
AEROoffice V5.6.0 2018-03-06
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Dongle-ID: 3-3541217

Boresight Misalignment Calculations
03/08/2022 8:12:51

Project: Pol-Cal 2022 E100-IMU IId
Projectfile: C:\AEROofficeV51\PROYECTOS\11_PROYECTOS_EAGLE100\

Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\11_PROYECTOS_EAGLE100\
Event Mark File : C:\AEROofficeV51\PROYECTOS\11_PROYECTOS_EAGLE100\
AT Result File : C:\AEROofficeV51\PROYECTOS\11_PROYECTOS_EAGLE100\
Importformat File: C:\AEROofficeV51\FORMATOS\PTOFORMAT

Coordinate system scalefactor correction for height applied
Using DTM

Local Coordinate System:
UTM - WGS84 SPH - ellipsoidal Altitude
System defined in: built-in coordinate system
Selected Zone: 30N
Meridian Convergence corrected

Loading INS Data
692 usable events found

Loading AT Data
AT input: angles found
692 AT Data Sets imported

692 events with matching eventnumbers found.

Postion offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	11444	120999.22	0.078	0.077	0.103	0.078	0.077	0.103
position:	11445	121015.74	0.032	0.067	-0.002	0.032	0.067	-0.002
position:	11446	121032.22	-0.055	0.067	0.083	-0.055	0.067	0.083
position:	11447	121048.62	0.000	0.074	0.051	0.000	0.074	0.051
position:	11448	121064.92	-0.010	0.068	0.021	-0.010	0.068	0.021
position:	11449	121080.62	0.008	0.033	0.015	0.008	0.033	0.015
position:	11450	121096.41	0.049	0.040	0.088	0.049	0.040	0.088
position:	11451	121112.71	0.057	0.061	0.080	0.057	0.061	0.080
position:	11452	121128.41	0.066	0.048	0.047	0.066	0.048	0.047
position:	11453	121143.91	0.072	0.065	-0.002	0.072	0.065	-0.002
position:	11454	121159.41	0.123	0.016	0.024	0.123	0.016	0.024
position:	11455	121174.90	0.115	0.021	0.046	0.115	0.021	0.046
position:	11456	121190.80	0.132	0.042	-0.042	0.132	0.042	-0.042
position:	11457	121206.99	0.160	0.045	-0.034	0.159	0.045	-0.034
position:	11458	121223.09	0.096	-0.018	-0.075	0.096	-0.018	-0.075
position:	11459	121239.09	0.186	0.020	0.040	0.186	0.020	0.040
position:	11460	121255.20	0.099	0.035	-0.017	0.099	0.035	-0.017
position:	11461	121270.98	0.119	0.021	0.007	0.119	0.021	0.007
position:	11462	121286.58	0.151	0.021	0.000	0.151	0.021	0.000
position:	11463	121302.28	0.180	0.035	0.030	0.180	0.035	0.030
position:	11464	121317.97	0.220	-0.007	-0.066	0.220	-0.007	-0.066
position:	11465	121333.68	0.191	0.038	-0.108	0.191	0.038	-0.108
position:	11466	121349.50	0.168	0.023	-0.183	0.168	0.023	-0.183
position:	11467	121365.27	0.020	0.043	-0.036	0.020	0.043	-0.036
position:	11468	121381.18	0.054	0.007	-0.009	0.054	0.007	-0.009
position:	11469	121397.07	0.073	0.059	0.018	0.073	0.059	0.018
position:	11470	121412.97	0.044	0.063	0.017	0.043	0.063	0.017
position:	11471	121428.86	0.056	0.034	0.084	0.056	0.033	0.084
position:	11472	121444.65	0.087	0.039	-0.057	0.087	0.039	-0.057
position:	11473	121460.66	0.046	0.025	0.021	0.045	0.025	0.021
position:	11474	121476.76	0.064	0.008	-0.090	0.064	0.008	-0.090
position:	11475	121492.84	0.056	0.050	-0.027	0.056	0.050	-0.027
position:	11476	121508.74	0.063	0.022	0.015	0.063	0.022	0.015
position:	11477	121524.84	0.061	0.030	-0.057	0.061	0.030	-0.057
position:	11478	121541.04	0.006	0.037	-0.044	0.006	0.037	-0.044
position:	11479	121557.04	0.059	0.039	0.016	0.059	0.039	0.016
position:	11480	121573.14	0.064	0.014	-0.013	0.064	0.014	-0.013
position:	11481	121589.52	0.048	0.037	-0.052	0.048	0.037	-0.052
position:	11482	121605.83	0.048	0.048	-0.055	0.048	0.048	-0.055
position:	11483	121622.02	0.026	0.030	0.014	0.025	0.030	0.014
position:	11484	121638.23	0.029	0.016	-0.005	0.029	0.016	-0.005
position:	11485	121654.52	0.021	0.047	0.012	0.021	0.047	0.012
position:	11486	121671.03	0.035	0.046	0.057	0.035	0.046	0.057

position:	11487	121687.41	0.020	0.045	0.050	0.020	0.045	0.050
position:	11488	121703.82	0.039	0.032	0.009	0.039	0.032	0.009
position:	11489	121720.11	0.032	0.031	-0.060	0.032	0.031	-0.060
position:	11490	121736.50	0.022	0.046	0.027	0.022	0.046	0.027
position:	11491	121752.81	0.029	0.031	0.031	0.029	0.031	0.031
position:	11492	121769.00	0.038	0.033	0.060	0.038	0.033	0.060
position:	11493	121784.90	0.051	0.027	-0.055	0.051	0.027	-0.055
position:	11494	121800.70	0.043	0.030	-0.033	0.043	0.030	-0.033
position:	11495	121816.40	0.016	0.050	0.052	0.016	0.050	0.052
position:	11496	121832.09	0.013	0.033	0.045	0.013	0.033	0.045
position:	11497	121847.79	0.045	0.040	0.043	0.045	0.040	0.043
position:	11498	121863.59	0.021	0.036	0.021	0.021	0.036	0.021
position:	11499	121879.49	0.053	0.031	-0.031	0.053	0.031	-0.031
position:	11500	121895.39	0.019	0.069	0.032	0.019	0.069	0.032
position:	11501	121911.17	0.014	0.016	0.004	0.014	0.016	0.004
position:	11502	121927.27	-0.032	0.050	0.016	-0.032	0.050	0.016
position:	11503	121943.67	0.027	-0.008	-0.004	0.027	-0.008	-0.004
position:	11504	121959.87	0.037	0.023	0.005	0.037	0.023	0.005
position:	11505	121975.97	0.000	0.056	0.021	0.000	0.056	0.021
position:	11506	121992.07	0.053	0.044	0.044	0.053	0.044	0.044
position:	11507	122008.06	0.059	0.016	-0.042	0.059	0.016	-0.042
position:	11508	122024.06	0.012	0.013	-0.049	0.012	0.013	-0.049
position:	11509	122040.60	0.026	0.039	0.042	0.026	0.039	0.042
position:	11510	122057.06	-0.003	0.029	-0.015	-0.003	0.029	-0.015
position:	11511	122073.49	0.027	0.029	0.042	0.027	0.029	0.042
position:	11512	122089.51	0.015	0.013	0.023	0.015	0.013	0.023
position:	11513	122105.75	0.011	0.039	-0.028	0.011	0.039	-0.028
position:	11514	122122.24	0.021	0.016	-0.003	0.021	0.016	-0.003
position:	11515	122138.55	0.030	0.038	0.033	0.030	0.038	0.033
position:	11516	122154.84	0.049	0.020	0.013	0.049	0.020	0.013
position:	11517	122171.34	0.041	0.020	-0.026	0.041	0.020	-0.026
position:	11518	122187.74	0.009	0.003	-0.109	0.009	0.003	-0.109
position:	11519	122204.14	0.001	-0.003	0.015	0.001	-0.003	0.015
position:	11520	122219.83	0.016	0.044	-0.016	0.016	0.044	-0.016
position:	11521	122235.43	0.003	0.021	-0.010	0.003	0.021	-0.010
position:	11522	122251.22	-0.012	0.051	-0.011	-0.012	0.051	-0.011
position:	11523	122266.93	0.027	-0.036	-0.131	0.027	-0.036	-0.131
position:	11524	122282.34	-0.022	-0.012	-0.042	-0.022	-0.012	-0.042
position:	11525	122297.52	0.014	-0.037	-0.018	0.014	-0.037	-0.018
position:	11526	122312.92	0.027	0.023	-0.001	0.027	0.023	-0.001
position:	11527	122329.11	0.002	0.026	-0.067	0.002	0.026	-0.067
position:	11528	122345.12	-0.043	-0.008	-0.115	-0.043	-0.008	-0.115
position:	11529	122361.11	-0.016	-0.011	-0.019	-0.016	-0.011	-0.019
position:	11530	122559.17	0.016	-0.085	-0.206	0.016	-0.085	-0.206
position:	11531	122570.51	0.058	-0.048	-0.054	0.058	-0.048	-0.054
position:	11532	122581.68	0.056	-0.043	-0.036	0.056	-0.043	-0.036
position:	11533	122593.27	0.055	-0.054	-0.061	0.055	-0.054	-0.061
position:	11534	122604.87	0.144	-0.077	-0.064	0.144	-0.077	-0.064
position:	11535	122616.18	0.080	-0.050	-0.034	0.080	-0.050	-0.034
position:	11536	122627.17	0.138	-0.111	0.006	0.138	-0.111	0.006
position:	11537	122638.37	0.137	0.002	-0.014	0.137	0.002	-0.014
position:	11538	122649.56	0.165	-0.040	-0.011	0.165	-0.040	-0.011
position:	11539	122660.56	0.183	-0.042	0.024	0.183	-0.042	0.024
position:	11540	122671.36	0.153	-0.047	0.030	0.153	-0.047	0.030
position:	11541	122682.26	0.130	-0.033	0.005	0.130	-0.033	0.005
position:	11542	122693.16	0.126	-0.032	0.000	0.126	-0.032	0.000
position:	11543	122704.16	0.127	-0.112	0.040	0.127	-0.112	0.040
position:	11544	122715.35	0.127	-0.010	-0.112	0.127	-0.010	-0.112
position:	11545	122726.64	0.134	-0.034	-0.028	0.134	-0.034	-0.028
position:	11546	122737.75	0.180	-0.033	0.012	0.180	-0.033	0.012
position:	11547	122748.74	0.124	-0.028	0.014	0.124	-0.028	0.014
position:	11548	122759.75	0.159	-0.058	-0.024	0.159	-0.058	-0.024
position:	11549	122770.95	0.164	-0.037	0.017	0.164	-0.037	0.017
position:	11550	122782.03	0.141	0.005	-0.061	0.141	0.005	-0.061
position:	11551	122793.14	0.166	-0.025	0.036	0.166	-0.025	0.036
position:	11552	122804.13	0.145	-0.052	-0.098	0.145	-0.052	-0.098
position:	11553	122814.94	0.170	-0.029	-0.006	0.170	-0.029	-0.006
position:	11554	122825.73	0.137	-0.022	0.019	0.137	-0.022	0.019
position:	11555	122836.72	0.118	-0.059	0.024	0.118	-0.059	0.024
position:	11556	122847.73	0.167	-0.055	0.010	0.167	-0.055	0.010
position:	11557	122858.43	0.171	-0.029	-0.101	0.171	-0.029	-0.101
position:	11558	122868.92	0.157	0.001	-0.001	0.157	0.001	-0.001
position:	11559	122879.42	0.150	-0.014	-0.031	0.150	-0.014	-0.031
position:	11560	122890.12	0.157	0.031	-0.019	0.157	0.031	-0.019
position:	11561	122900.92	0.134	-0.054	-0.010	0.134	-0.054	-0.010
position:	11562	122911.62	0.165	-0.078	0.009	0.165	-0.078	0.009
position:	11563	122922.11	0.131	-0.027	-0.088	0.131	-0.027	-0.088
position:	11564	122932.81	0.150	0.014	-0.056	0.150	0.014	-0.056
position:	11565	122943.41	0.173	-0.008	-0.070	0.173	-0.008	-0.070
position:	11566	122954.11	0.138	-0.023	0.010	0.138	-0.023	0.010
position:	11567	122964.61	0.134	0.008	0.000	0.134	0.008	0.000
position:	11568	122975.11	0.149	-0.033	-0.031	0.149	-0.033	-0.031
position:	11569	122985.82	0.227	-0.015	0.025	0.227	-0.015	0.025
position:	11570	122996.31	0.136	-0.045	-0.064	0.136	-0.045	-0.064
position:	11571	123007.00	0.223	0.000	0.013	0.223	0.000	0.013
position:	11572	123017.00	0.124	-0.047	0.019	0.124	-0.047	0.019
position:	11573	123028.50	0.162	-0.031	-0.020	0.162	-0.031	-0.020
position:	11574	123039.10	0.133	-0.005	-0.029	0.133	-0.005	-0.029
position:	11575	123049.90	0.124	-0.035	-0.005	0.124	-0.035	-0.005
position:	11576	123060.69	0.126	0.014	0.007	0.126	0.014	0.007
position:	11577	123071.39	0.119	-0.036	0.034	0.119	-0.036	0.034
position:	11578	123081.99	0.209	-0.056	-0.055	0.209	-0.056	-0.055

position:	11579	123092.79	0.121	-0.035	-0.061	0.121	-0.035	-0.061
position:	11580	123103.69	0.170	-0.043	-0.091	0.170	-0.043	-0.091
position:	11581	123114.58	0.207	-0.044	0.008	0.207	-0.044	0.008
position:	11582	123125.29	0.166	-0.009	0.019	0.166	-0.009	0.019
position:	11583	123136.09	0.207	-0.036	-0.091	0.207	-0.036	-0.091
position:	11584	123146.69	0.174	-0.048	-0.017	0.174	-0.048	-0.017
position:	11585	123157.29	0.219	-0.060	0.003	0.219	-0.060	0.003
position:	11586	123167.77	0.215	-0.070	-0.044	0.215	-0.070	-0.044
position:	11587	123178.08	0.173	-0.064	0.000	0.173	-0.064	0.000
position:	11588	123188.67	0.178	-0.053	-0.121	0.178	-0.053	-0.121
position:	11589	123199.18	0.200	-0.042	-0.013	0.200	-0.042	-0.013
position:	11590	123209.77	0.157	-0.024	0.053	0.157	-0.024	0.053
position:	11591	123220.53	0.192	0.038	0.090	0.192	0.038	0.090
position:	11592	123230.97	0.196	-0.067	0.101	0.196	-0.067	0.101
position:	11593	123241.36	0.132	0.007	0.103	0.132	0.007	0.103
position:	11594	123251.96	0.148	0.008	0.098	0.148	0.008	0.098
position:	11595	123262.77	0.006	-0.015	0.144	0.006	-0.015	0.144
position:	11596	123273.36	0.166	0.050	-0.143	0.166	0.050	-0.143
position:	11597	123283.96	0.127	-0.004	-0.048	0.127	-0.004	-0.048
position:	11598	123294.66	0.185	-0.020	0.013	0.185	-0.020	0.013
position:	11599	123305.26	0.184	-0.040	0.110	0.184	-0.040	0.110
position:	11600	123315.86	0.129	-0.047	0.050	0.129	-0.047	0.050
position:	11601	123326.66	0.073	0.020	0.063	0.073	0.020	0.063
position:	11602	123337.35	0.020	-0.039	0.157	0.020	-0.039	0.157
position:	11603	123347.96	0.103	0.030	-0.170	0.103	0.030	-0.170
position:	11604	123358.50	0.082	0.028	-0.118	0.082	0.028	-0.118
position:	11605	123369.04	0.144	0.054	0.040	0.144	0.054	0.040
position:	11606	123379.75	0.259	0.029	0.068	0.259	0.029	0.068
position:	11607	123390.45	0.189	0.051	0.097	0.189	0.051	0.097
position:	11608	123400.94	0.223	-0.025	0.056	0.223	-0.025	0.056
position:	11609	123411.34	0.183	-0.067	0.071	0.183	-0.067	0.071
position:	11610	123421.84	0.160	-0.058	0.074	0.160	-0.058	0.074
position:	11611	123432.44	0.083	0.013	0.118	0.083	0.013	0.118
position:	11612	123443.03	0.073	0.023	0.071	0.073	0.023	0.071
position:	11613	123453.63	0.051	0.037	0.059	0.051	0.037	0.059
position:	11614	123464.33	0.022	0.096	0.184	0.022	0.096	0.184
position:	11615	123475.03	-0.022	0.071	0.083	-0.022	0.071	0.083
position:	11616	123715.89	0.046	0.086	0.043	0.046	0.086	0.043
position:	11617	123731.68	0.056	0.101	0.049	0.056	0.101	0.049
position:	11618	123747.28	0.038	0.052	-0.008	0.038	0.052	-0.008
position:	11619	123762.59	0.071	0.020	-0.017	0.071	0.020	-0.017
position:	11620	123777.78	-0.013	0.016	0.041	-0.013	0.016	0.041
position:	11621	123793.18	-0.015	0.007	0.052	-0.015	0.007	0.052
position:	11622	123808.58	-0.060	0.016	-0.006	-0.060	0.016	-0.006
position:	11623	123823.87	-0.033	0.023	0.018	-0.033	0.023	0.018
position:	11624	123839.08	-0.062	0.048	-0.037	-0.062	0.048	-0.037
position:	11625	123854.17	-0.032	0.076	-0.018	-0.032	0.076	-0.018
position:	11626	123869.17	0.031	0.085	-0.039	0.031	0.085	-0.039
position:	11627	123884.27	0.038	0.054	-0.006	0.038	0.054	-0.006
position:	11628	123899.48	0.052	0.031	0.050	0.052	0.031	0.050
position:	11629	123914.75	0.045	-0.010	-0.013	0.045	-0.010	-0.013
position:	11630	123930.06	-0.025	0.016	0.093	-0.025	0.016	0.093
position:	11631	123945.25	-0.032	0.002	0.070	-0.032	0.002	0.070
position:	11632	123960.65	-0.056	-0.006	0.046	-0.056	-0.006	0.046
position:	11633	123976.05	-0.029	0.028	-0.021	-0.029	0.028	-0.021
position:	11634	123991.35	-0.028	0.022	0.016	-0.028	0.022	0.016
position:	11635	124006.54	-0.040	-0.002	-0.071	-0.040	-0.002	-0.071
position:	11636	124021.65	-0.041	-0.022	-0.057	-0.041	-0.022	-0.057
position:	11637	124036.93	-0.036	-0.006	0.052	-0.036	-0.006	0.052
position:	11638	124052.33	-0.052	0.013	0.032	-0.052	0.013	0.032
position:	11639	124067.53	-0.057	-0.001	0.032	-0.057	-0.001	0.032
position:	11640	124082.92	-0.014	0.064	0.046	-0.014	0.064	0.046
position:	11641	124098.23	-0.007	-0.050	-0.004	-0.007	-0.050	-0.004
position:	11642	124113.33	-0.004	0.013	-0.004	-0.004	0.013	-0.004
position:	11643	124128.32	0.021	-0.052	-0.005	0.021	-0.052	-0.005
position:	11644	124143.52	0.003	-0.025	0.035	0.003	-0.025	0.035
position:	11645	124158.91	0.019	-0.054	0.012	0.019	-0.054	0.012
position:	11646	124174.22	-0.015	-0.032	0.043	-0.015	-0.032	0.043
position:	11647	124189.71	-0.004	0.000	-0.066	-0.004	0.000	-0.066
position:	11648	124205.11	0.035	0.002	0.031	0.035	0.002	0.031
position:	11649	124220.91	-0.018	0.023	0.060	-0.018	0.023	0.060
position:	11650	124236.60	-0.018	0.005	-0.024	-0.018	0.005	-0.024
position:	11651	124251.91	-0.031	0.014	0.052	-0.031	0.014	0.052
position:	11652	124267.60	-0.024	-0.013	0.078	-0.024	-0.013	0.078
position:	11653	124283.20	-0.011	-0.029	-0.039	-0.011	-0.029	-0.039
position:	11654	124298.70	0.001	0.039	-0.038	0.001	0.039	-0.038
position:	11655	124314.19	0.009	0.012	-0.045	0.009	0.012	-0.045
position:	11656	124329.79	-0.014	0.031	0.064	-0.014	0.031	0.064
position:	11657	124344.98	-0.009	0.003	0.043	-0.009	0.003	0.043
position:	11658	124360.52	0.024	-0.039	0.071	0.024	-0.039	0.071
position:	11659	124375.39	0.004	0.000	0.054	0.004	0.000	0.054
position:	11660	124390.18	-0.001	0.006	0.049	-0.001	0.006	0.049
position:	11661	124404.87	0.043	0.001	-0.036	0.043	0.001	-0.036
position:	11662	124419.49	-0.056	0.034	-0.035	-0.056	0.034	-0.035
position:	11663	124434.07	-0.032	0.022	0.052	-0.032	0.022	0.052
position:	11664	124448.77	0.006	-0.016	0.013	0.006	-0.016	0.013
position:	11665	124463.78	0.012	-0.014	0.015	0.012	-0.014	0.015
position:	11666	124478.67	-0.030	0.048	-0.036	-0.030	0.048	-0.036
position:	11667	124493.87	-0.005	-0.048	0.053	-0.005	-0.048	0.053
position:	11668	124509.06	-0.003	0.005	-0.006	-0.003	0.005	-0.006
position:	11669	124524.35	-0.021	-0.029	-0.064	-0.021	-0.029	-0.064
position:	11670	124539.66	-0.014	-0.041	0.019	-0.014	-0.041	0.019

position:	11671	124555.15	-0.010	0.023	0.011	-0.010	0.023	0.011
position:	11672	124570.36	0.008	0.063	-0.092	0.008	0.063	-0.092
position:	11673	124585.35	-0.026	-0.046	0.017	-0.026	-0.046	0.017
position:	11674	124600.51	0.019	-0.010	0.062	0.019	-0.010	0.062
position:	11675	124615.50	-0.050	0.033	0.047	-0.050	0.033	0.047
position:	11676	124630.43	-0.001	0.008	0.009	-0.001	0.008	0.009
position:	11677	124645.50	-0.027	0.032	0.001	-0.027	0.032	0.001
position:	11678	124660.64	-0.043	0.030	-0.003	-0.043	0.030	-0.003
position:	11679	124676.13	-0.039	-0.007	-0.030	-0.039	-0.007	-0.030
position:	11680	124691.84	-0.066	-0.008	0.000	-0.066	-0.008	0.000
position:	11681	124707.03	-0.052	0.017	0.010	-0.052	0.017	0.010
position:	11682	124722.32	-0.005	-0.028	0.019	-0.005	-0.028	0.019
position:	11683	124737.72	0.004	0.055	-0.021	0.004	0.055	-0.021
position:	11684	124753.49	0.004	-0.017	0.009	0.004	-0.017	0.009
position:	11685	124768.83	-0.054	0.001	-0.003	-0.054	0.001	-0.003
position:	11686	124783.91	-0.034	0.033	-0.082	-0.034	0.033	-0.082
position:	11687	124799.01	-0.037	0.017	-0.045	-0.037	0.017	-0.045
position:	11688	124814.32	-0.062	0.005	0.039	-0.062	0.005	0.039
position:	11689	124829.50	-0.058	-0.042	-0.028	-0.058	-0.042	-0.028
position:	11690	124843.90	-0.034	-0.031	-0.062	-0.034	-0.031	-0.062
position:	11691	124858.31	-0.028	0.015	0.038	-0.028	0.015	0.038
position:	11692	124872.71	-0.072	0.044	0.063	-0.072	0.044	0.063
position:	11693	124887.49	-0.054	-0.031	-0.001	-0.054	-0.031	-0.001
position:	11694	124902.40	-0.063	-0.008	-0.006	-0.063	-0.008	-0.006
position:	11695	124917.29	-0.051	-0.007	-0.073	-0.051	-0.007	-0.073
position:	11696	124932.30	-0.115	-0.047	-0.056	-0.116	-0.047	-0.056
position:	11697	124947.49	-0.055	0.013	0.012	-0.055	0.013	0.012
position:	11698	124962.59	-0.053	-0.061	-0.038	-0.053	-0.061	-0.038
position:	11699	124977.59	-0.033	-0.014	-0.020	-0.033	-0.014	-0.020
position:	11700	124992.50	-0.031	-0.067	-0.074	-0.032	-0.067	-0.074
position:	11701	125007.58	-0.041	-0.044	0.036	-0.041	-0.044	0.036
position:	11702	125210.85	0.005	-0.071	-0.089	0.005	-0.071	-0.089
position:	11703	125222.15	0.013	-0.022	-0.062	0.013	-0.022	-0.062
position:	11704	125233.55	0.092	-0.119	0.004	0.092	-0.119	0.004
position:	11705	125244.94	0.054	-0.055	-0.039	0.054	-0.055	-0.039
position:	11706	125256.14	0.108	-0.073	-0.031	0.108	-0.073	-0.031
position:	11707	125267.50	0.096	-0.054	-0.008	0.096	-0.054	-0.008
position:	11708	125278.74	0.114	-0.051	0.065	0.114	-0.051	0.065
position:	11709	125289.93	0.059	-0.041	-0.090	0.059	-0.041	-0.090
position:	11710	125301.03	0.094	-0.035	-0.046	0.094	-0.035	-0.046
position:	11711	125312.02	0.090	-0.012	-0.073	0.090	-0.012	-0.073
position:	11712	125323.13	0.039	-0.007	-0.051	0.039	-0.007	-0.051
position:	11713	125334.33	0.044	-0.018	0.023	0.044	-0.018	0.023
position:	11714	125345.43	0.100	-0.043	0.006	0.099	-0.043	0.006
position:	11715	125356.42	0.078	-0.017	0.023	0.078	-0.017	0.023
position:	11716	125367.62	0.073	-0.002	0.004	0.073	-0.002	0.004
position:	11717	125378.93	0.064	-0.011	-0.096	0.064	-0.011	-0.096
position:	11718	125390.22	0.135	-0.065	0.001	0.135	-0.065	0.001
position:	11719	125401.51	0.082	0.058	-0.016	0.082	0.058	-0.016
position:	11720	125412.92	0.125	-0.061	0.014	0.125	-0.061	0.014
position:	11721	125424.31	0.099	-0.011	-0.054	0.099	-0.011	-0.054
position:	11722	125435.82	0.171	-0.017	-0.020	0.171	-0.017	-0.020
position:	11723	125447.22	0.122	-0.032	0.018	0.122	-0.032	0.018
position:	11724	125458.62	0.126	-0.040	0.013	0.126	-0.040	0.013
position:	11725	125470.11	0.088	0.006	0.012	0.088	0.006	0.012
position:	11726	125481.20	0.121	-0.023	-0.068	0.121	-0.023	-0.068
position:	11727	125492.21	0.074	0.007	0.017	0.074	0.007	0.017
position:	11728	125503.61	0.069	-0.004	-0.049	0.069	-0.004	-0.049
position:	11729	125514.80	0.109	-0.037	-0.062	0.109	-0.037	-0.062
position:	11730	125525.89	0.062	-0.019	0.035	0.062	-0.019	0.035
position:	11731	125536.79	0.111	0.001	-0.085	0.111	0.001	-0.085
position:	11732	125547.79	0.073	0.021	0.027	0.073	0.021	0.027
position:	11733	125558.80	0.098	-0.068	0.044	0.098	-0.068	0.044
position:	11734	125569.79	0.114	-0.047	-0.046	0.114	-0.047	-0.046
position:	11735	125580.78	0.102	-0.015	-0.012	0.102	-0.015	-0.012
position:	11736	125591.79	0.105	-0.016	-0.004	0.105	-0.016	-0.004
position:	11737	125602.88	0.151	0.005	0.009	0.151	0.005	0.009
position:	11738	125613.78	0.115	-0.003	0.044	0.115	-0.003	0.044
position:	11739	125624.51	0.143	-0.002	-0.054	0.143	-0.002	-0.054
position:	11740	125635.08	0.136	-0.027	-0.074	0.136	-0.027	-0.074
position:	11741	125645.69	0.085	-0.004	0.012	0.085	-0.004	0.012
position:	11742	125656.18	0.138	-0.021	0.038	0.138	-0.021	0.038
position:	11743	125666.68	0.105	0.012	-0.057	0.105	0.012	-0.057
position:	11744	125676.98	0.097	-0.002	-0.057	0.097	-0.002	-0.057
position:	11745	125687.18	0.096	-0.008	0.036	0.096	-0.008	0.036
position:	11746	125697.56	0.091	-0.013	0.026	0.091	-0.013	0.026
position:	11747	125708.07	0.119	0.018	-0.028	0.119	0.018	-0.028
position:	11748	125718.57	0.098	0.003	0.013	0.098	0.003	0.013
position:	11749	125729.17	0.089	-0.008	0.028	0.089	-0.008	0.028
position:	11750	125739.76	0.127	-0.059	0.014	0.127	-0.059	0.014
position:	11751	125750.46	0.045	0.049	-0.001	0.045	0.049	-0.001
position:	11752	125761.26	0.104	-0.054	0.008	0.104	-0.054	0.008
position:	11753	125772.05	0.094	-0.007	-0.007	0.094	-0.007	-0.007
position:	11754	125783.06	0.110	-0.041	-0.096	0.110	-0.041	-0.096
position:	11755	125794.15	0.067	-0.019	-0.055	0.067	-0.019	-0.055
position:	11756	125805.16	0.089	-0.018	0.043	0.089	-0.018	0.043
position:	11757	125816.16	0.062	0.019	0.008	0.062	0.019	0.008
position:	11758	125827.05	0.059	-0.031	0.011	0.059	-0.031	0.011
position:	11759	125838.05	0.077	-0.042	0.030	0.077	-0.042	0.030
position:	11760	125848.95	0.101	-0.056	-0.054	0.101	-0.056	-0.054
position:	11761	125859.74	0.099	-0.072	-0.030	0.099	-0.072	-0.030
position:	11762	125870.44	0.073	-0.034	-0.020	0.073	-0.034	-0.020

position:	11763	125881.34	0.111	0.014	0.054	0.111	0.014	0.054
position:	11764	125892.24	0.057	0.037	0.026	0.057	0.037	0.026
position:	11765	125902.93	0.080	0.001	0.037	0.080	0.001	0.037
position:	11766	125913.74	0.107	0.027	0.008	0.107	0.027	0.008
position:	11767	125924.33	0.059	-0.020	0.032	0.059	-0.020	0.032
position:	11768	125935.02	0.086	0.026	0.005	0.086	0.026	0.005
position:	11769	125945.83	0.122	-0.014	-0.048	0.122	-0.014	-0.048
position:	11770	125956.73	0.127	0.018	0.056	0.127	0.018	0.056
position:	11771	125967.82	0.095	0.034	0.048	0.095	0.034	0.048
position:	11772	125979.03	0.124	0.014	0.011	0.124	0.014	0.011
position:	11773	125989.82	0.142	0.027	-0.030	0.142	0.027	-0.030
position:	11774	126000.43	0.111	0.000	-0.059	0.111	0.000	-0.059
position:	11775	126011.22	0.077	0.055	-0.001	0.077	0.055	-0.001
position:	11776	126022.02	0.105	0.050	-0.013	0.105	0.050	-0.013
position:	11777	126032.81	0.084	0.072	-0.016	0.084	0.072	-0.016
position:	11778	126043.62	0.157	0.005	-0.012	0.157	0.005	-0.012
position:	11779	126054.42	0.094	-0.033	-0.002	0.094	-0.033	-0.002
position:	11780	126065.11	0.079	-0.028	0.013	0.079	-0.028	0.013
position:	11781	126075.81	0.055	0.020	0.043	0.055	0.020	0.043
position:	11782	126086.62	0.053	0.044	0.015	0.053	0.044	0.015
position:	11783	126097.11	0.026	0.031	0.032	0.026	0.031	0.032
position:	11784	126107.60	0.049	0.048	-0.003	0.049	0.048	-0.003
position:	11785	126118.00	0.016	0.064	0.062	0.016	0.064	0.062
position:	11786	126128.50	-0.029	0.125	0.036	-0.029	0.125	0.036
position:	11787	126138.90	-0.010	0.154	0.089	-0.010	0.154	0.089
position:	11788	126398.50	-0.010	0.119	-0.084	-0.010	0.119	-0.084
position:	11789	126413.45	0.003	0.107	-0.030	0.003	0.107	-0.030
position:	11790	126428.50	-0.031	0.074	-0.029	-0.031	0.074	-0.029
position:	11791	126443.51	-0.040	0.038	-0.031	-0.040	0.038	-0.031
position:	11792	126458.34	-0.111	0.108	0.005	-0.111	0.108	0.005
position:	11793	126473.45	-0.021	0.007	-0.039	-0.021	0.007	-0.039
position:	11794	126488.64	-0.097	0.050	0.022	-0.097	0.050	0.022
position:	11795	126503.74	-0.081	0.033	0.005	-0.081	0.033	0.005
position:	11796	126518.74	-0.112	-0.008	0.018	-0.112	-0.008	0.018
position:	11797	126533.75	-0.153	-0.012	0.016	-0.153	-0.012	0.016
position:	11798	126548.53	-0.134	0.091	-0.020	-0.134	0.091	-0.020
position:	11799	126563.04	-0.095	0.012	-0.005	-0.095	0.012	-0.005
position:	11800	126577.93	-0.114	0.045	-0.011	-0.114	0.045	-0.011
position:	11801	126592.83	-0.124	0.010	-0.026	-0.124	0.010	-0.026
position:	11802	126607.62	-0.143	-0.016	-0.025	-0.143	-0.016	-0.025
position:	11803	126622.53	-0.176	0.014	-0.112	-0.176	0.014	-0.112
position:	11804	126637.22	-0.158	0.043	-0.011	-0.158	0.043	-0.011
position:	11805	126652.11	-0.149	0.021	0.011	-0.149	0.021	0.011
position:	11806	126666.92	-0.138	-0.014	-0.031	-0.138	-0.014	-0.031
position:	11807	126681.82	-0.108	0.034	-0.054	-0.108	0.034	-0.054
position:	11808	126696.42	-0.181	0.036	-0.001	-0.181	0.036	-0.001
position:	11809	126710.71	-0.113	-0.033	-0.142	-0.113	-0.033	-0.142
position:	11810	126724.72	-0.213	0.005	-0.059	-0.213	0.005	-0.059
position:	11811	126739.00	-0.113	-0.028	-0.053	-0.114	-0.028	-0.053
position:	11812	126753.49	-0.106	0.006	-0.031	-0.106	0.006	-0.031
position:	11813	126768.20	-0.115	-0.041	0.021	-0.115	-0.041	0.021
position:	11814	126782.99	-0.098	-0.020	0.048	-0.098	-0.020	0.048
position:	11815	126798.09	-0.104	-0.051	-0.033	-0.104	-0.051	-0.033
position:	11816	126813.20	-0.128	-0.030	-0.017	-0.128	-0.030	-0.017
position:	11817	126828.30	-0.086	-0.018	-0.045	-0.086	-0.018	-0.045
position:	11818	126843.68	-0.102	-0.029	0.010	-0.102	-0.029	0.010
position:	11819	126859.08	-0.072	-0.031	-0.007	-0.072	-0.031	-0.007
position:	11820	126874.08	-0.104	0.024	0.037	-0.104	0.024	0.037
position:	11821	126888.49	-0.078	0.012	-0.006	-0.078	0.012	-0.006
position:	11822	126902.38	-0.091	-0.023	0.007	-0.091	-0.024	0.007
position:	11823	126916.17	-0.094	0.013	-0.073	-0.094	0.013	-0.073
position:	11824	126930.36	-0.085	-0.018	0.005	-0.085	-0.018	0.005
position:	11825	126944.57	-0.087	0.000	0.028	-0.087	0.000	0.028
position:	11826	126958.57	-0.092	0.002	0.006	-0.092	0.002	0.006
position:	11827	126972.48	-0.134	-0.007	-0.052	-0.134	-0.007	-0.052
position:	11828	126986.16	-0.129	0.019	-0.014	-0.129	0.019	-0.014
position:	11829	127000.26	-0.120	0.009	0.028	-0.120	0.009	0.028
position:	11830	127014.55	-0.132	0.035	0.004	-0.132	0.035	0.004
position:	11831	127028.56	-0.111	-0.049	-0.063	-0.111	-0.049	-0.063
position:	11832	127042.66	-0.124	-0.024	0.029	-0.124	-0.024	0.029
position:	11833	127056.86	-0.113	-0.028	-0.064	-0.113	-0.028	-0.064
position:	11834	127070.76	-0.094	0.016	0.019	-0.094	0.016	0.019
position:	11835	127084.95	-0.123	0.016	0.019	-0.123	0.016	0.019
position:	11836	127099.24	-0.073	-0.003	0.033	-0.073	-0.003	0.033
position:	11837	127113.64	-0.094	0.016	0.037	-0.094	0.016	0.037
position:	11838	127128.04	-0.090	-0.007	0.024	-0.090	-0.007	0.024
position:	11839	127142.34	-0.145	0.016	-0.053	-0.145	0.016	-0.053
position:	11840	127157.33	-0.099	-0.045	-0.071	-0.099	-0.045	-0.071
position:	11841	127172.23	-0.093	0.027	0.040	-0.093	0.027	0.040
position:	11842	127187.48	-0.080	0.005	0.040	-0.080	0.005	0.040
position:	11843	127202.53	-0.083	-0.018	0.038	-0.083	-0.018	0.038
position:	11844	127217.63	-0.107	0.021	-0.007	-0.107	0.021	-0.007
position:	11845	127232.73	-0.104	-0.017	-0.058	-0.104	-0.017	-0.058
position:	11846	127247.72	-0.066	-0.015	0.073	-0.066	-0.015	0.073
position:	11847	127262.71	-0.090	0.018	0.015	-0.090	0.018	0.015
position:	11848	127277.11	-0.083	0.008	-0.053	-0.083	0.008	-0.053
position:	11849	127291.62	-0.088	-0.017	-0.003	-0.088	-0.017	-0.003
position:	11850	127305.91	-0.070	0.006	-0.050	-0.070	0.006	-0.050
position:	11851	127319.81	-0.057	-0.008	0.013	-0.057	-0.008	0.013
position:	11852	127333.61	-0.098	0.053	0.025	-0.098	0.053	0.025
position:	11853	127347.50	-0.093	-0.011	-0.014	-0.093	-0.011	-0.014
position:	11854	127362.00	-0.108	-0.029	0.025	-0.108	-0.029	0.025

position:	11855	127376.81	-0.103	-0.013	-0.001	-0.103	-0.013	-0.001
position:	11856	127392.00	-0.094	0.023	0.005	-0.094	0.023	0.005
position:	11857	127406.90	-0.117	0.024	0.059	-0.117	0.024	0.059
position:	11858	127422.00	-0.109	-0.036	-0.048	-0.109	-0.036	-0.048
position:	11859	127437.19	-0.094	0.018	0.009	-0.094	0.018	0.009
position:	11860	127452.29	-0.123	-0.002	-0.011	-0.123	-0.002	-0.011
position:	11861	127467.38	-0.078	0.023	0.036	-0.078	0.023	0.036
position:	11862	127482.28	-0.078	0.011	0.008	-0.078	0.011	0.008
position:	11863	127496.79	-0.078	0.028	-0.005	-0.078	0.028	-0.005
position:	11864	127511.28	-0.038	-0.028	0.004	-0.038	-0.028	0.004
position:	11865	127525.88	-0.075	-0.042	0.007	-0.075	-0.042	0.007
position:	11866	127540.54	-0.066	-0.020	-0.045	-0.066	-0.020	-0.045
position:	11867	127555.18	-0.084	-0.022	0.003	-0.084	-0.022	0.003
position:	11868	127569.78	-0.092	-0.043	0.034	-0.092	-0.043	0.034
position:	11869	127584.51	-0.081	-0.034	-0.002	-0.081	-0.034	-0.002
position:	11870	127599.17	-0.036	-0.057	-0.005	-0.036	-0.057	-0.005
position:	11871	127614.36	-0.105	-0.024	0.018	-0.105	-0.024	0.018
position:	11872	127629.17	-0.074	-0.051	0.025	-0.074	-0.051	0.025
position:	11873	127644.06	-0.054	-0.057	0.003	-0.054	-0.057	0.003
position:	11874	127658.95	-0.058	-0.022	0.037	-0.058	-0.022	0.037
position:	11875	127671.22	0.024	-0.032	-0.047	0.024	-0.032	-0.047
position:	11876	127682.71	0.026	-0.039	0.001	0.026	-0.039	0.001
position:	11877	127694.22	0.080	-0.057	-0.020	0.080	-0.057	-0.020
position:	11878	127905.62	0.052	-0.008	0.062	0.052	-0.008	0.062
position:	11879	127916.91	0.065	-0.039	0.044	0.065	-0.039	0.044
position:	11880	127928.11	0.050	-0.070	-0.025	0.050	-0.070	-0.025
position:	11881	127939.31	0.081	-0.054	0.026	0.081	-0.054	0.026
position:	11882	127950.61	0.074	-0.031	-0.012	0.074	-0.031	-0.012
position:	11883	127961.90	0.061	-0.022	0.080	0.061	-0.022	0.080
position:	11884	127973.30	0.063	-0.042	0.082	0.063	-0.042	0.082
position:	11885	127984.41	0.071	-0.022	0.053	0.071	-0.022	0.053
position:	11886	127995.54	0.021	0.001	0.049	0.021	0.001	0.049
position:	11887	128006.40	0.027	-0.025	-0.064	0.027	-0.025	-0.064
position:	11888	128017.41	0.045	-0.052	-0.040	0.045	-0.052	-0.040
position:	11889	128028.69	0.026	-0.015	0.087	0.026	-0.015	0.087
position:	11890	128040.19	0.071	-0.041	0.010	0.071	-0.041	0.010
position:	11891	128051.39	0.040	0.004	0.013	0.040	0.004	0.013
position:	11892	128062.29	0.066	-0.005	0.007	0.066	-0.005	0.007
position:	11893	128073.29	0.037	-0.011	0.012	0.037	-0.011	0.012
position:	11894	128084.58	0.048	-0.014	0.009	0.048	-0.014	0.009
position:	11895	128095.88	0.060	-0.030	-0.071	0.060	-0.030	-0.071
position:	11896	128106.98	0.042	0.012	0.005	0.042	0.012	0.005
position:	11897	128117.79	0.053	-0.007	-0.083	0.053	-0.007	-0.083
position:	11898	128128.38	0.029	0.002	-0.003	0.029	0.002	-0.003
position:	11899	128138.89	0.027	-0.026	0.009	0.027	-0.026	0.009
position:	11900	128149.67	0.033	-0.047	0.022	0.033	-0.047	0.022
position:	11901	128160.48	0.052	-0.049	0.040	0.052	-0.049	0.040
position:	11902	128171.18	0.060	-0.022	-0.065	0.060	-0.022	-0.065
position:	11903	128182.17	0.023	-0.007	0.017	0.023	-0.007	0.017
position:	11904	128193.57	0.012	-0.008	-0.022	0.012	-0.008	-0.022
position:	11905	128204.86	0.060	-0.002	0.037	0.060	-0.002	0.037
position:	11906	128216.26	0.063	-0.017	-0.026	0.063	-0.017	-0.026
position:	11907	128227.57	0.053	-0.035	-0.008	0.053	-0.035	-0.008
position:	11908	128238.95	-0.002	0.009	0.029	-0.002	0.009	0.029
position:	11909	128250.26	0.035	-0.020	-0.064	0.035	-0.020	-0.064
position:	11910	128261.55	0.061	-0.015	-0.015	0.061	-0.015	-0.015
position:	11911	128272.86	0.013	0.040	0.010	0.013	0.040	0.010
position:	11912	128283.96	0.045	-0.014	-0.086	0.045	-0.014	-0.086
position:	11913	128294.76	0.045	-0.018	0.011	0.045	-0.018	0.011
position:	11914	128305.56	0.036	-0.021	-0.043	0.036	-0.021	-0.043
position:	11915	128316.26	0.039	0.005	0.051	0.039	0.005	0.051
position:	11916	128327.04	0.052	-0.032	0.004	0.052	-0.032	0.004
position:	11917	128337.35	0.044	0.037	-0.021	0.044	0.037	-0.021
position:	11918	128347.74	0.007	-0.061	-0.033	0.007	-0.061	-0.033
position:	11919	128358.14	0.051	-0.049	-0.030	0.051	-0.049	-0.030
position:	11920	128368.84	0.014	0.002	-0.025	0.014	0.002	-0.025
position:	11921	128379.53	0.016	-0.004	-0.014	0.016	-0.004	-0.014
position:	11922	128389.84	0.045	-0.011	-0.002	0.045	-0.011	-0.002
position:	11923	128400.24	0.006	0.004	-0.100	0.006	0.004	-0.100
position:	11924	128410.83	0.018	-0.022	0.020	0.018	-0.022	0.020
position:	11925	128421.49	0.007	-0.002	0.004	0.007	-0.002	0.004
position:	11926	128432.03	0.022	-0.030	0.006	0.022	-0.030	0.006
position:	11927	128442.49	0.017	0.012	-0.097	0.017	0.012	-0.097
position:	11928	128452.93	0.042	-0.005	0.002	0.042	-0.005	0.002
position:	11929	128463.72	0.064	-0.004	0.021	0.064	-0.004	0.021
position:	11930	128474.83	0.065	0.004	0.021	0.065	0.004	0.021
position:	11931	128485.93	0.073	-0.080	0.018	0.073	-0.080	0.018
position:	11932	128497.22	0.046	-0.006	0.031	0.046	-0.006	0.031
position:	11933	128508.71	0.063	-0.054	-0.021	0.063	-0.054	-0.021
position:	11934	128520.01	0.075	-0.014	-0.033	0.075	-0.014	-0.033
position:	11935	128531.31	0.078	-0.052	0.040	0.078	-0.052	0.040
position:	11936	128542.42	0.041	-0.062	0.036	0.041	-0.062	0.036
position:	11937	128553.31	0.035	-0.060	0.033	0.035	-0.060	0.033
position:	11938	128564.21	-0.015	-0.041	0.041	-0.015	-0.041	0.041
position:	11939	128574.71	0.025	-0.057	-0.074	0.025	-0.057	-0.074
position:	11940	128585.31	-0.019	-0.028	0.004	-0.019	-0.028	0.004
position:	11941	128595.90	0.014	0.004	-0.060	0.014	0.004	-0.060
position:	11942	128606.61	-0.014	-0.010	0.010	-0.014	-0.010	0.010
position:	11943	128617.49	0.003	-0.012	-0.003	0.003	-0.012	-0.003
position:	11944	128628.46	0.010	-0.048	0.040	0.010	-0.048	0.040
position:	11945	128639.30	-0.020	0.026	-0.016	-0.020	0.026	-0.016
position:	11946	128650.10	-0.006	-0.011	0.019	-0.006	-0.011	0.019

position:	11947	128660.98	0.008	0.034	-0.001	0.008	0.034	-0.001
position:	11948	128671.79	-0.011	0.010	-0.096	-0.011	0.010	-0.096
position:	11949	128682.58	0.051	0.006	-0.037	0.051	0.006	-0.037
position:	11950	128692.98	0.010	0.049	-0.040	0.010	0.049	-0.040
position:	11951	128703.29	0.020	0.002	-0.014	0.020	0.002	-0.014
position:	11952	128713.79	0.039	0.023	0.005	0.039	0.023	0.005
position:	11953	128724.28	0.033	0.010	-0.083	0.033	0.010	-0.083
position:	11954	128734.88	0.054	0.027	0.007	0.054	0.026	0.007
position:	11955	128745.58	0.017	0.014	0.017	0.017	0.014	0.017
position:	11956	128756.38	0.053	0.009	0.023	0.053	0.009	0.023
position:	11957	128767.18	-0.021	0.014	-0.117	-0.021	0.014	-0.117
position:	11958	128777.87	-0.029	0.017	-0.019	-0.030	0.017	-0.019
position:	11959	128788.57	-0.035	0.072	-0.042	-0.035	0.072	-0.042
position:	11960	128798.97	-0.009	0.084	-0.070	-0.009	0.084	-0.070
position:	11961	128809.37	-0.035	0.119	-0.097	-0.035	0.119	-0.097
position:	11962	128819.12	-0.083	0.043	-0.166	-0.083	0.043	-0.166
position:	11963	129070.73	-0.087	0.031	-0.098	-0.087	0.031	-0.098
position:	11964	129085.33	-0.138	0.035	-0.121	-0.138	0.035	-0.121
position:	11965	129100.73	-0.128	0.003	-0.097	-0.128	0.003	-0.097
position:	11966	129116.01	-0.146	0.036	-0.011	-0.147	0.036	-0.011
position:	11967	129131.21	-0.190	-0.025	-0.025	-0.190	-0.025	-0.025
position:	11968	129145.92	-0.168	-0.002	-0.022	-0.169	-0.002	-0.022
position:	11969	129160.71	-0.186	-0.002	0.019	-0.186	-0.002	0.019
position:	11970	129175.43	-0.204	0.045	0.011	-0.204	0.045	0.011
position:	11971	129190.30	-0.139	0.016	-0.037	-0.139	0.016	-0.037
position:	11972	129205.60	-0.207	0.013	-0.081	-0.207	0.013	-0.081
position:	11973	129220.10	-0.203	-0.021	-0.075	-0.203	-0.021	-0.075
position:	11974	129234.60	-0.227	0.027	-0.035	-0.227	0.027	-0.035
position:	11975	129249.30	-0.187	0.029	0.005	-0.187	0.029	0.005
position:	11976	129263.99	-0.240	0.033	-0.010	-0.240	0.033	-0.010
position:	11977	129278.89	-0.193	-0.013	-0.016	-0.193	-0.013	-0.016
position:	11978	129293.70	-0.190	-0.028	0.040	-0.190	-0.028	0.040
position:	11979	129308.39	-0.196	0.017	0.052	-0.196	0.017	0.052
position:	11980	129322.88	-0.144	0.005	0.039	-0.144	0.005	0.039
position:	11981	129337.19	-0.195	-0.025	0.008	-0.195	-0.025	0.008
position:	11982	129351.69	-0.192	-0.029	0.031	-0.192	-0.029	0.031
position:	11983	129365.99	-0.166	0.020	0.063	-0.167	0.020	0.063
position:	11984	129380.49	-0.255	0.004	0.055	-0.255	0.004	0.055
position:	11985	129394.37	-0.208	-0.038	0.091	-0.208	-0.038	0.091
position:	11986	129408.07	-0.178	0.017	0.066	-0.178	0.017	0.066
position:	11987	129421.56	-0.168	-0.010	0.069	-0.168	-0.010	0.069
position:	11988	129435.17	-0.225	0.036	0.056	-0.225	0.036	0.056
position:	11989	129448.97	-0.175	-0.035	0.047	-0.175	-0.035	0.047
position:	11990	129462.89	-0.219	-0.021	-0.033	-0.219	-0.021	-0.033
position:	11991	129476.95	-0.160	0.003	0.024	-0.160	0.003	0.024
position:	11992	129490.96	-0.239	-0.010	0.063	-0.239	-0.010	0.063
position:	11993	129504.66	-0.203	-0.010	-0.021	-0.203	-0.010	-0.021
position:	11994	129518.06	-0.210	0.007	-0.059	-0.210	0.007	-0.059
position:	11995	129531.55	-0.182	-0.012	-0.085	-0.182	-0.012	-0.085
position:	11996	129545.25	-0.197	0.025	0.055	-0.197	0.025	0.055
position:	11997	129559.35	-0.181	-0.053	0.030	-0.181	-0.053	0.030
position:	11998	129573.34	-0.199	0.019	0.018	-0.199	0.019	0.018
position:	11999	129587.48	-0.204	-0.043	-0.064	-0.204	-0.043	-0.064
position:	12000	129601.54	-0.154	-0.002	0.003	-0.154	-0.002	0.003
position:	12001	129615.64	-0.188	-0.012	0.033	-0.188	-0.012	0.033
position:	12002	129629.73	-0.173	-0.001	-0.051	-0.173	-0.001	-0.051
position:	12003	129643.63	-0.212	-0.021	-0.068	-0.212	-0.021	-0.068
position:	12004	129657.64	-0.202	-0.025	0.099	-0.202	-0.025	0.099
position:	12005	129671.83	-0.240	0.000	-0.015	-0.240	0.000	-0.015
position:	12006	129685.93	-0.192	0.046	0.065	-0.192	0.046	0.065
position:	12007	129699.93	-0.194	-0.018	-0.001	-0.194	-0.018	-0.001
position:	12008	129714.12	-0.155	-0.042	-0.065	-0.155	-0.042	-0.065
position:	12009	129728.82	-0.189	-0.014	0.005	-0.189	-0.014	0.005
position:	12010	129743.51	-0.208	-0.019	-0.092	-0.208	-0.019	-0.092
position:	12011	129757.61	-0.170	0.073	-0.002	-0.170	0.073	-0.002
position:	12012	129771.62	-0.185	-0.021	-0.012	-0.185	-0.021	-0.012
position:	12013	129785.41	-0.190	-0.027	0.043	-0.190	-0.027	0.043
position:	12014	129799.01	-0.140	-0.009	0.013	-0.140	-0.009	0.013
position:	12015	129812.80	-0.150	-0.003	0.021	-0.151	-0.003	0.021
position:	12016	129826.81	-0.169	-0.042	-0.086	-0.169	-0.042	-0.086
position:	12017	129840.91	-0.174	-0.011	0.010	-0.174	-0.011	0.010
position:	12018	129855.11	-0.135	0.002	0.001	-0.135	0.002	0.001
position:	12019	129869.30	-0.132	0.016	-0.007	-0.132	0.016	-0.007
position:	12020	129883.29	-0.150	-0.024	0.007	-0.150	-0.024	0.007
position:	12021	129897.20	-0.193	0.007	-0.072	-0.193	0.007	-0.072
position:	12022	129911.30	-0.160	-0.013	0.055	-0.160	-0.013	0.055
position:	12023	129925.28	-0.176	-0.010	0.046	-0.176	-0.010	0.046
position:	12024	129938.98	-0.171	-0.047	-0.009	-0.171	-0.047	-0.009
position:	12025	129952.69	-0.202	0.010	-0.004	-0.202	0.010	-0.004
position:	12026	129966.57	-0.167	0.024	0.012	-0.167	0.024	0.012
position:	12027	129980.52	-0.193	0.004	0.074	-0.193	0.004	0.074
position:	12028	129994.68	-0.168	0.009	0.011	-0.168	0.009	0.011
position:	12029	130008.78	-0.175	0.003	0.017	-0.175	0.003	0.017
position:	12030	130022.57	-0.193	-0.017	-0.008	-0.193	-0.017	-0.008
position:	12031	130036.37	-0.147	-0.006	-0.006	-0.147	-0.006	-0.006
position:	12032	130050.56	-0.183	-0.013	0.028	-0.183	-0.013	0.028
position:	12033	130064.57	-0.114	-0.029	-0.044	-0.115	-0.029	-0.044
position:	12034	130078.68	-0.108	-0.010	-0.029	-0.109	-0.010	-0.029
position:	12035	130092.76	-0.173	0.048	0.067	-0.173	0.048	0.067
position:	12036	130106.96	-0.144	-0.006	-0.020	-0.144	-0.006	-0.020
position:	12037	130121.05	-0.190	-0.018	-0.039	-0.190	-0.018	-0.039
position:	12038	130135.36	-0.161	-0.019	0.030	-0.161	-0.019	0.030

position:	12039	130149.75	-0.147	-0.035	0.032	-0.148	-0.035	0.032
position:	12040	130164.04	-0.177	0.004	0.047	-0.177	0.004	0.047
position:	12041	130178.25	-0.103	0.002	-0.013	-0.103	0.002	-0.013
position:	12042	130192.84	-0.103	0.022	0.050	-0.103	0.022	0.050
position:	12043	130207.52	-0.134	-0.013	0.068	-0.134	-0.013	0.068
position:	12044	130222.04	-0.143	-0.003	0.058	-0.143	-0.003	0.058
position:	12045	130236.84	-0.056	-0.012	0.033	-0.056	-0.012	0.033
position:	12046	130252.04	-0.111	0.010	-0.009	-0.111	0.010	-0.009
position:	12047	130267.03	-0.043	-0.037	0.046	-0.043	-0.037	0.046
position:	12048	130281.93	-0.069	-0.035	0.064	-0.069	-0.035	0.064
position:	12049	130510.79	0.020	0.004	-0.013	0.020	0.004	-0.013
position:	12050	130522.59	0.039	0.012	-0.008	0.039	0.012	-0.008
position:	12051	130534.29	0.034	-0.016	-0.019	0.034	-0.016	-0.019
position:	12052	130545.99	0.008	-0.013	0.053	0.008	-0.013	0.053
position:	12053	130557.69	0.049	-0.021	0.045	0.049	-0.021	0.045
position:	12054	130569.29	0.012	0.018	0.054	0.012	0.018	0.054
position:	12055	130580.79	0.008	-0.019	0.030	0.008	-0.019	0.030
position:	12056	130592.19	-0.005	-0.018	0.056	-0.005	-0.018	0.056
position:	12057	130603.58	0.011	0.004	0.064	0.011	0.004	0.064
position:	12058	130614.87	-0.042	0.006	0.037	-0.042	0.006	0.037
position:	12059	130625.98	-0.014	0.008	0.022	-0.014	0.008	0.022
position:	12060	130637.08	0.014	0.005	0.030	0.014	0.005	0.030
position:	12061	130647.87	0.015	-0.027	0.041	0.015	-0.027	0.041
position:	12062	130658.77	-0.019	0.019	0.042	-0.019	0.019	0.042
position:	12063	130669.76	-0.026	0.023	-0.027	-0.026	0.023	-0.027
position:	12064	130680.77	-0.037	-0.005	0.000	-0.037	-0.005	0.000
position:	12065	130691.56	-0.007	0.009	0.071	-0.007	0.009	0.071
position:	12066	130702.37	-0.024	-0.016	0.039	-0.024	-0.016	0.039
position:	12067	130713.07	0.016	0.034	-0.061	0.016	0.034	-0.061
position:	12068	130723.66	0.003	-0.007	0.038	0.003	-0.007	0.038
position:	12069	130734.26	-0.014	-0.002	0.016	-0.014	-0.002	0.016
position:	12070	130744.96	0.006	0.001	0.023	0.006	0.001	0.023
position:	12071	130755.75	-0.020	0.003	0.037	-0.020	0.003	0.037
position:	12072	130766.55	-0.022	0.002	0.025	-0.022	0.002	0.025
position:	12073	130777.25	-0.024	0.005	0.032	-0.024	0.005	0.032
position:	12074	130787.95	-0.025	0.027	-0.056	-0.025	0.027	-0.056
position:	12075	130798.55	-0.018	0.018	0.028	-0.018	0.018	0.028
position:	12076	130809.25	-0.026	-0.014	0.035	-0.026	-0.014	0.035
position:	12077	130819.95	-0.035	0.013	0.020	-0.035	0.013	0.020
position:	12078	130830.64	-0.029	0.025	-0.039	-0.029	0.025	-0.039
position:	12079	130841.34	-0.049	-0.011	0.053	-0.049	-0.011	0.053
position:	12080	130851.94	-0.007	0.000	0.083	-0.007	0.000	0.083
position:	12081	130862.53	-0.012	-0.004	0.018	-0.012	-0.004	0.018
position:	12082	130873.04	-0.014	0.003	0.014	-0.014	0.003	0.014
position:	12083	130883.54	-0.033	-0.009	0.040	-0.033	-0.009	0.040
position:	12084	130894.03	-0.045	0.022	0.059	-0.045	0.022	0.059
position:	12085	130904.63	-0.006	0.007	0.052	-0.006	0.007	0.052
position:	12086	130915.14	-0.036	0.003	0.044	-0.036	0.003	0.044
position:	12087	130925.62	-0.048	-0.008	0.014	-0.048	-0.008	0.014
position:	12088	130936.32	-0.028	0.001	0.040	-0.028	0.001	0.040
position:	12089	130947.33	-0.037	0.013	0.067	-0.037	0.013	0.067
position:	12090	130958.24	-0.017	0.002	-0.042	-0.017	0.002	-0.042
position:	12091	130969.32	-0.029	-0.028	0.105	-0.029	-0.028	0.105
position:	12092	130980.42	0.004	-0.009	0.056	0.004	-0.009	0.056
position:	12093	130991.32	-0.010	0.000	0.038	-0.010	0.000	0.038
position:	12094	131001.91	-0.029	0.016	0.043	-0.029	0.016	0.043
position:	12095	131012.62	-0.047	0.011	0.055	-0.047	0.011	0.055
position:	12096	131023.32	-0.051	0.011	-0.011	-0.051	0.011	-0.011
position:	12097	131034.11	-0.032	-0.014	-0.007	-0.032	-0.014	-0.007
position:	12098	131044.92	-0.009	-0.009	0.048	-0.009	-0.009	0.048
position:	12099	131055.71	-0.018	0.025	0.066	-0.018	0.025	0.066
position:	12100	131066.20	-0.024	0.008	0.058	-0.024	0.008	0.058
position:	12101	131077.01	-0.049	0.006	0.060	-0.049	0.006	0.060
position:	12102	131087.70	-0.050	0.044	-0.020	-0.050	0.044	-0.020
position:	12103	131097.90	-0.012	-0.020	-0.037	-0.012	-0.020	-0.037
position:	12104	131108.19	-0.031	-0.013	0.094	-0.031	-0.013	0.094
position:	12105	131118.39	-0.044	0.030	0.080	-0.044	0.030	0.080
position:	12106	131129.09	-0.034	0.003	-0.021	-0.034	0.003	-0.021
position:	12107	131139.40	-0.044	0.008	0.044	-0.044	0.008	0.044
position:	12108	131149.80	-0.047	0.019	0.037	-0.047	0.019	0.037
position:	12109	131160.08	-0.034	0.012	-0.040	-0.034	0.012	-0.040
position:	12110	131170.39	-0.082	0.044	0.045	-0.082	0.044	0.045
position:	12111	131180.79	-0.075	0.004	0.061	-0.075	0.004	0.061
position:	12112	131191.39	-0.062	-0.027	0.052	-0.062	-0.027	0.052
position:	12113	131201.98	-0.027	0.028	-0.017	-0.027	0.028	-0.017
position:	12114	131212.78	-0.067	0.017	-0.072	-0.067	0.017	-0.072
position:	12115	131223.47	-0.066	0.028	-0.036	-0.066	0.028	-0.036
position:	12116	131234.28	-0.054	0.041	-0.017	-0.054	0.041	-0.017
position:	12117	131245.07	-0.050	0.023	-0.004	-0.050	0.023	-0.004
position:	12118	131256.38	-0.044	0.018	-0.006	-0.044	0.018	-0.006
position:	12119	131267.48	-0.056	0.025	-0.007	-0.056	0.025	-0.007
position:	12120	131278.47	-0.046	0.015	0.018	-0.046	0.015	0.018
position:	12121	131289.48	-0.035	-0.007	0.037	-0.035	-0.007	0.037
position:	12122	131300.28	-0.023	0.000	0.016	-0.023	0.000	0.016
position:	12123	131311.27	-0.033	0.034	-0.008	-0.033	0.034	-0.008
position:	12124	131322.26	-0.030	0.024	0.016	-0.030	0.024	0.016
position:	12125	131333.37	-0.038	0.040	-0.016	-0.038	0.040	-0.016
position:	12126	131344.27	-0.023	0.021	-0.014	-0.023	0.021	-0.014
position:	12127	131355.06	-0.012	0.019	-0.071	-0.012	0.019	-0.071
position:	12128	131365.86	-0.017	-0.009	0.011	-0.017	-0.009	0.011
position:	12129	131376.75	-0.001	0.028	0.016	-0.001	0.028	0.016
position:	12130	131387.55	-0.012	0.004	-0.009	-0.012	0.004	-0.009

position:	12131	131398.25	-0.022	0.025	0.025	-0.022	0.025	0.025
position:	12132	131408.95	0.030	0.032	-0.048	0.030	0.032	-0.048
position:	12133	131420.05	-0.015	0.042	-0.084	-0.015	0.042	-0.084
position:	12134	131430.95	0.026	0.011	-0.037	0.026	0.011	-0.037
position:	12135	131441.84	0.031	0.030	0.018	0.031	0.030	0.018

Average position offset:

East: 0.000 m
North: 0.000 m
Alt: 0.000 m

Position offset RMS:

East: 0.102 m
North: 0.035 m
Alt: 0.049 m

Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	11444	120999.22	-0.1463	0.2062	-0.2157	-0.0080	-0.0058	-0.0032
angle:	11445	121015.74	-0.1452	0.2103	-0.2162	-0.0069	-0.0016	-0.0038
angle:	11446	121032.22	-0.1453	0.2163	-0.2161	-0.0070	0.0043	-0.0037
angle:	11447	121048.62	-0.1446	0.2152	-0.2153	-0.0063	0.0032	-0.0029
angle:	11448	121064.92	-0.1435	0.2138	-0.2155	-0.0052	0.0018	-0.0031
angle:	11449	121080.62	-0.1436	0.2132	-0.2162	-0.0053	0.0012	-0.0038
angle:	11450	121096.41	-0.1435	0.2119	-0.2157	-0.0052	-0.0001	-0.0033
angle:	11451	121112.71	-0.1437	0.2125	-0.2152	-0.0055	0.0005	-0.0028
angle:	11452	121128.41	-0.1432	0.2110	-0.2150	-0.0049	-0.0010	-0.0026
angle:	11453	121143.91	-0.1437	0.2111	-0.2149	-0.0054	-0.0009	-0.0024
angle:	11454	121159.41	-0.1452	0.2109	-0.2142	-0.0070	-0.0011	-0.0018
angle:	11455	121174.90	-0.1439	0.2080	-0.2140	-0.0056	-0.0040	-0.0016
angle:	11456	121190.80	-0.1443	0.2093	-0.2139	-0.0060	-0.0027	-0.0015
angle:	11457	121206.99	-0.1435	0.2070	-0.2147	-0.0053	-0.0050	-0.0023
angle:	11458	121223.09	-0.1436	0.2075	-0.2185	-0.0054	-0.0045	-0.0061
angle:	11459	121239.09	-0.1419	0.2082	-0.2204	-0.0036	-0.0038	-0.0080
angle:	11460	121255.20	-0.1414	0.2107	-0.2111	-0.0031	-0.0013	0.0013
angle:	11461	121270.98	-0.1417	0.2096	-0.2124	-0.0035	-0.0024	0.0000
angle:	11462	121286.58	-0.1421	0.2084	-0.2143	-0.0038	-0.0036	-0.0019
angle:	11463	121302.28	-0.1421	0.2062	-0.2150	-0.0038	-0.0058	-0.0026
angle:	11464	121317.97	-0.1432	0.2055	-0.2153	-0.0050	-0.0065	-0.0029
angle:	11465	121333.68	-0.1426	0.2042	-0.2164	-0.0043	-0.0078	-0.0040
angle:	11466	121349.50	-0.1428	0.2025	-0.2181	-0.0045	-0.0095	-0.0057
angle:	11467	121365.27	-0.1420	0.2120	-0.2165	-0.0037	0.0000	-0.0040
angle:	11468	121381.18	-0.1423	0.2121	-0.2161	-0.0041	0.0001	-0.0037
angle:	11469	121397.07	-0.1409	0.2110	-0.2155	-0.0026	-0.0010	-0.0030
angle:	11470	121412.97	-0.1425	0.2110	-0.2153	-0.0042	-0.0010	-0.0029
angle:	11471	121428.86	-0.1426	0.2108	-0.2153	-0.0044	-0.0012	-0.0029
angle:	11472	121444.65	-0.1431	0.2107	-0.2152	-0.0048	-0.0013	-0.0028
angle:	11473	121460.66	-0.1426	0.2115	-0.2152	-0.0044	-0.0005	-0.0028
angle:	11474	121476.76	-0.1434	0.2117	-0.2147	-0.0052	-0.0003	-0.0023
angle:	11475	121492.84	-0.1426	0.2121	-0.2158	-0.0044	0.0001	-0.0034
angle:	11476	121508.74	-0.1422	0.2113	-0.2156	-0.0039	-0.0007	-0.0032
angle:	11477	121524.84	-0.1422	0.2119	-0.2156	-0.0040	-0.0001	-0.0032
angle:	11478	121541.04	-0.1425	0.2119	-0.2146	-0.0042	-0.0001	-0.0022
angle:	11479	121557.04	-0.1424	0.2130	-0.2162	-0.0041	0.0010	-0.0037
angle:	11480	121573.14	-0.1422	0.2108	-0.2148	-0.0039	-0.0011	-0.0024
angle:	11481	121589.52	-0.1429	0.2116	-0.2151	-0.0047	-0.0004	-0.0027
angle:	11482	121605.83	-0.1423	0.2109	-0.2159	-0.0041	-0.0011	-0.0035
angle:	11483	121622.02	-0.1427	0.2119	-0.2165	-0.0045	-0.0001	-0.0041
angle:	11484	121638.23	-0.1418	0.2107	-0.2157	-0.0036	-0.0013	-0.0033
angle:	11485	121654.52	-0.1416	0.2112	-0.2157	-0.0033	-0.0008	-0.0033
angle:	11486	121671.03	-0.1419	0.2128	-0.2158	-0.0036	0.0008	-0.0033
angle:	11487	121687.41	-0.1417	0.2116	-0.2160	-0.0034	-0.0004	-0.0036
angle:	11488	121703.82	-0.1420	0.2115	-0.2168	-0.0038	-0.0005	-0.0044
angle:	11489	121720.11	-0.1422	0.2119	-0.2176	-0.0040	-0.0001	-0.0052
angle:	11490	121736.50	-0.1421	0.2118	-0.2176	-0.0039	-0.0002	-0.0052
angle:	11491	121752.81	-0.1410	0.2117	-0.2177	-0.0027	-0.0002	-0.0053
angle:	11492	121769.00	-0.1426	0.2121	-0.2175	-0.0044	0.0001	-0.0051
angle:	11493	121784.90	-0.1418	0.2107	-0.2162	-0.0035	-0.0013	-0.0038
angle:	11494	121800.70	-0.1423	0.2106	-0.2157	-0.0040	-0.0014	-0.0033
angle:	11495	121816.40	-0.1416	0.2113	-0.2155	-0.0033	-0.0007	-0.0031
angle:	11496	121832.09	-0.1418	0.2108	-0.2155	-0.0035	-0.0012	-0.0030
angle:	11497	121847.79	-0.1419	0.2103	-0.2146	-0.0036	-0.0017	-0.0022
angle:	11498	121863.59	-0.1421	0.2125	-0.2142	-0.0038	0.0005	-0.0018
angle:	11499	121879.49	-0.1414	0.2104	-0.2139	-0.0031	-0.0016	-0.0015
angle:	11500	121895.39	-0.1416	0.2117	-0.2144	-0.0033	-0.0003	-0.0020
angle:	11501	121911.17	-0.1412	0.2110	-0.2138	-0.0029	-0.0010	-0.0014
angle:	11502	121927.27	-0.1410	0.2117	-0.2141	-0.0028	-0.0003	-0.0017
angle:	11503	121943.67	-0.1416	0.2111	-0.2142	-0.0033	-0.0009	-0.0018
angle:	11504	121959.87	-0.1411	0.2110	-0.2150	-0.0029	-0.0009	-0.0026
angle:	11505	121975.97	-0.1409	0.2118	-0.2152	-0.0026	-0.0002	-0.0028
angle:	11506	121992.07	-0.1409	0.2104	-0.2145	-0.0027	-0.0016	-0.0021
angle:	11507	122008.06	-0.1405	0.2108	-0.2133	-0.0023	-0.0012	-0.0009
angle:	11508	122024.06	-0.1414	0.2102	-0.2119	-0.0031	-0.0018	0.0005
angle:	11509	122040.60	-0.1416	0.2104	-0.2124	-0.0033	-0.0016	0.0000
angle:	11510	122057.06	-0.1409	0.2109	-0.2120	-0.0027	-0.0011	0.0005
angle:	11511	122073.49	-0.1412	0.2107	-0.2119	-0.0030	-0.0013	0.0005
angle:	11512	122089.51	-0.1408	0.2095	-0.2134	-0.0025	-0.0025	-0.0010
angle:	11513	122105.75	-0.1412	0.2113	-0.2137	-0.0029	-0.0007	-0.0013
angle:	11514	122122.24	-0.1413	0.2107	-0.2134	-0.0031	-0.0013	-0.0010
angle:	11515	122138.55	-0.1397	0.2117	-0.2142	-0.0014	-0.0003	-0.0018

angle:	11516	122154.84	-0.1401	0.2114	-0.2148	-0.0019	-0.0006	-0.0024
angle:	11517	122171.34	-0.1408	0.2113	-0.2150	-0.0025	-0.0007	-0.0026
angle:	11518	122187.74	-0.1405	0.2099	-0.2139	-0.0023	-0.0021	-0.0015
angle:	11519	122204.14	-0.1400	0.2110	-0.2142	-0.0017	-0.0010	-0.0018
angle:	11520	122219.83	-0.1408	0.2125	-0.2144	-0.0025	0.0005	-0.0020
angle:	11521	122235.43	-0.1402	0.2115	-0.2143	-0.0019	-0.0005	-0.0018
angle:	11522	122251.22	-0.1399	0.2119	-0.2143	-0.0017	-0.0001	-0.0019
angle:	11523	122266.93	-0.1405	0.2113	-0.2154	-0.0022	-0.0007	-0.0030
angle:	11524	122282.34	-0.1393	0.2105	-0.2152	-0.0010	-0.0015	-0.0028
angle:	11525	122297.52	-0.1393	0.2110	-0.2138	-0.0011	-0.0010	-0.0014
angle:	11526	122312.92	-0.1395	0.2107	-0.2140	-0.0012	-0.0013	-0.0016
angle:	11527	122329.11	-0.1395	0.2119	-0.2124	-0.0012	-0.0001	0.0001
angle:	11528	122345.12	-0.1399	0.2116	-0.2114	-0.0017	-0.0004	0.0010
angle:	11529	122361.11	-0.1396	0.2120	-0.2115	-0.0014	0.0000	0.0009
angle:	11530	122559.17	-0.1423	0.2098	-0.1887	-0.0040	-0.0022	0.0237
angle:	11531	122570.51	-0.1409	0.2080	-0.1893	-0.0026	-0.0040	0.0231
angle:	11532	122581.68	-0.1423	0.2069	-0.1901	-0.0040	-0.0051	0.0223
angle:	11533	122593.27	-0.1422	0.2084	-0.1913	-0.0040	-0.0036	0.0211
angle:	11534	122604.87	-0.1419	0.2091	-0.1924	-0.0037	-0.0029	0.0200
angle:	11535	122616.18	-0.1418	0.2084	-0.1942	-0.0035	-0.0036	0.0182
angle:	11536	122627.17	-0.1406	0.2078	-0.1936	-0.0024	-0.0042	0.0188
angle:	11537	122638.37	-0.1417	0.2083	-0.1945	-0.0035	-0.0037	0.0179
angle:	11538	122649.56	-0.1406	0.2088	-0.1950	-0.0023	-0.0032	0.0174
angle:	11539	122660.56	-0.1417	0.2095	-0.1948	-0.0034	-0.0025	0.0176
angle:	11540	122671.36	-0.1406	0.2095	-0.1944	-0.0024	-0.0024	0.0180
angle:	11541	122682.26	-0.1408	0.2097	-0.1950	-0.0025	-0.0023	0.0174
angle:	11542	122693.16	-0.1401	0.2085	-0.1952	-0.0019	-0.0035	0.0172
angle:	11543	122704.16	-0.1398	0.2089	-0.1948	-0.0015	-0.0031	0.0176
angle:	11544	122715.35	-0.1413	0.2101	-0.1957	-0.0031	-0.0019	0.0168
angle:	11545	122726.64	-0.1402	0.2090	-0.1959	-0.0020	-0.0030	0.0165
angle:	11546	122737.75	-0.1397	0.2088	-0.1942	-0.0015	-0.0032	0.0182
angle:	11547	122748.74	-0.1399	0.2094	-0.1954	-0.0016	-0.0026	0.0171
angle:	11548	122759.75	-0.1401	0.2086	-0.1964	-0.0018	-0.0034	0.0160
angle:	11549	122770.95	-0.1404	0.2081	-0.1962	-0.0022	-0.0039	0.0162
angle:	11550	122782.03	-0.1406	0.2082	-0.1962	-0.0024	-0.0038	0.0163
angle:	11551	122793.14	-0.1401	0.2077	-0.1980	-0.0018	-0.0043	0.0144
angle:	11552	122804.13	-0.1402	0.2090	-0.1977	-0.0020	-0.0030	0.0147
angle:	11553	122814.94	-0.1399	0.2076	-0.1978	-0.0016	-0.0044	0.0147
angle:	11554	122825.73	-0.1400	0.2087	-0.1980	-0.0017	-0.0032	0.0145
angle:	11555	122836.72	-0.1394	0.2080	-0.1984	-0.0012	-0.0040	0.0140
angle:	11556	122847.73	-0.1396	0.2079	-0.1996	-0.0014	-0.0041	0.0128
angle:	11557	122858.43	-0.1401	0.2087	-0.1996	-0.0018	-0.0033	0.0128
angle:	11558	122868.92	-0.1401	0.2092	-0.1997	-0.0019	-0.0028	0.0127
angle:	11559	122879.42	-0.1393	0.2082	-0.1993	-0.0011	-0.0038	0.0131
angle:	11560	122890.12	-0.1396	0.2081	-0.1995	-0.0013	-0.0039	0.0129
angle:	11561	122900.92	-0.1398	0.2096	-0.1994	-0.0016	-0.0024	0.0130
angle:	11562	122911.62	-0.1391	0.2087	-0.1993	-0.0008	-0.0033	0.0131
angle:	11563	122922.11	-0.1402	0.2101	-0.2003	-0.0020	-0.0019	0.0121
angle:	11564	122932.81	-0.1396	0.2084	-0.2000	-0.0013	-0.0036	0.0124
angle:	11565	122943.41	-0.1402	0.2091	-0.1995	-0.0020	-0.0029	0.0129
angle:	11566	122954.11	-0.1398	0.2086	-0.1988	-0.0015	-0.0034	0.0136
angle:	11567	122964.61	-0.1399	0.2105	-0.2004	-0.0016	-0.0014	0.0120
angle:	11568	122975.11	-0.1404	0.2097	-0.2005	-0.0021	-0.0023	0.0119
angle:	11569	122985.82	-0.1398	0.2082	-0.2012	-0.0016	-0.0038	0.0112
angle:	11570	122996.31	-0.1397	0.2092	-0.2003	-0.0014	-0.0028	0.0121
angle:	11571	123007.00	-0.1403	0.2087	-0.2019	-0.0020	-0.0033	0.0105
angle:	11572	123017.80	-0.1393	0.2092	-0.2011	-0.0010	-0.0028	0.0113
angle:	11573	123028.50	-0.1401	0.2092	-0.2012	-0.0019	-0.0028	0.0112
angle:	11574	123039.10	-0.1396	0.2081	-0.2011	-0.0013	-0.0039	0.0114
angle:	11575	123049.90	-0.1395	0.2098	-0.2030	-0.0012	-0.0022	0.0094
angle:	11576	123060.69	-0.1402	0.2092	-0.2040	-0.0019	-0.0028	0.0084
angle:	11577	123071.39	-0.1391	0.2086	-0.2044	-0.0009	-0.0034	0.0080
angle:	11578	123081.99	-0.1397	0.2087	-0.2043	-0.0015	-0.0033	0.0081
angle:	11579	123092.79	-0.1396	0.2100	-0.2045	-0.0014	-0.0020	0.0079
angle:	11580	123103.69	-0.1397	0.2089	-0.2046	-0.0015	-0.0031	0.0078
angle:	11581	123114.58	-0.1400	0.2083	-0.2046	-0.0017	-0.0037	0.0078
angle:	11582	123125.29	-0.1404	0.2102	-0.2051	-0.0021	-0.0018	0.0073
angle:	11583	123136.09	-0.1392	0.2093	-0.2061	-0.0009	-0.0027	0.0063
angle:	11584	123146.69	-0.1402	0.2099	-0.2076	-0.0019	-0.0021	0.0048
angle:	11585	123157.29	-0.1403	0.2092	-0.2072	-0.0021	-0.0028	0.0052
angle:	11586	123167.77	-0.1399	0.2091	-0.2073	-0.0016	-0.0029	0.0051
angle:	11587	123178.08	-0.1396	0.2093	-0.2088	-0.0013	-0.0027	0.0037
angle:	11588	123188.67	-0.1392	0.2091	-0.2092	-0.0010	-0.0029	0.0032
angle:	11589	123199.18	-0.1398	0.2097	-0.2097	-0.0015	-0.0023	0.0027
angle:	11590	123209.77	-0.1402	0.2108	-0.2105	-0.0020	-0.0012	0.0019
angle:	11591	123220.53	-0.1405	0.2105	-0.2117	-0.0022	-0.0015	0.0007
angle:	11592	123230.97	-0.1396	0.2091	-0.2128	-0.0014	-0.0029	-0.0004
angle:	11593	123241.36	-0.1396	0.2105	-0.2154	-0.0013	-0.0015	-0.0030
angle:	11594	123251.96	-0.1386	0.2106	-0.2167	-0.0004	-0.0014	-0.0042
angle:	11595	123262.77	-0.1366	0.2114	-0.2200	0.0016	-0.0006	-0.0075
angle:	11596	123273.36	-0.1381	0.2139	-0.2095	0.0001	0.0019	0.0030
angle:	11597	123283.96	-0.1379	0.2139	-0.2103	0.0003	0.0019	0.0021
angle:	11598	123294.66	-0.1383	0.2116	-0.2124	0.0000	-0.0004	0.0000
angle:	11599	123305.26	-0.1375	0.2122	-0.2139	0.0007	0.0002	-0.0014
angle:	11600	123315.86	-0.1363	0.2104	-0.2163	0.0020	-0.0016	-0.0038
angle:	11601	123326.66	-0.1360	0.2101	-0.2195	0.0023	-0.0019	-0.0071
angle:	11602	123337.35	-0.1342	0.2110	-0.2220	0.0041	-0.0010	-0.0096
angle:	11603	123347.96	-0.1362	0.2138	-0.2103	0.0021	0.0018	0.0021
angle:	11604	123358.50	-0.1377	0.2136	-0.2121	0.0005	0.0016	0.0003
angle:	11605	123369.04	-0.1383	0.2121	-0.2140	0.0000	0.0001	-0.0016
angle:	11606	123379.75	-0.1386	0.2111	-0.2162	-0.0003	-0.0009	-0.0038
angle:	11607	123390.45	-0.1387	0.2116	-0.2171	-0.0004	-0.0004	-0.0047

angle:	11608	123400.94	-0.1388	0.2110	-0.2181	-0.0005	-0.0010	-0.0057
angle:	11609	123411.34	-0.1377	0.2101	-0.2193	0.0006	-0.0019	-0.0069
angle:	11610	123421.84	-0.1364	0.2088	-0.2197	0.0019	-0.0032	-0.0073
angle:	11611	123432.44	-0.1375	0.2098	-0.2199	0.0008	-0.0022	-0.0075
angle:	11612	123443.03	-0.1374	0.2105	-0.2223	0.0008	-0.0015	-0.0099
angle:	11613	123453.63	-0.1358	0.2095	-0.2240	0.0024	-0.0025	-0.0116
angle:	11614	123464.33	-0.1344	0.2092	-0.2267	0.0039	-0.0028	-0.0142
angle:	11615	123475.03	-0.1327	0.2085	-0.2287	0.0056	-0.0035	-0.0163
angle:	11616	123715.89	-0.1451	0.2085	-0.2272	-0.0069	-0.0035	-0.0148
angle:	11617	123731.68	-0.1425	0.2088	-0.2276	-0.0042	-0.0032	-0.0152
angle:	11618	123747.28	-0.1415	0.2075	-0.2282	-0.0033	-0.0045	-0.0158
angle:	11619	123762.59	-0.1396	0.2073	-0.2279	-0.0013	-0.0047	-0.0155
angle:	11620	123777.78	-0.1400	0.2116	-0.2190	-0.0017	-0.0004	-0.0065
angle:	11621	123793.18	-0.1397	0.2115	-0.2205	-0.0014	-0.0005	-0.0080
angle:	11622	123808.58	-0.1402	0.2112	-0.2212	-0.0020	-0.0008	-0.0087
angle:	11623	123823.87	-0.1392	0.2099	-0.2210	-0.0009	-0.0021	-0.0086
angle:	11624	123839.08	-0.1382	0.2093	-0.2206	0.0000	-0.0027	-0.0082
angle:	11625	123854.17	-0.1384	0.2103	-0.2200	-0.0001	-0.0017	-0.0076
angle:	11626	123869.17	-0.1389	0.2104	-0.2184	-0.0006	-0.0016	-0.0060
angle:	11627	123884.27	-0.1381	0.2097	-0.2173	0.0001	-0.0023	-0.0049
angle:	11628	123899.48	-0.1400	0.2106	-0.2172	-0.0018	-0.0014	-0.0048
angle:	11629	123914.75	-0.1396	0.2113	-0.2183	-0.0013	-0.0007	-0.0059
angle:	11630	123930.06	-0.1389	0.2109	-0.2173	-0.0006	-0.0011	-0.0049
angle:	11631	123945.25	-0.1391	0.2103	-0.2158	-0.0008	-0.0017	-0.0034
angle:	11632	123960.65	-0.1380	0.2107	-0.2150	0.0002	-0.0013	-0.0026
angle:	11633	123976.05	-0.1382	0.2109	-0.2136	0.0000	-0.0011	-0.0012
angle:	11634	123991.35	-0.1381	0.2114	-0.2129	0.0002	-0.0006	-0.0004
angle:	11635	124006.54	-0.1378	0.2108	-0.2141	0.0004	-0.0012	-0.0017
angle:	11636	124021.65	-0.1381	0.2105	-0.2133	0.0001	-0.0015	-0.0009
angle:	11637	124036.93	-0.1373	0.2115	-0.2137	0.0010	-0.0005	-0.0013
angle:	11638	124052.33	-0.1370	0.2114	-0.2133	0.0012	-0.0006	-0.0009
angle:	11639	124067.53	-0.1368	0.2128	-0.2133	0.0014	0.0008	-0.0009
angle:	11640	124082.92	-0.1360	0.2115	-0.2106	0.0023	-0.0005	0.0018
angle:	11641	124098.23	-0.1370	0.2115	-0.2101	0.0012	-0.0005	0.0024
angle:	11642	124113.33	-0.1377	0.2113	-0.2100	0.0006	-0.0006	0.0024
angle:	11643	124128.32	-0.1372	0.2107	-0.2107	0.0010	-0.0013	0.0017
angle:	11644	124143.52	-0.1370	0.2109	-0.2107	0.0013	-0.0011	0.0018
angle:	11645	124158.91	-0.1375	0.2102	-0.2106	0.0008	-0.0018	0.0018
angle:	11646	124174.22	-0.1373	0.2115	-0.2119	0.0010	-0.0005	0.0005
angle:	11647	124189.71	-0.1381	0.2115	-0.2125	0.0002	-0.0005	-0.0001
angle:	11648	124205.11	-0.1370	0.2112	-0.2126	0.0013	-0.0008	-0.0002
angle:	11649	124220.91	-0.1374	0.2120	-0.2128	0.0008	0.0000	-0.0004
angle:	11650	124236.60	-0.1372	0.2113	-0.2134	0.0010	-0.0007	-0.0010
angle:	11651	124251.91	-0.1376	0.2115	-0.2131	0.0006	-0.0005	-0.0007
angle:	11652	124267.60	-0.1377	0.2122	-0.2138	0.0006	0.0002	-0.0014
angle:	11653	124283.20	-0.1386	0.2108	-0.2127	-0.0003	-0.0012	-0.0003
angle:	11654	124298.70	-0.1380	0.2118	-0.2127	0.0003	-0.0002	-0.0003
angle:	11655	124314.19	-0.1375	0.2115	-0.2132	0.0007	-0.0005	-0.0008
angle:	11656	124329.79	-0.1373	0.2111	-0.2130	0.0009	-0.0009	-0.0006
angle:	11657	124344.98	-0.1381	0.2114	-0.2135	0.0001	-0.0006	-0.0011
angle:	11658	124360.52	-0.1380	0.2115	-0.2142	0.0003	-0.0005	-0.0018
angle:	11659	124375.39	-0.1378	0.2115	-0.2139	0.0004	-0.0005	-0.0015
angle:	11660	124390.18	-0.1367	0.2112	-0.2139	0.0016	-0.0008	-0.0015
angle:	11661	124404.87	-0.1373	0.2126	-0.2138	0.0009	0.0006	-0.0014
angle:	11662	124419.49	-0.1373	0.2115	-0.2147	0.0009	-0.0005	-0.0023
angle:	11663	124434.07	-0.1374	0.2120	-0.2145	0.0009	0.0000	-0.0021
angle:	11664	124448.77	-0.1376	0.2112	-0.2146	0.0006	-0.0008	-0.0022
angle:	11665	124463.78	-0.1377	0.2108	-0.2151	0.0006	-0.0012	-0.0027
angle:	11666	124478.67	-0.1368	0.2109	-0.2162	0.0014	-0.0011	-0.0038
angle:	11667	124493.87	-0.1385	0.2112	-0.2163	-0.0003	-0.0008	-0.0038
angle:	11668	124509.06	-0.1369	0.2120	-0.2169	0.0014	0.0001	-0.0045
angle:	11669	124524.35	-0.1375	0.2121	-0.2173	0.0007	0.0001	-0.0049
angle:	11670	124539.66	-0.1374	0.2108	-0.2178	0.0009	-0.0012	-0.0054
angle:	11671	124555.15	-0.1369	0.2107	-0.2176	0.0013	-0.0013	-0.0052
angle:	11672	124570.36	-0.1370	0.2127	-0.2165	0.0013	0.0008	-0.0041
angle:	11673	124585.35	-0.1374	0.2110	-0.2161	0.0009	-0.0010	-0.0037
angle:	11674	124600.51	-0.1368	0.2124	-0.2163	0.0014	0.0004	-0.0039
angle:	11675	124615.50	-0.1369	0.2118	-0.2163	0.0014	-0.0002	-0.0039
angle:	11676	124630.43	-0.1371	0.2131	-0.2168	0.0011	-0.0011	-0.0044
angle:	11677	124645.50	-0.1373	0.2121	-0.2167	0.0010	0.0001	-0.0043
angle:	11678	124660.64	-0.1369	0.2119	-0.2159	0.0013	-0.0001	-0.0035
angle:	11679	124676.13	-0.1380	0.2119	-0.2166	0.0003	-0.0001	-0.0042
angle:	11680	124691.84	-0.1382	0.2119	-0.2168	0.0000	-0.0001	-0.0044
angle:	11681	124707.03	-0.1374	0.2126	-0.2171	0.0008	0.0006	-0.0047
angle:	11682	124722.32	-0.1382	0.2117	-0.2171	0.0001	-0.0003	-0.0047
angle:	11683	124737.72	-0.1372	0.2122	-0.2168	0.0011	0.0002	-0.0044
angle:	11684	124753.49	-0.1373	0.2129	-0.2171	0.0010	0.0009	-0.0047
angle:	11685	124768.83	-0.1374	0.2114	-0.2168	0.0008	-0.0006	-0.0044
angle:	11686	124783.91	-0.1378	0.2128	-0.2172	0.0004	0.0008	-0.0048
angle:	11687	124799.01	-0.1371	0.2118	-0.2169	0.0012	-0.0002	-0.0045
angle:	11688	124814.32	-0.1367	0.2117	-0.2172	0.0016	-0.0003	-0.0048
angle:	11689	124829.50	-0.1379	0.2126	-0.2179	0.0003	0.0006	-0.0055
angle:	11690	124843.90	-0.1379	0.2116	-0.2164	0.0004	-0.0004	-0.0040
angle:	11691	124858.31	-0.1375	0.2123	-0.2175	0.0007	0.0003	-0.0051
angle:	11692	124872.71	-0.1360	0.2116	-0.2167	0.0022	-0.0004	-0.0043
angle:	11693	124887.49	-0.1368	0.2124	-0.2171	0.0014	0.0004	-0.0047
angle:	11694	124902.40	-0.1364	0.2119	-0.2162	0.0018	-0.0001	-0.0038
angle:	11695	124917.29	-0.1366	0.2123	-0.2161	0.0017	0.0003	-0.0037
angle:	11696	124932.30	-0.1362	0.2115	-0.2154	0.0020	-0.0005	-0.0030
angle:	11697	124947.49	-0.1362	0.2123	-0.2152	0.0021	0.0003	-0.0028
angle:	11698	124962.59	-0.1361	0.2121	-0.2149	0.0022	0.0001	-0.0024
angle:	11699	124977.59	-0.1351	0.2135	-0.2145	0.0032	0.0015	-0.0021

angle:	11700	124992.50	-0.1355	0.2130	-0.2144	0.0028	0.0010	-0.0020
angle:	11701	125007.58	-0.1352	0.2139	-0.2141	0.0031	0.0019	-0.0017
angle:	11702	125210.85	-0.1393	0.2099	-0.1839	-0.0010	-0.0021	0.0285
angle:	11703	125222.15	-0.1406	0.2107	-0.1837	-0.0024	-0.0013	0.0287
angle:	11704	125233.55	-0.1382	0.2097	-0.1833	0.0001	-0.0023	0.0291
angle:	11705	125244.94	-0.1391	0.2100	-0.1832	-0.0008	-0.0020	0.0292
angle:	11706	125256.14	-0.1391	0.2104	-0.1836	-0.0008	-0.0016	0.0288
angle:	11707	125267.50	-0.1387	0.2094	-0.1837	-0.0004	-0.0026	0.0287
angle:	11708	125278.74	-0.1387	0.2095	-0.1833	-0.0005	-0.0025	0.0292
angle:	11709	125289.93	-0.1387	0.2096	-0.1840	-0.0005	-0.0024	0.0284
angle:	11710	125301.03	-0.1384	0.2097	-0.1832	-0.0001	-0.0023	0.0292
angle:	11711	125312.02	-0.1382	0.2095	-0.1839	0.0000	-0.0025	0.0285
angle:	11712	125323.13	-0.1383	0.2111	-0.1841	0.0000	-0.0009	0.0283
angle:	11713	125334.33	-0.1379	0.2094	-0.1829	0.0004	-0.0026	0.0296
angle:	11714	125345.43	-0.1382	0.2089	-0.1830	0.0001	-0.0031	0.0294
angle:	11715	125356.42	-0.1384	0.2096	-0.1838	-0.0002	-0.0024	0.0286
angle:	11716	125367.62	-0.1378	0.2087	-0.1836	0.0005	-0.0033	0.0288
angle:	11717	125378.93	-0.1374	0.2101	-0.1840	0.0008	-0.0019	0.0284
angle:	11718	125390.22	-0.1368	0.2101	-0.1836	0.0015	-0.0019	0.0289
angle:	11719	125401.51	-0.1380	0.2093	-0.1839	0.0003	-0.0027	0.0285
angle:	11720	125412.92	-0.1374	0.2096	-0.1841	0.0008	-0.0024	0.0283
angle:	11721	125424.31	-0.1377	0.2090	-0.1843	0.0005	-0.0030	0.0281
angle:	11722	125435.82	-0.1374	0.2094	-0.1847	0.0008	-0.0026	0.0278
angle:	11723	125447.22	-0.1376	0.2100	-0.1855	0.0006	-0.0020	0.0269
angle:	11724	125458.62	-0.1374	0.2098	-0.1863	0.0009	-0.0022	0.0261
angle:	11725	125470.11	-0.1378	0.2084	-0.1872	0.0004	-0.0036	0.0252
angle:	11726	125481.20	-0.1370	0.2091	-0.1880	0.0013	-0.0029	0.0244
angle:	11727	125492.21	-0.1367	0.2099	-0.1879	0.0015	-0.0021	0.0245
angle:	11728	125503.61	-0.1376	0.2111	-0.1897	0.0007	-0.0009	0.0227
angle:	11729	125514.80	-0.1381	0.2108	-0.1903	0.0002	-0.0012	0.0221
angle:	11730	125525.89	-0.1373	0.2100	-0.1902	0.0009	-0.0020	0.0222
angle:	11731	125536.79	-0.1382	0.2104	-0.1917	0.0000	-0.0016	0.0207
angle:	11732	125547.79	-0.1387	0.2099	-0.1913	-0.0005	-0.0021	0.0211
angle:	11733	125558.80	-0.1384	0.2108	-0.1922	-0.0002	-0.0012	0.0202
angle:	11734	125569.79	-0.1378	0.2100	-0.1927	0.0004	-0.0020	0.0197
angle:	11735	125580.78	-0.1392	0.2107	-0.1930	-0.0010	-0.0013	0.0195
angle:	11736	125591.79	-0.1380	0.2108	-0.1942	0.0003	-0.0012	0.0182
angle:	11737	125602.88	-0.1386	0.2094	-0.1940	-0.0003	-0.0026	0.0184
angle:	11738	125613.78	-0.1380	0.2106	-0.1954	0.0003	-0.0014	0.0170
angle:	11739	125624.51	-0.1384	0.2099	-0.1953	-0.0001	-0.0021	0.0171
angle:	11740	125635.08	-0.1383	0.2101	-0.1951	-0.0001	-0.0019	0.0173
angle:	11741	125645.69	-0.1384	0.2091	-0.1962	-0.0002	-0.0029	0.0162
angle:	11742	125656.18	-0.1385	0.2100	-0.1971	-0.0002	-0.0020	0.0153
angle:	11743	125666.68	-0.1380	0.2092	-0.1976	0.0003	-0.0027	0.0148
angle:	11744	125676.98	-0.1392	0.2100	-0.1983	-0.0010	-0.0020	0.0141
angle:	11745	125687.18	-0.1373	0.2093	-0.1991	0.0010	-0.0027	0.0133
angle:	11746	125697.56	-0.1374	0.2099	-0.1999	0.0008	-0.0021	0.0125
angle:	11747	125708.07	-0.1383	0.2102	-0.2012	0.0000	-0.0018	0.0112
angle:	11748	125718.57	-0.1379	0.2100	-0.2018	0.0004	-0.0020	0.0106
angle:	11749	125729.17	-0.1380	0.2101	-0.2029	0.0003	-0.0019	0.0095
angle:	11750	125739.76	-0.1378	0.2097	-0.2035	0.0004	-0.0023	0.0089
angle:	11751	125750.46	-0.1382	0.2095	-0.2046	0.0001	-0.0025	0.0078
angle:	11752	125761.26	-0.1376	0.2104	-0.2045	0.0007	-0.0016	0.0079
angle:	11753	125772.05	-0.1384	0.2106	-0.2063	-0.0001	-0.0014	0.0061
angle:	11754	125783.06	-0.1375	0.2111	-0.2067	0.0007	-0.0009	0.0057
angle:	11755	125794.15	-0.1384	0.2109	-0.2071	-0.0001	-0.0011	0.0053
angle:	11756	125805.16	-0.1379	0.2111	-0.2074	0.0004	-0.0009	0.0050
angle:	11757	125816.16	-0.1380	0.2099	-0.2074	0.0002	-0.0021	0.0050
angle:	11758	125827.05	-0.1377	0.2106	-0.2071	0.0006	-0.0014	0.0053
angle:	11759	125838.05	-0.1380	0.2119	-0.2074	0.0002	-0.0001	0.0050
angle:	11760	125848.95	-0.1380	0.2110	-0.2077	0.0002	-0.0010	0.0048
angle:	11761	125859.74	-0.1372	0.2098	-0.2079	0.0010	-0.0022	0.0045
angle:	11762	125870.44	-0.1386	0.2112	-0.2084	-0.0004	-0.0008	0.0040
angle:	11763	125881.34	-0.1395	0.2109	-0.2084	-0.0012	-0.0011	0.0040
angle:	11764	125892.24	-0.1387	0.2113	-0.2091	-0.0005	-0.0006	0.0033
angle:	11765	125902.93	-0.1382	0.2108	-0.2095	0.0000	-0.0012	0.0029
angle:	11766	125913.74	-0.1383	0.2121	-0.2101	0.0000	0.0001	0.0023
angle:	11767	125924.33	-0.1380	0.2106	-0.2105	0.0003	-0.0013	0.0019
angle:	11768	125935.02	-0.1384	0.2102	-0.2100	-0.0001	-0.0018	0.0024
angle:	11769	125945.83	-0.1377	0.2112	-0.2112	0.0006	-0.0008	0.0012
angle:	11770	125956.73	-0.1378	0.2117	-0.2113	0.0005	-0.0003	0.0011
angle:	11771	125967.82	-0.1372	0.2115	-0.2125	0.0011	-0.0005	-0.0001
angle:	11772	125979.03	-0.1367	0.2119	-0.2136	0.0015	-0.0001	-0.0011
angle:	11773	125989.82	-0.1371	0.2110	-0.2139	0.0012	-0.0010	-0.0014
angle:	11774	126000.43	-0.1366	0.2113	-0.2139	0.0017	-0.0007	-0.0015
angle:	11775	126011.22	-0.1362	0.2113	-0.2131	0.0021	-0.0007	-0.0006
angle:	11776	126022.02	-0.1366	0.2117	-0.2142	0.0017	-0.0003	-0.0018
angle:	11777	126032.81	-0.1368	0.2115	-0.2157	0.0015	-0.0005	-0.0032
angle:	11778	126043.62	-0.1360	0.2124	-0.2162	0.0023	-0.0004	-0.0038
angle:	11779	126054.42	-0.1342	0.2111	-0.2171	0.0040	-0.0009	-0.0047
angle:	11780	126065.11	-0.1356	0.2128	-0.2178	0.0027	-0.0008	-0.0053
angle:	11781	126075.81	-0.1349	0.2118	-0.2183	0.0034	-0.0002	-0.0059
angle:	11782	126086.62	-0.1356	0.2123	-0.2194	0.0027	-0.0003	-0.0069
angle:	11783	126097.11	-0.1349	0.2120	-0.2204	0.0034	0.0000	-0.0080
angle:	11784	126107.60	-0.1337	0.2118	-0.2221	0.0046	-0.0002	-0.0096
angle:	11785	126118.00	-0.1328	0.2105	-0.2251	0.0055	-0.0015	-0.0126
angle:	11786	126128.50	-0.1311	0.2103	-0.2284	0.0071	-0.0017	-0.0160
angle:	11787	126138.90	-0.1292	0.2092	-0.2295	0.0090	-0.0028	-0.0171
angle:	11788	126398.50	-0.1454	0.2125	-0.2301	-0.0072	0.0005	-0.0177
angle:	11789	126413.45	-0.1433	0.2114	-0.2320	-0.0050	-0.0005	-0.0196
angle:	11790	126428.50	-0.1425	0.2119	-0.2305	-0.0042	-0.0001	-0.0181
angle:	11791	126443.51	-0.1413	0.2125	-0.2301	-0.0030	0.0005	-0.0177

angle:	11792	126458.34	-0.1406	0.2133	-0.2280	-0.0024	0.0013	-0.0156
angle:	11793	126473.45	-0.1395	0.2131	-0.2260	-0.0013	0.0011	-0.0136
angle:	11794	126488.64	-0.1392	0.2138	-0.2261	-0.0009	0.0019	-0.0137
angle:	11795	126503.74	-0.1393	0.2133	-0.2265	-0.0010	0.0013	-0.0141
angle:	11796	126518.74	-0.1396	0.2134	-0.2263	-0.0013	0.0014	-0.0139
angle:	11797	126533.75	-0.1396	0.2142	-0.2270	-0.0013	0.0022	-0.0146
angle:	11798	126548.53	-0.1388	0.2146	-0.2266	-0.0006	0.0026	-0.0142
angle:	11799	126563.04	-0.1396	0.2141	-0.2264	-0.0013	0.0021	-0.0140
angle:	11800	126577.93	-0.1393	0.2149	-0.2256	-0.0011	0.0029	-0.0132
angle:	11801	126592.83	-0.1394	0.2143	-0.2259	-0.0011	0.0023	-0.0135
angle:	11802	126607.62	-0.1389	0.2141	-0.2246	-0.0006	0.0021	-0.0122
angle:	11803	126622.53	-0.1377	0.2142	-0.2245	0.0005	0.0022	-0.0121
angle:	11804	126637.22	-0.1377	0.2152	-0.2240	0.0005	0.0032	-0.0115
angle:	11805	126652.11	-0.1384	0.2145	-0.2241	-0.0001	0.0025	-0.0117
angle:	11806	126666.92	-0.1378	0.2144	-0.2233	0.0004	0.0024	-0.0109
angle:	11807	126681.82	-0.1373	0.2158	-0.2237	0.0009	0.0038	-0.0113
angle:	11808	126696.42	-0.1376	0.2142	-0.2238	0.0006	0.0022	-0.0114
angle:	11809	126710.71	-0.1384	0.2153	-0.2244	-0.0002	0.0033	-0.0120
angle:	11810	126724.72	-0.1378	0.2141	-0.2231	0.0005	0.0021	-0.0107
angle:	11811	126739.00	-0.1377	0.2152	-0.2236	0.0005	0.0032	-0.0112
angle:	11812	126753.49	-0.1366	0.2140	-0.2222	0.0017	0.0020	-0.0098
angle:	11813	126768.20	-0.1379	0.2144	-0.2207	0.0003	0.0024	-0.0083
angle:	11814	126782.99	-0.1374	0.2141	-0.2190	0.0009	0.0021	-0.0066
angle:	11815	126798.09	-0.1381	0.2159	-0.2199	0.0002	0.0039	-0.0075
angle:	11816	126813.20	-0.1375	0.2133	-0.2198	0.0007	0.0013	-0.0074
angle:	11817	126828.30	-0.1382	0.2153	-0.2188	0.0001	0.0034	-0.0064
angle:	11818	126843.68	-0.1367	0.2140	-0.2190	0.0016	0.0020	-0.0066
angle:	11819	126859.08	-0.1374	0.2142	-0.2182	0.0008	0.0022	-0.0058
angle:	11820	126874.08	-0.1370	0.2150	-0.2178	0.0013	0.0030	-0.0054
angle:	11821	126888.49	-0.1375	0.2164	-0.2189	0.0008	0.0044	-0.0065
angle:	11822	126902.38	-0.1379	0.2154	-0.2192	0.0003	0.0034	-0.0067
angle:	11823	126916.17	-0.1375	0.2151	-0.2196	0.0008	0.0031	-0.0072
angle:	11824	126930.36	-0.1375	0.2158	-0.2205	0.0007	0.0038	-0.0081
angle:	11825	126944.57	-0.1375	0.2153	-0.2199	0.0008	0.0033	-0.0075
angle:	11826	126958.57	-0.1371	0.2146	-0.2205	0.0011	0.0026	-0.0081
angle:	11827	126972.48	-0.1372	0.2140	-0.2208	0.0010	0.0020	-0.0084
angle:	11828	126986.16	-0.1370	0.2138	-0.2201	0.0013	0.0018	-0.0077
angle:	11829	127000.26	-0.1374	0.2155	-0.2196	0.0008	0.0035	-0.0072
angle:	11830	127014.55	-0.1370	0.2147	-0.2193	0.0013	0.0027	-0.0069
angle:	11831	127028.56	-0.1385	0.2148	-0.2192	-0.0003	0.0028	-0.0068
angle:	11832	127042.66	-0.1381	0.2148	-0.2190	0.0002	0.0028	-0.0066
angle:	11833	127056.86	-0.1379	0.2142	-0.2187	0.0004	0.0023	-0.0063
angle:	11834	127070.76	-0.1374	0.2149	-0.2182	0.0009	0.0029	-0.0058
angle:	11835	127084.95	-0.1371	0.2143	-0.2189	0.0012	0.0023	-0.0065
angle:	11836	127099.24	-0.1377	0.2152	-0.2188	0.0005	0.0032	-0.0064
angle:	11837	127113.64	-0.1373	0.2155	-0.2181	0.0010	0.0035	-0.0057
angle:	11838	127128.04	-0.1365	0.2137	-0.2172	0.0018	0.0017	-0.0048
angle:	11839	127142.34	-0.1379	0.2149	-0.2173	0.0004	0.0029	-0.0049
angle:	11840	127157.33	-0.1379	0.2140	-0.2166	0.0004	0.0020	-0.0042
angle:	11841	127172.23	-0.1370	0.2148	-0.2178	0.0013	0.0029	-0.0053
angle:	11842	127187.48	-0.1369	0.2154	-0.2169	0.0014	0.0034	-0.0045
angle:	11843	127202.53	-0.1369	0.2150	-0.2167	0.0013	0.0030	-0.0043
angle:	11844	127217.63	-0.1362	0.2139	-0.2163	0.0021	0.0019	-0.0039
angle:	11845	127232.73	-0.1373	0.2146	-0.2160	0.0010	0.0026	-0.0036
angle:	11846	127247.72	-0.1379	0.2153	-0.2155	0.0004	0.0033	-0.0031
angle:	11847	127262.71	-0.1384	0.2156	-0.2164	-0.0001	0.0036	-0.0039
angle:	11848	127277.11	-0.1380	0.2159	-0.2162	0.0003	0.0039	-0.0038
angle:	11849	127291.62	-0.1386	0.2147	-0.2159	-0.0004	0.0027	-0.0034
angle:	11850	127305.91	-0.1379	0.2152	-0.2167	0.0003	0.0032	-0.0043
angle:	11851	127319.81	-0.1384	0.2159	-0.2170	-0.0002	0.0039	-0.0046
angle:	11852	127333.61	-0.1380	0.2153	-0.2168	0.0003	0.0033	-0.0043
angle:	11853	127347.50	-0.1374	0.2137	-0.2176	0.0009	0.0017	-0.0052
angle:	11854	127362.00	-0.1375	0.2136	-0.2169	0.0007	0.0016	-0.0045
angle:	11855	127376.81	-0.1386	0.2158	-0.2165	-0.0003	0.0038	-0.0041
angle:	11856	127392.00	-0.1385	0.2150	-0.2166	-0.0003	0.0030	-0.0042
angle:	11857	127406.90	-0.1370	0.2140	-0.2160	0.0013	0.0020	-0.0036
angle:	11858	127422.00	-0.1387	0.2151	-0.2162	-0.0005	0.0031	-0.0038
angle:	11859	127437.19	-0.1378	0.2153	-0.2150	0.0004	0.0033	-0.0026
angle:	11860	127452.29	-0.1371	0.2160	-0.2157	0.0011	0.0040	-0.0033
angle:	11861	127467.38	-0.1369	0.2157	-0.2163	0.0013	0.0037	-0.0039
angle:	11862	127482.28	-0.1374	0.2153	-0.2161	0.0008	0.0033	-0.0037
angle:	11863	127496.79	-0.1375	0.2164	-0.2163	0.0007	0.0044	-0.0039
angle:	11864	127511.28	-0.1381	0.2151	-0.2170	0.0002	0.0031	-0.0046
angle:	11865	127525.88	-0.1377	0.2159	-0.2172	0.0006	0.0039	-0.0048
angle:	11866	127540.54	-0.1379	0.2166	-0.2176	0.0004	0.0046	-0.0051
angle:	11867	127555.18	-0.1375	0.2155	-0.2168	0.0008	0.0035	-0.0044
angle:	11868	127569.78	-0.1372	0.2157	-0.2173	0.0010	0.0037	-0.0049
angle:	11869	127584.51	-0.1368	0.2142	-0.2180	0.0014	0.0022	-0.0056
angle:	11870	127599.17	-0.1364	0.2150	-0.2179	0.0019	0.0030	-0.0055
angle:	11871	127614.36	-0.1371	0.2152	-0.2178	0.0012	0.0032	-0.0054
angle:	11872	127629.17	-0.1366	0.2155	-0.2181	0.0017	0.0035	-0.0057
angle:	11873	127644.06	-0.1361	0.2159	-0.2191	0.0021	0.0039	-0.0066
angle:	11874	127658.95	-0.1356	0.2170	-0.2192	0.0026	0.0050	-0.0068
angle:	11875	127871.22	-0.1388	0.2130	-0.1933	-0.0005	0.0010	0.0191
angle:	11876	127882.71	-0.1399	0.2123	-0.1934	-0.0016	0.0003	0.0190
angle:	11877	127894.22	-0.1394	0.2114	-0.1940	-0.0011	-0.0005	0.0184
angle:	11878	127905.62	-0.1390	0.2116	-0.1940	-0.0008	-0.0004	0.0185
angle:	11879	127916.91	-0.1388	0.2116	-0.1947	-0.0005	-0.0004	0.0178
angle:	11880	127928.11	-0.1375	0.2109	-0.1944	0.0008	-0.0011	0.0180
angle:	11881	127939.31	-0.1376	0.2110	-0.1933	0.0007	-0.0009	0.0191
angle:	11882	127950.61	-0.1379	0.2109	-0.1941	0.0004	-0.0011	0.0184
angle:	11883	127961.90	-0.1378	0.2113	-0.1941	0.0005	-0.0007	0.0183

angle:	11884	127973.30	-0.1383	0.2127	-0.1942	0.0000	0.0007	0.0182
angle:	11885	127984.41	-0.1374	0.2106	-0.1946	0.0008	-0.0014	0.0178
angle:	11886	127995.54	-0.1381	0.2117	-0.1944	0.0001	-0.0003	0.0180
angle:	11887	128006.40	-0.1378	0.2107	-0.1954	0.0004	-0.0013	0.0171
angle:	11888	128017.41	-0.1374	0.2116	-0.1956	0.0009	-0.0004	0.0168
angle:	11889	128028.69	-0.1378	0.2107	-0.1959	0.0005	-0.0012	0.0165
angle:	11890	128040.19	-0.1380	0.2114	-0.1968	0.0002	-0.0006	0.0157
angle:	11891	128051.39	-0.1380	0.2107	-0.1961	0.0002	-0.0013	0.0163
angle:	11892	128062.29	-0.1376	0.2109	-0.1962	0.0007	-0.0011	0.0162
angle:	11893	128073.29	-0.1380	0.2114	-0.1965	0.0002	-0.0006	0.0159
angle:	11894	128084.58	-0.1375	0.2119	-0.1984	0.0007	-0.0001	0.0140
angle:	11895	128095.88	-0.1380	0.2127	-0.1986	0.0003	0.0007	0.0138
angle:	11896	128106.98	-0.1376	0.2106	-0.1986	0.0007	-0.0014	0.0138
angle:	11897	128117.79	-0.1377	0.2106	-0.1992	0.0006	-0.0014	0.0132
angle:	11898	128128.38	-0.1376	0.2109	-0.2001	0.0006	-0.0011	0.0123
angle:	11899	128138.89	-0.1375	0.2114	-0.2012	0.0008	-0.0006	0.0112
angle:	11900	128149.67	-0.1376	0.2123	-0.2021	0.0007	0.0003	0.0103
angle:	11901	128160.48	-0.1373	0.2116	-0.2029	0.0009	-0.0004	0.0095
angle:	11902	128171.18	-0.1373	0.2118	-0.2029	0.0010	-0.0002	0.0095
angle:	11903	128182.17	-0.1376	0.2112	-0.2035	0.0006	-0.0008	0.0089
angle:	11904	128193.57	-0.1375	0.2114	-0.2037	0.0008	-0.0006	0.0087
angle:	11905	128204.86	-0.1372	0.2105	-0.2036	0.0011	-0.0015	0.0088
angle:	11906	128216.26	-0.1370	0.2123	-0.2051	0.0013	0.0003	0.0073
angle:	11907	128227.57	-0.1373	0.2108	-0.2051	0.0009	-0.0012	0.0073
angle:	11908	128238.95	-0.1373	0.2104	-0.2068	0.0010	-0.0016	0.0056
angle:	11909	128250.26	-0.1374	0.2117	-0.2072	0.0009	-0.0002	0.0052
angle:	11910	128261.55	-0.1367	0.2108	-0.2067	0.0015	-0.0012	0.0057
angle:	11911	128272.86	-0.1381	0.2105	-0.2072	0.0001	-0.0015	0.0052
angle:	11912	128283.96	-0.1370	0.2098	-0.2082	0.0012	-0.0022	0.0042
angle:	11913	128294.76	-0.1365	0.2104	-0.2088	0.0017	-0.0016	0.0036
angle:	11914	128305.56	-0.1364	0.2113	-0.2082	0.0019	-0.0007	0.0042
angle:	11915	128316.26	-0.1369	0.2113	-0.2075	0.0013	-0.0007	0.0049
angle:	11916	128327.04	-0.1362	0.2108	-0.2088	0.0021	-0.0012	0.0036
angle:	11917	128337.35	-0.1370	0.2096	-0.2085	0.0013	-0.0024	0.0039
angle:	11918	128347.74	-0.1369	0.2103	-0.2087	0.0013	-0.0017	0.0037
angle:	11919	128358.14	-0.1373	0.2108	-0.2084	0.0009	-0.0012	0.0040
angle:	11920	128368.84	-0.1374	0.2116	-0.2092	0.0009	-0.0004	0.0032
angle:	11921	128379.53	-0.1373	0.2112	-0.2095	0.0009	-0.0008	0.0029
angle:	11922	128389.84	-0.1373	0.2100	-0.2109	0.0010	-0.0020	0.0015
angle:	11923	128400.24	-0.1375	0.2110	-0.2108	0.0007	-0.0010	0.0016
angle:	11924	128410.83	-0.1366	0.2099	-0.2114	0.0016	-0.0021	0.0010
angle:	11925	128421.49	-0.1374	0.2120	-0.2118	0.0008	0.0001	0.0006
angle:	11926	128432.03	-0.1371	0.2099	-0.2122	0.0011	-0.0020	0.0002
angle:	11927	128442.49	-0.1378	0.2113	-0.2124	0.0004	-0.0007	0.0000
angle:	11928	128452.93	-0.1382	0.2116	-0.2130	0.0000	-0.0004	-0.0006
angle:	11929	128463.72	-0.1376	0.2099	-0.2132	0.0007	-0.0021	-0.0008
angle:	11930	128474.83	-0.1375	0.2094	-0.2134	0.0008	-0.0026	-0.0010
angle:	11931	128485.93	-0.1370	0.2112	-0.2130	0.0013	-0.0008	-0.0006
angle:	11932	128497.22	-0.1373	0.2113	-0.2123	0.0010	-0.0007	0.0001
angle:	11933	128508.71	-0.1366	0.2099	-0.2125	0.0016	-0.0021	-0.0001
angle:	11934	128520.01	-0.1369	0.2103	-0.2124	0.0014	-0.0017	0.0000
angle:	11935	128531.31	-0.1363	0.2110	-0.2141	0.0020	-0.0010	-0.0016
angle:	11936	128542.42	-0.1374	0.2113	-0.2131	0.0009	-0.0007	-0.0007
angle:	11937	128553.31	-0.1365	0.2112	-0.2137	0.0018	-0.0008	-0.0013
angle:	11938	128564.21	-0.1367	0.2104	-0.2143	0.0016	-0.0016	-0.0019
angle:	11939	128574.71	-0.1363	0.2102	-0.2154	0.0019	-0.0018	-0.0030
angle:	11940	128585.31	-0.1370	0.2096	-0.2158	0.0013	-0.0024	-0.0034
angle:	11941	128595.90	-0.1369	0.2096	-0.2161	0.0013	-0.0024	-0.0037
angle:	11942	128606.61	-0.1364	0.2103	-0.2160	0.0018	-0.0017	-0.0035
angle:	11943	128617.49	-0.1368	0.2112	-0.2153	0.0014	-0.0008	-0.0029
angle:	11944	128628.46	-0.1368	0.2108	-0.2167	0.0014	-0.0012	-0.0043
angle:	11945	128639.30	-0.1371	0.2109	-0.2169	0.0011	-0.0011	-0.0045
angle:	11946	128650.10	-0.1369	0.2110	-0.2166	0.0014	-0.0010	-0.0042
angle:	11947	128660.98	-0.1365	0.2109	-0.2167	0.0018	-0.0011	-0.0043
angle:	11948	128671.79	-0.1355	0.2116	-0.2171	0.0027	-0.0004	-0.0047
angle:	11949	128682.58	-0.1354	0.2107	-0.2167	0.0028	-0.0013	-0.0043
angle:	11950	128692.98	-0.1369	0.2127	-0.2183	0.0014	0.0007	-0.0059
angle:	11951	128703.29	-0.1358	0.2114	-0.2195	0.0024	-0.0006	-0.0071
angle:	11952	128713.79	-0.1367	0.2105	-0.2195	0.0015	-0.0015	-0.0071
angle:	11953	128724.28	-0.1365	0.2123	-0.2198	0.0018	0.0003	-0.0074
angle:	11954	128734.88	-0.1365	0.2110	-0.2198	0.0018	-0.0010	-0.0073
angle:	11955	128745.58	-0.1370	0.2134	-0.2198	0.0013	0.0014	-0.0074
angle:	11956	128756.38	-0.1366	0.2121	-0.2200	0.0017	0.0001	-0.0076
angle:	11957	128767.18	-0.1364	0.2122	-0.2241	0.0019	0.0002	-0.0116
angle:	11958	128777.87	-0.1353	0.2104	-0.2279	0.0030	-0.0016	-0.0155
angle:	11959	128788.57	-0.1338	0.2096	-0.2305	0.0045	-0.0024	-0.0181
angle:	11960	128798.97	-0.1327	0.2095	-0.2294	0.0056	-0.0025	-0.0170
angle:	11961	128809.37	-0.1315	0.2103	-0.2301	0.0068	-0.0017	-0.0177
angle:	11962	129056.12	-0.1413	0.2175	-0.2265	-0.0030	0.0055	-0.0141
angle:	11963	129070.73	-0.1394	0.2166	-0.2256	-0.0011	0.0047	-0.0132
angle:	11964	129085.33	-0.1397	0.2171	-0.2257	-0.0014	0.0051	-0.0133
angle:	11965	129100.73	-0.1397	0.2177	-0.2235	-0.0015	0.0057	-0.0111
angle:	11966	129116.01	-0.1385	0.2177	-0.2234	-0.0002	0.0057	-0.0109
angle:	11967	129131.21	-0.1392	0.2165	-0.2235	-0.0009	0.0045	-0.0111
angle:	11968	129145.92	-0.1381	0.2175	-0.2226	0.0002	0.0055	-0.0102
angle:	11969	129160.71	-0.1381	0.2189	-0.2227	0.0001	0.0069	-0.0103
angle:	11970	129175.43	-0.1391	0.2166	-0.2225	-0.0008	0.0046	-0.0100
angle:	11971	129190.30	-0.1387	0.2168	-0.2221	-0.0005	0.0048	-0.0097
angle:	11972	129205.60	-0.1391	0.2171	-0.2222	-0.0008	0.0051	-0.0098
angle:	11973	129220.10	-0.1383	0.2168	-0.2227	0.0000	0.0048	-0.0103
angle:	11974	129234.60	-0.1382	0.2173	-0.2242	0.0001	0.0053	-0.0117
angle:	11975	129249.30	-0.1386	0.2175	-0.2250	-0.0003	0.0055	-0.0126

angle:	11976	129263.99	-0.1386	0.2170	-0.2253	-0.0004	0.0050	-0.0128
angle:	11977	129278.89	-0.1386	0.2174	-0.2253	-0.0003	0.0054	-0.0129
angle:	11978	129293.70	-0.1386	0.2180	-0.2255	-0.0003	0.0060	-0.0131
angle:	11979	129308.39	-0.1375	0.2165	-0.2259	0.0008	0.0046	-0.0135
angle:	11980	129322.88	-0.1373	0.2175	-0.2273	0.0010	0.0055	-0.0148
angle:	11981	129337.19	-0.1377	0.2159	-0.2267	0.0006	0.0039	-0.0143
angle:	11982	129351.69	-0.1374	0.2170	-0.2261	0.0008	0.0050	-0.0137
angle:	11983	129365.99	-0.1373	0.2183	-0.2244	0.0009	0.0063	-0.0120
angle:	11984	129380.49	-0.1385	0.2172	-0.2228	-0.0003	0.0052	-0.0104
angle:	11985	129394.37	-0.1385	0.2170	-0.2230	-0.0003	0.0050	-0.0106
angle:	11986	129408.07	-0.1385	0.2177	-0.2220	-0.0003	0.0057	-0.0096
angle:	11987	129421.56	-0.1385	0.2156	-0.2229	-0.0003	0.0036	-0.0104
angle:	11988	129435.17	-0.1381	0.2176	-0.2238	0.0002	0.0056	-0.0114
angle:	11989	129448.97	-0.1388	0.2169	-0.2238	-0.0005	0.0049	-0.0114
angle:	11990	129462.89	-0.1398	0.2166	-0.2237	-0.0015	0.0047	-0.0112
angle:	11991	129476.95	-0.1387	0.2170	-0.2247	-0.0004	0.0050	-0.0123
angle:	11992	129490.96	-0.1389	0.2177	-0.2252	-0.0006	0.0057	-0.0128
angle:	11993	129504.66	-0.1389	0.2163	-0.2243	-0.0007	0.0043	-0.0119
angle:	11994	129518.06	-0.1387	0.2177	-0.2235	-0.0004	0.0057	-0.0111
angle:	11995	129531.55	-0.1382	0.2164	-0.2242	0.0000	0.0044	-0.0118
angle:	11996	129545.25	-0.1379	0.2159	-0.2234	0.0003	0.0039	-0.0110
angle:	11997	129559.35	-0.1384	0.2170	-0.2224	-0.0002	0.0050	-0.0099
angle:	11998	129573.34	-0.1376	0.2173	-0.2228	0.0006	0.0053	-0.0104
angle:	11999	129587.48	-0.1381	0.2170	-0.2231	0.0002	0.0050	-0.0107
angle:	12000	129601.54	-0.1382	0.2163	-0.2222	0.0000	0.0043	-0.0098
angle:	12001	129615.64	-0.1379	0.2173	-0.2218	0.0004	0.0054	-0.0094
angle:	12002	129629.73	-0.1383	0.2182	-0.2224	0.0000	0.0062	-0.0100
angle:	12003	129643.63	-0.1389	0.2174	-0.2219	-0.0006	0.0054	-0.0095
angle:	12004	129657.64	-0.1385	0.2163	-0.2218	-0.0002	0.0043	-0.0093
angle:	12005	129671.83	-0.1374	0.2162	-0.2224	0.0009	0.0042	-0.0099
angle:	12006	129685.93	-0.1379	0.2177	-0.2230	0.0004	0.0057	-0.0106
angle:	12007	129699.93	-0.1387	0.2167	-0.2227	-0.0004	0.0047	-0.0103
angle:	12008	129714.12	-0.1386	0.2175	-0.2226	-0.0003	0.0055	-0.0102
angle:	12009	129728.82	-0.1374	0.2168	-0.2235	0.0009	0.0048	-0.0111
angle:	12010	129743.51	-0.1383	0.2169	-0.2238	0.0000	0.0049	-0.0114
angle:	12011	129757.61	-0.1369	0.2175	-0.2238	0.0014	0.0055	-0.0114
angle:	12012	129771.62	-0.1381	0.2156	-0.2247	0.0002	0.0036	-0.0123
angle:	12013	129785.41	-0.1382	0.2166	-0.2246	0.0000	0.0046	-0.0122
angle:	12014	129799.01	-0.1380	0.2173	-0.2246	0.0003	0.0053	-0.0122
angle:	12015	129812.80	-0.1377	0.2164	-0.2252	0.0006	0.0044	-0.0128
angle:	12016	129826.81	-0.1383	0.2161	-0.2257	0.0000	0.0041	-0.0133
angle:	12017	129840.91	-0.1384	0.2164	-0.2255	-0.0001	0.0044	-0.0131
angle:	12018	129855.11	-0.1374	0.2176	-0.2255	0.0009	0.0056	-0.0131
angle:	12019	129869.30	-0.1376	0.2179	-0.2257	0.0006	0.0060	-0.0132
angle:	12020	129883.29	-0.1375	0.2167	-0.2251	0.0008	0.0047	-0.0126
angle:	12021	129897.20	-0.1372	0.2164	-0.2247	0.0010	0.0044	-0.0123
angle:	12022	129911.30	-0.1375	0.2175	-0.2252	0.0007	0.0055	-0.0128
angle:	12023	129925.28	-0.1370	0.2177	-0.2248	0.0012	0.0057	-0.0124
angle:	12024	129938.98	-0.1379	0.2158	-0.2238	0.0004	0.0038	-0.0114
angle:	12025	129952.69	-0.1379	0.2165	-0.2244	0.0003	0.0045	-0.0120
angle:	12026	129966.57	-0.1382	0.2181	-0.2251	0.0001	0.0061	-0.0127
angle:	12027	129980.52	-0.1376	0.2172	-0.2249	0.0006	0.0052	-0.0125
angle:	12028	129994.68	-0.1375	0.2187	-0.2261	0.0008	0.0067	-0.0137
angle:	12029	130008.78	-0.1385	0.2164	-0.2261	-0.0002	0.0044	-0.0137
angle:	12030	130022.57	-0.1384	0.2172	-0.2262	-0.0002	0.0052	-0.0138
angle:	12031	130036.37	-0.1383	0.2168	-0.2267	-0.0001	0.0048	-0.0143
angle:	12032	130050.56	-0.1378	0.2174	-0.2264	0.0004	0.0054	-0.0140
angle:	12033	130064.57	-0.1373	0.2165	-0.2260	0.0009	0.0045	-0.0136
angle:	12034	130078.68	-0.1382	0.2166	-0.2255	0.0000	0.0046	-0.0131
angle:	12035	130092.76	-0.1374	0.2168	-0.2258	0.0008	0.0049	-0.0134
angle:	12036	130106.96	-0.1381	0.2180	-0.2241	0.0001	0.0060	-0.0117
angle:	12037	130121.05	-0.1376	0.2162	-0.2239	0.0006	0.0042	-0.0115
angle:	12038	130135.36	-0.1381	0.2179	-0.2241	0.0002	0.0059	-0.0117
angle:	12039	130149.75	-0.1376	0.2177	-0.2234	0.0007	0.0057	-0.0110
angle:	12040	130164.04	-0.1370	0.2168	-0.2229	0.0012	0.0048	-0.0105
angle:	12041	130178.25	-0.1370	0.2172	-0.2230	0.0013	0.0053	-0.0106
angle:	12042	130192.84	-0.1378	0.2176	-0.2237	0.0005	0.0056	-0.0113
angle:	12043	130207.52	-0.1372	0.2170	-0.2231	0.0010	0.0050	-0.0107
angle:	12044	130222.04	-0.1370	0.2172	-0.2233	0.0012	0.0052	-0.0109
angle:	12045	130236.84	-0.1374	0.2176	-0.2223	0.0009	0.0056	-0.0099
angle:	12046	130252.04	-0.1369	0.2184	-0.2225	0.0014	0.0064	-0.0101
angle:	12047	130267.03	-0.1363	0.2170	-0.2228	0.0020	0.0050	-0.0104
angle:	12048	130281.93	-0.1357	0.2178	-0.2232	0.0025	0.0058	-0.0108
angle:	12049	130296.79	-0.1372	0.2131	-0.1970	0.0011	0.0011	0.0154
angle:	12050	130311.59	-0.1369	0.2136	-0.1971	0.0014	0.0016	0.0153
angle:	12051	130326.39	-0.1372	0.2129	-0.1971	0.0010	0.0009	0.0153
angle:	12052	130341.19	-0.1376	0.2116	-0.1966	0.0007	-0.0004	0.0158
angle:	12053	130355.99	-0.1377	0.2119	-0.1971	0.0006	-0.0001	0.0153
angle:	12054	130370.79	-0.1373	0.2104	-0.1971	0.0010	-0.0016	0.0153
angle:	12055	130385.59	-0.1368	0.2103	-0.1986	0.0014	-0.0017	0.0138
angle:	12056	130399.39	-0.1361	0.2108	-0.1989	0.0022	-0.0012	0.0135
angle:	12057	130413.19	-0.1368	0.2105	-0.1999	0.0015	-0.0015	0.0125
angle:	12058	130426.99	-0.1375	0.2108	-0.1998	0.0007	-0.0012	0.0126
angle:	12059	130440.79	-0.1367	0.2109	-0.2002	0.0016	-0.0011	0.0122
angle:	12060	130454.59	-0.1367	0.2114	-0.2003	0.0015	-0.0006	0.0121
angle:	12061	130468.39	-0.1369	0.2114	-0.2000	0.0013	-0.0006	0.0124
angle:	12062	130482.19	-0.1376	0.2113	-0.2016	0.0006	-0.0007	0.0108
angle:	12063	130495.99	-0.1363	0.2098	-0.2009	0.0020	-0.0022	0.0115
angle:	12064	130509.79	-0.1370	0.2099	-0.2003	0.0012	-0.0021	0.0121
angle:	12065	130523.59	-0.1374	0.2114	-0.2008	0.0009	-0.0006	0.0116
angle:	12066	130537.39	-0.1375	0.2114	-0.2004	0.0008	-0.0006	0.0120
angle:	12067	130551.19	-0.1379	0.2112	-0.2002	0.0004	-0.0008	0.0122

angle:	12068	130723.66	-0.1372	0.2114	-0.2018	0.0011	-0.0006	0.0106
angle:	12069	130734.26	-0.1365	0.2114	-0.2026	0.0017	-0.0005	0.0099
angle:	12070	130744.96	-0.1370	0.2119	-0.2039	0.0012	-0.0001	0.0085
angle:	12071	130755.75	-0.1373	0.2109	-0.2043	0.0009	-0.0011	0.0081
angle:	12072	130766.55	-0.1365	0.2105	-0.2038	0.0017	-0.0015	0.0086
angle:	12073	130777.25	-0.1372	0.2099	-0.2036	0.0011	-0.0020	0.0088
angle:	12074	130787.95	-0.1364	0.2102	-0.2047	0.0018	-0.0018	0.0077
angle:	12075	130798.55	-0.1368	0.2102	-0.2046	0.0015	-0.0018	0.0078
angle:	12076	130809.25	-0.1372	0.2104	-0.2051	0.0011	-0.0016	0.0074
angle:	12077	130819.95	-0.1368	0.2103	-0.2052	0.0014	-0.0016	0.0072
angle:	12078	130830.64	-0.1368	0.2100	-0.2054	0.0015	-0.0020	0.0070
angle:	12079	130841.34	-0.1365	0.2101	-0.2057	0.0018	-0.0019	0.0067
angle:	12080	130851.94	-0.1364	0.2115	-0.2060	0.0019	-0.0004	0.0064
angle:	12081	130862.53	-0.1367	0.2106	-0.2063	0.0015	-0.0014	0.0061
angle:	12082	130873.04	-0.1357	0.2114	-0.2068	0.0026	-0.0006	0.0056
angle:	12083	130883.54	-0.1361	0.2105	-0.2069	0.0021	-0.0015	0.0055
angle:	12084	130894.03	-0.1356	0.2106	-0.2075	0.0027	-0.0014	0.0049
angle:	12085	130904.63	-0.1360	0.2099	-0.2090	0.0022	-0.0021	0.0034
angle:	12086	130915.14	-0.1366	0.2105	-0.2100	0.0016	-0.0015	0.0024
angle:	12087	130925.62	-0.1364	0.2098	-0.2102	0.0018	-0.0022	0.0022
angle:	12088	130936.32	-0.1357	0.2108	-0.2111	0.0025	-0.0011	0.0014
angle:	12089	130947.33	-0.1363	0.2109	-0.2117	0.0020	-0.0010	0.0007
angle:	12090	130958.24	-0.1361	0.2117	-0.2113	0.0021	-0.0002	0.0012
angle:	12091	130969.32	-0.1357	0.2104	-0.2117	0.0026	-0.0016	0.0007
angle:	12092	130980.42	-0.1357	0.2092	-0.2116	0.0025	-0.0027	0.0008
angle:	12093	130991.32	-0.1366	0.2109	-0.2124	0.0017	-0.0011	0.0001
angle:	12094	131001.91	-0.1368	0.2110	-0.2126	0.0014	-0.0010	-0.0002
angle:	12095	131012.62	-0.1364	0.2107	-0.2141	0.0018	-0.0013	-0.0017
angle:	12096	131023.32	-0.1365	0.2094	-0.2139	0.0017	-0.0026	-0.0015
angle:	12097	131034.11	-0.1356	0.2113	-0.2147	0.0026	-0.0007	-0.0023
angle:	12098	131044.92	-0.1360	0.2111	-0.2156	0.0023	-0.0009	-0.0032
angle:	12099	131055.71	-0.1358	0.2101	-0.2160	0.0024	-0.0019	-0.0036
angle:	12100	131066.20	-0.1357	0.2113	-0.2165	0.0026	-0.0007	-0.0041
angle:	12101	131077.01	-0.1361	0.2106	-0.2171	0.0022	-0.0014	-0.0047
angle:	12102	131087.70	-0.1354	0.2103	-0.2179	0.0029	-0.0017	-0.0055
angle:	12103	131097.90	-0.1357	0.2111	-0.2182	0.0025	-0.0009	-0.0058
angle:	12104	131108.19	-0.1359	0.2110	-0.2189	0.0024	-0.0010	-0.0064
angle:	12105	131118.39	-0.1361	0.2085	-0.2183	0.0021	-0.0035	-0.0058
angle:	12106	131129.09	-0.1359	0.2104	-0.2189	0.0024	-0.0016	-0.0065
angle:	12107	131139.40	-0.1360	0.2102	-0.2200	0.0022	-0.0018	-0.0076
angle:	12108	131149.80	-0.1365	0.2107	-0.2194	0.0018	-0.0012	-0.0070
angle:	12109	131160.08	-0.1365	0.2102	-0.2195	0.0018	-0.0018	-0.0071
angle:	12110	131170.39	-0.1366	0.2090	-0.2197	0.0017	-0.0030	-0.0073
angle:	12111	131180.79	-0.1356	0.2089	-0.2203	0.0026	-0.0031	-0.0079
angle:	12112	131191.39	-0.1351	0.2103	-0.2195	0.0032	-0.0017	-0.0070
angle:	12113	131201.98	-0.1366	0.2108	-0.2199	0.0017	-0.0012	-0.0075
angle:	12114	131212.78	-0.1363	0.2082	-0.2202	0.0020	-0.0038	-0.0078
angle:	12115	131223.47	-0.1360	0.2092	-0.2207	0.0022	-0.0028	-0.0083
angle:	12116	131234.28	-0.1361	0.2095	-0.2216	0.0022	-0.0025	-0.0092
angle:	12117	131245.07	-0.1365	0.2091	-0.2217	0.0017	-0.0029	-0.0093
angle:	12118	131256.38	-0.1359	0.2110	-0.2222	0.0024	-0.0010	-0.0098
angle:	12119	131267.48	-0.1361	0.2098	-0.2226	0.0022	-0.0022	-0.0102
angle:	12120	131278.47	-0.1349	0.2107	-0.2232	0.0033	-0.0013	-0.0108
angle:	12121	131289.48	-0.1353	0.2125	-0.2223	0.0030	0.0005	-0.0099
angle:	12122	131300.28	-0.1356	0.2112	-0.2228	0.0027	-0.0008	-0.0104
angle:	12123	131311.27	-0.1360	0.2101	-0.2234	0.0022	-0.0018	-0.0110
angle:	12124	131322.26	-0.1355	0.2116	-0.2238	0.0027	-0.0004	-0.0114
angle:	12125	131333.37	-0.1351	0.2121	-0.2223	0.0032	0.0001	-0.0099
angle:	12126	131344.27	-0.1348	0.2114	-0.2229	0.0035	-0.0006	-0.0105
angle:	12127	131355.06	-0.1355	0.2120	-0.2231	0.0028	0.0000	-0.0107
angle:	12128	131365.86	-0.1358	0.2118	-0.2218	0.0024	-0.0002	-0.0094
angle:	12129	131376.75	-0.1358	0.2120	-0.2203	0.0025	0.0000	-0.0079
angle:	12130	131387.55	-0.1349	0.2130	-0.2212	0.0034	0.0010	-0.0088
angle:	12131	131398.25	-0.1359	0.2114	-0.2209	0.0024	-0.0006	-0.0084
angle:	12132	131408.95	-0.1354	0.2135	-0.2206	0.0029	0.0015	-0.0082
angle:	12133	131420.05	-0.1360	0.2120	-0.2213	0.0022	0.0001	-0.0089
angle:	12134	131430.95	-0.1360	0.2143	-0.2224	0.0023	0.0023	-0.0100
angle:	12135	131441.84	-0.1361	0.2138	-0.2223	0.0021	0.0018	-0.0099

Average Boresight Angles:

Roll: -0.1383 deg
Pitch: 0.2120 deg
Yaw: -0.2124 deg

Boresight Angle RMS:

Roll: 0.0021 deg
Pitch: 0.0027 deg
Yaw: 0.0108 deg

Success!!
Boresight Calculation finished