.02879	0.12049	0.11758	0.11618	0.12179	7.21E-04	4.93E-06	4.21E-06	4.76E-06	4.18E-06	7.3873E-04
520685.69	4258532.7	15688.62408	0.12259	0.12249	0.11788	0.12713	7.20E-04	5.02E-06	4.38E-06	4.83E-06	4.36E-06	7.3836E-04
520100.08	4258172.38	15675.462	0.15576	14.96626	0.15973	15.6528	7.19E-04	6.38E-06	5.35E-04	6.54E-06	5.37E-04	1.8048E-03
519908.44	4258710.45	15673.58459	0.35967	0.5619	0.38766	0.53997	7.19E-04	1.47E-05	2.01E-05	1.59E-05	1.85E-05	7.8831E-04
520243.35	15667.68562	0.17396	16.89893	0.18306	9.64845	7.16E-04	7.12E-06	6.04E-04	7.50E-06	3.31E-04	1.60915-03	
520736.57	4258728.43	15648.81295	0.11137	0.09755	0.10856	0.10045	7.18E-04	4.56E-06	3.49E-06	4.44E-06	3.45E-06	7.3388E-04
520082.46	4259334.48	15642.35225	15.82203	0.1428	18.37836	0.1369	7.18E-04	6.48E-04	5.11E-06	7.52E-04	4.70E-06	2.1278E-03
520734.18	4258710.19	15638.52723	0.11169	0.09952	0.10872	0.10234	7.17E-04	4.57E-06	3.56E-06	4.45E-06	3.51E-06	7.3356E-04
519999.48	4258521.52	15627.62468	0.43308	2.10159	0.4833	1.86737	7.17E-04	1.77E-05	7.52E-05	1.98E-05	6.41E-05	8.9377E-04
520705.26	4258608.67	15624.9238	0.1181	0.11301	0.11389	0.11698	7.17E-04	4.84E-06	4.04E-06	4.66E-06	4.02E-06	7.3440E-04
519940.89	4258618.7	15622.58145	0.40001	0.93111	0.44393	0.88381	7.17E-04	1.64E-05	3.33E-05	1.82E-05	3.03E-05	8.1493E-04
520715.1	4258637.17	15614.47807	0.11574	0.10887	0.11169	0.11235	7.16E-04	4.74E-06	3.89E-06	4.57E-06	3.86E-06	7.3343E-04
520731.26	4258693.22	15610.11702	0.11218	0.10147	0.10896	0.10427	7.16E-04	4.59E-06	3.63E-06	4.46E-06	3.58E-06	7.3243E-04
520685.75	4258523.22	15586.73664	0.11228	0.12268	0.11767	0.12744	7.15E-04	5.01E-06	4.39E-06	4.82E-06	4.38E-06	7.3368E-04
520715.45	4258245.19	15562.19976	0.10521	0.1201	0.10336	0.12501	7.14E-04	4.31E-06	4.30E-06	4.23E-06	4.29E-06	7.3109E-04
519959.81	4258599.26	15555.50399	0.41254	1.06971	0.46281	1.00599	7.14E-04	1.69E-05	3.83E-05	1.89E-05	3.45E-05	8.2230E-04
520724.94	4258665.67	15548.99997	0.11343	0.10481	0.10976	0.1078	7.13E-04	4.64E-06	3.75E-06	4.49E-06	3.70E-06	7.2995E-04
520129.6	4258122.47	15546.10156	0.14433	6.2087	0.14526	7.22412	7.13E-04	5.91E-06	2.22E-04	5.95E-06	2.48E-04	1.1952E-03
520703.28	4258394.31	15544.68814	0.11424	0.12024	0.11081	0.12516	7.13E-04	4.68E-06	4.30E-06	4.54E-06	4.30E-06	7.3097E-04
520739.43	4258745.54	15535.96152	0.11087	0.09545	0.10806	0.09839	7.13E-04	4.54E-06	3.41E-06	4.42E-06	3.38E-06	7.2852E-04
520029.45	4258337.28	15532.31925	0.21151	4.24793	0.22205	3.58367	7.13E-04	8.66E-06	1.52E-04	9.09E-06	1.23E-04	1.0053E-03
520715.19	4258270.36	15526.97125	0.10644	0.11905	0.10432	0.12427	7.12E-04	4.36E-06	4.26E-06	4.27E-06	4.27E-06	7.

519902.06	4258719.18	15174.16914	0.34655	0.52989	0.37302	0.50981	6.96E-04	1.42E-05	1.90E-05	1.53E-05	1.75E-05	7.6208E-04
520734.83	4258684.69	15170.27029	0.11085	0.10122	0.1076	0.10398	6.96E-04	4.54E-06	3.62E-06	4.41E-06	3.57E-06	7.1212E-04
520718.49	4258304.92	15166.41201	0.1071	0.11689	0.10431	0.12197	6.96E-04	4.39E-06	4.18E-06	4.27E-06	4.19E-06	7.1283E-04
520100.11	4258162.38	15160.16116	0.15106	14.99827	0.15476	15.85769	6.96E-04	6.19E-06	5.36E-04	6.34E-06	5.44E-04	1.7889E-03
520042.84	4259324.55	15115.00865	5.45596	0.13815	7.91258	0.13494	6.93E-04	2.23E-04	4.94E-06	3.24E-04	4.63E-06	1.2504E-03
520706.75	4258403.43	15097.23054	0.11356	0.11861	0.11011	0.12351	6.93E-04	4.65E-06	4.24E-06	4.51E-06	4.24E-06	7.1027E-04
520092.8	4259355.29	15086.3754	12.62027	0.13889	11.20425	0.13255	6.92E-04	5.20E-04	4.97E-06	4.59E-04	4.55E-06	1.6801E-03
519887.45	4258756.28	15078.11	0.33667	0.44876	0.35897	0.43414	6.92E-04	1.38E-05	1.61E-05	1.47E-05	1.49E-05	7.5119E-04
520705.37	4258589.7	15072.39623	0.11757	0.11392	0.11344	0.11797	6.91E-04	4.81E-06	4.07E-06	4.64E-06	4.05E-06	7.0908E-04
520695.58	4258551.72	15065.17332	0.1198	0.11858	0.11535	0.12287	6.91E-04	4.91E-06	4.24E-06	4.72E-06	4.22E-06	7.0925E-04
520690.85	4258511.08	15053.71739	0.12051	0.12123	0.11593	0.12604	6.91E-04	4.93E-06	4.34E-06	4.75E-06	4.33E-06	7.0898E-04
520725.05	4258646.71	15053.62612	0.1129	0.10574	0.1091	0.10896	6.91E-04	4.62E-06	3.78E-06	4.47E-06	3.74E-06	7.0724E-04
520715.21	4258618.2	15048.94509	0.11521	0.10968	0.11119	0.11341	6.90E-04	4.72E-06	3.92E-06	4.55E-06	3.89E-06	7.0750E-04
520047.03	4258270.1	15041.23875	0.17844	7.17285	0.1884	5.56741	6.90E-04	7.31E-06	2.57E-04	7.71E-06	1.91E-04	1.1528E-03
520129.63	4258112.47	15024.82122	0.14024	6.21097	0.14108	7.22608	6.89E-04	5.74E-06	2.22E-04	5.78E-06	2.48E-04	1.1711E-03
520691.19	4258501.95	15011.55438	0.12024	0.12129	0.11572	0.12621	6.89E-04	4.92E-06	4.34E-06	4.74E-06	4.33E-06	7.0703E-04
520722.31	4258263.2	15006.49958	0.10448	0.11672	0.10239	0.12178	6.88E-04	4.28E-06	4.17E-06	4.19E-06	4.18E-06	7.0530E-04
520691.53	4258492.82	15002.58732	0.11996	0.12144	0.11554	0.12646	6.88E-04	4.91E-06	4.34E-06	4.73E-06	4.34E-06	7.0662E-04
520052.75	4259334.53	14994.65095	7.5258	0.13735	14.22908	0.13364	6.88E-04	3.08E-04	4.91E-06	5.83E-04	4.59E-06	1.5882E-03
520109.96	4258142.41	14990.11578	0.14604	10.43202	0.14858	11.98875	6.88E-04	5.98E-06	3.73E-04	6.08E-06	4.12E-04	1.4845E-03
520734.89	4258675.21	14971.57139	0.11061	0.10173	0.10724	0.10453	6.87E-04	4.53E-06	3.64E-06	4.39E-06	3.59E-06	7.0301E-04
520722.09	4258288.49	14954.4451	0.10558	0.11602	0.10307	0.12113	6.86E-04	4.32E-06	4.15E-06	4.22E-06	4.16E-06	7.0293E-04
520030.84	4258316.73	14952.36096	0.19659	4.39365	0.20633	3.70121	6.86E-04	8.05E-06	1.57E-04	8.45E-06	1.27E-04	9.8670E-04
519878.09	4258781.96	14951.16246	0.33031	0.40406	0.35072	0.39179	6.86E-04	1.35E-05	1.45E-05	1.44E-05	1.35E-05	7.4172E-04
519937.12	4258636.77	14921.6155	0.37368	0.80119	0.40941	0.76569	6.85E-04	1.53E-05	2.87E-05	1.68E-05	2.63E-05	7.7158E-04
519999.44	4258511.82	14916.92714	0.40834	2.12648	0.45261	1.88851	6.84E-04	1.67E-05	7.61E-05	1.85E-05	6.48E-05	8.6053E-04
520743.87	4258710.98	14911.28123	0.1087	0.09729	0.10591	0.09998	6.84E-04	4.45E-06	3.48E-06	4.34E-06	3.43E-06	6.9980E-04
520695.64	4258542.24	14907.70145	0.11958	0.1188	0.11508	0.12317	6.84E-04	4.90E-06	4.25E-06	4.71E-06	4.23E-06	7.0202E-04
520337.31	4258294.09	14897.66231	0.18626	5.23396	0.19607	4.30669	6.83E-04	7.63E-06	1.87E-04	8.03E-06	1.48E-04	1.0342E-03
520746.69	4258728.2	14892.87957	0.10822	0.09531	0.10555	0.09808	6.83E-04	4.43E-06	3.41E-06	4.32E-06	3.37E-06	6.9879E-04
519853.09	4258890.3	14890.37448	0.33263	0.28607	0.34945	0.27799	6.83E-04	1.36E-05	1.02E-05	1.43E-05	9.54E-06	7.3084E-04
520704.63	4258423.74	14887.09914	0.11469	0.11862	0.11114	0.12367	6.83E-04	4.70E-06	4.24E-06	4.55E-06	4.25E-06	7.0073E-04
520082.9	4259355.31	14878.35828	14.12594	0.13722	17.49195	0.13164	6.83E-04	5.78E-04	4.91E-06	7.16E-04	4.52E-06	1.9866E-03
520721.97	4258314.05	14867.77638	0.1066	0.1156	0.10365	0.12048	6.82E-04	4.36E-06	4.13E-06	4.24E-06	4.14E-06	6.9898E-04
520694.64	4258475.12	14865.61534	0.1187	0.12066	0.1145	0.12582	6.82E-04	4.86E-06	4.32E-06	4.69E-06	4.32E-06	7.0019E-04
520054.57	4258247.01	14856.30836	0.17008	9.7882	0.17936	7.01779	6.82E-04	6.96E-06	3.50E-04	7.34E-06	2.41E-04	1.2869E-03
520009.19	4258458.73	14840.57631	0.32975	2.65368	0.35317	2.32304	6.81E-04	1.35E-05	9.49E-05	1.45E-05	7.98E-05	8.8349E-04
520741.28	4258693.23	14834.9504	0.1091	0.0991	0.10606	0.10177	6.81E-04	4.47E-06	3.54E-06	4.34E-06	3.49E-06	6.9645E-04
520697.87	4258457.73	14822.34055	0.11739	0.11496	0.11345	0.12517	6.80E-04	4.81E-06	4.29E-06	4.65E-06	4.30E-06	6.9806E-04
520705.42	4258580.22	14820.53233	0.11731	0.11441	0.11321	0.11845	6.80E-04	4.80E-06	4.09E-06	4.64E-06	4.07E-06	6.9753E-04
520720.71	4258336.62	14806.72886	0.10765	0.11583	0.10453	0.12042	6.79E-04	4.41E-06	4.14E-06	4.28E-06	4.13E-06	6.9627E-04
520011.26	4258429.45	14802.62341	0.28763	2.79869	0.30536	2.44862	6.79E-04	1.18E-05	1.00E-04	1.25E-05	8.41E-05	8.8756E-04
520725.1	4258637.22	14789.16945	0.11265	0.10612	0.10883	0.10947	6.78E-04	4.61E-06	3.80E-06	4.46E-06	3.76E-06	6.9512E-04
520119.81	4258122.44	14785.16607	0.14115	7.85414	0.14269	9.20502	6.78E-04	5.78E-06	2.81E-04	5.84E-06	3.16E-04	1.2869E-03
520695.69	4258532.76	14783.72937	0.11938	0.11909	0.11486	0.12353	6.78E-04	4.89E-06	4.26E-06	4.70E-06	4.24E-06	6.9634E-04
519910.75	4258691.91	14783.43051	0.34655	0.59226	0.37302	0.56925	6.78E-04	1.42E-05	2.12E-05	1.53E-05	1.95E-05	7.4842E-04
520715.26	4258608.72	14770.43226	0.11496	0.11008	0.11098	0.1139	6.78E-04	4.71E-06	3.94E-06	4.54E-06	3.91E-06	6.9474E-04
520042.85	4259334.55	14764.49393	5.46518	0.13552	7.9915	0.13239	6.77E-04	2.24E-04	4.85E-06	3.27E-04	4.55E-06	1.2377E-03
520734.94	4258665.73	14755.85206	0.11037	0.10224	0.1069	0.10511	6.77E-04	4.52E-06	3.66E-06	4.38E-06	3.61E-06	6.9313E-04
520064	4258223.15	14746.21532	0.16295	17.40711	0.17112	9.81808	6.77E-04	6.67E-06	6.23E-04	7.01E-06	3.37E-04	1.6499E-03
519927.12	4258655.32	14742.89504	0.36031	0.71407	0.39121	0.68444	6.76E-04	1.48E-05	2.55E-05	1.60E-05	2.35E-05	7.5618E-04
520725.74	4258272.21	14734.39648	0.10407	0.11518	0.10181	0.12024	6.76E-04	4.26E-06	4.12E-06	4.17E-06	4.13E-06	6.9266E-04
520092.82	4259365.29	14724.19497	12.63571	0.13626	11.09954	0.1301	6.76E-04	5.17E-04	4.87E-06	4.54E-04	4.47E-06	1.6567E-03
520018.73	4259361.68	14702.17606	0.22112	3.30649	0.23196	2.86913	6.75E-04	9.05E-06	1.18E-04	9.50E-06	9.85E-05	9.0983E-04
520695.75	4258523.27	14690.86864	0.11918	0.11925	0.11465	0.12381	6.74E-04	4.88E-06	4.27E-06	4.69E-06	4.25E-06	6.9208E-04
519895.62	4258727.77	14680.97162	0.33373	0.50051	0.35866	0.48214	6.74E-04	1.37E-05	1.79E-05	1.47E-05	1.66E-05	7.3634E-04
520725.54	4258297.55	14673.90199	0.10513	0.1146	0.10242	0.11959	6.73E-04	4.30E-06	4.10E-06	4.19E-06	4.11E-06	6.8991E-04
519868.48	4258807	14666.98087	0.32178	0.36578	0.34035	0.35519	6.73E-04	1.32E-05	1.31E-05	1.39E-05	1.22E-05	7.2528E-04
520100.14	4258152.38	14663.7744	0.14658	15.02436	0.15006	15.85514	6.73E-04	6.00E-06	5.37E-04	6.14E-06	5.44E-04	1.7666E-03
520053.18	4259344.53	14654.75487	7.69063	0.13481	14.97615	0.13118	6.72E-04	3.15E-04	4.82E-06	6.13E-04	4.50E-06	1.6097E-03
519860.78	4258836.65	14653.74431	0.32094	0.33185	0.3383	0.32239	6.72E-04	1.31E-05	1.19E-05	1.39E-05	1.11E-05	7.2222E-04
520047.43	4258259.95	14647.72851	0.1726	7.25673	0.18214	5.63286	6.72E-04	7.07E-06	2.60E-04	7.46E-06	1.93E-04	1.1395E-03
519949.85	4258609	14638.07597	0.38517	0.94644	0.42781	0.89773	6.72E-04	1.58E-05	3.39E-05	1.75E-05	3.08E-05	7.6953E-04
520720.52	4258361.97	14609.94761	0.10861	0.11524	0.10533	0.11973	6.70E-04	4.45E-06	4.12E-06	4.31E-06	4.11E-06	6.8727E-04
519854.6	4258863.81	14605.08885	0.32129	0.30531	0.33772	0.29665	6.70E-04	1.32E-05	1.09E-05	1.38E-05	1.02E-05	7.1814E-04
520705.48	4258570.74	14593.6653	0.11709	0.11475	0.11296	0.11881	6.70E-04	4.79E-06	4.10E-06	4.63E-06	4.08E-06	6.8713E-04
519847.71	4258008.04	14574.61512	0.32771	0.27013	0.34376	0.26273	6.69E-04	1.34E-05	9.66E-06	1.41E-05	9.02E-06	7.1483E-04
520019.85	4258351.23	14572.86798	0.21312	3.38911	0.22332	2.93651	6.69E-04	8.73E-06	1.21E-04	9.14E-06	1.01E-04	9.0848E-04
519880.93	4258764.68	14571.60298	0.32421	0.42591	0.34483	0.4126	6.69E-04	1.33E-05	1.52E-05	1.41E-05	1.42E-05	7.2531E-04
520037.9	4258283.86	14555.67372	0.18006	5.31391	0.18955	4.37136	6.68E-04	7.37E-06	1.90E-04	7.76E-06	1.50E-04	1.0231E-03
520750.32	4258719.53	14549.10918	0.10695	0.09513	0.10428	0.09781	6.67E-04	4.38E-06	3.40E-06	4.27E-06	3.36E-06	6.8289E-04
520012.95	4258394.02	14537.16838	0.24609	2.92041	0.25925	2.55849	6.67E-04	1.01E-05	1.04E-04	1.06E-05	8.78E-05	8.7992E-04
520082.92	4259365.31	14523.57991	15.70952	0.13463	17.25251	0.1292	6.66E-04	6.43E-04	4.82E-06	7.06E-04	4.44E-06	2.0252E-03
520747.53	4258702.25	14523.48259	0.10742	0.09707	0.10459	0.09968	6.66E-04	4.40E-06	3.47E-06	4.28E-06	3.42E-06	6.8188E-04
520735	4258656.24	14523.3266	0.11013	0.10269	0.10659	0.10567	6.66E-04	4.51E-06	3.67E-06	4.36E-06	3.63E-06	6.8248E-04
520725.16	4258627.74	14519.12696	0.11241	0.10649	0.10859	0.10997	6.66E-04	4.60E-06	3.81E-06	4.45E-06	3.78E-06	6.8274E-04
520014.14	4258383.54	14518.92111	0.23662	2.99651	0.24885	2.62189	6.66E-04	9.69E-06	1.07E-04	1.02E-05	9.00E-05	8.8317E-04
519917.12	4258673.87	14509.4049	0.34739	0.64051	0.37494	0.61505	6.66E-04	1.42E-05	2.29E-05	1.54E-05	2.11E-05	7.3926E-04
519863.72	4258819.63	14508.43744	0.31759	0.34848	0.3351	0.33865	6.66E-04	1.30E-05	1.25E-05	1.37E-05	1.16E-05	7.1643E-04
520109.99	4258132.41	14506.38579	0.14185	10.43818	0.14421	12.05007	6.66E-04	5.81E-06	3.73E-04	5.90E-06	4.14E-04	1.4643E-03
520724.09	4258345.48	14506.19695	0.10718	0.1144	0.10395	0.11889	6.66E-04	4.39E-06	4.09E-06	4.26E-06	4.08E-06	6.8233E-04
519959.77	4258589.57	14506.05203	0.39593	1.08894	0.44387	1.02148	6.66E-04	1.62E-05	3.89E-05	1.82E-05	3.51E-05	7.7391E-04
520715.32	4258599.24	14500.34474	0.11472	0.11047	0.11078	0.11435	6.65E-04	4.70E-06	3.95E-06	4.54E-06	3.93E-06	6.8236E-04
520698.09	4258484.15	14492.46164	0.11779	0.11934	0.11354	0.12432	6.65E-04	4.82E-06	4.27E-06	4.65E-06	4.27E-06	6.8289E-04
520729.17	4258281.21	14466.8689	0.10367	0.11355	0.1012	0.11858	6.64E-04	4.24E-06	4.06E-06	4.14E-06	4.07E-06	6.8023E-04
519904.67	4258701.35	14464.06876	0.33678	0.51816	0.36134	0.53741	6.64E-04	1.38E-05	2.00E-05	1.48E-05	1.84E-05	7.3058E-04
520054.94	4258236.87	14443.55596	0.16468	9.9189	0.17353	7.0919	6.63E-04	6.74E-06	3.55E-04	7.11E-06	2.43E-04	1.2747E-03
520015.14	4258373.14	14442.68389	0.2276	3.0623	0.23899	2.67703	6.63E-04	9.32E-06	1.10E-04	9.79E-06	9.19E-05	8.8315E-04
520043.28	4259344.55	14434.82779	5.55415	0.13304	8.22942	0.12997	6.62E-04	2.27E-04	4.76E-06	3.37E-04	4.46E-06	1.2358E-03
519880.52	4258531.26	14425.57278	0.41206	1.76187	0.45928	1.59249	6.62E-04	1.69E-05	6.30E-05	1.88E-05	5.47E-05	8.1519E-04
519871.47	4258790.09	14420.74264	0.31757	0.38468	0.33637	0.37346	6.62E-04	1.30E-05	1.38E-05	1.38E-05	1.28E-05	7.1495E-04
520744.83	4258684.75	14420.72666	0.10785	0.09881	0.10478	0.10145	6.62E-04	4.42E-06	3.53E-06	4.29E-06	3.48E-06	6.7732E-04
520701.29	4258466.69	14411.56046	0.11655	0.1185	0.11252	0.1236	6.61E-04	4.77E-06	4.24E-06	4.24E-06	4.24E-06	6.7904E-04
520020.82	4258340.84	14402.6648	0.20552	3.46188	0.21513	2.99744	6.61E-04	8.41E-06	1.24E-04	8.81E-06	1.03E-04	9.0472E-04
520728.99	4258306.62	14395.50825	0.10467	0.11323	0.10177	0.11805	6.60E-04	4.29E-06	4.05E-06	4.17E-06	4.05E-06	6.7699E-04
520705.53	4258561.26	14391.07705	0.11688	0.11504	0.11269	0.11913	6.60E-04	4.79E-06	4.11E-06	4.61E-06	4.09E-06	6.7784E-04
520092.84	4259375.29	14371.19927	12.60874	0.13369	10.98905	0.12771	6.59E-04	5.16E-04	4.78E-06	4.50E-04	4.38E-06	1.6347E-03
519969.69	4258570.13	14359.50609	0.40473	1.26526	0.45362	1.17316	6.59E-04	1.66E-05	4.53E-05	1.86E-05	4.03E-05	7.7946E-04
519999.4	4258502.12	14354.94726	0.38642	2.14822	0.42408	1.90778	6.59E-04	1.58E-05	7.68E-05	1.74E-05	6.55E-05	8.3410E-04
520053.2	4259354.53	14317.09151	7.75148	0.13229	15.27015	0.12876	6.57E-04	3.17E-04	4.73E-06	6.25E-04	4.42E-06	1.6086E-03
520064.24	4258213.06	14312.54883	0.15789	17.62013	0.16563	9.88711	6.57E-04	6.46E-06	6.30E-04	6.78E-06	3.39E-04	1.6396E-03
520119.84	4258112.44	14304.22998	0.13719	7.85872	0.13862	9.20207	6.56E-04	5.62E-06	2.81E-04	5.68E-06	3.16E-04	1.2646E-03
519846.01	4258897.39	14290.67221	0.31771	0.27522	0.33289	0.26764	6.56E-04	1.30E-05	9.84E-06	1.36E-05	9.19E-06	7.0130E-04
519979.61	4258550.69	14285.54215	0.41015	1.48279	0.45838	1.35989	6.55E-04	1.68E-05	5.30E-05	1.88E-05	4.67E-05	7.9068E-04
520710.43	4258387.62	14284.43809	0.10943	0.11445	0.10611	0.11899	6.55E-04	4.48E-06	4.09E-06	4.34E-06	4.09E-06	6.7235E-04
520735.05	4258646.76	14279.25377	0.1099	0.10309	0.10631	0.10619	6.55E-04	4.50E-06	3.69E-06	4.35E-06	3.65E-06	6.7129E-04
519889.13	4258736.23	14257.67052	0.32301	0.47329	0.34491	0.45729	6.54E-04	1.32E-05	1.69E-05	1.41E-05	1.57E-05	7.1409E-04
520723.91	4258370.89	14255.78725	0.10804	0.11383	0.10475	0.11825	6.54E-04	4.42E-06	4.07E-06	4.29E-06	4.06E-06	6.7087E-04
520725.21	4258618.26	14249.32684	0.11217	0.10687	0.10838	0.11046	6.54E-04	4.59E-06	3.82E-06	4.44E-06	3.79E-06	6.7038E-04
520715.37	4258589.76	14245.14559	0.11449	0.11087	0.11057	0.11478	6.54E-04	4.69E-06	3.97E-06	4.53E-06	3.94E-06	6.7066E-04
520007.6	4258438.34	14243.98891	0.29317	2.59818	0.31161	2.28841	6.53E-04	1.20E-05	9.29E-05	1.28E-05	7.86E-05	8.4975E-04
520027.77	4258308.01	14240.06197	0.18762	4.06165	0.19657	3.46285	6.53E-04	7.68E-06	1.45E-04	8.05E-06	1.19E-04	9.3320E-04
520744.89	4258675.26	14227.85486	0.10764	0.0993	0.10445	0.10199	6.53E-04	4.41E-06	3.55E-06	4.28E-06	3.50E-06	6.6848E-04
520705.58	4258551.78	14216.16103	0.11668	0.11535	0.11243	0.11947	6.52E-04	4.78E-06	4.13E-06	4.60E-06	4.10E-06	6.6982E-04
520038.43	4258273.65	14212.86357	0.17416	5.38672	0.18337	4.42712	6.52E-04	7.13E-06	1.93E-04	7.51E-06	1.52E-04	1.0114E-03
520700.84	4258511.46	14206.74688	0.1174	0.11785	0.11299	0.12244	6.52E-04	4.81E-06	4.22E-06	4.63E-06	4.20E-06	6.6963E-04
520732.6	4258290.22	14204.35118	0.10323	0.11227	0.10058	0.11718	6.52E-04	4.23E-06	4.02E-06	4.12E-06	4.02E-06	6.6805E-04
520021.66	4258330.5	14200.33809	0.19828	3.52608	0.20742	3.05073	6.51E-04	8.12E-06	1.26E-04	8.49E-06	1.05E-04	8.9895E-04
520100.17	4258142.38	14196.26664	0.14233	15.04492	0.1456	15.91239	6.51E-04	5.83E-06	5.38E-04	5.96E-06	5.46E-04	1.7475E-03
520753.95	4258710.86	14193.44198	0.10571	0.09495	0.10303	0.09754	6.51E-04	4.33E-06	3.40E-06	4.22E-06	3.35E-06	6.6646E-04
520082.94	4259375.31	14183.30432	15.63256	0.13212	17.01862	0.12685	6.51E-04	6.41E-04	4.73E-06	6.97E-04	4.35E-06	1.9975E-03
520727.46	4258354.35	14182.52505	0.10663	0.11307	0.10339	0.11744	6.51E-04	4.37E-06	4.04E-06	4.23E-06	4.03E-06	6.6734E-04
520701.18	4258502.33	14169.80421	0.11715	0.11796	0.11279	0.12265	6.50E-04	4.80E-06	4.22E-06	4.62E-06	4.21E-06	6.6793E-04
520701.53	4258493.19	14162.80034	0.1169	0.118	0.11261	0.1228	6.50E-04	4.79E-06	4.22E-06	4.61E-06	4.22E-06	6.6760E-04
520751.18	4258693.53	14126.86506	0.10616	0.09681	0.1033	0.09937	6.48E-04	4.35E-06	3.44E-06	4.23E-06	3.41E-06	6.6355E-04
520732.44	4258315.68	14117.04144	0.10417	0.11199	0.10116	0.11663	6.48E-04	4.27E-06	4.01E-06	4.14E-06	4.00E-06	6.6408E-04
520043.3	4259354.55	14106.81781	5.57877	0.13058	8.31975	0.12758	6.47E-04	2.28E-04	4.67E-06	3.41E-04	4.38E-06	1.2253E-03
519874.37	4258772.97	14082.80594	0.3123	0.40479	0.33127	0.39271	6.46E-04	1.28E-05	1.45E-05	1.36E-05	1.35E-05	7.0040E-04
519883.66	4258747.14	14075.29301	0.31674	0.44886	0.33762	0.43423	6.46E-04	1.30E-05	1.61E-05	1.38E-05	1.49E-05	7.0350E-04
520045.69	4258250.68	14075.2646	0.16614	6.78528	0.17518	5.35522	6.46E-04	6.80E-06	2.43E-04	7.17E-06	1.84E-04	1.0863E-03
520705.64	4258542.29	14050.38826	0.11648	0.11556	0.11217	0.11974	6.45E-04	4.77E-06	4.13E-06	4.59E-06	4.11E-06	6.6308E-04
519898.33	4258710.17	14061.21806	0.32564	0.52695	0.34881	0.50795	6.45E-04	1.33E-05	1.88E-05	1.43E-05	1.74E-05	7.0900E-04
520055.28	4258226.75	14044.48202	0.15957	10.04245	0.16802	7.15987	6.44E-04	6.53E-06	3.59E-04	6.88E-06	2.46E-04	1.2628E-03
520110.02	4258122.41	14042.46521	0.13785	10.44651	0.14005	12.04997	6.44E-04	5.64E-06	3.74E-04	5.78E-06	4.14E-04	1.4428E-03
519850.96	4258855.16	14040.68429	0.30668	0.30698	0.32205	0.29854	6.44E-04	1.26E-05	1.10E-05	1.32E-05	1.02E-05	6.9113E-04
520092.85	4259385.29	14036.80581	12.48859	0.13124	10.8918	0.12542	6.44E-04	5.11E-04	4.69E-06	4.46E-04	4.31E-06	1.6103E-03
520704.7	4258475.65	14035.27931	0.11568	0.11719	0.1116	0.12213	6.44E-04	4.74E-06	4.19E-06	4.57E-06	4.19E-06	6.6160E-04
519847.6	4258870.98	14027.11967	0.30735	0.29316	0.32225	0.2851	6.44E-04	1.26E-05	1.05E-05	1.32E-05	9.79E-06	6.8959E-04
520735.1	4258637.28	14026.46689	0.10968	0.10346	0.10607	0.10669	6.44E-04	4.49E-06	3.70E-06	4.34E-06	3.66E-06	6.5970E-04
520744.94	4258665.78	14019.30218	0.10742	0.09976	0.10414	0.10253	6.43E-04	4.40E-06	3.57E-06	4.26E-06	3.52E-06	6.5893E-04
520715.42	4258580.28	14008.34904	0.11427	0.1113	0.11036	0.11521	6.43E-04	4.68E-06	3.98E-06	4.52E-06	3.96E-06	6.5981E-04
520007.92	4258413.3	14005.02139	0.26059	2.63683	0.27533	2.32687	6.43E-04	1.07E-05	9.43E-05	1.13E-05	7.99E-05	8.3867E-04
520707.98	4258458.39	13996.83081	0.11445	0.11644	0.11059	0.12143	6.42E-04	4.69E-06	4.16E-06	4.53E-06	4.17E-06	6.5970E-04
520053.22	4259364.53	13990.65864	7.80478	0.12985	15.58313	0.12641	6.42E-04	3.20E-04	4.64E-06	6.38E-04	4.34E-06	1.6084E-03
519927.12	4258646.05	13987.66337	0.34887	0.72427	0.37905	0.69514	6.42E-04	1.43E-05	2.59E-05	1.55E-05	2.39E-05	7.2130E-04
519857.03	4258827.62	13986.3514	0.3052	0.33319	0.3213	0.3241	6.42E-04	1.25E-05	1.19E-05	1.32E-05	1.11E-05	6.9036E-04
520725.26	4258608.78	13983.95926	0.11195	0.10724	0.10819	0.11092	6.42E-04	4.58E-06	3.84E-06	4.43E-06	3.81E-06	6.5821E-04
520022.41	4258320.21	13976.28843	0.19144	3.58397	0.20017	3.09898	6.41E-04	7.84E-06	1.28E-04

519907.12	4258683.15	13607.63183	0.32501	0.58641	0.3489	0.56469	6.24E-04	1.33E-05	2.10E-05	1.43E-05	1.94E-05	6.9225E-04	
520715.53	4258561.31	13601.37858	0.11386	0.11194	0.10987	0.11587	6.24E-04	4.66E-06	4.00E-06	4.50E-06	3.98E-06	6.4115E-04	
520110.05	4258112.41	13599.35505	0.13402	10.45566	0.1361	12.00483	6.24E-04	5.49E-06	3.74E-04	5.57E-06	4.12E-04	1.4211E-03	
520745.05	4258646.82	13561.76708	0.10701	0.10051	0.10361	0.10351	6.22E-04	4.38E-06	3.60E-06	4.24E-06	3.55E-06	6.3796E-04	
519959.73	4258579.87	13552.97295	0.38017	1.10675	0.42426	1.03673	6.22E-04	1.56E-05	3.96E-05	1.74E-05	3.56E-05	7.2990E-04	
520754.89	4258675.32	13536.2278	0.10477	0.09692	0.10174	0.09951	6.21E-04	4.29E-06	3.47E-06	4.17E-06	3.42E-06	6.3635E-04	
520730.71	4258388.74	13525.76086	0.10682	0.11105	0.10359	0.11539	6.21E-04	4.37E-06	3.97E-06	4.24E-06	3.96E-06	6.3708E-04	
520734.21	4258372.08	13518.45524	0.10551	0.11038	0.1023	0.11462	6.20E-04	4.32E-06	3.95E-06	4.19E-06	3.94E-06	6.3659E-04	
520004.35	4258421.99	13517.61263	0.26525	2.46118	0.28045	2.18456	6.20E-04	1.09E-05	8.80E-05	1.15E-05	7.50E-05	8.0554E-04	
520735.21	4258618.32	13511.02193	0.10925	0.10414	0.10567	0.10761	6.20E-04	4.47E-06	3.72E-06	4.33E-06	3.69E-06	6.3608E-04	
519843.98	4258862.39	13499.85382	0.2938	0.29463	0.30775	0.2868	6.19E-04	1.20E-05	1.05E-05	1.26E-05	9.85E-06	6.6436E-04	
520009.85	4258365.34	13497.86049	0.21431	2.75852	0.22462	2.44038	6.19E-04	8.77E-06	9.87E-05	9.20E-06	8.38E-05	8.1968E-04	
520727.27	4258405.59	13496.58946	0.10813	0.11159	0.10484	0.11609	6.19E-04	4.43E-06	3.99E-06	4.29E-06	3.99E-06	6.3588E-04	
520725.37	4258589.82	13484.7708	0.11153	0.10795	0.10781	0.11172	6.19E-04	4.57E-06	3.86E-06	4.41E-06	3.84E-06	6.3533E-04	
520043.33	4259374.55	13482.18444	5.64531	0.12587	8.50373	0.12303	6.19E-04	2.31E-04	4.50E-06	3.48E-04	4.22E-06	1.2066E-03	
520078.67	4259395.72	13475.5324	16.36914	0.12678	20.03811	0.12202	6.18E-04	6.70E-04	4.53E-06	8.20E-04	4.19E-06	2.1176E-03	
519840.47	4258877.85	13467.65591	0.29389	0.28178	0.30734	0.27429	6.18E-04	1.20E-05	1.01E-05	1.26E-05	9.42E-06	6.6198E-04	
519847.32	4258846.51	13466.4475	0.29273	0.30827	0.30715	0.30012	6.18E-04	1.20E-05	1.10E-05	1.26E-05	1.03E-05	6.6371E-04	
520761.2	4258693.53	13453.67071	0.1033	0.09456	0.10058	0.09701	6.17E-04	4.23E-06	3.38E-06	4.12E-06	3.33E-06	6.3229E-04	
520011.11	4258354.84	13444.74143	0.20638	2.82895	0.21655	2.49953	6.17E-04	8.47E-06	1.01E-04	8.87E-06	8.58E-05	8.2115E-04	
520715.58	4258551.83	13437.49698	0.11368	0.11221	0.10963	0.11618	6.16E-04	4.65E-06	4.01E-06	4.49E-06	3.99E-06	6.3363E-04	
520710.84	4258511.83	13428.18787	0.11441	0.11467	0.11018	0.11905	6.16E-04	4.68E-06	4.10E-06	4.51E-06	4.09E-06	6.3344E-04	
520723.92	4258422.64	13424.76196	0.10936	0.11221	0.10601	0.11684	6.16E-04	4.48E-06	4.34E-06	4.01E-06	4.01E-06	6.3275E-04	
519969.65	4258560.43	13421.42302	0.38686	1.28331	0.43075	1.18952	6.16E-04	1.58E-05	4.59E-05	1.76E-05	4.08E-05	7.3596E-04	
520742.88	4258317.23	13421.42057	0.10182	0.1086	0.09878	0.11301	6.16E-04	4.17E-06	3.88E-06	4.04E-06	3.88E-06	6.3173E-04	
520063.61	4258193.35	13420.95286	0.14816	16.52624	0.15526	9.59285	6.16E-04	6.07E-06	6.36E-06	5.91E-04	3.29E-04	1.5486E-03	
520029.82	4258277.2	13412.34215	0.16993	4.25475	0.17816	3.6214	6.15E-04	6.96E-06	1.52E-04	7.29E-06	1.24E-04	9.0610E-04	
519979.56	4258541	13408.81911	0.39036	1.50209	0.4337	1.37707	6.15E-04	1.60E-05	5.37E-05	1.78E-05	4.73E-05	7.4992E-04	
520711.18	4258502.7	13393.6232	0.16218	5.11207	0.1706	4.24758	6.11E-04	6.64E-06	1.83E-04	6.99E-06	1.46E-04	9.5354E-04	
520711.52	4258493.57	13390.83229	0.11395	0.11468	0.10981	0.11927	6.14E-04	4.67E-06	4.10E-06	4.50E-06	4.09E-06	6.3170E-04	
520053.25	4259384.53	13368.84592	7.97432	0.12518	16.24682	0.12192	6.13E-04	3.27E-04	4.48E-06	6.65E-04	4.19E-06	1.6137E-03	
520046.56	4258230.35	13366.11498	0.15611	6.9574	0.1645	5.4729	6.13E-04	6.39E-06	2.49E-04	6.74E-06	1.88E-04	1.0631E-03	
520720.65	4258439.94	13354.27753	0.11059	0.11271	0.10705	0.11748	6.13E-04	4.53E-06	4.03E-06	4.38E-06	4.03E-06	6.2964E-04	
520012.19	4258344.4	13345.65486	0.19975	2.89047	0.2088	2.55239	6.12E-04	8.18E-06	1.03E-04	8.55E-06	8.76E-05	8.2001E-04	
520088.58	4259405.71	13344.56976	13.34105	0.12603	12.14676	0.12073	6.12E-04	5.46E-04	4.51E-06	4.97E-04	4.14E-06	1.6645E-03	
520754.94	4258665.84	13335.03518	0.10458	0.09735	0.10147	0.10002	6.12E-04	4.28E-06	3.48E-06	4.15E-06	3.43E-06	6.2714E-04	
520100.23	4258122.38	13330.49556	0.13446	15.07372	0.13734	15.96652	6.12E-04	5.51E-06	5.39E-04	5.62E-06	5.48E-04	1.7100E-03	
520036.8	4258254.35	13323.21804	0.16218	5.11207	0.1706	4.24758	6.11E-04	6.64E-06	1.83E-04	6.99E-06	1.46E-04	9.5354E-04	
520739.34	4258359.68	13321.77189	0.10393	0.10904	0.10074	0.11319	6.11E-04	4.26E-06	3.90E-06	4.12E-06	3.89E-06	6.2734E-04	
520745.1	4258637.34	13319.69126	0.10682	0.10083	0.1034	0.10397	6.11E-04	4.37E-06	3.61E-06	4.23E-06	3.57E-06	6.2687E-04	
519853.29	4258818.59	13310.46106	0.29019	0.33431	0.30536	0.32548	6.11E-04	1.19E-05	1.20E-05	1.25E-05	1.12E-05	6.5817E-04	
519900.89	4258692.25	13308.08877	0.3156	0.55324	0.33769	0.53354	6.11E-04	1.29E-05	1.98E-05	1.38E-05	1.83E-05	6.7540E-04	
520005.75	4258387.01	13301.95688	0.22922	2.54609	0.2408	2.26479	6.10E-04	9.39E-06	9.11E-05	9.86E-06	7.78E-05	7.9834E-04	
520715.64	4258542.35	13301.06866	0.11349	0.11247	0.10939	0.11648	6.10E-04	4.65E-06	4.02E-06	4.48E-06	4.00E-06	6.2737E-04	
520018.88	4258311.68	13295.22742	0.18259	3.31427	0.19059	2.89457	6.10E-04	7.48E-06	1.19E-04	7.80E-06	9.94E-05	8.4316E-04	
520714.75	4258476.17	13271.79658	0.11279	0.11387	0.10883	0.11859	6.09E-04	4.62E-06	4.07E-06	4.46E-06	4.07E-06	6.2610E-04	
519885.46	4258727.38	13262.50169	0.30418	0.47176	0.32044	0.45597	6.08E-04	1.25E-05	1.69E-05	1.33E-05	1.57E-05	6.6672E-04	
520725.42	4258580.33	13260.00173	0.11133	0.1083	0.10761	0.11207	6.08E-04	4.56E-06	3.87E-06	4.41E-06	3.85E-06	6.2503E-04	
520735.26	4258608.84	13258.15945	0.10905	0.10449	0.1055	0.10804	6.08E-04	4.46E-06	3.74E-06	4.32E-06	3.71E-06	6.2449E-04	
519927.12	4258636.77	13252.63084	0.33805	0.73424	0.36787	0.7053	6.08E-04	1.38E-05	2.63E-05	1.51E-05	2.42E-05	6.8738E-04	
520742.79	4258342.87	13252.30622	0.10261	0.10832	0.09948	0.11246	6.08E-04	4.20E-06	3.87E-06	4.07E-06	3.86E-06	6.2400E-04	
520718.07	4258459.03	13236.63954	0.11161	0.11309	0.10786	0.11788	6.07E-04	4.57E-06	4.05E-06	4.42E-06	4.05E-06	6.2435E-04	
519870.64	4258763.99	13226.05349	0.29537	0.40485	0.31286	0.39295	6.07E-04	1.21E-05	1.45E-05	1.28E-05	1.35E-05	6.5966E-04	
520000.29	4258456.11	13220.66004	0.30412	2.25667	0.32419	2.00938	6.07E-04	1.25E-05	8.07E-05	1.33E-05	6.90E-05	7.8197E-04	
520013.14	4258334.02	13212.90196	0.19294	2.94594	0.20147	2.59929	6.06E-04	7.90E-06	1.05E-04	8.25E-06	8.92E-05	8.1694E-04	
520715.69	4258532.87	13194.53009	0.11332	0.11268	0.10918	0.11676	6.05E-04	4.64E-06	4.03E-06	4.47E-06	4.01E-06	6.2249E-04	
520043.35	4259384.55	13184.91109	5.70134	0.12362	8.59936	0.12084	6.05E-04	2.33E-04	4.42E-06	3.52E-04	4.15E-06	1.1990E-03	
520737.59	4258380.94	13182.42671	0.10495	0.10898	0.10175	0.11319	6.05E-04	4.30E-06	3.90E-06	4.17E-06	3.89E-06	6.2103E-04	
520054.39	4258207.14	13180.8256	0.14956	9.54213	0.15734	6.92649	6.05E-04	6.12E-06	3.41E-04	6.44E-06	2.38E-04	1.1964E-03	
520079.68	4259405.72	13176.50391	16.11421	0.12454	19.76931	0.1199	6.05E-04	6.60E-04	4.45E-06	8.09E-04	4.12E-06	2.0823E-03	
519861.14	4258789.3	13161.34504	0.28995	0.36735	0.30611	0.35726	6.04E-04	1.19E-05	1.31E-05	1.25E-05	1.23E-05	6.5363E-04	
520734.11	4258397.66	13151.86666	0.10618	0.10972	0.103	0.11402	6.03E-04	4.35E-06	3.92E-06	4.22E-06	3.91E-06	6.1979E-04	
519917.12	4258655.32	13142.27325	0.3266	0.65889	0.35232	0.63455	6.03E-04	1.34E-05	2.36E-05	1.44E-05	2.18E-05	6.7609E-04	
519889.44	4258511.86	13134.84945	0.37127	1.80311	0.40832	1.62855	6.03E-04	1.52E-05	6.45E-05	1.67E-05	5.59E-05	7.5493E-04	
520030.38	4258266.99	13126.57486	0.16463	4.30797	0.17266	3.66458	6.02E-04	6.74E-06	1.54E-04	7.07E-06	1.26E-04	8.9593E-04	
520754.99	4258656.36	13120.78441	0.1044	0.09773	0.10123	0.1005	6.02E-04	4.27E-06	3.50E-06	4.14E-06	3.45E-06	6.1732E-04	
520715.74	4258523.39	13117.85351	0.11316	0.11289	0.109	0.11706	6.02E-04	4.63E-06	4.04E-06	4.46E-06	4.02E-06	6.1897E-04	
519879.86	4258738	13104.46814	0.29827	0.44779	0.31745	0.43338	6.01E-04	1.22E-05	1.60E-05	1.30E-05	1.49E-05	6.5731E-04	
520730.69	4258414.57	13102.65092	0.10745	0.11024	0.10418	0.11472	6.01E-04	4.40E-06	3.94E-06	4.27E-06	3.94E-06	6.1767E-04	
520019.75	4258301.33	13093.38073	0.17672	3.37395	0.18442	2.94481	6.01E-04	7.24E-06	1.21E-04	7.55E-06	1.01E-04	8.3727E-04	
520745.16	4258627.86	13073.38184	0.10662	0.10118	0.10321	0.10443	6.00E-04	4.37E-06	3.62E-06	4.23E-06	3.59E-06	6.1558E-04	
520764.83	4258684.86	13072.78467	0.10215	0.0942	0.09939	0.09664	6.00E-04	4.18E-06	3.37E-06	4.07E-06	3.32E-06	6.1469E-04	
520725.48	4258570.85	13055.78547	0.11114	0.10861	0.10739	0.1124	5.99E-04	4.55E-06	3.88E-06	4.40E-06	3.86E-06	6.1567E-04	
519856.17	4258801.44	13054.30318	0.28609	0.35052	0.30153	0.34115	5.99E-04	1.17E-05	1.25E-05	1.23E-05	1.17E-05	6.4722E-04	
520013.97	4258323.69	13051.66667	0.18646	2.99478	0.19453	2.64122	5.99E-04	7.63E-06	1.07E-04	7.96E-06	9.07E-05	8.1218E-04	
520063.85	4258183.26	13050.78713	0.14389	16.70083	0.15062	9.66763	5.99E-04	5.89E-06	5.97E-04	6.17E-06	3.32E-04	1.5401E-03	
520090.41	4258132.35	13044.06622	0.13471	25.60832	0.13843	17.09441	5.98E-04	5.52E-06	9.18E-04	5.67E-06	5.87E-04	2.1147E-03	
520089.6	4259415.71	13043.89012	13.20119	0.1238	12.01849	0.11864	5.98E-04	5.41E-04	4.43E-06	4.92E-04	4.07E-06	1.6395E-03	
520000.77	4258430.68	13029.4315	0.26983	2.30145	0.28548	2.05423	5.98E-04	1.10E-05	8.23E-05	1.17E-05	7.05E-05	7.7335E-04	
520727.36	4258431.7	13024.77862	0.10863	0.11083	0.10525	0.11543	5.98E-04	4.45E-06	3.96E-06	4.31E-06	3.96E-06	6.1424E-04	
520046.94	4258220.2	13023.90875	0.15146	7.03249	0.15954	5.52358	5.98E-04	6.20E-06	2.52E-04	6.53E-06	1.90E-04	1.0514E-03	
520037.34	4258244.14	13015.14398	0.15728	5.18007	0.16547	4.29917	5.97E-04	6.44E-06	1.85E-04	6.78E-06	1.48E-04	9.4320E-04	
520735.32	4258599.35	13013.94234	0.10885	0.10483	0.10533	0.10843	5.97E-04	4.46E-06	3.75E-06	4.31E-06	3.72E-06	6.1330E-04	
520742.82	4258368.8	12996.81183	0.10336	0.10771	0.10021	0.1118	5.96E-04	4.23E-06	3.85E-06	4.10E-06	3.84E-06	6.1229E-04	
520049.96	4259394.95	12996.74451	7.20017	0.12234	12.75539	0.11933	5.96E-04	2.95E-04	4.38E-06	5.22E-04	4.10E-06	1.4218E-03	
519894.59	4258701.16	12989.56257	0.30608	0.52283	0.32671	0.50485	5.96E-04	1.25E-05	1.87E-05	1.34E-05	1.73E-05	6.5788E-04	
519907.12	4258673.87	12987.38325	0.31558	0.59486	0.33841	0.57362	5.96E-04	1.29E-05	2.13E-05	1.39E-05	1.97E-05	6.6358E-04	
519939.85	4258609.05	12966.42429	0.34797	0.8582	0.38328	0.81876	5.95E-04	1.42E-05	3.07E-05	1.57E-05	2.81E-05	6.8362E-04	
519840.37	4258853.79	12962.90019	0.28086	0.29579	0.29398	0.28824	5.95E-04	1.15E-05	1.06E-05	1.20E-05	9.90E-06	6.3873E-04	
520746.24	4258351.93	12960.62073	0.10209	0.10704	0.09896	0.11109	5.95E-04	4.18E-06	3.83E-06	4.05E-06	3.81E-06	6.1048E-04	
520724.13	4258449.06	12960.36727	0.10981	0.11134	0.10622	0.11604	5.95E-04	4.50E-06	3.98E-06	4.35E-06	3.98E-06	6.1141E-04	
519833.48	4258885.03	12960.27665	0.28179	0.27104	0.29393	0.26406	5.95E-04	1.15E-05	9.69E-06	1.20E-05	9.07E-06	6.3693E-04	
520718.13	4258485.06	12959.24161	0.11195	0.11268	0.10797	0.11724	5.95E-04	4.58E-06	4.03E-06	4.42E-06	4.02E-06	6.1160E-04	
519836.75	4258869	12955.94208	0.28087	0.28317	0.2935	0.27591	5.94E-04	1.15E-05	1.01E-05	1.20E-05	9.47E-06	6.3751E-04	
520100.26	4258112.38	12933.32263	0.13082	15.08266	0.13351	16.12367	5.93E-04	5.36E-06	5.39E-04	5.47E-06	5.54E-04	1.6972E-03	
520106.08	4258102.11	12910.53662	0.12906	11.99693	0.13124	13.56273	5.92E-04	5.28E-06	4.29E-04	5.37E-06	4.66E-04	1.4977E-03	
520755.05	4258646.88	12895.54311	0.10422	0.09804	0.10101	0.10094	5.92E-04	4.27E-06	3.51E-06	4.14E-06	3.47E-06	6.0700E-04	
520764.89	4258675.38	12891.79233	0.102	0.09462	0.09913	0.09712	5.91E-04	4.18E-06	3.38E-06	4.06E-06	3.33E-06	6.0640E-04	
520079.7	4259415.72	12888.76323	15.85025	0.12237	19.49327	0.11785	5.91E-04	6.49E-04	4.38E-06	7.98E-04	4.05E-06	2.0468E-03	
520721.43	4258467.85	12886.57406	0.11081	0.11189	0.10702	0.11655	5.91E-04	4.54E-06	4.00E-06	4.38E-06	4.00E-06	6.0813E-04	
519843.68	4258837.86	12884.04621	0.27942	0.30926	0.29302	0.30139	5.91E-04	1.14E-05	1.11E-05	1.20E-05	1.03E-05	6.3594E-04	
520010.53	4258291.03	12876.4942	0.17113	3.42831	0.1786	2.98985	5.91E-04	7.01E-06	1.23E-04	7.31E-06	1.03E-04	8.3034E-04	
520725.53	4258561.37	12876.3508	0.11096	0.10896	0.10717	0.11275	5.91E-04	4.54E-06	3.90E-06	4.39E-06	3.87E-06	6.0744E-04	
520000.91	4258406.07	12836.04019	0.24184	2.32534	0.25454	2.08075	5.89E-04	9.90E-06	8.32E-05	1.04E-05	7.14E-05	7.6382E-04	
520054.73	4258197.01	12831.59383	0.14523	9.65938	0.15268	6.99027	5.89E-04	5.95E-06	3.46E-04	6.25E-06	2.40E-04	1.1884E-03	
520740.97	4258389.81	12831.1545	0.10433	0.10773	0.10119	0.11191	5.89E-04	4.27E-06	3.85E-06	4.14E-06	3.84E-06	6.0478E-04	
520745.21	4258618.37	12827.66543	0.10643	0.10152	0.10305	0.10487	5.89E-04	4.36E-06	3.63E-06	4.22E-06	3.60E-06	6.0432E-04	
519949.77	4258589.61	12826.62717	0.35715	0.97771	0.39649	0.92395	5.88E-04	1.46E-05	3.50E-05	1.62E-05	3.17E-05	6.8601E-04	
520040.06	4259394.96	12823.37819	5.21773	0.12085	7.47668	0.11828	5.88E-04	2.14E-04	4.32E-06	3.06E-04	4.06E-06	1.1165E-03	
519864.08	4258772.27	12815.50683	0.28518	0.38545	0.30136	0.37461	5.88E-04	1.17E-05	1.38E-05	1.23E-05	1.29E-05	6.3861E-04	
520735.37	4258589.87	12783.93522	0.10867	0.10514	0.10516	0.10878	5.87E-04	4.45E-06	3.76E-06	4.31E-06	3.73E-06	6.0275E-04	
520737.5	4258406.59	12782.38221	0.10554	0.10838	0.10238	0.11267	5.86E-04	4.32E-06	3.88E-06	4.19E-06	3.87E-06	6.0269E-04	
519996.63	4258465	12781.94091	0.30942	2.1098	0.33065	1.88733	5.86E-04	1.27E-05	7.55E-05	1.35E-05	6.48E-05	7.5288E-04	
520089.62	4259425.71	12753.94116	13.03529	0.12163	11.8887	0.11661	5.85E-04	5.34E-04	4.35E-06	4.87E-04	4.00E-06	1.6140E-03	
519873.42	4258746.56	12747.44398	0.28887	0.42517	0.30635	0.41125	5.85E-04	1.18E-05	1.52E-05	1.25E-05	1.42E-05	6.3856E-04	
520725.58	4258551.89	12722.11779	0.11078	0.10925	0.10694	0.11306	5.84E-04	4.54E-06	3.91E-06	4.38E-06	3.88E-06	6.0037E-04	
520734.11	4258423.56	12713.02113	0.10673	0.10894	0.10348	0.11339	5.83E-04	4.37E-06	3.90E-06	4.24E-06	3.89E-06	5.9965E-04	
520049.98	4259404.95	12712.62167	7.31155	0.1202	12.97143	0.11727	5.83E-04	2.99E-04	4.30E-06	5.31E-04	4.03E-06	1.4220E-03	
520720.83	4258512.21	12711.78671	0.11154	0.11153	0.10748	0.11573	5.83E-04	4.57E-06	3.99E-06	4.40E-06	3.97E-06	6.0012E-04	
520037.84	4258233.95	12711.42201	0.15262	5.24363	0.1606	4.34703	5.83E-04	6.25E-06	1.88E-04	6.58E-06	1.49E-04	9.3279E-04	
519979.52	4258531.3	12699.51655	0.37207	1.52051	0.41104	1.39331	5.83E-04	1.52E-05	5.44E-05	1.68E-05	4.78E-05	7.1691E-04	
520764.94	4258665.9	12697.6504	0.10184	0.095	0.09889	0.09759	5.83E-04	4.17E-06	3.40E-06	4.05E-06	3.35E-06	5.9751E-04	
519989.4	4258502.16	12692.8227	0.35279	1.82147	0.38543	1.64454	5.82E-04	1.44E-05	6.52E-05	1.58E-05	5.65E-05	7.3416E-04	
520064.08	4258173.18	12690.69499	0.13982	16.86979	0.14622	9.72724	5.82E-04	5.72E-06	6.03E-04	5.99E-06	3.34E-04	1.5313E-03	
519959.69	4258570.17	12683.05881	36.4479	1.12301	0.40466	1.05109	5.82E-04	1.49E-05	4.02E-05	1.66E-05	3.61E-05	6.8963E-04	
520721.17	4258503.08	12681.36046	0.11132	0.11155	0.1073	0.11584	5.82E-04	4.56E-06	3.99E-06	4.39E-06	3.98E-06	5.9871E-04	
520721.51	4258493.94	12678.48547	0.11111	0.11155	0.10713	0.11594	5.82E-04	4.55E-06	3.99E-06	4.39E-06	3.98E-06	5.9857E-04	
520746.29	4258377.93	12664.02533	0.10277	0.10641	0.09967	0.11046	5.81E-04	4.21E-06	3.81E-06	4.08E-06	3.79E-06	5.9608E-04	
520755.1	4258637.39	12663.80033	0.10405	0.09834	0.10082	0.10137	5.81E-04	4.26E-06	3.52E-06	4.13E-06	3.48E-06	5.9638E-04	
520749.7	4258361	12661.82883	0.10156	0.10573	0.09845	0.10973	5.81E-04	4.16E-06	3.78E-06	4.03E-06	3.77E-06	5.9664E-04	
520122.35	4258122.35	12661.29794	0.13104	25.70709	0.13455	17.29996	5.81E-04	5.37E-06	9.20E-04	5.51E-06	5.94E-04	2.1052E-03	
520021.22	4258280.75	12646.67152	0.16581	3.47589	0.17307	3.0309	5.80E-04	6.79E-06	1.24E-04	7.09E-06	1.04E-04	8.2246E-04	
520730.81	4258440.75	12638.73373	0.10788	0.10952	0.10447	0.11407	5.80E-04	4.42E-06	3.92E-06	4.28E-06	3.92E-06	5.9637E-04	
519849.54	4258809.56	12630.97046	0.27591	0.33509	0.29021	0.32644	5.79E-04	1.13E-05	1.20E-05	1.19E-05	1.12E-05	6.2586E-04	
519888.22	4258709.92	12628.90984	0.29574	0.49506	0.31596	0.47803	5.79E-04	1.21E-05	1.77E-05	1.29E-05	1.64E-05	6.3855E-04	
520079.72	4259425.72	12617.15597	15.41232	0.1203	19.24512	0.11588	5.79E-04	6.31E-04	4.30E-06	7.88E-04	3.98E-06	2.0061E-03	
519969.61	4258550.74	12607.01906	0.36988	1.2994	0.40935	1.20402	5.78E-04	1.51E-05	4.65E-05	1.68E-05	4.14E-05	6.9813E-04	
520753.17	4258344.24	12604.90303	0.10028	0.10509	0.09722	0.10905	5.78E-04	4.11E-06	3.76E-06	3.98E-06	3.74E-06	5.9388E-04	
520027.92	4258258.01	12601.08256	0.15829	4.04527	0.16581	3.47211	5.78E-04	6.48E-06	1.45E-04	6.79E-06	1.19E-04	8.5528E-04	
520725.64	4258542.41	12594.2987	0.11061	0.1095	0.10672	0.11334	5.78E-04	4.53E-06	3.92E-06	4.37E-06	3.89E-06	5.9451E-04	
520727.6	4258458.19	12591.43857	0.10901	0.11009	0.10538	0.11468	5.78E-04	4.46E-06	3.94E-06	4.31E-06	3.94E-06	5.9432E-04	
520745.26	4258608.89	12587.01551	0.10625	0.10185	0.1029	0.10528	5.77E-04	4.35E-06	3.64E-06	4.21E-06	3.61E-06	5.9329E-04	
520735.42	4258580.39	12570.67549	0.1085	0.10538	0.10496	0.10905	5.77E-04	4.44E-06	3.77E-06	4.30E-06	3.74E-06	5.9297E-04	
520724.79	4258476.67	12567.99218	0.11	0.11072	0.10618	0.11523	5.77E-04	4.50E-06	3.95E-06	4.35E-06	3.96E-06	5.9336E-04	
520045.43	4258210.84	12565.39333	0.14637	6.64334	0.15414	5.28473	5.76E-04	5.99E-06	2.38E-04	6.31E-06	1.81E-04	1.0078E-03	
519997.2	4258439.37	12558.69888	0.27435	2.15685	0.29049	1.93475	5.76E-04	1.12E-05	7.71E-05	1.19E-05	6.64E-05	7.4287E-04	
520040.08	4259404.96	12547.06365	5.27491	0.11875	7.55354

520728.15	4258485.5	12279.09501	0.10919	0.1096	0.10536	0.11396	5.63E-04	4.47E-06	3.92E-06	4.31E-06	3.91E-06	5.7996E-04
520040.1	4259414.96	12278.77625	5.34353	0.11672	7.63229	0.11427	5.63E-04	2.19E-04	4.17E-06	3.12E-04	3.92E-06	1.1027E-03
520765.05	4258646.93	12275.72801	0.10153	0.09564	0.09849	0.09845	5.63E-04	4.16E-06	3.42E-06	4.03E-06	3.38E-06	5.7818E-04
520734.26	4258449.8	12275.54506	0.10713	0.10825	0.10367	0.11274	5.63E-04	4.39E-06	3.87E-06	4.24E-06	3.87E-06	5.7955E-04
520010.97	4258304.96	12257.93404	0.17221	2.82106	0.17925	2.5077	5.62E-04	7.05E-06	1.01E-04	7.34E-06	8.61E-05	7.6376E-04
520045.84	4258200.68	12254.68573	0.14222	6.72003	0.14973	5.33613	5.62E-04	5.82E-06	2.40E-04	6.13E-06	1.83E-04	9.9774E-04
520731.07	4258467.32	12249.48212	0.10819	0.10894	0.10454	0.1134	5.62E-04	4.43E-06	3.90E-06	4.28E-06	3.89E-06	5.7848E-04
519998.56	4258379.99	12234.75779	0.21419	2.24553	0.22437	2.02286	5.61E-04	8.77E-06	8.03E-05	9.19E-06	6.94E-05	7.2903E-04
519897.12	4258683.15	12233.26188	0.29648	0.54693	0.3164	0.52863	5.61E-04	1.21E-05	1.96E-05	1.30E-05	1.81E-05	6.2404E-04
520089.65	4259445.71	12212.86549	12.59876	0.11754	11.63442	0.11276	5.60E-04	5.16E-04	4.20E-06	4.76E-04	3.87E-06	1.5606E-03
520735.53	4258561.43	12208.31623	0.10816	0.10609	0.10456	0.10974	5.60E-04	4.43E-06	3.79E-06	4.28E-06	3.77E-06	5.7637E-04
520755.21	4258618.43	12195.04043	0.10371	0.09896	0.10052	0.10221	5.59E-04	4.25E-06	3.54E-06	4.12E-06	3.51E-06	5.7490E-04
519876.07	4258728.86	12181.82002	0.28142	0.4457	0.29871	0.4318	5.59E-04	1.15E-05	1.59E-05	1.22E-05	1.48E-05	6.1340E-04
520005.53	4258327.18	12180.25534	0.18167	2.54908	0.18933	2.28334	5.59E-04	7.44E-06	9.12E-05	7.75E-06	7.84E-05	7.4356E-04
519939.81	4258599.35	12176.30281	0.33603	0.87106	0.37019	0.82992	5.59E-04	1.38E-05	3.12E-05	1.52E-05	2.85E-05	6.4719E-04
520050.01	4259424.95	12171.18381	7.58902	0.11611	13.41094	0.11332	5.58E-04	3.11E-04	4.15E-06	5.49E-04	3.89E-06	1.4263E-03
520055.34	4258176.79	12167.95247	0.1372	9.85915	0.14402	7.09809	5.58E-04	5.62E-06	3.53E-04	5.90E-06	2.44E-04	1.1661E-03
520745.37	4258589.93	12136.97217	0.10592	0.10243	0.1026	0.10595	5.57E-04	4.34E-06	3.66E-06	4.20E-06	3.64E-06	5.7266E-04
520747.72	4258407.54	12133.34008	0.10309	0.10518	0.10002	0.10933	5.57E-04	4.22E-06	3.76E-06	4.10E-06	3.75E-06	5.7249E-04
519979.48	4258521.6	12123.42309	0.35485	1.53755	0.38981	1.40854	5.56E-04	1.45E-05	5.50E-05	1.60E-05	4.84E-05	6.9004E-04
519993.62	4258448.05	12117.00303	0.2788	2.02518	0.29555	1.82435	5.56E-04	1.14E-05	7.24E-05	1.21E-05	6.26E-05	7.1449E-04
520011.84	4258294.61	12093.41459	0.16691	2.86681	0.17363	2.54735	5.55E-04	6.83E-06	1.03E-04	7.11E-06	8.75E-05	7.5876E-04
520079.75	4259445.72	12081.47121	15.79727	0.11632	18.72106	0.1121	5.54E-04	6.47E-04	4.16E-06	7.67E-04	3.85E-06	1.9756E-03
519989.32	4258482.77	12079.85437	0.31952	1.85285	0.34446	1.67211	5.54E-04	1.31E-05	6.63E-05	1.41E-05	5.74E-05	7.0507E-04
520029.12	4258237.55	12079.63051	0.14918	4.1485	0.15641	3.55536	5.54E-04	6.11E-06	1.48E-04	6.40E-06	1.22E-04	8.3715E-04
520735.58	4258551.94	12062.82494	0.10801	0.10632	0.10434	0.10999	5.53E-04	4.42E-06	3.80E-06	4.27E-06	3.78E-06	5.6960E-04
520744.3	4258424.43	12054.89005	0.1042	0.10582	0.10106	0.11008	5.53E-04	4.27E-06	3.79E-06	4.14E-06	3.78E-06	5.6902E-04
520765.1	4258637.45	12054.53176	0.10138	0.09593	0.09833	0.09887	5.53E-04	4.15E-06	3.43E-06	4.03E-06	3.39E-06	5.6804E-04
520730.82	4258512.58	12050.9711	0.10878	0.10846	0.10489	0.11248	5.53E-04	4.45E-06	3.88E-06	4.29E-06	3.86E-06	5.6937E-04
520760.02	4258362.25	12043.50338	0.09925	0.10265	0.09626	0.10649	5.53E-04	4.06E-06	3.67E-06	3.94E-06	3.66E-06	5.6787E-04
519949.73	4258579.91	12035.94659	0.34403	0.99217	0.38027	0.93661	5.52E-04	1.41E-05	3.55E-05	1.56E-05	3.22E-05	6.4949E-04
520756.6	4258379.12	12034.98197	0.10042	0.10327	0.09742	0.10718	5.52E-04	4.11E-06	3.69E-06	3.99E-06	3.68E-06	5.6762E-04
519860.38	4258763.36	12033.15617	0.2704	0.38503	0.2853	0.37436	5.52E-04	1.11E-05	1.38E-05	1.17E-05	1.29E-05	6.0143E-04
519822.8	4258883.48	12031.95823	0.25909	0.26212	0.26951	0.25579	5.52E-04	1.06E-05	9.38E-06	1.10E-05	8.78E-06	5.9180E-04
520731.16	4258509.45	12023.42572	0.10859	0.10845	0.10471	0.11257	5.52E-04	4.45E-06	3.88E-06	4.29E-06	3.86E-06	5.6809E-04
520731.51	4258494.32	12021.08317	0.10839	0.10848	0.10456	0.11269	5.52E-04	4.44E-06	3.88E-06	4.28E-06	3.87E-06	5.6797E-04
520040.11	4259424.96	12019.83999	5.41791	0.11475	7.71109	0.11235	5.51E-04	2.22E-04	4.10E-06	3.16E-04	3.86E-06	1.0970E-03
519826.08	4258867.46	11990.63807	0.25803	0.27332	0.26894	0.26678	5.50E-04	1.06E-05	9.78E-06	1.10E-05	9.16E-06	5.9062E-04
520753.24	4258396.18	11986.87575	0.10156	0.10382	0.09856	0.10784	5.50E-04	4.16E-06	3.71E-06	4.04E-06	3.70E-06	5.6554E-04
519890.86	4258692.16	11980.2727	0.28815	0.51762	0.30677	0.50077	5.50E-04	1.18E-05	1.85E-05	1.26E-05	1.72E-05	6.0970E-04
519993.89	4258423.14	11979.06136	0.24956	2.0554	0.26293	1.85559	5.50E-04	1.02E-05	7.35E-05	1.08E-05	6.37E-05	7.0778E-04
520740.96	4258441.53	11977.77258	0.10528	0.10645	0.102	0.1108	5.50E-04	4.31E-06	3.81E-06	4.18E-06	3.80E-06	5.6562E-04
520036.47	4258214.54	11970.51088	0.14315	5.01769	0.15057	4.1931	5.49E-04	5.86E-06	1.79E-04	6.16E-06	1.44E-04	8.8464E-04
520755.26	4258608.95	11965.70498	0.10355	0.09928	0.1004	0.1026	5.49E-04	4.24E-06	3.55E-06	4.11E-06	3.52E-06	5.6439E-04
519845.8	4258800.53	11955.20778	0.26243	0.33548	0.27579	0.32699	5.48E-04	1.07E-05	1.20E-05	1.13E-05	1.12E-05	5.9374E-04
520107.29	4258074.19	11954.78216	0.12027	11.53685	0.12202	13.28157	5.48E-04	4.92E-06	4.13E-04	5.00E-06	4.56E-04	1.4270E-03
520046.23	4258190.53	11953.07557	0.13827	6.79314	0.14553	5.38525	5.48E-04	5.66E-06	2.43E-04	5.96E-06	1.85E-04	9.8787E-04
520063.54	4258153.43	11946.84478	0.13191	16.02437	0.13786	9.43431	5.48E-04	5.40E-06	5.73E-04	5.64E-06	3.24E-04	1.4562E-03
520735.64	4258542.46	11942.77135	0.10785	0.10658	0.10414	0.11029	5.48E-04	4.42E-06	3.81E-06	4.26E-06	3.79E-06	5.6419E-04
520096.32	4258092.08	11940.37032	0.1227	18.25557	0.12531	18.34495	5.48E-04	5.02E-06	6.53E-04	5.13E-06	6.30E-04	1.8407E-03
520734.55	4258476.44	11938.22306	0.10737	0.10781	0.10371	0.11213	5.48E-04	4.40E-06	3.86E-06	4.25E-06	3.85E-06	5.6405E-04
520745.42	4258580.45	11935.09625	0.10577	0.10269	0.10243	0.10622	5.48E-04	4.33E-06	3.67E-06	4.19E-06	3.65E-06	5.6340E-04
520737.7	4258458.86	11934.55778	0.10636	0.10708	0.10287	0.11146	5.48E-04	4.35E-06	3.83E-06	4.21E-06	3.83E-06	5.6376E-04
520050.03	4259434.95	11918.96021	7.72817	0.11417	13.66492	0.11144	5.47E-04	3.16E-04	4.08E-06	5.59E-04	3.83E-06	1.4306E-03
520012.62	4258284.3	11913.96795	0.16185	2.90839	0.16831	2.58291	5.47E-04	6.63E-06	1.04E-04	6.89E-06	8.87E-05	7.5281E-04
519969.56	4258541.04	11908.73189	0.35359	1.13493	0.38941	1.21897	5.46E-04	1.45E-05	4.70E-05	1.59E-05	4.18E-05	6.6565E-04
520019.04	4258261.68	11906.96371	0.15451	3.3041	0.16106	2.9022	5.46E-04	6.33E-06	1.18E-04	6.59E-06	9.96E-05	7.7701E-04
519829.31	4258851.31	11903.54626	0.25654	0.28504	0.26784	0.2783	5.46E-04	1.05E-05	1.02E-05	1.10E-05	9.55E-06	5.8733E-04
520084.71	4259456.12	11881.74333	14.1073	0.11492	14.22784	0.11053	5.45E-04	5.78E-04	4.11E-06	5.83E-04	3.79E-06	1.7132E-03
519869.66	4258737.5	11873.47415	0.27288	0.42364	0.28903	0.41093	5.45E-04	1.12E-05	1.52E-05	1.18E-05	1.41E-05	5.9700E-04
519833.14	4258836.61	11867.27345	0.25664	0.29735	0.26844	0.29028	5.44E-04	1.05E-05	1.06E-05	1.10E-05	9.97E-06	5.8655E-04
519959.65	4258560.47	11864.04826	0.34905	1.13651	0.38439	1.06443	5.44E-04	1.43E-05	4.07E-05	1.57E-05	3.65E-05	6.5152E-04
520055.61	4258166.69	11852.96095	0.13345	9.9536	0.14	7.14562	5.44E-04	5.46E-06	3.56E-04	5.73E-06	2.45E-04	1.1563E-03
520735.69	4258532.98	11849.73804	0.10771	0.10679	0.10396	0.11054	5.44E-04	4.41E-06	3.82E-06	4.26E-06	3.79E-06	5.5992E-04
519917.12	4258636.77	11844.39598	0.30782	0.67588	0.33314	0.65201	5.43E-04	1.26E-05	2.42E-05	1.36E-05	2.24E-05	6.1620E-04
520765.16	4258627.97	11830.2323	0.10123	0.09621	0.0982	0.09926	5.43E-04	4.14E-06	3.44E-06	4.02E-06	3.41E-06	5.5776E-04
519993.89	4258398.88	11823.69401	0.22528	2.07028	0.23627	1.87393	5.42E-04	9.22E-06	7.41E-05	9.67E-06	6.43E-05	6.9973E-04
520029.64	4258227.34	11819.04909	0.14493	4.1947	0.15204	3.59212	5.42E-04	5.93E-06	1.50E-04	6.23E-06	1.23E-04	8.2775E-04
520751.09	4258416.4	11791.58106	0.10246	0.1039	0.09939	0.10805	5.41E-04	4.20E-06	3.72E-06	4.07E-06	3.71E-06	5.5667E-04
520735.74	4258523.5	11783.27108	0.10758	0.1069	0.10379	0.11073	5.41E-04	4.40E-06	3.82E-06	4.25E-06	3.80E-06	5.5687E-04
519907.12	4258655.32	11780.79762	0.29794	0.61008	0.31971	0.58999	5.40E-04	1.22E-05	2.18E-05	1.31E-05	2.03E-05	6.0785E-04
520040.13	4259434.96	11770.74179	5.49993	0.11284	7.79856	0.11049	5.40E-04	2.25E-04	4.04E-06	3.19E-04	3.79E-06	1.0923E-03
520745.48	4258570.96	11751.98623	0.10561	0.10299	0.10224	0.10652	5.39E-04	4.32E-06	3.68E-06	4.19E-06	3.66E-06	5.5501E-04
520763.45	4258371.26	11748.21916	0.0987	0.10247	0.09577	0.10526	5.39E-04	4.04E-06	3.63E-06	3.92E-06	3.61E-06	5.5419E-04
520074.81	4259456.13	11746.51704	14.42934	0.11358	25.77511	0.10977	5.39E-04	5.91E-04	4.06E-06	1.06E-03	3.77E-06	2.1929E-03
520755.32	4258599.47	11745.45988	0.1034	0.09957	0.10027	0.10294	5.39E-04	4.23E-06	3.56E-06	4.11E-06	3.53E-06	5.5429E-04
520097.47	4258084.16	11738.06705	0.12055	17.26476	0.12298	17.8146	5.39E-04	4.94E-06	6.18E-04	5.04E-06	6.12E-04	1.7776E-03
520013.32	4258274.02	11722.50018	0.15701	2.9455	0.16327	2.61488	5.38E-04	6.43E-06	1.05E-04	6.68E-06	8.98E-05	7.4605E-04
519990.05	4258456.74	11716.47688	0.28318	1.90516	0.30079	1.7227	5.38E-04	1.16E-05	6.81E-05	1.23E-05	5.91E-05	6.8873E-04
520760.05	4258398.18	11707.82395	0.0998	0.1021	0.0969	0.10596	5.37E-04	4.09E-06	3.65E-06	3.97E-06	3.64E-06	5.5248E-04
519836.4	4258820.55	11707.00572	0.25461	0.31049	0.26678	0.30301	5.37E-04	1.04E-05	1.11E-05	1.09E-05	1.04E-05	5.7995E-04
520747.7	4258433.35	11705.48582	0.1035	0.10462	0.10035	0.10884	5.37E-04	4.24E-06	3.74E-06	4.11E-06	3.74E-06	5.5285E-04
519884.52	4258701	11704.51647	0.27958	0.4906	0.29732	0.47487	5.37E-04	1.14E-05	1.75E-05	1.22E-05	1.63E-05	5.9445E-04
520036.96	4258204.35	11696.79983	0.1392	5.07521	0.14642	4.23562	5.37E-04	5.70E-06	1.82E-04	6.00E-06	1.45E-04	8.7527E-04
520019.75	4258251.4	11691.25483	0.15006	3.35222	0.15652	2.94191	5.36E-04	6.14E-06	1.20E-04	6.41E-06	1.01E-04	7.6983E-04
519853.81	4258771.61	11685.86542	0.26156	0.36724	0.27541	0.35745	5.36E-04	1.07E-05	1.31E-05	1.13E-05	1.23E-05	5.8352E-04
519897.12	4258673.87	11681.57349	0.28844	0.55387	0.30758	0.53619	5.36E-04	1.18E-05	1.98E-05	1.26E-05	1.84E-05	5.9855E-04
520050.05	4259444.95	11674.51042	7.86108	0.1123	13.94759	0.10964	5.36E-04	3.22E-04	4.02E-06	5.71E-04	3.76E-06	1.4363E-03
519979.44	4258511.9	11670.54364	0.33868	1.55357	0.37008	1.42282	5.35E-04	1.39E-05	5.56E-05	1.52E-05	4.88E-05	6.6886E-04
520738.02	4258485.57	11659.7419	0.10656	0.1067	0.10289	0.11086	5.35E-04	4.36E-06	3.82E-06	4.21E-06	3.81E-06	5.5112E-04
520046.59	4258180.4	11659.59405	0.13452	6.86117	0.14151	5.4277	5.35E-04	5.51E-06	2.45E-04	5.79E-06	1.86E-04	9.7797E-04
520756.72	4258405.31	11647.61068	0.10094	0.10253	0.09796	0.10655	5.34E-04	4.13E-06	3.67E-06	4.01E-06	3.66E-06	5.4984E-04
520744.38	4258450.51	11639.39312	0.10454	0.10529	0.10123	0.10956	5.34E-04	4.28E-06	3.77E-06	4.14E-06	3.76E-06	5.4995E-04
520063.76	4258143.35	11631.13195	0.1284	16.22394	0.13409	9.4817	5.34E-04	5.26E-06	5.80E-04	5.49E-06	3.26E-04	1.4502E-03
520084.73	4259466.12	11630.84794	13.77693	0.11304	13.98689	0.10876	5.34E-04	5.64E-04	4.04E-06	5.73E-04	3.73E-06	1.6781E-03
520741.15	4258467.91	11617.89946	0.10556	0.10599	0.10206	0.11023	5.33E-04	4.32E-06	3.79E-06	4.18E-06	3.78E-06	5.4908E-04
519848.63	4258783.24	11616.02611	0.25798	0.35085	0.27128	0.34179	5.33E-04	1.06E-05	1.25E-05	1.11E-05	1.17E-05	5.7887E-04
520107.32	4258064.19	11614.82128	0.11726	11.54345	0.1189	13.28956	5.33E-04	4.80E-06	4.13E-04	4.87E-06	4.56E-04	1.4117E-03
520765.21	4258618.49	11607.65013	0.10109	0.0965	0.09808	0.09965	5.33E-04	4.14E-06	3.45E-06	4.02E-06	3.42E-06	5.4756E-04
520745.53	4258561.48	11591.58988	0.10546	0.1033	0.10205	0.10682	5.32E-04	4.32E-06	3.69E-06	4.18E-06	3.67E-06	5.4766E-04
519819.13	4258874.75	11572.79623	0.24826	0.263	0.25817	0.25691	5.31E-04	1.02E-05	9.41E-06	1.06E-05	8.82E-06	5.6990E-04
519928.85	4258609.09	11571.9195	0.31649	0.78265	0.34614	0.75038	5.31E-04	1.30E-05	2.80E-05	1.42E-05	2.58E-05	6.1178E-04
519863.19	4258746.03	11564.74219	0.26447	0.40319	0.27958	0.39154	5.31E-04	1.08E-05	1.44E-05	1.14E-05	1.34E-05	5.8071E-04
520001.12	4258319.01	11561.47168	0.17311	2.35762	0.18013	2.12849	5.30E-04	7.09E-06	8.43E-05	7.38E-06	7.31E-05	7.0228E-04
519990.38	4258431.67	11559.43407	0.25332	1.93677	0.26609	1.75597	5.30E-04	1.04E-05	6.93E-05	1.09E-05	6.03E-05	6.8119E-04
520755.37	4258589.98	11538.22886	0.10326	0.09985	0.10013	0.10325	5.29E-04	4.23E-06	3.57E-06	4.10E-06	3.54E-06	5.4480E-04
520040.15	4259444.96	11529.83938	5.58981	0.11098	7.89275	0.10869	5.29E-04	2.29E-04	3.97E-06	3.23E-04	3.73E-06	1.0887E-03
520074.83	4259466.13	11520.63861	14.3175	0.11173	25.2064	0.10801	5.28E-04	5.86E-04	4.00E-06	1.03E-03	3.71E-06	2.1536E-03
519822.39	4258858.67	11494.11395	0.24695	0.27402	0.2573	0.26774	5.27E-04	1.01E-05	9.80E-06	1.05E-05	9.19E-06	5.6697E-04
520054.59	4258157.12	11474.88823	0.1295	9.45464	0.13587	6.8905	5.26E-04	5.30E-06	3.38E-04	5.56E-06	2.37E-04	1.1120E-03
520020.39	4258241.14	11469.35438	0.14581	3.38971	0.15216	2.9737	5.26E-04	5.97E-06	1.21E-04	6.23E-06	1.02E-04	7.6173E-04
520002.19	4258308.58	11466.04232	0.16786	2.40161	0.1745	2.16658	5.26E-04	6.87E-06	8.59E-05	7.14E-06	7.44E-05	7.0034E-04
520745.58	4258552	11454.28654	0.10533	0.10354	0.10185	0.10707	5.26E-04	4.31E-06	3.70E-06	4.17E-06	3.68E-06	5.4136E-04
520754.47	4258425.27	11452.73628	0.10179	0.10273	0.09873	0.10686	5.25E-04	4.17E-06	3.67E-06	4.04E-06	3.67E-06	5.4098E-04
519994.93	4258351.52	11446.81165	0.18874	2.12186	0.19687	1.92717	5.25E-04	7.73E-06	7.59E-05	8.06E-06	6.62E-05	6.8300E-04
519939.77	4258589.65	11446.76697	0.32451	0.88393	0.35707	0.84077	5.25E-04	1.33E-05	3.16E-05	1.46E-05	2.89E-05	6.1354E-04
520766.88	4258380.26	11443.98906	0.09812	0.10033	0.09527	0.10407	5.25E-04	4.02E-06	3.59E-06	3.90E-06	3.57E-06	5.4011E-04
520740.81	4258512.96	11439.92732	0.10613	0.10549	0.1024	0.10936	5.25E-04	4.35E-06	3.77E-06	4.19E-06	3.75E-06	5.4091E-04
519993.61	4258362.05	11436.14783	0.19491	2.07488	0.20347	1.88569	5.25E-04	7.98E-06	7.42E-05	8.33E-06	6.47E-05	6.7993E-04
520037.42	4258194.17	11428.96272	0.13541	5.13176	0.14247	4.27669	5.24E-04	5.54E-06	1.84E-04	5.83E-06	1.47E-04	8.6609E-04
520050.06	4259454.95	11427.61853	8.09177	0.11042	14.20794	0.10783	5.24E-04	3.31E-04	3.95E-06	5.82E-04	3.70E-06	1.4450E-03
519996.08	4258341.06	11419.63228	0.18276	2.16383	0.19048	1.96419	5.24E-04	7.48E-06	7.74E-05	7.80E-06	6.74E-05	6.8402E-04
520741.16	4258503.83	11413.85342	0.10594	0.10552	0.10223	0.10946	5.24E-04	4.34E-06	3.77E-06	4.19E-06	3.76E-06	5.3970E-04
519878.13	4258709.69	11413.29674	0.27083	0.46558	0.28794	0.45079	5.24E-04	1.11E-05	1.67E-05	1.18E-05	1.55E-05	5.7863E-04
520741.5	4258494.69	11412.88106	0.10576	0.10558	0.10209	0.1096	5.24E-04	4.33E-06	3.78E-06	4.18E-06	3.76E-06	5.3965E-04
520097.5	4258074.16	11409.83044	0.11752	17.28431	0.11981	17.82044	5.23E-04	4.81E-06	6.18E-04	4.91E-06	6.12E-04	1.7632E-03
520027.51	4258218.24	11395.77086	0.13996	3.97313	0.14671	3.42692	5.23E-04	5.73E-06	1.42E-04	6.01E-06	1.18E-04	7.9432E-04
520763.5	4258397.25	11392.10153	0.09923	0.10085	0.09635	0.10472	5.23E-04	4.06E-06	3.61E-06	3.94E-06	3.60E-06	5.3786E-04
520765.26	4258609	11389.44132	0.10095	0.0968	0.09798	0.10002	5.23E-04	4.13E-06	3.46E-06	4.01E-06	3.43E-06	5.3757E-04
520084.75	4259476.12	11387.90235	13.65237	0.11118	13.6865	0.10701	5.22E-04	5.59E-04	3.98E-06	5.60E-04	3.67E-06	1.6495E-03
519992.08	4258372.67	11380.50649	0.20126	2.02181	0.21023	1.83931	5.22E-04	8.24E-06	7.23E-05	8.61E-06	6.31E-05	6.7443E-04
520046.92	4258170.27	11374.12586	0.13091	6.92348	0.13767	5.46662	5.22E-04	5.36E-06	2.48E-04	5.64E-06	1.88E-04	9.6814E-04
520751.09	4258442.28	11373.04022	0.1028	0.10346	0.09962	0.10764	5.22E-04	4.21E-06	3.70E-06	4.08E-06	3.70E-06	5.3746E-04
519825.58	4258842.46	11367.70512	0.24516	0.23654	0.25591	0.27909	5.22E-04	1.00E-05	1.02E-05	1.05E-05	9.58E-06	5.6184E-04
519986.47	4258465.43	11361.43497	0.28741	1.79455	0.3063	1.62836	5.21E-04	1.18E-05	6.42E-05	1.25E-05	5.59E-05	6.6564E-04
519997.09	4258330.66	11361.22735	0.17701	2.2015	0.18432	1.99732	5.21E-04	7.25E-06	7.87E-05	7.55E-06	6.86E-05	6.8334E-04
520003.15	4258288.19	11348.32202	0.16283	2.4407	0.1691	2.20078	5.21E-04	6.67E-06	8.73E-05	6.92E-06	7.56E-05	6.9709E-04
520755.42	4258580.5	11346.70541	0.10313	0.10011	0.09998	0.10351	5.21E-04	4.22E-06	3.58E-06	4.09E-06	3.55E-06	5.3602E-04
520745.64	4258542.52	11340.92501	0.10519	0.10376	0.10166	0.10733	5.20E-04	4.31E-06	3.71E-06	4.16E-06	3.68E-06	5.3617E-04
520744.6	4258476.96	11331.1041	0.10477	0.10472	0.10126	0.10902	5.20E-04	4.29E-06	3.75E-06	4.15E-06	3.74E-06	5.3578E-04
520063.98	4258133.27	11330.64887	0.12505	16.43267	0.13048	9.54957	5.20E-04	5.12E-06	5.88E-04	5.34E-06	3.28E-04	1.4459E-03
520747.8	4258459.5	11327.87989	0.10381	0.10414	0.10045	0.10833	5.20E-04	4.25E-06	3.72E-06	4.11E-06	3.72E-06	5.3551E-04
519969.52	4258531.34	11324.73535	0.33839	1.32981	0.37092	1.23227	5.20E-04	1.39E-05	4.76E-05	1.52E-05	4.23E-05	6.3847E-04
519829.52	4258828.01	11314.48529	0.24533	0.29782	0.25654	0.29088	5.19E-04	1.00E-05	1.07E-05	1.05E-05	9.99E-06	5.6027E-04
520760.19	4258414.43	11308.97063	0.1003	0.1013	0.09734	0.10531	5.19E-04	4.11E-06	3.62E-06	3.99E-06	3.62E-06	5.3416E-04
519979.4	4258502.21	11307.06942	0.32335	1.56857	0.35147	1.43612	5.19E-04	1.32E-05	5.61E-05	1.44E-05	4.93E-05	6.5179E-04
519872.28	4258719.71	11301.42977	0.26583	0.44272	0.28146	0.42944	5.18E-04	1.09E-05	1.58E-05	1.15E-05	1.47E-05	5.7147E-04
520040.16	4259454.96	11293.96818	5.68902	0.10917	7.99091	0.10693	5.18E-04	2.33E-04	3.90E-06	3

519818.69	4258849.89	10991.9581	0.23633	0.27455	0.24619	0.26845	5.04E-04	9.68E-06	9.82E-06	1.01E-05	9.22E-06	5.4308E-04
520765.37	4258590.04	10982.86187	0.10069	0.09736	0.09775	0.10064	5.04E-04	4.12E-06	3.48E-06	4.00E-06	3.46E-06	5.1894E-04
520763.67	4258423.56	10976.73472	0.09963	0.10016	0.09668	0.10414	5.04E-04	4.08E-06	3.58E-06	3.96E-06	3.58E-06	5.1879E-04
519850.14	4258762.77	10972.44601	0.24861	0.36636	0.26133	0.35678	5.03E-04	1.02E-05	1.31E-05	1.07E-05	1.22E-05	5.4963E-04
520035.22	4259466.2	10971.5653	4.9616	0.10665	6.60344	0.10459	5.03E-04	2.03E-04	3.81E-06	2.70E-04	3.59E-06	9.8428E-04
519986.86	4258391.7	10939.36884	0.21056	1.85797	0.22008	1.69827	5.02E-04	8.62E-06	6.65E-05	9.01E-06	5.83E-05	6.4427E-04
520106.6	4258043.98	10933.64853	0.11136	11.88598	0.11285	13.52951	5.02E-04	4.56E-06	4.25E-04	4.62E-06	4.64E-04	1.4004E-03
520084.78	4259496.12	10925.16323	12.91227	0.10767	12.93859	0.10368	5.01E-04	5.29E-04	3.85E-06	5.30E-04	3.56E-06	1.5671E-03
520028.61	4258197.81	10921.1159	0.13257	4.06418	0.13911	3.49663	5.01E-04	5.43E-06	1.45E-04	5.70E-06	1.20E-04	7.7758E-04
519844.85	4258774.14	10914.81807	0.2451	0.35033	0.25735	0.34141	5.01E-04	1.00E-05	1.25E-05	1.05E-05	1.17E-05	5.4557E-04
520055.16	4258136.91	10910.03442	0.12288	9.65391	0.12877	6.98286	5.01E-04	5.03E-06	3.45E-04	5.27E-06	2.40E-04	1.0959E-03
520038.24	4258173.86	10909.75408	0.12835	5.2302	0.13504	4.34501	5.01E-04	5.26E-06	1.87E-04	5.53E-06	1.49E-04	8.4755E-04
519929.81	4258599.39	10907.35103	0.30641	0.79332	0.33505	0.75982	5.00E-04	1.25E-05	2.84E-05	1.37E-05	2.61E-05	5.8113E-04
520755.58	4258552.06	10891.38907	0.10274	0.10089	0.09945	0.10429	5.00E-04	4.21E-06	3.61E-06	4.07E-06	3.58E-06	5.1514E-04
520011.67	4258244.74	10882.57233	0.14255	2.84	0.14808	2.53522	4.99E-04	5.84E-06	1.02E-04	6.06E-06	8.70E-05	6.9979E-04
520045.14	4259476.18	10881.7947	6.88458	0.10619	10.69573	0.10386	4.99E-04	2.82E-04	3.80E-06	4.38E-04	3.57E-06	1.2264E-03
520750.81	4258513.33	10873.8756	0.10356	0.10271	0.1	0.10641	4.99E-04	4.24E-06	3.67E-06	4.09E-06	3.65E-06	5.1453E-04
519969.48	4258521.64	10859.61698	0.32418	1.34376	0.3537	1.24481	4.98E-04	1.33E-05	4.81E-05	1.45E-05	4.27E-05	6.1677E-04
520751.15	4258504.2	10849.85966	0.10339	0.10273	0.09984	0.1065	4.98E-04	4.23E-06	3.67E-06	4.09E-06	3.66E-06	5.1942E-04
520751.49	4258495.07	10848.92829	0.10322	0.10279	0.09971	0.10662	4.98E-04	4.23E-06	3.68E-06	4.08E-06	3.66E-06	5.1337E-04
520018.55	4258221.93	10840.01517	0.13683	3.24406	0.14273	2.85985	4.97E-04	5.60E-06	1.16E-04	5.84E-06	9.82E-05	7.2298E-04
520773.74	4258398.27	10838.64	0.09698	0.098	0.09423	0.10174	4.97E-04	3.97E-06	3.51E-06	3.86E-06	3.49E-06	5.1208E-04
519821.86	4258833.61	10830.06899	0.2343	0.28607	0.24455	0.27962	4.97E-04	9.59E-06	1.02E-05	1.00E-05	9.60E-06	5.3630E-04
519880.82	4258692.07	10826.97524	0.26444	0.48514	0.28031	0.47075	4.97E-04	1.08E-05	1.74E-05	1.15E-05	1.62E-05	5.5254E-04
520761.22	4258443	10810.47096	0.1004	0.1006	0.09734	0.10461	4.96E-04	4.11E-06	3.60E-06	3.99E-06	3.59E-06	5.1125E-04
520074.88	4259496.13	10808.20329	15.68911	0.10645	22.178077	0.10298	4.96E-04	6.42E-04	3.81E-06	9.08E-04	3.54E-06	2.0536E-03
520765.42	4258580.56	10800.78768	0.10056	0.09766	0.09762	0.10094	4.96E-04	4.12E-06	3.49E-06	4.00E-06	3.47E-06	5.1059E-04
519979.32	4258482.81	10795.64776	0.29536	1.59577	0.31754	1.45977	4.95E-04	1.21E-05	5.71E-05	1.30E-05	5.01E-05	6.2757E-04
519883.36	4258448.71	10794.27214	0.26067	1.72826	0.2754	1.57766	4.95E-04	1.07E-05	6.18E-05	1.13E-05	5.42E-05	6.3315E-04
519859.47	4258737.04	10786.78924	0.25076	0.40115	0.26451	0.3899	4.95E-04	1.03E-05	1.43E-05	1.08E-05	1.34E-05	5.4371E-04
520755.64	4258542.58	10784.31248	0.10261	0.10111	0.09927	0.10453	4.95E-04	4.20E-06	3.62E-06	4.06E-06	3.59E-06	5.1023E-04
519939.73	4258579.95	10772.50679	0.31305	0.89514	0.3427	0.85118	4.94E-04	1.28E-05	3.20E-05	1.40E-05	2.92E-05	5.8231E-04
520754.64	4258477.47	10772.49718	0.10229	0.10208	0.09891	0.10601	4.94E-04	4.19E-06	3.65E-06	4.05E-06	3.64E-06	5.0975E-04
519992.24	4258322.68	10771.63474	0.16858	2.03556	0.17524	1.85996	4.94E-04	6.90E-06	7.28E-05	7.18E-06	6.39E-05	6.4492E-04
520757.89	4258460.12	10768.89645	0.10138	0.10122	0.09813	0.10523	4.94E-04	4.15E-06	3.62E-06	4.02E-06	3.61E-06	5.0944E-04
519825.91	4258819.42	10761.01318	0.23451	0.29814	0.24524	0.29122	4.94E-04	9.60E-06	1.07E-05	1.00E-05	1.00E-05	5.3400E-04
520770.4	4258415.37	10753.70131	0.09799	0.09849	0.09516	0.10235	4.93E-04	4.01E-06	3.52E-06	3.90E-06	3.51E-06	5.0830E-04
520035.24	4259476.2	10753.56069	5.00497	0.10501	6.70911	0.10299	4.93E-04	2.05E-04	3.76E-06	2.75E-04	3.54E-06	9.8027E-04
520046	4258150.68	10750.72962	0.12375	6.66743	0.13012	5.30283	4.93E-04	5.07E-06	2.38E-04	5.33E-06	1.82E-04	9.2415E-04
520096.78	4258053.95	10750.35762	0.11157	18.01865	0.11367	18.14535	4.93E-04	4.57E-06	6.45E-04	4.65E-06	6.23E-04	1.7699E-03
519993.42	4258312.2	10719.6628	0.16365	2.07438	0.16998	1.89404	4.92E-04	6.70E-06	7.42E-05	6.96E-06	6.50E-05	6.4468E-04
520755.69	4258533.09	10701.34579	0.1025	0.10128	0.09911	0.10474	4.91E-04	4.20E-06	3.62E-06	4.06E-06	3.60E-06	5.0643E-04
520061.5	4258116.61	10697.18628	0.11884	13.65703	0.12402	8.64626	4.91E-04	4.87E-06	4.88E-04	5.08E-06	2.97E-04	1.2860E-03
520012.34	4258234.48	10694.52747	0.13866	2.86959	0.1441	2.5603	4.91E-04	5.68E-06	1.03E-04	5.90E-06	8.79E-05	6.9276E-04
519983.52	4258424.08	10688.57444	0.23499	1.75046	0.24662	1.60169	4.90E-04	9.62E-06	6.26E-05	1.01E-05	5.50E-05	6.2760E-04
520029.1	4258187.62	10688.22207	0.1291	4.10761	0.13555	3.52922	4.90E-04	5.29E-06	1.47E-04	5.55E-06	1.21E-04	7.6928E-04
520045.16	4259486.18	10665.26858	7.02856	0.10452	11.02098	0.10225	4.89E-04	2.88E-04	3.74E-06	4.51E-04	3.51E-06	1.2356E-03
520082.08	4259506.95	10656.25792	13.40689	0.10552	14.06741	0.10178	4.89E-04	5.49E-04	3.77E-06	5.76E-04	3.49E-06	1.6211E-03
520767.14	4258432.68	10654.39551	0.09893	0.09911	0.096	0.10304	4.89E-04	4.05E-06	3.55E-06	3.93E-06	3.54E-06	5.0387E-04
519907.12	4258636.77	10652.02122	0.28198	0.62453	0.30367	0.60476	4.89E-04	1.15E-05	2.23E-05	1.24E-05	2.08E-05	5.5577E-04
519994.47	4258301.78	10643.77811	0.15889	2.10997	0.16491	1.92504	4.88E-04	6.51E-06	7.55E-05	6.75E-06	6.61E-05	6.4131E-04
520755.74	4258523.61	10643.00193	0.10241	0.10135	0.09897	0.10488	4.88E-04	4.19E-06	3.63E-06	4.05E-06	3.60E-06	5.0375E-04
520106.64	4258033.98	10640.27187	0.10872	11.88694	0.11013	13.52701	4.88E-04	4.45E-06	4.25E-04	4.51E-06	4.64E-04	1.3867E-03
520055.42	4258126.82	10640.112	0.11978	9.74745	0.12545	7.01866	4.88E-04	4.90E-06	3.49E-04	5.14E-06	2.41E-04	1.0878E-03
520765.48	4258571.08	10636.57503	0.10045	0.09792	0.09747	0.10119	4.88E-04	4.11E-06	3.50E-06	3.99E-06	3.47E-06	5.0307E-04
520019.2	4258211.68	10635.23792	0.13323	3.28858	0.13909	2.89728	4.88E-04	5.45E-06	1.18E-04	5.69E-06	9.95E-05	7.1617E-04
519811.79	4258857.29	10635.08246	0.22796	0.26414	0.23698	0.25845	4.88E-04	9.33E-06	9.45E-06	9.70E-06	8.87E-06	5.2527E-04
519959.56	4258541.08	10634.53003	0.32166	1.14311	0.33097	1.08859	4.88E-04	1.32E-05	4.16E-05	1.44E-05	3.74E-05	5.9442E-04
519838.31	4258782.47	10628.09417	0.23761	0.33507	0.24905	0.32682	4.88E-04	9.73E-06	1.20E-05	1.02E-05	1.12E-05	5.3073E-04
519897.12	4258655.32	10616.61773	0.27333	0.56668	0.29202	0.55002	4.87E-04	1.12E-05	2.03E-05	1.20E-05	1.89E-05	5.4937E-04
519987.55	4258344.58	10613.32298	0.17786	1.89087	0.18501	1.73451	4.87E-04	7.28E-06	6.76E-05	7.58E-06	5.95E-05	6.2896E-04
520001.27	4258269.01	10603.63537	0.14734	2.33602	0.15261	2.13509	4.86E-04	6.03E-06	8.43E-05	6.25E-06	7.33E-05	6.5633E-04
519986.31	4258355.08	10601.84911	0.18343	1.85405	0.1909	1.70155	4.86E-04	7.51E-06	6.63E-05	7.82E-06	5.84E-05	6.2645E-04
519983.45	4258400	10601.2884	0.21338	1.76232	0.22303	1.61602	4.86E-04	8.74E-06	6.30E-05	9.13E-06	5.55E-05	6.2275E-04
519988.65	4258334.14	10594.41997	0.17247	1.92421	0.17931	1.76432	4.86E-04	7.06E-06	6.88E-05	7.34E-06	6.06E-05	6.2985E-04
519874.46	4258700.84	10575.77307	0.25635	0.46102	0.27196	0.44715	4.85E-04	1.05E-05	1.65E-05	1.11E-05	1.54E-05	5.3867E-04
520036.69	4258164.51	10563.71496	0.1145	4.99211	0.13097	4.17592	4.85E-04	5.10E-06	1.79E-04	5.36E-06	1.43E-04	8.1703E-04
519887.12	4258673.87	10555.25032	0.26503	0.51696	0.28131	0.50225	4.84E-04	1.09E-05	1.85E-05	1.15E-05	1.72E-05	5.4236E-04
519984.87	4258365.66	10551.81349	0.18914	1.81234	0.19695	1.66432	4.84E-04	7.74E-06	6.48E-05	8.06E-06	5.71E-05	6.2187E-04
519995.42	4258291.4	10547.68496	0.15431	2.14017	0.16	1.9521	4.84E-04	6.32E-06	7.66E-05	6.55E-06	6.70E-05	6.4034E-04
520072.18	4259506.97	10542.71872	14.75712	0.1043	25.19065	0.10106	4.84E-04	6.04E-04	3.73E-06	1.03E-03	3.47E-06	2.1265E-03
520035.26	4259486.2	10541.93905	5.07758	0.10338	6.82972	0.10139	4.84E-04	2.08E-04	3.70E-06	2.80E-04	3.48E-06	9.7836E-04
519949.65	4258560.52	10539.86989	0.3147	1.01372	0.34318	0.95744	4.84E-04	1.29E-05	3.63E-05	1.41E-05	3.29E-05	5.7961E-04
520777.17	4258407.27	10536.71452	0.09639	0.09686	0.09366	0.1006	4.83E-04	3.95E-06	3.46E-06	3.83E-06	3.45E-06	4.9810E-04
520758.06	4258486.46	10535.17352	0.10153	0.10109	0.09816	0.10489	4.83E-04	4.16E-06	3.62E-06	4.02E-06	3.60E-06	4.9873E-04
520062	4258109.76	10534.94741	0.11695	14.08256	0.12197	8.78526	4.83E-04	4.79E-06	5.04E-04	4.99E-06	3.02E-04	1.2884E-03
519829.12	4258803.25	10534.87652	0.2321	0.31072	0.24293	0.30336	4.83E-04	9.50E-06	1.11E-05	9.95E-06	1.04E-05	5.2430E-04
519852.99	4258745.53	10525.48493	0.24335	0.38257	0.25633	0.37215	4.83E-04	9.96E-06	1.37E-05	1.05E-05	1.28E-05	5.2981E-04
520764.59	4258451.87	10519.03891	0.09971	0.09955	0.09662	0.10348	4.83E-04	4.08E-06	3.56E-06	3.96E-06	3.55E-06	4.9775E-04
520761.29	4258469.05	10498.70058	0.10064	0.10026	0.09738	0.10415	4.82E-04	4.12E-06	3.59E-06	3.99E-06	3.58E-06	4.9693E-04
520046.34	4258140.55	10497.27864	0.12064	6.73129	0.1268	5.33984	4.82E-04	4.94E-06	2.41E-04	5.19E-06	1.83E-04	9.1582E-04
520765.53	4258561.6	10492.73178	0.10034	0.09815	0.0973	0.10141	4.81E-04	4.11E-06	3.51E-06	3.98E-06	3.48E-06	4.9647E-04
519814.99	4258841.1	10486.96361	0.22617	0.27495	0.23559	0.26894	4.81E-04	9.26E-06	9.83E-06	9.65E-06	9.23E-06	5.1910E-04
519969.44	4258511.95	10479.55788	0.31066	1.35671	0.33741	1.25662	4.81E-04	1.27E-05	4.85E-05	1.38E-05	4.31E-05	5.9899E-04
520002.15	4258258.66	10465.7646	0.14329	2.39178	0.14837	2.16553	4.80E-04	5.87E-06	8.56E-05	6.07E-06	7.43E-05	6.5199E-04
519979.85	4258457.26	10464.44738	0.26423	1.63585	0.27996	1.49764	4.80E-04	1.08E-05	5.85E-05	1.15E-05	5.14E-05	6.1230E-04
520096.82	4258043.95	10464.23976	0.10891	18.03618	0.11091	17.95999	4.80E-04	4.46E-06	6.45E-04	4.54E-06	6.17E-04	1.7508E-03
519868.49	4258710.57	10461.93637	0.25126	0.43893	0.26568	0.42624	4.80E-04	1.03E-05	1.57E-05	1.09E-05	1.46E-05	5.3147E-04
520029.55	4258177.44	10458.05669	0.12578	4.14291	0.13211	3.55467	4.80E-04	5.15E-06	1.48E-04	5.41E-06	1.22E-04	7.6058E-04
520045.18	4259496.18	10455.25736	7.16622	0.1029	11.48355	0.10067	4.80E-04	2.93E-04	3.68E-06	4.70E-04	3.46E-06	1.2504E-03
520082.1	4259516.95	10444.02112	13.05274	0.10388	13.52034	0.10022	4.79E-04	5.34E-04	3.72E-06	5.54E-04	3.44E-06	1.5743E-03
520773.85	4258424.44	10439.01492	0.09733	0.09746	0.09452	0.10128	4.79E-04	3.99E-06	3.49E-06	3.87E-06	3.48E-06	4.9374E-04
519996.27	4258281.06	10435.60227	0.14992	2.16925	0.15531	1.97764	4.79E-04	6.14E-06	7.76E-05	6.36E-06	6.78E-05	6.3675E-04
520019.8	4258201.44	10424.14289	0.12973	3.31428	0.13554	2.91303	4.78E-04	5.31E-06	1.19E-04	5.55E-06	1.00E-04	7.0766E-04
519919.85	4258609.13	10408.39853	0.28969	0.7171	0.31466	0.69075	4.78E-04	1.19E-05	2.56E-05	1.29E-05	2.37E-05	5.5163E-04
520781.19	4258599.97	10370.77127	0.0969	0.09327	0.09421	0.09637	4.76E-04	3.97E-06	3.34E-06	3.86E-06	3.31E-06	4.9026E-04
520765.58	4258552.11	10369.38629	0.10023	0.09836	0.09713	0.10162	4.76E-04	4.10E-06	3.52E-06	3.98E-06	3.49E-06	4.9082E-04
520106.67	4258023.98	10356.90929	0.10619	11.89394	0.10752	13.4786	4.75E-04	4.35E-06	4.25E-04	4.40E-06	4.63E-04	1.3721E-03
520760.8	4258513.71	10349.3448	0.10108	0.10006	0.09769	0.1036	4.75E-04	4.14E-06	3.58E-06	4.00E-06	3.56E-06	4.9008E-04
520770.62	4258441.81	10346.09765	0.09822	0.09809	0.09529	0.10195	4.75E-04	4.02E-06	3.51E-06	3.90E-06	3.50E-06	4.8959E-04
520035.28	4259496.2	10336.33645	5.16322	0.10178	6.98422	0.09984	4.74E-04	2.11E-04	3.64E-06	2.86E-04	3.43E-06	9.7865E-04
520072.2	4259516.97	10334.70885	14.37437	0.1027	23.54454	0.09953	4.74E-04	5.89E-04	3.67E-06	9.64E-04	3.42E-06	2.0338E-03
520037.12	4258154.35	10329.10641	0.12137	5.04232	0.1277	4.21132	4.74E-04	4.97E-06	1.80E-04	5.23E-06	1.45E-04	8.0901E-04
519980.06	4258432.48	10327.91799	0.23809	1.65945	0.25	1.5232	4.74E-04	9.75E-06	5.94E-05	1.02E-05	5.23E-05	6.0546E-04
520761.14	4258504.58	10326.32292	0.10093	0.10006	0.09755	0.10366	4.74E-04	4.13E-06	3.58E-06	3.99E-06	3.56E-06	4.8902E-04
520761.49	4258495.44	10324.6985	0.10077	0.10008	0.09742	0.10375	4.74E-04	4.13E-06	3.58E-06	3.99E-06	3.56E-06	4.8893E-04
520002.95	4258248.34	10317.26396	0.13941	2.4217	0.14432	2.19158	4.73E-04	5.71E-06	8.66E-05	5.91E-06	7.52E-05	6.4681E-04
520009.59	4258225.63	10303.97238	0.13381	2.71691	0.13889	2.43628	4.73E-04	5.48E-06	9.72E-05	5.69E-06	8.36E-05	6.6471E-04
519929.77	4258589.69	10299.41785	0.2967	0.80389	0.32387	0.76903	4.73E-04	1.21E-05	2.88E-05	1.33E-05	2.64E-05	5.5308E-04
519818.14	4258824.77	10292.5285	0.22395	0.28628	0.2337	0.27986	4.72E-04	9.17E-06	1.02E-05	9.57E-06	9.61E-06	5.1079E-04
519846.47	4258753.92	10272.66861	0.23627	0.36519	0.24831	0.35564	4.71E-04	9.67E-06	1.31E-05	1.02E-05	1.22E-05	5.1640E-04
520765.64	4258542.63	10267.75417	0.10013	0.09854	0.09697	0.10182	4.71E-04	4.10E-06	3.52E-06	3.97E-06	3.50E-06	4.8616E-04
519862.15	4258719.38	10258.22028	0.24466	0.41795	0.25808	0.4063	4.71E-04	1.00E-05	1.49E-05	1.06E-05	1.39E-05	5.2011E-04
520764.68	4258477.97	10251.97358	0.09988	0.09938	0.09665	0.10313	4.70E-04	4.09E-06	3.55E-06	3.96E-06	3.54E-06	4.8548E-04
520046.65	4258130.44	10250.01371	0.11765	6.78975	0.12362	5.37168	4.70E-04	4.82E-06	2.43E-04	5.06E-06	1.84E-04	9.0740E-04
520767.97	4258460.73	10246.91772	0.09901	0.09856	0.0959	0.10239	4.70E-04	4.05E-06	3.53E-06	3.93E-06	3.52E-06	4.8513E-04
520082.12	4259526.95	10237.74045	12.93918	0.10227	12.98519	0.0987	4.70E-04	5.30E-04	3.66E-06	5.32E-04	3.39E-06	1.5382E-03
519841.08	4258765.04	10233.92164	0.23305	0.34921	0.24424	0.34053	4.70E-04	9.54E-06	1.25E-05	1.00E-05	1.17E-05	5.1324E-04
520780.59	4258416.28	10233.32037	0.09575	0.09583	0.09307	0.09954	4.69E-04	3.92E-06	3.43E-06	3.81E-06	3.42E-06	4.8406E-04
520020.35	4258191.23	10223.83649	0.12644	3.53863	0.13221	2.95208	4.69E-04	5.18E-06	1.20E-04	5.41E-06	1.01E-04	7.0112E-04
519822.29	4258810.82	10212.61565	0.22424	0.2681	0.23433	0.29123	4.69E-04	9.18E-06	1.07E-05	9.59E-06	1.00E-05	5.0797E-04
520042.48	4259507.02	10203.14337	6.67455	0.10088	10.25519	0.09879	4.68E-04	2.73E-04	3.61E-06	4.20E-04	3.39E-06	1.1683E-03
520778.28	4258583.39	10203.08164	0.09743	0.09447	0.09472	0.0976	4.68E-04	3.99E-06	3.38E-06	3.88E-06	3.35E-06	4.8269E-04
520096.85	4258033.95	10194.0866	0.10638	18.05343	0.10826	18.0902	4.68E-04	4.36E-06	6.44E-04	4.43E-06	6.21E-04	1.7433E-03
520765.69	4258533.15	10189.31154	0.10004	0.09868	0.09682	0.102	4.67E-04	4.10E-06	3.53E-06	3.96E-06	3.50E-06	4.8256E-04
519959.52	4258531.38	10177.30844	0.30932	1.17559	0.33664	1.0997	4.67E-04	1.27E-05	4.20E-05	1.38E-05	3.78E-05	5.7317E-04
520059.08	4258101.95	10176.29182	0.11372	11.71354	0.11872	7.89602	4.67E-04	4.66E-06	4.19E-04	4.86E-06	2.71E-04	1.1664E-03
519976.34	4258465.79	10175.01483	0.26766	1.54944	0.2847	1.42297	4.67E-04	1.10E-05	5.54E-05	1.17E-05	4.89E-05	5.9370E-04
519969.4	4258502.25	10174.482	0.29781	1.36903	0.32207	1.26774	4.67E-04	1.22E-05	4.90E-05	1.32E-05	4.35E-05	5.8466E-04
520051.71	4258116.57	10164.12809	0.11537	8.22773	0.12097	6.20541	4.66E-04	4.72E-06	2.94E-04	4.95E-06	2.13E-04	9.8332E-04
520003.69	4258238.05	10161.88672	0.13568	2.44963	0.14047	2.21563	4.66E-04	5.56E-06	8.76E-05	5.75E-06	7.61E-05	6.4120E-04
519808.11	4258848.56	10160.47539	0.21843	0.26449	0.22707	0.2589	4.66E-04	8.94E-06	9.46E-06	9.30E-06	8.89E-06	5.0273E-04
519979.54	4258385.23	10135.8031	0.19762	1.67173	0.20584	1.54142	4.65E-04	8.09E-06	5.98E-05	8.43E-06	5.29E-05	5.9424E-04
520077.3	4258433.5	10135.73052	0.09665	0.09646	0.09386	0.10002	4.65E-04	3.96E-06	3.45E-06	3.84E-06	3.44E-06	4.7970E-04
520765.74	4258523.67	10133.90903	0.09995	0.09878	0.09669	0.10216	4.65E-04	4.09E-06	3.53E-06	3.96E-06	3.51E-06	4.8002E-04
520072.22	4259526.97	10133.05515	13.88786	0.10114	22.06855	0.09804	4.65E-04	5.69E-04	3.62E-06	9.04E-04	3.37E-06	1.9441E-03
520010.31	4258215.34	10129.31854	0.13035	2.75175	0.1354	2.46564	4.65E-04	5.34E-06	9.84E-05	5.54E-06	8.46E-05	6.5867E-04
520027.74	4258168.2	10124.38825	0.12198	3.95364	0.12807	3.40939	4.64E-04	4.99E-06	1.41E-04	5.24E-06	1.17E-04	7.3319E-04
519897.12	4258646.05	10113.0582	0.2663	0.5729	0.28508	0.55643	4.64E-04	1.09E-05	2.05E-05	1.17E-05	1.91E-05	5.2614E-04
520037.52	4258144.2	10095.20871	0.11836	5.0891	0.12456	4.24224	4.63E-04	4.85E-06	1.82E-04	5.10E-06	1.46E-04	8.0076E-04
519949.61	4258550.82	10093.60485	0.30621	1.02802	0.33318	0.96999	4.63E-04	1.25E-05	3.68E-05	1.36E-05	3.33E-05	5.5933E-04
520106.7	4258013.98	10089.12547	0.10377	11.89491	0.10501	13.54855	4.63E-04	4.25E-06	4.25E-04	4.30E-06	4.65E-04	1.3620E-03
519939.69	4258570.26	10089.12041	0.30001	0.90522	0.32637	0.86026	4.63E-04	1.23E-05	3.24E-05	1.34E-05	2.95E-05	5.5043E-04
520032.58	4259507.04	10088.69869	4.85894	0.09981	6.44808	0.09797	4.63E-04	1.99E-04	3.57E-06	2.64E-04	3.36E-06	9.3274E-04
519887.12	4258664.6	10078.4998	0.25839	0.52245	0.27449	0.5083	4.62E-04	1.06E-05	1.87E-05	1.12E-05	1.75E-05	5.2034E-04
520074.09	4258450.94	10058.92857	0.09752	0.0971	0.09458	0.10087	4.61E-04	3.99E-06	3.47E-06	3.87E-06	3.46E-06	4.7629E-04
519855.74	4258728.06	10042.19271	0.23794	0.33842	0.25057	0.38761	4.61E-04	9.74E-06	1.43E-05	1.03E-05	1.33E-05	5.0828E-04
520768.08	4258486.89	10033.0629	0.09915	0.09842	0.09592	0.10205	4.60E-04	4.06E-06	3.52E-06	3.93E-06

519975.88	4258394.11	9805.55861	0.20022	1.58521	0.20852	1.46598	4.50E-04	8.20E-06	5.67E-05	8.54E-06	5.03E-05	5.7362E-04
519959.48	4258521.68	9800.85386	0.29761	1.1874	0.32273	1.11019	4.50E-04	1.22E-05	4.25E-05	1.32E-05	3.81E-05	5.5563E-04
520777.57	4258460.06	9792.3888	0.0968	0.09616	0.09385	0.09982	4.49E-04	3.96E-06	3.44E-06	3.84E-06	3.43E-06	4.6393E-04
520000.63	4258229.33	9786.83834	0.13091	2.31813	0.13535	2.10655	4.49E-04	5.36E-06	8.29E-05	5.54E-06	7.23E-05	6.1514E-04
520060.26	4258084.04	9783.85703	0.10921	12.47338	0.11384	8.17456	4.49E-04	4.47E-06	4.46E-04	4.66E-06	2.81E-04	1.1848E-03
520078.02	4259548.19	9780.24726	13.67845	0.09856	14.27527	0.09535	4.49E-04	5.60E-04	3.53E-06	5.84E-04	3.27E-06	1.6000E-03
520011.61	4258194.84	9774.10277	0.12385	2.8111	0.12885	2.51358	4.48E-04	5.07E-06	1.01E-04	5.28E-06	8.63E-05	6.4561E-04
520774.72	4258478.46	9768.6547	0.09757	0.09675	0.09447	0.10034	4.48E-04	3.99E-06	3.46E-06	3.87E-06	3.44E-06	4.6294E-04
519994.23	4258251.94	9765.24516	0.13633	2.08716	0.14086	1.91061	4.48E-04	5.58E-06	7.47E-05	5.77E-06	6.56E-05	5.9961E-04
519814.42	4258815.92	9761.40448	0.21414	0.28605	0.22325	0.2798	4.48E-04	8.77E-06	1.02E-05	9.14E-06	9.61E-06	4.8558E-04
519929.73	4258580	9737.53833	0.28716	0.81393	0.31238	0.77783	4.47E-04	1.18E-05	2.91E-05	1.28E-05	2.67E-05	5.2710E-04
520788.42	4258583.44	9733.13381	0.09504	0.0921	0.09249	0.09513	4.47E-04	3.89E-06	3.29E-06	3.79E-06	3.27E-06	4.6078E-04
520776.55	4258540.86	9730.70751	0.09752	0.09579	0.09451	0.09895	4.46E-04	3.99E-06	3.43E-06	3.87E-06	3.40E-06	4.6111E-04
519969.32	4258482.85	9716.63933	0.2739	1.39181	0.2936	1.28781	4.46E-04	1.12E-05	4.98E-05	1.20E-05	4.42E-05	5.6301E-04
520032.61	4259527.04	9709.45867	5.0545	0.09684	6.84375	0.09507	4.45E-04	2.07E-04	3.46E-06	2.80E-04	3.26E-06	9.3934E-04
520028.69	4258147.84	9706.57336	0.11609	4.03433	0.12203	3.47004	4.45E-04	4.75E-06	1.44E-04	5.00E-06	1.19E-04	7.1850E-04
520018.79	4258171.9	9697.86576	0.11949	3.22835	0.12496	2.84429	4.45E-04	4.89E-06	1.15E-04	5.12E-06	9.76E-05	6.6805E-04
519804.44	4258839.83	9686.40759	0.20935	0.26463	0.21754	0.2591	4.44E-04	8.57E-06	9.47E-06	8.91E-06	8.90E-06	4.8023E-04
520096.91	4258013.95	9683.71756	0.10161	18.0904	0.10328	18.227	4.44E-04	4.16E-06	6.47E-04	4.23E-06	6.26E-04	1.7255E-03
520049.29	4258101.92	9682.97867	0.11046	7.43598	0.11587	5.7418	4.44E-04	4.52E-06	2.66E-04	4.74E-06	1.97E-04	9.1660E-04
520068.12	4259548.21	9682.44278	16.11111	0.09748	25.7271	0.0947	4.44E-04	6.60E-04	3.49E-06	1.05E-03	3.25E-06	2.1640E-03
519818.67	4258802.23	9675.87551	0.21457	0.29765	0.22384	0.29091	4.44E-04	8.78E-06	1.06E-05	9.16E-06	9.99E-06	4.8249E-04
519864.7	4258701.43	9670.97579	0.23769	0.43422	0.25119	0.42223	4.44E-04	9.73E-06	1.55E-05	1.03E-05	1.45E-05	4.9373E-04
520787.45	4258434.29	9662.25981	0.09449	0.09378	0.09179	0.09742	4.43E-04	3.87E-06	3.35E-06	3.76E-06	3.34E-06	4.5761E-04
519995.03	4258241.62	9647.27085	0.1328	2.11694	0.13716	1.93654	4.43E-04	5.44E-06	7.57E-05	5.62E-06	6.65E-05	5.9585E-04
520001.43	4258219.01	9640.99006	0.12758	2.34414	0.13194	2.12809	4.42E-04	5.22E-06	8.38E-05	5.40E-06	7.31E-05	6.0984E-04
519897.12	4258636.77	9635.59389	0.25966	0.57906	0.27838	0.56262	4.42E-04	1.06E-05	2.07E-05	1.14E-05	1.93E-05	5.0412E-04
519887.12	4258655.32	9615.97693	0.25199	0.52789	0.26823	0.51403	4.41E-04	1.03E-05	1.89E-05	1.10E-05	1.76E-05	4.9899E-04
519949.56	4258541.12	9613.25704	0.20875	1.03852	0.21968	0.93968	4.41E-04	1.21E-05	3.71E-05	1.31E-05	3.36E-05	5.3698E-04
520785.55	4258566.75	9610.21114	0.0956	0.09314	0.09292	0.09618	4.41E-04	3.91E-06	3.33E-06	3.80E-06	3.30E-06	4.5525E-04
519842.8	4258745.07	9606.34751	0.22485	0.36324	0.23601	0.35395	4.41E-04	9.21E-06	1.30E-05	9.66E-06	1.22E-05	4.8473E-04
519939.65	4258560.56	9599.20249	0.29083	0.91662	0.31523	0.87023	4.40E-04	1.19E-05	3.28E-05	1.29E-05	2.99E-05	5.2785E-04
520012.18	4258184.61	9594.70575	0.12078	2.84047	0.12577	2.53661	4.40E-04	4.95E-06	1.02E-04	5.15E-06	8.71E-05	6.3897E-04
520078.04	4259558.19	9594.27016	13.29701	0.0971	13.63606	0.09396	4.40E-04	5.44E-04	3.47E-06	5.58E-04	3.23E-06	1.5496E-03
520784.2	4258451.63	9586.0977	0.0953	0.09451	0.09247	0.09812	4.40E-04	3.90E-06	3.38E-06	3.79E-06	3.37E-06	4.5423E-04
520106.76	4257993.98	9584.91434	0.09922	11.8949	0.10029	13.68228	4.40E-04	4.06E-06	4.25E-04	4.11E-06	4.70E-04	1.3431E-03
519877.12	4258673.87	9573.60401	0.24453	0.48377	0.25879	0.47135	4.39E-04	1.00E-05	1.73E-05	1.06E-05	1.62E-05	4.9331E-04
519837.31	4258755.94	9568.23654	0.22156	0.34788	0.23219	0.33923	4.39E-04	9.07E-06	1.24E-05	9.51E-06	1.16E-05	4.8164E-04
520038.4	4259538.26	9565.66084	6.23596	0.09581	9.40905	0.09395	4.39E-04	2.55E-04	3.43E-06	3.85E-04	3.23E-06	1.0861E-03
520778.1	4258487.33	9564.37232	0.09686	0.09581	0.09376	0.09929	4.39E-04	3.97E-06	3.43E-06	3.84E-06	3.41E-06	4.5344E-04
520781.04	4258469.19	9550.27142	0.09609	0.09523	0.09313	0.09878	4.38E-04	3.93E-06	3.41E-06	3.81E-06	3.39E-06	4.5269E-04
520060.29	4258074.04	9546.30997	0.10664	12.44701	0.11111	8.15151	4.38E-04	4.37E-06	4.45E-04	4.55E-06	2.80E-04	1.1719E-03
519858.39	4258710.33	9522.97999	0.23224	0.41387	0.24444	0.40304	4.37E-04	9.51E-06	1.48E-05	1.00E-05	1.38E-05	4.8505E-04
520783.03	4258549.27	9515.25567	0.09607	0.09404	0.09322	0.09711	4.37E-04	3.93E-06	3.36E-06	3.82E-06	3.33E-06	4.5099E-04
520780.1	4258532.72	9511.41173	0.09663	0.09509	0.09364	0.09822	4.36E-04	3.96E-06	3.40E-06	3.83E-06	3.37E-06	4.5093E-04
520019.35	4258161.68	9510.49903	0.11662	3.26852	0.12207	2.87756	4.36E-04	4.77E-06	1.17E-04	5.00E-06	9.88E-05	6.6180E-04
520068.14	4259558.21	9499.75991	15.78501	0.09604	23.91989	0.09332	4.36E-04	6.46E-04	3.44E-06	9.79E-04	3.20E-06	2.0682E-03
520029.13	4258137.67	9499.72082	0.11332	4.06927	0.11917	3.44939	4.36E-04	4.64E-06	1.44E-04	4.88E-06	1.20E-04	7.1087E-04
520002.17	4258208.72	9491.05378	0.1244	2.37366	0.12871	2.15308	4.35E-04	5.09E-06	8.49E-05	5.27E-06	7.39E-05	6.0461E-04
519807.6	4258823.53	9483.97154	0.2073	0.27496	0.21561	0.2691	4.35E-04	8.49E-06	9.83E-06	8.83E-06	9.24E-06	4.7150E-04
519959.44	4258511.99	9474.3596	0.28613	1.19796	0.30903	1.12	4.35E-04	1.17E-05	4.28E-05	1.27E-05	3.85E-05	5.4033E-04
519972.23	4258403	9473.71837	0.20279	1.50523	0.21117	1.39581	4.35E-04	8.30E-06	5.38E-05	8.65E-06	4.79E-05	5.5334E-04
520028.5	4259538.27	9463.30576	4.55887	0.09485	6.01299	0.09318	4.34E-04	1.87E-04	3.39E-06	2.46E-04	3.20E-06	8.7361E-04
520049.32	4258091.92	9453.36662	0.10785	7.42415	0.11308	5.7286	4.34E-04	4.42E-06	2.66E-04	4.63E-06	1.97E-04	9.0497E-04
519972.52	4258378.02	9450.30447	0.18572	1.51985	0.1928	1.41171	4.34E-04	7.60E-06	5.44E-05	7.89E-06	4.85E-05	5.5189E-04
520780.44	4258523.59	9448.97268	0.09649	0.09513	0.09347	0.09829	4.34E-04	3.95E-06	3.40E-06	3.83E-06	3.37E-06	4.4806E-04
520096.94	4258003.95	9444.07918	0.09937	18.1056	0.10094	18.34843	4.33E-04	4.07E-06	6.48E-04	4.13E-06	6.30E-04	1.7190E-03
519909.85	4258609.17	9426.16712	0.26659	0.65977	0.28772	0.63827	4.32E-04	1.09E-05	2.36E-05	1.18E-05	2.19E-05	5.0066E-04
520108.08	4257984.88	9417.26912	0.09751	11.35439	0.09847	13.21272	4.32E-04	3.99E-06	4.06E-04	4.03E-06	4.54E-04	1.2998E-03
519983.51	4258276.34	9414.48667	0.14066	1.78113	0.14545	1.6478	4.32E-04	5.76E-06	6.37E-05	5.96E-06	5.66E-05	5.6391E-04
520078.06	4259558.19	9413.69793	12.93113	0.09567	13.03476	0.0926	4.32E-04	5.29E-04	3.42E-06	5.34E-04	3.18E-06	1.5012E-03
519969.69	4258457.69	9411.29972	0.24709	1.42358	0.26139	1.31703	4.32E-04	1.01E-05	5.09E-05	1.07E-05	4.52E-05	5.4873E-04
520780.79	4258514.46	9407.48737	0.09637	0.09509	0.09332	0.09832	4.32E-04	3.95E-06	3.40E-06	3.82E-06	3.38E-06	4.4614E-04
519821.84	4258785.95	9404.81432	0.212	0.30938	0.22115	0.30232	4.31E-04	8.68E-06	1.11E-05	9.05E-06	1.04E-05	4.7065E-04
520790.88	4258443.29	9394.91741	0.09382	0.09287	0.09112	0.09643	4.31E-04	3.84E-06	3.32E-06	3.73E-06	3.31E-06	4.4523E-04
520038.42	4259548.26	9387.78631	6.40719	0.09441	9.86949	0.09258	4.31E-04	2.62E-04	3.38E-06	4.04E-04	3.18E-06	1.1037E-03
520781.13	4258525.32	9385.85562	0.09625	0.09502	0.09318	0.0983	4.31E-04	3.94E-06	3.40E-06	3.82E-06	3.37E-06	4.4513E-04
520781.47	4258496.19	9383.73054	0.09614	0.09493	0.09307	0.09829	4.31E-04	3.94E-06	3.40E-06	3.81E-06	3.37E-06	4.4502E-04
519830.82	4258764.41	9360.18907	0.21549	0.33297	0.22538	0.32498	4.29E-04	8.82E-06	1.19E-05	9.23E-06	1.12E-05	4.7055E-04
519975.86	4258319.45	9358.35243	0.15549	1.60027	0.16088	1.44798	4.29E-04	6.37E-06	5.72E-05	6.59E-06	5.11E-05	5.5062E-04
519977.1	4258308.95	9348.50648	0.15129	1.62839	0.15653	1.5133	4.29E-04	6.19E-06	5.82E-05	6.41E-06	5.20E-05	5.5169E-04
520789.18	4258558.43	9346.82036	0.09472	0.09246	0.09204	0.09545	4.29E-04	3.88E-06	3.31E-06	3.77E-06	3.28E-06	4.4304E-04
519974.47	4258330.01	9343.13279	0.1598	1.56974	0.16535	1.46035	4.29E-04	6.54E-06	5.61E-05	6.77E-06	5.01E-05	5.4824E-04
519852.02	4258719.08	9338.94971	0.22606	0.395	0.23772	0.38475	4.28E-04	9.26E-06	1.41E-05	9.73E-06	1.32E-05	4.7478E-04
519984.56	4258265.92	9338.34752	0.13697	1.80536	0.14153	1.66929	4.28E-04	5.61E-06	6.46E-05	5.79E-06	5.73E-05	5.6171E-04
520787.65	4258460.69	9337.84691	0.0946	0.09363	0.09177	0.09714	4.28E-04	3.87E-06	3.35E-06	3.76E-06	3.33E-06	4.4272E-04
520002.86	4258198.45	9335.21178	0.12132	2.3922	0.12558	2.16703	4.28E-04	4.97E-06	8.56E-05	5.14E-06	7.44E-05	5.9835E-04
520784.51	4258478.31	9331.38379	0.09538	0.09429	0.09241	0.09773	4.28E-04	3.91E-06	3.37E-06	3.78E-06	3.36E-06	4.4252E-04
520050.47	4258084.01	9330.49645	0.1062	7.74807	0.11126	5.91875	4.28E-04	4.35E-06	2.77E-04	4.56E-06	2.03E-04	9.1730E-04
519919.77	4258589.73	9325.94472	0.27263	0.73527	0.29571	0.70653	4.28E-04	1.12E-05	2.63E-05	1.21E-05	2.43E-05	5.0168E-04
520019.87	4258151.48	9324.93641	0.11385	3.30234	0.11927	2.90367	4.28E-04	4.66E-06	1.18E-04	4.88E-06	9.97E-05	6.5516E-04
520068.16	4259568.21	9322.18872	15.5962	0.09463	22.34603	0.09198	4.28E-04	6.39E-04	3.38E-06	9.15E-04	3.16E-06	1.9877E-03
520060.32	4258064.04	9316.86843	0.10417	12.42092	0.10848	8.11523	4.27E-04	4.27E-06	4.44E-04	4.44E-06	2.79E-04	1.1590E-03
519978.21	4258298.5	9316.75908	0.1472	1.65378	0.15228	1.53609	4.27E-04	6.03E-06	5.92E-05	6.23E-06	5.27E-05	5.5159E-04
520786.56	4258541.19	9289.57364	0.09521	0.09337	0.09237	0.09641	4.26E-04	3.90E-06	3.34E-06	3.78E-06	3.31E-06	4.4052E-04
520028.52	4259548.27	9288.97956	4.65018	0.09347	6.19428	0.09183	4.26E-04	1.90E-04	3.34E-06	2.54E-04	3.15E-06	8.7667E-04
519991.67	4258233.03	9288.29264	0.12811	2.00629	0.13216	1.8425	4.26E-04	5.25E-06	7.18E-05	5.41E-06	6.33E-05	5.7180E-04
519969.8	4258433.17	9286.65983	0.22411	1.44246	0.23461	1.33715	4.26E-04	9.18E-06	5.16E-05	9.61E-06	4.59E-05	5.4234E-04
520009.85	4258175.59	9284.92134	0.11707	2.71117	0.1218	2.43023	4.26E-04	4.79E-06	9.70E-05	4.99E-06	8.34E-05	6.1616E-04
519979.21	4258288.1	9266.24954	0.14324	1.67597	0.14813	1.55614	4.25E-04	5.86E-06	5.99E-05	6.07E-06	5.34E-05	5.5042E-04
519985.51	4258255.54	9242.89527	0.13339	1.82578	0.13772	1.68731	4.24E-04	5.46E-06	6.53E-05	5.64E-06	5.79E-05	5.5838E-04
519810.69	4258807.07	9239.13126	0.20486	0.28565	0.21321	0.27942	4.24E-04	8.39E-06	1.02E-05	8.73E-06	9.59E-06	4.6080E-04
519929.69	4258570.3	9230.2262	0.27779	0.82342	0.30089	0.78623	4.23E-04	1.14E-05	2.95E-05	1.23E-05	2.70E-05	5.0360E-04
519949.52	4258531.42	9226.61256	0.28431	1.04888	0.30744	0.98896	4.23E-04	1.16E-05	3.75E-05	1.26E-05	3.40E-05	5.1900E-04
519800.77	4258831.1	9215.91684	0.20072	0.2645	0.20835	0.25904	4.23E-04	8.22E-06	9.46E-06	8.53E-06	8.89E-06	4.5791E-04
520038.44	4259558.26	9214.92422	6.59381	0.09304	10.38266	0.09125	4.23E-04	2.70E-04	3.33E-06	4.25E-04	3.13E-06	1.1143E-03
519971.77	4258341.11	9212.19228	0.16361	1.51317	0.16924	1.40975	4.23E-04	6.70E-06	5.41E-05	6.93E-06	4.84E-05	5.3879E-04
520096.97	4257993.95	9211.90676	0.0972	18.12302	0.09869	18.37007	4.23E-04	3.98E-06	6.48E-04	4.04E-06	6.31E-04	1.7095E-03
519959.4	4258502.29	9196.64156	0.27507	1.20778	0.29593	1.12923	4.22E-04	1.13E-05	4.32E-05	1.21E-05	3.88E-05	5.2727E-04
520108.11	4257974.88	9191.18774	0.09545	11.34093	0.09632	13.25142	4.22E-04	3.91E-06	4.06E-04	3.94E-06	4.55E-04	1.2901E-03
520003.5	4258188.2	9182.01906	0.11839	2.42265	0.12264	2.19267	4.21E-04	4.85E-06	8.67E-05	5.02E-06	7.53E-05	5.9305E-04
520795.64	4258566.91	9179.07729	0.0933	0.09085	0.09078	0.09378	4.21E-04	3.82E-06	3.25E-06	3.72E-06	3.22E-06	4.3512E-04
520073.53	4259579.43	9176.91376	14.01962	0.09365	15.29984	0.09085	4.21E-04	5.74E-04	3.35E-06	6.26E-04	3.12E-06	1.6279E-03
519887.12	4258646.05	9174.82797	0.24589	0.53331	0.26231	0.51949	4.21E-04	1.01E-05	1.91E-05	1.07E-05	1.78E-05	4.7864E-04
519966.23	4258466.09	9173.17028	0.24986	1.35425	0.26537	1.25654	4.21E-04	1.02E-05	4.84E-05	1.09E-05	4.31E-05	5.3352E-04
519970.5	4258351.62	9172.05425	0.16829	1.48644	0.17415	1.38533	4.21E-04	6.89E-06	5.32E-05	7.13E-06	4.76E-05	5.3554E-04
519939.61	4258550.86	9170.87981	0.28145	0.9259	0.3042	0.87931	4.21E-04	1.15E-05	3.31E-05	1.25E-05	3.02E-05	5.0803E-04
519992.55	4258222.68	9169.81687	0.12493	2.03179	0.12884	1.86413	4.21E-04	5.12E-06	7.27E-05	5.28E-06	6.40E-05	5.6776E-04
519845.6	4258727.71	9156.44241	0.22008	0.3773	0.23109	0.36772	4.20E-04	9.01E-06	1.35E-05	9.46E-06	1.26E-05	4.6467E-04
519968.92	4258386.77	9154.02493	0.18797	1.44673	0.19508	1.34722	4.20E-04	7.70E-06	5.17E-05	7.99E-06	4.63E-05	5.3365E-04
519877.12	4258664.6	9152.52742	0.23879	0.48847	0.25301	0.47652	4.20E-04	9.78E-06	1.75E-05	1.04E-05	1.64E-05	4.7387E-04
519815.06	4258793.63	9150.26747	0.20541	0.29685	0.21388	0.29029	4.20E-04	8.41E-06	1.06E-05	8.76E-06	9.97E-06	4.5755E-04
519986.38	4258245.19	9149.26541	0.13	1.84963	0.13412	1.70791	4.20E-04	5.32E-06	6.62E-05	5.49E-06	5.86E-05	5.5536E-04
519968.57	4258411.89	9144.65833	0.20531	1.43072	0.21379	1.33004	4.20E-04	8.41E-06	5.12E-05	8.75E-06	4.57E-05	5.3354E-04
520794.31	4258452.29	9144.30753	0.09315	0.09201	0.09004	0.09548	4.20E-04	3.81E-06	3.29E-06	3.70E-06	3.28E-06	4.3361E-04
520020.36	4258141.29	9140.88848	0.11118	3.3309	0.11658	2.92466	4.19E-04	4.55E-06	1.19E-04	4.77E-06	1.00E-04	6.4824E-04
520787.99	4258487.44	9134.14999	0.09466	0.09339	0.0917	0.09671	4.19E-04	3.88E-06	3.34E-06	3.75E-06	3.32E-06	4.3335E-04
520028.53	4259558.27	9119.36458	4.75639	0.09212	6.38938	0.09052	4.18E-04	1.95E-04	3.30E-06	2.62E-04	3.11E-06	8.8114E-04
520010.47	4258165.34	9118.70179	0.1143	2.73877	0.11904	2.45173	4.18E-04	4.68E-06	9.80E-05	4.87E-06	8.42E-05	6.1003E-04
520050.5	4258074.01	9115.86746	0.10377	7.73284	0.10865	5.90757	4.18E-04	4.25E-06	2.77E-04	4.45E-06	2.03E-04	9.0632E-04
520791.1	4258469.75	9112.84737	0.09391	0.09274	0.09107	0.09614	4.18E-04	3.85E-06	3.32E-06	3.73E-06	3.30E-06	4.3227E-04
519867.12	4258683.15	9105.61893	0.23174	0.44955	0.24455	0.43844	4.18E-04	9.49E-06	1.61E-05	1.00E-05	1.51E-05	4.6838E-04
520063.63	4259579.45	9088.08683	14.7088	0.09262	29.17623	0.09021	4.17E-04	6.02E-04	3.31E-06	1.19E-03	3.10E-06	2.2202E-03
520098.39	4257984.85	9057.52745	0.09557	16.98966	0.09692	17.78398	4.16E-04	3.91E-06	6.08E-04	3.97E-06	6.11E-04	1.6417E-03
520059.57	4258053.82	9052.75742	0.10151	11.8343	0.10573	7.79413	4.15E-04	4.16E-06	4.23E-04	4.38E-06	2.68E-04	1.1147E-03
520038.45	4259568.26	9046.83487	6.78536	0.09171	10.95257	0.08995	4.15E-04	2.78E-04	3.28E-06	4.48E-04	3.09E-06	1.1477E-03
519993.36	4258212.35	9044.7432	0.12186	2.05745	0.12567	1.88502	4.15E-04	4.99E-06	7.36E-05	5.15E-06	6.47E-05	5.6340E-04
519899.89	4258618.91	9025.0365	0.25304	0.60311	0.2717	0.58573	4.14E-04	1.04E-05	2.16E-05	1.11E-05	2.01E-05	4.7722E-04
520790.44	4258523.96	9024.35512	0.09424	0.09274	0.09138	0.09577	4.14E-04	3.86E-06	3.32E-06	3.74E-06	3.29E-06	4.2823E-04
520073.55	4259589.43	9008.68365	13.47585	0.09231	14.54239	0.08957	4.13E-04	5.52E-04	3.30E-06	5.95E-04	3.08E-06	1.5669E-03
519966.38	4258441.47	9000.30575	0.22666	1.17529	0.23782	1.27769	4.13E-04	9.28E-06	4.92E-05	9.74E-06	4.39E-05	5.2499E-04
519803.9	4258814.74	8989.96271	0.19854	0.27457	0.20624	0.26877	4.12E-04	8.13E-06	9.82E-06	8.44E-06	9.23E-06	4.4806E-04
520790.78	4258514.83	8984.51318	0.09414	0.0927	0.09124	0.09578	4.12E-04	3.85E-06	3.32E-06	3.74E-06	3.29E-06	4.2639E-04
519959.36	4258492.59	8982.68706	0.26474	1.21761	0.28385	1.13808	4.12E-04	1.08E-05	4.36E-05	1.16E-05	3.91E-05	5.1719E-04
519839.13	4258736.23	8976.09505	0.21431	0.36067	0.22456	0.35181	4.12E-04	8.77E-06	1.29E-05	9.19E-06	1.21E-05	4.5475E-04
519962.78	4258474.49	8970.95114	0.25243	1.28892	0.26905	1.19979	4.12E-04	1.03E-05	4.61E-05	1.10E-05	4.12E-05	5.2021E-04
520108.14	4257964.88	8964.35861	0.09342	11.34153	0.09424	13.27536	4.11E-04	3.82E-06	4.06E-04	3.86E-06	4.56E-04	1.2804E-03
520791.12	4258505.7	8963.18617	0.09403	0.09262	0.09111	0.09576	4.11E-04	3.85E-06	3.31E-06	3.73E-06	3.29E-06	4.2539E-04
519860.91	4258692.29	8960.72871	0.22586	0.42876	0.23823	0.41796	4.11E-04	9.25E-06	1.53E-05	9.75E-06	1.43E-05	4.5979E-04
520791.46	4258496.57	8960.48903	0.09393	0.09255	0.09101	0.09575	4.11E-04	3.85E-06	3.31E-06	3.73E-06	3.29E-06	4.2526E-04
520028.55	4259568.27	8954.55006	4.86811	0.09081	6.60112	0.08924	4.11E-04	1.99E-04	3.25E-06	2.70E-04	3.06E-06	8.8673E-04
520011.05	4258155.12	8953.39691	0.11164	2.76509	0.11639	2.47229	4.11E-04	4.57E-06	9.89E-05	4.77E-06	8.49E-05	6.0388E-04
519909.81	4258599.47	8944.34895	0.25907	0.6676	0.27963	0.64511	4.10E-04	1.06E-05	2.39E-05	1.14E-05	2.21E-05	4.7843E-04
519833.53	4258746.84	8940.22306	0.21103	0.3457	0.22077	0.3374	4.10E-04	8.64E-06	1.24E-05	9.04E-06	1.16E-05	4.5179E-04
520063.65	4259589.45	8922.5916	14.4781	0.0913	26.94141	0.08894	4.09E-04	5.93E-04	3.27E-06	1.10E-03	3.05E-06	2.1116E-03
519994.11	4258202.06	8914.47694	0.11891	2.07672	0.12263	1.90169	4.09E-04	4.87E-06	7.43E-05	5.02E-06	6.53E-05	5.5844E-04
520797.74	4258461.3	8911.78299	0.09246	0.09122	0.08975	0.09457	4.09E-04	3.79E-06	3.26E-06	3.67E-06	3.25E-06	4.2283E-04
520794.56	4258478.82	8907.95756	0.0932	0.09189	0.09037	0.09517	4.09E-04	3.82E-06	3.29E-06

520800.09	4258533.47	8685.76217	0.09218	0.09037	0.0895	0.09325	3.98E-04	3.77E-06	3.23E-06	3.66E-06	3.20E-06	4.1236E-04
519848.29	4258710.1	8675.83386	0.21495	0.3909	0.22589	0.38128	3.98E-04	8.80E-06	1.40E-05	9.25E-06	1.31E-05	4.4315E-04
519977.73	4258248.76	8674.66154	0.12731	1.63443	0.13127	1.52116	3.98E-04	5.21E-06	5.85E-05	5.37E-06	5.22E-05	5.1925E-04
520033.94	4259589.5	8665.97333	6.10968	0.08858	9.29212	0.08698	3.98E-04	2.50E-04	3.17E-06	3.80E-04	2.99E-06	1.0343E-03
520049.79	4258053.79	8659.7136	0.09886	7.48118	0.10351	5.70835	3.97E-04	4.05E-06	2.68E-04	4.24E-06	1.96E-04	8.6914E-04
520059.64	4258033.82	8643.83059	0.09709	11.78613	0.10102	7.76828	3.97E-04	3.98E-06	4.22E-04	4.14E-06	2.67E-04	1.0929E-03
519811.44	4258785.04	8635.90186	0.1967	0.29577	0.20449	0.28938	3.96E-04	8.05E-06	1.06E-05	8.37E-06	9.93E-06	4.3314E-04
520098.35	4257964.85	8630.39604	0.09159	17.00253	0.0928	17.84891	3.96E-04	3.75E-06	6.08E-04	3.80E-06	6.13E-04	1.6244E-03
520800.43	4258524.34	8628.65184	0.09207	0.09043	0.08935	0.09333	3.96E-04	3.77E-06	3.23E-06	3.66E-06	3.20E-06	4.0973E-04
519984.55	4258215.99	8613.38912	0.11942	1.80161	0.12294	1.66492	3.95E-04	4.89E-06	6.44E-05	5.03E-06	5.72E-05	5.2669E-04
519949.44	4258512.03	8612.49906	0.26443	1.06738	0.28406	1.00591	3.95E-04	1.08E-05	3.82E-05	1.16E-05	3.45E-05	4.9029E-04
520063.68	4259609.45	8605.38064	13.80921	0.08876	23.1832	0.0865	3.95E-04	5.65E-04	3.17E-06	9.49E-04	2.97E-06	1.9156E-03
519963.34	4259344.59	8593.14387	0.15927	1.31759	0.16433	1.27261	3.94E-04	6.52E-06	4.86E-05	6.73E-06	4.37E-05	4.9974E-04
520002.23	4258158.76	8591.90534	0.1095	2.35647	0.11352	2.13449	3.94E-04	4.48E-06	8.43E-05	4.65E-06	7.33E-05	5.6088E-04
520800.77	4258515.21	8589.32955	0.09197	0.09041	0.08922	0.09336	3.94E-04	3.77E-06	3.23E-06	3.65E-06	3.21E-06	4.0792E-04
519899.85	4258609.21	8582.40452	0.24638	0.6095	0.26454	0.59174	3.94E-04	1.01E-05	2.18E-05	1.08E-05	2.03E-05	4.5678E-04
520024.04	4259589.51	8579.86585	4.41989	0.08775	5.86682	0.0863	3.94E-04	1.81E-04	3.14E-06	2.40E-04	2.96E-06	8.2091E-04
520801.11	4258506.07	8568.50003	0.09188	0.09034	0.08911	0.09334	3.93E-04	3.76E-06	3.23E-06	3.65E-06	3.20E-06	4.0695E-04
520801.46	4258496.94	8564.78883	0.09179	0.09026	0.08901	0.09331	3.93E-04	3.76E-06	3.23E-06	3.64E-06	3.20E-06	4.0677E-04
519961.94	4258379.47	8562.15274	0.1769	1.32553	0.18298	1.24218	3.93E-04	7.24E-06	4.74E-05	7.49E-06	4.26E-05	4.9761E-04
519961.72	4258404.27	8557.80579	0.19238	1.31535	0.1996	1.23018	3.93E-04	7.88E-06	4.70E-05	8.17E-06	4.22E-05	4.9795E-04
520108.2	4257944.88	8540.73115	0.0896	11.32107	0.09032	13.32047	3.92E-04	3.67E-06	4.05E-04	3.70E-06	4.57E-04	1.2614E-03
520073.6	4259619.43	8531.6094	12.22302	0.08848	12.508	0.08591	3.91E-04	5.00E-04	3.16E-06	5.12E-04	2.95E-06	1.4101E-03
519841.9	4258718.8	8529.83704	0.20969	0.37372	0.21988	0.36474	3.91E-04	8.59E-06	1.34E-05	9.00E-06	1.25E-05	4.3481E-04
519961.26	4258429.66	8527.47625	0.21018	1.2967	0.21936	1.21071	3.91E-04	8.61E-06	4.64E-05	8.98E-06	4.16E-05	4.9676E-04
519959.56	4258458.05	8515.8988	0.23155	1.25234	0.24464	1.16925	3.91E-04	9.48E-06	4.48E-05	1.00E-05	4.01E-05	4.9513E-04
520033.96	4259599.5	8513.27595	6.27546	0.08736	9.75832	0.08579	3.91E-04	2.57E-04	3.12E-06	4.00E-04	2.95E-06	1.0531E-03
520804.59	4258479.31	8513.18824	0.0911	0.08958	0.0884	0.09272	3.91E-04	3.73E-06	3.20E-06	3.62E-06	3.18E-06	4.0431E-04
519800.21	4258805.95	8506.61892	0.19026	0.27384	0.19711	0.26817	3.90E-04	7.79E-06	8.08E-06	8.08E-06	9.21E-06	4.2514E-04
519985.37	4258205.66	8505.2372	0.11658	1.82032	0.11996	1.68085	3.90E-04	4.77E-06	6.51E-05	4.91E-06	5.77E-05	5.2270E-04
520806.47	4258542.11	8500.1315	0.09084	0.08878	0.0883	0.09157	3.90E-04	3.72E-06	3.18E-06	3.62E-06	3.14E-06	4.0362E-04
519909.77	4258589.78	8498.54102	0.25168	0.67563	0.27152	0.65171	3.90E-04	1.03E-05	2.42E-05	1.11E-05	2.24E-05	4.5786E-04
519991.95	4258182.97	8492.74386	0.11246	2.00103	0.11588	1.83563	3.90E-04	4.60E-06	7.16E-05	4.74E-06	6.30E-05	5.3357E-04
520049.82	4258043.79	8466.39703	0.0967	7.46664	0.10121	5.69014	3.88E-04	3.96E-06	2.67E-04	4.14E-06	1.95E-04	8.5894E-04
520063.7	4259619.45	8453.44406	15.30187	0.08754	21.59285	0.08532	3.88E-04	6.27E-04	3.13E-06	8.84E-04	2.93E-06	1.9045E-03
520059.67	4258023.82	8453.28413	0.09503	11.7595	0.09879	7.78925	3.88E-04	3.89E-06	4.21E-04	4.04E-06	2.67E-04	1.0838E-03
520002.83	4258148.52	8445.72991	0.10702	2.37794	0.11107	2.15133	3.87E-04	4.38E-06	8.51E-05	4.55E-06	7.39E-05	5.5532E-04
520024.06	4259599.51	8429.9877	4.50212	0.08655	6.03702	0.08512	3.87E-04	1.84E-04	3.10E-06	2.47E-04	2.92E-06	8.2429E-04
520098.38	4257954.85	8429.70678	0.08972	16.99525	0.09085	17.89593	3.87E-04	3.67E-06	6.08E-04	3.72E-06	6.14E-04	1.6164E-03
519919.69	4258570.34	8423.22993	0.25631	0.75176	0.27599	0.72115	3.86E-04	1.05E-05	2.69E-05	1.13E-05	2.48E-05	4.5988E-04
519939.52	4258531.47	8413.37607	0.26239	0.94297	0.28203	0.89516	3.86E-04	1.07E-05	3.37E-05	1.15E-05	3.07E-05	4.7274E-04
519986.13	4258195.36	8391.78156	0.11384	1.83219	0.11709	1.69148	3.85E-04	4.66E-06	6.55E-05	4.79E-06	5.81E-05	5.1806E-04
519929.61	4258550.9	8380.75071	0.25984	0.8394	0.27918	0.80155	3.84E-04	1.06E-05	3.00E-05	1.14E-05	2.75E-05	4.6410E-04
519835.46	4258727.38	8379.70208	0.20448	0.35756	0.21394	0.34922	3.84E-04	8.37E-06	1.28E-05	8.76E-06	1.20E-05	4.2635E-04
519949.4	4258502.33	8372.37702	0.25504	1.07563	0.27306	1.01368	3.84E-04	1.04E-05	3.85E-05	1.12E-05	3.48E-05	4.7901E-04
519992.7	4258172.68	8367.20354	0.1099	2.01927	0.11328	1.85054	3.84E-04	4.50E-06	7.22E-05	4.64E-06	6.35E-05	5.2877E-04
519877.12	4258646.05	8364.76888	0.228	0.4978	0.24248	0.48617	3.84E-04	9.34E-06	1.78E-05	9.93E-06	1.67E-05	4.3752E-04
520033.98	4259609.5	8364.72698	6.42369	0.08616	10.36254	0.08462	3.84E-04	2.63E-04	3.08E-06	4.20E-04	2.91E-06	1.0729E-03
520070.31	4259629.84	8350.57319	12.64934	0.08693	13.73692	0.08452	3.83E-04	5.18E-04	3.11E-06	5.62E-04	2.90E-06	1.4695E-03
519867.12	4258664.6	8348.60193	0.22158	0.45773	0.23426	0.44762	3.83E-04	9.07E-06	1.64E-05	9.59E-06	1.54E-05	4.3342E-04
519973.75	4258240.42	8348.25058	0.12277	1.54942	0.12646	1.4464	3.83E-04	5.03E-06	5.54E-05	5.18E-06	4.97E-05	4.9828E-04
519829.76	4258737.74	8345.33736	0.20125	0.343	0.21017	0.33515	3.83E-04	8.24E-06	1.23E-05	8.61E-06	1.15E-05	4.2349E-04
520808.02	4258488.31	8343.84675	0.09041	0.08877	0.08773	0.0918	3.83E-04	3.70E-06	3.18E-06	3.59E-06	3.15E-06	3.9642E-04
519965.74	4258283.67	8341.81323	0.13429	1.4027	0.13834	1.31575	3.83E-04	5.50E-06	5.02E-05	5.66E-06	4.52E-05	4.8931E-04
520108.23	4257934.88	8341.03208	0.0878	11.30504	0.08846	13.32766	3.83E-04	3.59E-06	4.04E-04	3.62E-06	4.58E-04	1.2518E-03
519814.56	4258768.65	8336.43542	0.19406	0.30658	0.2018	0.29994	3.82E-04	7.95E-06	1.10E-05	8.26E-06	1.03E-05	4.1993E-04
519966.96	4258273.18	8317.23167	0.13101	1.42308	0.13498	1.33445	3.82E-04	5.36E-06	5.09E-05	5.53E-06	4.58E-05	4.8918E-04
519857.12	4258683.15	8313.33045	0.21515	0.42278	0.22661	0.41327	3.81E-04	8.81E-06	1.51E-05	9.28E-06	1.42E-05	4.2880E-04
519958.39	4258388.1	8301.57092	0.1789	1.26814	0.18499	1.19031	3.81E-04	7.32E-06	4.54E-05	7.57E-06	4.09E-05	4.8198E-04
519958.46	4258363.67	8293.29343	0.16532	1.27523	0.17057	1.19846	3.80E-04	6.77E-06	4.56E-05	6.98E-06	4.11E-05	4.8099E-04
519793.42	4258813.64	8291.55989	0.18443	0.26353	0.19115	0.25822	3.80E-04	7.56E-06	9.43E-06	7.83E-06	8.86E-06	4.1408E-04
520024.08	4259609.51	8284.14679	4.57352	0.08537	6.21031	0.08397	3.80E-04	1.87E-04	3.05E-06	2.54E-04	2.88E-06	8.2753E-04
520049.85	4258033.79	8280.59908	0.09463	7.45115	0.099	5.67487	3.80E-04	3.87E-06	2.67E-04	4.05E-06	1.95E-04	8.4917E-04
519968.07	4258262.74	8277.73503	0.12781	1.44114	0.13167	1.35084	3.80E-04	5.23E-06	5.15E-05	5.39E-06	4.64E-05	4.8831E-04
519974.78	4258230.01	8277.19192	0.11987	1.57246	0.1234	1.46573	3.80E-04	4.91E-06	5.62E-05	5.05E-06	5.03E-05	4.9627E-04
520060.41	4259629.86	8274.43994	14.2798	0.086	25.60142	0.08393	3.80E-04	5.85E-04	3.08E-06	1.05E-03	2.88E-06	2.0185E-03
519958.12	4258413.02	8267.84038	0.1945	1.25573	0.2019	1.17667	3.79E-04	7.96E-06	4.49E-05	8.27E-06	4.04E-05	4.8085E-04
520059.7	4258013.82	8262.04532	0.093	11.73031	0.09665	7.73232	3.79E-04	3.81E-06	4.20E-04	3.96E-06	2.65E-04	1.0718E-03
520810.42	4258524.71	8257.98298	0.08997	0.0881	0.08738	0.09089	3.79E-04	3.68E-06	3.15E-06	3.58E-06	3.12E-06	3.9239E-04
519957.6	4258438.55	8252.09557	0.21251	1.23575	0.22243	1.15629	3.79E-04	8.70E-06	4.42E-05	9.11E-06	3.97E-05	4.8030E-04
519993.41	4258162.4	8239.99635	0.10742	2.03771	0.1108	1.86525	3.78E-04	4.40E-06	7.29E-05	4.54E-06	6.40E-05	5.2389E-04
519889.89	4258618.95	8235.40739	0.23443	0.5597	0.25066	0.54512	3.78E-04	9.60E-06	2.00E-05	1.03E-05	1.87E-05	4.3642E-04
520098.41	4257944.85	8234.79901	0.0879	16.98183	0.08897	17.9227	3.78E-04	3.60E-06	6.07E-04	3.64E-06	6.15E-04	1.6078E-03
519803.25	4258789.38	8230.10061	0.18775	0.28367	0.19473	0.27778	3.78E-04	7.69E-06	1.01E-05	7.97E-06	9.54E-06	4.1292E-04
519969.08	4258252.33	8225.20857	0.1247	1.45875	0.12845	1.36647	3.77E-04	5.11E-06	5.22E-05	5.26E-06	4.69E-05	4.8681E-04
519961.01	4258305.6	8221.48515	0.14033	1.33253	0.14438	1.24371	3.77E-04	5.75E-06	4.73E-05	5.91E-06	4.27E-05	4.7885E-04
520033.99	4259619.5	8220.1895	6.4907	0.085	10.75897	0.08349	3.77E-04	2.66E-04	3.04E-06	4.41E-04	2.87E-06	1.0893E-03
520810.77	4258515.58	8219.78912	0.08988	0.08813	0.08726	0.09095	3.77E-04	3.68E-06	3.15E-06	3.57E-06	3.12E-06	3.9064E-04
519962.16	4258295.14	8218.2439	0.13682	1.34204	0.1408	1.26124	3.77E-04	5.60E-06	4.80E-05	5.76E-06	4.33E-05	4.7971E-04
519959.73	4258316.12	8205.40008	0.14391	1.30057	0.14803	1.22383	3.76E-04	5.89E-06	4.65E-05	6.06E-06	4.20E-05	4.7694E-04
520070.33	4259639.84	8204.8411	12.85691	0.08573	13.08477	0.08338	3.76E-04	5.26E-04	3.07E-06	5.36E-04	2.86E-06	1.4445E-03
520811.11	4258506.45	8198.90697	0.0898	0.08809	0.08716	0.09096	3.76E-04	3.68E-06	3.15E-06	3.57E-06	3.12E-06	3.8967E-04
519923.33	4258746.35	8198.42087	0.19626	0.32873	0.20456	0.32142	3.76E-04	8.04E-06	1.18E-05	8.38E-06	1.10E-05	4.1533E-04
519975.74	4258219.63	8197.1414	0.11705	1.59166	0.12042	1.48204	3.76E-04	4.79E-06	5.69E-05	4.93E-06	5.09E-05	4.9360E-04
520811.45	4258497.32	8194.78395	0.08972	0.08801	0.08708	0.09093	3.76E-04	3.67E-06	3.15E-06	3.57E-06	3.12E-06	3.8947E-04
519850.88	4258602.21	8181.65504	0.20967	0.40393	0.22076	0.39458	3.75E-04	8.58E-06	1.44E-05	9.04E-06	1.35E-05	4.2098E-04
519949.36	4258492.63	8180.97518	0.2462	1.08384	0.26284	1.02119	3.75E-04	1.01E-05	3.88E-05	1.08E-05	3.51E-05	4.7000E-04
519899.81	4258599.52	8172.26441	0.23984	0.61622	0.25753	0.59761	3.75E-04	9.82E-06	2.20E-05	1.05E-05	2.05E-05	4.3785E-04
519958.3	4258326.69	8167.12555	0.14755	1.27765	0.15179	1.20282	3.75E-04	6.04E-06	4.57E-05	6.21E-06	4.13E-05	4.7394E-04
519952.73	4258474.64	8153.56106	0.23579	1.1422	0.25062	1.07252	3.74E-04	9.65E-06	4.09E-05	1.03E-05	3.68E-05	4.7166E-04
520108.26	4257924.88	8149.80056	0.08606	11.28447	0.08667	13.35796	3.74E-04	3.52E-06	4.04E-04	3.55E-06	4.59E-04	1.2432E-03
520024.09	4259619.51	8142.1185	4.62133	0.08423	6.37637	0.08284	3.74E-04	1.89E-04	3.01E-06	2.61E-04	2.84E-06	8.2969E-04
519807.83	4258776.44	8138.62067	0.18849	0.29434	0.19566	0.28816	3.73E-04	7.72E-06	1.05E-05	8.01E-06	9.89E-06	4.0953E-04
519939.48	4258521.77	8134.10583	0.25381	0.9512	0.27213	0.90258	3.73E-04	1.04E-05	3.40E-05	1.11E-05	3.10E-05	4.5972E-04
520060.43	4259639.86	8131.62282	13.87968	0.08485	23.71832	0.08282	3.73E-04	5.68E-04	3.03E-06	5.71E-04	2.84E-06	1.9184E-03
519983	4258186.67	8113.86371	0.11027	1.74587	0.1133	1.61567	3.72E-04	4.51E-06	6.24E-05	4.64E-06	5.55E-05	4.9932E-04
519994.07	4258152.14	8111.30278	0.10504	2.05493	0.10842	1.87871	3.72E-04	4.30E-06	7.35E-05	4.44E-06	6.45E-05	5.1887E-04
519976.62	4258209.27	8109.26556	0.11432	1.60981	0.11753	1.49711	3.72E-04	4.68E-06	5.76E-05	4.81E-06	5.14E-05	4.9051E-04
519956.71	4258337.34	8106.90069	0.15126	1.25289	0.15565	1.18009	3.72E-04	6.19E-06	4.48E-05	6.37E-06	4.05E-05	4.6982E-04
520049.88	4258023.79	8100.21619	0.09263	7.43587	0.09686	5.65535	3.72E-04	3.79E-06	2.66E-04	3.97E-06	1.94E-04	8.3950E-04
519909.73	4258580.08	8098.02581	0.24457	0.68274	0.26295	0.6581	3.72E-04	1.00E-05	2.44E-05	1.08E-05	2.26E-05	4.3932E-04
520059.73	4258003.82	8083.13495	0.09108	11.7036	0.09459	7.74149	3.71E-04	3.73E-06	4.19E-04	3.87E-06	2.66E-04	1.0628E-03
519844.57	4258701.11	8064.82291	0.20482	0.38622	0.21513	0.37741	3.70E-04	8.39E-06	1.38E-05	8.81E-06	1.30E-05	4.1396E-04
520070.34	4259649.84	8063.69044	12.27416	0.08458	12.35062	0.08228	3.70E-04	5.03E-04	3.03E-06	5.06E-04	2.82E-06	1.3840E-03
520030.71	4259629.91	8048.6814	5.86285	0.08356	9.18232	0.08212	3.69E-04	2.40E-04	2.99E-06	3.76E-04	2.82E-06	9.9108E-04
520098.45	4257934.85	8048.01104	0.08615	16.94831	0.08716	17.92595	3.69E-04	3.53E-06	6.06E-04	3.57E-06	6.15E-04	1.5980E-03
519954.95	4258372.2	8045.71418	0.167	1.22088	0.17221	1.14975	3.69E-04	6.84E-06	4.37E-05	7.05E-06	3.95E-05	4.6615E-04
519919.65	4258560.64	8038.41786	0.24843	0.75874	0.26635	0.72786	3.69E-04	1.02E-05	2.71E-05	1.09E-05	2.50E-05	4.4199E-04
519796.51	4258797.17	8034.27281	0.18239	0.27282	0.18885	0.2673	3.69E-04	7.47E-06	9.76E-06	7.73E-06	9.18E-06	4.0273E-04
519954.84	4258396.74	8031.60228	0.18081	1.21359	0.18695	1.14104	3.68E-04	7.40E-06	4.34E-05	7.65E-06	3.92E-05	4.6611E-04
519929.57	4258541.21	8023.32854	0.25123	0.84654	0.26917	0.80842	3.68E-04	1.03E-05	3.03E-05	1.10E-05	2.78E-05	4.4744E-04
519949.32	4258482.94	8016.58202	0.23757	1.09177	0.25292	1.02821	3.68E-04	9.73E-06	3.91E-05	1.04E-05	3.53E-05	4.6222E-04
519977.44	4258198.95	8015.20808	0.11169	1.62338	0.11474	1.50909	3.68E-04	4.57E-06	5.81E-05	4.70E-06	5.18E-05	4.8687E-04
519983.82	4258176.34	8007.46689	0.10781	1.76759	0.11077	1.63371	3.67E-04	4.41E-06	6.32E-05	4.54E-06	5.61E-05	4.9563E-04
519953.95	4258447.43	8006.95622	0.21481	1.17847	0.22567	1.1053	3.67E-04	8.80E-06	4.22E-05	9.24E-06	3.79E-05	4.6548E-04
519877.12	4258636.77	8003.58857	0.22294	0.50246	0.23739	0.49075	3.67E-04	9.13E-06	1.80E-05	9.72E-06	1.68E-05	4.2086E-04
519867.12	4258655.32	7994.92981	0.21679	0.46177	0.22959	0.45188	3.67E-04	8.88E-06	1.65E-05	9.40E-06	1.55E-05	4.1710E-04
520060.44	4259649.86	7992.87876	13.05629	0.08373	21.94417	0.08174	3.67E-04	5.35E-04	2.99E-06	8.98E-04	2.81E-06	1.8056E-03
519954.52	4258421.77	7991.54412	0.19657	1.19975	0.20437	1.12622	3.67E-04	8.05E-06	4.29E-05	8.37E-06	3.87E-05	4.6463E-04
519857.12	4258673.87	7973.62767	0.21071	0.42632	0.22204	0.41739	3.66E-04	8.63E-06	1.52E-05	9.09E-06	1.43E-05	4.1311E-04
520020.81	4259629.93	7972.99576	4.24324	0.08281	5.71165	0.08149	3.66E-04	1.74E-04	2.96E-06	2.34E-04	2.80E-06	7.7914E-04
520108.3	4257914.88	7968.49903	0.08439	11.25308	0.08494	13.39592	3.66E-04	3.46E-06	4.03E-04	3.48E-06	4.60E-04	1.2349E-03
519838.21	4258709.89	7946.3763	0.2001	0.3696	0.20963	0.36135	3.65E-04	8.19E-06	1.32E-05	8.58E-06	1.24E-05	4.0697E-04
520049.91	4258013.79	7927.9075	0.09071	7.41896	0.09481	5.64438	3.64E-04	3.71E-06	2.65E-04	3.88E-06	1.94E-04	8.3046E-04
520070.36	4259659.84	7926.21375	11.86413	0.08345	11.62687	0.08121	3.64E-04	4.86E-04	2.98E-06	4.76E-04	2.79E-06	1.3312E-03
520059.76	4257993.82	7912.71333	0.08923	11.66949	0.09261	7.75046	3.63E-04	3.65E-06	4.17E-04	3.79E-06	2.66E-04	1.0539E-03
520030.72	4259639.91	7912.45533	5.9885	0.08245	9.58054	0.08104	3.63E-04	2.45E-04	2.95E-06	3.92E-04	2.78E-06	1.0062E-03
519964.79	4258244.12	7906.64665	0.1202	1.37871	0.12364	1.29528	3.63E-04	4.92E-06	5.06E-05	4.93E-05	4.45E-05	4.6651E-04
519984.59	4258166.04	7897.80866	0.10543	1.78349	0.10832	1.64656	3.62E-04	4.32E-06	6.38E-05	4.44E-06	5.65E-05	4.9141E-04
519939.44	4258512.07	7883.60014	0.24539	0.95867	0.26234	0.90951	3.62E-04	1.00E-05	3.43E-05	1.07E-05	3.12E-05	4.4799E-04
520098.48	4257924.85	7867.78037	0.08447	16.91475	0.08541	17.93534	3.61E-04	3.46E-06	6.05E-04	3.50E-06	6.16E-04	1.5887E-03
520060.46	4259659.86	7857.18692	13.14081	0.08261	20.70183	0.08066	3.60E-04	5.38E-04	2.95E-06	8.48E-04	2.77E-06	1.7519E-03
519965.9	4258233.67	7857.09264	0.11744	1.39963	0.12079	1.31331	3.60E-04	4.81E-06	5.01E-05	4.95E-06	4.51E-05	4.6537E-04
519889.85	4258609.26	7856.80545	0.2286	0.56521	0.24442	0.5503	3.60E-04	9.36E-06	2.02E-05	1.00E-05	1.89E-05	4.1893E-04
519956.86	4258287.34	7849.49494	0.13118	1.25864	0.1347	1.18681	3.60E-04	5.37E-06	4.50E-05	5.52E-06	4.07E-05	4.5677E-04
519958.16	4258276.81	7844.80856	0.12809	1.27695	0.13157	1.20384	3.60E-04	5.24E-06	4.57E-05	5.39E-06	4.13E-05	4.5754E-04
519889.85	4258804.91	7843.97199	0.1772	0.26261	0.18317	0.25743	3.60E-04	7.26E-06	9.39E-06	7.50E-06	8.84E-06	3.9285E-04
520020.82	4259639.93	7839.19433	4.29381	0.08172	5.83053	0.08042	3.60E-04	1.76E-04	2.92E-06	2.39E-04	2.76E-06	7.7986E-04
519810.93	4258760	7833.77852	0.18588	0.30467	0.19304	0.29829	3.59E-04	7.61E-06	1.09E-05	7.90E-06	1.02E-05	3.9605E-04
519959.35	4258266.34	7825.49647	0.12507	1.29399	0.12852	1.21943	3.59E-04	5.12E-06	4.63E-05	5.26E-06	4.19E-05	4.5755E-04
519831.79	4258718.53	7819.44011	0.19532	0.35394	0.20415	0.34619	3.59E-04	8.00E-06	1.27E-05	8.36E-06	1.19E-05	3.9964E-04
519951.44	4258380.73	7803.98326	0.16871	1.17077	0.1739	1.10426	3.58E-04	6.91E-06	4.19E-05	7.12E-06	3.79E-05	4.5185E-04
519951.42	4258356.51	7801.20926	0.1565	1.17549	0.16101	1.10988	3.58E-04	6.41E-06	4.20E-05	6.59E-06	3.81E-05	4.5105E-04
520061.08	4257984.72	7796.95998	0.08786	12.57583	0.09107	8.08682	3.58E-04	3.60E-06	4.50E-04	3.73E-06	2.78E-04	1.0925E-03
519966.93	4258223.26	7796.65888	0.11475	1.41792	0.11798	1.32869	3.58E-04	4.70E-06	5.07E-05	4.83E-06	4.56E-05	4.6356E-04
519899.77	4258589.82	7793.46269	0.23338	0.62311	0.25044	0.60332	3.58E-04	9.56E-06	2.23E-05	1.03E-05	2.07E-05	4.2036E-04
520070.38	4259669.84	7792.58681	11.1891	0.08236	10.84525	0.08016	3.58E-04	4.58E-04	2.95E-06	4.44E-04	2.75E-06	1.2654E-03
519960.43	4258255.9	7792.53952	0.12213	1.31109	0.12553	1.23445	3.58E-04	5.00E-06	4.69E-05	5

520070.41	4259689.84	7535.60043	9.66126	0.08024	9.07552	0.07812	3.46E-04	3.96E-04	2.87E-06	3.72E-04	2.68E-06	1.1184E-03
520030.77	4259669.91	7525.25702	6.06188	0.07928	10.48165	0.07794	3.45E-04	2.48E-04	2.84E-06	4.29E-04	2.68E-06	1.0281E-03
520098.54	4257904.85	7523.51768	0.08125	16.84107	0.08209	17.7278	3.45E-04	3.33E-06	6.02E-04	3.36E-06	6.09E-04	1.5628E-03
519947.74	4258414	7506.52562	0.18441	1.11297	0.19106	1.04985	3.44E-04	7.55E-06	3.98E-05	7.82E-06	3.60E-05	4.3561E-04
519889.81	4258599.56	7504.24501	0.22283	0.57104	0.23829	0.55536	3.44E-04	9.12E-06	2.04E-05	9.76E-06	1.91E-05	4.0265E-04
520051.29	4257984.69	7500.62366	0.08581	7.75292	0.08947	5.82602	3.44E-04	3.51E-06	2.77E-04	3.66E-06	2.00E-04	8.2861E-04
519840.84	4258692.13	7500.25121	0.19542	0.38111	0.20537	0.37308	3.44E-04	8.00E-06	1.36E-05	8.41E-06	1.28E-05	3.8695E-04
519947.32	4258439.27	7498.61926	0.20054	1.09675	0.20978	1.03369	3.44E-04	8.21E-06	3.92E-05	8.59E-06	3.55E-05	4.3554E-04
519939.36	4258492.68	7490.50484	0.22961	0.97239	0.24409	0.92238	3.44E-04	9.40E-06	3.48E-05	9.99E-06	3.17E-05	4.2949E-04
519955.83	4258247.82	7488.42771	0.11769	1.23952	0.12078	1.17013	3.44E-04	4.82E-06	4.43E-05	4.95E-06	4.02E-05	4.3783E-04
520060.51	4259689.86	7472.35959	12.35362	0.07944	15.97227	0.07761	3.43E-04	5.06E-04	2.84E-06	6.54E-04	2.66E-06	1.5081E-03
519929.48	4258521.81	7472.04466	0.23573	0.86039	0.25149	0.82117	3.43E-04	9.65E-06	3.08E-05	1.03E-05	2.82E-05	4.2172E-04
519976.54	4258159.37	7468.49598	0.10127	1.59187	0.1038	1.47802	3.43E-04	4.15E-06	5.69E-05	4.25E-06	5.07E-05	4.5872E-04
520061.14	4257964.73	7465.92086	0.08439	12.53169	0.0874	7.96796	3.43E-04	3.46E-06	4.48E-04	3.58E-06	2.74E-04	1.0713E-03
519942.98	4258474.09	7460.44872	0.22066	1.02424	0.23374	0.96883	3.42E-04	9.03E-06	3.66E-05	9.57E-06	3.33E-05	4.3077E-04
520020.87	4259669.93	7458.42197	4.30148	0.0786	6.02906	0.07736	3.42E-04	1.76E-04	2.81E-06	2.47E-04	2.66E-06	7.7062E-04
519957.02	4258237.34	7455.10803	0.11505	1.25354	0.11809	1.18289	3.42E-04	4.71E-06	4.48E-05	4.84E-06	4.06E-05	4.3702E-04
520108.39	4257884.88	7452.15466	0.07968	11.1791	0.0801	13.45922	3.42E-04	3.26E-06	4.00E-04	3.28E-06	4.62E-04	1.2104E-03
519899.73	4258580.12	7447.23844	0.2271	0.62933	0.243	0.60876	3.42E-04	9.30E-06	2.25E-05	9.95E-06	2.09E-05	4.0433E-04
519958.12	4258226.9	7412.3993	0.11249	1.2724	0.11549	1.19867	3.40E-04	4.61E-06	4.55E-05	4.73E-06	4.12E-05	4.3606E-04
520070.43	4259699.84	7412.1206	8.76311	0.07921	8.11911	0.07714	3.40E-04	3.59E-04	2.83E-06	3.32E-04	2.65E-06	1.0368E-03
519786.08	4258796.19	7409.45156	0.17016	0.26143	0.17565	0.2564	3.40E-04	6.97E-06	9.35E-06	7.19E-06	8.80E-06	3.7224E-04
519834.51	4258700.97	7405.26362	0.1912	0.36503	0.20028	0.35754	3.40E-04	7.83E-06	1.31E-05	8.20E-06	1.23E-05	3.8110E-04
520030.79	4259679.91	7402.81775	6.02065	0.07827	10.63062	0.07696	3.40E-04	2.47E-04	2.80E-06	4.35E-04	2.64E-06	1.0268E-03
519909.65	4258560.68	7400.9787	0.23062	0.69562	0.24607	0.66997	3.40E-04	9.44E-06	2.49E-05	1.01E-05	2.30E-05	4.0694E-04
519949.36	4258280.45	7398.30495	0.1252	1.15315	0.12818	1.09189	3.39E-04	5.13E-06	4.12E-05	5.25E-06	3.75E-05	4.2853E-04
519919.57	4258541.25	7397.17552	0.2334	0.7713	0.24881	0.74008	3.39E-04	9.56E-06	2.76E-05	1.02E-05	2.54E-05	4.1211E-04
519950.63	4258269.94	7396.27518	0.12236	1.16845	0.12531	1.10609	3.39E-04	5.01E-06	4.18E-05	5.13E-06	3.80E-05	4.2923E-04
519965.1	4258194.05	7392.99394	0.10614	1.37479	0.10887	1.28937	3.39E-04	4.35E-06	4.92E-05	4.46E-06	4.43E-05	4.4142E-04
519947.98	4258291	7385.58057	0.12809	1.13611	0.13112	1.07611	3.39E-04	5.24E-06	4.06E-05	5.37E-06	3.69E-05	4.2703E-04
519951.78	4258259.47	7380.21868	0.11957	1.1828	0.12251	1.11917	3.39E-04	4.90E-06	4.23E-05	5.02E-06	3.84E-05	4.2923E-04
520098.57	4257894.85	7360.38047	0.07972	16.80408	0.08051	17.65778	3.38E-04	3.26E-06	6.01E-04	3.30E-06	6.06E-04	1.5515E-03
519959.13	4258216.49	7359.86411	0.10999	1.28683	0.11291	1.21096	3.38E-04	4.50E-06	4.60E-05	4.62E-06	4.16E-05	4.3438E-04
519944.48	4258373.4	7355.07039	0.1595	1.08467	0.16392	1.02734	3.37E-04	6.53E-06	3.88E-05	6.71E-06	3.53E-05	4.2475E-04
519807.29	4258751.35	7354.38277	0.1782	0.30238	0.18484	0.29631	3.37E-04	7.30E-06	1.08E-05	7.57E-06	1.02E-05	3.7326E-04
520060.53	4259699.86	7350.70615	11.03371	0.07844	13.78763	0.07663	3.37E-04	4.52E-04	2.81E-06	5.65E-04	2.63E-06	1.3590E-03
519867.12	4258636.77	7348.19059	0.20777	0.46984	0.22054	0.45997	3.37E-04	8.51E-06	1.68E-05	9.03E-06	1.58E-05	3.8725E-04
520051.32	4257974.69	7341.8536	0.08411	7.74161	0.08768	5.7963	3.37E-04	3.44E-06	2.77E-04	3.59E-06	1.99E-04	8.1976E-04
519944.17	4258349.89	7341.14922	0.14851	1.08414	0.15236	1.02808	3.37E-04	6.08E-06	3.88E-05	6.24E-06	3.53E-05	4.2319E-04
519939.32	4258482.98	7339.40504	0.22212	0.97896	0.23557	0.92837	3.37E-04	9.09E-06	3.50E-05	9.65E-06	3.19E-05	4.2235E-04
520020.89	4259679.93	7337.93586	4.26608	0.07761	6.00125	0.07639	3.37E-04	1.75E-04	2.78E-06	2.46E-04	2.62E-06	7.6244E-04
519857.12	4258655.32	7337.49849	0.20217	0.43335	0.21366	0.42495	3.37E-04	8.28E-06	1.55E-05	8.75E-06	1.46E-05	3.8375E-04
519966.06	4258183.67	7320.35955	0.10385	1.38871	0.10644	1.30093	3.36E-04	4.25E-06	4.97E-05	4.36E-06	4.47E-05	4.3879E-04
519847.12	4258673.87	7319.09416	0.19661	0.40136	0.20686	0.39375	3.36E-04	8.05E-06	1.44E-05	8.47E-06	1.35E-05	3.8018E-04
519944.42	4258397.79	7313.99113	0.17201	1.07845	0.17738	1.02	3.36E-04	7.04E-06	3.86E-05	7.26E-06	3.50E-05	4.2345E-04
520061.17	4257954.73	7310.8214	0.08276	12.51636	0.08567	7.92699	3.35E-04	3.39E-06	4.48E-04	3.51E-06	2.72E-04	1.0621E-03
519828.13	4258709.69	7300.58246	0.18686	0.34987	0.19522	0.34282	3.35E-04	7.65E-06	1.25E-05	7.99E-06	1.18E-05	3.7486E-04
519960.07	4258206.12	7299.85257	0.10757	1.29919	0.11038	1.22165	3.35E-04	4.40E-06	4.65E-05	4.52E-06	4.19E-05	4.3224E-04
519943.72	4258448.02	7295.5875	0.20244	1.04922	0.21248	0.99127	3.35E-04	8.29E-06	3.75E-05	8.70E-06	3.40E-05	4.2326E-04
520108.42	4257874.88	7294.95778	0.07823	11.14128	0.07859	13.46663	3.35E-04	3.20E-06	3.99E-04	3.22E-06	4.62E-04	1.2019E-03
520070.44	4259709.84	7291.81665	7.8666	0.07821	7.16082	0.07618	3.35E-04	3.22E-04	2.80E-06	2.93E-04	2.62E-06	9.5523E-04
519795.81	4258771.68	7286.06244	0.1725	0.28047	0.1784	0.275	3.34E-04	7.06E-06	1.00E-05	7.30E-06	9.44E-06	3.6811E-04
519945.11	4258302.18	7285.52685	0.13054	1.0999	0.13356	1.04325	3.34E-04	5.34E-06	3.93E-05	5.47E-06	3.58E-05	4.2022E-04
520030.81	4259689.91	7283.4377	5.95256	0.07728	10.62462	0.07599	3.34E-04	2.44E-04	2.76E-06	4.35E-04	2.61E-06	1.0183E-03
519944.18	4258422.63	7265.33986	0.18617	1.06677	0.19338	1.0079	3.33E-04	7.62E-06	3.82E-05	7.92E-06	3.46E-05	4.2162E-04
519822.21	4258719.55	7263.2403	0.18372	0.33605	0.19137	0.32941	3.33E-04	7.52E-06	1.20E-05	7.84E-06	1.13E-05	3.7191E-04
519929.44	4258512.11	7250.41231	0.22846	0.86679	0.24314	0.82706	3.33E-04	9.35E-06	3.10E-05	9.96E-06	2.84E-05	4.1134E-04
519943.8	4258312.7	7245.5484	0.13354	1.08136	0.13665	1.02675	3.32E-04	5.47E-06	3.87E-05	5.60E-06	3.52E-05	4.1740E-04
519966.95	4258173.32	7242.70025	0.10164	1.40442	0.10411	1.31378	3.32E-04	4.16E-06	5.02E-05	4.26E-06	4.51E-05	4.3604E-04
520060.54	4259709.86	7232.0975	9.57358	0.07745	11.39704	0.07568	3.32E-04	3.92E-04	2.77E-06	4.67E-04	2.60E-06	1.1958E-03
519979.85	4258609.3	7223.1348	0.21279	0.52594	0.22682	0.51317	3.31E-04	8.71E-06	1.88E-05	9.29E-06	1.76E-05	3.8581E-04
520020.91	4259689.93	7220.32485	4.23336	0.07662	5.89534	0.07543	3.31E-04	1.73E-04	2.74E-06	2.41E-04	2.59E-06	7.5130E-04
520098.6	4257884.85	7205.4782	0.07825	16.76329	0.07899	17.90194	3.31E-04	3.20E-06	6.00E-04	3.23E-06	6.15E-04	1.5512E-03
519800.59	4258759.26	7203.83546	0.17346	0.29053	0.17957	0.28486	3.30E-04	7.10E-06	1.04E-05	7.35E-06	9.78E-06	3.6512E-04
519942.36	4258323.29	7193.9934	0.13665	1.06376	0.13987	1.01069	3.30E-04	5.60E-06	3.80E-05	5.73E-06	3.47E-05	4.1412E-04
520051.35	4257964.69	7188.96235	0.08247	7.73221	0.08594	5.754	3.30E-04	3.38E-06	2.77E-04	3.52E-06	1.98E-04	8.1082E-04
519888.77	4258589.86	7179.15401	0.21716	0.57694	0.23205	0.56028	3.29E-04	8.89E-06	2.06E-05	9.50E-06	1.92E-05	3.8763E-04
520070.46	4259719.84	7174.61957	7.01039	0.07723	6.10521	0.07524	3.29E-04	2.87E-04	2.76E-06	2.50E-04	2.58E-06	8.7151E-04
520030.82	4259699.91	7167.03323	5.803	0.07632	10.28282	0.07505	3.29E-04	2.38E-04	2.73E-06	4.21E-04	2.58E-06	9.9274E-04
520061.2	4257944.73	7161.83804	0.08119	12.50865	0.08399	7.89996	3.29E-04	3.32E-06	4.47E-04	3.44E-06	2.71E-04	1.0540E-03
519967.78	4258162.99	7160.47962	0.09949	1.41739	0.10184	1.32414	3.29E-04	4.07E-06	5.07E-05	4.17E-06	4.55E-05	4.3291E-04
519815.84	4258728.3	7158.04355	0.17948	0.32266	0.18665	0.3163	3.28E-04	7.35E-06	1.15E-05	7.64E-06	1.09E-05	3.6579E-04
520108.45	4257864.88	7139.47084	0.0768	11.12303	0.07713	13.48321	3.28E-04	3.14E-06	3.98E-04	3.16E-06	4.63E-04	1.1946E-03
519789.12	4258779.6	7136.56743	0.16794	0.26993	0.1734	0.26478	3.27E-04	6.88E-06	9.66E-06	7.10E-06	9.09E-06	3.6013E-04
519899.69	4258570.42	7132.0117	0.2209	0.63516	0.2355	0.61399	3.27E-04	9.04E-06	2.27E-05	9.64E-06	2.11E-05	3.8969E-04
519941	4258381.84	7128.48	0.16095	1.04298	0.1654	0.98911	3.27E-04	6.59E-06	3.73E-05	6.77E-06	3.40E-05	4.1167E-04
519919.52	4258531.55	7128.30961	0.22634	0.77709	0.24082	0.74557	3.27E-04	9.27E-06	2.78E-05	9.86E-06	2.56E-05	3.9955E-04
519940.51	4258358.78	7126.60966	0.14992	1.04099	0.15371	0.98862	3.27E-04	6.14E-06	3.72E-05	6.29E-06	3.39E-05	4.1056E-04
519940.12	4258456.77	7117.77234	0.20417	1.00401	0.21488	0.95107	3.27E-04	8.36E-06	3.59E-05	8.80E-06	3.27E-05	4.1227E-04
520060.56	4259719.86	7116.51655	9.41125	0.07647	8.79644	0.07474	3.26E-04	3.85E-04	2.74E-06	3.60E-04	2.57E-06	1.0773E-03
519909.61	4258550.99	7106.01266	0.22393	0.70103	0.23817	0.67534	3.26E-04	9.17E-06	2.51E-05	9.75E-06	2.32E-05	3.9319E-04
520020.92	4259699.93	7105.73378	4.13191	0.07567	5.67516	0.07449	3.26E-04	1.69E-04	2.71E-06	2.32E-04	2.56E-06	7.3280E-04
519946.87	4258251.51	7089.2089	0.11519	1.11977	0.11782	1.06127	3.25E-04	4.72E-06	4.01E-05	4.82E-06	3.64E-05	4.1127E-04
519940.91	4258406.32	7078.23637	0.17362	1.03602	0.17933	0.98108	3.25E-04	7.11E-06	3.71E-05	7.34E-06	3.37E-05	4.0993E-04
519948.14	4258241	7071.80097	0.1127	1.13203	0.11533	1.07291	3.24E-04	4.61E-06	4.05E-05	4.72E-06	3.68E-05	4.1110E-04
520070.48	4259729.84	7060.3235	0.05315	0.07624	5.06903	0.0743	3.24E-04	2.48E-04	2.73E-06	2.08E-04	2.55E-06	7.8458E-04
519929.4	4258502.42	7057.31073	0.22143	0.87268	0.23503	0.8326	3.24E-04	9.07E-06	3.12E-05	9.62E-06	2.86E-05	4.0226E-04
520030.84	4259709.91	7053.6341	5.5637	0.07537	9.42302	0.07413	3.24E-04	2.28E-04	2.70E-06	3.86E-04	2.54E-06	9.4247E-04
520098.63	4257874.85	7052.88558	0.07682	16.73272	0.07751	17.80573	3.24E-04	3.15E-06	5.99E-04	3.17E-06	6.11E-04	1.5397E-03
519956.16	4258197.75	7052.29513	0.10416	1.23749	0.10677	1.16579	3.24E-04	4.26E-06	4.43E-05	4.37E-06	4.00E-05	4.1647E-04
519940.63	4258431.27	7049.6439	0.18794	1.02314	0.19587	0.96837	3.23E-04	7.70E-06	3.66E-05	8.02E-06	3.32E-05	4.0898E-04
519857.12	4258646.05	7047.08079	0.19814	0.43687	0.20964	0.42852	3.23E-04	8.11E-06	1.56E-05	8.58E-06	1.47E-05	3.7034E-04
520051.38	4257954.69	7044.25264	0.0809	7.72073	0.08427	5.72403	3.23E-04	3.31E-06	2.76E-04	3.45E-06	1.97E-04	8.0261E-04
519949.3	4258230.54	7043.99405	0.11027	1.14736	0.11291	1.08615	3.23E-04	4.51E-06	4.10E-05	4.62E-06	3.73E-05	4.1063E-04
519847.12	4258664.6	7031.70107	0.1928	0.40443	0.20313	0.39711	3.23E-04	7.89E-06	1.45E-05	8.32E-06	1.36E-05	3.6691E-04
520061.23	4257934.73	7022.27566	0.07969	12.49498	0.08238	7.88064	3.22E-04	3.26E-06	4.47E-04	3.37E-06	2.71E-04	1.0463E-03
519837.12	4258683.15	7011.43725	0.18749	0.37582	0.19676	0.36895	3.22E-04	7.68E-06	1.34E-05	8.06E-06	1.27E-05	3.6351E-04
519950.38	4258220.1	7007.04133	0.10788	1.16161	0.11052	1.09815	3.21E-04	4.42E-06	4.15E-05	4.53E-06	3.77E-05	4.0966E-04
520060.58	4259729.86	7003.96195	7.60776	0.07552	6.63057	0.07382	3.21E-04	3.11E-04	2.70E-06	2.71E-04	2.53E-06	9.0954E-04
520020.94	4259709.93	6994.13656	3.97908	0.07474	5.34059	0.07358	3.21E-04	1.63E-04	2.67E-06	2.19E-04	2.53E-06	7.0766E-04
519957.17	4258187.34	6993.89141	0.10196	1.24977	0.10446	1.17621	3.21E-04	4.17E-06	4.47E-05	4.28E-06	4.04E-05	4.1440E-04
519782.41	4258787.46	6989.80186	0.1635	0.25999	0.16855	0.25514	3.21E-04	6.69E-06	9.30E-06	6.90E-06	8.76E-06	3.5233E-04
519941.9	4258273.54	6989.53392	0.11966	1.06072	0.12216	1.00792	3.21E-04	4.90E-06	3.79E-05	5.00E-06	3.46E-05	4.0311E-04
519943.13	4258263.04	6988.77989	0.11703	1.07344	0.11951	1.01965	3.21E-04	4.79E-06	3.84E-05	4.89E-06	3.50E-05	4.0372E-04
520108.48	4257854.88	6988.40894	0.07542	11.11171	0.07571	13.5012	3.21E-04	3.09E-06	3.97E-04	3.10E-06	4.64E-04	1.1878E-03
519940.57	4258284.08	6977.16028	0.12234	1.04669	0.12489	0.9949	3.20E-04	5.01E-06	3.74E-05	5.11E-06	3.42E-05	4.0182E-04
519936.52	4258465.52	6968.46208	0.2057	0.96133	0.2169	0.91301	3.20E-04	8.42E-06	3.44E-05	8.88E-06	3.13E-05	4.0273E-04
519951.39	4258209.7	6962.04122	0.10556	1.17329	0.10816	1.10827	3.19E-04	4.32E-06	4.20E-05	4.43E-06	3.80E-05	4.0817E-04
519869.89	4258619.04	6955.69117	0.20335	0.48636	0.21606	0.47583	3.19E-04	8.33E-06	1.74E-05	8.85E-06	1.63E-05	3.7002E-04
519939.1	4258294.67	6949.12788	0.12504	1.03102	0.12766	0.98038	3.19E-04	5.12E-06	3.69E-05	5.23E-06	3.37E-05	3.9969E-04
520030.86	4259719.91	6943.07596	5.23477	0.07445	7.69295	0.07323	3.19E-04	2.14E-04	2.66E-06	3.15E-04	2.51E-06	8.5303E-04
519937.14	4258342.72	6933.04035	0.14107	1.00503	0.14433	0.9568	3.18E-04	5.78E-06	3.59E-05	5.91E-06	3.28E-05	3.9856E-04
519958.12	4258176.96	6930.01766	0.09983	1.26058	0.10221	1.18524	3.18E-04	4.09E-06	4.51E-05	4.18E-06	4.07E-05	4.1199E-04
519879.81	4258599.6	6920.93133	0.20772	0.53092	0.2214	0.51755	3.18E-04	8.50E-06	1.90E-05	9.07E-06	1.78E-05	3.7185E-04
519936.85	4258367.66	6908.22123	0.15133	1.00057	0.15508	0.95139	3.17E-04	6.20E-06	3.58E-05	6.35E-06	3.27E-05	3.9793E-04
520098.66	4257864.85	6906.06529	0.07543	16.70805	0.07608	17.80475	3.17E-04	3.09E-06	5.98E-04	3.12E-06	6.11E-04	1.5319E-03
520051.41	4257944.69	6904.34889	0.07938	7.71012	0.08265	5.69441	3.17E-04	3.25E-06	2.76E-04	3.38E-06	1.95E-04	7.9467E-04
519830.82	4258692.06	6903.48021	0.18282	0.36017	0.19176	0.35332	3.17E-04	7.49E-06	1.29E-05	7.85E-06	1.21E-05	3.5707E-04
519803.65	4258742.7	6902.42292	0.17102	0.2997	0.17717	0.29403	3.17E-04	7.00E-06	1.07E-05	7.25E-06	1.01E-05	3.5174E-04
519919.48	4258521.85	6896.436	0.21965	0.78275	0.23327	0.75082	3.16E-04	8.99E-06	2.80E-05	9.55E-06	2.58E-05	3.8871E-04
519929.36	4258492.72	6891.26245	0.21466	0.87826	0.22728	0.83788	3.16E-04	8.79E-06	3.14E-05	9.31E-06	2.88E-05	3.9443E-04
520020.96	4259719.93	6885.35314	3.77202	0.07384	4.8716	0.0727	3.16E-04	1.54E-04	2.64E-06	1.99E-04	2.50E-06	6.7493E-04
519889.73	4258580.16	6881.70142	0.21162	0.58216	0.22546	0.56492	3.16E-04	8.66E-06	2.08E-05	9.23E-06	1.94E-05	3.7383E-04
520061.27	4257924.73	6876.5578	0.07819	12.51659	0.08081	7.82316	3.15E-04	3.20E-06	4.48E-04	3.31E-06	2.69E-04	1.0383E-03
520109.07	4257845.4	6862.65779	0.07422	10.8825	0.07447	13.27905	3.15E-04	3.04E-06	3.89E-04	3.05E-06	4.56E-04	1.1661E-03
519959.01	4258166.61	6861.37852	0.09775	1.27097	0.10002	1.1937	3.15E-04	4.00E-06	4.55E-05	4.10E-06	4.10E-05	4.0933E-04
519936.58	4258305.7	6859.64722	0.12743	1.00253	0.13008	0.95456	3.15E-04	5.22E-06	3.59E-05	5.33E-06	3.28E-05	3.9388E-04
519937.4	4258414.86	6854.10334	0.17518	0.99536	0.1814	0.94396	3.14E-04	7.17E-06	3.56E-05	7.43E-06	3.24E-05	3.9706E-04
519937.08	4258439.9	6853.01603	0.18961	0.98139	0.19827	0.93084	3.14E-04	7.76E-06	3.51E-05	8.12E-06	3.20E-05	3.9734E-04
519932.92	4258474.27	6847.08039	0.20707	0.92151	0.21862	0.87712	3.14E-04	8.48E-06	3.30E-05	8.95E-06	3.01E-05	3.9463E-04
519859.65	4258560.73	6846.78683	0.21483	0.64028	0.22819	0.61891	3.14E-04	8.80E-06	2.29E-05	9.34E-06	2.12E-05	3.7641E-04
519792.08	4258762.84	6845.44117	0.16556	0.27833	0.17096	0.27316	3.14E-04	6.78E-06	9.96E-06	7.00E-06	9.38E-06	3.4717E-04
519909.57	4258541.29	6841.76415	0.21742	0.70612	0.23071	0.68036	3.14E-04	8.90E-06	2.53E-05	9.45E-06	2.34E-05	3.8085E-04
519899.65	4258591.47	6835.18141	0.69454	0.07355	5.81229	0.07234	3.14E-04	1.92E-04	2.63E-06	2.38E-04	2.48E-06	7.4889E-04
519824.46	4258700.84	6821.15903	0.17901	0.34547	0.18708	0.33912	3.13E-04	7.33E-06	1.24E-05	7.66E-06	1.16E-05	3.5193E-04
519935.2	4258316.25	6803.31048	0.13022	0.98557	0.13296	0.9395	3.12E-04	5.33E-06	3.53E-05	5.44E-06	3.23E-05	3.9040E-04
520030.97	4259729.93	6779.0976	3.50959	0.07296	4.24388	0.07183	3.11E-04	1.44E-04	2.61E-06	1.74E-04	2.47E-06	6.3355E-04
519818.44	4258710.45	6775.0508	0.17577	0.33203	0.18319	0.32595	3.11E-04	7.20E-06	1.19E-05	7.50E-06	1.12E-05	3.4859E-04
519857.12	4258636.77	6774.93955	0.19423	0.44035	0.2056	0.43199	3.11E-04	7.95E-06	1.58E-05	8.42E-06	1.48E-05	3.5777E-04
520051.45	4257934.69	6772.9714	0.07794	7.70002	0.08109	5.6744	3.11E-04	3.19E-06	2.75E-04	3.32E-06	1.95E-04	7.8747E-04
519796.98	4258750.66	6770.78106	0.16663	0.28816	0.1723	0.28281	3.11E-04	6.82E-06	1.03E-05	7.05E-06	9.71E-06	3.4452E-04
520098.69	4257854.85	6764.69323	0.0741	16.6903	0.0747	17.90184	3.10E-04	3.03E-06	5.97E-04	3.06E-06	6.15E-04	1.5280E-03
519847.12	4258655.32	6760.62979	0.18911	0.40751	0.19951	0.40034	3.10E-04	7.74E-06	1.46E-05	8.17E-06	1.37E-05	3.5440E-04
519929.32	4258483.02	6750.74658	0.20816	0.8837	0.21992	0.84298	3.10E-04	8.52E-06	3.16E-05	9.00E-06	2.89E-05	3.8779E-04
520061.3	4257914.73	6747.90029	0.0768	12.48265	0.07929	7.78197	3.10E-04	3.14E-06	4.46E-04	3.25E-06	2.67E-04	1.0296E-03
519837.12	4258673.87	6743.65715	0.18403	0.37851	0.19334	0.37204	3.09E-04	7.53E-06	1.35E-05	7.92E-06	1.28E-05	3.5115E-04
519933.52	4258351.5	6737.12968	0.14232	0.96742	0.14552	0.92209	3.09E-04	5.83E-06	3.46E-05	5.96E-06	3.17E-05	3.8713E-04
519947.21	4258201.44	6723.43418	0.1022	1.11549	0.10457	1.05584	3.08E-04	4.18E-06	3.99E-05	4.28E

519929.54	4258385.44	6468.69579	0.15406	0.92588	0.15807	0.88219	2.97E-04	6.31E-06	3.31E-05	6.47E-06	3.03E-05	3.7296E-04
519930.38	4258431.92	6456.49702	0.17815	0.91976	0.18567	0.87532	2.96E-04	7.29E-06	3.29E-05	7.60E-06	3.01E-05	3.7406E-04
519928.05	4258309.22	6456.39314	0.12435	0.91778	0.12669	0.8769	2.96E-04	5.09E-06	3.28E-05	5.19E-06	3.01E-05	3.6942E-04
520109.16	4257815.4	6446.81247	0.0704	10.87249	0.07059	13.21919	2.96E-04	2.88E-06	3.89E-04	2.89E-06	4.54E-04	1.1443E-03
519859.89	4258619.08	6437.83788	0.19035	0.45497	0.20162	0.4461	2.95E-04	7.79E-06	1.63E-05	8.26E-06	1.53E-05	3.4299E-04
519788.36	4258753.99	6427.32647	0.15901	0.27602	0.16407	0.27112	2.95E-04	6.51E-06	9.87E-06	6.72E-06	9.31E-06	3.2728E-04
519869.81	4258599.64	6413.80519	0.19428	0.49488	0.2064	0.48354	2.94E-04	7.95E-06	1.77E-05	8.45E-06	1.66E-05	3.4496E-04
519926.43	4258465.8	6410.55874	0.19373	0.86818	0.20373	0.82908	2.94E-04	7.93E-06	3.11E-05	8.34E-06	2.85E-05	3.6989E-04
519938.26	4258205.13	6408.20397	0.10027	1.01237	0.10229	0.96167	2.94E-04	4.11E-06	3.62E-05	4.19E-06	3.30E-05	3.7152E-04
519909.48	4258521.89	6392.7202	0.20527	0.7157	0.21709	0.68947	2.93E-04	8.40E-06	2.56E-05	8.89E-06	2.37E-05	3.5983E-04
519879.73	4258580.2	6386.59745	0.19782	0.54049	0.21004	0.52583	2.93E-04	8.10E-06	1.93E-05	8.60E-06	1.81E-05	3.4709E-04
519926.52	4258344.25	6385.20361	0.13537	0.90165	0.13807	0.86201	2.93E-04	5.54E-06	3.23E-05	5.65E-06	2.96E-05	3.6598E-04
520099.34	4257825.37	6383.98464	0.07045	16.22589	0.07092	17.80294	2.93E-04	2.88E-06	5.80E-04	2.90E-06	6.11E-04	1.4902E-03
519939.41	4258194.67	6376.04332	0.09827	1.02282	0.10031	0.97068	2.93E-04	4.02E-06	3.66E-05	4.11E-06	3.33E-05	3.7056E-04
520051.54	4257904.69	6375.94371	0.07374	7.67788	0.07667	5.49728	2.93E-04	3.02E-06	2.75E-04	3.14E-06	1.89E-04	7.6203E-04
519820.79	4258692	6374.99961	0.17151	0.34085	0.17958	0.33502	2.92E-04	7.02E-06	1.22E-05	7.35E-06	1.15E-05	3.3054E-04
519793.36	4258742.07	6363.03174	0.16022	0.28543	0.16552	0.28048	2.92E-04	6.56E-06	1.02E-05	6.78E-06	9.63E-06	3.2510E-04
519889.65	4258560.77	6360.81428	0.20075	0.59164	0.21241	0.57366	2.92E-04	8.22E-06	2.12E-05	8.70E-06	1.97E-05	3.4959E-04
519930.37	4258248.34	6360.26945	0.10806	0.93836	0.10984	0.8949	2.92E-04	4.42E-06	3.36E-05	4.50E-06	3.07E-05	3.6501E-04
519919.36	4258492.76	6359.25106	0.20109	0.79771	0.21211	0.76486	2.92E-04	8.23E-06	2.85E-05	8.68E-06	2.63E-05	3.6346E-04
519931.68	4258237.81	6358.54552	0.10588	0.95027	0.10767	0.90553	2.92E-04	4.34E-06	3.40E-05	4.41E-06	3.11E-05	3.6554E-04
519899.57	4258541.33	6351.19955	0.20312	0.64921	0.21464	0.6278	2.91E-04	8.32E-06	2.32E-05	8.79E-06	2.16E-05	3.5326E-04
519928.95	4258258.91	6350.60933	0.11025	0.92431	0.11204	0.88245	2.91E-04	4.51E-06	3.31E-05	4.59E-06	3.03E-05	3.6381E-04
520061.39	4257884.73	6348.45699	0.0727	12.51728	0.07501	7.53349	2.91E-04	2.98E-06	4.48E-04	3.07E-06	2.59E-04	1.0037E-03
519932.89	4258227.32	6346.47612	0.10373	0.95786	0.10553	0.91287	2.91E-04	4.25E-06	3.43E-05	4.32E-06	3.13E-05	3.6533E-04
519926.3	4258369.06	6339.5932	0.14481	0.89843	0.14803	0.8579	2.91E-04	5.93E-06	3.21E-05	6.06E-06	2.95E-05	3.6443E-04
519940.48	4258184.24	6337.14972	0.09631	1.03207	0.09834	0.97858	2.91E-04	3.94E-06	3.69E-05	4.03E-06	3.36E-05	3.6922E-04
519814.67	4258701.35	6331.80584	0.16853	0.32768	0.17574	0.32228	2.90E-04	6.90E-06	1.17E-05	7.20E-06	1.11E-05	3.2737E-04
519934.02	4258216.87	6326.86661	0.10164	0.96971	0.10349	0.92301	2.90E-04	4.16E-06	3.47E-05	4.24E-06	3.17E-05	3.6504E-04
520109.19	4257805.4	6320.84576	0.06922	10.86594	0.06937	13.30176	2.90E-04	2.83E-06	3.89E-04	2.84E-06	4.57E-04	1.1410E-03
519781.72	4258762.02	6314.98047	0.1551	0.26589	0.15975	0.26125	2.90E-04	6.35E-06	9.51E-06	6.54E-06	8.97E-06	3.2109E-04
519922.87	4258474.43	6312.0087	0.19472	0.83441	0.2049	0.79841	2.90E-04	7.97E-06	2.98E-05	8.39E-06	2.74E-05	3.6320E-04
519941.48	4258173.84	6292.4766	0.0944	1.04121	0.0964	0.98606	2.89E-04	3.87E-06	3.72E-05	3.95E-06	3.39E-05	3.6759E-04
519926.87	4258440.45	6288.57288	0.1795	0.88439	0.18757	0.84342	2.89E-04	7.35E-06	3.16E-05	7.68E-06	2.90E-05	3.6413E-04
519927.11	4258415.61	6280.25352	0.16654	0.89631	0.17251	0.85409	2.88E-04	6.82E-06	3.21E-05	7.06E-06	2.93E-05	3.6339E-04
519847.12	4258636.77	6268.8978	0.18204	0.41364	0.1923	0.40647	2.88E-04	7.45E-06	1.48E-05	7.87E-06	1.40E-05	3.3168E-04
519925.83	4258270.19	6259.78338	0.11198	0.895	0.11375	0.85575	2.87E-04	4.58E-06	3.20E-05	4.66E-06	2.94E-05	3.5782E-04
520099.37	4257815.37	6258.72695	0.06926	16.22535	0.06969	17.83727	2.87E-04	2.84E-06	5.80E-04	2.85E-06	6.12E-04	1.4856E-03
520051.57	4257894.69	6258.52668	0.07246	7.66659	0.0753	5.4807	2.87E-04	2.97E-06	2.74E-04	3.08E-06	1.88E-04	7.5556E-04
519808.35	4258710.24	6257.58902	0.16497	0.31504	0.17156	0.30987	2.87E-04	6.75E-06	1.13E-05	7.02E-06	1.06E-05	3.2277E-04
519925.89	4258394.32	6255.64156	0.15539	0.89121	0.15976	0.85005	2.87E-04	6.36E-06	3.19E-05	6.54E-06	2.92E-05	3.6096E-04
519837.12	4258655.32	6251.64521	0.17737	0.38393	0.18683	0.37777	2.87E-04	7.26E-06	1.37E-05	7.65E-06	1.30E-05	3.2843E-04
519924.46	4258280.74	6240.46558	0.11433	0.88497	0.11617	0.84639	2.86E-04	4.68E-06	3.17E-05	4.76E-06	2.91E-05	3.5645E-04
519827.12	4258673.87	6234.44855	0.17272	0.35755	0.18121	0.35202	2.86E-04	7.07E-06	1.28E-05	7.42E-06	1.21E-05	3.2539E-04
519923.06	4258328.41	6232.51941	0.12801	0.87227	0.13033	0.83513	2.86E-04	5.24E-06	3.12E-05	5.34E-06	2.87E-05	3.5638E-04
519919.32	4258483.06	6231.77005	0.19541	0.8023	0.2057	0.76917	2.86E-04	8.00E-06	2.87E-05	8.42E-06	2.64E-05	3.5743E-04
520061.42	4257874.73	6228.35784	0.07145	12.50541	0.07368	7.49474	2.86E-04	2.93E-06	4.47E-04	3.02E-06	2.57E-04	9.9629E-04
519900.44	4258512.2	6206.4964	0.19961	0.7021	0.21073	0.69366	2.85E-04	8.17E-06	2.58E-05	8.63E-06	2.38E-05	3.5112E-04
519922.97	4258291.34	6204.98188	0.11669	0.87439	0.11863	0.83638	2.85E-04	4.78E-06	3.13E-05	4.86E-06	2.87E-05	3.5430E-04
519775.06	4258770	6203.85644	0.15129	0.26532	0.15556	0.25191	2.85E-04	6.19E-06	9.17E-06	6.37E-06	8.65E-06	3.1500E-04
520109.23	4257795.4	6201.34808	0.0681	10.84914	0.0682	13.2989	2.85E-04	2.79E-06	3.88E-04	2.79E-06	4.57E-04	1.1347E-03
519922.95	4258352.94	6200.02403	0.13647	0.86999	0.13913	0.83257	2.84E-04	5.59E-06	3.11E-05	5.70E-06	2.86E-05	3.5543E-04
519859.85	4258609.38	6193.48644	0.18626	0.45865	0.19732	0.4495	2.84E-04	7.63E-06	1.64E-05	8.08E-06	1.54E-05	3.3169E-04
519802.96	4258717.25	6182.07643	0.16184	0.30497	0.16795	0.3	2.84E-04	6.63E-06	1.09E-05	6.88E-06	1.03E-05	3.1833E-04
519869.77	4258589.94	6172.34012	0.18982	0.4993	0.20148	0.48723	2.83E-04	7.77E-06	1.79E-05	8.25E-06	1.67E-05	3.3378E-04
519921.33	4258302	6152.27984	0.11904	0.86026	0.12103	0.82356	2.82E-04	4.87E-06	3.08E-05	4.96E-06	2.83E-05	3.5113E-04
519879.69	4258570.51	6149.92484	0.19295	0.54498	0.20426	0.52977	2.82E-04	7.90E-06	1.95E-05	8.36E-06	1.82E-05	3.3609E-04
519923.36	4258448.98	6143.09017	0.18072	0.85066	0.18919	0.81302	2.82E-04	7.40E-06	3.04E-05	7.75E-06	2.79E-05	3.5532E-04
520051.6	4257884.69	6140.59962	0.07121	7.65046	0.07397	5.4346	2.82E-04	2.92E-06	2.74E-04	3.03E-06	1.87E-04	7.4788E-04
519899.52	4258531.63	6140.45795	0.19765	0.65335	0.20856	0.63182	2.82E-04	8.09E-06	2.34E-05	8.54E-06	2.17E-05	3.4340E-04
520099.41	4257805.37	6137.702	0.06811	16.21707	0.0685	17.88632	2.82E-04	2.79E-06	5.80E-04	2.80E-06	6.14E-04	1.4813E-03
519922.68	4258377.85	6137.28598	0.14604	0.86655	0.14946	0.82809	2.82E-04	5.98E-06	3.10E-05	6.12E-06	2.84E-05	3.5309E-04
519889.61	4258551.07	6125.11874	0.19531	0.59543	0.20601	0.57751	2.81E-04	8.00E-06	2.13E-05	8.43E-06	1.98E-05	3.3856E-04
520061.45	4257864.73	6111.72111	0.07023	12.47987	0.07239	7.45351	2.80E-04	2.88E-06	4.44E-04	2.96E-06	2.56E-04	9.8851E-04
519929.31	4258208.83	6106.07691	0.09835	0.91936	0.09995	0.87662	2.80E-04	4.03E-06	3.29E-05	4.09E-06	3.01E-05	3.5123E-04
519923.64	4258424.05	6099.46161	0.16782	0.86341	0.17438	0.82414	2.80E-04	6.87E-06	3.09E-05	7.14E-06	2.83E-05	3.5302E-04
519930.53	4258198.34	6082.58285	0.09644	0.91271	0.09808	0.88392	2.79E-04	3.95E-06	3.32E-05	4.02E-06	3.03E-05	3.5055E-04
519796.37	4258725.4	6082.51532	0.15801	0.29338	0.16355	0.28867	2.79E-04	6.47E-06	1.05E-05	6.70E-06	9.91E-06	3.1262E-04
520109.26	4257785.4	6077.96375	0.06696	10.87062	0.06705	13.30878	2.79E-04	2.74E-06	3.89E-04	2.75E-06	4.57E-04	1.1301E-03
519919.52	4258337.01	6066.22065	0.12901	0.84283	0.13127	0.80772	2.78E-04	5.28E-06	3.01E-05	5.37E-06	2.77E-05	3.4684E-04
519931.66	4258187.88	6056.91333	0.09458	0.93733	0.09627	0.89218	2.78E-04	3.87E-06	3.35E-05	3.94E-06	3.06E-05	3.4985E-04
519922.23	4258403.21	6051.37079	0.15668	0.85799	0.16157	0.81936	2.78E-04	6.42E-06	3.07E-05	6.62E-06	2.81E-05	3.4947E-04
519922.87	4258241.44	6040.50316	0.1037	0.87068	0.10516	0.8317	2.77E-04	4.25E-06	3.11E-05	4.31E-06	2.86E-05	3.4537E-04
519924.15	4258230.93	6039.13421	0.10168	0.87755	0.10311	0.83848	2.77E-04	4.16E-06	3.14E-05	4.22E-06	2.88E-05	3.4563E-04
519909.4	4258502.5	6039.26254	0.1941	0.72435	0.20447	0.69756	2.77E-04	7.95E-06	2.59E-05	8.37E-06	2.39E-05	3.4325E-04
519784.64	4258745.14	6036.21288	0.15292	0.27329	0.15761	0.2688	2.77E-04	6.26E-06	9.78E-06	6.45E-06	9.23E-06	3.0865E-04
519921.49	4258252	6030.97077	0.10575	0.85573	0.10721	0.82055	2.77E-04	4.33E-06	3.07E-05	4.39E-06	2.82E-05	3.4426E-04
519925.33	4258220.45	6029.43099	0.09969	0.88582	0.10113	0.84588	2.77E-04	4.08E-06	3.17E-05	4.14E-06	2.90E-05	3.4557E-04
519837.12	4258646.05	6029.2572	0.17418	0.38664	0.18361	0.38049	2.77E-04	7.13E-06	1.38E-05	7.52E-06	1.31E-05	3.1815E-04
520051.63	4257874.69	6026.30812	0.06999	7.62966	0.07267	5.38786	2.76E-04	2.87E-06	2.73E-04	2.98E-06	1.85E-04	7.4019E-04
519919.85	4258457.51	6020.80372	0.18179	0.81863	0.19051	0.78405	2.76E-04	7.44E-06	2.93E-05	7.80E-06	2.69E-05	3.4766E-04
520099.44	4257795.37	6019.5978	0.06699	16.21919	0.06735	17.85708	2.76E-04	2.74E-06	5.80E-04	2.76E-06	6.13E-04	1.4749E-03
519932.72	4258177.46	6019.34744	0.09274	0.94332	0.09444	0.89709	2.76E-04	3.80E-06	3.37E-05	3.87E-06	3.08E-05	3.4486E-04
519919.37	4258361.63	6012.27523	0.13754	0.83982	0.14026	0.8044	2.76E-04	5.63E-06	3.00E-05	5.74E-06	2.76E-05	3.4486E-04
520172.84	4257692.52	6011.40844	0.06294	3.36277	0.06206	2.90458	2.76E-04	2.58E-06	1.20E-04	2.54E-06	9.97E-05	5.0091E-04
519827.12	4258664.6	6010.33995	0.1697	0.35994	0.1783	0.35456	2.76E-04	6.95E-06	1.29E-05	7.30E-06	1.22E-05	3.1504E-04
519919.99	4258262.61	5999.32658	0.10773	0.84301	0.10923	0.8075	2.75E-04	4.41E-06	3.02E-05	4.47E-06	2.77E-05	3.4200E-04
520061.48	4257854.73	5998.70329	0.06905	12.44024	0.07114	7.41443	2.75E-04	2.83E-06	4.45E-04	2.91E-06	2.55E-04	9.8046E-04
519817.12	4258683.15	5994.48074	0.16528	0.33617	0.17291	0.3312	2.75E-04	6.77E-06	1.20E-05	7.08E-06	1.14E-05	3.1226E-04
519789.75	4258734.47	5982.55073	0.15424	0.28242	0.15926	0.27794	2.74E-04	6.32E-06	1.01E-05	6.52E-06	9.54E-06	3.0695E-04
519849.89	4258619.12	5980.35301	0.17863	0.42661	0.18874	0.41908	2.74E-04	7.31E-06	1.53E-05	7.73E-06	1.44E-05	3.1906E-04
519859.81	4258599.68	5968.33217	0.18224	0.4624	0.19301	0.4528	2.74E-04	7.46E-06	1.65E-05	7.90E-06	1.55E-05	3.2126E-04
520109.29	4257775.4	5954.35152	0.06583	10.902	0.06592	12.95111	2.73E-04	2.70E-06	3.90E-04	2.70E-06	4.45E-04	1.1131E-03
519899.48	4258521.94	5950.21669	0.19241	0.65734	0.20274	0.63562	2.73E-04	7.88E-06	2.35E-05	8.30E-06	2.18E-05	3.3450E-04
519869.73	4258580.25	5950.03427	0.18542	0.50348	0.19638	0.49078	2.73E-04	7.59E-06	1.80E-05	8.04E-06	1.68E-05	3.2347E-04
519919.07	4258386.63	5938.90916	0.14722	0.83548	0.15097	0.79925	2.72E-04	6.03E-06	2.99E-05	6.18E-06	2.74E-05	3.4200E-04
519778.03	4258753.24	5938.20466	0.14928	0.26345	0.15359	0.25914	2.72E-04	6.11E-06	9.42E-06	6.29E-06	8.90E-06	3.0315E-04
519920.16	4258432.49	5936.40918	0.16902	0.8316	0.17605	0.79543	2.72E-04	6.92E-06	2.97E-05	7.21E-06	2.73E-05	3.4353E-04
519879.65	4258560.81	5932.04483	0.18818	0.5489	0.19858	0.53349	2.72E-04	7.70E-06	1.96E-05	8.13E-06	1.83E-05	3.2593E-04
519916.01	4258321.27	5926.95631	0.12223	0.81568	0.12418	0.78263	2.72E-04	5.00E-06	2.92E-05	5.08E-06	2.69E-05	3.3805E-04
519916.34	4258466.04	5921.05148	0.18271	0.78843	0.19159	0.7565	2.72E-04	7.48E-06	2.82E-05	7.84E-06	2.60E-05	3.4114E-04
520051.66	4257864.69	5918.74349	0.06883	7.60149	0.07143	5.36554	2.72E-04	2.82E-06	2.72E-04	2.92E-06	1.84E-04	7.3338E-04
519917.18	4258273.76	5917.48786	0.10942	0.8203	0.11094	0.7866	2.71E-04	4.48E-06	2.93E-05	4.54E-06	2.70E-05	3.3685E-04
519810.89	4258692.25	5916.15397	0.16147	0.32317	0.16882	0.31814	2.71E-04	6.61E-06	1.16E-05	6.91E-06	1.09E-05	3.0743E-04
519888.57	4258541.37	5913.69721	0.19017	0.59905	0.20018	0.58117	2.71E-04	7.79E-06	2.14E-05	8.20E-06	2.00E-05	3.2867E-04
520099.47	4257785.37	5904.31568	0.06589	16.22502	0.06622	17.71991	2.71E-04	2.70E-06	5.80E-04	2.71E-06	6.08E-04	1.4650E-03
519915.74	4258284.33	5898.93965	0.11172	0.81392	0.11333	0.78049	2.71E-04	4.57E-06	2.91E-05	4.64E-06	2.68E-05	3.3575E-04
519909.36	4258492.8	5894.34839	0.18884	0.72826	0.1985	0.70127	2.70E-04	7.73E-06	2.60E-05	8.13E-06	2.41E-05	3.3640E-04
519915.98	4258345.62	5892.75822	0.12996	0.81424	0.1322	0.78113	2.70E-04	5.32E-06	2.91E-05	5.41E-06	2.68E-05	3.3702E-04
520172.87	4257682.52	5888.27556	0.06192	3.40753	0.06109	2.736	2.70E-04	2.54E-06	1.22E-04	2.50E-06	9.39E-05	4.9099E-04
520060.13	4257845.25	5868.54183	0.06778	11.39669	0.06986	7.00797	2.69E-04	2.78E-06	4.08E-04	2.86E-06	2.41E-04	9.2311E-04
520163.05	4257692.49	5864.90075	0.06218	4.37655	0.06146	3.63197	2.69E-04	2.55E-06	1.57E-04	2.52E-06	1.25E-04	5.5536E-04
519804.61	4258701.21	5862.46581	0.15848	0.31091	0.165	0.30629	2.69E-04	6.49E-06	1.11E-05	6.76E-06	1.05E-05	3.0384E-04
519918.57	4258412.1	5859.73106	0.15793	0.82556	0.16334	0.78985	2.69E-04	6.47E-06	2.95E-05	6.69E-06	2.71E-05	3.3863E-04
519914.17	4258294.97	5851.67177	0.11392	0.80369	0.1156	0.77087	2.68E-04	4.66E-06	2.87E-05	4.73E-06	2.65E-05	3.3307E-04
520109.32	4257765.4	5846.53238	0.0648	10.93101	0.06485	13.28524	2.68E-04	2.65E-06	3.91E-04	2.66E-06	4.56E-04	1.1206E-03
519912.83	4258474.57	5841.56923	0.18339	0.75952	0.19234	0.73007	2.68E-04	7.51E-06	2.72E-05	7.88E-06	2.51E-05	3.3561E-04
519771.39	4258761.27	5841.19614	0.14573	0.25408	0.14966	0.24997	2.68E-04	5.97E-06	9.09E-06	6.13E-06	8.58E-06	2.9775E-04
519915.8	4258370.31	5826.47261	0.13862	0.8113	0.14152	0.77764	2.67E-04	5.68E-06	2.90E-05	5.79E-06	2.67E-05	3.3449E-04
519837.12	4258636.77	5822.66797	0.17106	0.38929	0.18035	0.38314	2.67E-04	7.00E-06	1.39E-05	7.38E-06	1.32E-05	3.0860E-04
519920.36	4258212.52	5816.32834	0.09644	0.8411	0.09766	0.80397	2.67E-04	3.95E-06	3.01E-05	4.00E-06	2.76E-05	3.3248E-04
520051.7	4257854.7	5813.08554	0.0677	7.57142	0.07021	5.33075	2.67E-04	2.77E-06	2.71E-04	2.87E-06	1.83E-04	7.2617E-04
519799.29	4258708.54	5806.0431	0.15573	0.30112	0.16171	0.29671	2.66E-04	6.38E-06	1.08E-05	6.62E-06	1.02E-05	3.0032E-04
519921.64	4258202	5804.22899	0.09463	0.84022	0.09589	0.81114	2.66E-04	3.87E-06	3.04E-05	3.93E-06	2.78E-05	3.3231E-04
519827.12	4258655.32	5801.31106	0.16677	0.36234	0.17541	0.35702	2.66E-04	6.83E-06	1.30E-05	7.18E-06	1.23E-05	3.0538E-04
519916.69	4258440.94	5793.48501	0.17013	0.80112	0.17749	0.768	2.66E-04	6.97E-06	2.87E-05	7.27E-06	2.64E-05	3.3505E-04
520099.5	4257775.37	5792.23342	0.06483	16.23586	0.06513	17.52899	2.66E-04	2.65E-06	5.81E-04	2.67E-06	6.02E-04	1.4536E-03
519922.84	4258191.52	5784.94191	0.09285	0.85652	0.09415	0.81746	2.66E-04	3.80E-06	3.05E-05	3.85E-06	2.81E-05	3.3176E-04
519817.12	4258673.87	5782.55004	0.16249	0.33827	0.17026	0.33353	2.65E-04	6.65E-06	1.21E-05	6.97E-06	1.15E-05	3.0247E-04
519899.44	4258512.24	5779.73895	0.18738	0.66117	0.19715	0.63919	2.65E-04	7.67E-06	2.36E-05	8.07E-06	2.19E-05	3.2650E-04
519909.32	4258483.1	5776.0431	0.18388	0.73229	0.19294	0.70502	2.65E-04	7.53E-06	2.62E-05	7.90E-06	2.42E-05	3.3082E-04
519912.5	4258329.8	5771.00602	0.12311	0.78905	0.125	0.75784	2.65E-04	5.04E-06	2.82E-05	5.12E-06	2.60E-05	3.2916E-04
519849.85	4258609.42	5769.93113	0.17499	0.42972	0.18487	0.42202	2.65E-04	7.16E-06	1.54E-05	7.57E-06	1.45E-05	3.0931E-04
519923.96	4258181.07	5763.12141	0.09112	0.86451	0.09248	0.82426	2.64E-04	3.73E-06	3.09E-05	3.79E-06	2.83E-05	3.3114E-04
520060.16	4257835.25	5762.08946	0.06667	11.34629	0.06868	6.9518	2.64E-04	2.73E-06	4.06E-04	2.81E-06	2.39E-04	9.1440E-04
519859.77	4258589.99	5758.54202	0.17824	0.46623	0.18863	0.456	2.64E-04	7.30E-06	1.67E-05	7.72E-06	1.57E-05	3.1154E-04
519915.46	4258395.41	5747.79105	0.14837	0.80575	0.15257	0.77174	2.64E-04	6.07E-06	2.88E-05	6.25E-06	2.65E-05	3.3133E-04
520163.08	4257682.49	5746.96348	0.06118	4.6188	0.0605	3.41863	2.64E-04	2.50E-06	1.65E-04	2.48E-06	1.17E-04	5.5121E-04
519915.4	4258234.54	5746.74097	0.09964	0.80835	0.1008	0.77367	2.64E-04	4.08E-06	2.89E-05	4.13E-06	2.66E-05	3.2733E-04
519916.65	4258224.04	5746.31655	0.09776	0.81421	0.09888	0.77919	2.64E-04	4.00E-06	2.91E-05	4.05E-06	2.68E-05	3.2755E-04
520109.35	4257755.4	5743.41427	0.06381	10.96995	0.06381	13.33335	2.63E-04	2.61E-06	3.92E-04	2.61E-06	4.58E-04	1.1188E-03
519869.69	4258570.55	5742.85232	0.18107	0.50732	0.19119	0.49418	2.63E-04	7.41E-06	1.81E-05	7.83E-06	1.70E-05	3.1382E-04
519914.06	4258245.08	5737.96596	0.10155	0.79924	0.10275	0.76557	2.63E-04	4.16E-06	2.86E-05	4.21E-06	2.63E-05	3.2648E-04
519879.61	4258551.11	5731.71636	0.18354	0.55239	0.19319	0.53697	2.63E-04	7.51E-06	1.98E-05	7.91E-06	1.84E-05	3.1658E-04
519889.52	4258531.68	5725.39543	0.18533	0.60255	0.19484	0.58462	2.63E-04	7.59E-06	2.16E-05	7.98E-06	2.01E-05	3.1986E-04
519912.44	4258354.23	5721.54258	0.13095	0.78775	0.13326	0.75618	2.62E-04	5.36E-06	2.82E-05	5.46E-06	2.60E-05	3.2745E-04
519792.73	4258716.75	5716.97495	0.15213	0.28986	0.15755	0.28564	2.62E-04	6.23E-06	1.04E-05	6.45E-06	9.81E-06	2.9514E-04
519912.61	4258255.67	5712.31185	0.10342	0.78621	0.10466	0.75424	2.62E-04	4.23E-06	2.81E-05	4.29E-06

520050.4	4257825.22	5490.44184	0.06434	7.04157	0.06671	4.95263	2.52E-04	2.63E-06	2.52E-04	2.73E-06	1.70E-04	6.7915E-04	
519899.36	4258492.84	5488.95467	0.17782	0.66805	0.18639	0.64563	2.52E-04	7.28E-06	2.39E-05	7.63E-06	2.22E-05	3.1280E-04	
519905.14	4258323.44	5486.45789	0.11775	0.73813	0.11932	0.71024	2.52E-04	4.82E-06	2.64E-05	4.89E-06	2.44E-05	3.1220E-04	
520099.59	4257745.37	5479.06295	0.06182	16.34475	0.06204	17.56877	2.51E-04	2.53E-06	5.83E-04	2.54E-06	6.03E-04	1.4442E-03	
519907.96	4258227.62	5476.53414	0.09583	0.75369	0.09676	0.72207	2.51E-04	3.92E-06	2.70E-05	3.96E-06	2.48E-05	3.1089E-04	
519906.65	4258238.15	5467.9205	0.09761	0.74568	0.09859	0.71509	2.51E-04	4.00E-06	2.67E-05	4.04E-06	2.45E-05	3.1011E-04	
519908.65	4258387.69	5460.97686	0.14068	0.75698	0.1443	0.72712	2.51E-04	5.76E-06	2.71E-05	5.91E-06	2.50E-05	3.1425E-04	
520060.25	4257805.25	5459.3937	0.06352	11.16845	0.06534	6.73218	2.50E-04	2.60E-06	3.99E-04	2.68E-06	2.31E-04	8.8634E-04	
519795.63	4258699.83	5459.23628	0.14995	0.29719	0.15596	0.2932	2.50E-04	6.14E-06	1.06E-05	6.39E-06	1.01E-05	2.8368E-04	
520170.95	4257642.88	5453.89353	0.05827	2.89536	0.0575	2.31914	2.50E-04	2.39E-06	1.04E-04	2.35E-06	7.96E-05	4.3814E-04	
520141.21	4257683.56	5452.50819	0.05962	11.84626	0.05918	6.82771	2.50E-04	2.44E-06	4.24E-04	2.42E-06	2.34E-04	9.1314E-04	
519905.25	4258248.72	5448.6237	0.09939	0.73499	0.1004	0.70589	2.50E-04	4.07E-06	2.63E-05	4.11E-06	2.42E-05	3.0868E-04	
519905.48	4258346.86	5444.62937	0.12478	0.73862	0.12671	0.71069	2.50E-04	5.11E-06	2.64E-05	5.19E-06	2.44E-05	3.1090E-04	
520131.41	4257694.33	5431.5384	0.05987	10.61099	0.0595	10.11863	2.49E-04	2.45E-06	3.80E-04	2.44E-06	3.47E-04	9.8100E-04	
520109.44	4257725.4	5430.28869	0.06087	11.5751	0.06083	13.75119	2.49E-04	2.49E-06	4.14E-04	2.49E-06	4.72E-04	1.1402E-03	
519902.8	4258474.7	5428.78609	0.17317	0.6952	0.18115	0.67071	2.49E-04	7.09E-06	2.49E-05	7.42E-06	2.30E-05	3.1146E-04	
519827.12	4258636.77	5427.08861	0.16113	0.36701	0.16955	0.36173	2.49E-04	6.60E-06	1.31E-05	6.94E-06	1.24E-05	2.8807E-04	
519903.72	4258259.33	5407.32299	0.10106	0.72252	0.10212	0.69482	2.48E-04	4.14E-06	2.58E-05	4.18E-06	2.39E-05	3.0609E-04	
519889.44	4258512.28	5406.55235	0.17644	0.60957	0.18513	0.59116	2.48E-04	7.22E-06	2.18E-05	7.58E-06	2.03E-05	3.0494E-04	
519817.12	4258655.32	5401.68744	0.15719	0.34249	0.16506	0.33791	2.48E-04	6.44E-06	1.23E-05	6.76E-06	1.16E-05	2.8486E-04	
520050.43	4257815.22	5394.57826	0.06332	6.99578	0.06563	4.88816	2.47E-04	2.59E-06	2.50E-04	2.69E-06	1.68E-04	6.7082E-04	
519907.6	4258438.76	5393.22521	0.16112	0.73734	0.16772	0.70963	2.47E-04	6.60E-06	2.64E-05	6.87E-06	2.44E-05	3.1163E-04	
519839.85	4258609.46	5391.60087	0.16478	0.40352	0.17369	0.39697	2.47E-04	6.75E-06	1.44E-05	7.11E-06	1.36E-05	2.8928E-04	
519908.23	4258412.97	5389.24585	0.15039	0.74848	0.15552	0.71958	2.47E-04	6.16E-06	2.68E-05	6.37E-06	2.47E-05	3.1125E-04	
519849.77	4258590.03	5388.73294	0.16776	0.43642	0.17709	0.42767	2.47E-04	6.87E-06	1.56E-05	7.25E-06	1.47E-05	2.9164E-04	
519789.09	4258708.1	5382.79455	0.14668	0.28618	0.15204	0.28245	2.47E-04	6.01E-06	1.02E-05	6.23E-06	9.70E-06	2.7912E-04	
520099.62	4257735.37	5381.43297	0.06088	16.44561	0.06107	17.75572	2.47E-04	2.49E-06	5.88E-04	2.50E-06	6.10E-04	1.4497E-03	
519899.32	4258483.15	5380.60232	0.17351	0.6717	0.18158	0.64894	2.47E-04	7.10E-06	2.40E-05	7.43E-06	2.23E-05	3.0770E-04	
519859.69	4258570.59	5380.39528	0.17038	0.47323	0.17942	0.46202	2.47E-04	6.98E-06	1.69E-05	7.35E-06	1.59E-05	2.9395E-04	
519807.12	4258673.87	5380.0187	0.15322	0.32049	0.16032	0.31641	2.47E-04	6.27E-06	1.15E-05	6.56E-06	1.09E-05	2.8199E-04	
519901.75	4258307.4	5379.89848	0.11194	0.71632	0.11327	0.6897	2.47E-04	4.58E-06	2.56E-05	4.64E-06	2.37E-05	3.0534E-04	
519878.52	4258531.72	5376.33212	0.17473	0.55848	0.18332	0.54315	2.47E-04	7.15E-06	2.00E-05	7.51E-06	1.86E-05	2.9994E-04	
519905.35	4258371.44	5376.26146	0.13286	0.73739	0.13564	0.70891	2.47E-04	5.44E-06	2.64E-05	5.55E-06	2.43E-05	3.0836E-04	
519869.61	4258551.15	5372.27507	0.17265	0.51372	0.18131	0.50042	2.46E-04	7.07E-06	1.84E-05	7.42E-06	1.72E-05	2.9652E-04	
520060.28	4257795.25	5364.17896	0.06253	11.09676	0.06429	6.64288	2.46E-04	2.56E-06	3.97E-04	2.63E-06	2.28E-04	8.7626E-04	
519902.07	4258270	5357.1414	0.10269	0.7099	0.10377	0.68331	2.46E-04	4.20E-06	2.54E-05	4.25E-06	2.35E-05	3.0308E-04	
520170.99	4257632.88	5354.13037	0.05741	2.76676	0.05666	2.19976	2.46E-04	2.35E-06	9.90E-05	2.32E-06	7.55E-05	4.2479E-04	
519777.19	4258727.45	5333.2605	0.14186	0.26709	0.1462	0.2635	2.45E-04	5.81E-06	9.55E-06	5.99E-06	9.05E-06	2.7507E-04	
520109.48	4257715.4	5328.55012	0.05992	12.08479	0.05987	13.99482	2.44E-04	2.45E-06	4.32E-04	2.44E-06	4.80E-04	1.1621E-03	
520161.17	4257642.85	5327.99353	0.0576	3.98627	0.05694	2.83425	2.44E-04	2.36E-06	1.43E-04	2.33E-06	9.73E-05	4.8901E-04	
520131.44	4257684.33	5327.58768	0.05893	14.70756	0.05858	10.42492	2.44E-04	2.41E-06	5.26E-04	2.40E-06	3.58E-04	1.1332E-03	
519901.48	4258332.33	5325.45035	0.11832	0.71344	0.12008	0.68723	2.44E-04	4.85E-06	2.55E-05	4.92E-06	2.36E-05	3.0320E-04	
519899.88	4258280.9	5316.40564	0.10469	0.70308	0.10582	0.67693	2.44E-04	4.29E-06	2.51E-05	4.33E-06	2.32E-05	3.0091E-04	
519782.52	4258716.28	5302.61057	0.14336	0.2758	0.14819	0.27222	2.43E-04	5.87E-06	9.86E-06	6.07E-06	9.35E-06	2.7442E-04	
520050.46	4257805.22	5300.87792	0.06233	6.94488	0.06457	4.81615	2.43E-04	2.55E-06	2.48E-04	2.64E-06	1.65E-04	6.6214E-04	
520121.62	4257694.29	5295.39672	0.05906	12.38549	0.0588	13.06101	2.43E-04	2.42E-06	4.43E-04	2.41E-06	4.48E-04	1.1392E-03	
519903.88	4258209.33	5287.07896	0.09106	0.72035	0.09176	0.69047	2.43E-04	3.73E-06	2.58E-05	3.76E-06	2.37E-05	2.9952E-04	
519905.07	4258396.38	5286.99712	0.14164	0.71102	0.1467	0.70323	2.43E-04	5.80E-06	2.61E-05	5.97E-06	2.41E-05	3.0461E-04	
520099.66	4257725.37	5285.43556	0.05995	16.61795	0.06012	17.73963	2.42E-04	2.45E-06	5.94E-04	2.46E-06	6.09E-04	1.4508E-03	
519905.2	4258198.8	5282.65749	0.08945	0.72597	0.09013	0.69535	2.42E-04	3.66E-06	2.60E-05	3.69E-06	2.39E-05	2.9955E-04	
519902.47	4258219.9	5281.51115	0.09268	0.71386	0.09342	0.68476	2.42E-04	3.79E-06	2.55E-05	3.82E-06	2.35E-05	2.9897E-04	
519901.97	4258355.39	5281.40031	0.12562	0.71535	0.12772	0.68878	2.42E-04	5.14E-06	2.56E-05	5.23E-06	2.36E-05	3.0191E-04	
519903.95	4258447.64	5279.8542	0.16198	0.71106	0.16875	0.68549	2.42E-04	6.63E-06	2.54E-05	6.91E-06	2.35E-05	3.0474E-04	
519906.43	4258188.31	5272.35569	0.08787	0.73118	0.08856	0.6998	2.42E-04	3.60E-06	2.62E-05	3.63E-06	2.40E-05	2.9929E-04	
520060.31	4257785.25	5271.55166	0.06156	11.01676	0.06327	6.54327	2.42E-04	2.52E-06	3.94E-04	2.59E-06	2.25E-04	8.6565E-04	
519770.63	4258735.67	5258.43585	0.13871	0.25774	0.14259	0.25427	2.41E-04	5.68E-06	9.22E-06	5.84E-06	8.73E-06	2.7071E-04	
519889.4	4258502.58	5257.38938	0.17198	0.6124	0.18014	0.59384	2.41E-04	7.04E-06	2.19E-05	7.38E-06	2.04E-05	2.9791E-04	
519904.62	4258421.76	5247.38309	0.15149	0.723	0.15703	0.69608	2.41E-04	6.20E-06	2.59E-05	6.43E-06	2.39E-05	3.0131E-04	
519898.13	4258316.2	5237.35146	0.11268	0.69375	0.11398	0.66857	2.40E-04	4.61E-06	2.48E-05	4.67E-06	2.30E-05	2.9733E-04	
520109.51	4257705.4	5236.34251	0.05904	12.97293	0.05896	14.90548	2.40E-04	2.42E-06	4.64E-04	2.41E-06	5.12E-04	1.2208E-03	
520161.2	4257632.85	5231.76963	0.05676	3.6372	0.05611	2.63495	2.40E-04	2.32E-06	1.30E-04	2.30E-06	9.05E-05	4.6520E-04	
519817.12	4258646.05	5231.69251	0.15462	0.34456	0.16242	0.34	2.40E-04	6.33E-06	1.23E-05	6.65E-06	1.17E-05	2.7700E-04	
519839.81	4258599.77	5219.38762	0.1615	0.40646	0.17025	0.39947	2.39E-04	6.61E-06	1.45E-05	6.97E-06	1.37E-05	2.8129E-04	
519899.28	4258231.21	5219.25772	0.09392	0.69757	0.09472	0.6694	2.39E-04	3.85E-06	2.50E-05	3.88E-06	2.30E-05	2.9511E-04	
519879.48	4258522.02	5218.84974	0.17053	0.56125	0.1787	0.54587	2.39E-04	6.98E-06	2.01E-05	7.32E-06	1.87E-05	2.9255E-04	
519849.73	4258580.33	5216.80181	0.1642	0.43963	0.17298	0.43035	2.39E-04	6.72E-06	1.57E-05	7.08E-06	1.48E-05	2.8364E-04	
519828.89	4258619.2	5214.18465	0.15845	0.37735	0.16672	0.37187	2.39E-04	6.49E-06	1.35E-05	6.83E-06	1.28E-05	2.7879E-04	
520050.49	4257795.22	5210.6365	0.06137	6.8861	0.06355	4.73976	2.39E-04	2.51E-06	2.46E-04	2.60E-06	1.63E-04	6.5320E-04	
519859.65	4258560.89	5209.82374	0.16655	0.47617	0.17487	0.46482	2.39E-04	6.82E-06	1.70E-05	7.16E-06	1.60E-05	2.8599E-04	
519901.81	4258380.04	5206.66578	0.13377	0.71334	0.13692	0.68657	2.39E-04	5.48E-06	2.55E-05	5.61E-06	2.36E-05	2.9904E-04	
519869.57	4258541.46	5206.19266	0.16864	0.51643	0.17679	0.50322	2.39E-04	6.90E-06	1.85E-05	7.24E-06	1.73E-05	2.8874E-04	
519807.12	4258664.6	5205.83624	0.1508	0.32236	0.15799	0.31836	2.39E-04	6.17E-06	1.15E-05	6.47E-06	1.09E-05	2.7394E-04	
519897.91	4258241.76	5202.42018	0.09559	0.68793	0.09642	0.66132	2.39E-04	3.91E-06	2.46E-05	3.95E-06	2.27E-05	2.9385E-04	
520121.65	4257684.29	5196.98659	0.05816	16.62935	0.0579	13.67336	2.38E-04	2.38E-06	5.95E-04	2.37E-06	4.69E-04	1.3074E-03	
520099.69	4257715.37	5192.78668	0.05906	16.93762	0.0592	17.94943	2.38E-04	2.42E-06	6.06E-04	2.42E-06	6.16E-04	1.4651E-03	
520149.08	4257643.96	5186.7296	0.05686	6.74462	0.05631	3.82387	2.38E-04	2.33E-06	2.41E-04	2.31E-06	1.31E-04	6.1511E-04	
519900.29	4258456.53	5186.21635	0.16266	0.68597	0.16953	0.66231	2.38E-04	6.66E-06	2.45E-05	6.94E-06	2.27E-05	2.9881E-04	
519797.12	4258683.15	5185.51777	0.14698	0.30242	0.15338	0.29873	2.38E-04	6.02E-06	1.08E-05	6.28E-06	1.03E-05	2.7127E-04	
519764.04	4258743.81	5183.19988	0.1356	0.24886	0.13908	0.2455	2.38E-04	5.55E-06	8.90E-06	5.69E-06	8.43E-06	2.6637E-04	
520060.34	4257775.25	5181.43474	0.06062	10.92579	0.06228	6.43073	2.38E-04	2.48E-06	3.91E-04	2.55E-06	2.21E-04	8.5432E-04	
519896.43	4258252.35	5172.4779	0.09725	0.67911	0.09812	0.65358	2.37E-04	3.98E-06	2.43E-05	4.02E-06	2.24E-05	2.9203E-04	
519897.82	4258341.21	5163.5989	0.11928	0.69013	0.12093	0.66526	2.37E-04	4.88E-06	2.47E-05	4.95E-06	2.28E-05	2.9426E-04	
520109.54	4257695.4	5143.64936	0.05816	14.65191	0.05807	15.99828	2.36E-04	2.38E-06	5.24E-04	2.38E-06	5.49E-04	1.3141E-03	
519894.71	4258300.26	5141.5642	0.10732	0.67375	0.10841	0.64951	2.36E-04	4.39E-06	2.41E-05	4.44E-06	2.23E-05	2.9112E-04	
519901.5	4258405.07	5132.13555	0.14265	0.70694	0.14716	0.68099	2.35E-04	5.84E-06	2.53E-05	6.03E-06	2.34E-05	2.9598E-04	
519898.46	4258363.92	5131.93006	0.12661	0.69488	0.12901	0.66924	2.35E-04	5.18E-06	2.49E-05	5.28E-06	2.30E-05	2.9374E-04	
519889.36	4258492.89	5126.46323	0.16774	0.61509	0.17537	0.59637	2.35E-04	6.87E-06	2.20E-05	7.18E-06	2.05E-05	2.9172E-04	
519894.84	4258263	5124.80306	0.0988	0.66776	0.09969	0.64342	2.35E-04	4.05E-06	2.39E-05	4.08E-06	2.21E-05	2.8922E-04	
520050.52	4257785.22	5123.30913	0.06044	6.81865	0.06256	4.65281	2.35E-04	2.47E-06	2.44E-04	2.56E-06	1.60E-04	6.4371E-04	
519896.63	4258465.41	5116.01031	0.16327	0.66249	0.17027	0.64043	2.35E-04	6.68E-06	2.37E-05	6.97E-06	2.20E-05	2.9405E-04	
519901	4258430.54	5112.65063	0.15235	0.69778	0.15815	0.67303	2.35E-04	6.24E-06	2.50E-05	6.48E-06	2.31E-05	2.9534E-04	
520099.72	4257705.37	5101.71724	0.05818	17.5361	0.0583	18.04929	2.34E-04	2.38E-06	6.27E-04	2.39E-06	6.20E-04	1.4857E-03	
520149.12	4257633.96	5095.83945	0.05604	5.26393	0.05549	3.38387	2.34E-04	2.29E-06	1.88E-04	2.27E-06	1.16E-04	5.4281E-04	
520060.38	4257765.25	5093.01715	0.05971	10.83271	0.06131	6.30497	2.34E-04	2.44E-06	3.87E-04	2.51E-06	2.16E-04	8.4254E-04	
519894.51	4258325.01	5090.75504	0.11341	0.67209	0.11472	0.64824	2.34E-04	4.64E-06	2.40E-05	4.70E-06	2.23E-05	2.8919E-04	
519893.11	4258273.7	5082.02602	0.10055	0.65994	0.10145	0.63634	2.33E-04	4.12E-06	2.36E-05	4.15E-06	2.18E-05	2.8688E-04	
519785.45	4258699.45	5075.2046	0.14149	0.28247	0.14693	0.27908	2.33E-04	5.79E-06	1.01E-05	6.02E-06	9.58E-06	2.6433E-04	
519817.12	4258636.77	5073.6588	0.15208	0.34659	0.15976	0.34203	2.33E-04	6.23E-06	1.24E-05	6.54E-06	1.17E-05	2.6968E-04	
519879.44	4258512.32	5073.0554	0.16648	0.56398	0.17427	0.54846	2.33E-04	6.82E-06	2.02E-05	7.14E-06	1.88E-05	2.8570E-04	
520139.3	4257643.93	5066.13413	0.05617	9.17068	0.05569	4.83437	2.32E-04	2.30E-06	3.28E-04	2.28E-06	1.66E-04	7.3100E-04	
519892.98	4258474.3	5061.46595	0.16365	0.63985	0.17074	0.61936	2.32E-04	6.70E-06	2.29E-05	6.99E-06	2.13E-05	2.9005E-04	
519839.77	4258590.07	5058.01824	0.15824	0.40943	0.16669	0.4019	2.32E-04	6.48E-06	1.46E-05	6.82E-06	1.38E-05	2.7380E-04	
519849.69	4258570.63	5055.58624	0.16067	0.44254	0.1688	0.43291	2.32E-04	6.58E-06	1.58E-05	6.91E-06	1.49E-05	2.7612E-04	
519829.85	4258609.51	5053.87735	0.15548	0.37972	0.1636	0.37409	2.32E-04	6.37E-06	1.36E-05	6.70E-06	1.28E-05	2.7135E-04	
520109.57	4257685.4	5051.24348	0.05729	18.11687	0.05719	16.14073	2.32E-04	2.35E-06	6.48E-04	2.34E-06	5.54E-04	1.4386E-03	
519869.53	4258531.76	5050.98463	0.16477	0.51894	0.1725	0.5058	2.32E-04	6.75E-06	1.86E-05	7.06E-06	1.74E-05	2.8147E-04	
519859.61	4258551.2	5050.06105	0.16282	0.47876	0.17055	0.46742	2.32E-04	6.67E-06	1.71E-05	6.98E-06	1.60E-05	2.7851E-04	
519896.37	4258202.44	5046.52187	0.08775	0.67106	0.08826	0.64371	2.32E-04	3.59E-06	2.40E-05	3.61E-06	2.21E-05	2.8483E-04	
519898.27	4258388.65	5045.23844	0.13467	0.69031	0.13824	0.66525	2.31E-04	5.51E-06	2.47E-05	5.66E-06	2.28E-05	2.9017E-04	
519807.12	4258655.32	5045.12689	0.14845	0.32421	0.15563	0.32026	2.31E-04	6.08E-06	1.16E-05	6.37E-06	1.10E-05	2.6650E-04	
519895	4258213	5044.96186	0.08929	0.66667	0.08985	0.63993	2.31E-04	3.66E-06	2.38E-05	3.68E-06	2.20E-05	2.8460E-04	
519897.66	4258191.92	5041.85514	0.08623	0.67543	0.08671	0.64737	2.31E-04	3.53E-06	2.42E-05	3.55E-06	2.22E-05	2.8478E-04	
520050.56	4257775.22	5038.20556	0.05953	6.7432	0.06159	4.55385	2.31E-04	2.44E-06	2.41E-04	2.52E-06	1.56E-04	6.3364E-04	
519893.52	4258223.6	5032.12637	0.0908	0.66181	0.09144	0.63541	2.31E-04	3.72E-06	2.37E-05	3.74E-06	2.18E-05	2.8381E-04	
519773.47	4258718.6	5023.96459	0.13689	0.26374	0.14118	0.26059	2.30E-04	5.60E-06	9.43E-06	5.78E-06	8.95E-06	2.6026E-04	
519797.12	4258673.87	5020.42155	0.14477	0.30406	0.15126	0.30053	2.30E-04	5.93E-06	1.09E-05	6.19E-06	1.03E-05	2.6364E-04	
519889.32	4258483.19	5015.82869	0.16376	0.6179	0.17093	0.599	2.30E-04	6.71E-06	2.21E-05	7.00E-06	2.06E-05	2.8649E-04	
520099.75	4257695.37	5013.91724	0.05733	18.73064	0.05742	18.30026	2.30E-04	2.35E-06	6.70E-04	2.35E-06	6.28E-04	1.5330E-03	
520060.41	4257755.25	5006.5467	0.05881	10.7165	0.06037	6.15462	2.30E-04	2.41E-06	3.83E-04	2.47E-06	2.11E-04	8.2918E-04	
519778.9	4258707.69	5005.64155	0.13847	0.2723	0.14328	0.26914	2.30E-04	5.67E-06	9.74E-06	5.87E-06	9.24E-06	2.6016E-04	
519891.12	4258308.98	5004.655	0.10795	0.65265	0.10901	0.62985	2.30E-04	4.42E-06	2.33E-05	4.46E-06	2.16E-05	2.8345E-04	
519897.39	4258439.32	4999.58673	0.15313	0.67401	0.1591	0.65114	2.29E-04	6.27E-06	2.41E-05	6.51E-06	2.24E-05	2.8862E-04	
519894.17	4258350.1	4998.92315	0.11998	0.66736	0.12181	0.64382	2.29E-04	4.91E-06	2.39E-05	4.99E-06	2.21E-05	2.8521E-04	
519897.92	4258413.76	4989.16585	0.14357	0.63352	0.14845	0.65945	2.29E-04	5.88E-06	2.44E-05	6.08E-06	2.26E-05	2.8794E-04	
520139.33	4257633.93	4978.67429	0.05537	6.42921	0.05489	4.0221	2.28E-04	2.27E-06	2.30E-04	2.25E-06	1.38E-04	6.0097E-04	
519890.59	4258234.79	4973.43861	0.09203	0.646	0.09271	0.6212	2.28E-04	3.77E-06	2.31E-05	3.80E-06	2.13E-05	2.8017E-04	
519894.95	4258372.45	4963.07302	0.1273	0.67179	0.13002	0.64796	2.28E-04	5.21E-06	2.40E-05	5.32E-06	2.22E-05	2.8451E-04	
519766.94	4258726.88	4956.53647	0.13393	0.25464	0.13775	0.25159	2.27E-04	5.48E-06	9.11E-06	5.64E-06	8.64E-06	2.5627E-04	
520129.53	4257644.69	4954.94196	0.05554	10.86743	0.05513	5.82343	2.27E-04	2.27E-06	3.89E-04	2.26E-06	2.00E-04	8.2049E-04	
520050.59	4257765.22	4954.64642	0.05865	6.65111	0.06065	4.43773	2.27E-04	2.40E-06	2.38E-04	2.48E-06	1.52E-04	6.2245E-04	
519889.16	4258245.37	4949.56427	0.0936	0.638	0.09431	0.61434	2.27E-04	3.83E-06	2.28E-05	3.86E-06	2.11E-05	2.7868E-04	
519890.89	4258333.81	4939.75483	0.1141	0.651	0.1155	0.6284	2.26E-04	4.67E-06	2.33E-05	4.73E-06	2.16E-05	2.8089E-04	
519879.4	4258502.62	4934.56208	0.16252	0.56645	0.16989	0.55077	2.26E-04	6.65E-06	2.03E-05	6.96E-06	1.89E-05	2.7917E-04	
520099.78	4257685.37	4927.36788	0.05649	21.40745	0.05656	17.37709	2.26E-04	2.31E-06	7.66E-04	2.32E-06	5.97E-04	1.5930E-03	
520060.44	4257745.25	4922.76009	0.05794	10.57235	0.05945	5.97246	2.26E-04	2.37E-06	3.78E-04	2.43E-06	2.05E-04	8.1385E-04	
519887.66	4258293.12	4918.49098	0.103	0.63567	0.10391	0.61312	2.26E-04	4.22E-06	2.27E-05	4.25E-06	2.10E-05	2.7791E-04	
519887.62	4258255.99	4909.9268	0.09513	0.62925	0.09586	0.60669	2.25E-04	3.90E-06	2.25E-05	3.92E-06	2.08E-05	2.7641E-04	
519839.73	4258580.37	4906.36282	0.15502	0.41215	0.16294	0.40417	2.25E-04	6.35E-06	1.47E-05	6.67E-06	1.39E-05	2.6673E-04	
519869.48	4258522.06	4905.52177	0.16099	0.52104	0.16832	0.50801	2.25E-04	6.59E-06	1.86E-05	6.89E-06	1.74E-05	2.7462E-04	
519849.65	4258560.94	4903.46845	0.15722	0.44501	0.16469	0.43528	2.25E-04	6.44E-06	1.59E-05	6.74E-06	1.49E-05	2.6900E-04	
519829.81	4258599.81	4902.88962	0.15252	0.38229	0.16048	0.37626	2.25E-04	6.24E-06	1.37E-05	6.57E-06	1.29E-05	2.6434E-04	
519893.78	4258448.1	4900.70855	0.15371	0.65113	0.15978	0.63002	2.25E-04	6.29E-06	2.33E-05	6.54E-06	2.16E-05	2.8259E-04	
519859.57	4258541.5	4899.50746	0.1592	0.4811	0.16648	0.46984	2.25E-04	6.52E-06	1.72E-05	6.82E-06	1.61E-05	2.7145E-04	
519807.12	4258646.05	4896.2286	0.14614	0.32603	0.15323	0.32209	2.25E-04	5.98E-06	1.17E-05	6.27E-06	1.11E-05	2.5961E-04	
519819.89	4258619.25	4891.11679	0.14969	0.35589	0.15724	0.35117	2.24E-04	6.13E-06	1.27E-05	6.44E-06	1.21E-05	2.6175E-04	
519894.73	4258397.25	4889.82136	0.13548	0.66768	0.13944	0.64452	2.24E-04	5.55E-06	2.39E-05	5.71E-06	2.21E-05	2.8160E-04	
519760.37	4258735.08	4888.82848	0.131	0.246	0.1344	0.

519879.32	4258483.23	4700.47527	0.15505	0.57095	0.16153	0.555	2.16E-04	6.35E-06	2.04E-05	6.61E-06	1.91E-05	2.6809E-04
520060.53	4257715.25	4681.49453	0.05544	9.83815	0.05683	5.07588	2.15E-04	2.27E-06	3.52E-04	2.33E-06	1.74E-04	7.4553E-04
519763.24	4258718.09	4680.8441	0.12947	0.25142	0.13326	0.24877	2.15E-04	5.30E-06	8.99E-06	5.46E-06	8.54E-06	2.4304E-04
519887.93	4258389.51	4674.44912	0.12901	0.63214	0.13253	0.61108	2.14E-04	5.28E-06	2.26E-05	5.43E-06	2.10E-05	2.6875E-04
519880.54	4258310.43	4663.87262	0.10417	0.59771	0.10506	0.57773	2.14E-04	4.27E-06	2.14E-05	4.30E-06	1.98E-05	2.6375E-04
519878.81	4258259.63	4661.41098	0.09306	0.585	0.09364	0.56476	2.14E-04	3.81E-06	2.09E-05	3.83E-06	1.94E-05	2.6181E-04
519887.2	4258439.83	4647.24839	0.14564	0.61857	0.15103	0.59958	2.13E-04	5.96E-06	2.21E-05	6.18E-06	2.06E-05	2.6806E-04
519869.4	4258502.67	4645.89149	0.15392	0.52577	0.16065	0.51239	2.13E-04	6.30E-06	1.88E-05	6.58E-06	1.76E-05	2.6242E-04
520050.71	4257725.22	4637.13174	0.0553	6.00652	0.05711	3.69932	2.13E-04	2.26E-06	2.15E-04	2.34E-06	1.27E-04	5.5919E-04
519883.65	4258351.41	4634.06165	0.11536	0.61074	0.11722	0.59048	2.13E-04	4.72E-06	2.18E-05	4.80E-06	2.03E-05	2.6424E-04
519887.65	4258414.47	4630.07672	0.13712	0.62657	0.14169	0.60654	2.12E-04	5.61E-06	2.24E-05	5.80E-06	2.08E-05	2.6707E-04
520107.69	4257635.77	4628.28664	0.05327	8.4976	0.05309	4.77496	2.12E-04	2.18E-06	3.04E-04	2.17E-06	1.64E-04	6.8457E-04
519839.65	4258560.98	4626.83009	0.1487	0.41698	0.15548	0.40853	2.12E-04	6.09E-06	1.47E-05	6.37E-06	1.40E-05	2.5366E-04
519829.73	4258580.41	4626.54466	0.14664	0.38739	0.15388	0.3804	2.12E-04	6.00E-06	1.39E-05	6.30E-06	1.31E-05	2.5148E-04
519859.48	4258522.1	4623.23369	0.15231	0.48519	0.15894	0.47403	2.12E-04	6.24E-06	1.74E-05	6.51E-06	1.63E-05	2.5848E-04
519849.57	4258541.54	4622.45572	0.15057	0.44926	0.15711	0.43962	2.12E-04	6.16E-06	1.61E-05	6.43E-06	1.51E-05	2.5583E-04
519880.14	4258199.16	4622.21412	0.08309	0.58416	0.0834	0.56104	2.12E-04	3.40E-06	2.09E-05	3.41E-06	1.93E-05	2.5903E-04
519784.63	4258673.69	4620.12954	0.13519	0.28526	0.14098	0.28229	2.12E-04	5.54E-06	1.02E-05	5.77E-06	9.69E-06	2.4316E-04
519756.7	4258726.35	4618.30897	0.12668	0.24302	0.13009	0.2404	2.12E-04	5.19E-06	8.69E-06	5.33E-06	8.25E-06	2.3993E-04
519819.81	4258539.85	4618.19252	0.14431	0.3602	0.15158	0.35498	2.12E-04	5.91E-06	1.29E-05	6.21E-06	1.22E-05	2.4906E-04
519878.73	4258209.72	4610.99204	0.08443	0.58003	0.0848	0.55762	2.12E-04	3.46E-06	2.07E-05	3.47E-06	1.91E-05	2.5836E-04
520060.56	4257705.25	4606.37598	0.05466	9.36872	0.05601	4.59109	2.11E-04	2.24E-06	3.35E-04	2.29E-06	1.58E-04	7.0859E-04
519809.89	4258619.29	4600.10303	0.14167	0.33622	0.14859	0.33212	2.11E-04	5.80E-06	1.20E-05	6.08E-06	1.14E-05	2.4636E-04
519797.12	4258646.05	4594.75738	0.13836	0.30895	0.14482	0.30551	2.11E-04	5.67E-06	1.11E-05	5.93E-06	1.05E-05	2.4393E-04
519877.23	4258220.33	4590.66411	0.08574	0.57676	0.08621	0.55457	2.11E-04	3.51E-06	2.06E-05	3.53E-06	1.90E-05	2.5732E-04
520097.87	4257645.74	4589.17209	0.05325	13.38336	0.05328	5.66338	2.11E-04	2.18E-06	4.79E-04	2.18E-06	1.94E-04	8.8804E-04
519880.35	4258335.16	4589.13129	0.1099	0.59645	0.11126	0.57675	2.11E-04	4.50E-06	2.13E-05	4.56E-06	1.98E-05	2.6073E-04
519876.77	4258295.33	4587.11759	0.09958	0.5811	0.1003	0.56139	2.10E-04	4.08E-06	2.08E-05	4.11E-06	1.93E-05	2.5869E-04
519883.62	4258448.52	4571.37316	0.14615	0.59916	0.15164	0.58139	2.10E-04	5.98E-06	2.14E-05	6.21E-06	2.00E-05	2.6331E-04
519875.62	4258230.98	4566.52265	0.08711	0.56853	0.08757	0.54773	2.10E-04	3.57E-06	2.03E-05	3.59E-06	1.88E-05	2.5580E-04
520050.74	4257715.22	4563.54471	0.05452	5.70967	0.05628	3.40611	2.09E-04	2.23E-06	2.04E-04	2.30E-06	1.17E-04	5.3507E-04
519883.2	4258376.76	4556.71447	0.12262	0.60989	0.12555	0.58984	2.09E-04	5.02E-06	2.18E-05	5.14E-06	2.02E-05	2.6128E-04
519778.17	4258682.15	4554.94664	0.13235	0.27498	0.13769	0.27221	2.09E-04	5.42E-06	9.84E-06	5.64E-06	9.35E-06	2.3921E-04
520107.72	4257625.77	4552.71353	0.05254	5.96601	0.05234	3.61165	2.09E-04	2.15E-06	2.13E-04	2.14E-06	1.24E-04	5.5055E-04
519884.42	4258398.05	4538.06093	0.12973	0.6126	0.13356	0.59314	2.08E-04	5.31E-06	2.19E-05	5.47E-06	2.04E-05	2.6125E-04
519876.98	4258319.08	4532.69976	0.10474	0.58049	0.10573	0.56144	2.08E-04	4.29E-06	2.08E-05	4.33E-06	1.93E-05	2.5661E-04
520060.59	4257695.25	4532.40613	0.05389	8.67277	0.0552	3.99918	2.08E-04	2.21E-06	3.10E-04	2.26E-06	1.37E-04	6.5991E-04
519869.36	4258492.97	4529.30533	0.15048	0.52773	0.15683	0.5142	2.08E-04	6.16E-06	1.89E-05	6.42E-06	1.77E-05	2.5691E-04
519884.11	4258423.07	4515.20061	0.13773	0.60076	0.14246	0.58827	2.07E-04	5.64E-06	2.17E-05	5.83E-06	2.02E-05	2.6052E-04
519873.22	4258241.96	4514.93519	0.08831	0.55911	0.08877	0.5392	2.07E-04	3.62E-06	2.00E-05	3.63E-06	1.85E-05	2.5290E-04
520097.9	4257635.74	4514.80896	0.05251	8.15428	0.05253	4.11655	2.07E-04	2.15E-06	2.92E-04	2.15E-06	1.41E-04	6.4442E-04
519873.42	4258279.22	4512.69717	0.09517	0.5637	0.09573	0.54466	2.07E-04	3.90E-06	2.02E-05	3.92E-06	1.87E-05	2.5371E-04
519880.05	4258457.2	4512.1099	0.14655	0.58064	0.15213	0.56399	2.07E-04	6.00E-06	2.08E-05	6.23E-06	1.94E-05	2.5937E-04
519880.02	4258360.21	4501.27199	0.11631	0.59477	0.11853	0.57546	2.07E-04	4.76E-06	2.13E-05	4.85E-06	1.98E-05	2.5716E-04
519829.69	4258570.72	4498.74189	0.14374	0.38968	0.15047	0.38237	2.06E-04	5.89E-06	1.39E-05	6.16E-06	1.31E-05	2.4551E-04
519859.44	4258512.41	4497.46069	0.14904	0.48715	0.15543	0.47592	2.06E-04	6.10E-06	1.74E-05	6.36E-06	1.63E-05	2.5256E-04
519839.61	4258551.28	4496.30002	0.14564	0.41886	0.15193	0.41045	2.06E-04	5.96E-06	1.50E-05	6.22E-06	1.41E-05	2.4754E-04
519819.77	4258590.15	4492.7195	0.14163	0.36249	0.14864	0.35681	2.06E-04	5.80E-06	1.30E-05	6.09E-06	1.22E-05	2.4322E-04
519849.53	4258531.84	4492.01431	0.1474	0.45115	0.15366	0.44155	2.06E-04	6.04E-06	1.61E-05	6.29E-06	1.52E-05	2.4971E-04
520050.77	4257705.22	4490.79654	0.05376	5.31856	0.05547	3.06676	2.06E-04	2.20E-06	1.90E-04	2.27E-06	1.05E-04	5.0602E-04
519771.67	4258690.5	4487.7496	0.12948	0.26527	0.13442	0.26262	2.06E-04	5.30E-06	9.49E-06	5.50E-06	9.02E-06	2.3520E-04
519809.85	4258609.59	4477.82481	0.13923	0.33805	0.14603	0.33381	2.05E-04	5.70E-06	1.21E-05	5.98E-06	1.15E-05	2.4067E-04
519766.03	4258700.91	4476.51688	0.12758	0.25692	0.13216	0.25423	2.05E-04	5.22E-06	9.19E-06	5.41E-06	8.73E-06	2.3393E-04
519871.67	4258252.59	4475.38355	0.08969	0.5525	0.09014	0.53337	2.05E-04	3.67E-06	1.98E-05	3.69E-06	1.83E-05	2.5076E-04
519797.12	4258636.77	4473.7978	0.13627	0.3105	0.14263	0.30707	2.05E-04	5.58E-06	1.11E-05	5.84E-06	1.05E-05	2.3832E-04
519876.47	4258465.89	4464.86384	0.14677	0.56265	0.15244	0.54713	2.05E-04	6.01E-06	2.01E-05	6.24E-06	1.88E-05	2.5600E-04
519873.09	4258304.29	4459.83184	0.10011	0.56327	0.10087	0.54473	2.05E-04	4.10E-06	2.01E-05	4.13E-06	1.87E-05	2.5169E-04
520060.63	4257685.25	4459.24021	0.05314	7.6374	0.05441	3.37605	2.05E-04	2.18E-06	2.73E-04	2.23E-06	1.16E-04	5.9807E-04
519787.36	4258656.36	4457.9352	0.13352	0.29196	0.13949	0.28891	2.05E-04	5.47E-06	1.04E-05	5.71E-06	9.92E-06	2.3606E-04
519876.76	4258343.88	4448.17379	0.11051	0.5789	0.11214	0.56021	2.04E-04	4.52E-06	2.07E-05	4.59E-06	1.92E-05	2.5313E-04
520097.93	4257625.74	4442.50073	0.0518	5.53467	0.0518	3.12906	2.04E-04	2.12E-06	1.98E-04	2.12E-06	1.07E-04	5.1345E-04
519872.9	4258474.58	4435.41964	0.14696	0.54565	0.15276	0.53112	2.03E-04	6.02E-06	1.95E-05	6.25E-06	1.82E-05	2.5351E-04
519759.55	4258709.31	4426.40771	0.12517	0.24824	0.12912	0.2458	2.03E-04	5.12E-06	8.88E-06	5.29E-06	8.44E-06	2.3080E-04
519871.37	4258202.78	4422.60091	0.08152	0.5447	0.0818	0.52368	2.03E-04	3.34E-06	1.95E-05	3.35E-06	1.80E-05	2.4705E-04
519869.32	4258483.27	4420.58663	0.14711	0.52945	0.15306	0.51583	2.03E-04	6.02E-06	1.89E-05	6.27E-06	1.77E-05	2.5174E-04
520050.81	4257695.22	4420.5163	0.05301	4.81166	0.05468	2.70871	2.03E-04	2.17E-06	1.72E-04	2.24E-06	9.30E-05	4.7231E-04
519880.57	4258431.68	4420.07131	0.1383	0.58817	0.14314	0.57095	2.03E-04	5.66E-06	2.10E-05	5.86E-06	1.96E-05	2.5495E-04
519880.91	4258406.58	4420.04466	0.13047	0.59461	0.13457	0.57642	2.03E-04	5.34E-06	2.13E-05	5.51E-06	1.98E-05	2.5469E-04
519879.54	4258385.65	4416.96941	0.12338	0.59131	0.12668	0.57265	2.03E-04	5.05E-06	2.12E-05	5.19E-06	1.97E-05	2.5369E-04
519869.91	4258213.37	4405.85927	0.08277	0.54202	0.08312	0.52132	2.02E-04	3.39E-06	1.94E-05	3.40E-06	1.79E-05	2.4621E-04
519873.42	4258327.74	4402.23871	0.10533	0.56431	0.10651	0.54611	2.02E-04	4.31E-06	2.02E-05	4.36E-06	1.87E-05	2.4957E-04
519869.76	4258288.1	4402.16979	0.09573	0.54947	0.09632	0.53099	2.02E-04	3.92E-06	1.97E-05	3.94E-06	1.82E-05	2.4771E-04
519780.97	4258664.98	4395.85791	0.13084	0.28134	0.13647	0.27853	2.02E-04	5.36E-06	1.01E-05	5.59E-06	9.56E-06	2.3224E-04
519868.35	4258224	4381.77522	0.08404	0.53669	0.08441	0.51678	2.01E-04	3.44E-06	1.92E-05	3.46E-06	1.77E-05	2.4486E-04
519859.4	4258502.71	4379.62971	0.14586	0.48898	0.15197	0.47762	2.01E-04	5.97E-06	1.75E-05	6.22E-06	1.64E-05	2.4701E-04
519829.65	4258561.02	4375.67471	0.1409	0.39145	0.14706	0.3841	2.01E-04	5.77E-06	1.40E-05	6.02E-06	1.32E-05	2.3973E-04
519819.73	4258580.46	4373.37667	0.13896	0.36472	0.14559	0.35859	2.01E-04	5.69E-06	1.30E-05	5.96E-06	1.23E-05	2.3765E-04
519753.03	4258717.62	4372.10832	0.12265	0.23995	0.12608	0.23767	2.01E-04	5.02E-06	8.58E-06	5.16E-06	8.16E-06	2.2751E-04
519839.57	4258541.58	4371.23129	0.14266	0.42059	0.1486	0.41223	2.01E-04	5.84E-06	1.50E-05	6.08E-06	1.42E-05	2.4167E-04
519849.48	4258522.15	4367.81373	0.14529	0.4529	0.15036	0.4433	2.00E-04	5.91E-06	1.62E-05	6.16E-06	1.52E-05	2.4387E-04
519876.4	4258369.02	4366.61948	0.11709	0.57792	0.11969	0.55963	2.00E-04	4.79E-06	2.07E-05	4.90E-06	1.92E-05	2.4991E-04
519809.81	4258599.89	4360.87578	0.13678	0.34007	0.14346	0.33547	2.00E-04	5.60E-06	1.22E-05	5.87E-06	1.15E-05	2.3522E-04
520050.84	4257685.22	4349.84048	0.05227	4.20248	0.05391	2.36895	2.00E-04	2.14E-06	1.50E-04	2.21E-06	8.13E-05	4.3555E-04
519866.67	4258234.68	4349.36172	0.08531	0.52975	0.08567	0.51086	2.00E-04	3.49E-06	1.89E-05	3.51E-06	1.75E-05	2.4303E-04
519877.03	4258440.28	4339.01346	0.13874	0.57027	0.14365	0.55422	1.99E-04	5.68E-06	2.04E-05	5.88E-06	1.90E-05	2.5005E-04
519799.89	4258619.33	4337.55388	0.13431	0.31813	0.14066	0.31453	1.99E-04	5.50E-06	1.14E-05	5.76E-06	1.08E-05	2.3243E-04
519774.53	4258673.49	4333.35922	0.12817	0.27128	0.13341	0.26869	1.99E-04	5.25E-06	9.70E-06	5.46E-06	9.22E-06	2.2844E-04
519869.4	4258313.25	4330.59221	0.10065	0.54689	0.10153	0.52929	1.99E-04	4.12E-06	1.96E-05	4.16E-06	1.82E-05	2.4469E-04
519866.37	4258272.08	4327.69683	0.09158	0.53172	0.092	0.51401	1.99E-04	3.75E-06	1.90E-05	3.77E-06	1.76E-05	2.4273E-04
519873.17	4258352.61	4310.33549	0.11113	0.56216	0.11308	0.54454	1.98E-04	4.55E-06	2.01E-05	4.63E-06	1.87E-05	2.4573E-04
519877.4	4258415.11	4309.45263	0.13108	0.57689	0.13535	0.55999	1.98E-04	5.37E-06	2.06E-05	5.54E-06	1.92E-05	2.4848E-04
519854.54	4258245.55	4299.24466	0.08649	0.52182	0.08683	0.5037	1.97E-04	3.54E-06	1.87E-05	3.56E-06	1.73E-05	2.4029E-04
519866.11	4258296.99	4287.76717	0.09628	0.53466	0.09693	0.51695	1.97E-04	3.94E-06	1.91E-05	3.97E-06	1.77E-05	2.4150E-04
519875.89	4258394.53	4285.18656	0.12404	0.57291	0.12761	0.55571	1.97E-04	5.08E-06	2.05E-05	5.22E-06	1.91E-05	2.4647E-04
519873.49	4258448.89	4273.04409	0.13905	0.55309	0.14403	0.53811	1.96E-04	5.69E-06	1.98E-05	5.90E-06	1.85E-05	2.4589E-04
519869.86	4258336.39	4272.47501	0.10594	0.54882	0.10737	0.5315	1.96E-04	4.34E-06	1.96E-05	4.40E-06	1.82E-05	2.4262E-04
519768.05	4258681.91	4270.88926	0.12551	0.26176	0.13036	0.25934	1.96E-04	5.14E-06	9.36E-06	5.34E-06	8.90E-06	2.2468E-04
519859.36	4258493.01	4265.19398	0.1427	0.49053	0.14849	0.47906	1.96E-04	5.84E-06	1.75E-05	6.08E-06	1.64E-05	2.4159E-04
519819.69	4258576.76	4258.494	0.13632	0.36675	0.14248	0.36031	1.95E-04	5.58E-06	1.31E-05	5.83E-06	1.24E-05	2.3227E-04
519829.61	4258551.32	4257.12037	0.13811	0.39315	0.14385	0.38579	1.95E-04	5.65E-06	1.41E-05	5.89E-06	1.32E-05	2.3416E-04
519783.67	4258647.59	4253.65179	0.1292	0.28776	0.1349	0.28486	1.95E-04	5.29E-06	1.03E-05	5.52E-06	9.78E-06	2.2603E-04
519762.31	4258692.06	4252.44885	0.12366	0.21548	0.12814	0.25112	1.95E-04	5.06E-06	9.07E-06	5.25E-06	8.62E-06	2.2309E-04
519839.53	4258531.88	4250.95863	0.13978	0.42221	0.14547	0.41389	1.95E-04	5.72E-06	1.51E-05	5.96E-06	1.42E-05	2.3602E-04
519849.44	4258512.45	4249.97586	0.14137	0.45458	0.1472	0.44492	1.95E-04	5.79E-06	1.63E-05	6.03E-06	1.53E-05	2.3833E-04
519808.77	4258590.2	4249.80862	0.13433	0.34211	0.14079	0.33707	1.95E-04	5.50E-06	1.22E-05	5.76E-06	1.16E-05	2.3005E-04
519872.78	4258377.82	4232.6129	0.11776	0.5608	0.12069	0.5438	1.94E-04	4.82E-06	2.01E-05	4.94E-06	1.87E-05	2.4268E-04
519862.61	4258206.39	4231.48306	0.07995	0.51019	0.08022	0.49069	1.94E-04	3.27E-06	1.82E-05	3.28E-06	1.68E-05	2.3578E-04
519799.85	4258609.63	4229.7244	0.13208	0.3198	0.13834	0.31603	1.94E-04	5.41E-06	1.14E-05	5.66E-06	1.08E-05	2.2741E-04
519862.75	4258280.89	4229.12653	0.09212	0.51891	0.09258	0.50173	1.94E-04	3.77E-06	1.86E-05	3.79E-06	1.72E-05	2.3737E-04
519869.94	4258457.5	4226.96904	0.13935	0.53696	0.14443	0.52284	1.94E-04	5.71E-06	1.92E-05	5.91E-06	1.79E-05	2.4270E-04
519873.89	4258423.64	4213.08971	0.13157	0.55964	0.13594	0.54395	1.93E-04	5.39E-06	2.00E-05	5.57E-06	1.87E-05	2.4293E-04
519861.09	4258217.01	4209.08557	0.08114	0.50604	0.08143	0.48719	1.93E-04	3.32E-06	1.81E-05	3.33E-06	1.67E-05	2.3459E-04
519865.71	4258322.22	4204.03236	0.10124	0.53186	0.10233	0.51505	1.93E-04	4.15E-06	1.90E-05	4.19E-06	1.77E-05	2.3791E-04
519789.93	4258629.07	4201.72767	0.1296	0.30002	0.13547	0.29691	1.93E-04	5.31E-06	1.07E-05	5.55E-06	1.02E-05	2.2454E-04
519777.3	4258656.27	4194.4603	0.12671	0.27741	0.13211	0.27473	1.92E-04	5.19E-06	9.92E-06	5.41E-06	9.43E-06	2.2239E-04
519866.4	4258466.1	4192.84573	0.13952	0.52133	0.14471	0.50811	1.92E-04	5.71E-06	1.86E-05	5.93E-06	1.74E-05	2.4009E-04
519755.85	4258700.52	4192.53086	0.12102	0.245	0.12517	0.24264	1.92E-04	4.96E-06	8.76E-06	5.12E-06	8.33E-06	2.1952E-04
519869.58	4258361.33	4185.12565	0.11191	0.54746	0.11421	0.53081	1.92E-04	4.58E-06	1.96E-05	4.68E-06	1.82E-05	2.3907E-04
519859.47	4258227.66	4179.35828	0.08234	0.50015	0.08262	0.4822	1.92E-04	3.37E-06	1.79E-05	3.38E-06	1.66E-05	2.3294E-04
519862.86	4258474.71	4172.75118	0.13964	0.50641	0.14497	0.49401	1.91E-04	5.72E-06	1.81E-05	5.94E-06	1.70E-05	2.3816E-04
519862.45	4258305.88	4170.11171	0.09681	0.51964	0.09758	0.50283	1.91E-04	3.96E-06	1.86E-05	4.00E-06	1.73E-05	2.3513E-04
520058.71	4257645.62	4167.69053	0.05016	2.92811	0.05137	1.74632	1.91E-04	2.05E-06	1.05E-04	2.10E-06	6.00E-05	3.6005E-04
519872.23	4258403.42	4165.24308	0.12465	0.55552	0.12843	0.53963	1.91E-04	5.10E-06	1.99E-05	5.26E-06	1.85E-05	2.3985E-04
519859.32	4258483.31	4162.74439	0.13967	0.49201	0.14512	0.48042	1.91E-04	5.72E-06	1.76E-05	5.94E-06	1.65E-05	2.3673E-04
519850.32	4258264.95	4156.97802	0.08821	0.50238	0.08853	0.48569	1.91E-04	3.61E-06	1.80E-05	3.62E-06	1.67E-05	2.3259E-04
519819.65	4258561.06	4147.169	0.13373	0.36836	0.13939	0.36184	1.90E-04	5.48E-06	1.32E-05	5.71E-06	1.24E-05	2.2704E-04
519749.35	4258708.89	4144.56978	0.11874	0.23692	0.12233	0.23479	1.90E-04	4.86E-06	8.47E-06	5.01E-06	8.06E-06	2.1655E-04
519866.3	4258345.05	4143.27527	0.10653	0.53369	0.10827	0.51733	1.90E-04	4.36E-06	1.91E-05	4.43E-06	1.78E-05	2.3573E-04
519809.73	4258580.5	4142.8893	0.1319	0.34406	0.138	0.33862	1.90E-04	5.40E-06	1.23E-05	5.65E-06	1.16E-05	2.2505E-04
519857.72	4258238.37	4141.53687	0.08353	0.49453	0.08379	0.47723	1.90E-04	3.42E-06	1.77E-05	3.43E-06	1.64E-05	2.3093E-04
519849.4	4258502.75	4138.78267	0.1385	0.45616	0.14412	0.44639	1.90E-04	5.67E-06	1.63E-05	5.90E-06	1.53E-05	2.3309E-04
519829.57	4258541.62	4136.67272	0.13523	0.3943	0.14058	0.38708	1.90E-04	5.54E-06	1.41E-05	5.76E-06	1.33E-05	2.2847E-04
519839.48	4258522.19	4135.42047	0.13699	0.4237	0.14249	0.41539	1.90E-04	5.61E-06	1.52E-05	5.83E-06	1.43E-05	2.3058E-04
519770.89	4258664.84	4134.97597	0.12421	0.2676	0.12929	0.26512	1.90E-04	5.09E-06	9.57E-06	5.29E-06	9.10E-06	2.1876E-04
519870.38	4258432.17	4130.97221	0.13198	0.54322	0.13642	0.52858	1.90E-04	5.40E-06	1.94E-05	5.59E-06	1.81E-05	2.3809E-04
519799.81	4258599.93	4127.00352	0.12984	0.32158	0.136	0.31748	1.89E-04	5.32E-06	1.15E-05	5.57E-06	1.09E-05	2.2263E-04
519859.12	4258289.71	4121.93993	0.09263	0.50647	0.09318	0.48976	1.89E-04	3.79E-06	1.81E-05	3.82E-06	1.68E-05	2.3164E-04
519869.16	4258386.62	4107.64485	0.1184	0.54456	0.12163	0.52876	1.88E-04	4.85E-06	1.95E-05	4.98E-06	1.82E-05	2.3591E-04
520058.74	4257635.62	4104.91196	0.0495	2.4012	0.05067	1.52317	1.88E-04	2.03E-06	8.59E-05	2.07E-06	5.23E-05	3.3061E-04
519788.89	4258619.37	4100.41114	0.12755	0.30143	0.13335	0.29826	1.88E-04	5.22E-06	1.08E-05	5.46E-06	1.02E-05	2.1982E-04
519862.02	4258331.18	4074.81257	0.10179	0.51689	0.10314	0.50095	1.87E-04	4.17E-06	1.85E-05	4.22E-06	1.72E-05	2.3102E-04
519764.44	4258673.31	4074.7917	0.12171	0.2583	0.12646	0.256	1.87E-04	4.98E-06	9.24E-06	5.18E-06	8.79E-06	2.1513E-04
520048.92	4257645.58	4070.74567	0.04937	2.12672	0.05093	1.39333	1.87E-04	2.02E-06	7.61E-05	2.09E-06	4.78E-05	3.1477E-04
519779.97	4258638.81	4070.21172	0.12509	0.28353	0.13049	0.28079	1.87E-04	5.12E-06	1.01E-05	5.34E-06	9.64E-06	2.1698E-04
519866.87	4258440.7	4063.36958	0.1323	0.52755	0.13681	0.51384	1.86E-04	5.42E-06	1.89E-05	5.60E-06	1.76E-05	2.3395E-04
519865.99	4258370.06	4060.51281	0.11256	0.53234	0.1152	0.51674	1.86E-04	4.61E-06	1.90E-05	4.72E-06	1.77E-05	2.3240E-04
519855.72	4258273.7	4059.13764	0.08866	0.48982	0.08901	0.47377	1.86E-04	3.63E-06	1.75E-05	3.64E-06	1.63E-05	2.2726E-04
519868.57	4258412.31	4058.66696	0.12517	0.53875	0.12909	0.52404	1.86E-04	5.12E-06	1.93E-05

519859.18	4258362.36	3898.80145	0.10772	0.50542	0.11009	0.49105	1.79E-04	4.41E-06	1.81E-05	4.51E-06	1.69E-05	2.2272E-04
519848.7	4258266.51	3890.18915	0.08516	0.46024	0.08542	0.44511	1.78E-04	3.49E-06	1.65E-05	3.50E-06	1.53E-05	2.1720E-04
519861.26	4258430.08	3889.53006	0.12596	0.50749	0.13004	0.49469	1.78E-04	5.16E-06	1.82E-05	5.32E-06	1.70E-05	2.2406E-04
519779.89	4258619.41	3884.80268	0.12132	0.28599	0.1266	0.28318	1.78E-04	4.97E-06	1.02E-05	5.18E-06	9.72E-06	2.0833E-04
519861.92	4258404.22	3881.35452	0.11937	0.51269	0.1229	0.4993	1.78E-04	4.89E-06	1.83E-05	5.03E-06	1.71E-05	2.2347E-04
519845.08	4258213.63	3871.03495	0.07689	0.44749	0.07706	0.43102	1.78E-04	3.15E-06	1.60E-05	3.16E-06	1.48E-05	2.1470E-04
519754.86	4258674.36	3864.59018	0.11622	0.24668	0.12054	0.24458	1.77E-04	4.76E-06	8.82E-06	4.94E-06	8.40E-06	2.0421E-04
519848.52	4258291.2	3862.82987	0.08966	0.46781	0.09025	0.45269	1.77E-04	3.67E-06	1.67E-05	3.70E-06	1.55E-05	2.1686E-04
519845.09	4258251.01	3852.12449	0.08216	0.45081	0.08235	0.43556	1.77E-04	3.36E-06	1.61E-05	3.37E-06	1.50E-05	2.1454E-04
519769.97	4258638.85	3851.2079	0.119	0.26954	0.1239	0.26708	1.77E-04	4.87E-06	9.64E-06	5.07E-06	9.17E-06	2.0544E-04
519809.61	4258551.41	3839.34812	0.1248	0.34855	0.12966	0.34269	1.76E-04	5.11E-06	1.25E-05	5.31E-06	1.18E-05	2.1079E-04
519799.69	4258570.84	3838.98827	0.12318	0.32661	0.12838	0.32147	1.76E-04	5.04E-06	1.17E-05	5.26E-06	1.10E-05	2.0914E-04
519843.45	4258224.29	3838.50622	0.07796	0.44222	0.0781	0.42652	1.76E-04	3.19E-06	1.58E-05	3.20E-06	1.46E-05	2.1395E-04
519819.53	4258531.97	3830.04031	0.12632	0.37224	0.1311	0.36581	1.76E-04	5.17E-06	1.33E-05	5.37E-06	1.26E-05	2.1213E-04
519858.81	4258387.51	3829.87012	0.11368	0.50306	0.11679	0.48958	1.76E-04	4.65E-06	1.80E-05	4.78E-06	1.68E-05	2.1994E-04
519857.6	4258438.96	3827.62517	0.12622	0.49288	0.13038	0.48089	1.76E-04	5.17E-06	1.76E-05	5.34E-06	1.65E-05	2.2025E-04
519789.77	4258590.28	3825.58183	0.1214	0.30613	0.12687	0.30205	1.76E-04	4.97E-06	1.09E-05	5.19E-06	1.04E-05	2.0700E-04
519854.64	4258349.11	3824.37037	0.1029	0.48877	0.10487	0.47473	1.75E-04	4.21E-06	1.75E-05	4.29E-06	1.63E-05	2.1774E-04
519839.36	4258493.09	3821.08391	0.12917	0.4278	0.13416	0.41918	1.75E-04	5.29E-06	1.53E-05	5.49E-06	1.44E-05	2.1578E-04
519820.44	4258512.53	3819.53858	0.12778	0.39855	0.1327	0.39123	1.75E-04	5.23E-06	1.43E-05	5.43E-06	1.34E-05	2.1305E-04
519748.46	4258682.95	3811.68278	0.11396	0.23856	0.11798	0.23657	1.75E-04	4.67E-06	8.53E-06	4.83E-06	8.12E-06	2.0102E-04
519845.12	4258275.2	3806.93919	0.0858	0.45191	0.08615	0.43724	1.75E-04	3.51E-06	1.62E-05	3.53E-06	1.50E-05	2.1287E-04
519851.48	4258332.54	3806.91152	0.09834	0.47848	0.09985	0.46424	1.75E-04	4.03E-06	1.71E-05	4.09E-06	1.59E-05	2.1582E-04
519779.85	4258609.72	3801.37457	0.11945	0.28726	0.12468	0.2843	1.74E-04	4.89E-06	1.03E-05	5.10E-06	9.76E-06	2.0443E-04
519763.61	4258647.54	3796.03309	0.11682	0.26024	0.12148	0.25792	1.74E-04	4.78E-06	9.31E-06	4.97E-06	8.85E-06	2.0207E-04
519858.29	4258413.02	3794.19963	0.11984	0.49854	0.12349	0.48594	1.74E-04	4.91E-06	1.78E-05	5.06E-06	1.67E-05	2.1855E-04
519855.61	4258371.01	3789.78736	0.10834	0.49268	0.11099	0.47911	1.74E-04	4.44E-06	1.76E-05	4.54E-06	1.64E-05	2.1692E-04
519848.24	4258316.16	3786.64588	0.0941	0.46777	0.09521	0.45333	1.74E-04	3.85E-06	1.67E-05	3.90E-06	1.56E-05	2.1377E-04
519853.95	4258447.85	3779.39162	0.12638	0.47881	0.13062	0.46759	1.73E-04	5.17E-06	1.71E-05	5.35E-06	1.61E-05	2.1709E-04
519769.93	4258629.15	3766.65337	0.11727	0.27061	0.12212	0.26814	1.73E-04	4.80E-06	9.68E-06	5.00E-06	9.21E-06	2.0149E-04
519841.41	4258259.97	3763.11288	0.08257	0.44022	0.08281	0.42551	1.73E-04	3.38E-06	1.57E-05	3.39E-06	1.46E-05	2.0977E-04
519742.01	4258691.44	3761.35006	0.11177	0.23081	0.11542	0.22895	1.73E-04	4.58E-06	8.26E-06	4.73E-06	7.86E-06	1.9798E-04
519844.92	4258299.95	3757.41441	0.09012	0.45649	0.0909	0.44196	1.72E-04	3.69E-06	1.63E-05	3.72E-06	1.52E-05	2.1130E-04
519850.29	4258456.74	3748.82258	0.12653	0.46556	0.13089	0.45498	1.72E-04	5.18E-06	1.67E-05	5.36E-06	1.56E-05	2.1480E-04
519799.65	4258561.14	3746.78149	0.12101	0.32787	0.12581	0.32262	1.72E-04	4.95E-06	1.17E-05	5.15E-06	1.11E-05	2.0480E-04
519809.57	4258541.71	3741.65627	0.12253	0.34964	0.12714	0.34382	1.72E-04	5.02E-06	1.25E-05	5.21E-06	1.18E-05	2.0619E-04
519757.2	4258656.12	3740.99133	0.11464	0.25137	0.11903	0.24921	1.72E-04	4.69E-06	8.99E-06	4.87E-06	8.56E-06	1.9874E-04
519789.73	4258580.58	3739.59975	0.11936	0.30764	0.12452	0.30321	1.72E-04	4.89E-06	1.10E-05	5.10E-06	1.04E-05	2.0296E-04
519819.48	4258522.27	3729.36377	0.12398	0.27345	0.12866	0.36697	1.71E-04	5.08E-06	1.34E-05	5.27E-06	1.26E-05	2.0740E-04
519839.32	4258483.4	3727.95584	0.12666	0.42878	0.1314	0.42003	1.71E-04	5.19E-06	1.53E-05	5.38E-06	1.44E-05	2.1135E-04
519855.22	4258396.23	3727.12778	0.11412	0.48904	0.11737	0.47653	1.71E-04	4.67E-06	1.75E-05	4.81E-06	1.64E-05	2.1432E-04
519846.63	4258465.62	3723.7055	0.12643	0.45224	0.13088	0.44239	1.71E-04	5.18E-06	1.62E-05	5.36E-06	1.52E-05	2.1174E-04
519829.4	4258502.83	3720.18332	0.1254	0.39972	0.13019	0.3923	1.71E-04	5.13E-06	1.43E-05	5.33E-06	1.35E-05	2.0891E-04
519779.81	4258600.02	3720.16493	0.11758	0.28857	0.1227	0.28533	1.71E-04	4.81E-06	1.03E-05	5.02E-06	9.80E-06	2.0063E-04
519841.55	4258283.89	3720.13908	0.08638	0.44329	0.08688	0.42899	1.71E-04	3.54E-06	1.59E-05	3.56E-06	1.47E-05	2.0835E-04
519842.98	4258474.51	3719.36844	0.12653	0.4402	0.13113	0.43095	1.71E-04	5.18E-06	1.57E-05	5.37E-06	1.48E-05	2.1173E-04
519854.67	4258421.83	3716.57041	0.12019	0.4847	0.12393	0.47288	1.71E-04	4.92E-06	1.73E-05	5.07E-06	1.62E-05	2.1408E-04
519850.96	4258358.07	3712.37918	0.10352	0.4764	0.1058	0.46317	1.70E-04	4.24E-06	1.70E-05	4.33E-06	1.59E-05	2.1183E-04
519838.04	4258243.88	3711.70273	0.07935	0.42694	0.07949	0.41239	1.70E-04	3.25E-06	1.53E-05	3.25E-06	1.42E-05	2.0622E-04
519751.14	4258665.52	3701.77493	0.1128	0.2433	0.11694	0.24128	1.70E-04	4.62E-06	8.70E-06	4.79E-06	8.28E-06	1.9622E-04
519836.31	4258217.24	3700.71905	0.07541	0.4192	0.07552	0.40413	1.70E-04	3.09E-06	1.50E-05	3.09E-06	1.39E-05	2.0483E-04
519847.82	4258341.42	3689.02888	0.09884	0.46571	0.10064	0.45238	1.69E-04	4.05E-06	1.67E-05	4.12E-06	1.55E-05	2.0960E-04
519769.89	4258619.46	3688.05895	0.11554	0.2717	0.12036	0.26916	1.69E-04	4.73E-06	9.72E-06	4.93E-06	9.24E-06	1.9782E-04
519852.05	4258379.67	3680.66653	0.10882	0.47956	0.11168	0.46692	1.68E-04	4.46E-06	1.72E-05	4.57E-06	1.60E-05	2.1107E-04
519844.61	4258324.97	3669.95039	0.09453	0.45517	0.09591	0.44164	1.68E-04	3.87E-06	1.63E-05	3.93E-06	1.52E-05	2.0761E-04
519837.73	4258268.92	3669.40876	0.08297	0.42964	0.08329	0.41551	1.68E-04	3.40E-06	1.54E-05	3.41E-06	1.43E-05	2.0479E-04
519799.61	4258551.45	3655.68616	0.11888	0.32897	0.12335	0.32369	1.68E-04	4.87E-06	1.18E-05	5.05E-06	1.11E-05	2.0051E-04
519789.69	4258570.88	3654.88025	0.11734	0.30895	0.12212	0.30429	1.68E-04	4.80E-06	1.11E-05	5.00E-06	1.04E-05	1.9898E-04
519841.32	4258308.7	3650.60525	0.09056	0.44469	0.09157	0.43095	1.67E-04	3.71E-06	1.59E-05	3.75E-06	1.48E-05	2.0564E-04
519759.97	4258638.89	3650.49082	0.11334	0.25657	0.11781	0.2543	1.67E-04	4.64E-06	9.18E-06	4.82E-06	8.73E-06	1.9485E-04
519744.76	4258674.16	3649.80706	0.11067	0.23536	0.11456	0.23345	1.67E-04	4.53E-06	8.42E-06	4.69E-06	8.01E-06	1.9310E-04
519851.05	4258430.63	3649.64506	0.1204	0.47103	0.1242	0.45999	1.67E-04	4.93E-06	1.68E-05	5.09E-06	1.58E-05	2.1009E-04
519809.53	4258532.01	3645.58448	0.12033	0.35064	0.12476	0.34484	1.67E-04	4.93E-06	1.25E-05	5.11E-06	1.18E-05	2.0167E-04
519779.77	4258590.32	3640.62353	0.11567	0.29014	0.12067	0.28646	1.67E-04	4.74E-06	1.04E-05	4.94E-06	9.83E-06	1.9691E-04
519851.63	4258404.96	3634.02745	0.11449	0.47551	0.11783	0.46387	1.67E-04	4.69E-06	1.70E-05	4.82E-06	1.59E-05	2.0917E-04
519819.44	4258512.57	3631.58891	0.12173	0.37447	0.12629	0.36796	1.67E-04	4.98E-06	1.34E-05	5.17E-06	1.26E-05	2.0279E-04
519834.39	4258252.77	3627.41814	0.07972	0.41724	0.07991	0.40321	1.66E-04	3.26E-06	1.49E-05	3.27E-06	1.38E-05	2.0172E-04
519829.36	4258493.14	3626.07207	0.1231	0.40083	0.12775	0.39326	1.66E-04	5.04E-06	1.43E-05	5.23E-06	1.35E-05	2.0447E-04
519837.97	4258292.57	3623.46539	0.08682	0.4333	0.08752	0.41952	1.66E-04	3.55E-06	1.55E-05	3.58E-06	1.44E-05	2.0328E-04
519769.85	4258609.76	3613.77736	0.11382	0.27284	0.1186	0.27014	1.66E-04	4.66E-06	9.76E-06	4.86E-06	9.27E-06	1.9434E-04
519847.27	4258367.04	3600.47184	0.10403	0.46369	0.10656	0.45138	1.65E-04	4.26E-06	1.66E-05	4.36E-06	1.55E-05	2.0589E-04
519753.59	4258647.53	3598.12457	0.11131	0.24792	0.11552	0.2458	1.65E-04	4.56E-06	8.87E-06	4.73E-06	8.44E-06	1.9167E-04
519738.34	4258682.71	3598.09712	0.10853	0.22781	0.11217	0.22597	1.65E-04	4.44E-06	8.15E-06	4.59E-06	7.76E-06	1.9002E-04
519847.43	4258439.43	3596.37869	0.12052	0.45791	0.12438	0.4476	1.65E-04	4.93E-06	1.64E-05	5.09E-06	1.54E-05	2.0677E-04
519830.99	4258236.75	3580.65147	0.0767	0.40473	0.0768	0.39081	1.64E-04	3.14E-06	1.45E-05	3.14E-06	1.34E-05	1.9845E-04
519848.49	4258388.32	3580.44337	0.10923	0.4669	0.11225	0.45509	1.64E-04	4.47E-06	1.67E-05	4.60E-06	1.56E-05	2.0566E-04
519759.93	4258629.19	3576.90525	0.11176	0.25748	0.11618	0.25523	1.64E-04	4.58E-06	9.21E-06	4.76E-06	8.76E-06	1.9141E-04
519844.17	4258350.31	3574.7567	0.09931	0.45334	0.10139	0.44093	1.64E-04	4.07E-06	1.62E-05	4.15E-06	1.51E-05	2.0357E-04
519834.04	4258277.87	3574.40273	0.08337	0.41959	0.08385	0.406	1.64E-04	3.41E-06	1.50E-05	3.43E-06	1.39E-05	1.9978E-04
519789.65	4258561.19	3570.58477	0.11535	0.31005	0.11976	0.30527	1.64E-04	4.72E-06	1.11E-05	4.90E-06	1.05E-05	1.9501E-04
519799.57	4258541.75	3565.28315	0.1168	0.32988	0.12103	0.32463	1.64E-04	4.78E-06	1.18E-05	4.96E-06	1.11E-05	1.9625E-04
519779.73	4258580.62	3562.53845	0.11379	0.2915	0.11851	0.28746	1.63E-04	4.66E-06	1.04E-05	4.85E-06	9.87E-06	1.9325E-04
519843.81	4258448.23	3557.67199	0.12056	0.44538	0.1245	0.43567	1.63E-04	4.94E-06	1.59E-05	5.10E-06	1.50E-05	2.0414E-04
519848.04	4258413.68	3557.28045	0.11485	0.46308	0.11829	0.45208	1.63E-04	4.70E-06	1.66E-05	4.84E-06	1.55E-05	2.0483E-04
519747.42	4258656.67	3554.09694	0.10948	0.23993	0.11346	0.23793	1.63E-04	4.48E-06	8.58E-06	4.65E-06	8.17E-06	1.8893E-04
519840.98	4258333.79	3554.0108	0.09493	0.4428	0.09657	0.43022	1.63E-04	3.89E-06	1.58E-05	3.95E-06	1.48E-05	2.0150E-04
519809.48	4258522.31	3551.03593	0.11819	0.35156	0.1225	0.34576	1.63E-04	4.84E-06	1.26E-05	5.02E-06	1.19E-05	1.9721E-04
519830.73	4258261.65	3543.45299	0.08013	0.40843	0.08042	0.3948	1.63E-04	3.28E-06	1.46E-05	3.29E-06	1.36E-05	1.9730E-04
519769.81	4258600.06	3541.73759	0.11209	0.27406	0.11679	0.27107	1.62E-04	4.59E-06	9.80E-06	4.78E-06	9.31E-06	1.9097E-04
519837.72	4258317.45	3540.66997	0.09096	0.43318	0.09223	0.42028	1.62E-04	3.72E-06	1.55E-05	3.78E-06	1.44E-05	1.9986E-04
519829.32	4258483.44	3538.18745	0.12084	0.40169	0.1253	0.39399	1.62E-04	4.95E-06	1.44E-05	5.13E-06	1.35E-05	2.0030E-04
519819.4	4258502.88	3537.47111	0.11956	0.37541	0.12401	0.36883	1.62E-04	4.90E-06	1.34E-05	5.08E-06	1.27E-05	1.9836E-04
519840.19	4258457.03	3532.41746	0.12055	0.4334	0.12496	0.42425	1.62E-04	4.94E-06	1.55E-05	5.10E-06	1.46E-05	2.0216E-04
519832.94	4258474.64	3525.45211	0.12073	0.41172	0.12505	0.40362	1.62E-04	4.94E-06	1.47E-05	5.12E-06	1.39E-05	2.0039E-04
519834.4	4258301.26	3523.02316	0.08725	0.42351	0.08819	0.41029	1.62E-04	3.57E-06	1.51E-05	3.61E-06	1.41E-05	1.9805E-04
519836.57	4258465.84	3522.38442	0.12062	0.42225	0.12479	0.41364	1.62E-04	4.94E-06	1.51E-05	5.11E-06	1.42E-05	2.0095E-04
519759.89	4258619.5	3507.90104	0.11018	0.25843	0.11457	0.25611	1.61E-04	4.51E-06	9.24E-06	4.69E-06	8.79E-06	1.8817E-04
519741.06	4258665.38	3503.66993	0.10748	0.23219	0.11125	0.23028	1.61E-04	4.40E-06	8.31E-06	4.56E-06	7.91E-06	1.8591E-04
519827.36	4258245.58	3502.41414	0.07706	0.39617	0.07722	0.38271	1.61E-04	3.16E-06	1.42E-05	3.16E-06	1.31E-05	1.9431E-04
519843.58	4258376	3494.04002	0.10446	0.45113	0.10716	0.43972	1.60E-04	4.28E-06	1.61E-05	4.39E-06	1.51E-05	2.0020E-04
519844.45	4258422.41	3490.61464	0.11507	0.45054	0.11857	0.44023	1.60E-04	4.71E-06	1.61E-05	4.85E-06	1.51E-05	2.0094E-04
519844.93	4258396.98	3490.15044	0.1096	0.45435	0.1127	0.44338	1.60E-04	4.49E-06	1.63E-05	4.61E-06	1.52E-05	2.0070E-04
519789.61	4258551.49	3486.42193	0.11339	0.31099	0.1175	0.30618	1.60E-04	4.64E-06	1.11E-05	4.81E-06	1.05E-05	1.9104E-04
519779.69	4258570.93	3485.47186	0.11193	0.29264	0.11631	0.28838	1.60E-04	4.58E-06	1.05E-05	4.76E-06	9.90E-06	1.8962E-04
519830.36	4258286.82	3479.73459	0.0838	0.41014	0.08448	0.39706	1.60E-04	3.43E-06	1.47E-05	3.46E-06	1.36E-05	1.9484E-04
519799.53	4258532.05	3475.42276	0.11478	0.33057	0.11881	0.32539	1.59E-04	4.70E-06	1.18E-05	4.86E-06	1.12E-05	1.9200E-04
519769.77	4258590.36	3469.75195	0.11034	0.2754	0.11491	0.272	1.59E-04	4.52E-06	9.85E-06	4.70E-06	9.34E-06	1.8760E-04
519749.97	4258638.93	3468.59106	0.10812	0.24446	0.11215	0.24238	1.59E-04	4.43E-06	8.74E-06	4.59E-06	8.32E-06	1.8522E-04
519840.51	4258359.2	3467.07227	0.09977	0.44159	0.10208	0.43003	1.59E-04	4.08E-06	1.58E-05	4.18E-06	1.48E-05	1.9789E-04
519823.94	4258229.63	3461.66712	0.07425	0.38475	0.07434	0.37136	1.59E-04	3.04E-06	1.38E-05	3.04E-06	1.27E-05	1.9141E-04
519809.44	4258512.62	3458.90112	0.11613	0.35242	0.12034	0.34658	1.59E-04	4.75E-06	1.26E-05	4.93E-06	1.19E-05	1.9287E-04
519734.66	4258673.98	3454.06173	0.1055	0.22479	0.10903	0.22299	1.58E-04	4.32E-06	8.04E-06	4.46E-06	7.66E-06	1.8295E-04
519827.08	4258270.54	3453.61868	0.0805	0.39918	0.08094	0.38608	1.58E-04	3.30E-06	1.43E-05	3.31E-06	1.33E-05	1.9259E-04
519819.36	4258493.18	3447.56711	0.11745	0.37631	0.12179	0.36959	1.58E-04	4.81E-06	1.35E-05	4.99E-06	1.27E-05	1.9411E-04
519759.85	4258609.8	3442.80668	0.10863	0.25923	0.11291	0.25684	1.58E-04	4.45E-06	9.27E-06	4.62E-06	8.82E-06	1.8511E-04
519837.36	4258342.6	3442.74205	0.0953	0.43106	0.09721	0.41934	1.58E-04	3.90E-06	1.54E-05	3.98E-06	1.44E-05	1.9564E-04
519834.12	4258326.19	3434.25465	0.09137	0.42237	0.09291	0.41027	1.58E-04	3.74E-06	1.51E-05	3.80E-06	1.41E-05	1.9429E-04
519840.86	4258431.13	3433.35948	0.11517	0.41835	0.11873	0.42872	1.58E-04	4.72E-06	1.57E-05	4.86E-06	1.47E-05	1.9749E-04
519823.73	4258254.4	3422.75229	0.07744	0.38807	0.0777	0.375	1.57E-04	3.17E-06	1.39E-05	3.18E-06	1.29E-05	1.9014E-04
519830.82	4258309.95	3421.84187	0.08765	0.41314	0.08884	0.40068	1.57E-04	3.59E-06	1.48E-05	3.64E-06	1.38E-05	1.9275E-04
519743.7	4258647.82	3421.21408	0.1063	0.23656	0.11011	0.23458	1.57E-04	4.35E-06	8.46E-06	4.51E-06	8.05E-06	1.8233E-04
519779.65	4258561.23	3407.97734	0.11009	0.29362	0.11413	0.28922	1.56E-04	4.51E-06	1.05E-05	4.67E-06	9.93E-06	1.8596E-04
519841.37	4258405.63	3407.63991	0.10982	0.44195	0.11298	0.43177	1.56E-04	4.50E-06	1.58E-05	4.63E-06	1.48E-05	1.9609E-04
519749.93	4258629.24	3403.365	0.10665	0.24526	0.11066	0.24317	1.56E-04	4.37E-06	8.77E-06	4.53E-06	8.35E-06	1.8216E-04
519780.57	4258541.79	3402.40903	0.11148	0.31178	0.11536	0.30698	1.56E-04	4.56E-06	1.12E-05	4.72E-06	1.05E-05	1.8707E-04
519769.73	4258580.67	3399.34654	0.10861	0.27659	0.11293	0.27286	1.56E-04	4.45E-06	9.89E-06	4.62E-06	9.37E-06	1.8429E-04
519839.89	4258384.96	3393.95008	0.10479	0.43865	0.10761	0.42811	1.56E-04	4.29E-06	1.57E-05	4.41E-06	1.47E-05	1.9479E-04
519837.27	4258439.86	3389.57149	0.11519	0.42663	0.11881	0.41758	1.56E-04	4.72E-06	1.53E-05	4.86E-06	1.43E-05	1.9468E-04
519799.49	4258522.35	3386.87476	0.11282	0.33144	0.11677	0.32622	1.55E-04	4.62E-06	1.19E-05	4.78E-06	1.12E-05	1.8784E-04
519820.34	4258238.4	3385.43821	0.07456	0.37645	0.0747	0.36354	1.55E-04	3.05E-06	1.35E-05	3.06E-06	1.25E-05	1.8737E-04
519826.67	4258295.78	3381.11355	0.08421	0.40101	0.08514	0.38847	1.55E-04	3.45E-06	1.43E-05	3.49E-06	1.33E-05	1.8973E-04
519759.81	4258600.1	3376.9489	0.10699	0.26057	0.1113	0.25777	1.55E-04	4.38E-06	9.32E-06	4.56E-06	8.85E-06	1.8204E-04
519737.37	4258656.59	3372.5475	0.10444	0.22902	0.10805	0.22711	1.55E-04	4.28E-06	8.19E-06	4.42E-06	7.80E-06	1.7941E-04
519809.4	4258502.92	3369.51521	0.11413	0.3532	0.11826	0.3473	1.55E-04	4.67E-06	1.26E-05	4.84E-06	1.19E-05	1.8866E-04
519836.86	4258368.08	3367.5497	0.1002	0.43044	0.1027	0.41964	1.54E-04	4.10E-06	1.54E-05	4.20E-06	1.44E-05	1.9261E-04
519819.32	4258483.48	3363.12117	0.11539	0.37697	0.11957	0.37015	1.54E-04	4.72E-06	1.35E-05	4.90E-06	1.27E-05	1.9011E-04
519823.42	4258279.43	3362.48989	0.08088	0.39026	0.08152	0.37769	1.54E-04	3.31E-06	1.40E-05	3.34E-06	1.30E-05	1.8784E-04
519833.68	4258448.58	3360.26963	0.11518	0.41556	0.11889	0.40701	1.54E-04	4.72E-06	1.49E-05	4.87E-06	1.40E-05	1.9258E-04
519822.91	4258474.76	3348.99263	0.11534	0.38596	0.11942	0.37878	1.54E-04	4.72E-06	1.38E-05	4.89E-06	1.30E-05	1.9007E-04
519830.09	4258457.31	3344.92387	0.11521	0.40518	0.11904	0.39709	1.53E-04	4.72E-06	1.45E-05	4.87E-06	1.36E-05	1.9118E-04
519833.73	4258351.42	3344.58825	0.09582	0.42109	0.09797	0.41011	1.53E-04	3.92E-06	1.51E-05	4.01E-06	1.41E-05	1.9052E-04
519837.81	4258414.29	3343.93242	0.11011	0.43103	0.11336	0.42135	1.53E-04	4.51E-06	1.54E-05	4.64E-06	1.45E-05	1.9245E-04
519826.5	4258466.03	3342.9893	0.11531	0.39546	0.11927	0.38785	1.53E-04	4.72E-06	1.41E-05	4.88E-06	1.33E-05	1.9043E-04
519749.89	4258619.54	3342.37489	0.1052	0.24609	0.10919	0.24394	1.53E-04	4.31E-06	8.80E-06	4.47E-06	8.37E-06	1.7930E-04
519820.1	4258263.23	3338.1905	0.07779	0.37967	0.0782	0.36709	1.53E-04	3.19E-06	1.36E-05	3.20E-06	1.26E-05	1.8572E-04
519830.52	4258334.94	3331.32794	0.09178	0.41205	0.09358	0.40072	1.53E-04	3.76E-06	1.47E-05	3.83E-06	1.38E-05	1.8892E-04
519779.61	4258551.53	3330.14848	0.10829	0.29444	0.11205	0.29	1.53E-04	4.43E-06	1.05E-05	4.59E-06	9.96E-06	1.8229E-04
519769.69	4258570.97	3328.89253	0.1069	0.27757	0.11089	0.27363	1.53E-04	4.38E-06	9.93E-06

519779.53	4258532.14	3173.33058	0.10481	0.29567	0.10823	0.29124	1.46E-04	4.29E-06	1.06E-05	4.43E-06	1.00E-05	1.7488E-04
519828.83	4258411.85	3169.94453	0.1056	0.40579	0.10867	0.39698	1.45E-04	4.32E-06	1.45E-05	4.45E-06	1.36E-05	1.8235E-04
519749.77	4258590.45	3167.13969	0.10076	0.24899	0.10456	0.24602	1.45E-04	4.13E-06	8.91E-06	4.28E-06	8.45E-06	1.7106E-04
519812.84	4258280.88	3162.95795	0.07847	0.36325	0.07929	0.35176	1.45E-04	3.21E-06	1.30E-05	3.25E-06	1.21E-05	1.7664E-04
519826.47	4258369.05	3157.39343	0.09657	0.40087	0.09904	0.39125	1.45E-04	3.95E-06	1.43E-05	4.06E-06	1.34E-05	1.8063E-04
519789.44	4258512.7	3152.68636	0.10605	0.31375	0.10964	0.30889	1.45E-04	4.34E-06	1.12E-05	4.49E-06	1.06E-05	1.7530E-04
519729.97	4258639.02	3147.82864	0.09872	0.2226	0.10202	0.22077	1.44E-04	4.04E-06	7.96E-06	4.18E-06	7.58E-06	1.6818E-04
519809.51	4258264.7	3143.23386	0.0755	0.35301	0.07606	0.34153	1.44E-04	3.09E-06	1.26E-05	3.11E-06	1.17E-05	1.7476E-04
519823.32	4258352.44	3137.75841	0.09252	0.39243	0.09471	0.38256	1.44E-04	3.79E-06	1.40E-05	3.88E-06	1.31E-05	1.7879E-04
519739.85	4258609.88	3137.13536	0.09919	0.23539	0.10281	0.23319	1.44E-04	4.06E-06	8.42E-06	4.21E-06	8.01E-06	1.6862E-04
519799.36	4258493.26	3132.87642	0.10729	0.33341	0.11104	0.32798	1.44E-04	4.39E-06	1.19E-05	4.55E-06	1.13E-05	1.7586E-04
519820.1	4258336.02	3123.69275	0.08871	0.38369	0.0906	0.37355	1.43E-04	3.63E-06	1.37E-05	3.71E-06	1.28E-05	1.7720E-04
519759.65	4258561.31	3118.06684	0.10063	0.26437	0.10398	0.26054	1.43E-04	4.12E-06	9.46E-06	4.26E-06	8.94E-06	1.6983E-04
519825.14	4258420.82	3115.79065	0.1057	0.39532	0.10883	0.38703	1.43E-04	4.33E-06	1.41E-05	4.46E-06	1.33E-05	1.7916E-04
519769.57	4258541.88	3112.33325	0.1019	0.27971	0.10515	0.27556	1.43E-04	4.17E-06	1.00E-05	4.31E-06	9.46E-06	1.7073E-04
519825.89	4258394.74	3111.14301	0.10112	0.39892	0.10393	0.38998	1.43E-04	4.14E-06	1.43E-05	4.26E-06	1.34E-05	1.7879E-04
519749.73	4258580.75	3108.54853	0.09928	0.24991	0.10286	0.24664	1.43E-04	4.06E-06	8.94E-06	4.21E-06	8.47E-06	1.6830E-04
519723.65	4258647.79	3102.68024	0.09709	0.21574	0.1002	0.21398	1.42E-04	3.98E-06	7.72E-06	4.10E-06	7.35E-06	1.6549E-04
519729.93	4258629.32	3096.78987	0.09746	0.22321	0.10076	0.22135	1.42E-04	3.99E-06	7.98E-06	4.13E-06	7.60E-06	1.6577E-04
519779.49	4258522.44	3094.79419	0.10313	0.29625	0.10648	0.29177	1.42E-04	4.22E-06	1.06E-05	4.36E-06	1.00E-05	1.7118E-04
519739.81	4258600.19	3084.94291	0.09782	0.23626	0.10139	0.23377	1.42E-04	4.01E-06	8.45E-06	4.15E-06	8.03E-06	1.6616E-04
519815.62	4258322.63	3083.06096	0.08527	0.37205	0.08692	0.36181	1.41E-04	3.49E-06	1.33E-05	3.56E-06	1.24E-05	1.7422E-04
519812.45	4258306.09	3081.34338	0.08196	0.3642	0.08331	0.35355	1.41E-04	3.36E-06	1.30E-05	3.41E-06	1.21E-05	1.7330E-04
519809.21	4258289.7	3074.06559	0.07881	0.35552	0.07987	0.34461	1.41E-04	3.23E-06	1.27E-05	3.27E-06	1.18E-05	1.7208E-04
519822.85	4258377.86	3073.02504	0.09686	0.39122	0.09943	0.38219	1.41E-04	3.97E-06	1.40E-05	4.07E-06	1.31E-05	1.7614E-04
519789.4	4258503	3071.90012	0.10435	0.31423	0.10789	0.30933	1.41E-04	4.27E-06	1.12E-05	4.42E-06	1.06E-05	1.7148E-04
519821.45	4258429.78	3071.88207	0.10568	0.38505	0.10886	0.37729	1.41E-04	4.33E-06	1.38E-05	4.46E-06	1.30E-05	1.7644E-04
519805.91	4258273.47	3058.4204	0.0758	0.34539	0.07657	0.33446	1.40E-04	3.10E-06	1.24E-05	3.14E-06	1.15E-05	1.7039E-04
519799.32	4258483.56	3054.96761	0.10555	0.33383	0.10921	0.32829	1.40E-04	4.32E-06	1.19E-05	4.47E-06	1.13E-05	1.7216E-04
519759.61	4258551.61	3050.95794	0.09908	0.26497	0.10221	0.26108	1.40E-04	4.06E-06	9.48E-06	4.18E-06	8.96E-06	1.6665E-04
519819.72	4258361.19	3049.52275	0.09284	0.38324	0.09516	0.374	1.40E-04	3.80E-06	1.37E-05	3.90E-06	1.28E-05	1.7415E-04
519749.69	4258571.05	3049.34233	0.09781	0.25068	0.10112	0.24719	1.40E-04	4.00E-06	8.97E-06	4.14E-06	8.49E-06	1.6550E-04
519729.89	4258619.62	3048.95626	0.09622	0.22384	0.09951	0.22191	1.40E-04	3.94E-06	8.01E-06	4.07E-06	7.62E-06	1.6352E-04
519822.23	4258403.63	3045.84909	0.1013	0.38899	0.10418	0.38057	1.40E-04	4.15E-06	1.39E-05	4.27E-06	1.31E-05	1.7513E-04
519817.76	4258438.75	3041.44003	0.10562	0.3753	0.10888	0.36786	1.40E-04	4.32E-06	1.34E-05	4.46E-06	1.26E-05	1.7437E-04
519769.53	4258532.18	3038.49978	0.10031	0.28018	0.10344	0.27602	1.39E-04	4.11E-06	1.00E-05	4.24E-06	9.48E-06	1.6724E-04
519803.01	4258474.6	3038.30511	0.10561	0.34146	0.10922	0.33562	1.39E-04	4.32E-06	1.22E-05	4.47E-06	1.15E-05	1.7192E-04
519739.77	4258590.49	3032.6857	0.09645	0.23711	0.09989	0.23432	1.39E-04	3.95E-06	8.48E-06	4.09E-06	8.04E-06	1.6370E-04
519816.52	4258344.71	3029.49519	0.08899	0.37435	0.09103	0.36494	1.39E-04	3.64E-06	1.34E-05	3.73E-06	1.25E-05	1.7228E-04
519814.08	4258447.71	3024.75443	0.10559	0.3662	0.10894	0.35925	1.39E-04	4.32E-06	1.31E-05	4.46E-06	1.23E-05	1.7299E-04
519806.7	4258465.64	3024.00925	0.10558	0.3493	0.10912	0.34313	1.39E-04	4.32E-06	1.25E-05	4.47E-06	1.18E-05	1.7180E-04
519810.39	4258456.67	3018.51572	0.10555	0.35747	0.10899	0.35091	1.38E-04	4.32E-06	1.28E-05	4.46E-06	1.20E-05	1.7210E-04
519779.44	4258512.74	3016.54848	0.10151	0.29669	0.1048	0.29219	1.38E-04	4.16E-06	1.06E-05	4.29E-06	1.00E-05	1.6748E-04
519719.97	4258639.06	3007.03079	0.0945	0.21269	0.09748	0.21097	1.38E-04	3.87E-06	7.61E-06	3.99E-06	7.24E-06	1.6067E-04
519729.85	4258609.93	3001.78637	0.09495	0.22455	0.09825	0.22244	1.38E-04	3.89E-06	8.03E-06	4.02E-06	7.64E-06	1.6130E-04
519819.22	4258386.68	2997.44564	0.09709	0.38198	0.09974	0.37341	1.38E-04	3.98E-06	1.37E-05	4.08E-06	1.28E-05	1.7206E-04
519789.36	4258493.3	2993.61313	0.1027	0.31466	0.10619	0.30967	1.37E-04	4.20E-06	1.13E-05	4.35E-06	1.06E-05	1.6778E-04
519818.57	4258412.51	2991.91503	0.10142	0.37941	0.10437	0.37145	1.37E-04	4.15E-06	1.36E-05	4.27E-06	1.28E-05	1.7201E-04
519808.79	4258314.97	2988.9146	0.08227	0.35568	0.08385	0.34573	1.37E-04	3.37E-06	1.27E-05	3.43E-06	1.19E-05	1.6852E-04
519749.65	4258561.35	2988.21505	0.09636	0.25132	0.0994	0.24769	1.37E-04	3.95E-06	8.99E-06	4.07E-06	8.50E-06	1.6260E-04
519811.94	4258331.59	2987.52236	0.08557	0.36302	0.08741	0.35352	1.37E-04	3.50E-06	1.30E-05	3.58E-06	1.21E-05	1.6927E-04
519805.58	4258298.53	2984.91734	0.07913	0.34756	0.08042	0.3373	1.37E-04	3.24E-06	1.24E-05	3.29E-06	1.16E-05	1.6749E-04
519759.57	4258541.92	2982.55918	0.09757	0.26544	0.10053	0.26153	1.37E-04	3.99E-06	9.49E-06	4.12E-06	8.98E-06	1.6342E-04
519739.73	4258580.79	2978.40776	0.09507	0.23796	0.09832	0.23485	1.37E-04	3.89E-06	8.51E-06	4.03E-06	8.06E-06	1.6114E-04
519802.3	4258282.24	2973.82093	0.07611	0.33807	0.0771	0.3271	1.36E-04	3.12E-06	1.21E-05	3.16E-06	1.13E-05	1.6605E-04
519816.12	4258369.94	2966.7726	0.0931	0.37415	0.09551	0.36548	1.36E-04	3.81E-06	1.34E-05	3.91E-06	1.25E-05	1.6976E-04
519769.49	4258522.48	2964.2809	0.09876	0.28059	0.10182	0.27642	1.36E-04	4.04E-06	1.00E-05	4.17E-06	9.49E-06	1.6373E-04
519719.93	4258629.36	2961.32865	0.09332	0.21322	0.09632	0.21146	1.36E-04	3.82E-06	7.63E-06	3.94E-06	7.26E-06	1.5851E-04
519729.81	4258600.23	2954.48878	0.09368	0.22532	0.09693	0.22294	1.36E-04	3.84E-06	8.06E-06	3.97E-06	7.65E-06	1.5906E-04
519812.95	4258353.4	2948.39118	0.08935	0.36643	0.09154	0.35753	1.35E-04	3.66E-06	1.31E-05	3.75E-06	1.23E-05	1.6805E-04
519814.92	4258421.4	2945.97962	0.10144	0.36994	0.10443	0.36246	1.35E-04	4.15E-06	1.32E-05	4.28E-06	1.24E-05	1.6926E-04
519779.4	4258503.04	2939.60021	0.09994	0.29705	0.10319	0.29251	1.35E-04	4.09E-06	1.06E-05	4.23E-06	1.00E-05	1.6385E-04
519815.59	4258395.49	2931.53107	0.09727	0.37282	0.09998	0.36473	1.34E-04	3.98E-06	1.33E-05	4.09E-06	1.25E-05	1.6843E-04
519740.61	4258551.66	2925.80423	0.09493	0.25181	0.09775	0.24812	1.34E-04	3.89E-06	9.01E-06	4.00E-06	8.52E-06	1.5964E-04
519739.69	4258571.09	2923.81192	0.09371	0.23862	0.0967	0.2353	1.34E-04	3.84E-06	8.54E-06	3.96E-06	8.08E-06	1.5855E-04
519789.32	4258483.61	2918.87987	0.10111	0.31498	0.10452	0.30989	1.34E-04	4.14E-06	1.13E-05	4.28E-06	1.06E-05	1.6424E-04
519819.89	4258319.66	2917.92442	0.09215	0.21379	0.09517	0.21192	1.34E-04	3.77E-06	7.65E-06	3.90E-06	7.28E-06	1.5646E-04
519759.53	4258532.22	2913.08694	0.0961	0.26583	0.09895	0.2619	1.34E-04	3.93E-06	9.51E-06	4.05E-06	8.99E-06	1.6013E-04
519811.26	4258430.29	2910.74808	0.10137	0.36078	0.10442	0.35373	1.34E-04	4.15E-06	1.29E-05	4.28E-06	1.21E-05	1.6701E-04
519726.77	4258590.53	2906.49996	0.0924	0.22609	0.09554	0.2234	1.33E-04	3.78E-06	8.09E-06	3.91E-06	7.67E-06	1.5680E-04
519792.98	4258474.72	2902.46025	0.10121	0.32189	0.10462	0.31655	1.33E-04	4.14E-06	1.15E-05	4.28E-06	1.09E-05	1.6397E-04
519808.26	4258340.54	2900.87464	0.0859	0.35497	0.08791	0.34605	1.33E-04	3.52E-06	1.27E-05	3.60E-06	1.19E-05	1.6478E-04
519801.95	4258307.35	2896.45383	0.07942	0.33963	0.08092	0.33004	1.33E-04	3.25E-06	1.21E-05	3.31E-06	1.13E-05	1.6293E-04
519805.14	4258323.86	2895.43434	0.08253	0.34707	0.08429	0.33786	1.33E-04	3.38E-06	1.24E-05	3.45E-06	1.16E-05	1.6368E-04
519798.69	4258291	2893.4263	0.07646	0.33175	0.0777	0.32187	1.33E-04	3.13E-06	1.19E-05	3.18E-06	1.11E-05	1.6197E-04
519812.52	4258378.69	2891.97589	0.09332	0.36556	0.09581	0.35737	1.33E-04	3.82E-06	1.31E-05	3.92E-06	1.23E-05	1.6577E-04
519769.44	4258512.78	2890.08566	0.09726	0.28092	0.10027	0.27672	1.33E-04	3.98E-06	1.00E-05	4.11E-06	9.50E-06	1.6023E-04
519807.6	4258439.17	2889.96733	0.10136	0.35234	0.10448	0.34565	1.33E-04	4.15E-06	1.26E-05	4.28E-06	1.19E-05	1.6548E-04
519796.64	4258465.83	2886.48232	0.10124	0.32901	0.1046	0.32337	1.32E-04	4.15E-06	1.18E-05	4.28E-06	1.11E-05	1.6372E-04
519803.95	4258448.06	2879.66366	0.10133	0.34425	0.10454	0.33792	1.32E-04	4.15E-06	1.23E-05	4.28E-06	1.16E-05	1.6446E-04
519800.29	4258456.95	2879.60006	0.10131	0.33653	0.1046	0.33055	1.32E-04	4.15E-06	1.20E-05	4.28E-06	1.13E-05	1.6393E-04
519811.97	4258404.31	2875.9916	0.0974	0.36403	0.10017	0.35637	1.32E-04	3.99E-06	1.30E-05	4.10E-06	1.22E-05	1.6529E-04
519719.85	4258609.97	2875.95867	0.09098	0.2144	0.09399	0.21237	1.32E-04	3.73E-06	7.67E-06	3.85E-06	7.29E-06	1.5448E-04
519739.65	4258561.4	2867.32588	0.09236	0.23915	0.09511	0.2357	1.32E-04	3.78E-06	8.55E-06	3.89E-06	8.09E-06	1.5587E-04
519779.36	4258493.35	2864.76398	0.09842	0.29738	0.10163	0.29276	1.31E-04	4.03E-06	1.06E-05	4.16E-06	1.01E-05	1.6031E-04
519809.37	4258362.09	2864.31754	0.08955	0.31764	0.09181	0.34934	1.31E-04	3.67E-06	1.28E-05	3.76E-06	1.20E-05	1.6362E-04
519749.57	4258541.96	2861.71573	0.09352	0.25219	0.0962	0.24848	1.31E-04	3.83E-06	9.02E-06	3.94E-06	8.53E-06	1.5661E-04
519729.73	4258580.83	2857.42892	0.09112	0.22679	0.09407	0.22382	1.31E-04	3.73E-06	8.11E-06	3.85E-06	7.68E-06	1.5447E-04
519759.49	4258522.52	2842.90424	0.09467	0.26611	0.09745	0.26218	1.30E-04	3.88E-06	9.52E-06	3.99E-06	9.00E-06	1.5681E-04
519719.81	4258600.27	2832.99718	0.0898	0.21508	0.09277	0.21278	1.30E-04	3.68E-06	7.80E-06	3.80E-06	7.30E-06	1.5245E-04
519808.34	4258413.13	2830.53639	0.09745	0.35539	0.10028	0.34814	1.30E-04	3.99E-06	1.27E-05	4.11E-06	1.20E-05	1.6262E-04
519808.92	4258387.44	2825.80695	0.09349	0.35732	0.09605	0.34953	1.30E-04	3.83E-06	1.28E-05	3.93E-06	1.20E-05	1.6218E-04
519804.57	4258349.49	2817.66144	0.08617	0.34695	0.0883	0.33858	1.29E-04	3.53E-06	1.24E-05	3.62E-06	1.16E-05	1.6045E-04
519769.4	4258503.09	2816.88657	0.09581	0.2812	0.09878	0.27696	1.29E-04	3.92E-06	1.01E-05	4.04E-06	9.51E-06	1.5677E-04
519795.08	4258299.77	2809.28941	0.07674	0.32457	0.07818	0.31531	1.29E-04	3.14E-06	1.16E-05	3.20E-06	1.08E-05	1.5766E-04
519798.31	4258316.18	2809.10817	0.07968	0.33198	0.08136	0.32303	1.29E-04	3.26E-06	1.19E-05	3.33E-06	1.11E-05	1.5843E-04
519739.61	4258551.7	2808.96413	0.09103	0.23955	0.09358	0.23604	1.29E-04	3.73E-06	8.57E-06	3.83E-06	8.10E-06	1.5310E-04
519801.48	4258332.75	2808.41602	0.08279	0.33915	0.08469	0.33057	1.29E-04	3.39E-06	1.21E-05	3.47E-06	1.13E-05	1.5918E-04
519729.69	4258571.14	2806.97181	0.08986	0.22736	0.09257	0.22419	1.29E-04	3.68E-06	8.13E-06	3.79E-06	7.70E-06	1.5208E-04
519749.53	4258532.26	2796.19653	0.09216	0.25249	0.09473	0.24877	1.28E-04	3.77E-06	9.03E-06	3.88E-06	8.54E-06	1.5351E-04
519805.8	4258370.78	2792.89069	0.08978	0.34987	0.09212	0.34199	1.28E-04	3.68E-06	1.25E-05	3.77E-06	1.17E-05	1.5984E-04
519779.32	4258483.65	2792.8555	0.09694	0.29762	0.10011	0.2929	1.28E-04	3.97E-06	1.06E-05	4.10E-06	1.01E-05	1.5690E-04
519804.71	4258421.94	2792.19074	0.09742	0.34691	0.10029	0.34009	1.28E-04	3.99E-06	1.24E-05	4.11E-06	1.17E-05	1.6028E-04
519719.77	4258590.57	2789.38747	0.08861	0.21575	0.09147	0.21316	1.28E-04	3.63E-06	7.72E-06	3.75E-06	7.32E-06	1.5038E-04
519782.95	4258474.83	2775.18149	0.09708	0.30388	0.10026	0.29895	1.27E-04	3.97E-06	1.09E-05	4.11E-06	1.03E-05	1.5653E-04
519759.44	4258512.82	2772.40317	0.09328	0.26633	0.09601	0.26239	1.27E-04	3.82E-06	9.53E-06	3.93E-06	9.01E-06	1.5348E-04
519805.32	4258396.19	2768.95893	0.09362	0.34922	0.09623	0.34182	1.27E-04	3.83E-06	1.25E-05	3.94E-06	1.17E-05	1.5903E-04
519801.09	4258430.76	2767.76415	0.09741	0.33909	0.10035	0.332	1.27E-04	3.99E-06	1.21E-05	4.11E-06	1.14E-05	1.5862E-04
519786.58	4258466.02	2759.76419	0.09716	0.31037	0.10033	0.30516	1.27E-04	3.98E-06	1.11E-05	4.11E-06	1.05E-05	1.5628E-04
519729.65	4258561.44	2754.63201	0.08861	0.22779	0.09108	0.2245	1.26E-04	3.63E-06	8.15E-06	3.73E-06	7.71E-06	1.4959E-04
519797.46	4258439.57	2751.9701	0.09735	0.33142	0.10035	0.32528	1.26E-04	3.99E-06	1.19E-05	4.11E-06	1.12E-05	1.5737E-04
519739.57	4258542	2748.93208	0.08973	0.23984	0.09213	0.23631	1.26E-04	3.67E-06	8.58E-06	3.77E-06	8.11E-06	1.5025E-04
519790.2	4258457.2	2748.34177	0.0972	0.31702	0.10032	0.31153	1.26E-04	3.98E-06	1.13E-05	4.11E-06	1.07E-05	1.5621E-04
519769.36	4258493.39	2745.20507	0.09439	0.28143	0.09735	0.27712	1.26E-04	3.86E-06	1.01E-05	3.99E-06	9.51E-06	1.5338E-04
519793.83	4258448.39	2744.8329	0.09725	0.31297	0.10031	0.31816	1.26E-04	3.98E-06	1.16E-05	4.11E-06	1.09E-05	1.5653E-04
519719.73	4258580.87	2743.75184	0.08741	0.21637	0.0901	0.2135	1.26E-04	3.58E-06	7.74E-06	3.69E-06	7.33E-06	1.4821E-04
519800.89	4258358.44	2738.78764	0.08639	0.33904	0.08859	0.33117	1.26E-04	3.54E-06	1.21E-05	3.63E-06	1.14E-05	1.5631E-04
519749.49	4258522.56	2729.76505	0.09083	0.25268	0.09334	0.24896	1.25E-04	3.72E-06	9.04E-06	3.82E-06	8.55E-06	1.5036E-04
519797.82	4258341.63	2728.42498	0.08306	0.33186	0.08507	0.32378	1.25E-04	3.40E-06	1.19E-05	3.48E-06	1.11E-05	1.5504E-04
519802.22	4258379.46	2727.82757	0.08996	0.34239	0.09237	0.33488	1.25E-04	3.68E-06	1.22E-05	3.78E-06	1.15E-05	1.5636E-04
519791.47	4258308.54	2726.87924	0.07699	0.31763	0.07861	0.30897	1.25E-04	3.15E-06	1.14E-05	3.22E-06	1.06E-05	1.5344E-04
519794.68	4258325	2724.28544	0.07991	0.32449	0.08173	0.31617	1.25E-04	3.27E-06	1.16E-05	3.35E-06	1.09E-05	1.5406E-04
519801.72	4258404.94	2721.73848	0.09368	0.34127	0.09635	0.33425	1.25E-04	3.84E-06	1.22E-05	3.94E-06	1.15E-05	1.5633E-04
519759.4	4258503.13	2702.59159	0.09192	0.26656	0.09464	0.26256	1.24E-04	3.76E-06	9.53E-06	3.87E-06	9.01E-06	1.5018E-04
519729.61	4258551.74	2700.05906	0.08737	0.2281	0.08965	0.22476	1.24E-04	3.58E-06	8.14E-06	3.67E-06	7.72E-06	1.4700E-04
519719.69	4258571.18	2696.82986	0.08623	0.21687	0.0887	0.2138	1.24E-04	3.53E-06	7.76E-06	3.63E-06	7.34E-06	1.4598E-04
519739.53	4258532.3	2687.08403	0.08845	0.24006	0.09077	0.23652	1.23E-04	3.62E-06	8.59E-06	3.72E-06	8.12E-06	1.4732E-04
519798.12	4258413.69	2682.66609	0.09369	0.33349	0.09639	0.32684	1.23E-04	3.84E-06	1.19E-05	3.95E-06	1.12E-05	1.5401E-04
519769.32	4258483.69	2676.02857	0.09302	0.28159	0.09595	0.27719	1.23E-04	3.81E-06	1.01E-05	3.93E-06	9.52E-06	1.5010E-04
519798.65	4258388.15	2670.26624	0.09007	0.33493	0.09254	0.32778	1.23E-04	3.69E-06	1.20E-05	3.79E-06	1.13E-05	1.5322E-04
519797.21	4258367.39	2667.46098	0.08657	0.33157	0.08884	0.32413	1.22E-04	3.54E-06	1.19E-05	3.64E-06	1.11E-05	1.5255E-04
519749.44	4258512.87	2662.79248	0.08953	0.25281	0.09201	0.24907	1.22E-04	3.67E-06	9.04E-06	3.77E-06	8.55E-06	1.4719E-04
519772.92	4258474.94	2657.33289	0.09317	0.28722	0.09613	0.28265	1.22E-04	3.81E-06	1.03E-05	3.94E-06	9.70E-06	1.4964E-04
519794.17	4258350.52	2653.82894	0.08329	0.32487	0.08539	0.31723	1.22E-04	3.41E-06	1.16E-05	3.50E-06	1.09E-05	1.5117E-04
519794.52	4258422.44	2652.1601	0.09363	0.32594	0.09637	0.31966	1.22E-04	3.83E-06	1.17E-05	3.95E-06	1.10E-05	1.5209E-04
519719.65	4258561.48	2648.29639	0.08507	0.21721	0.08731	0.21404	1.21E-04	3.48E-06	7.77E-06	3.57E-06	7.35E-06	1.4367E-04
519787.87	4258317.31	2647.03864	0.07723	0.31086	0.07898	0.30276	1.21E-04	3.16E-06	1.11E-05	3.23E-06	1.04E-05	1.4935E-04
519791.05	4258333.83	2645.42798	0.08014	0.31756	0.08206	0.30976	1.21E-04	3.28E-06	1.14E-05	3.36E-06	1.06E-05	1.5000E-04
519729.57	4258542.04	2643.51711	0.08616	0.22831	0.0883	0.22495	1.21E-04	3.53E-06	8.17E-06	3.62E-06	7.72E-06	1.4431E-04
519776.52	4258466.19	2638.99566	0.09323	0.29295	0.09619	0.28815	1.21E-04	3.82E-06	1.05E-05	3.94E-06	9.89E-06	1.4920E-04
519759.36	4258493.43	2633.91542	0.09061	0.26674	0.09332	0.26267	1.21E-04	3.71E-06	9.54E-06	3.82E-06	9.02E-06	1.4693E-04
519790.92	4258431.19	2632.59872	0.09356	0.3188	0.09636	0.31283	1.21E-04	3.83E-06	1.14E-05	3.95E-06	1.07E-05	1.5070E-04
519780.12	4258457.44	2627.22227	0.09334	0.29909	0.09627	0.29402	1.21E-04	3.82E-06	1.07E-05	3.94E-06	1.01E-05	1.4909E-04
519739.49	4258522.61	2624.15856	0.08722	0.2402	0.08948	0.23664	1.20E-04	3.57E-06	8.59E-06	3.68E-06	8.12E-06	1.4434E-04
519787.32	4258439.94	2623.05705	0.0935	0.31202	0.09636	0.30635	1.20E-04	3.83E-06	1.12E-05	3.95E-06	1.05E-05	1.4979E-04
519783.72	4258448.69	2622.52095	0.09345	0.30554	0.09636	0.30016	1.20E-04	3.83E-06	1.09E-05	3.95E-06	1.03E-05	1.4932E-04
519795.07	4258396.84	2621.38852	0.09014	0.32763	0.09266	0.32083	1.20E-04	3.69E-06	1.17E-05	3.79E-06	1.10E-05	1.5048E-04
519793.52	4258376.35	2603.58669	0.08671	0.32449	0.08904	0.31737	1.19E-04	3.55E-06	1.16E-05

519771.42	4258430.06	2399.8724	0.0866	0.28472	0.08911	0.2795	1.10E-04	3.55E-06	1.02E-05	3.65E-06	9.60E-06	1.3708E-04
519764.06	4258447.97	2399.81748	0.08638	0.27328	0.08894	0.26859	1.10E-04	3.54E-06	9.77E-06	3.64E-06	9.22E-06	1.3627E-04
519767.74	4258439.01	2395.58991	0.08648	0.27884	0.08901	0.27388	1.10E-04	3.54E-06	9.97E-06	3.64E-06	9.40E-06	1.3647E-04
519776.53	4258369.13	2382.50395	0.08067	0.292	0.08278	0.28569	1.09E-04	3.30E-06	1.04E-05	3.39E-06	9.81E-06	1.3625E-04
519719.45	4258512.99	2374.25395	0.07957	0.21762	0.08134	0.21436	1.09E-04	3.26E-06	7.78E-06	3.33E-06	7.36E-06	1.3066E-04
519775.89	4258394.95	2372.55906	0.08365	0.29165	0.08593	0.28575	1.09E-04	3.42E-06	1.04E-05	3.52E-06	9.81E-06	1.3603E-04
519739.32	4258483.82	2371.17797	0.08259	0.2403	0.08484	0.23657	1.09E-04	3.38E-06	8.60E-06	3.47E-06	8.12E-06	1.3236E-04
519773.44	4258352.38	2368.06425	0.07786	0.28625	0.07985	0.27979	1.09E-04	3.19E-06	1.02E-05	3.27E-06	9.61E-06	1.3494E-04
519742.98	4258474.93	2350.48331	0.08277	0.24486	0.0851	0.24098	1.08E-04	3.39E-06	8.76E-06	3.48E-06	8.27E-06	1.3174E-04
519729.36	4258493.56	2343.09279	0.08055	0.22837	0.08253	0.22493	1.07E-04	3.30E-06	8.17E-06	3.38E-06	7.72E-06	1.3006E-04
519772.23	4258403.84	2342.16965	0.08365	0.28582	0.08596	0.28018	1.07E-04	3.42E-06	1.02E-05	3.52E-06	9.62E-06	1.3424E-04
519772.9	4258377.96	2333.6632	0.08071	0.28615	0.08285	0.28012	1.07E-04	3.30E-06	1.02E-05	3.39E-06	9.62E-06	1.3361E-04
519746.64	4258466.04	2332.51522	0.08295	0.24945	0.08533	0.24542	1.07E-04	3.40E-06	8.92E-06	3.49E-06	8.43E-06	1.3125E-04
519768.57	4258412.72	2319.96276	0.08361	0.28014	0.08595	0.27474	1.06E-04	3.42E-06	1.00E-05	3.52E-06	9.43E-06	1.3283E-04
519750.29	4258457.16	2317.139	0.08311	0.25415	0.08552	0.24994	1.06E-04	3.40E-06	9.09E-06	3.50E-06	8.58E-06	1.3088E-04
519719.4	4258503.29	2316.07056	0.07855	0.21749	0.08032	0.21422	1.06E-04	3.22E-06	7.78E-06	3.29E-06	7.35E-06	1.2790E-04
519769.83	4258361.15	2309.39887	0.07789	0.2803	0.0799	0.27417	1.06E-04	3.19E-06	1.00E-05	3.27E-06	9.41E-06	1.3185E-04
519753.95	4258448.27	2305.51174	0.08323	0.2589	0.08564	0.25448	1.06E-04	3.41E-06	9.26E-06	3.51E-06	8.74E-06	1.3068E-04
519764.92	4258421.61	2303.79627	0.08351	0.27442	0.08586	0.2693	1.06E-04	3.42E-06	9.82E-06	3.52E-06	9.25E-06	1.3169E-04
519757.6	4258439.38	2297.40502	0.08332	0.26385	0.08572	0.2592	1.05E-04	3.41E-06	9.44E-06	3.51E-06	8.90E-06	1.3066E-04
519761.26	4258430.5	2296.18568	0.0834	0.26897	0.08577	0.26409	1.05E-04	3.41E-06	9.62E-06	3.51E-06	9.07E-06	1.3096E-04
519769.27	4258386.78	2293.43835	0.08074	0.28058	0.08291	0.2748	1.05E-04	3.31E-06	1.00E-05	3.39E-06	9.43E-06	1.3139E-04
519729.32	4258483.86	2283.80703	0.07952	0.22826	0.08152	0.22477	1.05E-04	3.26E-06	8.16E-06	3.34E-06	7.72E-06	1.2725E-04
519732.95	4258475.03	2262.28749	0.07969	0.23247	0.08178	0.22882	1.04E-04	3.26E-06	8.32E-06	3.35E-06	7.86E-06	1.2657E-04
519765.63	4258395.61	2260.89422	0.08074	0.27516	0.08292	0.26962	1.04E-04	3.31E-06	9.84E-06	3.40E-06	9.26E-06	1.2952E-04
519766.22	4258369.92	2260.71855	0.07795	0.27495	0.07998	0.26907	1.04E-04	3.19E-06	9.83E-06	3.27E-06	9.24E-06	1.2926E-04
519719.36	4258493.6	2258.25475	0.07756	0.21731	0.07933	0.21403	1.04E-04	3.18E-06	7.77E-06	3.25E-06	7.35E-06	1.2515E-04
519736.59	4258466.21	2243.60563	0.07987	0.23672	0.08203	0.23292	1.03E-04	3.27E-06	8.47E-06	3.36E-06	8.00E-06	1.2602E-04
519762	4258404.43	2234.38784	0.08068	0.26972	0.08287	0.26444	1.03E-04	3.30E-06	9.65E-06	3.39E-06	9.08E-06	1.2793E-04
519740.22	4258457.38	2227.21575	0.08004	0.24107	0.08226	0.23709	1.02E-04	3.28E-06	8.62E-06	3.37E-06	8.14E-06	1.2559E-04
519762.61	4258378.68	2220.06425	0.07799	0.26988	0.08004	0.26423	1.02E-04	3.19E-06	9.65E-06	3.28E-06	9.07E-06	1.2705E-04
519758.37	4258413.26	2214.66665	0.08057	0.26434	0.08277	0.25933	1.02E-04	3.30E-06	9.46E-06	3.39E-06	8.90E-06	1.2665E-04
519743.85	4258448.56	2214.54633	0.08019	0.24554	0.08244	0.24136	1.02E-04	3.28E-06	8.78E-06	3.38E-06	8.29E-06	1.2533E-04
519747.48	4258439.73	2206.4442	0.08033	0.25001	0.08258	0.24564	1.01E-04	3.29E-06	8.94E-06	3.38E-06	8.43E-06	1.2527E-04
519754.74	4258422.08	2205.28914	0.08051	0.25942	0.08272	0.25462	1.01E-04	3.30E-06	9.28E-06	3.39E-06	8.74E-06	1.2588E-04
519751.11	4258430.91	2203.2458	0.08043	0.25467	0.08267	0.25007	1.01E-04	3.29E-06	9.11E-06	3.38E-06	8.59E-06	1.2545E-04
519719.32	4258483.9	2201.16208	0.0766	0.21711	0.07838	0.2138	1.01E-04	3.14E-06	7.77E-06	3.21E-06	7.34E-06	1.2244E-04
519759.01	4258387.45	2184.93117	0.07798	0.26481	0.08005	0.25941	1.00E-04	3.19E-06	9.47E-06	3.28E-06	8.91E-06	1.2509E-04
519722.93	4258475.13	2180.00946	0.07678	0.2209	0.07865	0.21748	1.00E-04	3.14E-06	7.90E-06	3.22E-06	7.47E-06	1.2175E-04
519726.54	4258466.36	2160.15815	0.07695	0.22484	0.07891	0.22126	9.91E-05	3.15E-06	8.04E-06	3.23E-06	7.60E-06	1.2112E-04
519755.4	4258396.22	2156.92051	0.07794	0.25985	0.08001	0.25468	9.90E-05	3.19E-06	9.29E-06	3.28E-06	8.74E-06	1.2346E-04
519730.15	4258457.6	2143.41654	0.07712	0.22883	0.07915	0.22509	9.83E-05	3.16E-06	8.18E-06	3.24E-06	7.73E-06	1.2065E-04
519751.79	4258404.99	2136.22348	0.07787	0.25498	0.07995	0.25003	9.80E-05	3.19E-06	9.12E-06	3.27E-06	8.58E-06	1.2217E-04
519733.75	4258448.83	2129.43933	0.07729	0.23288	0.07935	0.22896	9.77E-05	3.16E-06	8.33E-06	3.25E-06	7.86E-06	1.2030E-04
519748.18	4258413.76	2122.55666	0.07778	0.25023	0.07986	0.2455	9.74E-05	3.18E-06	8.95E-06	3.27E-06	8.43E-06	1.2121E-04
519737.36	4258440.06	2119.6705	0.07744	0.23708	0.07953	0.23296	9.72E-05	3.17E-06	8.48E-06	3.26E-06	8.00E-06	1.2015E-04
519744.58	4258422.52	2115.61456	0.07769	0.24571	0.07977	0.24119	9.71E-05	3.18E-06	8.79E-06	3.27E-06	8.28E-06	1.2058E-04
519740.97	4258431.29	2114.83994	0.07757	0.24131	0.07966	0.237	9.70E-05	3.18E-06	8.63E-06	3.26E-06	8.14E-06	1.2023E-04
CONCUNIT ug/	m^3											
DEPUNIT g/m^	2											

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# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_HR013\stonebridge HR013                    12/31/2019
# AIRMIXT (1413:                                                                                          21:26:06
# MODELING OPTIONS USED: RegDRAFT CONC E UNY URBAN
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  2-RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
```

```
# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_HR013\stonebridge HR013                    12/31/2019
# AIRMIXT (1413:                                                                                          21:26:06
# MODELING OPTIONS USED: Reg DRAFT CONC E UNY URBAN  N
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
```

```
# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_HR013\stonebridge HR013                    12/31/2019
# AIRMIXT (1413:  G:                                                                                      21:26:06
# MODELING OPTI CNN USED: Reg DRAFT CONC E UNY URBA  N
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
```

```
# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_Mtb\Stonebridge HR013 12/31/2019
# AIRMIXT (1413:  G:                                                                                      21:26:06
# MODELING OPTI CNN USED: Reg DRAFT CONC E UNY URBA  N
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
```

```
# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_Mtb\Stonebridge HR013 12/31/2019
# AIRMIXT (1413:  G:                                                                                      21:26:06
# MODELING OPTI CNN USED: Reg DRAFT CONC E UNY URBA  N
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  2-RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
```

```
# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_Mtb\Stonebridge HR013 12/31/2019
# AIRMIXT (1413:  G:                                                                                      21:26:06
# MODELING OPTI CNN USED: Reg DRAFT CONC E UNY URBA  N
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  2-RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
```

```
# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_Mtb\Stonebridge HR013 12/31/2019
# AIRMIXT (1413:  G:                                                                                      21:26:06
# MODELING OPTI CNN USED: Reg DRAFT CONC E UNY URBA  N
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  2-RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
```

```
# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_Mtb\Stonebridge HR013 12/31/2019
# AIRMIXT (1413:  G:                                                                                      21:26:06
# MODELING OPTI CNN USED: Reg DRAFT CONC E UNY URBA  N
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  2-RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
```

```
# AIRMODO (1919: C:\Users\johnson\Desktop\1516001_Stonebridge_Mtb\Stonebridge HR013 12/31/2019
# AIRMIXT (1413:  G:                                                                                      21:26:06
# MODELING OPTI CNN USED: Reg DRAFT CONC E UNY URBA  N
# PLOT          PLU OF ANNUAL  VALUES AVERAGED ACROSS   5 YEARS FOR SO2  UNCD GRID UP-LINES
# FOR A         TOTAL OF 7442  2-RECEPTORS.
# FORMA         T: (5X,I7,X,I3,I2,I2,I6,2F8.2,2F8.2)
# X             Y              AVERAGE CONC   2SLEV   2HGL   2FLAG   AVE     GRP     NUM YRS   NET ID
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A.3 - Additional Air Quality and Greenhouse Gas Emissions Supporting Information

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Stonebridge Project Construction Parameters

Phase 1: Site Work for the entire site area to be developed, paving of internal streets/on-street parking areas, and construction of the Stormwater Treatment Area

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Demolition	Demolition	4/1/2021	4/28/2021	5	20
Site Preparation	Site Preparation	4/29/2021	5/12/2021	5	10
Grading	Grading	5/13/2021	6/23/2021	5	30
Stormwater Treatment Area	Building Construction	5/13/2021	9/29/2021	5	100
Paving	Paving	6/24/2021	9/29/2021	5	70

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
Demolition	Excavators	3	8	158	0.38
Demolition	Rubber Tired Dozers	2	8	247	0.4
Site Preparation	Rubber Tired Dozers	3	8	247	0.4
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.4
Grading	Scrapers	2	8	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37
Stormwater Treatment Area	Cranes	1	7	231	0.29
Stormwater Treatment Area	Forklifts	3	8	89	0.2
Stormwater Treatment Area	Generator Sets	1	8	84	0.74
Stormwater Treatment Area	Tractors/Loaders/Backhoes	3	7	97	0.37
Stormwater Treatment Area	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
Paving	Paving Equipment	2	8	132	0.36
Paving	Rollers	2	8	80	0.38

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number
Demolition	15	0	17
Site Preparation	18	0	0
Grading	20	0	138
Stormwater Treatment Area	337	132	0
Paving	15	0	0

Phase 2: Building Construction of Homes 1-21

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Building Construction	Building Construction	9/30/2021	8/3/2022	5	220
Paving	Paving	8/4/2022	8/17/2022	5	10
Architectural Coating	Architectural Coating	8/18/2022	8/31/2022	5	10

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.8	231	0.29
Building Construction	Forklifts	3	3.2	89	0.2
Building Construction	Generator Sets	1	3.2	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	2.8	97	0.37
Building Construction	Welders	1	3.2	46	0.45
Paving	Cement and Mortar Mixers	1	8	9	0.56
Paving	Pavers	1	8	130	0.42
Paving	Paving Equipment	1	8	132	0.36
Paving	Rollers	2	8	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number
Building Construction	8	2	0
Paving	15	0	0
Architectural Coating	2	0	0

Phase 3: Building Construction of Homes 22-42

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Building Construction	Building Construction	4/13/2021	2/14/2022	5	220
Paving	Paving	2/15/2022	2/28/2022	5	10
Architectural Coating	Architectural Coating	3/1/2022	3/14/2022	5	10

OffRoad Equipment

Phase Name	Offroad Equipment Type	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2.8	231	0.29
Building Construction	Forklifts	3.2	89	0.2
Building Construction	Generator Sets	3.2	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2.8	97	0.37
Building Construction	Welders	3.2	46	0.45
Paving	Cement and Mortar Mixers	8	9	0.56
Paving	Pavers	8	130	0.42
Paving	Paving Equipment	8	132	0.36
Paving	Rollers	8	80	0.38
Paving	Tractors/Loaders/Backhoes	8	97	0.37
Architectural Coating	Air Compressors	6	78	0.48

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number
Building Construction	8	2	0
Paving	15	0	0
Architectural Coating	2	0	0

Phase 4: Building Construction of Homes 43-63

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Building Construction	Building Construction	10/25/2021	8/26/2022	5	220
Paving	Paving	8/27/2022	9/9/2022	5	10
Architectural Coating	Architectural Coating	9/10/2022	9/23/2022	5	10

OffRoad Equipment

Phase Name	Offroad Equipment Type	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2.8	231	0.29
Building Construction	Forklifts	3.2	89	0.2
Building Construction	Generator Sets	3.2	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2.8	97	0.37
Building Construction	Welders	3.2	46	0.45
Paving	Cement and Mortar Mixers	8	9	0.56
Paving	Pavers	8	130	0.42
Paving	Paving Equipment	8	132	0.36
Paving	Rollers	8	80	0.38
Paving	Tractors/Loaders/Backhoes	8	97	0.37
Architectural Coating	Air Compressors	6	78	0.48

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number
Building Construction	8	2	0
Paving	15	0	0
Architectural Coating	2	0	0

Phase 5: Building Construction of Homes 64-84

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Building Construction	Building Construction	5/6/2022	3/9/2023	5	220
Paving	Paving	3/10/2023	3/23/2023	5	10
Architectural Coating	Architectural Coating	3/24/2023	4/6/2023	5	10

OffRoad Equipment

Phase Name	Offroad Equipment Type	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2.8	231	0.29
Building Construction	Forklifts	3.2	89	0.2
Building Construction	Generator Sets	3.2	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2.8	97	0.37
Building Construction	Welders	3.2	46	0.45
Paving	Cement and Mortar Mixers	8	9	0.56
Paving	Pavers	8	130	0.42
Paving	Paving Equipment	8	132	0.36
Paving	Rollers	8	80	0.38
Paving	Tractors/Loaders/Backhoes	8	97	0.37
Architectural Coating	Air Compressors	6	78	0.48

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number
Building Construction	8	2	0
Paving	15	0	0
Architectural Coating	2	0	0

Phase 6: Building Construction of Homes 85-105

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Building Construction	Building Construction	11/17/2022	9/20/2023	5	220
Paving	Paving	9/21/2023	10/4/2023	5	10
Architectural Coating	Architectural Coating	10/5/2023	10/18/2023	5	10

OffRoad Equipment

Phase Name	Offroad Equipment Type	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2.8	231	0.29
Building Construction	Forklifts	3.2	89	0.2
Building Construction	Generator Sets	3.2	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2.8	97	0.37
Building Construction	Welders	3.2	46	0.45
Paving	Cement and Mortar Mixers	8	9	0.56
Paving	Pavers	8	130	0.42
Paving	Paving Equipment	8	132	0.36
Paving	Rollers	8	80	0.38
Paving	Tractors/Loaders/Backhoes	8	97	0.37
Architectural Coating	Air Compressors	6	78	0.48

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number
Building Construction	8	2	0
Paving	15	0	0
Architectural Coating	2	0	0

Stonebridge Project Additional Construction Parameters

Estimation of Demolition Debris

Buildings

Debris Generation for Buildings (cy)

Approximate Size	Area (sq ft)	~H (ft)	Stories	Cubic Feet	/27	*0.33	Cubic Yards	
Existing building	1,824	15	1	27360	1013.333	334.4	334	
Total Building	1,824						334	cy

Removal of Hardscape

Approximate Size	1	sq-feet	Hardscape	110467
Thickness	4	inches	Softscape	109484
Volume	0	cu-ft		
Volume	0	cy		

Conversion Weight of Impervious: 2,700 lbs/cy

Weight of Impervious: 0.0166667 tons of debris

Conversion of Tons of Debris to Cubic Yards

Conversion Factor	1 cy = 0.5 tons	
Impervious	0.033333333	cy

Total

Removal of surfaces	0	cy
Total Building	334	cy
Total	**334**	**cy**

Removal of surfaces	0	tons of debris
Total Building	167	tons of debris
Total	**167**	**tons of debris**

Notes: cy = cubic yards; ft= feet; ~ = approximate; lbs = pounds; sq-feet = square feet; cu-ft = cubic feet

Sources of factors:

Federal Emergency Management Agency (FEMA). 2010. Debris Estimating Field Guide. September. Website: https://www.fema.gov/pdf/government/grant/pa/fema_329_debris_estimating.pdf. Accessed February 2019.

DownEaster. 2015. Material Weight – Pounds per Cubic Yard. June 9. Website: https://downeastermfg.com/wp-content/uploads/2015/.../Cubic_Yardage_Chart-D.pdf. Accessed February 2019.

	Duration			
	CalEEMod Defaults	FCS Revisions	Difference	Data Entry Fields Look Like This-->
Building Construction	440	1,100	660	Everything else is auto calculated

CalEEMod Defaults

Building Construction

Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours
Cranes	1	7	231	0.29	3,080
Forklifts	3	8	89	0.20	10,560
Generator Sets	1	8	84	0.74	3,520
Tractors/Loaders/Backhoes	3	7	97	0.37	9,240
Welders	1	8	46	0.45	3,520
				Total	**29,920**

FCS Revisions

Building Construction

Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours	Cross-Check Goal HP Hours	Cross-Check Difference
Cranes	1	2.80	231	0.29	3,080	3,080	-
Forklifts	3	3.20	89	0.20	10,560	10,560	-
Generator Sets	1	3.20	84	0.74	3,520	3,520	-
Tractors/Loaders/Backhoes	3	2.80	97	0.37	9,240	9,240	-
Welders	1	3.20	46	0.45	3,520	3,520	-
				Total	**29,920**	29,920	-

Stonebridge Project CO2 Intensity Factor

PG&E Electricity Emissions Factors

Year	lbs CO_2e/MWh
2020-2029	390.65
2030	292.24

2017 Electricity Emissions Factor

Emissions Factors	t/kWh	Share of Portfolio	t/kWh	t/MWh	lbs/MWh
RPS sources	-	33%	-		
Natural Gas	0.000459	20%	0.00009170		
Nuclear	0.000002	27%	0.00000043		
Coal	0.001037	0%	-		
Unspecified Sources	0.000427	20%	0.00008550		
Total	-	100%	0.00017763	0.18	**391.60**

Power Content Label

PG&E 2017	%	Source
RPS sources	33%	*California Energy Commission (CEC). 2018. Pacific Gas and Electric Company Power Content Label 2008. July. Website: https://ww2.energy.ca.gov/pcl/labels/2017_labels/PG_and_E_2017_PCL.pdf. Accessed Janaury 15, 2020.*
Natural Gas	20%	
Nuclear	27%	
Coal	0%	
Unspecified Sources	20%	
Total	100%	

Natural Gas Facility Emissions Factor Calculation

Natural Gas Emissions Factor

	CO_2	CH_4	N_2O	CO_2e	Source
kg per mmBtu	53.06	-	-	-	*Environmental Protection Agency (EPA). 2018. Emission Factors for Greenhouse Gas Inventories. March 9. Website: https://www.epa.gov/sites/production/files/2018-03/documents/emission-factors_mar_2018_0.pdf. Accessed January 15, 2020.*
g per mmBtu	53,060	1.00	0.10	-	
t per mmBtu	0.05	0.00	0.00	-	Calculated
t CO_2e per mmBtu	0.05	0.00	0.00	0.05	Calculated
t CO_2e per GJ	-	-	-	0.06	Calculated

Heat Rates

Value	Units	Source	Notes
7,755	btu/kWh	*California Energy Commission (CEC). 2017. Thermal Efficiency of Natural Gas-Fired Generation in California: 2016 Update. February. Website: http://www.energy.ca.gov/2017publications/CEC-200-2017-003/CEC-200-2017-003.pdf. Accessed January 15, 2020.*	Table 1, State Average w/o Cogeneration (per last paragraph on pg 4)
0.00818196	GJ/kWh	Converted in Google: GJ per btu	

Natural Gas Facility Emissions Factor

Natural gas emissions factor	0.06	t CO_2e per GJ
Natural gas facility heat rate	0.00818196	GJ/kWh
Natural Gas Facility Emissions Factor	0.000458507	t CO_2e per kWh

Nuclear Emissions Factor

Nuclear GHG Emissions	0.40	gCO2e/MJ	*California Air Resource Board. 2009. Detailed California-Modified GREET Pathway for California Average and Marginal Electricity. February 27. Website: https://www.arb.ca.gov/fuels/lcfs/022709lcfs_elec.pdf. Accessed January 15, 2020.*
Nuclear Emissions Factor	0.00000159	t/kWh	

Unspecified Electricity Source Emissions Factor Calculation

ARB California GHG Inventory Electricity Emissions Factors

2014	CO_2	CH_4	N_2O	CO_2e	Units	Source
Pacific Northwest (PNW)	427	0.008117	0.00094388	427.4774042	g/kWh	*California Air Resource Board. 2016. Annex 1B. Electricity Production - Imports (IPCC 1A1a) to the Technical Support Document for California's 2000-2014 Greenhouse Gas Emission Inventory. March 30. Website: https://www.arb.ca.gov/cc/inventory/doc/methods_00-14/annex_1b_electricity_production_imports.pdf. Accessed January 15, 2020.*
Pacific Southwest (PSW)	427	0.008117	0.00094388	427.4774042	g/kWh	
PNW and PSW	-	-	-	0.000427477	t/kWh	-

Other/Unspecified Emissions Factor

Unspecified Electricity Emissions Factor	0.000427	t CO_2e per kWh

Coal Electricity Source Emissions Factor Calculation

ARB California GHG Inventory Electricity Emissions Factors

2007	CO_2	CH_4	N_2O	CO_2e	Units	Source
Coal Electricity Source Emissions Factor Calculation	1033	0.011	0.0153	1037.3625	g/kWh	*California Air Resource Board. 2016. Annex 1B. Electricity Production - Imports (IPCC 1A1a) to the Technical Support Document for California's 2000-2014 Greenhouse Gas Emission Inventory. March 30. Website: https://www.arb.ca.gov/cc/inventory/doc/methods_00-14/annex_1b_electricity_production_imports.pdf. Accessed January 15, 2020.*
Total	-	-	-	0.001037363	t/kWh	-

Coal Emissions Factor

Unspecified Electricity Emissions Factor	0.001037	t CO_2e per kWh

2020-2029 and 2030 Electricity Emissions Factors

Non-RPS Energy	Year	PG&E RPS Position	Notes	Source
89.0%	2008	11.0%		*California Energy Commission (CEC). 2018. Power Content Label 2008 PG&E Power Mix. Website: https://ww2.energy.ca.gov/pcl/labels/2008_labels/PG%20and%20E%20pcl%202008.pdf. Accessed January 15, 2020.*
67.0%	2020-2029	33.0%		
50.0%	2030	50.0%		

Estimated Power Content Label Sources

PG&E	2017	Share of Non-RPS in 2017	2020-2029	Share of Non-RPS in 2020-2029	2030
RPS	33.0%	-	33.0%	-	50.0%
Natural Gas	20.0%	22%	20.0%	29.9%	14.9%
Nuclear	27.0%	30%	27.0%	40.3%	20.1%
Coal	0.0%	0%	0.0%	0.0%	0.0%
Unspecified Sources	20.0%	22%	20.0%	29.9%	14.9%
Total	100%	75%	100%	100.0%	100%

2020-2029

Emissions Factors	t/kWh	Share of Portfolio	t/kWh	t/MWh	lbs/MWh
RPS	-	33.0%	-		
Natural Gas	0.000459	20.0%	0.000092		
Nuclear	0.000002	27.0%			
Coal	0.001037	0.0%	-		
Unspecified	0.000427	20.0%	0.000085		
Total	-	100.0%	0.000177	0.18	**390.65**

2030					
Emissions Factors	**t/kWh**	**Share of Portfolio**	**t/kWh**	**t/MWh**	**lbs/MWh**
RPS	-	50.0%	-		
Natural Gas	0.000459	14.9%	0.000068		
Nuclear	0.000002	20.1%	0.000000		
Coal	0.001037	0.0%	-		
Unspecified	0.000427	14.9%	0.000064		
Total	-	100.0%	0.000133	0.13	**292.24**

CONVERSION FACTORS

Conversions

GJ	mmBtu
1	0.947817
g	kg
1	1,000
g	t
1	0.000001
lb	t
2,204.62	1
kW	MW
1	0.001

GWP Factors

CO_2	1
CH_4	28
N_2O	265

ABBREVIATIONS

RPS	Renewable Portfolio Standard
GWP	Global Warming Potential
CO2e	Carbon Dioxide Equivalent
CO_2	Carbon Dioxide
CH_4	Methane
N_2O	Nitrous Oxide
lbs CO_2e/MWh	Pounds Carbon Dioxide Equivalent/Mega-Watt Hour
t/kWh	tonnes/kilo-Watt hour
t/MWh	tonnes/Mega-Watt Hour
lbs/MWh	pounds/Mega-Watt Hour
kg per mmBtu	kilograms per million British Thermal Unit
g per mmBtu	grams per million British Thermal Unit
t per mmBtu	tonnes per million British Thermal Unit
t CO_2e per mmBtu	tonnes Carbon Dioxide Equivalent per million British Thermal Unit
t CO_2e per GJ	tonnes Carbon Dioxide Equivalent per Gigajoule
btu/kWh	British Thermal Unit/kilo-Watt hour
GJ/kWh	Gigajoule/kilo-Watt hour
t CO_2e per kWh	tonnes Carbon Dioxide Equivalent per kilo-Watt hour
gCO2e/MJ	grams Carbon Dioxide Equivalent/Megajoule
t/kWh	tonnes/kilo-Watt hour
g/kWh	grams/kilo-Watt hour

Version: July 2018

2017 POWER CONTENT LABEL

Pacific Gas and Electric Company

ENERGY RESOURCES	Power Mix	2017 CA Power Mix**
Eligible Renewable	**33%**	**29%**
Biomass & biowaste	4%	2%
Geothermal	5%	4%
Eligible hydroelectric	3%	3%
Solar	13%	10%
Wind	8%	10%
Coal	**0%**	**4%**
Large Hydroelectric	**18%**	**15%**
Natural Gas	**20%**	**34%**
Nuclear	**27%**	**9%**
Other	**0%**	**<1%**
Unspecified sources of power*	**2%**	**9%**
TOTAL	**100%**	**100%**

* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.
** Percentages are estimated annually by the California Energy Commission based on the electricity sold to California consumers during the identified year.

For specific information about this electricity product, contact:	**Pacific Gas and Electric Company** **415-973-0640**
For general information about the Power Content Label, please visit:	http://www.energy.ca.gov/pcl/
For additional questions, please contact the California Energy Commission at:	844-454-2906

Bay Area Air Quality Management District

Roadway Screening Analysis Calculator

County specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.

INSTRUCTIONS:

Input the site-specific characteristics of your project by using the drop down menu in the "Search Parameter" box. We recommend that this analysis be used for roadways with 10,000 AADT and above.

• County: Select the County where the project is located. The calculator is only applicable for projects within the nine Bay Area counties.

• Roadway Direction: Select the orientation that best matches the roadway. If the roadway orientation is neither clearly north-south nor east-west, use the highest values predicted from either orientation.

• Side of the Roadway: Identify on which side of the roadway the project is located.

• Distance from Roadway: Enter the distance in feet from the nearest edge of the roadway to the project site. The calculator estimates values for distances greater than 10 feet and less than 1000 feet. For distances greater than 1000 feet, the user can choose to extrapolate values using a distribution curve or apply 1000 feet values for greater distances.

• Annual Average Daily Traffic (ADT): Enter the annual average daily traffic on the roadway. These data may be collected from the city or the county (if the area is unincorporated).

When the user has completed the data entries, the screening level PM2.5 annual average concentration and the cancer risk results will appear in the Results Box on the right. Please note that the roadway tool is not applicable for California State Highways and the District refers the user to the Highway Screening Analysis Tool at: http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx.

Notes and References listed below the Search Boxes

Search Parameters

County	Sonoma	
Roadway Direction	North-South	
Side of the Roadway	East	
Distance from Roadway	10	feet
Annual Average Daily Traffic (ADT)	19,408	

Results

Sonoma County

NORTH-SOUTH DIRECTIONAL ROADWAY

PM2.5 annual average

0.453 ($\mu g/m^3$)

Cancer Risk

17.45 (per million)

Data for Sonoma County based on meteorological data collected from Santa Rosa in 2005

Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

Adjusted cancer risk calculation: 17.45 x 1.3744 = 23.98 (per million)

The cancer risk calculated estimated using the BAAQMD Roadway Screening Analysis Calculator was adjusted by a correction factor of 1.3744 to incorporate the latest OEHHA guidance. Source of 1.3744 correction factor: BAAQMD recommendation confirmed through personal communication with BAAQMD Environmental Planner, Areana Flores, on January 8, 2020.

Stonebridge Project Solar Calculation

MINIMUM REQUIREMENTS FOR SINGLE-FAMILY HOMES AS PER TITLE 24, PART 6

		Unit	Source
Climate zone	4		*a.*
Low Square Footage	1583	Sq. Ft	
High Square Footage	1298	Sq. Ft	
Average Square Footage	1441	Sq. Ft	
CFA*	2,273	Sq. Ft	
A	0.586		*a.*
NDwell	105	No.	
B	1.21		*a.*
Annual Photvoltaic Electric Output	128.38	kW	
kW size per Dwell	**1.22**	kW	
Energy production factor**	1800	kWh/kW-year	*b.*
Estimated kWh per year per system	2200.83	kWh/year	
Total kWh generated per year	**231,087.56**	kWh/year	

$kW_{PV} = (CFA \times A)/1000 + (NDwell \times B)$

WHERE:

kW_{PV} = kWdc size of the PV system

CFA = Conditioned floor area

NDwell = Number of dwelling units

A = Adjustment factor from Table 150.1-C

B = Dwelling adjustment factor from Table 150.1-C

W = watt; kW = kilo watt; kWh = kilo-watt hour; Sq. Ft = square feet

* Conditioned floor area (CFA) is the total floor area (in square feet) of enclosed conditioned space on all floors of a building, as measured at the floor level of the exterior surfaces of exterior walls enclosing the conditioned space CFA value listed above is based on high square footage estimate of floor plan range, consistent with construction assumptions.

** Energy production factor based on U.S. Department of Energy, Energy Efficiency and Renewable Energy: A Consumer's Guide Get Your Power from the Sun: https://www.nrel.gov/docs/fy04osti/35297.pdf; pdf page 12

Sources

a. California Energy Commission (CEC). 2018. 2019 Standards Part 6 Chapter 8 (Section 150.1) Revised Express Terms. April 23. Website: https://efiling.energy.ca.gov/GetDocument.aspx?tn=223257-3. Accessed January 9, 2020.

b. U.S Dept of Energy, Energy Efficiency and Renewable Energy. 2003. A Consumer's Guide Get Your Power From The Sun, pdf pg 12. December. Website: https://www.nrel.gov/docs/fy04osti/35297.pdf. Accessed January 9, 2020.

c. California Energy Commission (CEC). 2015. 2016 Building Energy Efficiency Standards Reference Ace Tool, Chapter 1.8 Conditioned Floor Area. June. Website: https://energycodeace.com/site/custom/public/reference-ace-2016/index.html#!Documents/18conditionedfloorarea.htm. Accessed January 9, 2020.

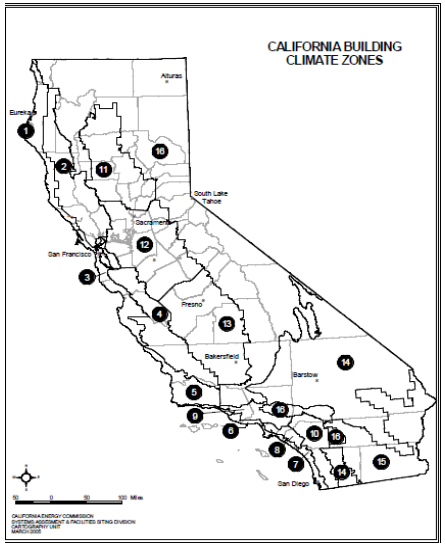
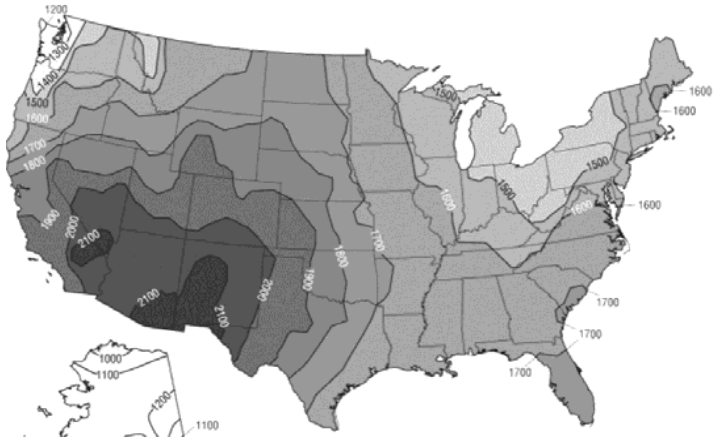


Table 150.1-C – CFA and Dwelling adjustment Factors

Climate Zone	A - CFA	B - Dwelling Units
1	0.793	1.27
2	0.621	1.22
3	0.628	1.12
4	0.586	1.21
5	0.585	1.06
6	0.594	1.23
7	0.572	1.15
8	0.586	1.37
9	0.613	1.36
10	0.627	1.41
11	0.836	1.44
12	0.613	1.40
13	0.894	1.51
14	0.741	1.26
15	1.56	1.47
16	0.59	1.22



1.8 Conditioned Floor Area

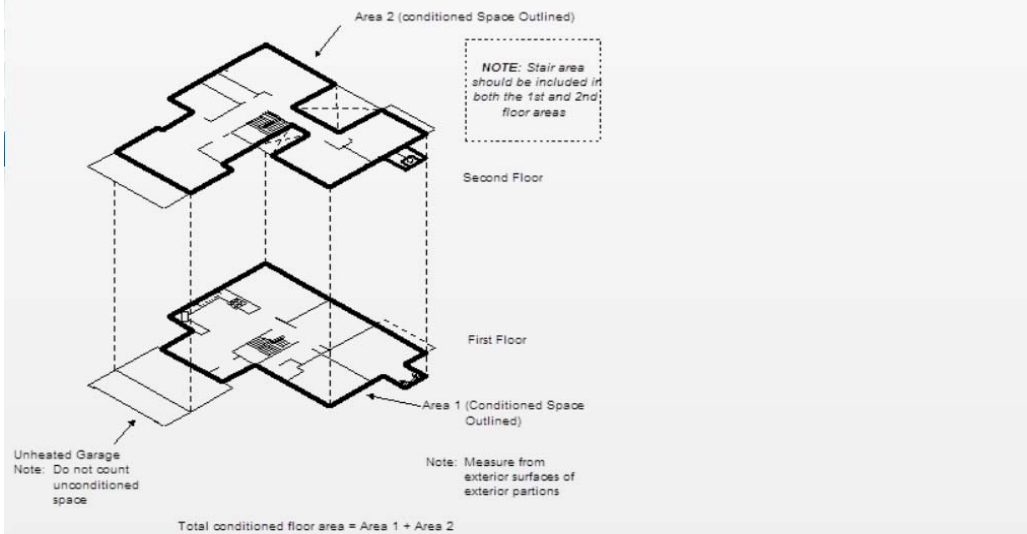
Conditioned floor area (CFA) is the total floor area (in square feet) of enclosed conditioned space on all floors of a building, as measured at the floor level of the exterior surfaces of exterior walls enclosing the conditioned space. [§100.1] This term is also referred to in the Energy Standards simply as the floor area.

This is an important value for compliance since annual energy use is divided by this value to obtain the energy budget. In the prescriptive package, the maximum fenestration and west facing fenestration area requirements are expressed as a percentage of this value.

CFA is calculated from the plan dimensions of the building, including the floor area of all conditioned and indirectly conditioned space on all floors. It includes lofts and mezzanines but does not include covered walkways, open roofed-over areas, porches, pipe trenches, exterior terraces or steps, chimneys, roof overhangs, or parking garages. Unheated basements or closets for central gas forced air furnaces are also not included, unless shown to be indirectly conditioned.

The floor area of an interior stairway is determined as the CFA beneath the stairs and the tread area of the stairs themselves. See figure 1-2 below for an example of how CFA is calculated.

Figure 1-2: Total Conditioned Floor Area



Stonebridge Project Trip Generation

As per Traffic Impact Study*		Unit
Number of Dwellings:	120	dwelling units
Proposed Trips:	1,133	trips
Trip Generation Rate:	9.44	trips per dwelling unit

For Air Quality Analysis		
Number of Dwellings:	105	dwelling units
Trips:	1,133	trips
Trip Generation Rate:	10.79	trips per dwelling unit

*Source: W-Trans. 2019. Traffic Impact Study for the 2220 Fulton Road Project. October 22.
Note: The project would develop 105 single-family residential units. The Traffic Impact Study prepared for the project considered 120 single-family residential units for analysis of traffic-related impacts. To be consistent with the project-specific Traffic Impact Study, the total trips generated by 120 units was used to estimate emissions presented in the air quality analysis. Consistent with the Project Description, all other assumptions and analysis for air quality considers 105 single-family residential units. The use of total trips estimated for 120 single-family residential units represents a conservative approach to estimating emissions from operations of the project.

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