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Introduction

A detail GPS gravity survey designated as Browns 2 Gravity Survey has been carried out in an area approximately 60 kilometres south of Darwin in Northern Territory as infill on a previous survey conducted in December 2002. This survey was conducted over 6 days from 15 May 2003 to 20 May 2003 on behalf of Phelps Dodge Exploration.

The proposed survey was for 5 lines coincident with MGA94 with a station spacing of 25 metres. The lines proposed ran from 8561500N to 8564000N along the following eastings: 716200, 716450, 716850, 717250 and 71745 for a total of 505 stations. Due to access issues and a dam on line, the completed survey comprised 439 stations. There were 11 observations repeated for quality control purposes and a further 40 stations from the original survey also reobserved but since no effort was made to reoccupy the original positions, these have not been included as repeats.

The Bouguer anomaly processing has been performed using a country rock density of 2.67 g/cc.

The data presented with this report includes that from the original survey. Note that the original survey station numbering has been modified to conform to the current survey (see the section on station numbering below).

Figure 1 below shows the location of the survey area.



Figure 1. Location Diagram

GPS Observations and Processing

Carrier phase GPS data has been collected using *Trimble 4000* series Geodetic receivers.

Measurements for detail gravity observations have been made using Real Time Kinematic (RTK) techniques giving horizontal and vertical precisions of at least 5 cm.

RTK processing has been completed using Trimble TDC1 firmware and TRIMMAP Version 6.50 software.

The GPS horizontal coordinates (WGS84 datum) have been adopted from the GDA94 values using a nul transformation process. The WGS84/GDA94 Latitude and Longitude have then been converted into MGA94 Zone 52 grid coordinates using TRIMMAP Version 6.50 software.

The GPS ellipsoidal heights (WGS84 datum) have been corrected to orthometric heights (AHD) using the AusGeoid98 geoid model for the control and the gravity stations.

Details of Horizontal and Vertical control are given in the sections below.

Gravity Observations

Gravity measurements have been made using *Scintrex CG3 Autograv* instruments. The instrument number 403244 was used in this project.

Readings of 120 seconds were taken at base station. Readings of 40 seconds were taken at all other gravity survey points.

Base station readings were taken at the beginning of the day and at the end of the day's fieldwork.

The CG3 instrument applies an instrument drift correction to its final gravity reading. Any residual drifts between base station readings are corrected by the gravity post processing software. The instrument also applies Earth Tide Correction to its final gravity reading at each station. The instrument calibration constants are contained in the daily gravity data files.

Survey Control

No new local gravity/GPS base stations were established for this survey. See the report for the December 2002 survey for details of the fixing of HS000201.

Control information (**WGS84 heights have been derived using AusGeoid98**):

BROWNS 2 SURVEY / GRAVITY CONTROL							
GDA94/WGS 84				MGA94 Zone 52		AHD	Isogal84
Station	Latitude	Longitude	Height	Easting	Northing	Height	Gravity mgal
HS000201	-12° 59' 10.98059"	131° 00' 56.85400"	146.253	718648.053	8563505.482	96.572	978285.343

Point Numbering and Marking

An 8 digit point number is used to identify each gravity station. The first 4 digits indicate the line number. The second 4 digits indicate the station number

The grid the lines are south-north and the 8 digits are constructed from the planned AMG coordinates for each gravity station using

Line No = (AMG E– 700000) / 10 Stn No = AMG N– 8560000

eg. Planned gravity station AMG coordinates

716200.000E

8563275.000E

Line No = 1620

Station No = 3275

i.e. Pt No = 16203275

Station numbers have not been expanded in the processed data.

Note that the original survey used a station interval of 50 metres so the station numbers were derived differently. The original station numbers have been altered by dropping the leading 6 and adding a trailing 0.

The gravity stations have not been marked in the field.

Gravity Processing

The gravity values for this survey are related to the *Australian Gravity Base Station Network* using the *Isogal84 (IGSN 71)* values at known Gravity Stations as provided by DMR.

Note that all gravity values shown in these surveys are expressed in units of milligals.

The field gravity observations have been processed using standard formulae and constants to produce a Bouguer Anomaly for each gravity station.

The meter reading as recorded in the raw Scintrex data file is corrected for instrument tilts, meter drift and Earth Tide. Post processing corrections are detailed below.

Drift

The residual drift between base station readings is calculated for each station reading proportionately by time. This is the drift value shown in the processing output.

$$\text{Drift} = [(t_1 - t_n) ((b_2 - b_1) / (t_2 - t_1))]$$

- t_n = time of meter reading at each station
- b_1 = base meter reading prior to station reading
- t_1 = time of base reading b_1
- b_2 = base meter reading after station reading
- t_2 = time of base reading b_2

Obs mgal

This is the observed gravity value in milligals.

$$\text{Obs} = b_g + (r_n - \text{drift}) - b_1$$

- b_g = base stn gravity value (Isogal84)
- r_n = meter reading at each station as shown in the CG3 .dat file
- drift = residual drift correction as shown above
- b_1 = base meter reading prior to station reading

Anom

This is the difference between the observed gravity and the theoretical gravity value at each station. The theoretical value is calculated using the *1967 International Gravity Formula*.

$$\text{Anom} = \text{Obs} - g_{th}$$

Obs = observed gravity as explained above

$$g_{th} = 978031.8 (1 + 0.0053024 \sin^2\phi - 0.0000059 \sin^2 2\phi)$$

ϕ = WGS84 Latitude

Freeair corrn

The freeair correction is calculated using

$$\text{Freeair corrn} = 0.3086 H$$

H = height above sea level (AHD height)

Bouguer corrn

$$\text{Bouguer corrn} = -0.04191 \rho H$$

ρ = density (2.67 g/cc used for this survey)

H = height above sea level (AHD height)

Bouguer Anom

$$\text{Bouguer Anom} = \text{Anom} + \text{Freeair corrn} + \text{Bouguer corrn}$$

Results Formats

Printed results of the gravity processing (with Bouguer corrections at density 2.67 g/cc) are included in the Appendix of this report. The results are also supplied in digital form on floppy disk with the following of files being supplied:

ALLCOR.XYZ ALLGEO.XYZ ALLCSV.CSV

Field gravity observation files with the extension .DAT and .DC are also supplied in a separate subdirectory named OBS.

ALLCOR.XYZ format

This is a *GEOSOFT* compatible XYZ (space delimited columns) file. The data is sorted by Day then Line and Stn number. The column order is as follows:

MGA E	MGA N	Line	Stn	drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
					meter	mgal		corr	corr	anom	(AHD)
											(2.67)

ALLGEO.XYZ format

This is a *GEOSOFT* format XYZ (space delimited columns) file. The data is sorted into Line and Stn number suitable for profiling. The column order is as follows:

Line	Stn	MGA E	MGA N	drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
					meter	mgal		corr	corr	anom	(AHD)
											(2.67)

ALLCSV.CSV Format

This is a Comma Separated Variable format file. This format facilitates data import into spreadsheet and database software. Each record (line) contains the following data fields:

Pt Number, Line No, Station No, Date, Day Number, Local Time, WGS Latitude, WGS Longitude, WGS Height, MGA East, MGA North, AHD Height, Meter reading, Meter reading standard deviation, Earth Tide Correction, drift correction, corrected meter reading, gravity difference (mgal) from base, observed gravity (mgals), gravity anomaly, freeair correction, Bouguer correction (2.67), Bouguer anomaly

***.DAT**

These are the raw data files from the *Scintrex* CG3 gravimeter. There is a separate file for each day's data and for each field party. The files are identified by the Julian day number (001 = Jan 1st) with the prefix G. eg. G139 = day 139 (19th May).

***.DC**

These are the GPS Real Time Kinematic Data Collector files. They are ASCII format files containing the GPS vectors from the base station. The data is structured in a Trimble format (DC file Version 4).

PRODUCTION LOG

Browns 2 Gravity Survey Production Log

Date	GPS Day	Observed	Repeats	Comments
14-May-03	D134			Mobilise to Rum Jungle
15-May-03	D135	68	0	Commence gravity survey
16-May-03	D136	102	3	Continue gravity survey
17-May-03	D137	83	2	Continue gravity survey
18-May-03	D138	105	2	Continue gravity survey
19-May-03	D139	58	3	Continue gravity survey
20-May-03	D140	23	2	Complete gravity survey
21-May-03	D141			Depart Rum Jungle
	Total	439	12	

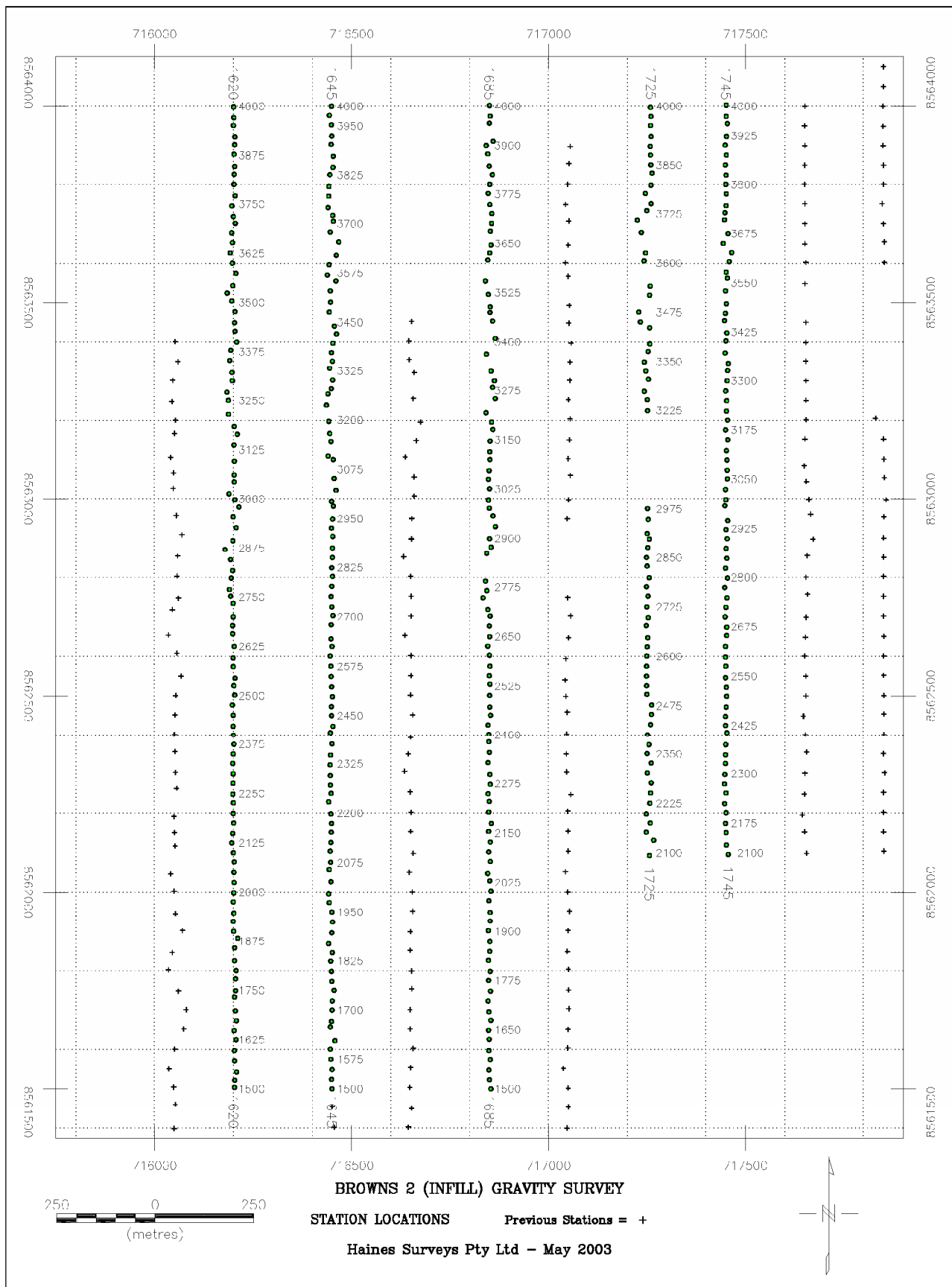
Repeat Observation Results

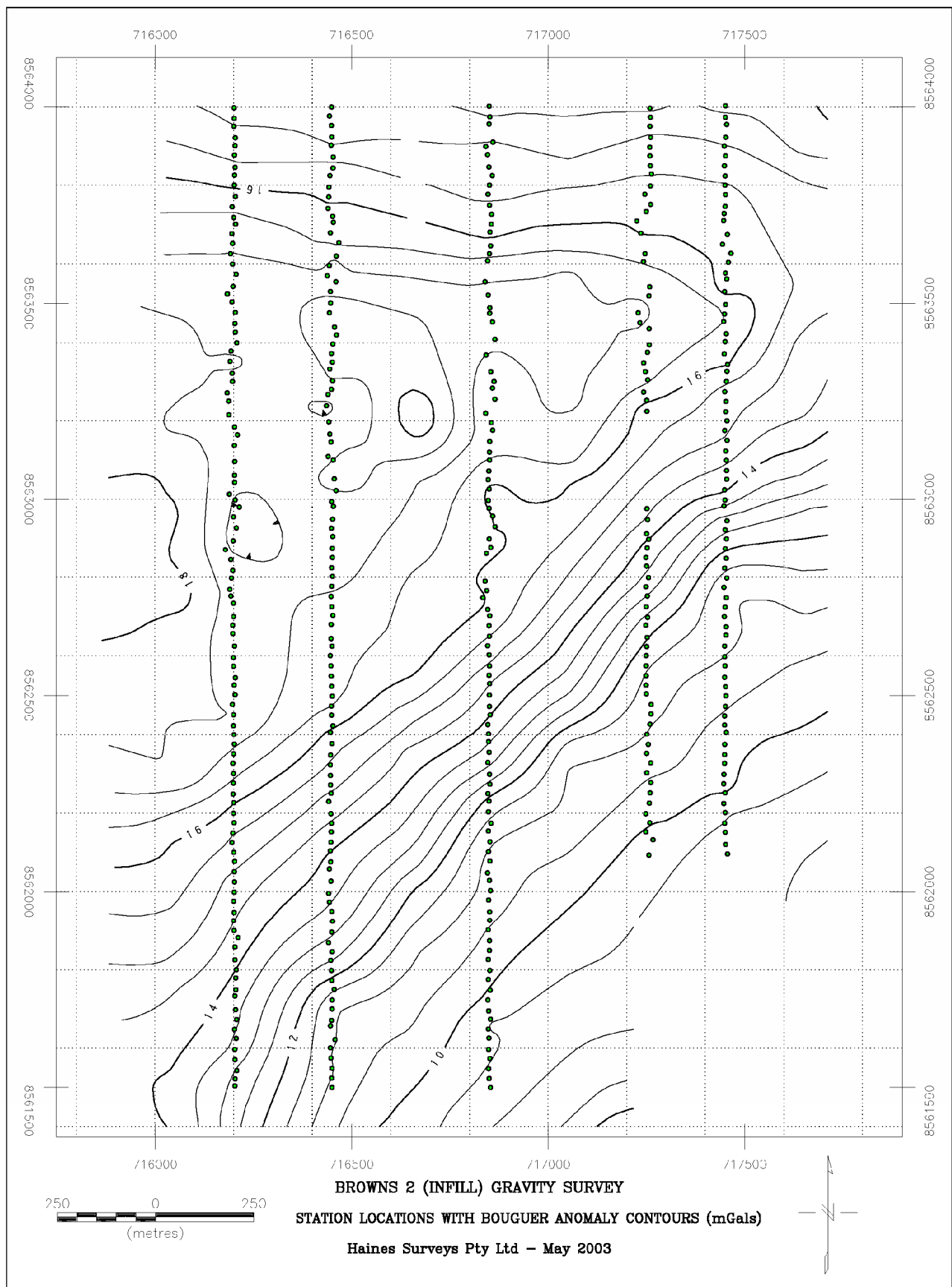
Pt	Day1	Day2	Diff E	Diff N	Diff Hgt	Diff g	Diff BAn	Vector	Abs Diff g	Abs Diff BAn
16202500	135	136	-0.391	-0.191	-0.016	-0.015	-0.018	0.435	0.015	0.018
16451850	135	136	-0.065	0.005	0.004	0.002	0.003	0.065	0.002	0.003
16452500	135	136	0.329	-0.014	0.056	-0.010	0.001	0.329	0.010	0.001
16452850	136	137	-0.063	-0.074	-0.011	0.005	0.002	0.097	0.005	0.002
16852700	136	137	0.019	0.306	0.000	-0.020	-0.020	0.307	0.020	0.020
16202850	136	139	-0.083	0.197	-0.113	0.024	0.002	0.214	0.024	0.002
17252500	137	138	-0.031	0.011	-0.039	-0.004	-0.012	0.033	0.004	0.012
17253850	137	138	-0.239	-0.107	-0.011	-0.022	-0.025	0.262	0.022	0.025
17453475	138	139	0.000	0.000	0.000	-0.036	-0.036	0.000	0.036	0.036
16203525	139	140	0.676	0.292	-0.033	-0.002	-0.008	0.736	0.002	0.008
16203775	139	140	0.184	0.013	-0.048	-0.011	-0.021	0.184	0.011	0.021

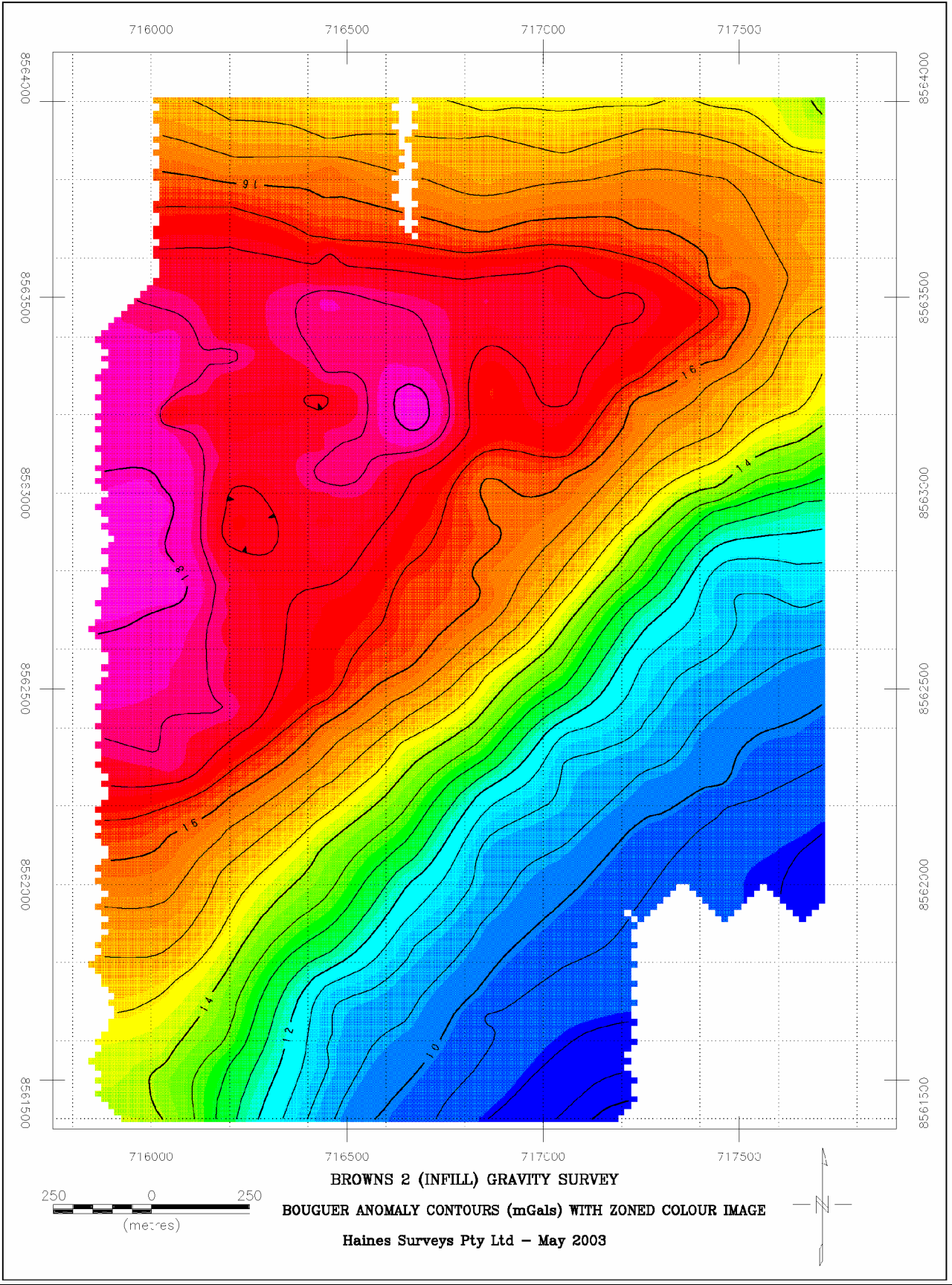
Mean	-0.008	-0.012	0.242	0.014	0.013
Min	-0.036	-0.036	0.000	0.002	0.001
Max	0.024	0.003	0.736	0.036	0.036
Count	11	11	11	11	11
SD	0.016	0.013	0.213	0.011	0.011

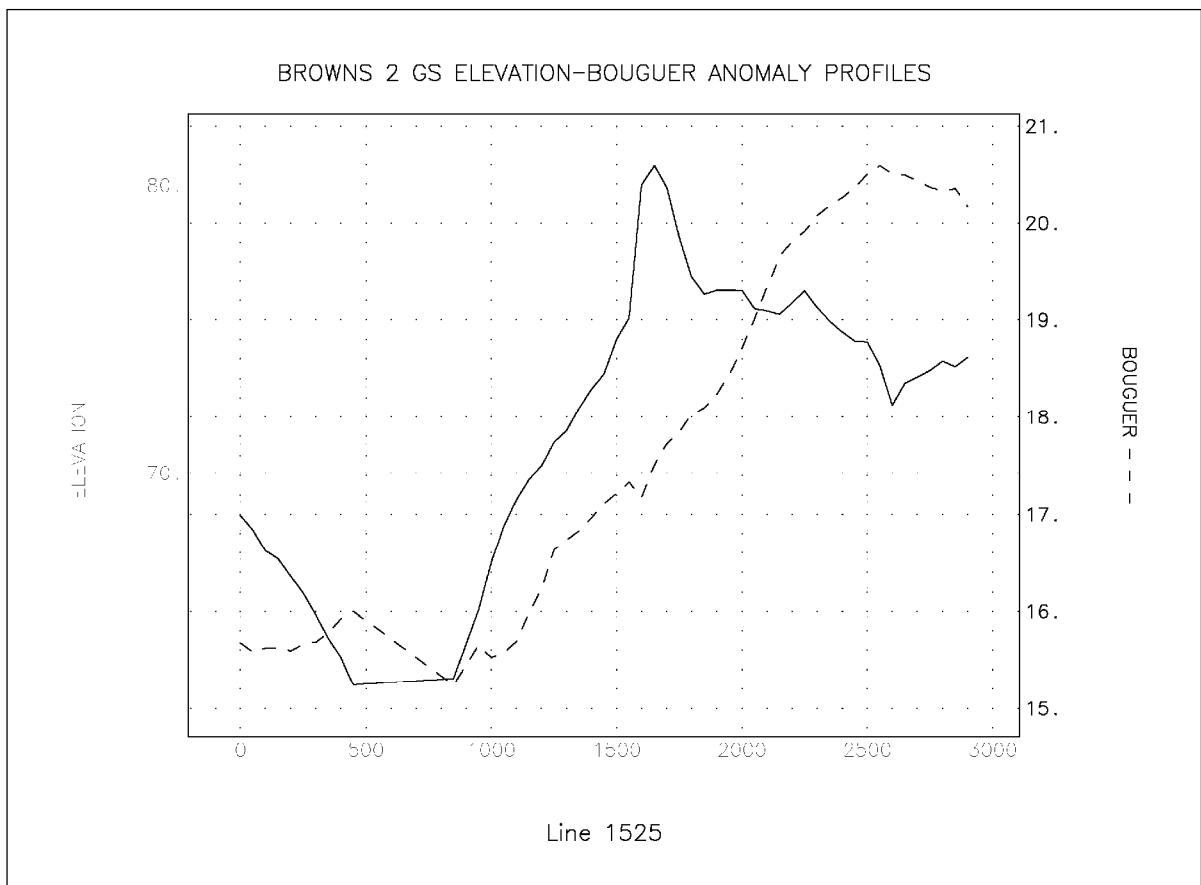
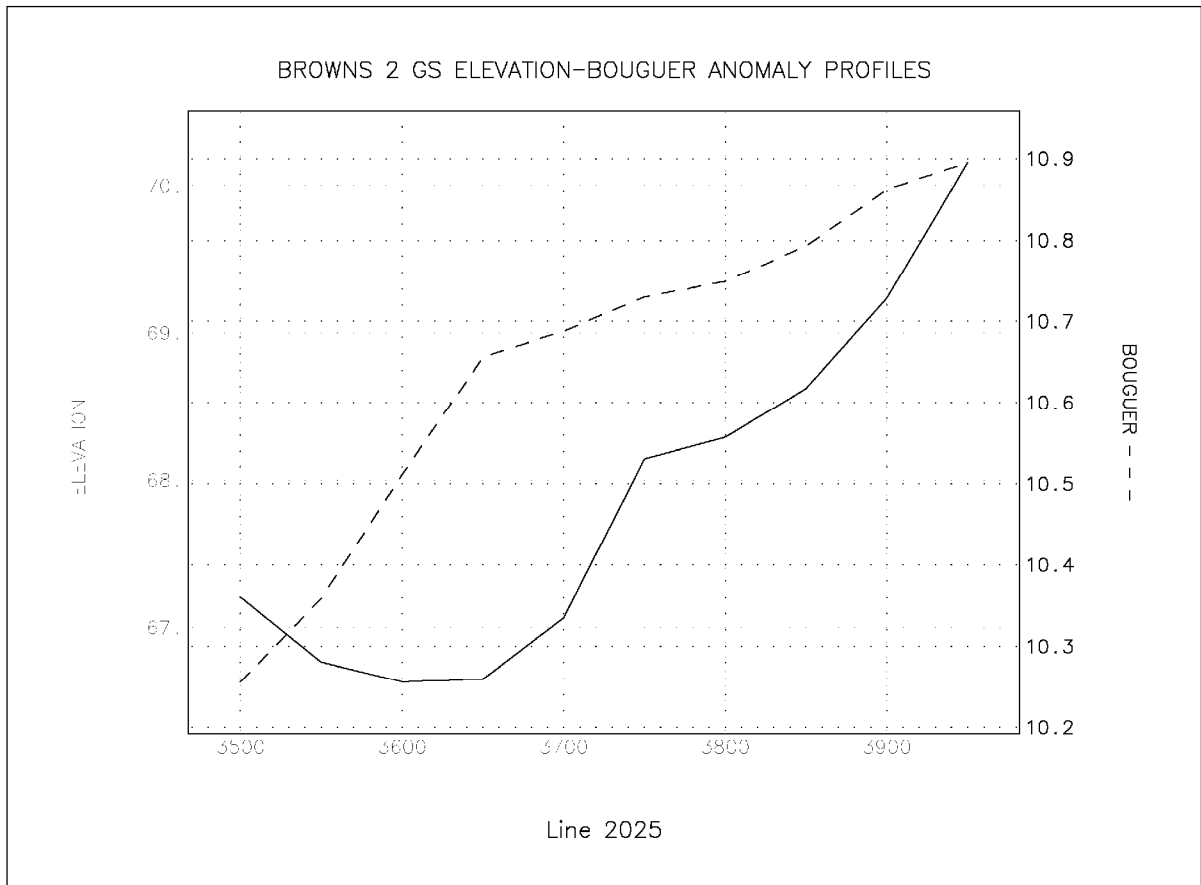
Plots

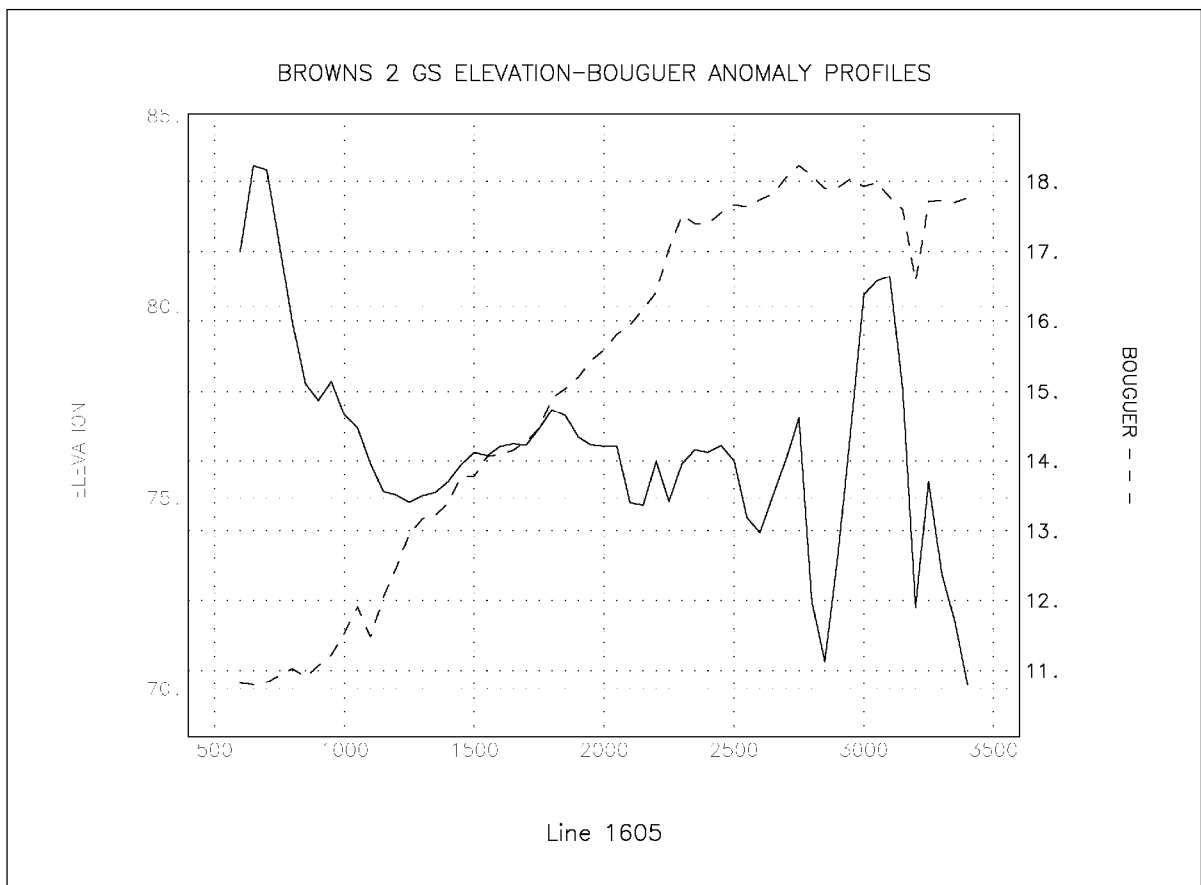
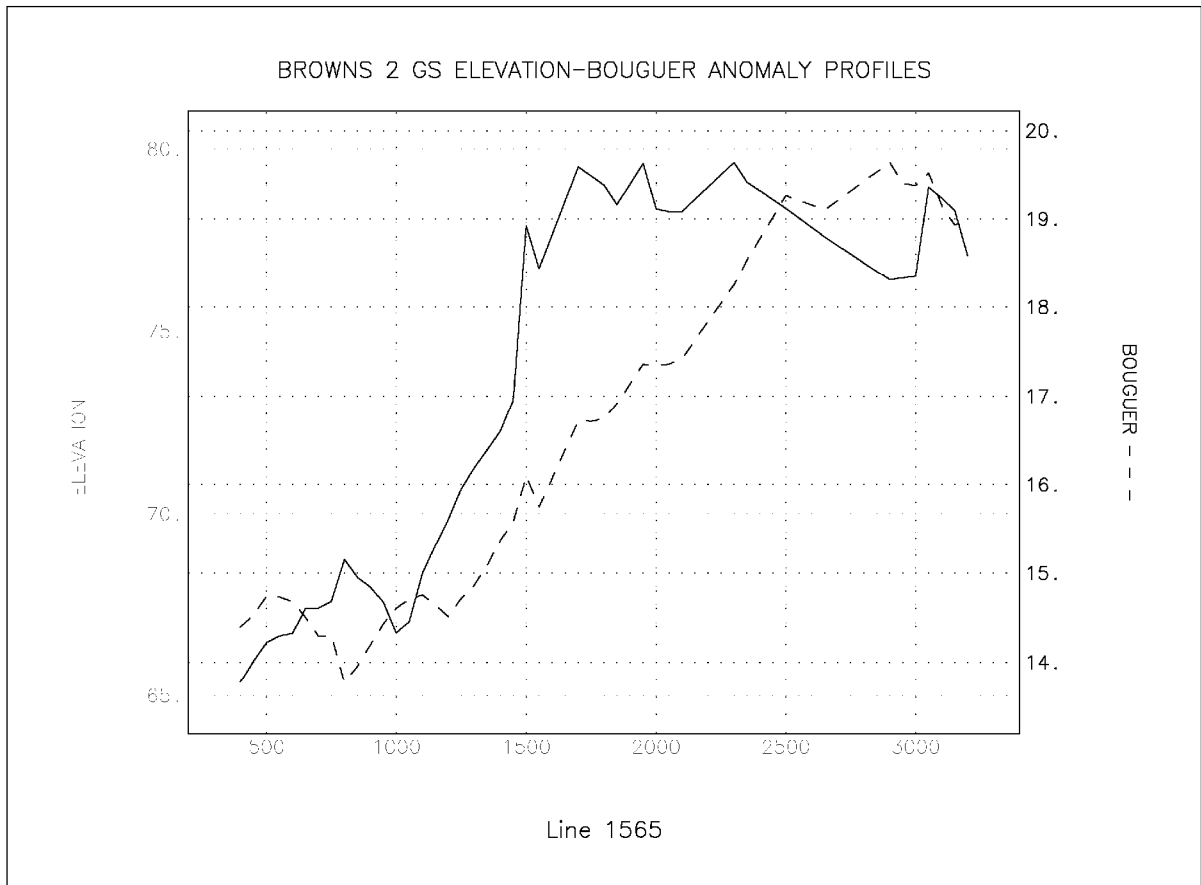
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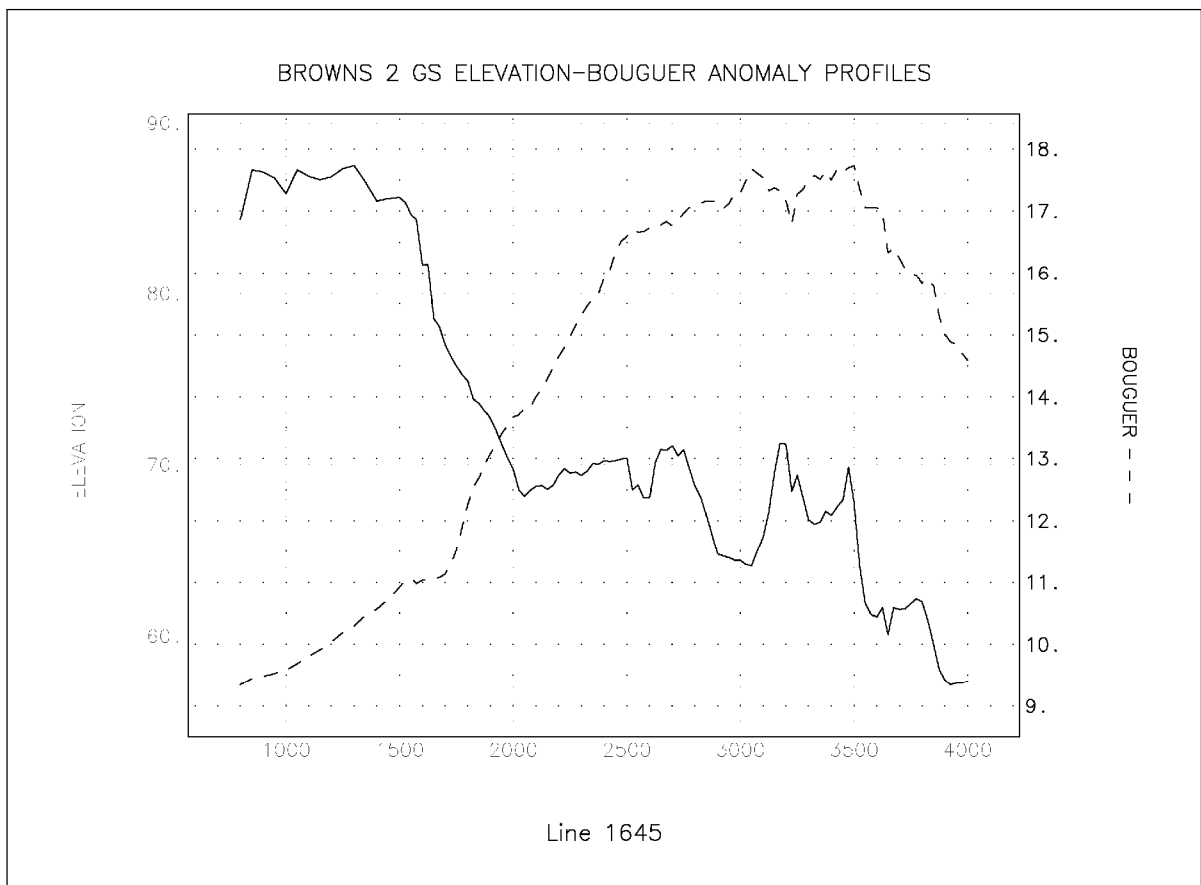
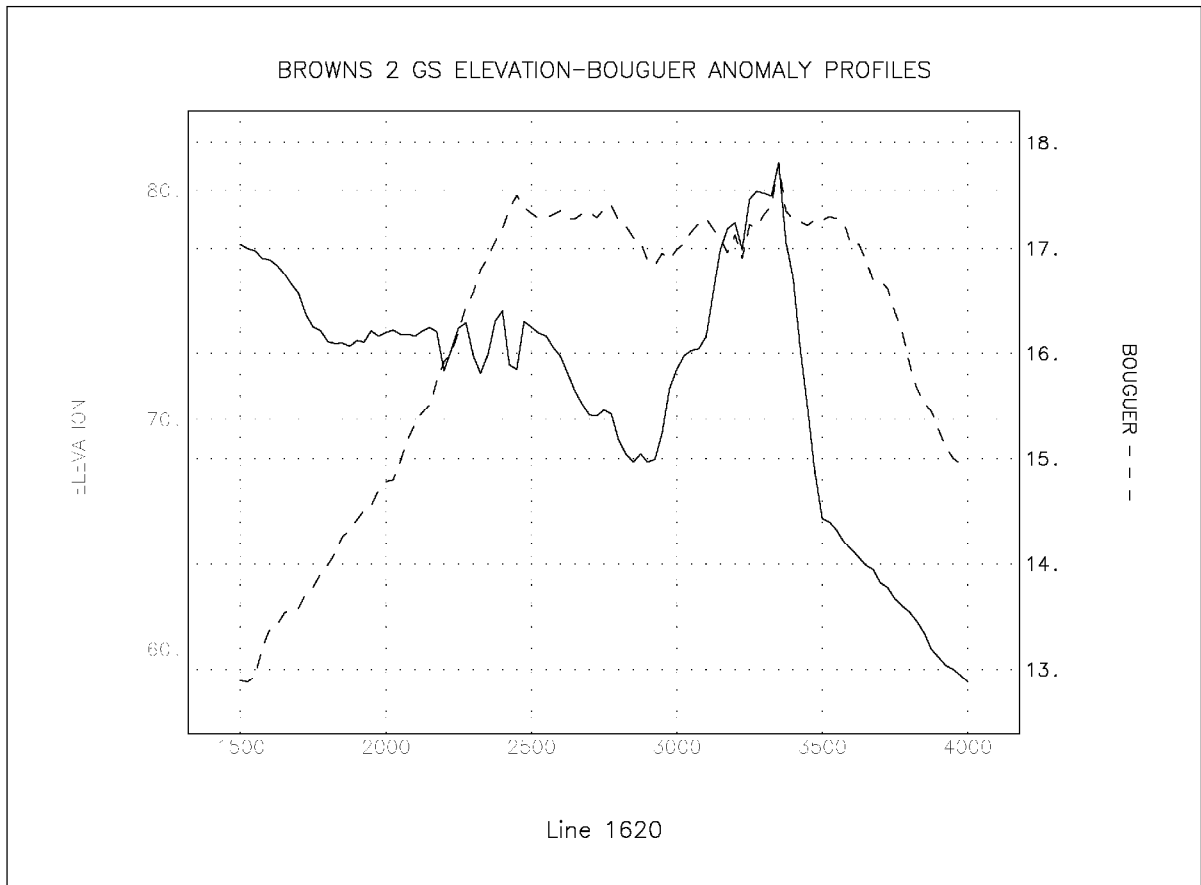


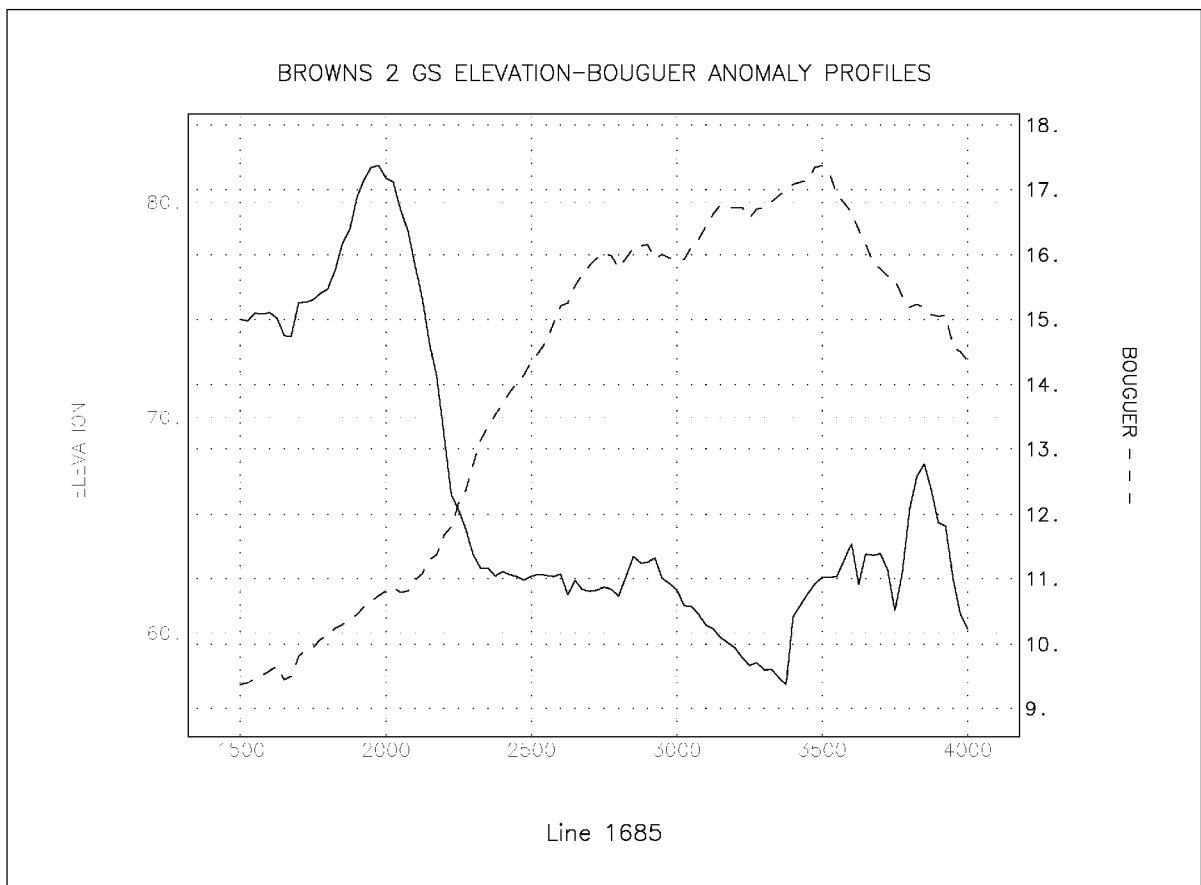
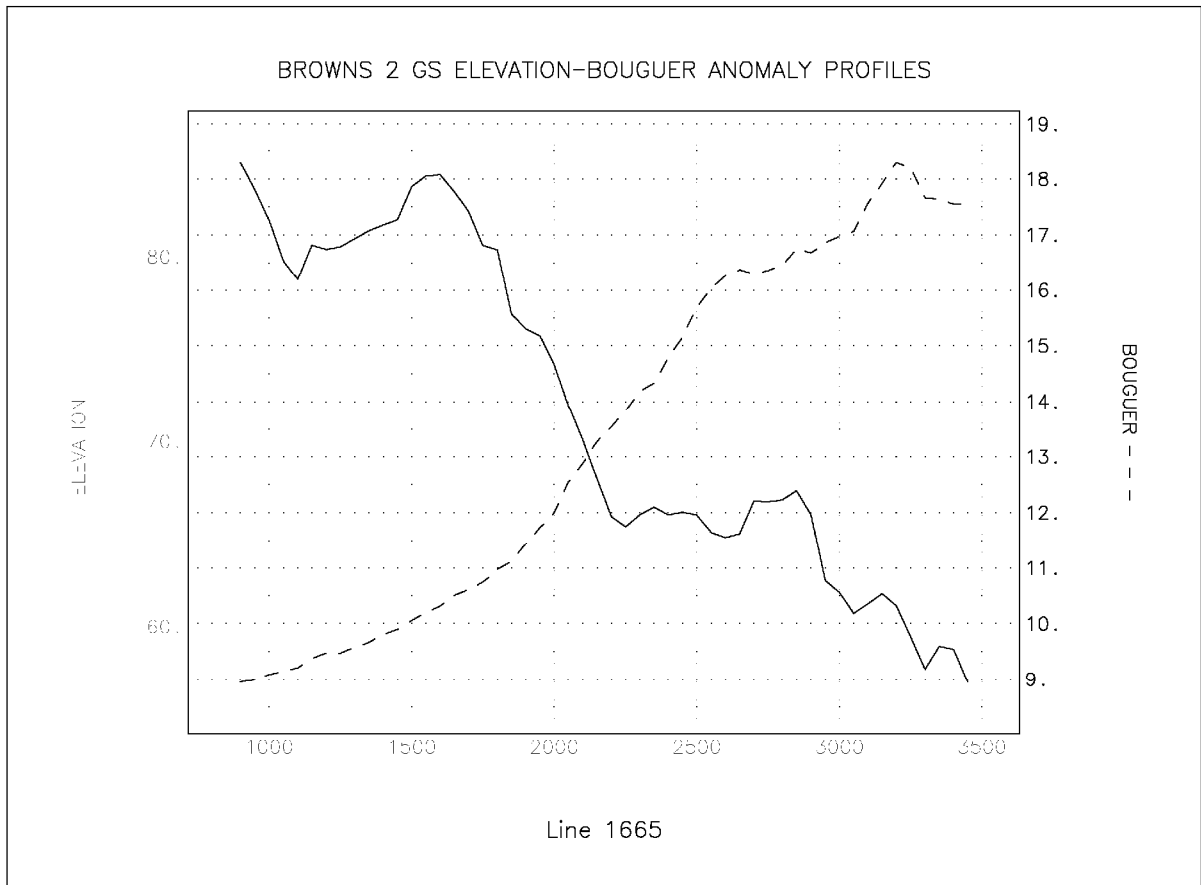


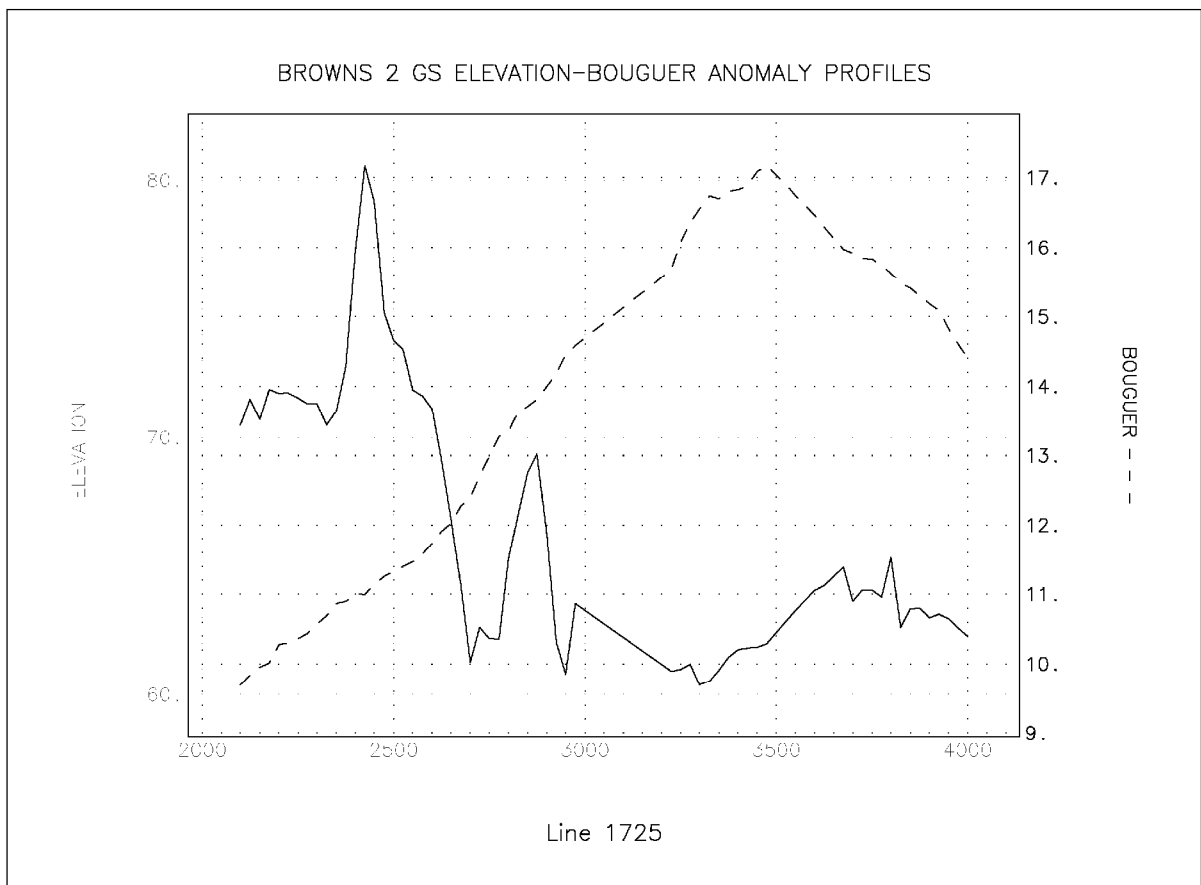
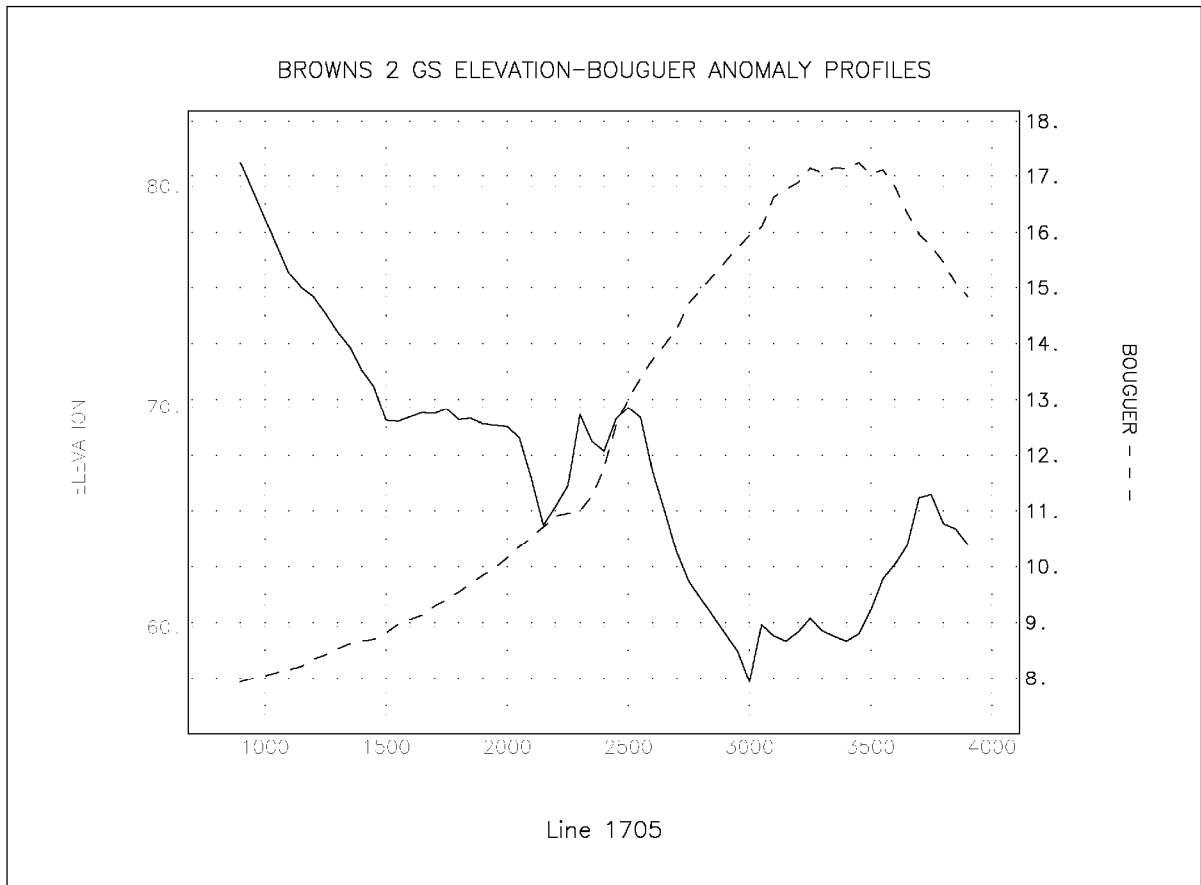


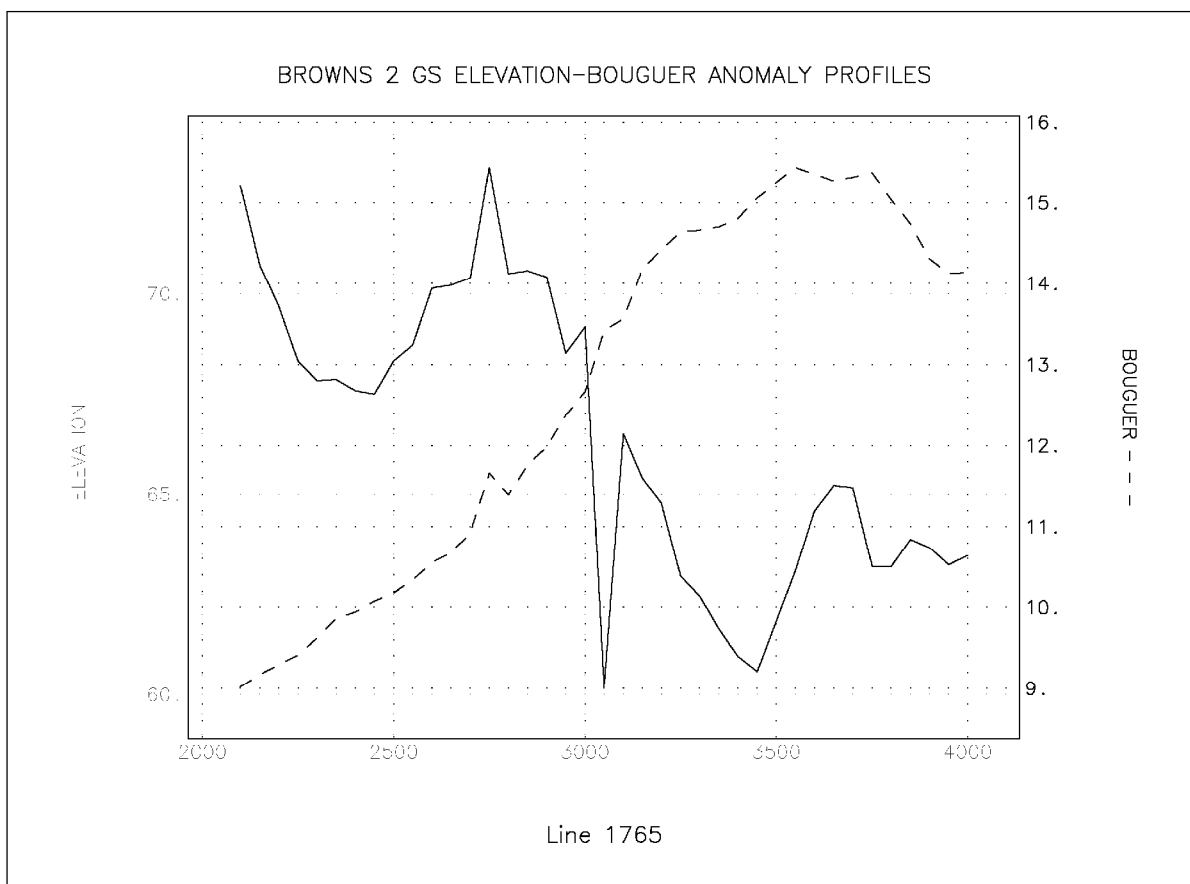
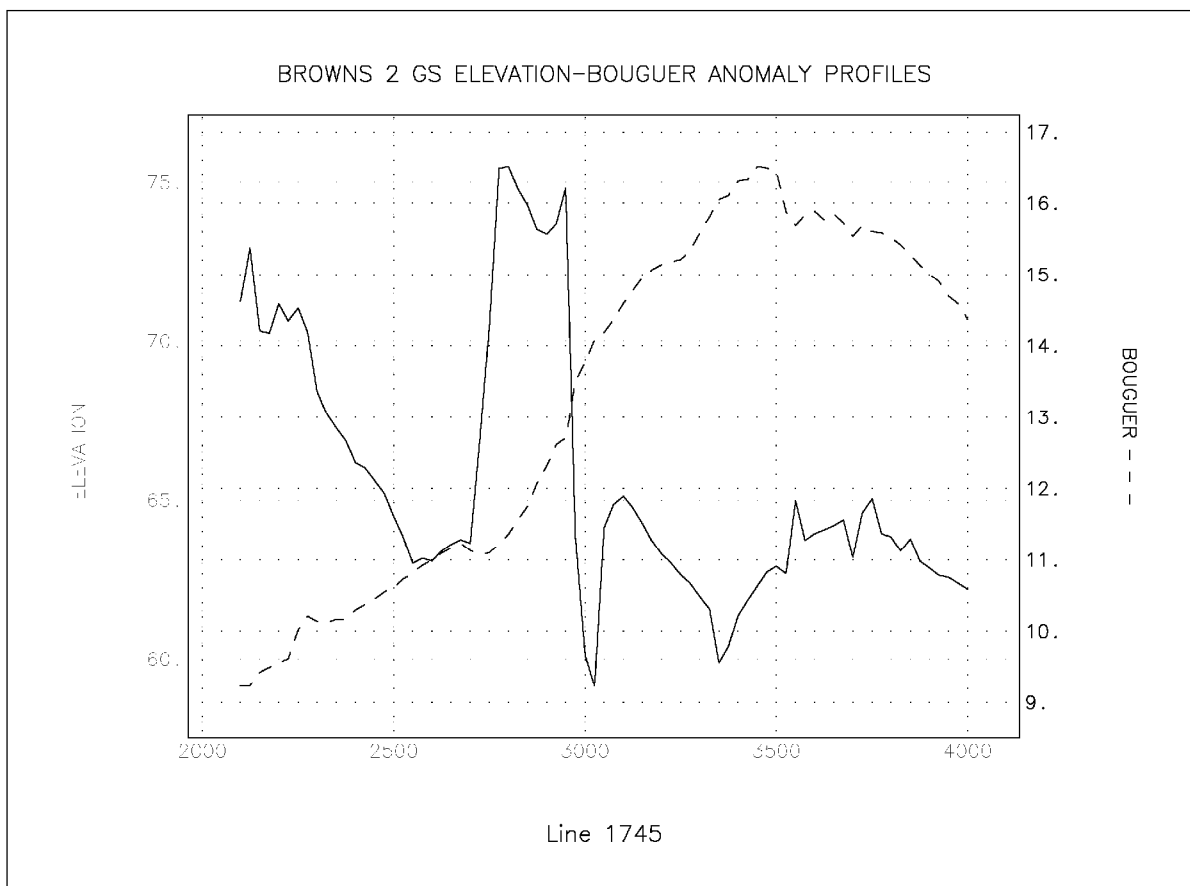


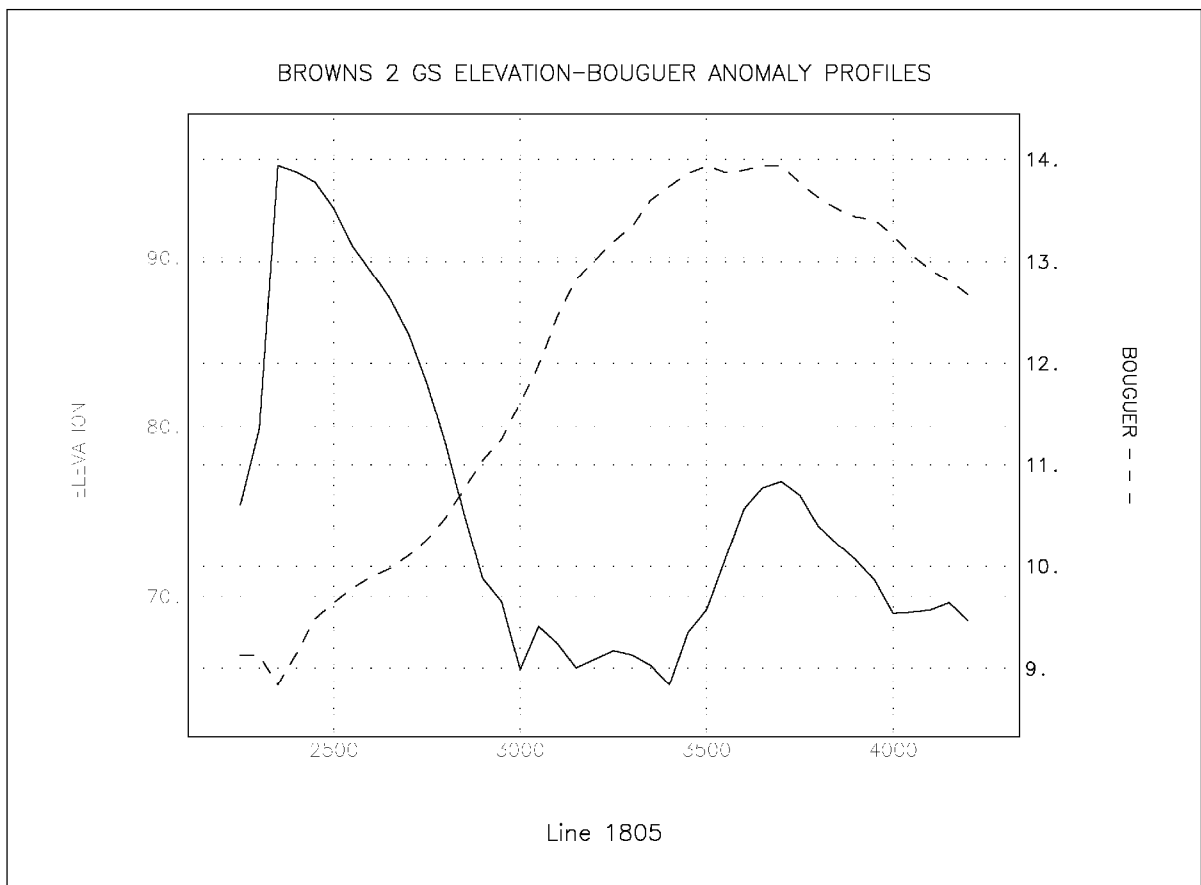
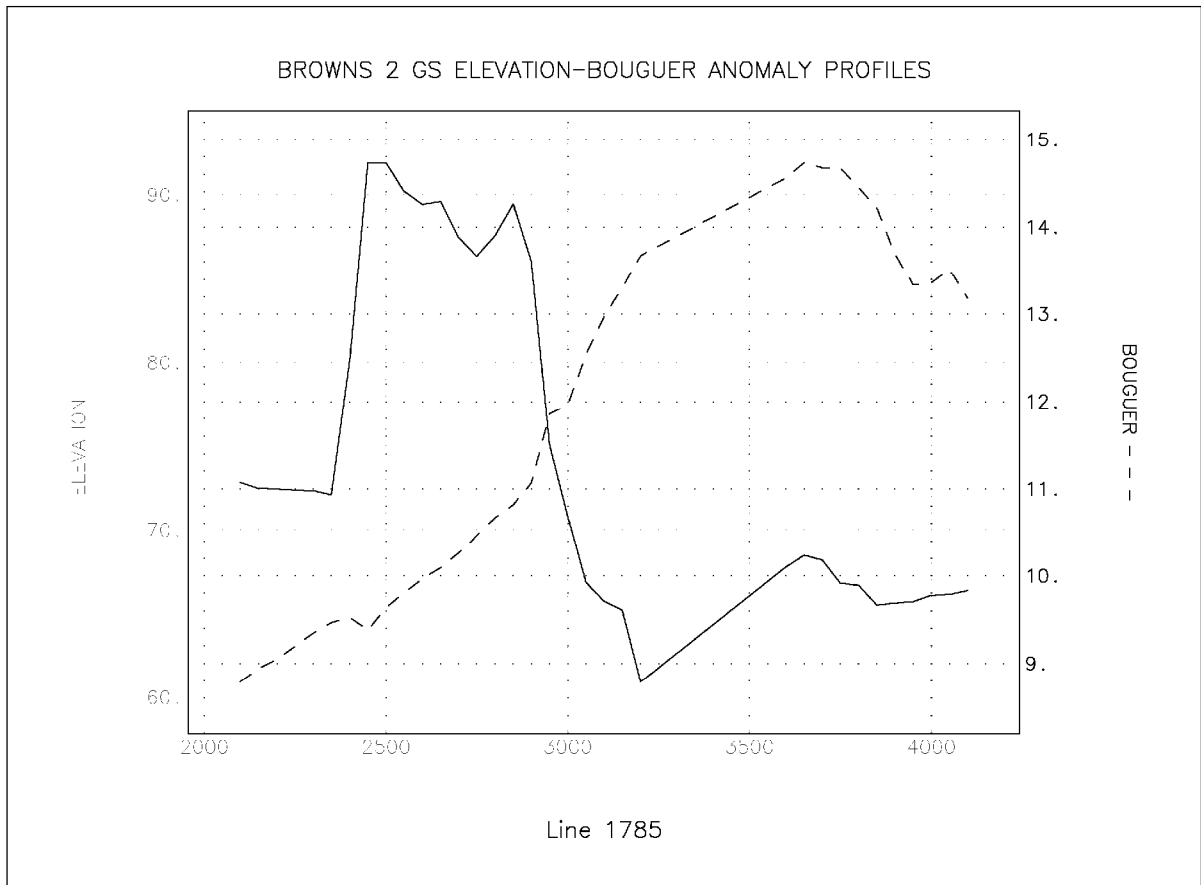


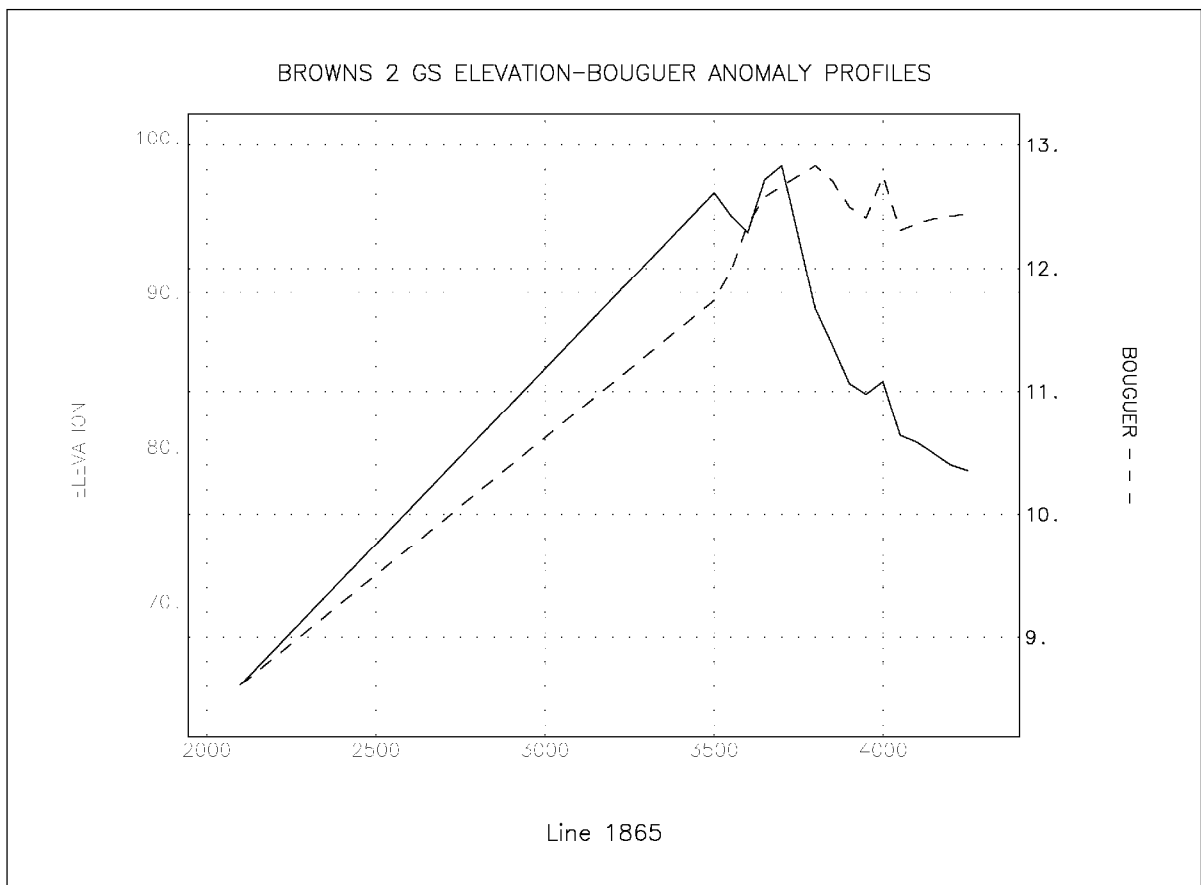
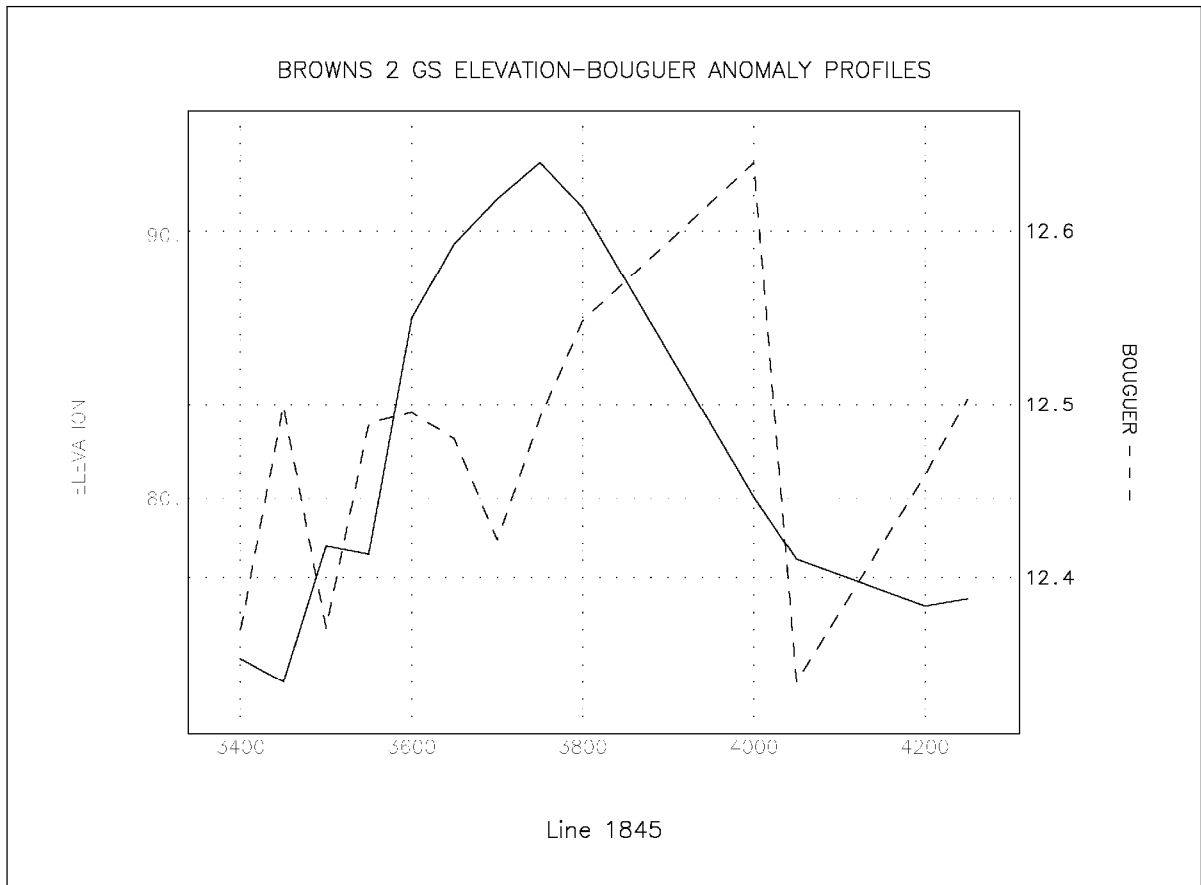


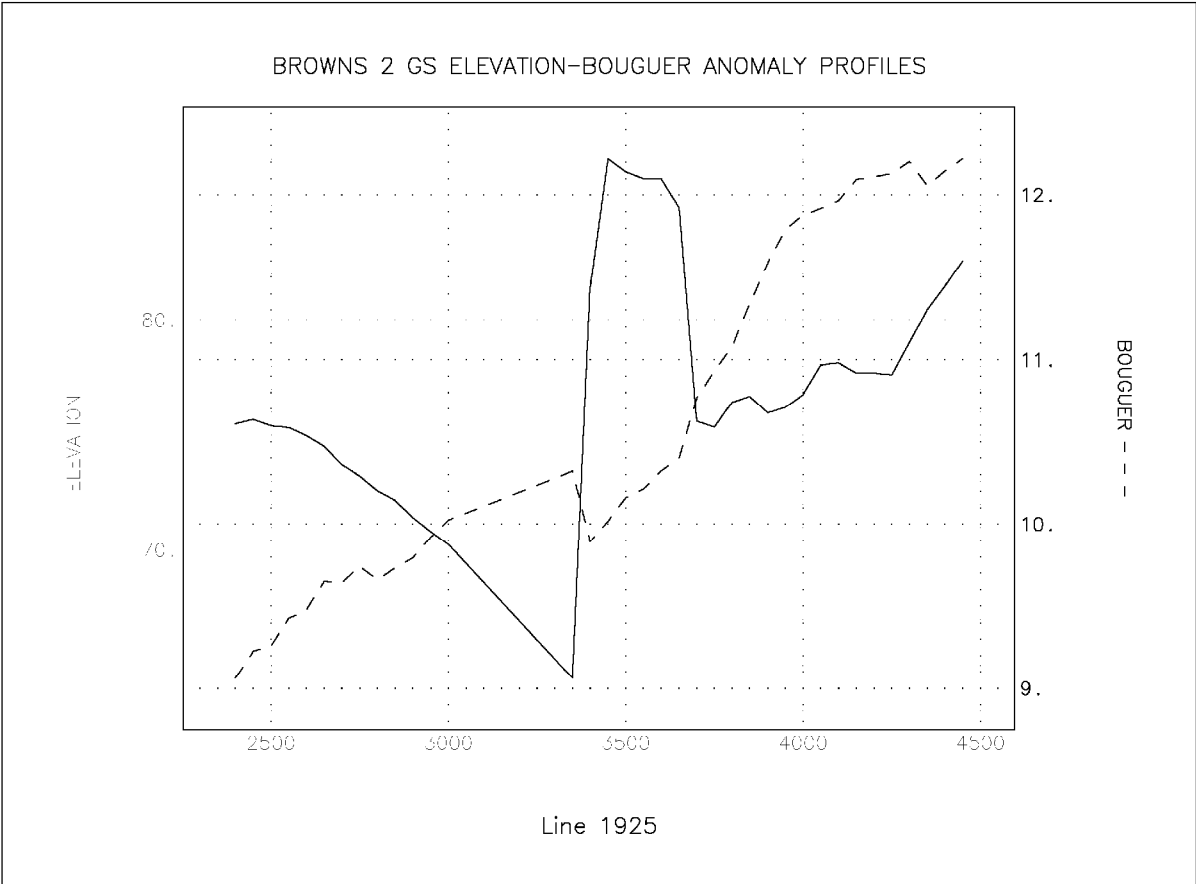
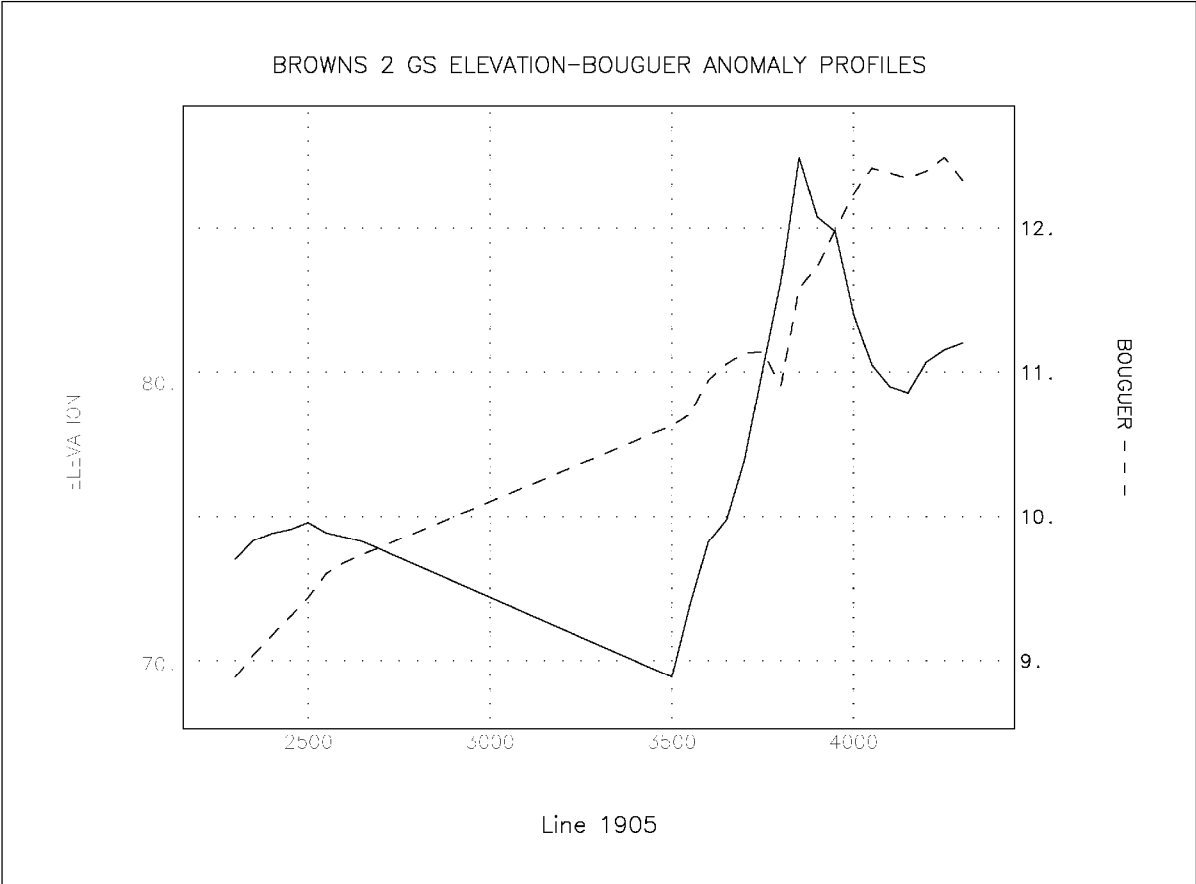


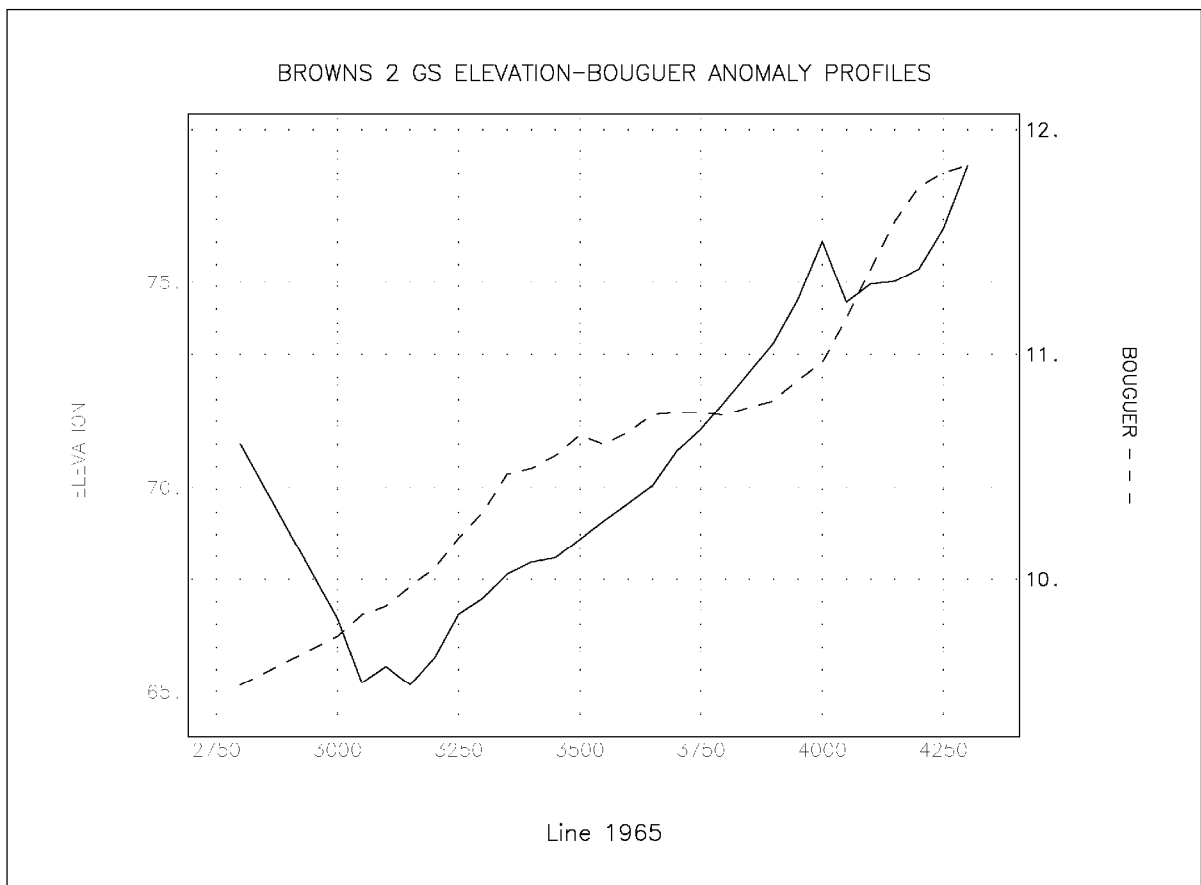
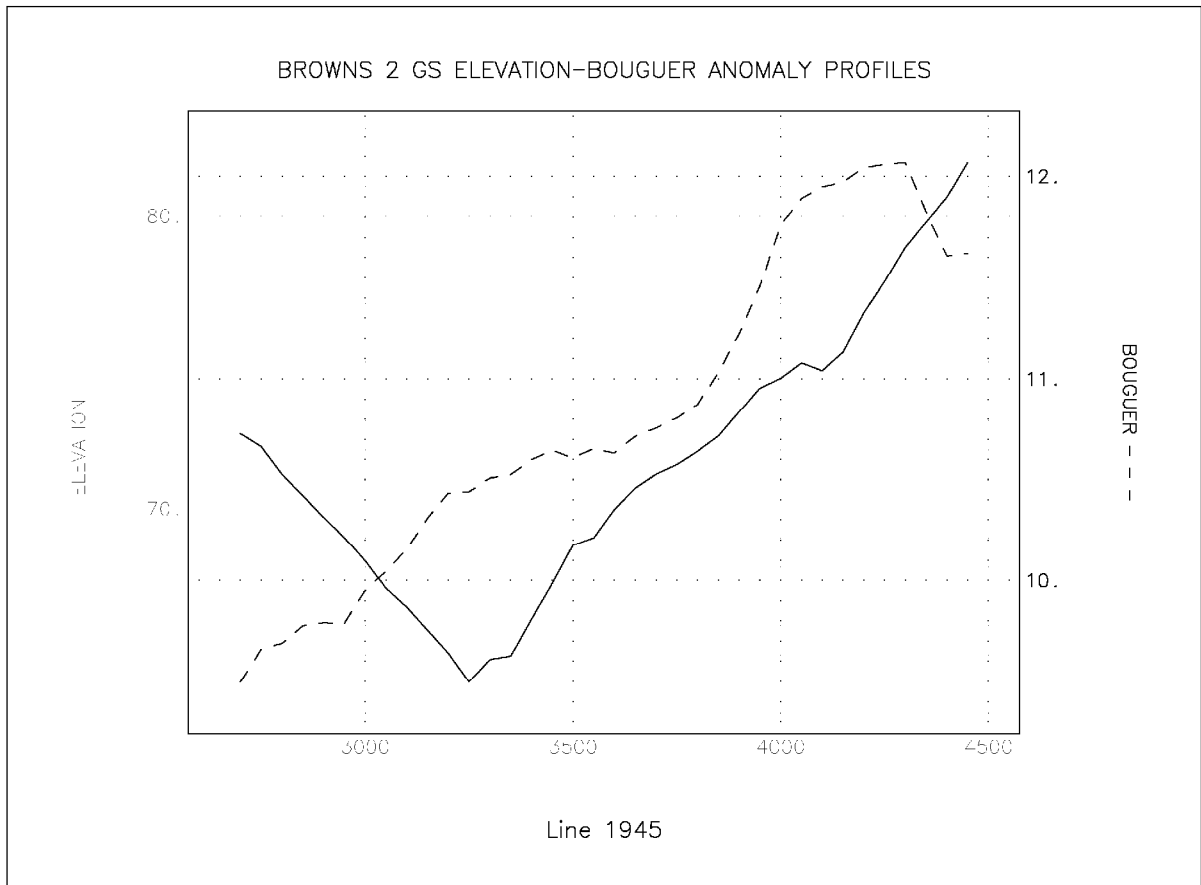


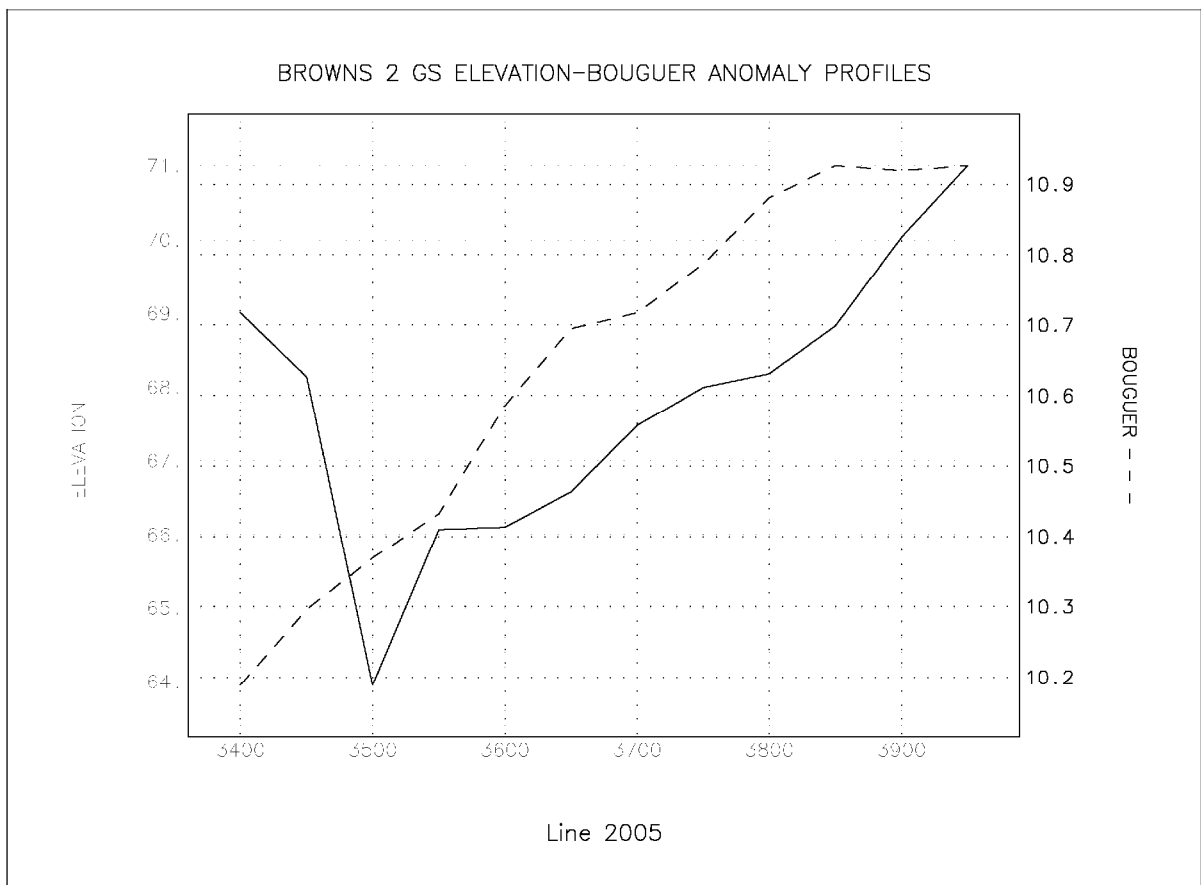
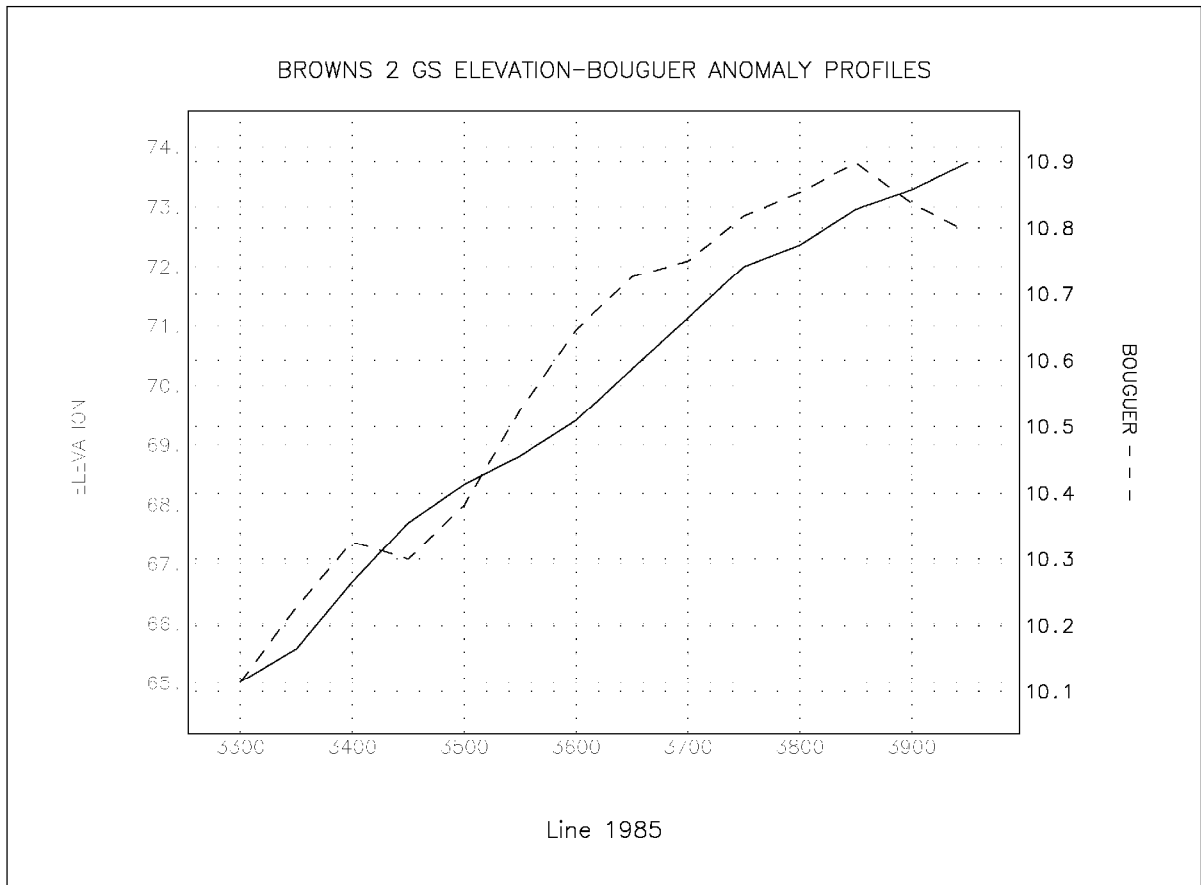












Gravity Processing Results

December 2002 Survey

/	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/	E	N	x	y		meter	mgal		corr'n	corr'n	anom	(AHD)
/										(2.67)		
/D346												
718648.1	8563505.5		0	201	+0.000	2543.488	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	+0.007	2543.488	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	-0.096	2543.481	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	+0.000	2543.577	978285.343	-7.233	29.802	-10.806	11.763	96.572
718457.9	8564200.8	1845	4200	-0.081	2547.994	978289.856	-2.473	23.425	-8.494	12.459	75.908	
718451.3	8564255.0	1845	4250	-0.079	2547.963	978289.825	-2.484	23.513	-8.526	12.503	76.193	
718654.3	8563502.4	1865	3500	-0.043	2543.484	978285.346	-7.231	29.759	-10.791	11.737	96.432	
718650.0	8563550.0	1865	3550	-0.047	2543.996	978285.858	-6.702	29.307	-10.627	11.978	94.966	
718650.6	8563599.3	1865	3600	-0.049	2544.579	978286.441	-6.102	28.968	-10.504	12.363	93.869	
718650.5	8563649.7	1865	3650	-0.051	2544.105	978285.967	-6.558	30.018	-10.885	12.576	97.272	
718647.4	8563706.3	1865	3700	-0.052	2543.998	978285.860	-6.644	30.298	-10.986	12.667	98.179	
718654.6	8563801.7	1865	3800	-0.061	2545.950	978287.812	-4.658	27.441	-9.950	12.832	88.920	
718649.7	8563851.8	1865	3850	-0.063	2546.272	978288.134	-4.319	26.711	-9.685	12.707	86.554	
718654.0	8563901.9	1865	3900	-0.064	2546.522	978288.384	-4.051	25.961	-9.414	12.497	84.125	
718655.5	8563941.6	1865	3950	-0.065	2546.559	978288.421	-3.999	25.745	-9.335	12.410	83.425	
718643.0	8563989.4	1865	4000	-0.067	2546.718	978288.580	-3.823	25.998	-9.427	12.748	84.246	
718646.8	8564052.6	1865	4050	-0.069	2546.943	978288.805	-3.576	24.918	-9.035	12.307	80.746	
718652.3	8564101.9	1865	4100	-0.073	2547.067	978288.929	-3.434	24.784	-8.987	12.363	80.310	
718650.1	8564149.7	1865	4150	-0.074	2547.235	978289.097	-3.249	24.557	-8.904	12.403	79.574	
718650.2	8564200.7	1865	4200	-0.076	2547.384	978289.246	-3.082	24.326	-8.821	12.423	78.826	
718650.3	8564250.5	1865	4250	-0.077	2547.452	978289.314	-2.996	24.219	-8.782	12.441	78.479	
/D346												
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718648.1	8563505.5		0	201	+0.001	4022.649	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	+0.125	4022.648	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	-0.002	4022.523	978285.343	-7.233	29.802	-10.806	11.763	96.572
719047.7	8563500.7	1905	3500	+0.074	4026.834	978289.529	-3.048	21.455	-7.780	10.628	69.524	
719047.4	8563548.1	1905	3550	+0.077	4026.397	978289.092	-3.468	22.239	-8.064	10.707	72.063	
719053.4	8563601.2	1905	3600	+0.079	4026.169	978288.864	-3.677	22.939	-8.318	10.944	74.331	
719049.4	8563650.2	1905	3650	+0.080	4026.110	978288.805	-3.718	23.181	-8.405	11.057	75.116	
719071.2	8563701.1	1905	3700	+0.082	4025.752	978288.447	-4.058	23.837	-8.643	11.136	77.243	
719077.3	8563749.7	1905	3750	+0.084	4025.104	978287.799	-4.689	24.834	-9.005	11.140	80.473	
719055.3	8563809.7	1905	3800	+0.087	4024.228	978286.923	-5.543	25.812	-9.359	10.909	83.641	
719054.1	8563846.3	1905	3850	+0.089	4024.020	978286.715	-5.738	27.163	-9.849	11.575	88.019	
719061.6	8563911.4	1905	3900	+0.094	4024.567	978287.262	-5.168	26.514	-9.614	11.732	85.916	
719045.1	8563953.9	1905	3950	+0.096	4024.909	978287.604	-4.811	26.356	-9.557	11.988	85.406	
719040.6	8563998.6	1905	4000	+0.097	4025.731	978288.426	-3.973	25.432	-9.222	12.237	82.410	
719052.2	8564048.8	1905	4050	+0.098	4026.232	978288.927	-3.454	24.890	-9.025	12.411	80.655	
719050.7	8564099.5	1905	4100	+0.100	4026.335	978289.030	-3.333	24.646	-8.937	12.376	79.864	
719050.1	8564149.5	1905	4150	+0.101	4026.327	978289.022	-3.323	24.582	-8.913	12.345	79.655	
719053.3	8564200.1	1905	4200	+0.103	4026.140	978288.835	-3.492	24.917	-9.035	12.390	80.743	
719049.8	8564248.3	1905	4250	+0.104	4026.132	978288.827	-3.483	25.053	-9.084	12.486	81.182	
719066.6	8564298.8	1905	4300	+0.108	4025.908	978288.603	-3.689	25.128	-9.112	12.328	81.427	
/D347												
718648.1	8563505.5		0	201	+0.009	2543.782	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	-0.027	2543.773	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	-0.008	2543.800	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	-0.078	2543.808	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5		0	201	+0.007	2543.886	978285.343	-7.233	29.802	-10.806	11.763	96.572
717651.4	8563548.3	1765	3550	-0.018	2554.011	978295.581	3.017	19.472	-7.061	15.429	63.098	
717653.6	8563601.9	1765	3600	-0.019	2553.616	978295.186	2.642	19.930	-7.227	15.345	64.582	
717651.0	8563649.3	1765	3650	-0.019	2553.393	978294.963	2.436	20.124	-7.297	15.263	65.211	
717650.8	8563699.7	1765	3700	-0.019	2553.432	978295.002	2.492	20.110	-7.292	15.310	65.165	
717650.9	8563750.9	1765	3750	-0.019	2553.853	978295.423	2.932	19.501	-7.071	15.362	63.192	
717649.8	8563799.8	1765	3800	-0.020	2553.518	978295.088	2.614	19.500	-7.071	15.043	63.187	
717650.7	8563850.3	1765	3850	-0.020	2553.061	978294.631	2.175	19.711	-7.147	14.739	63.872	
717651.1	8563900.3	1765	3900	-0.020	2552.656	978294.226	1.788	19.649	-7.125	14.312	63.670	
717650.1	8563950.1	1765	3950	-0.020	2552.539	978294.109	1.689	19.517	-7.077	14.129	63.244	
717650.8	8563999.8	1765	4000	-0.021	2552.494	978294.064	1.662	19.585	-7.102	14.145	63.465	
717853.2	8563602.2	1785	3600	-0.017	2552.238	978293.808	1.264	20.918	-7.585	14.598	67.785	
717853.3	8563654.0	1785	3650	-0.017	2552.253	978293.823	1.298	21.131	-7.662	14.767	68.475	
717850.4	8563700.0	1785	3700	-0.016	2552.198	978293.768	1.259	21.043	-7.630	14.672	68.187	
717846.9	8563750.9	1785	3750	-0.016	2552.450	978294.020	1.529	20.610	-7.473	14.666	66.786	
717850.9	8563800.4	1785	3800	-0.016	2552.239	978293.809	1.336	20.571	-7.459	14.448	66.659	
717850.7	8563850.0	1785	3850	-0.016	2552.218	978293.788	1.333	20.209	-7.328	14.214	65.487	
717849.7	8563899.7	1785	3900	-0.015	2551.653	978293.223	0.785	20.248	-7.342	13.691	65.611	
717849.9	8563948.9	1785	3950	-0.015	2551.260	978292.830	0.410	20.276	-7.352	13.334	65.702	
717849.2	8564000.5	1785	4000	-0.015	2551.187	978292.757	0.355	20.394	-7.395	13.354	66.084	
717850.3	8564049.6	1785	4050	-0.015	2551.320	978292.890	0.506	20.405	-7.399	13.512	66.122	
717850.2	8564100.0	1785	4100	-0.014	2550.921	978292.491	0.125	20.482	-7.427	13.180	66.370	
718050.2	8563498.8	1805	3500	-0.007	2551.306	978292.876	0.296	21.367	-7.748	13.915	69.237	
718050.1	8563550.6	1805	3550	-0.007	2550.659	978292.229	-0.333	22.283	-8.080	13.871	72.208	
718050.2	8563599.8	1805	3600	-0.008	2550.110	978291.680	-0.864	23.200	-8.412	13.923	75.178	

718050.0	8563649.4	1805	3650	-0.010	2549.867	978291.437	-1.089	23.579	-8.550	13.940	76.407
718050.3	8563699.8	1805	3700	-0.010	2549.774	978291.344	-1.164	23.696	-8.592	13.939	76.785
718050.8	8563749.4	1805	3750	-0.010	2549.746	978291.316	-1.175	23.448	-8.502	13.771	75.981
718051.0	8563800.7	1805	3800	-0.011	2549.940	978291.510	-0.962	22.884	-8.298	13.624	74.154
718045.5	8563850.2	1805	3850	-0.011	2550.021	978291.591	-0.864	22.561	-8.181	13.516	73.107
718050.0	8563899.9	1805	3900	-0.012	2550.114	978291.684	-0.753	22.264	-8.073	13.438	72.146
718051.9	8563948.1	1805	3950	-0.012	2550.302	978291.872	-0.548	21.903	-7.942	13.413	70.974
718051.1	8564000.0	1805	4000	-0.013	2550.512	978292.082	-0.319	21.296	-7.722	13.254	69.007
718047.0	8564047.3	1805	4050	-0.013	2550.296	978291.866	-0.519	21.314	-7.728	13.067	69.066
718045.9	8564096.2	1805	4100	-0.013	2550.104	978291.674	-0.693	21.358	-7.744	12.920	69.209
718050.1	8564150.4	1805	4150	-0.013	2549.892	978291.462	-0.886	21.487	-7.791	12.810	69.628
718050.4	8564200.6	1805	4200	-0.014	2549.942	978291.512	-0.818	21.168	-7.676	12.675	68.593
/D347											
718648.1	8563505.5	0	201	+0.000	4022.555	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.009	4022.555	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.069	4022.546	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.009	4022.477	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.423	4022.486	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.580	4022.909	978285.343	-7.233	29.802	-10.806	11.763	96.572
719449.4	8562701.3	1945	2700	+0.055	4025.289	978288.086	-4.775	22.392	-8.119	9.498	72.559
719447.5	8562751.6	1945	2750	+0.054	4025.520	978288.317	-4.526	22.256	-8.070	9.660	72.118
719466.1	8562802.4	1945	2800	+0.052	4025.720	978288.517	-4.308	21.961	-7.963	9.690	71.163
719467.1	8562850.8	1945	2850	+0.052	4025.931	978288.728	-4.079	21.738	-7.882	9.777	70.441
719447.8	8562902.8	1945	2900	+0.051	4026.071	978288.868	-3.921	21.513	-7.801	9.791	69.711
719442.9	8562951.2	1945	2950	+0.050	4026.191	978288.988	-3.784	21.293	-7.721	9.788	68.998
719440.2	8563002.4	1945	3000	+0.049	4026.492	978289.289	-3.464	21.047	-7.632	9.951	68.201
719452.8	8563050.8	1945	3050	+0.048	4026.752	978289.549	-3.187	20.761	-7.528	10.046	67.276
719457.7	8563094.9	1945	3100	+0.047	4026.972	978289.769	-2.951	20.561	-7.456	10.154	66.628
719443.8	8563153.3	1945	3150	+0.046	4027.262	978290.059	-2.641	20.317	-7.367	10.310	65.837
719440.6	8563191.4	1945	3200	+0.045	4027.522	978290.319	-2.367	20.079	-7.281	10.432	65.066
719451.4	8563249.1	1945	3250	+0.045	4027.703	978290.500	-2.165	19.774	-7.170	10.439	64.078
719449.4	8563303.9	1945	3300	+0.043	4027.602	978290.399	-2.247	20.008	-7.255	10.507	64.836
719449.7	8563338.2	1945	3350	+0.042	4027.582	978290.379	-2.255	20.048	-7.270	10.524	64.965
719446.6	8563389.0	1945	3400	+0.041	4027.392	978290.189	-2.426	20.434	-7.410	10.598	66.216
719441.1	8563445.2	1945	3450	+0.040	4027.182	978289.979	-2.616	20.806	-7.544	10.645	67.421
719634.8	8562795.9	1965	2800	+0.024	4025.585	978288.382	-4.445	21.925	-7.950	9.531	71.047
719654.5	8562999.5	1965	3000	+0.025	4026.567	978289.364	-3.390	20.610	-7.473	9.747	66.784
719642.2	8563053.9	1965	3050	+0.026	4026.949	978289.746	-2.988	20.129	-7.299	9.842	65.227
719640.2	8563102.1	1965	3100	+0.027	4026.890	978289.687	-3.030	20.255	-7.344	9.880	65.634
719654.6	8563149.3	1965	3150	+0.028	4027.052	978289.849	-2.851	20.114	-7.293	9.969	65.177
719654.9	8563197.3	1965	3200	+0.028	4026.982	978289.779	-2.904	20.318	-7.367	10.047	65.840
719650.6	8563249.8	1965	3250	+0.029	4026.893	978289.690	-2.974	20.645	-7.486	10.185	66.900
719654.8	8563298.9	1965	3300	+0.030	4026.914	978289.711	-2.936	20.765	-7.529	10.300	67.287
719641.9	8563360.2	1965	3350	+0.031	4026.945	978289.742	-2.883	20.945	-7.595	10.467	67.871
719643.9	8563399.7	1965	3400	+0.032	4026.896	978289.693	-2.918	21.038	-7.628	10.492	68.172
719648.8	8563447.8	1965	3450	+0.033	4026.917	978289.714	-2.880	21.070	-7.640	10.550	68.275
719645.9	8563498.1	1965	3500	+0.034	4026.898	978289.695	-2.881	21.213	-7.692	10.640	68.738
/D348											
718648.1	8563505.5	0	201	+0.000	2544.098	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.003	2544.098	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.054	2544.101	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.004	2544.155	978285.343	-7.233	29.802	-10.806	11.763	96.572
717646.7	8562449.4	1765	2450	-0.022	2548.522	978289.764	-3.192	20.830	-7.553	10.085	67.498
717653.7	8562500.3	1765	2500	-0.022	2548.433	978289.675	-3.263	21.084	-7.645	10.177	68.323
717653.1	8562549.5	1765	2550	-0.022	2548.496	978289.738	-3.182	21.210	-7.691	10.337	68.730
717650.4	8562601.1	1765	2600	-0.023	2548.410	978289.652	-3.250	21.647	-7.849	10.548	70.146
717652.3	8562647.8	1765	2650	-0.023	2548.513	978289.755	-3.130	21.668	-7.857	10.681	70.214
717654.3	8562698.6	1765	2700	-0.024	2548.694	978289.936	-2.931	21.725	-7.877	10.916	70.397
717658.0	8562756.6	1765	2750	-0.024	2548.875	978290.117	-2.729	22.573	-8.185	11.659	73.146
717653.9	8562799.6	1765	2800	-0.025	2549.112	978290.354	-2.477	21.759	-7.890	11.393	70.510
717656.8	8562854.9	1765	2850	-0.025	2549.438	978290.680	-2.131	21.783	-7.898	11.753	70.585
717671.9	8562898.2	1765	2900	-0.026	2549.683	978290.925	-1.871	21.731	-7.880	11.981	70.418
717665.8	8562960.9	1765	2950	-0.026	2550.426	978291.668	-1.105	21.146	-7.667	12.373	68.521
717661.3	8562999.3	1765	3000	-0.027	2550.576	978291.818	-0.942	21.346	-7.740	12.665	69.172
717655.0	8563043.9	1765	3050	-0.028	2553.082	978294.324	1.580	18.575	-6.735	13.420	60.191
717649.6	8563083.6	1765	3100	-0.029	2551.969	978293.211	0.482	20.519	-7.440	13.561	66.492
717651.4	8563151.9	1765	3150	-0.031	2552.781	978294.023	1.318	20.181	-7.318	14.181	65.395
717654.4	8563200.7	1765	3200	-0.031	2553.124	978294.366	1.678	19.991	-7.249	14.421	64.781
717653.9	8563249.5	1765	3250	-0.032	2553.687	978294.929	2.259	19.427	-7.044	14.641	62.951
717653.8	8563300.4	1765	3300	-0.032	2553.784	978295.026	2.374	19.275	-6.989	14.660	62.459
717653.3	8563350.6	1765	3350	-0.033	2553.971	978295.213	2.579	19.021	-6.897	14.703	61.636
717653.3	8563398.8	1765	3400	-0.034	2554.194	978295.436	2.819	18.809	-6.820	14.808	60.950
717653.4	8563449.9	1765	3450	-0.034	2554.500	978295.742	3.143	18.695	-6.779	15.059	60.580
718050.0	8563550.7	1805	3550	-0.053	2550.968	978292.210	-0.352	22.268	-8.074	13.842	72.157
/D348											
718648.1	8563505.5	0	201	+0.000	4022.538	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.007	4022.538	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.158	4022.531	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.009	4022.373	978285.343	-7.233	29.802	-10.806	11.763	96.572
718050.8	8562299.9	1805	2300	+0.122	4023.607	978286.419	-6.589	24.655	-8.940	9.126	79.892
718049.7	8562356.8	1805	2350	+0.120	4020.247	978283.059	-9.929	29.440	-10.675	8.836	95.399
718053.2	8562398.8	1805	2400	+0.118	4020.618	978283.430	-9.543	29.322	-10.632	9.147	95.015
718051.4	8562449.7	1805	2450	+0.117	4021.058	978283.870	-9.085	29.137	-10.565	9.487	94.417

718054.2	8562498.6	1805	2500	+0.116	4021.499	978284.311	-8.626	28.659	-10.392	9.641	92.869
718053.0	8562549.3	1805	2550	+0.114	4022.058	978284.870	-8.049	27.983	-10.147	9.787	90.676
718055.3	8562600.6	1805	2600	+0.113	4022.439	978285.251	-7.650	27.523	-9.980	9.893	89.187
718052.2	8562645.4	1805	2650	+0.112	4022.819	978285.631	-7.254	27.033	-9.802	9.977	87.599
718053.5	8562699.8	1805	2700	+0.110	4023.339	978286.151	-6.714	26.385	-9.567	10.103	85.499
718054.5	8562746.9	1805	2750	+0.109	4024.050	978286.862	-5.986	25.494	-9.244	10.264	82.613
718043.6	8562796.3	1805	2800	+0.107	4024.970	978287.782	-5.049	24.368	-8.836	10.483	78.963
718034.9	8562847.2	1805	2850	+0.106	4026.040	978288.852	-3.961	23.096	-8.375	10.761	74.842
718052.2	8562899.4	1805	2900	+0.104	4027.090	978289.902	-2.892	21.914	-7.946	11.076	71.011
719645.7	8563497.8	1965	3500	+0.013	4026.863	978289.675	-2.901	21.217	-7.693	10.623	68.753
719641.0	8563549.9	1965	3550	+0.018	4026.734	978289.546	-3.011	21.350	-7.742	10.597	69.184
719637.1	8563599.7	1965	3600	+0.020	4026.689	978289.501	-3.039	21.482	-7.789	10.654	69.610
719625.2	8563650.8	1965	3650	+0.021	4026.662	978289.474	-3.047	21.615	-7.838	10.730	70.043
719643.8	8563698.9	1965	3700	+0.022	4026.494	978289.306	-3.198	21.871	-7.931	10.743	70.873
719641.9	8563748.0	1965	3750	+0.024	4026.367	978289.179	-3.308	22.039	-7.991	10.740	71.416
719647.0	8563800.4	1965	3800	+0.025	4026.200	978289.012	-3.456	22.257	-8.070	10.730	72.121
719649.1	8563848.4	1965	3850	+0.026	4026.082	978288.894	-3.557	22.471	-8.148	10.766	72.815
719651.1	8563898.5	1965	3900	+0.027	4025.954	978288.766	-3.667	22.689	-8.227	10.795	73.523
719646.8	8563950.5	1965	3950	+0.028	4025.817	978288.629	-3.786	23.019	-8.347	10.887	74.591
719647.7	8563991.9	1965	4000	+0.029	4025.599	978288.411	-3.989	23.457	-8.506	10.963	76.011
719636.0	8564049.7	1965	4050	+0.030	4026.071	978288.883	-3.496	22.995	-8.338	11.161	74.515
719647.4	8564104.3	1965	4100	+0.031	4026.183	978288.995	-3.365	23.134	-8.389	11.381	74.965
719637.3	8564150.2	1965	4150	+0.032	4026.365	978289.177	-3.166	23.154	-8.396	11.592	75.028
719637.5	8564198.5	1965	4200	+0.034	4026.439	978289.251	-3.075	23.251	-8.431	11.745	75.343
719640.4	8564243.5	1965	4250	+0.035	4026.291	978289.103	-3.207	23.552	-8.540	11.805	76.320
719647.1	8564298.2	1965	4300	+0.036	4026.003	978288.815	-3.476	24.023	-8.711	11.837	77.846
719835.3	8563307.4	1985	3300	+0.073	4027.157	978289.969	-2.674	20.065	-7.276	10.115	65.019
719834.0	8563347.7	1985	3350	+0.072	4027.146	978289.958	-2.671	20.237	-7.338	10.228	65.578
719835.8	8563398.6	1985	3400	+0.071	4027.005	978289.817	-2.794	20.583	-7.463	10.326	66.697
719851.6	8563452.2	1985	3450	+0.070	4026.764	978289.576	-3.016	20.890	-7.575	10.300	67.692
719851.3	8563498.3	1985	3500	+0.069	4026.703	978289.515	-3.060	21.089	-7.647	10.382	68.339
719857.9	8563553.6	1985	3550	+0.068	4026.732	978289.544	-3.011	21.236	-7.700	10.525	68.815
719857.5	8563596.7	1985	3600	+0.067	4026.721	978289.533	-3.007	21.420	-7.767	10.646	69.411
719852.9	8563652.7	1985	3650	+0.066	4026.610	978289.422	-3.098	21.689	-7.864	10.726	70.281
719855.3	8563702.4	1985	3700	+0.065	4026.449	978289.261	-3.241	21.952	-7.960	10.750	71.133
719850.2	8563751.2	1985	3750	+0.064	4026.328	978289.140	-3.345	22.220	-8.057	10.818	72.002
719849.4	8563796.0	1985	3800	+0.063	4026.276	978289.088	-3.381	22.331	-8.097	10.853	72.363
719853.8	8563849.8	1985	3850	+0.062	4026.185	978288.997	-3.453	22.515	-8.164	10.898	72.958
719854.0	8563898.3	1985	3900	+0.060	4026.043	978288.855	-3.578	22.615	-8.200	10.837	73.284
719844.9	8563949.1	1985	3950	+0.059	4025.891	978288.703	-3.711	22.756	-8.252	10.794	73.741
/D349											
718648.1	8563505.5	0	201	+0.000	2544.436	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.003	2544.436	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.056	2544.439	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.003	2544.495	978285.343	-7.233	29.802	-10.806	11.763	96.572
716458.3	8560807.0	1645	0800	-0.035	2545.390	978286.294	-7.252	26.033	-9.440	9.342	84.359
716442.4	8560851.8	1645	0850	-0.035	2544.922	978285.826	-7.704	26.914	-9.759	9.451	87.213
716456.9	8560905.7	1645	0900	-0.036	2544.958	978285.862	-7.649	26.879	-9.746	9.484	87.099
716450.0	8560956.8	1645	0950	-0.038	2545.056	978285.960	-7.532	26.772	-9.708	9.532	86.752
716463.4	8561008.8	1645	1000	-0.038	2545.260	978286.164	-7.310	26.488	-9.605	9.574	85.834
716451.8	8561046.8	1645	1050	-0.039	2545.086	978285.990	-7.470	26.918	-9.760	9.687	87.225
716455.0	8561103.4	1645	1100	-0.040	2545.265	978286.169	-7.271	26.800	-9.718	9.811	86.843
716459.4	8561151.5	1645	1150	-0.040	2545.389	978286.293	-7.130	26.738	-9.695	9.913	86.642
716454.3	8561207.9	1645	1200	-0.041	2545.453	978286.357	-7.046	26.796	-9.716	10.034	86.830
716452.6	8561250.5	1645	1250	-0.041	2545.501	978286.405	-6.982	26.940	-9.769	10.190	87.299
716446.3	8561298.2	1645	1300	-0.042	2545.557	978286.461	-6.909	26.994	-9.788	10.297	87.473
716452.5	8561351.8	1645	1350	-0.042	2545.906	978286.810	-6.541	26.691	-9.678	10.472	86.491
716456.6	8561400.7	1645	1400	-0.043	2546.191	978287.095	-6.239	26.361	-9.559	10.564	85.422
716451.0	8561453.8	1645	1450	-0.045	2546.307	978287.211	-6.104	26.409	-9.576	10.729	85.576
716655.2	8560905.3	1665	0900	-0.034	2544.824	978285.728	-7.782	26.251	-9.519	8.950	85.066
716648.8	8560954.4	1665	0950	-0.033	2545.120	978286.024	-7.469	25.807	-9.358	8.981	83.627
716649.4	8560999.0	1665	1000	-0.032	2545.525	978286.429	-7.048	25.302	-9.175	9.080	81.990
716649.9	8561050.9	1665	1050	-0.032	2546.014	978286.918	-6.540	24.615	-8.925	9.149	79.762
716656.7	8561102.2	1665	1100	-0.031	2546.247	978287.151	-6.289	24.307	-8.814	9.204	78.765
716642.8	8561151.4	1665	1150	-0.031	2546.023	978286.927	-6.495	24.884	-9.023	9.366	80.635
716651.4	8561202.1	1665	1200	-0.030	2546.160	978287.064	-6.340	24.811	-8.996	9.474	80.397
716649.6	8561252.4	1665	1250	-0.030	2546.115	978287.019	-6.367	24.850	-9.011	9.472	80.526
716650.0	8561303.2	1665	1300	-0.029	2546.113	978287.017	-6.351	24.988	-9.061	9.576	80.972
716649.2	8561350.5	1665	1350	-0.029	2546.097	978287.001	-6.350	25.119	-9.108	9.661	81.397
716644.6	8561402.5	1665	1400	-0.028	2546.161	978287.065	-6.268	25.217	-9.144	9.805	81.713
716652.7	8561449.5	1665	1450	-0.028	2546.175	978287.079	-6.237	25.304	-9.175	9.892	81.997
716648.2	8561503.6	1665	1500	-0.027	2545.972	978286.876	-6.420	25.857	-9.376	10.061	83.789
716650.4	8561553.9	1665	1550	-0.027	2545.989	978286.893	-6.385	26.033	-9.440	10.208	84.358
716657.0	8561602.6	1665	1600	-0.026	2546.061	978286.965	-6.296	26.052	-9.447	10.310	84.421
716649.3	8561651.7	1665	1650	-0.026	2546.418	978287.322	-5.922	25.770	-9.344	10.504	83.507
716648.7	8561701.3	1665	1700	-0.025	2546.715	978287.619	-5.607	25.440	-9.225	10.609	82.438
716652.8	8561754.3	1665	1750	-0.025	2547.183	978288.087	-5.120	24.884	-9.023	10.741	80.636
716652.4	8561798.9	1665	1800	-0.023	2547.450	978288.354	-4.837	24.803	-8.994	10.973	80.374
716649.3	8561851.6	1665	1850	-0.022	2548.256	978289.160	-4.012	23.727	-8.604	11.111	76.886
716649.6	8561899.0	1665	1900	-0.022	2548.722	978289.626	-3.529	23.480	-8.514	11.437	76.085
716655.0	8561951.5	1665	1950	-0.021	2549.071	978289.975	-3.161	23.363	-8.471	11.730	75.705
716654.3	8562001.3	1665	2000	-0.020	2549.627	978290.531	-2.588	22.884	-8.298	11.999	74.154
716646.6	8562051.2	1665	2050	-0.020	2550.590	978291.494	-1.607	22.205	-8.052	12.547	71.955

716657.0	8562098.6	1665	2100	-0.019	2551.262	978292.166	-0.918	21.638	-7.846	12.874	70.117
716650.5	8562153.7	1665	2150	-0.018	2552.071	978292.975	-0.089	20.972	-7.604	13.278	67.957
716651.4	8562202.2	1665	2200	-0.017	2552.709	978293.613	0.566	20.352	-7.380	13.538	65.949
716649.0	8562253.5	1665	2250	-0.016	2553.092	978293.996	0.968	20.181	-7.318	13.831	65.394
716634.6	8562305.5	1665	2300	-0.015	2553.291	978294.195	1.185	20.386	-7.392	14.179	66.061
716644.3	8562349.7	1665	2350	-0.014	2553.340	978294.244	1.250	20.515	-7.439	14.326	66.477
716650.5	8562393.3	1665	2400	-0.013	2553.868	978294.772	1.793	20.382	-7.391	14.785	66.047
716655.1	8562452.2	1665	2450	-0.012	2554.187	978295.091	2.133	20.430	-7.408	15.155	66.201
716649.9	8562502.0	1665	2500	-0.011	2554.736	978295.640	2.700	20.381	-7.390	15.691	66.042
716650.6	8562551.4	1665	2550	-0.011	2555.238	978296.142	3.220	20.092	-7.285	16.026	65.106
716651.0	8562602.0	1665	2600	-0.010	2555.509	978296.413	3.509	20.004	-7.254	16.260	64.823
716635.4	8562653.0	1665	2650	-0.010	2555.562	978296.466	3.580	20.065	-7.276	16.369	65.019
716651.0	8562702.1	1665	2700	-0.009	2555.128	978296.032	3.164	20.604	-7.471	16.297	66.766
716651.4	8562752.5	1665	2750	-0.008	2555.175	978296.079	3.229	20.597	-7.468	16.357	66.742
716650.3	8562801.9	1665	2800	-0.008	2555.233	978296.137	3.304	20.625	-7.479	16.451	66.835
716632.4	8562851.7	1665	2850	-0.008	2555.413	978296.317	3.502	20.783	-7.536	16.749	67.345
716652.1	8562898.8	1665	2900	-0.007	2555.598	978296.502	3.704	20.376	-7.388	16.691	66.027
716653.0	8562950.4	1665	2950	-0.006	2556.477	978297.381	4.601	19.289	-6.994	16.896	62.504
718050.3	8563600.0	1805	3600	-0.054	2550.751	978291.655	-0.889	23.192	-8.409	13.893	75.151
718049.9	8563649.5	1805	3650	-0.055	2550.501	978291.405	-1.121	23.567	-8.546	13.900	76.368
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718648.1	8563505.5	0	201	+0.000	4022.338	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.009	4022.338	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.020	4022.329	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.009	4022.349	978285.343	-7.233	29.802	-10.806	11.763	96.572
718052.3	8562899.9	1805	2900	-0.016	4026.845	978289.859	-2.935	21.929	-7.952	11.043	71.061
718044.7	8562951.1	1805	2950	-0.016	4027.304	978290.318	-2.458	21.504	-7.797	11.249	69.682
718059.9	8563000.5	1805	3000	-0.017	4028.433	978291.447	-1.311	20.274	-7.351	11.612	65.697
718054.4	8563053.4	1805	3050	-0.017	4028.282	978291.296	-1.443	21.061	-7.637	11.981	68.246
718047.6	8563103.4	1805	3100	-0.017	4028.951	978291.965	-0.756	20.742	-7.521	12.464	67.212
718049.2	8563152.4	1805	3150	-0.017	4029.571	978292.585	-0.119	20.306	-7.363	12.824	65.800
718021.4	8563253.0	1805	3250	-0.017	4029.710	978292.724	0.056	20.618	-7.476	13.198	66.812
718051.0	8563303.0	1805	3300	-0.018	4029.888	978292.902	0.252	20.542	-7.448	13.345	66.564
718053.6	8563352.0	1805	3350	-0.018	4030.247	978293.261	0.629	20.352	-7.380	13.601	65.951
718044.9	8563403.5	1805	3400	-0.018	4030.594	978293.608	0.994	19.993	-7.249	13.737	64.785
718055.7	8563452.0	1805	3450	-0.019	4030.092	978293.106	0.509	20.945	-7.595	13.860	67.871
718050.4	8563498.6	1805	3500	-0.019	4029.890	978292.904	0.324	21.359	-7.745	13.938	69.211
719430.1	8563499.0	1945	3500	-0.015	4026.647	978289.661	-2.915	21.215	-7.693	10.607	68.746
720053.0	8563400.0	2005	3400	-0.012	4026.211	978289.225	-3.385	21.295	-7.722	10.189	69.006
720053.2	8563450.9	2005	3450	-0.012	4026.471	978289.485	-3.107	21.027	-7.625	10.296	68.138
720051.0	8563500.5	2005	3500	-0.012	4027.349	978290.363	-2.211	19.737	-7.157	10.369	63.956
720051.3	8563552.8	2005	3550	-0.012	4026.978	978289.992	-2.563	20.388	-7.393	10.432	66.065
720049.7	8563603.4	2005	3600	-0.011	4027.107	978290.121	-2.416	20.398	-7.396	10.586	66.099
720043.7	8563649.6	2005	3650	-0.011	4027.106	978290.120	-2.401	20.545	-7.450	10.695	66.575
720048.6	8563698.4	2005	3700	-0.011	4026.934	978289.948	-2.555	20.823	-7.551	10.717	67.477
720049.6	8563750.9	2005	3750	-0.011	4026.883	978289.897	-2.588	20.983	-7.609	10.787	67.995
720051.1	8563800.2	2005	3800	-0.011	4026.922	978289.936	-2.531	21.041	-7.630	10.881	68.182
720049.0	8563850.5	2005	3850	-0.010	4026.821	978289.835	-2.614	21.242	-7.702	10.926	68.833
720056.3	8563900.0	2005	3900	-0.010	4026.561	978289.575	-2.856	21.612	-7.837	10.919	70.032
720046.2	8563951.8	2005	3950	-0.010	4026.359	978289.373	-3.040	21.911	-7.945	10.926	71.001
720248.3	8563500.9	2025	3500	-0.005	4026.596	978289.610	-2.963	20.739	-7.520	10.256	67.204
720253.1	8563552.1	2025	3550	-0.005	4026.768	978289.782	-2.773	20.603	-7.471	10.359	66.763
720265.4	8563600.0	2025	3600	-0.006	4026.929	978289.943	-2.595	20.562	-7.456	10.511	66.629
720249.8	8563651.4	2025	3650	-0.006	4027.052	978290.066	-2.454	20.568	-7.458	10.656	66.648
720255.5	8563700.1	2025	3700	-0.006	4026.984	978289.998	-2.504	20.696	-7.504	10.688	67.064
720251.8	8563751.0	2025	3750	-0.006	4026.796	978289.810	-2.674	21.029	-7.625	10.730	68.144
720250.0	8563800.5	2025	3800	-0.006	4026.768	978289.782	-2.684	21.075	-7.642	10.749	68.293
720241.0	8563848.3	2025	3850	-0.006	4026.730	978289.744	-2.705	21.177	-7.679	10.793	68.622
720249.0	8563898.3	2025	3900	-0.007	4026.661	978289.675	-2.756	21.366	-7.747	10.862	69.236
720243.9	8563950.8	2025	3950	-0.007	4026.494	978289.508	-2.905	21.650	-7.850	10.895	70.156
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718648.1	8563505.5	0	201	+0.000	2544.734	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.004	2544.734	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.076	2544.730	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.001	2544.806	978285.343	-7.233	29.802	-10.806	11.763	96.572
717056.1	8562702.6	1705	2700	-0.066	2554.113	978294.726	1.859	19.554	-7.090	14.322	63.363
717048.9	8562747.9	1705	2750	-0.067	2554.747	978295.360	2.509	19.152	-6.945	14.717	62.062
717655.5	8562099.3	1765	2100	-0.039	2547.186	978287.799	-5.282	22.434	-8.135	9.018	72.696
717650.1	8562153.2	1765	2150	-0.039	2547.711	978288.324	-4.738	21.825	-7.914	9.173	70.721
717644.5	8562196.1	1765	2200	-0.040	2548.017	978288.630	-4.416	21.508	-7.799	9.293	69.694
717649.8	8562247.5	1765	2250	-0.040	2548.388	978289.001	-4.027	21.083	-7.645	9.411	68.318
717651.3	8562301.3	1765	2300	-0.041	2548.676	978289.289	-3.720	20.938	-7.592	9.626	67.848
717655.3	8562355.4	1765	2350	-0.041	2548.892	978289.505	-3.484	20.944	-7.595	9.866	67.869
717652.1	8562400.9	1765	2400	-0.042	2549.009	978289.622	-3.351	20.856	-7.563	9.943	67.584
717647.5	8562449.4	1765	2450	-0.043	2549.142	978289.755	-3.201	20.831	-7.554	10.077	67.503
717851.8	8562104.5	1785	2100	-0.037	2546.927	978287.540	-5.538	22.474	-8.149	8.787	72.826
717850.6	8562152.7	1785	2150	-0.037	2547.135	978287.748	-5.313	22.366	-8.110	8.943	72.476
717850.7	8562201.8	1785	2200	-0.036	2547.226	978287.839	-5.205	22.357	-8.107	9.045	72.445
717850.6	8562252.6	1785	2250	-0.036	2547.376	978287.989	-5.037	22.330	-8.097	9.197	72.360
717853.8	8562302.2	1785	2300	-0.035	2547.512	978288.125	-4.883	22.322	-8.094	9.345	72.334
717850.5	8562351.2	1785	2350	-0.035	2547.610	978288.223	-4.767	22.275	-8.077	9.431	72.181
717851.3	8562401.6	1785	2400	-0.034	2546.126	978286.739	-6.233	24.722	-8.964	9.524	80.109
717851.3	8562454.4	1785	2450	-0.033	2543.646	978284.259	-8.694	28.358	-10.283	9.381	91.891

717851.3	8562500.6	1785	2500	-0.031	2543.882	978284.495	-8.442	28.359	-10.283	9.634	91.897
717851.0	8562551.7	1785	2550	-0.031	2544.371	978284.984	-7.935	27.838	-10.094	9.809	90.208
717851.0	8562601.4	1785	2600	-0.030	2544.664	978285.277	-7.624	27.594	-10.006	9.964	89.416
717851.5	8562651.4	1785	2650	-0.030	2544.741	978285.354	-7.529	27.646	-10.024	10.092	89.584
717850.8	8562701.8	1785	2700	-0.029	2545.310	978285.923	-6.942	26.990	-9.787	10.261	87.459
717850.7	8562752.2	1785	2750	-0.028	2545.721	978286.334	-6.513	26.641	-9.660	10.468	86.329
717850.6	8562801.7	1785	2800	-0.028	2545.658	978286.271	-6.559	27.026	-9.800	10.668	87.575
717851.1	8562851.0	1785	2850	-0.027	2545.423	978286.036	-6.776	27.597	-10.007	10.815	89.428
717851.2	8562901.3	1785	2900	-0.026	2546.327	978286.940	-5.854	26.548	-9.626	11.068	86.027
717851.8	8562954.6	1785	2950	-0.025	2549.246	978289.859	-2.916	23.172	-8.402	11.854	75.086
717857.7	8562997.6	1785	3000	-0.024	2550.183	978290.796	-1.964	21.841	-7.919	11.958	70.773
717852.9	8563053.8	1785	3050	-0.022	2551.518	978292.131	-0.609	20.628	-7.480	12.540	66.844
717851.5	8563101.4	1785	3100	-0.021	2552.156	978292.769	0.047	20.282	-7.354	12.974	65.721
717850.7	8563151.5	1785	3150	-0.020	2552.569	978293.182	0.477	20.121	-7.296	13.302	65.201
717830.4	8563204.7	1785	3200	-0.019	2553.760	978294.373	1.687	18.800	-6.817	13.670	60.919
717853.2	8563602.2	1785	3600	-0.016	2553.160	978293.773	1.229	20.913	-7.583	14.559	67.768
717853.3	8563654.0	1785	3650	-0.017	2553.179	978293.792	1.267	21.126	-7.660	14.732	68.456
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718648.1	8563505.5	0	201	+0.000	2545.066	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.007	2545.066	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.099	2545.059	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.004	2545.158	978285.343	-7.233	29.802	-10.806	11.763	96.572
716652.1	8562898.4	1665	2900	-0.062	2556.196	978296.480	3.682	20.380	-7.390	16.672	66.039
716653.4	8562950.6	1665	2950	-0.061	2557.070	978297.354	4.574	19.279	-6.990	16.862	62.471
716659.2	8563006.7	1665	3000	-0.060	2557.282	978297.566	4.806	19.087	-6.921	16.973	61.851
716658.8	8563056.3	1665	3050	-0.058	2557.579	978297.863	5.121	18.730	-6.792	17.060	60.695
716636.4	8563106.4	1665	3100	-0.056	2557.954	978298.238	5.514	18.894	-6.851	17.557	61.224
716664.5	8563147.7	1665	3150	-0.054	2558.200	978298.484	5.775	19.060	-6.911	17.923	61.762
716675.3	8563194.8	1665	3200	-0.052	2558.678	978298.962	6.270	18.860	-6.839	18.291	61.115
716656.9	8563255.1	1665	3250	-0.051	2558.898	978299.182	6.511	18.351	-6.654	18.208	59.465
716659.4	8563320.8	1665	3300	-0.049	2558.670	978298.954	6.307	17.811	-6.458	17.659	57.715
716646.2	8563355.3	1665	3350	-0.046	2558.395	978298.679	6.044	18.185	-6.594	17.635	58.926
716646.0	8563403.3	1665	3400	-0.044	2558.325	978298.609	5.991	18.137	-6.576	17.551	58.771
716652.5	8563452.2	1665	3450	-0.041	2558.656	978298.940	6.339	17.591	-6.379	17.552	57.004
717056.9	8562246.7	1705	2250	-0.007	2550.906	978290.851	-2.179	20.495	-7.432	10.885	66.413
717046.0	8562304.7	1705	2300	-0.088	2550.023	978290.307	-2.702	21.482	-7.789	10.990	69.610
717045.0	8562350.5	1705	2350	-0.087	2550.511	978290.795	-2.198	21.116	-7.657	11.261	68.424
717046.2	8562403.1	1705	2400	-0.085	2551.095	978291.379	-1.595	20.979	-7.607	11.777	67.982
717047.8	8562458.6	1705	2450	-0.084	2551.545	978291.829	-1.125	21.431	-7.771	12.535	69.445
717044.0	8562499.4	1705	2500	-0.083	2551.908	978292.192	-0.748	21.593	-7.830	13.016	69.971
717042.3	8562540.4	1705	2550	-0.082	2552.348	978292.632	-0.293	21.449	-7.777	13.378	69.503
717044.1	8562594.5	1705	2600	-0.079	2553.148	978293.432	0.526	20.689	-7.502	13.714	67.042
717051.2	8562647.1	1705	2650	-0.078	2553.741	978294.025	1.138	20.141	-7.303	13.976	65.267
717056.3	8562702.4	1705	2700	-0.077	2554.382	978294.666	1.799	19.558	-7.092	14.265	63.376
717047.8	8562950.0	1705	2950	-0.073	2556.623	978296.907	4.128	18.183	-6.593	15.718	58.922
717051.1	8562997.7	1705	3000	-0.071	2557.108	978297.392	4.630	17.746	-6.435	15.941	57.505
717055.9	8563059.6	1705	3050	-0.012	2556.729	978297.013	4.273	18.547	-6.725	16.095	60.102
717050.4	8563101.5	1705	3100	-0.014	2557.345	978297.629	4.904	18.392	-6.669	16.627	59.598
717053.3	8563149.8	1705	3150	-0.015	2557.515	978297.799	5.092	18.320	-6.643	16.769	59.366
717054.9	8563203.2	1705	3200	-0.016	2557.537	978297.821	5.133	18.443	-6.688	16.888	59.764
717050.7	8563252.0	1705	3250	-0.017	2557.649	978297.933	5.262	18.635	-6.757	17.140	60.387
717053.9	8563301.1	1705	3300	-0.018	2557.660	978297.944	5.291	18.463	-6.695	17.059	59.828
717054.6	8563349.4	1705	3350	-0.019	2557.784	978298.068	5.432	18.385	-6.666	17.150	59.575
717057.4	8563397.1	1705	3400	-0.020	2557.782	978298.066	5.447	18.321	-6.643	17.125	59.369
717051.8	8563448.2	1705	3450	-0.021	2557.818	978298.102	5.501	18.418	-6.679	17.241	59.684
717052.7	8563493.0	1705	3500	-0.023	2557.382	978297.666	5.081	18.753	-6.800	17.034	60.769
717050.4	8563567.1	1705	3550	-0.025	2557.156	978297.440	4.881	19.186	-6.957	17.111	62.172
717043.4	8563600.9	1705	3600	-0.026	2556.716	978297.000	4.454	19.392	-7.032	16.814	62.838
717050.2	8563645.6	1705	3650	-0.027	2556.071	978296.355	3.825	19.649	-7.125	16.348	63.670
717051.6	8563707.2	1705	3700	-0.028	2555.236	978295.520	3.011	20.326	-7.370	15.967	65.864
717043.7	8563749.4	1705	3750	-0.029	2554.965	978295.249	2.756	20.375	-7.388	15.743	66.025
717049.2	8563800.2	1705	3800	-0.031	2554.932	978295.216	2.741	19.967	-7.240	15.468	64.702
717052.1	8563853.9	1705	3850	-0.031	2554.570	978294.854	2.398	19.890	-7.212	15.076	64.452
717055.5	8563897.5	1705	3900	-0.033	2554.462	978294.746	2.305	19.673	-7.134	14.845	63.750
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718648.1	8563505.5	0	201	+0.000	4022.158	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.019	4022.158	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.021	4022.139	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.281	4022.160	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.030	4022.441	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.010	4022.471	978285.343	-7.233	29.802	-10.806	11.763	96.572
718438.0	8563399.2	1845	3400	-0.268	4027.262	978290.445	-2.170	22.810	-8.271	12.370	73.915
718443.1	8563451.6	1845	3450	-0.264	4027.545	978290.728	-1.868	22.540	-8.173	12.499	73.040
718442.2	8563507.6	1845	3500	-0.262	4026.387	978289.570	-3.006	24.124	-8.748	12.371	78.174
718443.4	8563547.2	1845	3550	-0.258	4026.550	978289.733	-2.829	24.032	-8.714	12.489	77.873
718447.7	8563604.3	1845	3600	-0.254	4024.773	978287.956	-4.585	26.797	-9.717	12.495	86.834
718447.5	8563652.7	1845	3650	-0.249	4024.186	978287.369	-5.155	27.668	-10.032	12.480	89.656
718451.8	8563701.9	1845	3700	-0.247	4023.777	978286.960	-5.547	28.191	-10.222	12.422	91.351
718449.7	8563751.4	1845	3750	-0.244	4023.559	978286.742	-5.747	28.614	-10.376	12.492	92.722
718432.2	8563802.8	1845	3800	-0.241	4023.931	978287.114	-5.357	28.090	-10.186	12.548	91.025
718451.2	8564000.8	1845	4000	-0.226	4026.109	978289.292	-3.108	24.704	-8.958	12.639	80.053
718449.7	8564051.7	1845	4050	-0.224	4026.259	978289.442	-2.940	23.973	-8.693	12.340	77.682
719251.6	8563351.2	1925	3350	-0.173	4027.091	978290.274	-2.355	19.888	-7.212	10.321	64.447

719252.4	8563402.8	1925	3400	-0.167	4023.312	978286.495	-6.116	25.117	-9.108	9.894	81.391
719256.8	8563453.2	1925	3450	-0.162	4022.312	978285.495	-7.098	26.852	-9.737	10.017	87.011
719251.9	8563501.1	1925	3500	-0.159	4022.552	978285.735	-6.841	26.674	-9.672	10.161	86.436
719251.4	8563551.7	1925	3550	-0.156	4022.642	978285.825	-6.733	26.585	-9.640	10.212	86.147
719248.1	8563603.5	1925	3600	-0.154	4022.732	978285.915	-6.624	26.588	-9.641	10.323	86.157
719247.5	8563652.7	1925	3650	-0.152	4023.042	978286.225	-6.297	26.196	-9.499	10.400	84.885
719245.9	8563702.3	1925	3700	-0.147	4025.212	978288.395	-4.109	23.336	-8.462	10.765	75.618
719246.8	8563747.2	1925	3750	-0.142	4025.412	978288.595	-3.893	23.255	-8.432	10.930	75.356
719232.1	8563801.5	1925	3800	-0.139	4025.332	978288.515	-3.954	23.588	-8.553	11.081	76.434
719239.0	8563853.3	1925	3850	-0.137	4025.522	978288.705	-3.745	23.666	-8.581	11.339	76.689
719240.5	8563904.9	1925	3900	-0.134	4025.892	978289.075	-3.357	23.445	-8.501	11.587	75.971
719251.3	8563951.5	1925	3950	-0.132	4026.031	978289.214	-3.201	23.519	-8.528	11.790	76.213
719244.0	8564001.5	1925	4000	-0.130	4025.991	978289.174	-3.223	23.690	-8.590	11.877	76.766
719239.4	8564050.9	1925	4050	-0.128	4025.761	978288.944	-3.436	24.091	-8.735	11.920	78.065
719243.0	8564102.3	1925	4100	-0.126	4025.771	978288.954	-3.408	24.115	-8.744	11.963	78.144
719234.5	8564151.7	1925	4150	-0.123	4025.971	978289.154	-3.190	23.980	-8.695	12.095	77.705
719230.3	8564198.3	1925	4200	-0.121	4025.970	978289.153	-3.174	23.978	-8.694	12.109	77.698
719250.0	8564237.8	1925	4250	-0.118	4025.990	978289.173	-3.140	23.957	-8.687	12.130	77.632
719250.9	8564292.7	1925	4300	-0.112	4025.770	978288.953	-3.341	24.386	-8.843	12.203	79.022
719257.0	8564353.0	1925	4350	-0.109	4025.320	978288.503	-3.769	24.829	-9.003	12.057	80.457
719248.2	8564401.0	1925	4400	-0.106	4025.190	978288.373	-3.882	25.144	-9.117	12.145	81.479
719240.1	8564450.3	1925	4450	-0.088	4025.029	978288.212	-4.025	25.487	-9.242	12.220	82.589
719429.9	8563498.5	1945	3500	-0.028	4026.417	978289.600	-2.976	21.210	-7.691	10.543	68.731
719451.4	8563549.0	1945	3550	-0.034	4026.456	978289.639	-2.919	21.293	-7.721	10.653	68.999
719447.9	8563606.5	1945	3600	-0.036	4026.225	978289.408	-3.130	21.591	-7.829	10.632	69.963
719440.3	8563652.4	1945	3650	-0.040	4026.144	978289.327	-3.194	21.819	-7.912	10.713	70.703
719444.5	8563704.7	1945	3700	-0.042	4026.074	978289.257	-3.246	21.966	-7.965	10.755	71.180
719450.8	8563753.1	1945	3750	-0.044	4026.044	978289.227	-3.258	22.062	-8.000	10.804	71.490
719459.6	8563803.0	1945	3800	-0.046	4026.003	978289.186	-3.282	22.206	-8.052	10.872	71.956
719459.1	8563852.6	1945	3850	-0.049	4026.042	978289.225	-3.225	22.366	-8.110	11.031	72.475
719460.7	8563901.7	1945	3900	-0.051	4026.052	978289.235	-3.197	22.621	-8.203	11.221	73.303
719451.3	8563952.1	1945	3950	-0.053	4026.112	978289.295	-3.119	22.870	-8.293	11.458	74.109
719454.2	8564003.4	1945	4000	-0.055	4026.332	978289.515	-2.881	22.974	-8.331	11.763	74.447
719434.9	8564048.8	1945	4050	-0.057	4026.341	978289.524	-2.856	23.136	-8.389	11.891	74.971
719445.5	8564103.1	1945	4100	-0.060	4026.430	978289.613	-2.748	23.055	-8.360	11.948	74.709
719453.7	8564152.4	1945	4150	-0.062	4026.310	978289.493	-2.850	23.253	-8.432	11.971	75.349
719463.3	8564203.7	1945	4200	-0.064	4026.100	978289.283	-3.042	23.665	-8.581	12.042	76.684
719462.3	8564252.5	1945	4250	-0.067	4025.890	978289.073	-3.234	23.993	-8.700	12.059	77.747
719459.8	8564303.5	1945	4300	-0.069	4025.650	978288.833	-3.456	24.356	-8.832	12.068	78.924
719462.8	8564354.6	1945	4350	-0.071	4025.220	978288.403	-3.868	24.621	-8.928	11.825	79.782
719437.2	8564403.5	1945	4400	-0.074	4024.819	978288.002	-4.252	24.882	-9.022	11.608	80.629
719454.0	8564457.1	1945	4450	-0.076	4024.580	978287.763	-4.471	25.245	-9.154	11.620	81.806
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718648.1	8563505.5	0	201	+0.000	2545.397	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.001	2545.397	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.060	2545.398	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.002	2545.458	978285.343	-7.233	29.802	-10.806	11.763	96.572
716052.4	8560598.3	1605	0600	-0.023	2548.465	978288.410	-5.212	25.148	-9.119	10.818	81.490
716049.3	8560653.2	1605	0650	-0.024	2547.987	978287.932	-5.670	25.824	-9.364	10.790	83.681
716054.5	8560701.7	1605	0700	-0.025	2548.031	978287.976	-5.609	25.789	-9.351	10.829	83.567
716050.9	8560753.3	1605	0750	-0.026	2548.502	978288.447	-5.119	25.179	-9.130	10.930	81.590
716047.1	8560801.0	1605	0800	-0.027	2548.979	978288.924	-4.625	24.556	-8.904	11.027	79.573
716048.7	8560848.6	1605	0850	-0.027	2549.155	978289.100	-4.432	24.068	-8.727	10.909	77.991
716053.9	8560900.6	1605	0900	-0.028	2549.378	978289.323	-4.191	23.934	-8.679	11.065	77.557
716064.6	8560954.3	1605	0950	-0.029	2549.419	978289.364	-4.130	24.086	-8.734	11.222	78.050
716050.2	8561000.2	1605	1000	-0.029	2549.892	978289.837	-3.641	23.813	-8.635	11.537	77.164
716042.5	8561059.0	1605	1050	-0.030	2550.309	978290.254	-3.203	23.706	-8.596	11.907	76.819
716064.2	8561102.7	1605	1100	-0.032	2550.045	978289.990	-3.451	23.422	-8.493	11.478	75.898
716047.0	8561156.4	1605	1150	-0.033	2550.738	978290.683	-2.739	23.196	-8.411	12.046	75.165
716053.7	8561200.4	1605	1200	-0.033	2551.155	978291.100	-2.306	23.170	-8.401	12.462	75.080
716052.9	8561254.0	1605	1250	-0.034	2551.671	978291.616	-1.771	23.111	-8.380	12.960	74.891
716054.3	8561297.6	1605	1300	-0.035	2551.837	978291.782	-1.590	23.163	-8.399	13.174	75.058
716056.7	8561346.9	1605	1350	-0.035	2551.848	978291.793	-1.561	23.190	-8.409	13.220	75.146
716049.7	8561397.6	1605	1400	-0.036	2551.959	978291.904	-1.432	23.275	-8.440	13.404	75.422
716052.7	8561460.0	1605	1450	-0.036	2552.223	978292.168	-1.146	23.411	-8.489	13.777	75.863
716048.5	8561504.9	1605	1500	-0.037	2552.144	978292.089	-1.209	23.511	-8.525	13.777	76.186
716036.6	8561551.2	1605	1550	-0.037	2552.428	978292.373	-0.908	23.485	-8.516	14.061	76.101
716051.2	8561601.3	1605	1600	-0.038	2552.392	978292.337	-0.926	23.559	-8.543	14.090	76.343
716074.3	8561652.4	1605	1650	-0.039	2552.422	978292.367	-0.878	23.577	-8.549	14.150	76.401
716080.3	8561700.8	1605	1700	-0.039	2552.531	978292.476	-0.752	23.569	-8.546	14.271	76.374
716060.7	8561747.8	1605	1750	-0.042	2552.618	978292.563	-0.648	23.701	-8.594	14.459	76.801
716035.0	8561801.8	1605	1800	-0.042	2552.944	978292.889	-0.303	23.855	-8.650	14.903	77.302
716044.8	8561846.4	1605	1850	-0.043	2553.091	978293.036	-0.140	23.808	-8.633	15.036	77.150
716070.8	8561901.9	1605	1900	-0.044	2553.345	978293.290	0.134	23.634	-8.570	15.198	76.583
716053.3	8561945.6	1605	1950	-0.045	2553.611	978293.556	0.416	23.567	-8.546	15.437	76.368
716049.7	8562003.0	1605	2000	-0.046	2553.751	978293.696	0.576	23.560	-8.543	15.593	76.345
716041.4	8562047.4	1605	2050	-0.047	2553.953	978293.898	0.794	23.559	-8.543	15.811	76.342
716052.3	8562117.0	1605	2100	-0.048	2554.349	978294.294	1.215	23.107	-8.379	15.944	74.878
716050.3	8562150.7	1605	2150	-0.048	2554.572	978294.517	1.450	23.085	-8.371	16.164	74.806
716049.4	8562191.5	1605	2200	-0.049	2554.580	978294.525	1.473	23.438	-8.499	16.412	75.950
716056.0	8562263.2	1605	2250	-0.049	2555.389	978295.334	2.307	23.116	-8.382	17.042	74.907
716053.1	8562302.8	1605	2300	-0.051	2555.663	978295.608	2.595	23.418	-8.492	17.522	75.885
716052.0	8562355.8	1605	2350	-0.054	2555.451	978295.396	2.402	23.531	-8.533	17.401	76.252

716050.7	8562401.8	1605	2400	-0.056	2555.452	978295.397	2.420	23.509	-8.524	17.404	76.179
717051.4	8560901.4	1705	0900	-0.020	2545.550	978285.495	-8.015	25.019	-9.072	7.932	81.073
717048.8	8561099.5	1705	1100	-0.019	2546.695	978286.640	-6.800	23.470	-8.510	8.160	76.054
717051.5	8561150.0	1705	1150	-0.018	2546.858	978286.803	-6.619	23.271	-8.438	8.214	75.408
717051.2	8561200.5	1705	1200	-0.018	2547.044	978286.989	-6.415	23.147	-8.393	8.339	75.007
717051.1	8561251.4	1705	1250	-0.018	2547.260	978287.205	-6.180	22.909	-8.307	8.422	74.234
717049.6	8561301.9	1705	1300	-0.017	2547.513	978287.458	-5.909	22.646	-8.211	8.525	73.382
717050.7	8561354.9	1705	1350	-0.016	2547.715	978287.660	-5.688	22.442	-8.137	8.616	72.721
717047.5	8561399.0	1705	1400	-0.016	2547.962	978287.907	-5.426	22.114	-8.019	8.670	71.660
717050.7	8561452.7	1705	1450	-0.015	2548.115	978288.060	-5.253	21.887	-7.936	8.697	70.922
717050.1	8561501.8	1705	1500	-0.015	2548.519	978288.464	-4.832	21.408	-7.763	8.814	69.372
717038.2	8561552.1	1705	1550	-0.014	2548.661	978288.606	-4.672	21.391	-7.757	8.963	69.317
717049.1	8561604.1	1705	1600	-0.014	2548.687	978288.632	-4.627	21.459	-7.781	9.051	69.537
717049.4	8561651.2	1705	1650	-0.013	2548.713	978288.658	-4.585	21.517	-7.802	9.130	69.724
717051.9	8561703.3	1705	1700	-0.013	2548.861	978288.806	-4.418	21.505	-7.798	9.290	69.687
717051.1	8561751.4	1705	1750	-0.013	2548.914	978288.859	-4.348	21.576	-7.823	9.405	69.915
717050.7	8561802.8	1705	1800	-0.012	2549.129	978289.074	-4.114	21.421	-7.767	9.539	69.414
717048.0	8561849.3	1705	1850	-0.011	2549.260	978289.205	-3.967	21.436	-7.773	9.696	69.461
717049.8	8561902.1	1705	1900	-0.011	2549.429	978289.374	-3.779	21.359	-7.745	9.836	69.214
717053.4	8561952.1	1705	1950	-0.010	2549.565	978289.510	-3.625	21.340	-7.738	9.977	69.151
717049.1	8562001.1	1705	2000	-0.010	2549.729	978289.674	-3.444	21.328	-7.734	10.151	69.111
717043.4	8562051.5	1705	2050	-0.009	2550.025	978289.970	-3.130	21.161	-7.673	10.358	68.570
717050.2	8562104.5	1705	2100	-0.009	2550.531	978290.476	-2.605	20.605	-7.471	10.529	66.769
717049.5	8562154.7	1705	2150	-0.008	2551.121	978291.066	-1.997	19.945	-7.232	10.716	64.630
717049.3	8562204.6	1705	2200	-0.007	2551.133	978291.078	-1.967	20.206	-7.327	10.912	65.475
717056.9	8562246.7	1705	2250	-0.007	2550.975	978290.920	-2.110	20.495	-7.432	10.954	66.413
717046.4	8562304.4	1705	2300	-0.006	2550.376	978290.321	-2.688	21.486	-7.791	11.007	69.625
/D352											
718648.1	8563505.5	0	201	+0.000	4022.062	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.010	4022.062	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.059	4022.052	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.011	4021.993	978285.343	-7.233	29.802	-10.806	11.763	96.572
717850.5	8562351.2	1785	2350	+0.053	4024.991	978288.282	-4.708	22.243	-8.065	9.469	72.077
718044.4	8562257.2	1805	2250	+0.050	4024.029	978287.320	-5.703	23.274	-8.439	9.131	75.418
718661.8	8562099.4	1865	2100	+0.047	4025.684	978288.975	-4.103	19.945	-7.232	8.610	64.629
719056.9	8562299.7	1905	2300	+0.033	4024.100	978287.391	-5.614	22.751	-8.250	8.887	73.723
719059.7	8562352.5	1905	2350	+0.032	4024.106	978287.397	-5.589	22.954	-8.323	9.042	74.382
719042.8	8562403.3	1905	2400	+0.032	4024.172	978287.463	-5.505	23.033	-8.352	9.176	74.636
719040.3	8562449.4	1905	2450	+0.031	4024.257	978287.548	-5.404	23.076	-8.368	9.305	74.778
719053.5	8562503.1	1905	2500	+0.030	4024.319	978287.610	-5.323	23.154	-8.396	9.435	75.028
719038.7	8562550.0	1905	2550	+0.029	4024.544	978287.835	-5.081	23.039	-8.354	9.604	74.655
719045.5	8562600.1	1905	2600	+0.028	4024.631	978287.922	-4.976	22.992	-8.337	9.679	74.505
719053.8	8562649.2	1905	2650	+0.024	4024.702	978287.993	-4.888	22.941	-8.319	9.735	74.339
719244.7	8562403.9	1925	2400	+0.035	4023.891	978287.182	-5.786	23.297	-8.448	9.064	75.494
719250.5	8562452.1	1925	2450	+0.036	4023.997	978287.288	-5.662	23.357	-8.469	9.226	75.688
719253.4	8562500.9	1925	2500	+0.016	4024.071	978287.362	-5.571	23.268	-8.437	9.260	75.397
719255.2	8562552.6	1925	2550	+0.017	4024.234	978287.525	-5.389	23.245	-8.429	9.427	75.323
719249.1	8562603.5	1925	2600	+0.018	4024.339	978287.630	-5.266	23.134	-8.389	9.479	74.965
719242.5	8562652.4	1925	2650	+0.018	4024.581	978287.872	-5.007	22.993	-8.337	9.649	74.506
719249.0	8562702.3	1925	2700	+0.019	4024.713	978288.004	-4.857	22.749	-8.249	9.643	73.716
719247.1	8562751.9	1925	2750	+0.019	4024.895	978288.186	-4.657	22.593	-8.192	9.743	73.210
719254.7	8562802.7	1925	2800	+0.019	4024.917	978288.208	-4.617	22.398	-8.122	9.660	72.581
719244.0	8562852.9	1925	2850	+0.020	4025.050	978288.341	-4.466	22.274	-8.076	9.731	72.176
719249.4	8562903.9	1925	2900	+0.020	4025.242	978288.533	-4.256	22.043	-7.993	9.794	71.428
719247.2	8562952.5	1925	2950	+0.021	4025.475	978288.766	-4.006	21.849	-7.922	9.921	70.799
719253.7	8563002.1	1925	3000	+0.021	4025.668	978288.959	-3.795	21.679	-7.861	10.023	70.249
/D353											
718648.1	8563505.5	0	201	+0.001	2545.725	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.107	2545.724	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.002	2545.831	978285.343	-7.233	29.802	-10.806	11.763	96.572
715649.0	8562300.1	1565	2300	-0.094	2555.964	978295.583	2.568	24.594	-8.918	18.245	79.696
715654.9	8562337.3	1565	2350	-0.088	2556.359	978295.978	2.977	24.411	-8.851	18.536	79.101
715638.3	8562512.7	1565	2500	-0.082	2557.164	978296.783	3.844	24.186	-8.770	19.260	78.374
715670.2	8562651.9	1565	2650	-0.078	2557.108	978296.727	3.838	23.946	-8.683	19.101	77.594
715641.7	8562902.8	1565	2900	-0.069	2557.780	978297.399	4.600	23.581	-8.551	19.630	76.413
715661.1	8562955.3	1565	2950	-0.067	2557.517	978297.136	4.355	23.597	-8.556	19.396	76.465
715654.4	8562994.4	1565	3000	-0.065	2557.472	978297.091	4.324	23.611	-8.561	19.374	76.509
715639.3	8563055.3	1565	3050	-0.064	2557.109	978296.728	3.983	24.365	-8.835	19.513	78.952
715643.2	8563095.8	1565	3100	-0.062	2556.790	978296.409	3.678	24.274	-8.802	19.150	78.658
715650.7	8563142.8	1565	3150	-0.061	2556.620	978296.239	3.525	24.169	-8.764	18.930	78.317
715661.3	8563209.1	1565	3200	-0.060	2556.889	978296.508	3.818	23.791	-8.627	18.982	77.094
716049.9	8562401.4	1605	2400	-0.032	2555.744	978295.363	2.386	23.512	-8.526	17.372	76.190
716051.6	8562451.5	1605	2450	-0.034	2555.875	978295.494	2.535	23.567	-8.545	17.556	76.366
716053.7	8562500.8	1605	2500	-0.035	2556.044	978295.663	2.721	23.443	-8.500	17.663	75.965
716067.2	8562550.5	1605	2550	-0.038	2556.288	978295.907	2.983	22.990	-8.336	17.637	74.497
716056.6	8562607.6	1605	2600	-0.039	2556.446	978296.065	3.161	22.868	-8.292	17.737	74.101
716035.0	8562654.1	1605	2650	-0.040	2556.334	978295.953	3.066	23.159	-8.398	17.827	75.045
716045.3	8562717.9	1605	2700	-0.041	2556.346	978295.965	3.101	23.455	-8.505	18.051	76.006
716060.5	8562747.0	1605	2750	-0.042	2556.298	978295.917	3.063	23.788	-8.626	18.225	77.084
716057.2	8562802.9	1605	2800	-0.043	2557.075	978296.694	3.860	22.307	-8.088	18.078	72.283
716059.0	8562854.4	1605	2850	-0.044	2557.187	978296.806	3.990	21.825	-7.914	17.902	70.723
716069.3	8562909.0	1605	2900	-0.045	2556.643	978296.262	3.466	22.663	-8.218	17.911	73.437
716055.1	8562958.0	1605	2950	-0.047	2556.104	978295.723	2.944	23.684	-8.588	18.040	76.746

716047.0	8563026.8	1605	3000	-0.048	2555.265	978294.884	2.130	24.783	-8.987	17.927	80.309
716048.3	8563065.8	1605	3050	-0.049	2555.242	978294.861	2.121	24.894	-9.027	17.988	80.667
716040.8	8563105.1	1605	3100	-0.049	2554.992	978294.611	1.885	24.933	-9.041	17.777	80.794
716050.4	8563166.3	1605	3150	-0.050	2555.373	978294.992	2.288	24.019	-8.709	17.597	77.832
716053.3	8563200.0	1605	3200	-0.051	2555.462	978295.081	2.389	22.259	-8.071	16.577	72.129
716043.6	8563246.8	1605	3250	-0.052	2555.940	978295.559	2.883	23.278	-8.441	17.721	75.431
716045.8	8563301.2	1605	3300	-0.053	2556.401	978296.020	3.364	22.532	-8.170	17.726	73.013
716059.2	8563350.1	1605	3350	-0.054	2556.604	978296.223	3.584	22.148	-8.031	17.702	71.770
716052.3	8563401.2	1605	3400	-0.055	2556.979	978296.598	3.978	21.635	-7.845	17.768	70.107
/D353											
718648.1	8563505.5	0	201	+0.000	4022.015	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.010	4022.015	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.044	4022.005	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.009	4021.961	978285.343	-7.233	29.802	-10.806	11.763	96.572
715650.9	8560410.1	1565	0400	+0.015	4031.887	978295.225	1.535	20.175	-7.316	14.394	65.376
715650.6	8560450.1	1565	0450	+0.016	4031.900	978295.238	1.562	20.348	-7.378	14.532	65.938
715647.2	8560507.1	1565	0500	+0.016	4031.983	978295.321	1.666	20.510	-7.437	14.739	66.461
715661.4	8560551.2	1565	0550	+0.017	4031.926	978295.264	1.625	20.566	-7.457	14.733	66.642
715653.7	8560601.6	1565	0600	+0.017	4031.840	978295.178	1.557	20.588	-7.465	14.679	66.713
715651.9	8560650.4	1565	0650	+0.018	4031.514	978294.852	1.248	20.796	-7.541	14.503	67.389
715645.5	8560698.8	1565	0700	+0.018	4031.287	978294.625	1.038	20.799	-7.542	14.295	67.397
715651.5	8560753.4	1565	0750	+0.019	4031.231	978294.569	1.002	20.857	-7.563	14.296	67.587
715662.2	8560809.6	1565	0800	+0.019	4030.464	978293.802	0.255	21.212	-7.691	13.775	68.735
715666.9	8560855.3	1565	0850	+0.019	4030.727	978294.065	0.534	21.058	-7.636	13.957	68.238
715660.8	8560897.6	1565	0900	+0.020	4031.001	978294.339	0.823	20.975	-7.606	14.193	67.969
715654.8	8560943.2	1565	0950	+0.020	4031.305	978294.643	1.144	20.848	-7.559	14.432	67.556
715641.3	8561002.1	1565	1000	+0.021	4031.619	978294.957	1.479	20.591	-7.466	14.603	66.724
715642.7	8561052.8	1565	1050	+0.021	4031.642	978294.980	1.520	20.686	-7.501	14.705	67.033
715638.1	8561105.0	1565	1100	+0.022	4031.416	978294.754	1.312	21.092	-7.648	14.756	68.347
715662.6	8561148.3	1565	1150	+0.022	4031.130	978294.468	1.042	21.331	-7.735	14.638	69.122
715662.1	8561206.2	1565	1200	+0.023	4030.844	978294.182	0.777	21.554	-7.815	14.515	69.843
715657.2	8561252.5	1565	1250	+0.023	4030.867	978294.205	0.816	21.811	-7.909	14.718	70.676
715645.7	8561301.0	1565	1300	+0.023	4030.880	978294.218	0.846	21.985	-7.972	14.860	71.242
715643.7	8561354.6	1565	1350	+0.025	4030.989	978294.327	0.975	22.144	-8.029	15.089	71.755
715639.5	8561404.0	1565	1400	+0.026	4031.158	978294.496	1.161	22.298	-8.085	15.374	72.255
715655.7	8561458.9	1565	1450	+0.028	4031.179	978294.517	1.202	22.560	-8.180	15.582	73.105
715668.1	8561500.4	1565	1500	+0.029	4030.738	978294.076	0.776	24.043	-8.718	16.100	77.909
715646.9	8561552.1	1565	1550	+0.031	4030.602	978293.940	0.658	23.680	-8.586	15.752	76.733
715654.7	8561701.0	1565	1700	+0.033	4030.968	978294.306	1.077	24.537	-8.897	16.717	79.512
715651.7	8561752.4	1565	1750	+0.034	4030.993	978294.331	1.121	24.459	-8.869	16.711	79.259
715644.3	8561801.3	1565	1800	+0.034	4031.056	978294.394	1.201	24.385	-8.842	16.744	79.018
715652.8	8561851.0	1565	1850	+0.034	4031.318	978294.656	1.481	24.221	-8.783	16.920	78.488
715635.3	8561944.9	1565	1950	+0.035	4031.506	978294.844	1.702	24.566	-8.908	17.361	79.606
715642.5	8562002.1	1565	2000	+0.036	4031.710	978295.048	1.927	24.182	-8.769	17.341	78.361
715651.1	8562054.4	1565	2050	+0.036	4031.723	978295.061	1.959	24.163	-8.762	17.360	78.298
715652.1	8562102.3	1565	2100	+0.037	4031.769	978295.107	2.022	24.163	-8.762	17.423	78.299
715649.0	8562300.4	1565	2300	+0.039	4032.266	978295.604	2.589	24.573	-8.910	18.252	79.627
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718648.1	8563505.5	0	201	+0.000	2546.090	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.007	2546.090	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.048	2546.083	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.001	2546.131	978285.343	-7.233	29.802	-10.806	11.763	96.572
715250.5	8560940.5	1525	0950	-0.034	2557.055	978296.315	2.814	20.141	-7.303	15.652	65.267
715263.1	8561005.2	1525	1000	-0.033	2556.584	978295.844	2.366	20.644	-7.486	15.524	66.896
715255.4	8561050.7	1525	1050	-0.033	2556.372	978295.632	2.170	21.030	-7.626	15.575	68.148
715258.5	8561099.0	1525	1100	-0.032	2556.291	978295.551	2.106	21.310	-7.727	15.689	69.054
715241.1	8561150.9	1525	1150	-0.031	2556.422	978295.682	2.256	21.530	-7.807	15.979	69.768
715241.6	8561205.1	1525	1200	-0.031	2556.561	978295.821	2.414	21.673	-7.859	16.228	70.230
715232.3	8561259.7	1525	1250	-0.030	2556.782	978296.042	2.655	21.929	-7.952	16.632	71.060
715251.3	8561299.6	1525	1300	-0.029	2556.793	978296.053	2.680	22.056	-7.998	16.738	71.472
715253.0	8561349.4	1525	1350	-0.029	2556.714	978295.974	2.619	22.297	-8.085	16.831	72.253
715248.9	8561399.7	1525	1400	-0.029	2556.701	978295.961	2.624	22.502	-8.160	16.967	72.918
715249.7	8561452.6	1525	1450	-0.028	2556.722	978295.982	2.664	22.667	-8.219	17.111	73.451
715252.0	8561501.8	1525	1500	-0.028	2556.572	978295.832	2.531	23.034	-8.352	17.213	74.641
715253.2	8561554.2	1525	1550	-0.027	2556.527	978295.787	2.505	23.261	-8.435	17.331	75.376
715260.4	8561605.6	1525	1600	-0.027	2555.444	978294.704	1.440	24.687	-8.952	17.176	79.997
715253.2	8561652.4	1525	1650	-0.026	2555.626	978294.886	1.639	24.896	-9.027	17.507	80.673
715248.9	8561707.7	1525	1700	-0.025	2555.973	978295.233	2.006	24.660	-8.942	17.724	79.908
715242.0	8561751.6	1525	1750	-0.025	2556.421	978295.681	2.469	24.125	-8.748	17.847	78.177
715236.6	8561802.2	1525	1800	-0.024	2556.858	978296.118	2.924	23.697	-8.593	18.029	76.789
715239.0	8561853.2	1525	1850	-0.024	2557.022	978296.282	3.107	23.519	-8.528	18.098	76.212
715257.2	8561908.1	1525	1900	-0.023	2557.117	978296.377	3.221	23.559	-8.543	18.238	76.342
715247.9	8561948.8	1525	1950	-0.023	2557.304	978296.564	3.423	23.556	-8.542	18.438	76.333
715246.2	8562002.8	1525	2000	-0.021	2557.564	978296.824	3.702	23.552	-8.540	18.714	76.318
715241.5	8562055.8	1525	2050	-0.021	2557.964	978297.224	4.121	23.360	-8.470	19.010	75.696
715258.6	8562099.7	1525	2100	-0.020	2558.292	978297.552	4.465	23.336	-8.462	19.339	75.618
715257.6	8562147.0	1525	2150	-0.020	2558.619	978297.879	4.809	23.300	-8.449	19.660	75.503
715259.8	8562200.7	1525	2200	-0.019	2558.672	978297.932	4.881	23.426	-8.494	19.812	75.911
715252.0	8562251.3	1525	2250	-0.018	2558.676	978297.936	4.903	23.553	-8.541	19.916	76.323
715251.0	8562307.6	1525	2300	-0.018	2558.932	978298.192	5.179	23.374	-8.476	20.077	75.742
715242.2	8562352.7	1525	2350	-0.017	2559.109	978298.369	5.372	23.226	-8.422	20.176	75.262
715245.6	8562401.0	1525	2400	-0.017	2559.247	978298.507	5.527	23.113	-8.381	20.259	74.895
715251.1	8562442.0	1525	2450	-0.016	2559.403	978298.663	5.698	23.013	-8.345	20.366	74.572

715264.3	8562501.5	1525	2500	-0.016	2559.517	978298.777	5.833	23.006	-8.342	20.497	74.548
715244.2	8562557.6	1525	2550	-0.015	2559.750	978299.010	6.086	22.751	-8.250	20.587	73.723
715246.5	8562597.2	1525	2600	-0.013	2559.919	978299.179	6.269	22.332	-8.098	20.504	72.365
715255.8	8562634.9	1525	2650	-0.013	2559.740	978299.000	6.104	22.569	-8.183	20.489	73.132
715256.0	8562677.6	1525	2700	-0.012	2559.631	978298.891	6.010	22.629	-8.205	20.434	73.328
715253.8	8562747.2	1525	2750	-0.011	2559.493	978298.753	5.897	22.703	-8.232	20.368	73.569
715252.6	8562804.9	1525	2800	-0.010	2559.367	978298.627	5.791	22.800	-8.267	20.324	73.882
715247.7	8562860.3	1525	2850	-0.009	2559.412	978298.672	5.856	22.742	-8.246	20.352	73.694
715263.3	8562900.0	1525	2900	-0.008	2559.151	978298.411	5.609	22.841	-8.282	20.168	74.015
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718648.1	8563505.5	0	201	+0.000	4021.903	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.008	4021.903	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.177	4021.911	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.007	4022.088	978285.343	-7.233	29.802	-10.806	11.763	96.572
715250.6	8560003.4	1525	0000	-0.105	4032.605	978296.037	2.201	21.144	-7.667	15.678	68.516
715257.0	8560052.8	1525	0050	-0.107	4032.586	978296.018	2.199	20.991	-7.611	15.579	68.019
715253.3	8560101.5	1525	0100	-0.109	4032.757	978296.189	2.388	20.766	-7.530	15.624	67.292
715249.0	8560149.7	1525	0150	-0.111	4032.798	978296.230	2.446	20.674	-7.496	15.623	66.992
715247.7	8560199.4	1525	0200	-0.113	4032.868	978296.300	2.534	20.491	-7.430	15.594	66.399
715249.5	8560251.2	1525	0250	-0.115	4033.039	978296.471	2.723	20.310	-7.364	15.668	65.812
715248.6	8560302.4	1525	0300	-0.119	4033.181	978296.613	2.883	20.080	-7.281	15.683	65.069
715248.6	8560350.4	1525	0350	-0.122	4033.423	978296.855	3.143	19.824	-7.188	15.779	64.240
715249.0	8560399.7	1525	0400	-0.124	4033.675	978297.107	3.412	19.625	-7.116	15.921	63.595
715247.2	8560452.8	1525	0450	-0.127	4033.926	978297.358	3.682	19.327	-7.008	16.001	62.629
715241.3	8560847.3	1525	0850	-0.151	4032.982	978296.414	2.879	19.396	-7.033	15.242	62.850

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718648.1	8563505.5	0	201	+0.000	2348.520	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.005	2348.520	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.010	2348.525	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.000	2348.515	978285.343	-7.233	29.802	-10.806	11.763	96.572
716203.0	8561503.5	1620	1500	+0.003	2354.093	978290.911	-2.387	23.969	-8.691	12.891	77.670
716203.7	8561522.4	1620	1525	+0.004	2354.114	978290.932	-2.359	23.910	-8.670	12.881	77.480
716208.0	8561543.0	1620	1550	+0.004	2354.179	978290.997	-2.287	23.878	-8.658	12.933	77.374
716203.2	8561571.4	1620	1575	+0.004	2354.504	978291.322	-1.951	23.776	-8.621	13.204	77.046
716202.9	8561596.7	1620	1600	+0.004	2354.684	978291.502	-1.762	23.755	-8.614	13.379	76.978
716206.6	8561624.9	1620	1625	+0.004	2354.759	978291.577	-1.677	23.682	-8.587	13.418	76.741
716202.1	8561648.4	1620	1650	+0.004	2354.939	978291.757	-1.489	23.568	-8.546	13.534	76.372
716207.5	8561672.9	1620	1675	+0.004	2355.054	978291.872	-1.365	23.430	-8.496	13.569	75.924
716205.0	8561698.4	1620	1700	+0.004	2355.139	978291.957	-1.271	23.298	-8.448	13.579	75.495
716203.0	8561733.2	1620	1725	+0.004	2355.449	978292.267	-0.949	23.018	-8.347	13.723	74.590
716205.5	8561749.3	1620	1750	+0.005	2355.610	978292.428	-0.782	22.847	-8.284	13.781	74.035
716205.4	8561779.1	1620	1775	+0.005	2355.750	978292.568	-0.631	22.804	-8.269	13.904	73.895
716206.9	8561800.5	1620	1800	+0.005	2355.925	978292.743	-0.449	22.653	-8.214	13.991	73.407
716203.2	8561825.1	1620	1825	+0.005	2356.040	978292.858	-0.325	22.628	-8.205	14.098	73.325
716203.3	8561858.0	1620	1850	+0.005	2356.190	978293.008	-0.163	22.632	-8.207	14.263	73.339
716211.2	8561881.8	1620	1875	+0.005	2356.270	978293.088	-0.075	22.592	-8.192	14.325	73.207
716200.8	8561899.9	1620	1900	+0.005	2356.315	978293.133	-0.023	22.667	-8.219	14.425	73.452
716199.8	8561925.6	1620	1925	+0.005	2356.405	978293.223	0.076	22.647	-8.212	14.511	73.386
716201.4	8561947.1	1620	1950	+0.005	2356.350	978293.168	0.029	22.796	-8.266	14.559	73.868
716200.0	8561975.7	1620	1975	+0.005	2356.530	978293.348	0.219	22.729	-8.242	14.707	73.653
716201.3	8561999.1	1620	2000	+0.005	2356.570	978293.388	0.267	22.774	-8.258	14.783	73.798
716202.0	8562025.4	1620	2025	+0.006	2356.556	978293.374	0.263	22.808	-8.270	14.801	73.909
716201.6	8562051.2	1620	2050	+0.006	2356.761	978293.579	0.477	22.748	-8.249	14.977	73.715
716202.5	8562076.6	1620	2075	+0.006	2356.956	978293.774	0.681	22.749	-8.249	15.181	73.716
716200.3	8562099.5	1620	2100	+0.006	2357.111	978293.929	0.844	22.728	-8.241	15.331	73.648
716195.8	8562125.3	1620	2125	+0.006	2357.166	978293.984	0.908	22.798	-8.266	15.439	73.874
716198.2	8562148.8	1620	2150	+0.006	2357.201	978294.019	0.952	22.846	-8.284	15.514	74.030
716201.0	8562174.8	1620	2175	+0.006	2357.456	978294.274	1.216	22.785	-8.262	15.739	73.834
716199.7	8562198.8	1620	2200	+0.006	2357.966	978294.784	1.735	22.261	-8.072	15.924	72.137
716200.3	8562226.3	1620	2225	+0.006	2357.851	978294.669	1.630	22.541	-8.173	15.997	73.043
716198.6	8562247.8	1620	2250	+0.006	2357.871	978294.689	1.657	22.835	-8.280	16.213	73.997
716199.1	8562275.8	1620	2275	+0.006	2358.051	978294.869	1.847	22.909	-8.307	16.449	74.234
716199.6	8562299.5	1620	2300	+0.006	2358.446	978295.264	2.251	22.469	-8.147	16.572	72.809
716198.3	8562325.9	1620	2325	+0.007	2358.812	978295.630	2.626	22.229	-8.060	16.795	72.032
716199.9	8562350.1	1620	2350	+0.007	2358.757	978295.575	2.580	22.481	-8.152	16.909	72.848
716201.6	8562375.2	1620	2375	+0.007	2358.622	978295.440	2.454	22.927	-8.314	17.067	74.295
716200.5	8562400.4	1620	2400	+0.007	2358.632	978295.450	2.473	23.066	-8.364	17.175	74.743
716199.3	8562423.4	1620	2425	+0.007	2359.292	978296.110	3.141	22.343	-8.102	17.382	72.402
716199.7	8562451.3	1620	2450	+0.007	2359.437	978296.255	3.296	22.281	-8.079	17.498	72.201
716197.1	8562477.4	1620	2475	+0.007	2358.902	978295.720	2.770	22.925	-8.313	17.383	74.288
716203.4	8562502.0	1620	2500	+0.007	2358.877	978295.695	2.754	22.843	-8.283	17.314	74.020
716450.9	8561846.5	1645	1850	+0.009	2354.579	978291.397	-1.777	22.712	-8.235	12.699	73.597
716441.5	8561869.2	1645	1875	+0.009	2354.874	978291.692	-1.474	22.578	-8.187	12.917	73.163
716449.7	8561895.8	1645	1900	+0.009	2355.129	978291.947	-1.210	22.423	-8.131	13.083	72.662
716451.6	8561923.8	1645	1925	+0.009	2355.399	978292.217	-0.930	22.221	-8.057	13.234	72.006

716449.9	8561949.9	1645	1950	+0.009	2355.719	978292.537	-0.601	21.967	-7.965	13.401	71.182
716443.8	8561974.5	1645	1975	+0.009	2355.984	978292.802	-0.327	21.721	-7.876	13.518	70.387
716441.8	8561996.1	1645	2000	+0.009	2356.254	978293.072	-0.049	21.517	-7.802	13.666	69.724
716447.8	8562027.4	1645	2025	+0.009	2356.514	978293.332	0.222	21.146	-7.668	13.701	68.523
716443.7	8562058.0	1645	2050	+0.009	2356.699	978293.517	0.418	21.042	-7.630	13.830	68.185
716447.1	8562076.2	1645	2075	+0.008	2356.633	978293.451	0.359	21.142	-7.666	13.834	68.509
716446.2	8562103.5	1645	2100	+0.008	2356.748	978293.566	0.483	21.217	-7.694	14.007	68.754
716447.6	8562125.9	1645	2125	+0.008	2356.848	978293.666	0.591	21.230	-7.698	14.123	68.796
716448.5	8562152.3	1645	2150	+0.008	2357.058	978293.876	0.811	21.165	-7.674	14.301	68.583
716449.1	8562173.8	1645	2175	+0.008	2357.168	978293.986	0.929	21.233	-7.699	14.462	68.803
716447.7	8562198.3	1645	2200	+0.008	2357.233	978294.051	1.002	21.400	-7.760	14.643	69.346
716441.9	8562228.7	1645	2225	+0.008	2357.288	978294.106	1.068	21.537	-7.809	14.796	69.789
716448.2	8562249.9	1645	2250	+0.008	2357.518	978294.336	1.306	21.450	-7.778	14.978	69.507
716446.6	8562270.7	1645	2275	+0.008	2357.678	978294.496	1.473	21.472	-7.786	15.159	69.579
716446.4	8562295.1	1645	2300	+0.008	2357.873	978294.691	1.677	21.409	-7.763	15.323	69.375
716446.0	8562322.4	1645	2325	+0.008	2357.953	978294.771	1.767	21.479	-7.788	15.457	69.600
716446.9	8562347.3	1645	2350	+0.008	2357.978	978294.796	1.800	21.622	-7.840	15.582	70.066
716450.3	8562375.9	1645	2375	+0.008	2358.053	978294.871	1.886	21.615	-7.838	15.663	70.041
716446.4	8562405.7	1645	2400	+0.008	2358.253	978295.071	2.096	21.676	-7.860	15.912	70.239
716452.6	8562423.1	1645	2425	+0.007	2358.402	978295.220	2.252	21.657	-7.853	16.056	70.178
716449.3	8562450.3	1645	2450	+0.007	2358.662	978295.480	2.521	21.672	-7.858	16.335	70.227
716448.8	8562473.1	1645	2475	+0.007	2358.812	978295.630	2.679	21.707	-7.871	16.515	70.339
716451.4	8562497.5	1645	2500	+0.007	2358.877	978295.695	2.753	21.723	-7.877	16.599	70.391
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718648.1	8563505.5	0	201	+0.000	2348.525	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.000	2348.525	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.025	2348.525	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.010	2348.500	978285.343	-7.233	29.802	-10.806	11.763	96.572
716203.8	8562502.1	1620	2500	+0.012	2358.892	978295.710	2.769	22.848	-8.285	17.332	74.036
716201.4	8562526.3	1620	2525	+0.013	2358.888	978295.706	2.774	22.768	-8.256	17.286	73.777
716204.4	8562544.9	1620	2550	+0.013	2358.908	978295.726	2.800	22.727	-8.241	17.287	73.647
716199.8	8562574.1	1620	2575	+0.013	2359.028	978295.846	2.931	22.574	-8.185	17.319	73.150
716199.3	8562595.7	1620	2600	+0.013	2359.133	978295.951	3.043	22.457	-8.143	17.357	72.771
716202.2	8562625.2	1620	2625	+0.013	2359.193	978296.011	3.114	22.226	-8.059	17.281	72.021
716198.0	8562657.4	1620	2650	+0.013	2359.328	978296.146	3.260	21.990	-7.974	17.277	71.258
716197.6	8562677.5	1620	2675	+0.013	2359.483	978296.301	3.423	21.820	-7.912	17.330	70.705
716199.7	8562699.9	1620	2700	+0.013	2359.593	978296.411	3.541	21.664	-7.855	17.349	70.200
716199.5	8562733.5	1620	2725	+0.013	2359.528	978296.346	3.488	21.653	-7.851	17.289	70.164
716193.0	8562751.9	1620	2750	+0.013	2359.558	978296.376	3.524	21.730	-7.879	17.375	70.415
716190.3	8562769.1	1620	2775	+0.014	2359.619	978296.437	3.591	21.676	-7.860	17.408	70.240
716194.5	8562797.8	1620	2800	+0.014	2359.689	978296.507	3.672	21.329	-7.734	17.266	69.114
716197.9	8562817.3	1620	2825	+0.014	2359.749	978296.567	3.739	21.133	-7.663	17.208	68.479
716192.9	8562844.8	1620	2850	+0.014	2359.724	978296.542	3.723	20.994	-7.612	17.105	68.029
716450.2	8561499.9	1645	1500	+0.003	2350.558	978287.376	-5.922	26.420	-9.580	10.918	85.614
716449.3	8561524.3	1645	1525	+0.003	2350.713	978287.531	-5.759	26.339	-9.551	11.030	85.351
716450.5	8561548.8	1645	1550	+0.003	2350.868	978287.686	-5.595	26.119	-9.471	11.053	84.636
716447.7	8561575.2	1645	1575	+0.003	2350.843	978287.661	-5.610	26.024	-9.437	10.977	84.330
716446.3	8561601.3	1645	1600	+0.003	2351.403	978288.221	-5.041	25.211	-9.142	11.029	81.695
716458.1	8561621.5	1645	1625	+0.003	2351.408	978288.226	-5.029	25.218	-9.144	11.045	81.719
716446.3	8561657.3	1645	1650	+0.003	2352.043	978288.861	-4.381	24.240	-8.789	11.069	78.548
716449.1	8561671.4	1645	1675	+0.003	2352.133	978288.951	-4.286	24.091	-8.736	11.070	78.066
716450.6	8561699.5	1645	1700	+0.002	2352.377	978289.195	-4.032	23.782	-8.623	11.126	77.063
716450.8	8561723.2	1645	1725	+0.002	2352.662	978289.480	-3.739	23.559	-8.543	11.278	76.341
716456.0	8561749.6	1645	1750	+0.002	2353.002	978289.820	-3.389	23.389	-8.481	11.519	75.791
716449.9	8561772.7	1645	1775	+0.002	2353.477	978290.295	-2.906	23.234	-8.425	11.903	75.288
716449.0	8561797.8	1645	1800	+0.002	2353.887	978290.705	-2.487	23.123	-8.385	12.252	74.929
716447.3	8561824.3	1645	1825	+0.002	2354.377	978291.195	-1.987	22.803	-8.269	12.547	73.893
716451.0	8561846.5	1645	1850	+0.002	2354.577	978291.395	-1.780	22.711	-8.235	12.696	73.593
716451.1	8562497.6	1645	2500	+0.012	2358.887	978295.705	2.763	21.705	-7.870	16.598	70.335
716449.5	8562523.3	1645	2525	+0.012	2359.337	978296.155	3.222	21.155	-7.671	16.707	68.553
716448.4	8562549.4	1645	2550	+0.012	2359.232	978296.050	3.127	21.240	-7.702	16.665	68.827
716447.7	8562574.9	1645	2575	+0.012	2359.372	978296.190	3.276	21.008	-7.618	16.666	68.075
716446.2	8562600.6	1645	2600	+0.012	2359.427	978296.245	3.340	21.007	-7.617	16.730	68.073
716450.5	8562625.0	1645	2625	+0.011	2359.006	978295.824	2.928	21.644	-7.848	16.723	70.135
716448.0	8562643.9	1645	2650	+0.011	2358.906	978295.724	2.834	21.876	-7.932	16.778	70.888
716448.4	8562680.2	1645	2675	+0.011	2358.956	978295.774	2.897	21.865	-7.928	16.834	70.852
716452.7	8562702.9	1645	2700	+0.011	2358.836	978295.654	2.785	21.936	-7.954	16.767	71.083
716449.8	8562724.9	1645	2725	+0.011	2359.041	978295.859	2.998	21.767	-7.893	16.873	70.535
716448.2	8562750.7	1645	2750	+0.011	2359.061	978295.879	3.027	21.867	-7.929	16.965	70.858
716449.7	8562776.7	1645	2775	+0.011	2359.356	978296.174	3.332	21.536	-7.809	17.059	69.786
716451.5	8562802.3	1645	2800	+0.011	2359.591	978296.409	3.576	21.223	-7.696	17.103	68.772
716449.6	8562824.4	1645	2825	+0.011	2359.746	978296.564	3.739	21.013	-7.619	17.132	68.091
716451.4	8562850.0	1645	2850	+0.010	2359.980	978296.798	3.982	20.686	-7.501	17.167	67.033
716451.4	8562874.9	1645	2875	+0.010	2360.175	978296.993	4.186	20.344	-7.377	17.153	65.922
716452.2	8562904.9	1645	2900	+0.005	2360.395	978297.213	4.417	19.989	-7.248	17.157	64.773
716449.0	8562925.7	1645	2925	+0.005	2360.300	978297.118	4.329	19.952	-7.235	17.046	64.652
716451.8	8562949.0	1645	2950	+0.005	2360.395	978297.213	4.432	19.921	-7.223	17.130	64.553
716453.8	8562981.7	1645	2975	+0.005	2360.580	978297.398	4.629	19.878	-7.208	17.299	64.412
716449.4	8562994.0	1645	3000	+0.005	2360.575	978297.393	4.628	19.874	-7.206	17.296	64.401
716460.6	8563022.0	1645	3025	+0.006	2360.816	978297.634	4.879	19.795	-7.178	17.496	64.144
716456.1	8563052.0	1645	3050	+0.006	2360.996	978297.814	5.070	19.783	-7.174	17.680	64.107
716453.3	8563099.7	1645	3100	+0.007	2360.492	978297.310	4.583	20.315	-7.366	17.532	65.831
716440.5	8563109.3	1645	3125	+0.007	2360.002	978296.820	4.096	20.761	-7.528	17.329	67.275

716447.9	8563146.3	1645	3150	+0.008	2359.593	978296.411	3.701	21.460	-7.781	17.379	69.539
716444.9	8563166.0	1645	3175	+0.008	2359.198	978296.016	3.313	21.983	-7.971	17.325	71.235
716853.6	8561499.6	1685	1500	+0.018	2351.183	978288.001	-5.296	23.008	-8.343	9.369	74.556
716850.1	8561522.6	1685	1525	+0.018	2351.213	978288.031	-5.258	22.993	-8.337	9.398	74.507
716848.8	8561547.8	1685	1550	+0.018	2351.218	978288.036	-5.244	23.097	-8.375	9.478	74.846
716852.0	8561573.7	1685	1575	+0.018	2351.258	978288.076	-5.195	23.087	-8.371	9.521	74.812
716848.8	8561597.3	1685	1600	+0.017	2351.317	978288.135	-5.127	23.101	-8.376	9.597	74.857
716849.5	8561625.8	1685	1625	+0.017	2351.422	978288.240	-5.012	23.024	-8.349	9.663	74.607
716848.2	8561649.4	1685	1650	+0.017	2351.362	978288.180	-5.064	22.775	-8.258	9.453	73.802
716853.6	8561673.5	1685	1675	+0.017	2351.417	978288.235	-5.000	22.767	-8.256	9.512	73.776
716848.9	8561695.1	1685	1700	+0.017	2351.402	978288.220	-5.007	23.247	-8.430	9.811	75.332
716847.0	8561722.6	1685	1725	+0.017	2351.492	978288.310	-4.908	23.254	-8.432	9.914	75.353
716852.7	8561748.4	1685	1750	+0.017	2351.502	978288.320	-4.888	23.288	-8.445	9.956	75.465
716848.1	8561774.8	1685	1775	+0.017	2351.552	978288.370	-4.829	23.382	-8.478	10.075	75.768
716851.8	8561797.5	1685	1800	+0.016	2351.561	978288.379	-4.812	23.442	-8.500	10.130	75.961
716847.8	8561826.4	1685	1825	+0.016	2351.486	978288.304	-4.877	23.721	-8.601	10.243	76.866
716850.8	8561849.1	1685	1850	+0.016	2351.291	978288.109	-5.063	24.099	-8.739	10.298	78.093
716851.1	8561874.3	1685	1875	+0.016	2351.226	978288.044	-5.119	24.302	-8.812	10.370	78.748
716847.7	8561901.5	1685	1900	+0.019	2351.004	978287.822	-5.332	24.768	-8.981	10.455	80.258
716851.6	8561927.3	1685	1925	+0.019	2350.954	978287.772	-5.373	25.010	-9.069	10.569	81.045
716851.6	8561948.9	1685	1950	+0.019	2350.919	978287.737	-5.400	25.189	-9.134	10.656	81.625
716848.8	8561979.2	1685	1975	+0.019	2350.979	978287.797	-5.329	25.211	-9.142	10.741	81.696
716853.8	8562002.6	1685	2000	+0.019	2351.159	978287.977	-5.141	25.033	-9.077	10.815	81.117
716850.8	8562028.6	1685	2025	+0.019	2351.234	978288.052	-5.056	24.977	-9.057	10.864	80.938
716846.0	8562048.0	1685	2050	+0.019	2351.404	978288.222	-4.879	24.588	-8.916	10.793	79.676
716852.1	8562077.7	1685	2075	+0.020	2351.610	978288.428	-4.663	24.287	-8.806	10.817	78.699
716848.4	8562101.6	1685	2100	+0.020	2352.085	978288.903	-4.179	23.783	-8.624	10.980	77.066
716852.2	8562126.6	1685	2125	+0.020	2352.485	978289.303	-3.770	23.293	-8.446	11.076	75.478
716848.2	8562154.1	1685	2150	+0.020	2353.100	978289.918	-3.146	22.646	-8.212	11.289	73.384
716855.0	8562173.7	1685	2175	+0.020	2353.460	978290.278	-2.779	22.195	-8.048	11.369	71.923
716848.4	8562202.8	1685	2200	+0.020	2354.300	978291.118	-1.928	21.352	-7.742	11.682	69.190
716849.7	8562229.5	1685	2225	+0.020	2354.955	978291.773	-1.264	20.504	-7.435	11.806	66.441
716852.0	8562272.7	1685	2275	+0.021	2355.836	978292.654	-0.367	20.003	-7.253	12.383	64.820
716851.2	8562298.4	1685	2300	+0.021	2356.456	978293.274	0.262	19.624	-7.116	12.770	63.591
716846.8	8562328.4	1685	2325	+0.021	2356.926	978293.744	0.743	19.441	-7.049	13.134	62.996
716850.1	8562354.2	1685	2350	+0.021	2357.116	978293.934	0.942	19.441	-7.049	13.334	62.997
716848.7	8562380.7	1685	2375	+0.022	2357.372	978294.190	1.207	19.325	-7.007	13.525	62.623
716848.7	8562401.7	1685	2400	+0.022	2357.502	978294.320	1.345	19.391	-7.031	13.705	62.835
716846.8	8562425.7	1685	2425	+0.022	2357.692	978294.510	1.544	19.350	-7.016	13.877	62.703
716852.9	8562450.7	1685	2450	+0.022	2357.852	978294.670	1.712	19.320	-7.005	14.027	62.605
716850.8	8562472.1	1685	2475	+0.022	2358.002	978294.820	1.870	19.267	-6.986	14.151	62.432
716850.6	8562500.9	1685	2500	+0.023	2358.153	978294.971	2.031	19.323	-7.007	14.348	62.616
716851.4	8562529.5	1685	2525	+0.023	2358.273	978295.091	2.162	19.348	-7.016	14.494	62.695
716849.8	8562550.8	1685	2550	+0.023	2358.438	978295.256	2.334	19.337	-7.012	14.660	62.660
716851.2	8562575.0	1685	2575	+0.023	2358.708	978295.526	2.613	19.318	-7.005	14.926	62.598
716850.2	8562602.9	1685	2600	+0.023	2358.953	978295.771	2.868	19.354	-7.018	15.204	62.717
716846.2	8562625.8	1685	2625	+0.023	2359.178	978295.996	3.101	19.057	-6.910	15.248	61.754
716850.8	8562649.9	1685	2650	+0.023	2359.293	978296.111	3.225	19.262	-6.985	15.502	62.418
716849.9	8562676.7	1685	2675	+0.024	2359.549	978296.367	3.490	19.137	-6.939	15.688	62.011
716851.8	8562702.1	1685	2700	+0.024	2359.709	978296.527	3.659	19.109	-6.929	15.839	61.920
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718648.1	8563505.5	0	201	+0.000	2348.495	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.000	2348.495	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.015	2348.495	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.000	2348.510	978285.343	-7.233	29.802	-10.806	11.763	96.572
716451.4	8562850.1	1645	2850	-0.015	2359.945	978296.793	3.977	20.690	-7.502	17.165	67.044
716851.7	8562701.7	1685	2700	-0.001	2359.699	978296.547	3.679	19.109	-6.929	15.859	61.920
716846.4	8562718.5	1685	2725	-0.001	2359.769	978296.617	3.755	19.129	-6.936	15.948	61.987
716834.2	8562747.9	1685	2750	-0.001	2359.809	978296.657	3.806	19.169	-6.951	16.024	62.117
716843.8	8562765.6	1685	2775	-0.002	2359.788	978296.636	3.791	19.141	-6.941	15.991	62.026
716840.0	8562789.5	1685	2800	-0.002	2359.648	978296.496	3.659	19.039	-6.904	15.795	61.695
716843.3	8562861.0	1685	2850	-0.002	2359.573	978296.421	3.610	19.604	-7.108	16.105	63.525
716854.2	8562877.2	1685	2875	-0.002	2359.653	978296.501	3.696	19.514	-7.076	16.134	63.235
716850.4	8562899.0	1685	2900	-0.003	2359.667	978296.515	3.718	19.520	-7.078	16.160	63.254
716865.1	8562930.0	1685	2925	-0.003	2359.397	978296.245	3.459	19.583	-7.101	15.941	63.457
716859.3	8562956.9	1685	2950	-0.003	2359.637	978296.485	3.708	19.294	-6.996	16.006	62.522
716850.0	8562976.7	1685	2975	-0.003	2359.622	978296.470	3.700	19.222	-6.970	15.952	62.287
716847.8	8562996.6	1685	3000	-0.003	2359.667	978296.515	3.752	19.134	-6.938	15.948	62.002
716850.4	8563026.0	1685	3025	-0.003	2359.782	978296.630	3.878	18.907	-6.856	15.929	61.267
716847.7	8563049.8	1685	3050	-0.003	2359.972	978296.820	4.076	18.892	-6.850	16.118	61.220
716849.3	8563072.2	1685	3075	-0.003	2360.152	978297.000	4.264	18.783	-6.811	16.237	60.866
716851.3	8563100.1	1685	3100	-0.003	2360.437	978297.285	4.559	18.630	-6.755	16.434	60.371
716850.8	8563119.7	1685	3125	-0.003	2360.662	978297.510	4.791	18.574	-6.735	16.630	60.187
716851.6	8563146.7	1685	3150	-0.003	2360.862	978297.710	5.001	18.455	-6.692	16.764	59.803
716859.1	8563176.0	1685	3175	-0.003	2360.867	978297.715	5.016	18.384	-6.666	16.734	59.572
716855.8	8563194.8	1685	3200	-0.003	2360.892	978297.740	5.048	18.306	-6.638	16.716	59.318
716841.4	8563218.6	1685	3225	-0.003	2360.982	978297.830	5.147	18.165	-6.587	16.725	58.863
716864.8	8563255.3	1685	3250	-0.003	2360.882	978297.730	5.060	18.055	-6.547	16.568	58.505
716858.3	8563283.0	1685	3275	-0.004	2360.981	978297.829	5.169	18.092	-6.560	16.701	58.627
716862.6	8563300.3	1685	3300	-0.004	2361.056	978297.904	5.250	17.993	-6.524	16.719	58.306
716854.2	8563324.7	1685	3325	-0.004	2361.131	978297.979	5.333	17.999	-6.527	16.806	58.326
716842.3	8563369.2	1685	3375	-0.004	2361.456	978298.304	5.674	17.770	-6.444	17.001	57.584
716864.9	8563409.4	1685	3400	-0.004	2360.901	978297.749	5.134	18.745	-6.797	17.082	60.743

716858.5	8563453.4	1685	3450	-0.005	2360.740	978297.588	4.988	19.070	-6.915	17.144	61.796
716851.5	8563474.7	1685	3475	-0.005	2360.840	978297.688	5.096	19.214	-6.967	17.343	62.261
716851.8	8563488.9	1685	3500	-0.005	2360.795	978297.643	5.056	19.313	-7.003	17.366	62.582
716847.5	8563520.8	1685	3525	-0.005	2360.660	978297.508	4.932	19.310	-7.002	17.241	62.574
716839.7	8563555.3	1685	3550	-0.006	2360.344	978297.192	4.629	19.320	-7.006	16.943	62.606
716846.2	8563607.5	1685	3600	-0.006	2359.734	978296.582	4.037	19.791	-7.176	16.652	64.133
716850.8	8563626.5	1685	3625	-0.007	2359.833	978296.681	4.143	19.206	-6.964	16.385	62.236
716854.0	8563646.5	1685	3650	-0.007	2359.328	978296.176	3.645	19.642	-7.122	16.165	63.648
716852.3	8563680.6	1685	3675	-0.007	2359.043	978295.891	3.372	19.623	-7.115	15.880	63.587
716855.8	8563701.3	1685	3700	-0.007	2358.928	978295.776	3.265	19.646	-7.124	15.787	63.661
716856.5	8563725.6	1685	3725	-0.007	2358.958	978295.806	3.304	19.418	-7.041	15.680	62.922
716851.0	8563748.7	1685	3750	-0.007	2359.228	978296.076	3.582	18.839	-6.831	15.590	61.048
716847.2	8563776.8	1685	3775	-0.007	2358.643	978295.491	3.007	19.374	-7.025	15.355	62.779
716851.0	8563799.8	1685	3800	-0.007	2357.883	978294.731	2.255	20.286	-7.356	15.185	65.734
716858.0	8563826.3	1685	3825	-0.007	2357.613	978294.461	1.994	20.755	-7.526	15.224	67.255
716849.5	8563848.1	1685	3850	-0.008	2357.457	978294.305	1.846	20.936	-7.592	15.191	67.843
716846.1	8563878.6	1685	3875	-0.008	2357.552	978294.400	1.952	20.577	-7.461	15.068	66.678
716841.7	8563900.4	1685	3900	-0.008	2357.827	978294.675	2.235	20.102	-7.289	15.048	65.138
716859.7	8563911.0	1685	3925	-0.008	2357.867	978294.715	2.279	20.053	-7.271	15.060	64.979
716850.0	8563956.7	1685	3950	-0.008	2357.852	978294.700	2.280	19.290	-6.995	14.576	62.509
716851.8	8563974.8	1685	3975	-0.008	2358.102	978294.950	2.536	18.780	-6.810	14.507	60.856
716850.3	8564002.5	1685	4000	-0.008	2358.072	978294.920	2.516	18.578	-6.736	14.358	60.200
717256.6	8562092.6	1725	2100	-0.012	2352.068	978288.916	-4.168	21.750	-7.886	9.695	70.478
717248.6	8562152.0	1725	2150	-0.013	2352.262	978289.110	-3.953	21.815	-7.910	9.952	70.690
717258.8	8562174.6	1725	2175	-0.013	2352.082	978288.930	-4.125	22.178	-8.042	10.012	71.868
717248.7	8562198.3	1725	2200	-0.013	2352.367	978289.215	-3.832	22.132	-8.025	10.275	71.717
717257.9	8562224.7	1725	2225	-0.013	2352.382	978289.230	-3.807	22.137	-8.027	10.303	71.734
717259.6	8562250.9	1725	2250	-0.013	2352.467	978289.315	-3.713	22.077	-8.005	10.359	71.539
717261.3	8562277.2	1725	2275	-0.013	2352.582	978289.430	-3.588	22.008	-7.980	10.440	71.317
717251.1	8562302.0	1725	2300	-0.013	2352.702	978289.550	-3.460	22.009	-7.980	10.569	71.318
717261.1	8562327.0	1725	2325	-0.014	2352.981	978289.829	-3.172	21.752	-7.887	10.693	70.486
717250.5	8562351.3	1725	2350	-0.014	2353.036	978289.884	-3.108	21.923	-7.949	10.866	71.040
717255.0	8562373.7	1725	2375	-0.014	2352.716	978289.564	-3.420	22.458	-8.144	10.895	72.775
717251.3	8562400.9	1725	2400	-0.014	2351.926	978288.774	-4.200	23.853	-8.649	11.004	77.294
717259.4	8562427.2	1725	2425	-0.014	2351.266	978288.114	-4.851	24.862	-9.015	10.996	80.565
717261.8	8562453.1	1725	2450	-0.014	2351.681	978288.529	-4.427	24.437	-8.861	11.149	79.186
717262.1	8562476.7	1725	2475	-0.014	2352.631	978289.479	-3.468	23.097	-8.375	11.254	74.846
717250.0	8562504.2	1725	2500	-0.014	2352.906	978289.754	-3.183	22.765	-8.255	11.327	73.770
717260.0	8563850.8	1725	3850	-0.009	2358.531	978295.379	2.922	19.544	-7.087	15.379	63.331
717259.4	8563876.4	1725	3875	-0.009	2358.436	978295.284	2.836	19.553	-7.090	15.300	63.361
717258.8	8563898.3	1725	3900	-0.009	2358.386	978295.234	2.794	19.439	-7.049	15.185	62.992
717260.9	8563923.3	1725	3925	-0.009	2358.251	978295.099	2.668	19.479	-7.063	15.084	63.120
717259.4	8563951.1	1725	3950	-0.009	2358.016	978294.864	2.443	19.428	-7.045	14.826	62.954
717260.5	8563973.7	1725	3975	-0.009	2357.856	978294.704	2.291	19.316	-7.004	14.603	62.592
717259.3	8563997.0	1725	4000	-0.009	2357.716	978294.564	2.159	19.214	-6.967	14.407	62.263
717456.6	8562096.5	1745	2100	-0.012	2351.453	978288.301	-4.781	21.989	-7.973	9.234	71.254
717451.9	8562119.9	1745	2125	-0.012	2351.113	978287.961	-5.113	22.511	-8.163	9.235	72.945
717451.1	8562151.4	1745	2150	-0.011	2351.814	978288.662	-4.401	21.699	-7.868	9.430	70.315
717449.3	8562174.5	1745	2175	-0.011	2351.884	978288.732	-4.323	21.677	-7.860	9.494	70.242
717450.9	8562201.3	1745	2200	-0.011	2351.759	978288.607	-4.438	21.964	-7.964	9.562	71.172
717447.2	8562223.7	1745	2225	-0.011	2351.914	978288.762	-4.275	21.795	-7.903	9.617	70.625
717450.5	8562250.7	1745	2250	-0.011	2352.229	978289.077	-3.950	21.919	-7.948	10.021	71.028
717446.8	8562274.5	1745	2275	-0.011	2352.559	978289.407	-3.612	21.686	-7.863	10.211	70.272
717447.6	8562298.5	1745	2300	-0.011	2352.839	978289.687	-3.323	21.119	-7.658	10.138	68.434
717449.2	8562326.1	1745	2325	-0.011	2352.954	978289.802	-3.198	20.899	-7.578	10.122	67.721
717449.4	8562348.4	1745	2350	-0.011	2353.084	978289.932	-3.060	20.753	-7.525	10.168	67.250
717449.8	8562373.9	1745	2375	-0.011	2353.154	978290.002	-2.981	20.633	-7.482	10.170	66.859
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718648.1	8563505.5	0	201	+0.000	2348.530	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.005	2348.530	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.030	2348.525	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.005	2348.495	978285.343	-7.233	29.802	-10.806	11.763	96.572
717250.0	8562504.2	1725	2500	+0.025	2352.940	978289.758	-3.179	22.777	-8.259	11.339	73.809
717249.3	8562525.9	1725	2525	+0.025	2353.065	978289.883	-3.047	22.659	-8.216	11.396	73.425
717249.2	8562550.0	1725	2550	+0.025	2353.440	978290.258	-2.663	22.172	-8.040	11.469	71.846
717249.3	8562574.6	1725	2575	+0.025	2353.575	978290.393	-2.519	22.100	-8.014	11.568	71.615
717249.6	8562601.4	1725	2600	+0.025	2353.825	978290.643	-2.260	21.951	-7.960	11.732	71.132
717250.7	8562624.1	1725	2625	+0.025	2354.385	978291.203	-1.692	21.334	-7.736	11.907	69.133
717252.2	8562646.7	1725	2650	+0.026	2354.936	978291.754	-1.132	20.637	-7.483	12.021	66.872
717248.5	8562677.8	1725	2675	+0.026	2355.691	978292.509	-0.366	19.827	-7.189	12.271	64.249
717253.3	8562697.9	1725	2700	+0.026	2356.391	978293.209	0.341	18.907	-6.856	12.392	61.266
717249.8	8562725.3	1725	2725	+0.026	2356.426	978293.244	0.386	19.324	-7.007	12.702	62.617
717252.6	8562752.3	1725	2750	+0.026	2356.791	978293.609	0.760	19.188	-6.958	12.990	62.177
717249.2	8562776.4	1725	2775	+0.026	2357.066	978293.884	1.044	19.184	-6.956	13.271	62.163
717255.7	8562798.7	1725	2800	+0.026	2356.516	978293.334	0.502	20.145	-7.305	13.342	65.279
717250.5	8562827.9	1725	2825	+0.026	2356.446	978293.264	0.442	20.669	-7.495	13.617	66.977
717249.1	8562849.7	1725	2850	+0.027	2356.212	978293.030	0.216	21.172	-7.677	13.711	68.605
717252.2	8562876.2	1725	2875	+0.027	2356.152	978292.970	0.165	21.404	-7.761	13.808	69.359
717256.1	8562898.3	1725	2900	+0.027	2356.952	978293.770	0.973	20.435	-7.410	13.999	66.218
717250.8	8562911.7	1725	2925	+0.027	2357.947	978294.765	1.973	19.146	-6.943	14.177	62.043
717253.4	8562948.4	1725	2950	+0.027	2358.457	978295.275	2.496	18.760	-6.803	14.454	60.792
717251.5	8562976.3	1725	2975	+0.027	2358.037	978294.855	2.086	19.607	-7.109	14.583	63.534
717251.5	8563224.4	1725	3225	+0.028	2359.553	978296.371	3.691	18.796	-6.815	15.671	60.907

717251.0	8563252.2	1725	3250	+0.028	2359.928	978296.746	4.076	18.818	-6.824	16.070	60.980
717243.2	8563273.3	1725	3275	+0.029	2360.174	978296.992	4.329	18.878	-6.845	16.362	61.174
717253.7	8563303.9	1725	3300	+0.029	2360.509	978297.327	4.675	18.632	-6.756	16.551	60.375
717247.4	8563324.8	1725	3325	+0.029	2360.659	978297.477	4.833	18.676	-6.772	16.737	60.520
717243.2	8563349.1	1725	3350	+0.029	2360.524	978297.342	4.706	18.809	-6.820	16.695	60.951
717252.9	8563375.6	1725	3375	+0.029	2360.529	978297.347	4.721	18.965	-6.877	16.809	61.454
717257.6	8563394.7	1725	3400	+0.002	2360.482	978297.300	4.681	19.056	-6.910	16.827	61.749
717257.1	8563435.6	1725	3425	+0.002	2360.517	978297.335	4.730	19.074	-6.916	16.888	61.808
717233.7	8563451.2	1725	3450	+0.002	2360.702	978297.520	4.921	19.085	-6.920	17.085	61.844
717229.2	8563476.2	1725	3475	+0.003	2360.753	978297.571	4.981	19.126	-6.935	17.171	61.976
717256.8	8563518.7	1725	3525	+0.004	2360.299	978297.117	4.542	19.394	-7.032	16.904	62.845
717258.6	8563542.4	1725	3550	+0.004	2360.039	978296.857	4.290	19.528	-7.081	16.737	63.278
717242.6	8563606.1	1725	3600	+0.005	2359.595	978296.413	3.869	19.763	-7.166	16.466	64.041
717246.8	8563625.7	1725	3625	+0.005	2359.375	978296.193	3.656	19.821	-7.187	16.290	64.230
717236.1	8563678.4	1725	3675	+0.007	2358.897	978295.715	3.197	20.042	-7.267	15.972	64.946
717225.7	8563708.9	1725	3700	+0.007	2359.092	978295.910	3.403	19.634	-7.119	15.917	63.623
717249.9	8563732.8	1725	3725	+0.008	2358.918	978295.736	3.237	19.770	-7.169	15.839	64.064
717260.9	8563751.4	1725	3750	+0.008	2358.908	978295.726	3.234	19.769	-7.168	15.834	64.060
717246.3	8563777.0	1725	3775	+0.008	2358.863	978295.681	3.198	19.687	-7.138	15.746	63.793
717260.5	8563797.9	1725	3800	+0.008	2358.833	978295.251	2.775	20.159	-7.310	15.625	65.323
717263.0	8563829.5	1725	3825	+0.008	2358.818	978295.636	3.172	19.325	-7.007	15.490	62.623
717260.3	8563850.9	1725	3850	+0.008	2358.583	978295.401	2.944	19.547	-7.088	15.404	63.342
717453.3	8562406.3	1745	2400	+0.024	2353.434	978290.252	-2.720	20.419	-7.404	10.295	66.166
717449.4	8562425.1	1745	2425	+0.024	2353.534	978290.352	-2.613	20.372	-7.387	10.372	66.013
717449.1	8562448.3	1745	2450	+0.024	2353.679	978290.497	-2.460	20.254	-7.344	10.450	65.632
717451.4	8562472.4	1745	2475	+0.024	2353.854	978290.672	-2.276	20.125	-7.297	10.551	65.214
717452.7	8562499.3	1745	2500	+0.024	2354.044	978290.862	-2.077	19.901	-7.216	10.608	64.488
717451.9	8562521.7	1745	2525	+0.024	2354.284	978291.102	-1.829	19.703	-7.144	10.730	63.845
717449.5	8562546.2	1745	2550	+0.024	2354.529	978291.347	-1.575	19.442	-7.050	10.817	63.000
717450.2	8562574.9	1745	2575	+0.024	2354.594	978291.412	-1.500	19.490	-7.067	10.923	63.155
717449.4	8562597.6	1745	2600	+0.024	2354.674	978291.492	-1.411	19.466	-7.058	10.996	63.077
717449.3	8562625.4	1745	2625	+0.023	2354.698	978291.516	-1.378	19.560	-7.092	11.090	63.382
717452.7	8562652.7	1745	2650	+0.023	2354.723	978291.541	-1.343	19.628	-7.117	11.168	63.603
717453.0	8562673.6	1745	2675	+0.023	2354.753	978291.571	-1.305	19.672	-7.133	11.234	63.747
717448.6	8562700.4	1745	2700	+0.023	2354.663	978291.481	-1.386	19.639	-7.121	11.132	63.640
717450.5	8562723.5	1745	2725	+0.023	2353.973	978290.791	-2.068	20.624	-7.478	11.078	66.832
717453.6	8562748.4	1745	2750	+0.023	2353.283	978290.101	-2.749	21.726	-7.878	11.099	70.401
717447.5	8562773.5	1745	2775	+0.022	2352.407	978289.225	-3.616	23.277	-8.440	11.221	75.429
717454.9	8562797.7	1745	2800	+0.022	2352.527	978289.345	-3.487	23.295	-8.447	11.361	75.486
717449.4	8562822.9	1745	2825	+0.022	2352.862	978289.680	-3.143	23.078	-8.368	11.567	74.782
717453.2	8562848.4	1745	2850	+0.022	2353.142	978289.960	-2.854	22.925	-8.313	11.759	74.288
717451.0	8562874.1	1745	2875	+0.022	2353.597	978290.415	-2.390	22.691	-8.228	12.073	73.528
717454.0	8562898.7	1745	2900	+0.022	2353.862	978290.680	-2.116	22.644	-8.211	12.317	73.375
717450.6	8562922.1	1745	2925	+0.022	2354.087	978290.905	-1.883	22.742	-8.246	12.613	73.694
717455.3	8562945.3	1745	2950	+0.022	2353.947	978290.765	-2.014	23.091	-8.373	12.704	74.824
717447.7	8562982.7	1745	2975	+0.021	2356.891	978293.709	0.943	19.716	-7.149	13.510	63.890
717450.2	8562998.3	1745	3000	+0.021	2357.881	978294.699	1.939	18.554	-6.728	13.765	60.122
717449.4	8563024.2	1745	3025	+0.021	2358.386	978295.204	2.453	18.252	-6.618	14.087	59.145
717454.6	8563050.7	1745	3050	+0.021	2357.496	978294.314	1.572	19.791	-7.176	14.187	64.130
717454.1	8563073.4	1745	3075	+0.021	2357.526	978294.344	1.610	20.016	-7.258	14.369	64.862
717453.6	8563099.4	1745	3100	+0.020	2357.690	978294.508	1.784	20.096	-7.287	14.593	65.120
717452.1	8563122.7	1745	3125	+0.020	2357.935	978294.753	2.037	19.983	-7.246	14.774	64.753
717455.5	8563150.1	1745	3150	+0.020	2358.200	978295.018	2.312	19.831	-7.191	14.952	64.262
717449.6	8563175.3	1745	3175	+0.020	2358.410	978295.228	2.531	19.665	-7.131	15.065	63.723
717455.2	8563200.3	1745	3200	+0.020	2358.560	978295.378	2.690	19.535	-7.083	15.141	63.301
717452.2	8563223.1	1745	3225	+0.020	2358.645	978295.463	2.783	19.445	-7.051	15.177	63.011
717452.9	8563249.0	1745	3250	+0.020	2358.745	978295.563	2.892	19.331	-7.010	15.214	62.642
717449.8	8563274.1	1745	3275	+0.020	2358.915	978295.733	3.071	19.247	-6.979	15.339	62.369
717453.9	8563300.3	1745	3300	+0.020	2359.225	978296.043	3.390	19.123	-6.934	15.579	61.967
717455.2	8563325.8	1745	3325	+0.020	2359.525	978296.343	3.699	18.996	-6.888	15.807	61.555
717456.7	8563345.2	1745	3350	+0.019	2360.094	978296.912	4.275	18.476	-6.700	16.052	59.871
717448.5	8563372.4	1745	3375	+0.019	2360.034	978296.852	4.225	18.638	-6.758	16.105	60.394
717450.5	8563403.4	1745	3400	+0.019	2360.039	978296.857	4.241	18.929	-6.864	16.307	61.339
717453.2	8563422.7	1745	3425	+0.018	2359.953	978296.771	4.162	19.083	-6.920	16.326	61.838
717446.9	8563453.9	1745	3450	+0.018	2360.038	978296.856	4.258	19.217	-6.968	16.507	62.271
717449.0	8563473.0	1745	3475	+0.018	2359.888	978296.706	4.115	19.354	-7.018	16.451	62.716
717451.8	8563497.1	1745	3500	+0.018	2359.798	978296.616	4.034	19.416	-7.040	16.409	62.916
717454.6	8563561.7	1745	3550	+0.014	2358.649	978295.467	2.908	20.054	-7.272	15.690	64.985
717451.2	8563576.7	1745	3575	+0.014	2359.034	978295.852	3.298	19.669	-7.132	15.835	63.737
717458.9	8563604.5	1745	3600	+0.014	2359.039	978295.857	3.313	19.731	-7.155	15.890	63.938
717465.4	8563626.8	1745	3625	+0.012	2358.882	978295.700	3.164	19.771	-7.169	15.766	64.066
717443.8	8563649.9	1745	3650	+0.012	2358.932	978295.750	3.222	19.809	-7.183	15.848	64.190
717456.3	8563674.7	1745	3675	+0.011	2358.766	978295.584	3.065	19.866	-7.203	15.727	64.374
717446.8	8563709.5	1745	3700	+0.010	2358.800	978295.618	3.111	19.499	-7.070	15.540	63.184
717448.0	8563728.3	1745	3725	+0.010	2358.665	978295.483	2.983	19.932	-7.227	15.688	64.589
717450.9	8563746.5	1745	3750	+0.010	2358.485	978295.303	2.810	20.071	-7.278	15.603	65.040
717451.5	8563776.0	1745	3775	+0.010	2358.675	978295.493	3.010	19.732	-7.155	15.587	63.941
717450.2	8563800.2	1745	3800	+0.010	2358.625	978295.443	2.969	19.704	-7.145	15.528	63.850
717450.9	8563825.1	1745	3825	+0.010	2358.590	978295.408	2.943	19.566	-7.095	15.414	63.401
717448.9	8563850.6	1745	3850	+0.010	2358.370	978295.188	2.732	19.683	-7.137	15.277	63.781
717451.7	8563875.5	1745	3875	+0.009	2358.354	978295.172	2.725	19.463	-7.058	15.131	63.070
717448.6	8563901.3	1745	3900	+0.009	2358.274	978295.092	2.654	19.397	-7.033	15.017	62.855
717452.2	8563923.0	1745	3925	+0.009	2358.194	978295.012	2.582	19.327	-7.008	14.900	62.627

717454.4	8563956.1	1745	3950	+0.009	2357.989	978294.807	2.388	19.306	-7.000	14.694	62.559
717451.2	8563973.7	1745	3975	+0.009	2357.914	978294.732	2.320	19.248	-6.980	14.588	62.373
717451.4	8564003.3	1745	4000	+0.009	2357.719	978294.537	2.135	19.190	-6.958	14.367	62.184
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718648.1	8563505.5	0	201	+0.000	2348.490	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.000	2348.490	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.020	2348.490	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.005	2348.510	978285.343	-7.233	29.802	-10.806	11.763	96.572
716193.0	8562844.6	1620	2850	-0.015	2359.665	978296.518	3.699	21.029	-7.625	17.103	68.142
716178.9	8562870.9	1620	2875	-0.014	2359.546	978296.399	3.590	21.141	-7.666	17.065	68.507
716198.7	8562894.4	1620	2900	-0.014	2359.426	978296.279	3.478	21.031	-7.626	16.883	68.151
716207.0	8562927.1	1620	2925	-0.014	2359.351	978296.204	3.415	21.066	-7.639	16.842	68.264
716199.5	8562955.0	1620	2950	-0.014	2359.226	978296.079	3.300	21.419	-7.767	16.952	69.408
716214.3	8562980.3	1620	2975	-0.014	2358.781	978295.634	2.864	22.019	-7.984	16.899	71.352
716203.8	8562998.1	1620	3000	-0.014	2358.696	978295.549	2.785	22.283	-8.080	16.988	72.207
716189.0	8563013.4	1620	3025	-0.013	2358.637	978295.490	2.731	22.465	-8.146	17.051	72.797
716202.5	8563043.3	1620	3050	-0.013	2358.687	978295.540	2.792	22.536	-8.172	17.157	73.027
716202.2	8563061.3	1620	3075	-0.013	2358.742	978295.595	2.854	22.561	-8.181	17.234	73.107
716202.7	8563096.3	1620	3100	-0.013	2358.677	978295.530	2.801	22.714	-8.236	17.279	73.602
716201.8	8563137.2	1620	3150	-0.012	2357.723	978294.576	1.862	23.891	-8.663	17.090	77.418
716209.7	8563164.0	1620	3175	-0.011	2357.404	978294.257	1.552	24.176	-8.766	16.962	78.340
716202.3	8563183.5	1620	3200	-0.011	2357.514	978294.367	1.669	24.255	-8.795	17.129	78.596
716187.9	8563214.6	1620	3225	-0.011	2357.509	978294.362	1.675	23.898	-8.666	16.908	77.440
716187.5	8563250.3	1620	3250	-0.010	2357.380	978294.233	1.559	24.571	-8.909	17.220	79.620
716183.5	8563271.3	1620	3275	-0.010	2357.285	978294.138	1.472	24.678	-8.948	17.201	79.967
716197.2	8563300.0	1620	3300	-0.010	2357.415	978294.268	1.612	24.650	-8.938	17.324	79.878
716196.3	8563321.2	1620	3325	-0.010	2357.505	978294.358	1.709	24.616	-8.926	17.400	79.767
716190.9	8563352.7	1620	3350	-0.010	2357.620	978294.473	1.836	25.060	-9.087	17.809	81.206
716193.4	8563378.7	1620	3375	-0.010	2357.835	978294.688	2.060	23.990	-8.699	17.351	77.738
716208.1	8563399.8	1620	3400	-0.010	2358.055	978294.908	2.287	23.519	-8.528	17.279	76.213
716204.3	8563427.1	1620	3425	-0.009	2358.631	978295.484	2.873	22.556	-8.179	17.250	73.091
716203.1	8563449.1	1620	3450	-0.009	2359.091	978295.944	3.341	21.770	-7.894	17.217	70.546
716204.2	8563477.4	1620	3475	-0.009	2359.696	978296.549	3.956	20.893	-7.576	17.273	67.703
716195.9	8563503.6	1620	3500	-0.009	2360.071	978296.924	4.340	20.272	-7.351	17.262	65.690
716184.5	8563524.4	1620	3525	-0.009	2360.131	978296.984	4.408	20.226	-7.334	17.300	65.542
716204.7	8563771.3	1620	3775	-0.019	2359.661	978296.514	4.026	19.091	-6.922	16.194	61.863
716201.7	8563800.2	1620	3800	-0.019	2359.411	978296.264	3.786	19.007	-6.892	15.901	61.592
716202.2	8563827.3	1620	3825	-0.019	2359.246	978296.099	3.631	18.888	-6.849	15.670	61.207
716203.7	8563846.9	1620	3850	-0.019	2359.206	978296.059	3.598	18.730	-6.792	15.536	60.693
716203.5	8563902.1	1620	3900	-0.019	2359.131	978295.984	3.543	18.409	-6.675	15.276	59.652
716204.0	8563922.3	1620	3925	-0.018	2359.027	978295.880	3.446	18.300	-6.636	15.110	59.300
716200.5	8563951.1	1620	3950	-0.018	2358.947	978295.800	3.376	18.246	-6.616	15.006	59.124
716201.3	8563970.9	1620	3975	-0.018	2358.927	978295.780	3.363	18.167	-6.587	14.943	58.869
716201.0	8563998.5	1620	4000	-0.018	2358.927	978295.780	3.373	18.071	-6.553	14.892	58.559
716442.3	8563197.3	1645	3200	-0.002	2359.013	978295.866	3.174	21.972	-7.967	17.179	71.199
716436.3	8563238.3	1645	3225	-0.003	2359.157	978296.010	3.332	21.122	-7.659	16.796	68.446
716440.0	8563267.3	1645	3250	-0.003	2359.437	978296.290	3.623	21.413	-7.765	17.272	69.389
716448.7	8563280.1	1645	3275	-0.004	2359.756	978296.609	3.946	21.026	-7.624	17.348	68.132
716451.9	8563301.5	1645	3300	-0.004	2360.156	978297.009	4.354	20.623	-7.478	17.499	66.829
716444.6	8563332.5	1645	3325	-0.004	2360.276	978297.129	4.485	20.536	-7.447	17.575	66.547
716451.4	8563350.7	1645	3350	-0.004	2360.181	978297.034	4.397	20.573	-7.460	17.510	66.666
716449.0	8563373.3	1645	3375	-0.004	2360.176	978297.029	4.400	20.770	-7.531	17.639	67.305
716452.5	8563397.4	1645	3400	-0.004	2360.076	978296.929	4.308	20.698	-7.505	17.501	67.070
716461.7	8563419.9	1645	3425	-0.005	2360.155	978297.008	4.395	20.835	-7.555	17.676	67.515
716456.7	8563440.4	1645	3450	-0.005	2360.000	978296.853	4.248	20.972	-7.604	17.615	67.957
716443.8	8563476.1	1645	3475	-0.005	2359.695	978296.548	3.955	21.558	-7.817	17.697	69.859
716447.0	8563500.9	1645	3500	-0.005	2360.125	978296.978	4.394	20.926	-7.588	17.732	67.809
716446.3	8563529.5	1645	3525	-0.006	2360.464	978297.317	4.743	19.787	-7.175	17.355	64.117
716460.5	8563555.1	1645	3550	-0.006	2360.589	978297.442	4.878	19.109	-6.929	17.057	61.920
716452.8	8563845.1	1645	3850	-0.017	2359.693	978296.546	4.085	18.357	-6.656	15.786	59.486
716453.3	8563873.3	1645	3875	-0.017	2359.468	978296.321	3.870	17.917	-6.497	15.290	58.058
716448.4	8563903.1	1645	3900	-0.017	2359.298	978296.151	3.711	17.729	-6.429	15.011	57.451
716449.6	8563924.4	1645	3925	-0.017	2359.233	978296.086	3.653	17.634	-6.394	14.893	57.142
716448.9	8563953.1	1645	3950	-0.017	2359.148	978296.001	3.579	17.668	-6.406	14.840	57.251
716444.0	8563976.9	1645	3975	-0.018	2359.007	978295.860	3.446	17.665	-6.405	14.706	57.243
716449.3	8563999.6	1645	4000	-0.018	2358.857	978295.710	3.304	17.704	-6.420	14.589	57.370
717449.0	8563473.0	1745	3475	-0.001	2359.889	978296.742	4.151	19.354	-7.018	16.487	62.716
717451.8	8563497.1	1745	3500	-0.001	2359.799	978296.652	4.070	19.416	-7.040	16.445	62.916
717449.4	8563530.2	1745	3525	-0.001	2359.269	978296.122	3.551	19.343	-7.014	15.880	62.679
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718648.1	8563505.5	0	201	+0.000	2348.490	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.005	2348.490	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	-0.005	2348.485	978285.343	-7.233	29.802	-10.806	11.763	96.572
718648.1	8563505.5	0	201	+0.005	2348.490	978285.343	-7.233	29.802	-10.806	11.763	96.572
716183.8	8563524.1	1620	3525	-0.002	2360.128	978296.986	4.410	20.236	-7.338	17.308	65.575
716198.5	8563542.9	1620	3550	-0.003	2360.172	978297.030	4.460	20.113	-7.293	17.280	65.175
716206.3	8563573.5	1620	3575	-0.003	2360.217	978297.075	4.516	19.951	-7.234	17.233	64.650
716197.4	8563599.9	1620	3600	-0.003	2360.067	978296.925	4.376	19.848	-7.197	17.027	64.316
716192.2	8563626.3	1620	3625	-0.003	2360.137	978296.995	4.455	19.744	-7.159	17.040	63.980
716197.4	8563652.0	1620	3650	-0.003	2360.042	978296.900	4.369	19.643	-7.123	16.890	63.651
716195.3	8563676.7	1620	3675	-0.003	2359.872	978296.730	4.208	19.582	-7.101	16.690	63.455
716204.9	8563700.9	1620	3700	-0.003	2359.967	978296.825	4.312	19.404	-7.036	16.680	62.876
716200.4	8563717.8	1620	3725	-0.003	2359.937	978296.795	4.288	19.340	-7.013	16.615	62.671

716196.1	8563744.6	1620	3750	-0.003	2359.797	978296.655	4.157	19.190	-6.958	16.389	62.183
716204.5	8563771.3	1620	3775	-0.003	2359.667	978296.525	4.037	19.106	-6.928	16.215	61.911
716201.9	8563877.5	1620	3875	-0.003	2359.237	978296.095	3.645	18.519	-6.715	15.449	60.010
716438.5	8563569.6	1645	3575	-0.002	2360.713	978297.571	5.012	18.898	-6.853	17.057	61.239
716443.4	8563596.5	1645	3600	-0.002	2360.718	978297.576	5.026	18.863	-6.840	17.049	61.124
716461.2	8563619.7	1645	3625	-0.002	2360.573	978297.431	4.890	19.024	-6.898	17.015	61.645
716467.9	8563654.1	1645	3650	-0.001	2360.179	978297.037	4.508	18.546	-6.725	16.329	60.096
716446.2	8563678.9	1645	3675	-0.001	2359.949	978296.807	4.287	19.025	-6.899	16.413	61.650
716453.7	8563706.4	1645	3700	-0.001	2359.779	978296.637	4.127	18.994	-6.887	16.233	61.550
716452.0	8563720.8	1645	3725	-0.001	2359.604	978296.462	3.957	19.008	-6.892	16.072	61.595
716440.2	8563741.2	1645	3750	-0.001	2359.474	978296.332	3.834	19.099	-6.925	16.007	61.889
716442.0	8563769.9	1645	3775	-0.001	2359.369	978296.227	3.739	19.184	-6.956	15.967	62.166
716442.5	8563795.2	1645	3800	-0.001	2359.259	978296.117	3.638	19.129	-6.936	15.831	61.987
716445.1	8563825.5	1645	3825	-0.001	2359.544	978296.402	3.934	18.778	-6.809	15.903	60.850
716846.9	8562248.7	1685	2250	-0.005	2355.415	978292.273	-0.757	20.279	-7.353	12.169	65.712
717267.0	8562131.6	1725	2125	-0.004	2351.991	978288.849	-4.221	22.065	-8.001	9.843	