
AEROoffice V5.7.9 2023-09-27
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Dongle-ID: 3-3541217

Boresight Misalignment Calculations
11/09/2025 16:58:18

Project: Pol-Cal 11092025
Projectfile: C:\AEROofficeV51\PROYECTOS\12_PROYECTOS_OSPREY\25_0075_COM-MADRID\

Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\12_PROYECTOS_OSPREY\25_0075_COM-MADRID\
Event Mark File : C:\AEROofficeV51\PROYECTOS\12_PROYECTOS_OSPREY\25_0075_COM-MADRID\
AT Result File : C:\AEROofficeV51\PROYECTOS\12_PROYECTOS_OSPREY\25_0075_COM-MADRID\
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
1798 usable events found

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

612 events with matching eventnumbers found.

Postion offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	9680	394112.26	-0.007	-0.029	0.250	-0.007	-0.024	0.001
position:	9681	394116.08	-0.005	-0.035	0.256	-0.006	-0.029	0.007
position:	9682	394119.83	-0.004	-0.035	0.252	-0.005	-0.029	0.003
position:	9683	394123.55	0.000	-0.037	0.254	-0.001	-0.031	0.005
position:	9684	394127.24	-0.014	-0.018	0.258	-0.014	-0.012	0.009
position:	9685	394130.90	-0.014	-0.029	0.259	-0.015	-0.023	0.010
position:	9686	394134.49	-0.014	-0.025	0.269	-0.015	-0.019	0.020
position:	9687	394138.06	-0.008	-0.036	0.260	-0.009	-0.030	0.011
position:	9688	394141.60	-0.011	-0.033	0.244	-0.012	-0.027	-0.005
position:	9689	394145.12	0.001	-0.036	0.251	0.000	-0.030	0.002
position:	9690	394148.61	0.000	-0.035	0.261	-0.001	-0.029	0.012
position:	9691	394152.09	-0.009	-0.032	0.249	-0.010	-0.026	0.000
position:	9692	394155.56	0.003	-0.042	0.252	0.003	-0.036	0.003
position:	9693	394159.02	-0.009	-0.038	0.248	-0.009	-0.033	-0.002
position:	9694	394162.45	-0.011	-0.037	0.246	-0.011	-0.031	-0.003
position:	9695	394165.87	-0.010	-0.026	0.235	-0.011	-0.020	-0.015
position:	9696	394169.26	-0.006	-0.030	0.244	-0.007	-0.024	-0.005
position:	9697	394172.62	-0.009	-0.037	0.241	-0.009	-0.031	-0.008
position:	9698	394175.96	-0.007	-0.034	0.251	-0.008	-0.028	0.002
position:	9699	394179.30	-0.005	-0.031	0.243	-0.006	-0.025	-0.006
position:	9700	394182.65	-0.015	-0.042	0.203	-0.015	-0.037	-0.046
position:	9701	394186.00	-0.010	-0.035	0.225	-0.010	-0.029	-0.024
position:	9702	394189.35	-0.005	-0.042	0.235	-0.006	-0.036	-0.014
position:	9703	394192.67	-0.004	-0.031	0.226	-0.005	-0.025	-0.023
position:	9704	394195.98	0.002	-0.026	0.230	0.001	-0.020	-0.019
position:	9705	394199.29	-0.002	-0.025	0.240	-0.002	-0.019	-0.009
position:	9706	394202.60	-0.022	-0.040	0.234	-0.022	-0.034	-0.015
position:	9707	394205.91	-0.003	-0.046	0.245	-0.004	-0.041	-0.004
position:	9708	394209.22	-0.009	-0.041	0.215	-0.009	-0.035	-0.034
position:	9709	394212.54	0.002	-0.032	0.236	0.002	-0.027	-0.013
position:	9710	394215.85	-0.014	-0.034	0.233	-0.014	-0.029	-0.016
position:	9711	394219.16	-0.012	-0.028	0.258	-0.012	-0.023	0.009
position:	9712	394222.47	-0.004	-0.030	0.222	-0.005	-0.024	-0.027
position:	9713	394225.78	-0.004	-0.037	0.250	-0.004	-0.031	0.001
position:	9714	394229.11	-0.009	-0.041	0.244	-0.010	-0.035	-0.005
position:	9715	394232.43	-0.007	-0.031	0.242	-0.007	-0.026	-0.007
position:	9716	394235.75	-0.004	-0.039	0.250	-0.005	-0.033	0.001
position:	9717	394239.07	-0.009	-0.044	0.226	-0.010	-0.039	-0.023
position:	9718	394242.41	0.009	-0.039	0.248	0.008	-0.033	-0.001
position:	9719	394245.76	-0.006	-0.026	0.228	-0.006	-0.021	-0.021
position:	9720	394249.15	-0.010	-0.046	0.244	-0.011	-0.040	-0.005

position:	9721	394252.55	-0.008	-0.028	0.245	-0.008	-0.022	-0.005
position:	9722	394255.95	-0.007	-0.045	0.238	-0.007	-0.039	-0.012
position:	9723	394259.40	-0.003	-0.028	0.242	-0.003	-0.022	-0.008
position:	9724	394262.88	-0.002	-0.035	0.239	-0.003	-0.029	-0.010
position:	9725	394266.41	-0.010	-0.039	0.230	-0.011	-0.033	-0.019
position:	9726	394269.94	-0.002	-0.034	0.230	-0.002	-0.028	-0.019
position:	9727	394273.44	-0.003	-0.025	0.219	-0.003	-0.019	-0.030
position:	9728	394276.92	-0.005	-0.027	0.219	-0.006	-0.022	-0.030
position:	9729	394280.38	0.000	-0.021	0.215	-0.001	-0.015	-0.034
position:	9730	394283.85	-0.007	-0.021	0.217	-0.007	-0.015	-0.032
position:	9629	393784.36	0.022	0.003	0.254	0.021	0.009	0.005
position:	9630	393786.96	0.012	0.015	0.244	0.012	0.021	-0.005
position:	9631	393789.56	0.017	0.017	0.248	0.016	0.023	-0.001
position:	9632	393792.17	0.022	0.024	0.237	0.022	0.030	-0.012
position:	9633	393794.78	0.015	0.032	0.257	0.014	0.037	0.008
position:	9634	393797.40	0.023	0.027	0.247	0.023	0.033	-0.002
position:	9635	393800.03	0.007	0.023	0.258	0.006	0.029	0.009
position:	9636	393802.67	0.017	0.028	0.249	0.017	0.034	0.000
position:	9637	393805.33	0.011	0.031	0.264	0.010	0.037	0.015
position:	9638	393808.00	0.014	0.017	0.256	0.013	0.022	0.007
position:	9639	393810.69	0.020	0.020	0.264	0.020	0.026	0.015
position:	9640	393813.39	0.012	0.026	0.278	0.011	0.032	0.029
position:	9641	393816.10	0.024	0.026	0.278	0.024	0.031	0.028
position:	9642	393818.83	0.031	0.031	0.264	0.030	0.036	0.015
position:	9643	393821.57	0.025	0.041	0.261	0.024	0.047	0.012
position:	9644	393824.30	0.024	0.040	0.271	0.023	0.045	0.022
position:	9645	393827.04	0.024	0.019	0.271	0.023	0.025	0.022
position:	9646	393829.79	0.015	0.029	0.287	0.014	0.035	0.038
position:	9647	393832.55	0.013	0.019	0.273	0.012	0.025	0.024
position:	9648	393835.31	0.016	0.029	0.263	0.015	0.035	0.014
position:	9649	393838.07	0.018	0.012	0.239	0.017	0.018	-0.010
position:	9650	393840.85	0.020	0.041	0.267	0.019	0.047	0.018
position:	9651	393843.62	0.026	0.023	0.272	0.026	0.029	0.022
position:	9652	393846.40	0.024	0.019	0.288	0.023	0.024	0.039
position:	9653	393849.17	0.022	0.028	0.266	0.022	0.034	0.017
position:	9654	393851.94	0.040	0.018	0.268	0.040	0.024	0.019
position:	9655	393854.70	0.010	0.020	0.277	0.010	0.026	0.028
position:	9656	393857.48	0.027	0.027	0.282	0.027	0.032	0.033
position:	9657	393860.25	0.017	0.035	0.298	0.017	0.041	0.049
position:	9658	393863.05	0.013	0.021	0.283	0.012	0.027	0.034
position:	9659	393865.84	0.018	0.022	0.259	0.017	0.028	0.010
position:	9660	393868.64	0.008	0.018	0.278	0.007	0.024	0.029
position:	9661	393871.45	0.021	0.013	0.287	0.020	0.019	0.037
position:	9662	393874.26	0.017	0.016	0.261	0.016	0.021	0.012
position:	9663	393877.07	0.026	0.009	0.254	0.026	0.015	0.005
position:	9664	393879.87	0.013	0.031	0.278	0.012	0.037	0.029
position:	9665	393882.68	0.018	0.025	0.267	0.018	0.031	0.018
position:	9666	393885.49	0.010	0.051	0.279	0.010	0.056	0.030
position:	9667	393888.30	0.017	0.011	0.272	0.016	0.017	0.023
position:	9668	393891.11	0.017	0.029	0.285	0.016	0.035	0.036
position:	9669	393893.89	0.028	0.029	0.287	0.027	0.035	0.038
position:	9670	393896.68	0.022	0.031	0.286	0.022	0.037	0.037
position:	9671	393899.46	0.026	0.027	0.293	0.026	0.032	0.044
position:	9672	393902.24	0.012	0.023	0.289	0.011	0.029	0.040
position:	9673	393905.02	0.027	0.025	0.315	0.026	0.031	0.065
position:	9674	393907.80	0.024	0.025	0.280	0.024	0.031	0.031
position:	9675	393910.57	0.021	0.030	0.286	0.021	0.035	0.036
position:	9676	393913.33	0.023	0.033	0.298	0.023	0.038	0.049
position:	9677	393916.09	0.023	0.025	0.292	0.022	0.031	0.043
position:	9678	393918.85	0.014	0.021	0.277	0.013	0.026	0.028
position:	9679	393921.62	0.030	0.017	0.283	0.029	0.023	0.034
position:	9465	393089.97	-0.009	-0.024	0.248	-0.010	-0.018	-0.001
position:	9466	393093.26	-0.003	-0.040	0.251	-0.004	-0.034	0.002
position:	9467	393096.62	-0.016	-0.042	0.247	-0.017	-0.036	-0.002
position:	9468	393100.03	-0.008	-0.041	0.236	-0.009	-0.036	-0.013
position:	9469	393103.46	-0.021	-0.036	0.249	-0.022	-0.031	0.000
position:	9470	393106.94	-0.015	-0.041	0.252	-0.016	-0.035	0.003
position:	9471	393110.50	-0.013	-0.037	0.257	-0.014	-0.032	0.008
position:	9472	393114.07	-0.012	-0.040	0.264	-0.012	-0.034	0.015
position:	9473	393117.60	-0.015	-0.057	0.262	-0.016	-0.051	0.013
position:	9474	393121.12	0.004	-0.057	0.267	0.003	-0.051	0.018
position:	9475	393124.63	-0.012	-0.049	0.266	-0.013	-0.043	0.017
position:	9476	393128.18	-0.016	-0.056	0.255	-0.017	-0.050	0.006
position:	9477	393131.76	-0.027	-0.040	0.265	-0.028	-0.034	0.016
position:	9478	393135.36	-0.023	-0.049	0.261	-0.024	-0.043	0.012
position:	9479	393138.96	-0.005	-0.037	0.259	-0.006	-0.031	0.010
position:	9480	393142.51	-0.005	-0.059	0.260	-0.005	-0.054	0.011
position:	9481	393146.02	-0.013	-0.051	0.259	-0.013	-0.045	0.010
position:	9482	393149.53	-0.022	-0.040	0.249	-0.023	-0.034	-0.001
position:	9483	393153.06	-0.011	-0.053	0.250	-0.012	-0.048	0.001
position:	9484	393156.56	-0.023	-0.051	0.236	-0.023	-0.045	-0.013
position:	9485	393160.09	-0.013	-0.045	0.237	-0.014	-0.039	-0.012
position:	9486	393163.63	-0.008	-0.028	0.251	-0.009	-0.022	0.002
position:	9487	393167.19	-0.017	-0.038	0.243	-0.018	-0.032	-0.006
position:	9488	393170.73	0.002	-0.036	0.268	0.001	-0.030	0.019
position:	9489	393174.25	-0.012	-0.031	0.272	-0.013	-0.025	0.023
position:	9490	393177.72	-0.013	-0.031	0.264	-0.013	-0.026	0.015
position:	9491	393181.16	-0.003	-0.044	0.254	-0.004	-0.038	0.005
position:	9492	393184.59	-0.003	-0.054	0.269	-0.004	-0.048	0.020
position:	9493	393188.03	-0.012	-0.050	0.231	-0.013	-0.044	-0.018
position:	9494	393191.45	-0.014	-0.042	0.237	-0.015	-0.037	-0.013
position:	9495	393194.84	-0.013	-0.030	0.227	-0.013	-0.024	-0.022

position:	9496	393198.21	-0.003	-0.052	0.254	-0.004	-0.046	0.005
position:	9497	393201.59	0.005	-0.041	0.250	0.004	-0.035	0.001
position:	9498	393204.97	-0.007	-0.029	0.248	-0.007	-0.023	-0.001
position:	9499	393208.36	-0.001	-0.028	0.254	-0.001	-0.022	0.005
position:	9500	393211.78	-0.015	-0.037	0.251	-0.016	-0.032	0.002
position:	9501	393215.20	0.010	-0.046	0.256	0.010	-0.040	0.007
position:	9502	393218.61	-0.008	-0.056	0.247	-0.009	-0.050	-0.002
position:	9503	393222.03	-0.018	-0.049	0.249	-0.019	-0.043	0.000
position:	9504	393225.43	-0.007	-0.040	0.244	-0.008	-0.034	-0.005
position:	9505	393228.82	-0.021	-0.039	0.245	-0.021	-0.033	-0.004
position:	9506	393232.21	-0.023	-0.050	0.235	-0.023	-0.044	-0.014
position:	9507	393235.60	-0.009	-0.042	0.239	-0.009	-0.036	-0.010
position:	9508	393238.98	-0.021	-0.037	0.250	-0.022	-0.031	0.001
position:	9509	393242.36	-0.001	-0.034	0.234	-0.001	-0.028	-0.015
position:	9510	393245.73	-0.014	-0.044	0.238	-0.014	-0.038	-0.011
position:	9511	393249.10	-0.015	-0.048	0.234	-0.016	-0.042	-0.016
position:	9512	393252.48	-0.012	-0.044	0.234	-0.012	-0.038	-0.015
position:	9513	393255.89	0.004	-0.058	0.239	0.003	-0.052	-0.010
position:	9514	393259.30	-0.026	-0.042	0.233	-0.026	-0.037	-0.017
position:	9515	393262.75	-0.016	-0.030	0.225	-0.016	-0.024	-0.024
position:	9411	392746.56	0.000	0.032	0.225	-0.001	0.038	-0.024
position:	9412	392749.25	0.015	0.020	0.225	0.015	0.026	-0.024
position:	9413	392751.96	0.009	0.029	0.234	0.009	0.034	-0.015
position:	9414	392754.69	0.020	0.016	0.237	0.020	0.022	-0.012
position:	9415	392757.43	0.025	0.011	0.245	0.025	0.017	-0.004
position:	9416	392760.18	0.011	0.029	0.215	0.010	0.035	-0.034
position:	9417	392762.93	0.037	0.034	0.232	0.036	0.040	-0.017
position:	9418	392765.70	0.018	0.011	0.219	0.017	0.017	-0.030
position:	9419	392768.48	0.024	0.011	0.214	0.023	0.017	-0.035
position:	9420	392771.27	0.025	0.030	0.223	0.024	0.036	-0.027
position:	9421	392774.07	0.010	0.032	0.232	0.009	0.038	-0.017
position:	9422	392776.86	0.020	0.034	0.217	0.019	0.040	-0.032
position:	9423	392779.66	0.020	0.034	0.228	0.020	0.040	-0.021
position:	9424	392782.43	0.018	0.024	0.207	0.018	0.030	-0.042
position:	9425	392785.16	0.016	0.034	0.235	0.015	0.039	-0.014
position:	9426	392787.88	0.018	0.028	0.251	0.017	0.034	0.002
position:	9427	392790.61	0.016	0.027	0.270	0.015	0.033	0.021
position:	9428	392793.37	0.026	0.011	0.244	0.026	0.017	-0.005
position:	9429	392796.09	0.021	0.019	0.253	0.020	0.025	0.003
position:	9430	392798.80	0.012	0.018	0.247	0.012	0.024	-0.002
position:	9431	392801.52	0.025	0.025	0.247	0.024	0.031	-0.002
position:	9432	392804.25	0.019	0.016	0.236	0.018	0.022	-0.013
position:	9433	392806.99	0.021	0.019	0.235	0.021	0.025	-0.014
position:	9434	392809.72	0.019	0.031	0.242	0.018	0.037	-0.008
position:	9435	392812.46	0.023	0.022	0.223	0.023	0.028	-0.026
position:	9436	392815.20	0.014	0.034	0.226	0.014	0.040	-0.023
position:	9437	392817.95	0.007	0.032	0.248	0.007	0.038	-0.002
position:	9438	392820.71	0.027	0.025	0.233	0.026	0.031	-0.017
position:	9439	392823.47	0.039	0.017	0.240	0.038	0.023	-0.009
position:	9440	392826.24	0.021	0.038	0.239	0.021	0.043	-0.010
position:	9441	392828.99	0.026	0.021	0.244	0.025	0.027	-0.005
position:	9442	392831.74	0.015	0.025	0.248	0.015	0.031	-0.002
position:	9443	392834.49	0.023	0.028	0.230	0.022	0.034	-0.019
position:	9444	392837.23	0.022	0.034	0.254	0.022	0.040	0.005
position:	9445	392839.98	0.017	0.010	0.235	0.016	0.015	-0.014
position:	9446	392842.73	0.016	0.021	0.246	0.016	0.026	-0.003
position:	9447	392845.48	0.022	0.023	0.248	0.021	0.029	-0.001
position:	9448	392848.23	0.026	0.045	0.245	0.025	0.051	-0.004
position:	9449	392850.99	0.017	0.038	0.250	0.017	0.043	0.001
position:	9450	392853.74	0.017	0.027	0.242	0.017	0.033	-0.007
position:	9451	392856.46	0.007	0.035	0.267	0.006	0.040	0.018
position:	9452	392859.18	0.036	0.030	0.253	0.035	0.036	0.004
position:	9453	392861.91	0.024	0.031	0.245	0.023	0.036	-0.004
position:	9454	392864.65	0.014	0.022	0.247	0.014	0.028	-0.002
position:	9455	392867.39	0.036	0.025	0.268	0.035	0.031	0.019
position:	9456	392870.10	0.024	0.032	0.257	0.024	0.038	0.008
position:	9457	392872.83	0.015	0.039	0.252	0.015	0.045	0.003
position:	9458	392875.57	0.013	0.031	0.255	0.012	0.037	0.006
position:	9459	392878.34	0.030	0.039	0.260	0.029	0.044	0.011
position:	9460	392881.11	0.022	0.026	0.266	0.021	0.032	0.017
position:	9461	392883.88	0.019	0.016	0.259	0.019	0.022	0.010
position:	9316	392257.60	0.005	-0.047	0.260	0.004	-0.042	0.011
position:	9317	392260.91	0.000	-0.050	0.252	-0.001	-0.044	0.003
position:	9318	392264.26	-0.006	-0.059	0.250	-0.007	-0.054	0.001
position:	9319	392267.65	0.000	-0.045	0.268	-0.001	-0.039	0.019
position:	9320	392271.07	-0.029	-0.045	0.262	-0.030	-0.039	0.013
position:	9321	392274.53	-0.016	-0.033	0.252	-0.016	-0.027	0.003
position:	9322	392278.03	-0.025	-0.036	0.279	-0.026	-0.030	0.030
position:	9323	392281.56	-0.019	-0.049	0.291	-0.020	-0.043	0.042
position:	9324	392285.15	-0.016	-0.056	0.275	-0.017	-0.050	0.026
position:	9325	392288.79	-0.025	-0.059	0.274	-0.025	-0.053	0.025
position:	9326	392292.49	-0.008	-0.051	0.285	-0.008	-0.046	0.035
position:	9327	392296.22	-0.022	-0.032	0.274	-0.022	-0.026	0.025
position:	9328	392299.99	0.004	-0.044	0.287	0.003	-0.038	0.038
position:	9329	392303.77	0.005	-0.061	0.289	0.005	-0.056	0.040
position:	9330	392307.53	0.007	-0.061	0.270	0.006	-0.055	0.021
position:	9331	392311.26	-0.007	-0.041	0.271	-0.008	-0.036	0.022
position:	9332	392314.94	-0.004	-0.050	0.266	-0.004	-0.044	0.017
position:	9333	392318.58	-0.015	-0.052	0.259	-0.016	-0.046	0.010
position:	9334	392322.19	-0.016	-0.074	0.257	-0.017	-0.069	0.008
position:	9335	392325.78	0.003	-0.056	0.267	0.003	-0.050	0.018
position:	9336	392329.34	-0.013	-0.047	0.251	-0.014	-0.042	0.002

position:	9337	392332.89	-0.012	-0.047	0.248	-0.013	-0.041	-0.002
position:	9338	392336.41	-0.012	-0.060	0.241	-0.013	-0.054	-0.008
position:	9339	392339.92	-0.016	-0.045	0.256	-0.017	-0.039	0.007
position:	9340	392343.42	-0.006	-0.039	0.260	-0.006	-0.033	0.011
position:	9341	392346.92	-0.004	-0.047	0.263	-0.004	-0.041	0.014
position:	9342	392350.43	0.002	-0.033	0.277	0.001	-0.027	0.028
position:	9343	392353.93	-0.022	-0.034	0.253	-0.022	-0.028	0.004
position:	9344	392357.40	0.010	-0.052	0.269	0.009	-0.046	0.020
position:	9345	392360.82	-0.007	-0.048	0.259	-0.008	-0.042	0.010
position:	9346	392364.22	-0.006	-0.045	0.240	-0.007	-0.039	-0.009
position:	9347	392367.60	-0.014	-0.031	0.247	-0.014	-0.025	-0.002
position:	9348	392370.96	-0.006	-0.039	0.227	-0.007	-0.033	-0.023
position:	9349	392374.30	-0.021	-0.036	0.229	-0.021	-0.031	-0.020
position:	9350	392377.62	0.006	-0.049	0.255	0.006	-0.043	0.005
position:	9351	392380.97	-0.005	-0.024	0.221	-0.005	-0.018	-0.028
position:	9352	392384.31	-0.003	-0.037	0.229	-0.004	-0.031	-0.020
position:	9353	392387.61	-0.008	-0.054	0.229	-0.009	-0.048	-0.021
position:	9354	392390.90	-0.013	-0.061	0.227	-0.013	-0.055	-0.022
position:	9355	392394.21	0.000	-0.054	0.224	-0.001	-0.048	-0.025
position:	9356	392397.52	-0.025	-0.050	0.223	-0.026	-0.045	-0.026
position:	9357	392400.80	-0.010	-0.057	0.215	-0.011	-0.051	-0.034
position:	9358	392404.08	-0.023	-0.056	0.200	-0.024	-0.050	-0.049
position:	9359	392407.34	-0.012	-0.048	0.209	-0.012	-0.042	-0.040
position:	9360	392410.61	-0.021	-0.052	0.226	-0.022	-0.046	-0.023
position:	9361	392413.88	-0.012	-0.051	0.215	-0.012	-0.045	-0.034
position:	9362	392417.16	0.006	-0.054	0.238	0.005	-0.048	-0.011
position:	9363	392420.45	-0.006	-0.038	0.234	-0.006	-0.032	-0.015
position:	9364	392423.74	-0.016	-0.043	0.210	-0.016	-0.037	-0.039
position:	9365	392427.02	-0.014	-0.030	0.223	-0.014	-0.024	-0.026
position:	9366	392430.30	-0.024	-0.039	0.225	-0.025	-0.033	-0.024
position:	9261	391902.98	0.005	0.043	0.257	0.004	0.049	0.008
position:	9262	391905.89	0.014	0.034	0.223	0.013	0.040	-0.026
position:	9263	391908.80	-0.001	0.030	0.231	-0.001	0.036	-0.018
position:	9264	391911.70	0.017	0.020	0.239	0.017	0.025	-0.010
position:	9265	391914.59	0.023	0.025	0.248	0.022	0.031	-0.002
position:	9266	391917.46	0.019	0.023	0.229	0.019	0.029	-0.020
position:	9267	391920.30	0.010	0.024	0.240	0.010	0.030	-0.009
position:	9268	391923.13	0.018	0.018	0.222	0.017	0.023	-0.027
position:	9269	391925.93	0.028	0.021	0.244	0.028	0.027	-0.005
position:	9270	391928.72	0.012	0.020	0.224	0.011	0.026	-0.025
position:	9271	391931.50	0.007	0.028	0.236	0.006	0.034	-0.014
position:	9272	391934.27	0.008	0.034	0.249	0.008	0.040	0.000
position:	9273	391937.04	0.016	0.024	0.249	0.016	0.029	0.000
position:	9274	391939.78	0.028	0.027	0.250	0.028	0.032	0.000
position:	9275	391942.53	0.026	0.036	0.233	0.025	0.041	-0.016
position:	9276	391945.28	0.021	0.032	0.253	0.020	0.038	0.004
position:	9277	391948.02	0.017	0.028	0.234	0.016	0.034	-0.015
position:	9278	391950.76	0.028	0.026	0.240	0.027	0.032	-0.009
position:	9279	391953.48	0.009	0.028	0.239	0.008	0.033	-0.010
position:	9280	391956.18	0.014	0.040	0.256	0.013	0.046	0.007
position:	9281	391958.87	0.019	0.024	0.254	0.018	0.030	0.005
position:	9282	391961.59	0.013	0.031	0.269	0.012	0.037	0.020
position:	9283	391964.31	0.030	0.034	0.245	0.030	0.040	-0.004
position:	9284	391967.06	0.013	0.031	0.234	0.012	0.037	-0.015
position:	9285	391969.81	0.008	0.041	0.247	0.007	0.047	-0.002
position:	9286	391972.58	0.015	0.047	0.245	0.014	0.052	-0.004
position:	9287	391975.37	0.012	0.052	0.240	0.012	0.058	-0.010
position:	9288	391978.16	-0.003	0.052	0.250	-0.004	0.058	0.001
position:	9289	391980.94	0.026	0.047	0.248	0.026	0.052	-0.001
position:	9290	391983.72	0.026	0.033	0.275	0.026	0.039	0.026
position:	9291	391986.49	0.021	0.042	0.237	0.021	0.048	-0.012
position:	9292	391989.26	0.018	0.041	0.261	0.017	0.047	0.012
position:	9293	391992.02	0.013	0.037	0.258	0.012	0.043	0.009
position:	9294	391994.79	0.008	0.028	0.270	0.007	0.034	0.020
position:	9295	391997.54	0.005	0.037	0.265	0.005	0.043	0.016
position:	9296	392000.29	0.013	0.035	0.277	0.013	0.041	0.028
position:	9297	392003.06	-0.002	0.041	0.261	-0.003	0.047	0.012
position:	9298	392005.85	0.006	0.026	0.258	0.006	0.032	0.009
position:	9299	392008.67	0.021	0.040	0.249	0.021	0.045	0.000
position:	9300	392011.50	0.011	0.034	0.252	0.011	0.040	0.003
position:	9301	392014.34	0.005	0.033	0.267	0.005	0.039	0.018
position:	9302	392017.18	0.021	0.040	0.273	0.021	0.046	0.024
position:	9303	392020.04	0.009	0.027	0.265	0.008	0.033	0.016
position:	9304	392022.89	0.017	0.050	0.248	0.016	0.056	-0.001
position:	9305	392025.76	0.012	0.038	0.249	0.011	0.043	0.000
position:	9306	392028.64	0.015	0.058	0.228	0.014	0.064	-0.021
position:	9307	392031.53	0.009	0.059	0.241	0.009	0.064	-0.008
position:	9308	392034.44	0.013	0.036	0.245	0.013	0.041	-0.004
position:	9309	392037.35	0.015	0.031	0.227	0.015	0.037	-0.022
position:	9310	392040.22	0.006	0.030	0.227	0.005	0.035	-0.022
position:	9311	392043.09	0.016	0.021	0.232	0.016	0.027	-0.017
position:	9184	391145.98	-0.012	-0.032	0.232	-0.012	-0.026	-0.017
position:	9185	391149.25	-0.015	-0.020	0.249	-0.015	-0.014	0.000
position:	9186	391152.49	-0.023	-0.009	0.256	-0.024	-0.003	0.007
position:	9187	391155.73	-0.016	-0.038	0.254	-0.016	-0.032	0.005
position:	9188	391158.97	-0.024	-0.028	0.253	-0.024	-0.022	0.004
position:	9189	391162.23	-0.028	-0.029	0.263	-0.028	-0.023	0.014
position:	9190	391165.52	-0.025	-0.015	0.252	-0.026	-0.009	0.003
position:	9191	391168.83	-0.005	-0.029	0.289	-0.006	-0.023	0.040
position:	9192	391172.19	-0.010	-0.024	0.284	-0.010	-0.019	0.034
position:	9193	391175.56	0.002	-0.033	0.280	0.002	-0.028	0.031
position:	9194	391178.92	-0.005	-0.022	0.274	-0.006	-0.016	0.025

position:	9195	391182.32	-0.007	-0.034	0.281	-0.007	-0.028	0.032
position:	9196	391185.75	-0.020	-0.033	0.271	-0.020	-0.027	0.022
position:	9197	391189.22	-0.009	-0.054	0.258	-0.009	-0.048	0.009
position:	9198	391192.73	-0.003	-0.055	0.264	-0.004	-0.049	0.015
position:	9199	391196.27	-0.007	-0.040	0.255	-0.008	-0.034	0.006
position:	9200	391199.83	-0.022	-0.033	0.276	-0.023	-0.027	0.027
position:	9201	391203.37	-0.021	-0.041	0.263	-0.022	-0.035	0.014
position:	9202	391206.91	-0.006	-0.044	0.277	-0.007	-0.038	0.027
position:	9203	391210.42	-0.010	-0.024	0.266	-0.011	-0.018	0.016
position:	9204	391213.92	-0.018	-0.021	0.247	-0.018	-0.015	-0.002
position:	9205	391217.44	-0.011	-0.051	0.255	-0.012	-0.045	0.005
position:	9206	391220.96	-0.027	-0.056	0.269	-0.028	-0.050	0.019
position:	9207	391224.47	-0.002	-0.046	0.257	-0.003	-0.041	0.008
position:	9208	391227.98	-0.032	-0.033	0.265	-0.033	-0.028	0.016
position:	9209	391231.51	-0.026	-0.030	0.268	-0.026	-0.024	0.019
position:	9210	391235.06	-0.027	-0.024	0.272	-0.027	-0.018	0.022
position:	9211	391238.63	-0.017	-0.035	0.251	-0.017	-0.030	0.002
position:	9212	391242.21	-0.016	-0.014	0.294	-0.017	-0.008	0.045
position:	9213	391245.77	-0.010	-0.035	0.284	-0.011	-0.029	0.035
position:	9214	391249.29	-0.023	-0.036	0.274	-0.024	-0.030	0.025
position:	9215	391252.76	-0.008	-0.041	0.287	-0.009	-0.036	0.037
position:	9216	391256.20	-0.029	-0.039	0.276	-0.030	-0.033	0.027
position:	9217	391259.64	-0.021	-0.029	0.276	-0.022	-0.023	0.027
position:	9218	391263.07	-0.025	-0.024	0.263	-0.026	-0.018	0.014
position:	9219	391266.51	-0.021	-0.024	0.262	-0.022	-0.018	0.012
position:	9220	391269.92	-0.015	-0.023	0.257	-0.015	-0.017	0.008
position:	9221	391273.30	-0.003	-0.029	0.262	-0.004	-0.024	0.012
position:	9222	391276.65	-0.028	-0.025	0.251	-0.028	-0.019	0.002
position:	9223	391280.03	-0.012	-0.019	0.234	-0.012	-0.013	-0.015
position:	9224	391283.42	0.011	-0.047	0.273	0.011	-0.042	0.024
position:	9225	391286.82	-0.006	-0.034	0.260	-0.007	-0.028	0.011
position:	9226	391290.23	-0.028	-0.028	0.261	-0.028	-0.022	0.012
position:	9227	391293.62	-0.009	-0.034	0.269	-0.009	-0.029	0.019
position:	9228	391296.99	-0.016	-0.033	0.262	-0.017	-0.027	0.013
position:	9229	391300.31	-0.013	-0.040	0.253	-0.013	-0.034	0.003
position:	9230	391303.62	0.000	-0.051	0.242	0.000	-0.045	-0.007
position:	9231	391306.90	-0.004	-0.046	0.251	-0.005	-0.041	0.002
position:	9232	391310.18	-0.011	-0.048	0.246	-0.011	-0.042	-0.004
position:	9233	391313.43	-0.011	-0.058	0.259	-0.011	-0.053	0.010
position:	9234	391316.67	-0.009	-0.042	0.243	-0.010	-0.036	-0.006
position:	9124	390728.09	0.010	0.003	0.249	0.010	0.009	0.000
position:	9125	390730.93	0.010	-0.001	0.231	0.010	0.005	-0.018
position:	9126	390733.74	0.014	0.009	0.251	0.014	0.014	0.002
position:	9127	390736.53	0.013	0.013	0.239	0.012	0.018	-0.010
position:	9128	390739.31	0.018	0.013	0.250	0.017	0.018	0.001
position:	9129	390742.10	0.003	0.017	0.257	0.002	0.022	0.008
position:	9130	390744.91	0.012	0.011	0.257	0.011	0.016	0.008
position:	9131	390747.71	0.013	0.012	0.254	0.012	0.018	0.005
position:	9132	390750.52	0.014	0.018	0.253	0.014	0.024	0.003
position:	9133	390753.33	-0.003	0.026	0.260	-0.004	0.032	0.011
position:	9134	390756.15	0.001	0.022	0.253	0.001	0.028	0.004
position:	9135	390758.97	-0.003	0.033	0.259	-0.004	0.039	0.010
position:	9136	390761.81	0.007	0.022	0.258	0.006	0.028	0.009
position:	9137	390764.63	0.013	0.007	0.271	0.012	0.013	0.021
position:	9138	390767.43	0.013	0.012	0.273	0.012	0.018	0.023
position:	9139	390770.23	0.006	0.013	0.261	0.005	0.019	0.012
position:	9140	390773.03	0.011	0.009	0.257	0.010	0.015	0.008
position:	9141	390775.83	-0.006	0.028	0.271	-0.007	0.033	0.022
position:	9142	390778.62	-0.006	0.033	0.275	-0.007	0.039	0.026
position:	9143	390781.41	0.005	0.011	0.272	0.004	0.017	0.023
position:	9144	390784.21	0.003	0.015	0.267	0.003	0.020	0.018
position:	9145	390787.04	0.010	0.018	0.256	0.010	0.024	0.007
position:	9146	390789.91	0.008	0.031	0.258	0.008	0.037	0.009
position:	9147	390792.80	-0.002	0.029	0.254	-0.003	0.034	0.005
position:	9148	390795.71	0.009	0.016	0.262	0.008	0.021	0.013
position:	9149	390798.62	-0.005	0.042	0.248	-0.006	0.047	-0.001
position:	9150	390801.53	-0.019	0.047	0.283	-0.019	0.053	0.034
position:	9151	390804.44	0.018	0.041	0.262	0.018	0.047	0.013
position:	9152	390807.34	0.029	0.027	0.266	0.028	0.032	0.017
position:	9153	390810.22	0.026	0.019	0.268	0.025	0.024	0.019
position:	9154	390813.12	0.008	0.030	0.277	0.008	0.036	0.028
position:	9155	390816.00	0.003	0.063	0.267	0.003	0.069	0.018
position:	9156	390818.88	0.014	0.034	0.269	0.013	0.040	0.020
position:	9157	390821.75	0.005	0.025	0.261	0.005	0.031	0.012
position:	9158	390824.62	0.011	0.034	0.257	0.011	0.039	0.008
position:	9159	390827.48	0.016	0.041	0.240	0.015	0.046	-0.009
position:	9160	390830.34	0.001	0.016	0.248	0.000	0.021	-0.001
position:	9161	390833.18	0.007	0.056	0.279	0.006	0.062	0.030
position:	9162	390836.01	0.006	0.018	0.260	0.005	0.024	0.011
position:	9163	390838.83	0.011	0.013	0.241	0.011	0.019	-0.008
position:	9164	390841.64	-0.009	0.022	0.270	-0.010	0.028	0.021
position:	9165	390844.47	0.008	0.016	0.249	0.008	0.021	0.000
position:	9166	390847.31	0.010	0.017	0.253	0.010	0.023	0.003
position:	9167	390850.15	0.015	0.028	0.221	0.014	0.033	-0.029
position:	9168	390852.98	0.005	0.033	0.248	0.004	0.038	-0.001
position:	9169	390855.79	-0.007	0.043	0.266	-0.008	0.049	0.017
position:	9170	390858.59	0.000	0.042	0.244	-0.001	0.048	-0.005
position:	9171	390861.40	-0.002	0.042	0.210	-0.003	0.047	-0.040
position:	9172	390864.20	-0.001	0.040	0.241	-0.002	0.046	-0.008
position:	9173	390866.98	0.008	0.027	0.237	0.007	0.032	-0.012
position:	9174	390869.74	0.011	0.027	0.236	0.010	0.033	-0.013
position:	9059	390328.72	-0.013	-0.014	0.227	-0.014	-0.008	-0.022

position:	9060	390332.11	-0.016	-0.014	0.230	-0.016	-0.009	-0.019
position:	9061	390335.48	-0.017	-0.028	0.231	-0.017	-0.023	-0.019
position:	9062	390338.81	-0.021	-0.025	0.229	-0.022	-0.020	-0.020
position:	9063	390342.15	-0.009	-0.028	0.225	-0.010	-0.022	-0.024
position:	9064	390345.45	-0.013	-0.012	0.223	-0.014	-0.006	-0.026
position:	9065	390348.72	-0.006	-0.018	0.226	-0.007	-0.012	-0.024
position:	9066	390351.96	-0.016	-0.013	0.233	-0.017	-0.007	-0.016
position:	9067	390355.17	-0.021	-0.039	0.227	-0.021	-0.033	-0.022
position:	9068	390358.39	-0.025	-0.045	0.212	-0.025	-0.039	-0.037
position:	9069	390361.62	-0.020	-0.027	0.225	-0.021	-0.021	-0.024
position:	9070	390364.88	-0.028	-0.020	0.224	-0.028	-0.014	-0.025
position:	9071	390368.18	-0.016	-0.019	0.229	-0.016	-0.013	-0.020
position:	9072	390371.51	-0.005	-0.027	0.250	-0.006	-0.021	0.001
position:	9073	390374.88	-0.004	-0.032	0.257	-0.005	-0.026	0.008
position:	9074	390378.29	-0.016	-0.034	0.251	-0.017	-0.028	0.002
position:	9075	390381.72	-0.005	-0.041	0.260	-0.006	-0.036	0.011
position:	9076	390385.16	-0.014	-0.033	0.282	-0.015	-0.027	0.033
position:	9077	390388.60	-0.006	-0.053	0.283	-0.007	-0.047	0.034
position:	9078	390392.01	-0.023	-0.040	0.274	-0.024	-0.034	0.025
position:	9079	390395.41	-0.015	-0.020	0.286	-0.016	-0.014	0.037
position:	9080	390398.79	-0.007	-0.040	0.290	-0.007	-0.035	0.041
position:	9081	390402.18	-0.018	-0.036	0.271	-0.018	-0.030	0.022
position:	9082	390405.57	-0.022	-0.038	0.269	-0.023	-0.032	0.020
position:	9083	390408.97	-0.011	-0.021	0.266	-0.012	-0.015	0.017
position:	9084	390412.36	-0.013	-0.026	0.274	-0.014	-0.020	0.025
position:	9085	390415.73	-0.010	-0.023	0.244	-0.010	-0.017	-0.005
position:	9086	390419.07	-0.008	-0.014	0.271	-0.009	-0.008	0.022
position:	9087	390422.43	0.000	-0.028	0.275	0.000	-0.022	0.025
position:	9088	390425.80	-0.013	-0.019	0.262	-0.013	-0.014	0.013
position:	9089	390429.18	-0.004	-0.019	0.260	-0.005	-0.013	0.011
position:	9090	390432.56	-0.007	-0.026	0.258	-0.008	-0.020	0.009
position:	9091	390435.98	0.005	-0.025	0.270	0.005	-0.019	0.021
position:	9092	390439.40	-0.014	-0.026	0.265	-0.014	-0.021	0.016
position:	9093	390442.83	-0.008	-0.030	0.255	-0.008	-0.024	0.005
position:	9094	390446.25	-0.004	-0.026	0.264	-0.005	-0.020	0.015
position:	9095	390449.65	-0.005	-0.025	0.251	-0.006	-0.019	0.002
position:	9096	390453.04	-0.017	-0.030	0.257	-0.018	-0.024	0.008
position:	9097	390456.45	-0.015	-0.023	0.278	-0.015	-0.017	0.029
position:	9098	390459.89	-0.021	-0.029	0.250	-0.022	-0.024	0.001
position:	9099	390463.34	0.001	-0.044	0.272	0.001	-0.039	0.023
position:	9100	390466.79	-0.009	-0.038	0.273	-0.010	-0.033	0.024
position:	9101	390470.25	-0.014	-0.028	0.265	-0.014	-0.022	0.016
position:	9102	390473.71	-0.008	-0.028	0.263	-0.009	-0.022	0.013
position:	9103	390477.17	0.000	-0.046	0.280	-0.001	-0.040	0.031
position:	9104	390480.61	-0.006	-0.035	0.255	-0.007	-0.029	0.006
position:	9105	390484.03	-0.002	-0.029	0.243	-0.003	-0.023	-0.006
position:	9106	390487.44	-0.001	-0.038	0.261	-0.002	-0.033	0.012
position:	9107	390490.86	-0.023	-0.043	0.230	-0.023	-0.037	-0.019
position:	9108	390494.25	-0.006	-0.034	0.235	-0.007	-0.029	-0.014
position:	9109	390497.63	-0.003	-0.049	0.232	-0.003	-0.044	-0.017
position:	8993	389847.20	0.004	0.004	0.248	0.003	0.010	-0.002
position:	8994	389849.97	0.008	0.019	0.244	0.008	0.024	-0.005
position:	8995	389852.73	0.011	0.017	0.253	0.010	0.023	0.004
position:	8996	389855.48	0.016	0.024	0.256	0.016	0.030	0.007
position:	8997	389858.22	0.018	0.020	0.257	0.018	0.026	0.008
position:	8998	389860.97	0.019	0.013	0.248	0.019	0.019	-0.001
position:	8999	389863.70	0.004	0.024	0.259	0.003	0.030	0.010
position:	9000	389866.44	0.009	0.016	0.265	0.008	0.021	0.016
position:	9001	389869.19	0.014	0.025	0.260	0.014	0.030	0.011
position:	9002	389871.95	0.016	0.020	0.246	0.016	0.026	-0.003
position:	9003	389874.73	0.004	0.023	0.248	0.003	0.028	-0.001
position:	9004	389877.53	0.007	0.017	0.251	0.006	0.023	0.001
position:	9005	389880.34	0.001	0.036	0.279	0.000	0.042	0.030
position:	9006	389883.16	0.016	0.018	0.274	0.015	0.024	0.025
position:	9007	389886.00	0.013	0.035	0.252	0.012	0.041	0.003
position:	9008	389888.85	0.014	0.052	0.262	0.013	0.058	0.012
position:	9009	389891.71	0.013	0.031	0.237	0.012	0.036	-0.012
position:	9010	389894.59	-0.005	0.037	0.253	-0.006	0.042	0.004
position:	9011	389897.49	-0.003	0.035	0.245	-0.004	0.041	-0.004
position:	9012	389900.40	0.006	0.025	0.249	0.005	0.031	0.000
position:	9013	389903.33	-0.002	0.014	0.252	-0.003	0.020	0.003
position:	9014	389906.26	0.004	0.035	0.259	0.003	0.041	0.010
position:	9015	389909.18	0.001	0.029	0.253	0.000	0.035	0.004
position:	9016	389912.08	0.013	0.012	0.258	0.012	0.018	0.009
position:	9017	389914.96	0.001	0.017	0.248	0.001	0.023	-0.001
position:	9018	389917.82	0.022	0.014	0.241	0.022	0.020	-0.008
position:	9019	389920.68	-0.003	0.039	0.252	-0.004	0.045	0.003
position:	9020	389923.51	0.002	0.027	0.249	0.001	0.033	-0.001
position:	9021	389926.33	-0.006	0.038	0.250	-0.007	0.044	0.001
position:	9022	389929.13	-0.004	0.026	0.259	-0.005	0.032	0.010
position:	9023	389931.94	0.013	0.017	0.255	0.012	0.023	0.006
position:	9024	389934.72	0.013	0.028	0.234	0.012	0.034	-0.015
position:	9025	389937.49	0.004	0.020	0.223	0.003	0.026	-0.026
position:	9026	389940.22	0.004	0.024	0.237	0.003	0.030	-0.012
position:	9027	389942.95	0.000	0.002	0.232	-0.001	0.008	-0.017
position:	9028	389945.65	0.008	0.004	0.249	0.008	0.010	0.000
position:	9029	389948.35	0.018	0.029	0.233	0.018	0.035	-0.016
position:	9030	389951.04	0.002	0.039	0.229	0.001	0.045	-0.021
position:	9031	389953.72	0.003	0.045	0.239	0.002	0.051	-0.010
position:	9032	389956.41	0.007	0.037	0.223	0.006	0.043	-0.026
position:	9033	389959.11	0.008	0.038	0.236	0.008	0.044	-0.013
position:	9034	389961.82	0.003	0.029	0.218	0.002	0.035	-0.031

position:	9035	389964.53	0.004	0.020	0.237	0.003	0.026	-0.012
position:	9036	389967.22	0.017	0.036	0.205	0.016	0.042	-0.044
position:	9037	389969.92	0.010	0.028	0.195	0.010	0.034	-0.054
position:	9038	389972.61	0.006	0.034	0.217	0.005	0.040	-0.032
position:	9039	389975.29	0.006	0.034	0.228	0.006	0.040	-0.021
position:	9040	389977.96	0.017	0.029	0.222	0.016	0.035	-0.027
position:	9041	389980.62	0.017	0.024	0.211	0.016	0.029	-0.038
position:	9042	389983.28	0.013	0.028	0.212	0.012	0.034	-0.037
position:	9043	389985.93	-0.003	0.023	0.230	-0.004	0.029	-0.019
position:	8933	389457.22	-0.008	-0.029	0.221	-0.008	-0.024	-0.028
position:	8934	389460.58	-0.006	-0.022	0.209	-0.006	-0.016	-0.040
position:	8935	389463.94	-0.003	-0.045	0.235	-0.003	-0.039	-0.014
position:	8936	389467.31	-0.024	-0.043	0.245	-0.025	-0.037	-0.004
position:	8937	389470.65	-0.015	-0.028	0.228	-0.016	-0.023	-0.021
position:	8938	389473.96	-0.013	-0.029	0.229	-0.014	-0.024	-0.020
position:	8939	389477.23	-0.014	-0.037	0.237	-0.015	-0.031	-0.012
position:	8940	389480.47	-0.008	-0.014	0.232	-0.008	-0.008	-0.017
position:	8941	389483.70	-0.011	-0.036	0.239	-0.011	-0.030	-0.011
position:	8942	389486.92	-0.021	-0.026	0.227	-0.021	-0.020	-0.022
position:	8943	389490.13	-0.017	-0.028	0.248	-0.017	-0.022	-0.002
position:	8944	389493.32	-0.001	-0.023	0.226	-0.001	-0.017	-0.023
position:	8945	389496.52	-0.004	-0.031	0.247	-0.005	-0.025	-0.002
position:	8946	389499.73	-0.008	-0.026	0.242	-0.009	-0.020	-0.008
position:	8947	389502.98	-0.010	-0.031	0.254	-0.010	-0.025	0.004
position:	8948	389506.21	-0.004	-0.040	0.256	-0.004	-0.034	0.007
position:	8949	389509.43	-0.010	-0.038	0.255	-0.010	-0.032	0.006
position:	8950	389512.66	-0.018	-0.027	0.247	-0.019	-0.021	-0.002
position:	8951	389515.88	-0.014	-0.038	0.250	-0.014	-0.032	0.001
position:	8952	389519.11	-0.016	-0.041	0.251	-0.017	-0.035	0.002
position:	8953	389522.34	-0.005	-0.041	0.274	-0.006	-0.035	0.025
position:	8954	389525.57	-0.011	-0.027	0.265	-0.012	-0.021	0.016
position:	8955	389528.78	-0.008	-0.027	0.256	-0.009	-0.021	0.007
position:	8956	389531.97	-0.012	-0.026	0.243	-0.012	-0.020	-0.006
position:	8957	389535.17	-0.009	-0.031	0.252	-0.010	-0.026	0.002
position:	8958	389538.34	-0.007	-0.019	0.229	-0.008	-0.013	-0.020
position:	8959	389541.51	-0.002	-0.024	0.267	-0.002	-0.018	0.018
position:	8960	389544.67	-0.010	-0.010	0.257	-0.011	-0.004	0.008
position:	8961	389547.82	0.003	-0.043	0.265	0.003	-0.037	0.015
position:	8962	389550.96	-0.005	-0.030	0.252	-0.005	-0.025	0.003
position:	8963	389554.11	-0.011	-0.025	0.238	-0.012	-0.019	-0.012
position:	8964	389557.26	-0.018	-0.027	0.255	-0.019	-0.022	0.006
position:	8965	389560.42	-0.012	-0.031	0.262	-0.013	-0.025	0.012
position:	8966	389563.60	-0.007	-0.038	0.249	-0.008	-0.032	0.000
position:	8967	389566.79	-0.010	-0.022	0.246	-0.011	-0.016	-0.003
position:	8968	389569.99	-0.008	-0.024	0.256	-0.009	-0.018	0.007
position:	8969	389573.22	-0.014	-0.021	0.268	-0.015	-0.015	0.019
position:	8970	389576.48	-0.009	-0.021	0.264	-0.010	-0.015	0.014
position:	8971	389579.74	0.003	-0.047	0.271	0.003	-0.041	0.021
position:	8972	389583.01	-0.003	-0.033	0.261	-0.004	-0.028	0.012
position:	8973	389586.31	-0.013	-0.038	0.268	-0.014	-0.032	0.019
position:	8974	389589.64	-0.007	-0.036	0.282	-0.007	-0.030	0.033
position:	8975	389592.99	-0.014	-0.017	0.261	-0.014	-0.011	0.012
position:	8976	389596.34	-0.007	-0.033	0.287	-0.008	-0.027	0.038
position:	8977	389599.73	-0.004	-0.041	0.287	-0.005	-0.036	0.038
position:	8978	389603.16	-0.009	-0.031	0.262	-0.009	-0.025	0.013
position:	8979	389606.60	0.001	-0.025	0.257	0.000	-0.019	0.008
position:	8980	389610.05	0.016	-0.057	0.278	0.016	-0.051	0.029
position:	8981	389613.50	-0.002	-0.038	0.268	-0.002	-0.032	0.019
position:	8982	389616.97	-0.004	-0.030	0.256	-0.005	-0.025	0.007
position:	8983	389620.44	-0.007	-0.029	0.258	-0.008	-0.023	0.009
position:	8861	388988.94	0.004	0.008	0.226	0.004	0.014	-0.023
position:	8862	388991.56	0.000	0.006	0.225	-0.001	0.012	-0.024
position:	8863	388994.20	0.007	0.008	0.231	0.006	0.014	-0.018
position:	8864	388996.85	-0.002	0.015	0.240	-0.003	0.020	-0.009
position:	8865	388999.53	0.002	0.008	0.237	0.001	0.014	-0.013
position:	8866	389002.23	0.000	0.009	0.254	-0.001	0.015	-0.004
position:	8867	389004.95	0.008	0.004	0.246	0.007	0.010	-0.003
position:	8868	389007.69	0.003	0.006	0.241	0.002	0.012	-0.008
position:	8869	389010.44	0.004	0.007	0.255	0.003	0.013	0.005
position:	8870	389013.19	0.001	0.009	0.238	0.000	0.014	-0.011
position:	8871	389015.96	0.002	0.013	0.230	0.002	0.018	-0.019
position:	8872	389018.72	-0.004	0.012	0.246	-0.005	0.017	-0.003
position:	8873	389021.49	0.002	0.003	0.232	0.002	0.009	-0.017
position:	8874	389024.25	0.003	0.011	0.216	0.003	0.017	-0.034
position:	8875	389027.00	0.002	0.013	0.218	0.002	0.019	-0.031
position:	8876	389029.76	0.015	0.034	0.215	0.014	0.040	-0.035
position:	8877	389032.52	-0.004	0.021	0.212	-0.005	0.027	-0.037
position:	8878	389035.27	0.010	0.021	0.221	0.009	0.027	-0.029
position:	8879	389037.99	0.013	0.030	0.216	0.012	0.036	-0.033
position:	8880	389040.69	0.005	0.015	0.223	0.005	0.021	-0.026
position:	8881	389043.38	0.002	0.019	0.236	0.002	0.024	-0.013
position:	8882	389046.04	0.003	0.009	0.211	0.003	0.015	-0.038
position:	8883	389048.69	-0.002	0.001	0.250	-0.002	0.007	0.000
position:	8884	389051.32	0.002	0.006	0.226	0.002	0.012	-0.023
position:	8885	389053.95	-0.002	0.013	0.248	-0.003	0.019	-0.001
position:	8886	389056.57	0.002	0.013	0.221	0.001	0.019	-0.028
position:	8887	389059.18	-0.004	0.014	0.239	-0.005	0.020	-0.010
position:	8888	389061.77	-0.005	0.005	0.218	-0.005	0.011	-0.031
position:	8889	389064.36	-0.012	0.021	0.226	-0.013	0.027	-0.023
position:	8890	389066.94	-0.003	0.005	0.227	-0.003	0.011	-0.022
position:	8891	389069.53	0.005	0.020	0.212	0.004	0.026	-0.037
position:	8892	389072.11	0.000	0.016	0.220	-0.001	0.022	-0.029

position:	8893	389074.69	-0.002	0.009	0.203	-0.002	0.014	-0.046
position:	8894	389077.29	-0.004	0.017	0.225	-0.004	0.022	-0.024
position:	8895	389079.91	0.013	-0.002	0.220	0.012	0.004	-0.030
position:	8896	389082.54	-0.009	0.013	0.219	-0.010	0.019	-0.030
position:	8897	389085.18	-0.004	0.017	0.206	-0.004	0.022	-0.043
position:	8898	389087.82	-0.007	0.015	0.220	-0.007	0.021	-0.029
position:	8899	389090.47	0.002	0.001	0.225	0.001	0.007	-0.024
position:	8900	389093.12	-0.004	0.018	0.218	-0.005	0.023	-0.032
position:	8901	389095.74	0.000	0.005	0.222	0.000	0.011	-0.027
position:	8902	389098.37	-0.003	0.018	0.211	-0.004	0.023	-0.038
position:	8903	389101.01	-0.003	0.018	0.192	-0.004	0.024	-0.057
position:	8904	389103.63	-0.006	0.021	0.227	-0.007	0.027	-0.022
position:	8905	389106.25	-0.003	0.021	0.200	-0.003	0.027	-0.049
position:	8906	389108.89	-0.003	0.018	0.206	-0.003	0.023	-0.043
position:	8907	389111.55	-0.013	0.016	0.209	-0.013	0.022	-0.040
position:	8908	389114.22	0.001	0.014	0.224	0.000	0.019	-0.025
position:	8909	389116.90	0.004	0.029	0.208	0.003	0.035	-0.042
position:	8910	389119.57	0.004	0.017	0.205	0.003	0.023	-0.045
position:	8911	389122.23	-0.003	0.008	0.206	-0.003	0.014	-0.043

Average position offset:

East: 0.001 m

North: -0.006 m

Alt: 0.249 m

Position offset RMS:

East: 0.014 m

North: 0.033 m

Alt: 0.020 m

Misalignment angles for the single events [deg]:

number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle: 9680	394112.26	-0.1311	-0.0782	-89.7543	-0.0016	0.0011	-0.0031
angle: 9681	394116.08	-0.1309	-0.0782	-89.7541	-0.0014	0.0011	-0.0029
angle: 9682	394119.83	-0.1306	-0.0782	-89.7542	-0.0012	0.0012	-0.0030
angle: 9683	394123.55	-0.1301	-0.0775	-89.7542	-0.0006	0.0018	-0.0030
angle: 9684	394127.24	-0.1301	-0.0776	-89.7538	-0.0007	0.0017	-0.0025
angle: 9685	394130.90	-0.1297	-0.0776	-89.7537	-0.0002	0.0017	-0.0025
angle: 9686	394134.49	-0.1299	-0.0776	-89.7537	-0.0004	0.0017	-0.0025
angle: 9687	394138.06	-0.1300	-0.0773	-89.7535	-0.0005	0.0021	-0.0023
angle: 9688	394141.60	-0.1295	-0.0774	-89.7534	0.0000	0.0019	-0.0022
angle: 9689	394145.12	-0.1301	-0.0778	-89.7531	-0.0006	0.0015	-0.0019
angle: 9690	394148.61	-0.1300	-0.0771	-89.7530	-0.0005	0.0022	-0.0018
angle: 9691	394152.09	-0.1304	-0.0784	-89.7532	-0.0009	0.0010	-0.0020
angle: 9692	394155.56	-0.1298	-0.0781	-89.7533	-0.0003	0.0012	-0.0021
angle: 9693	394159.02	-0.1301	-0.0784	-89.7529	-0.0006	0.0010	-0.0017
angle: 9694	394162.45	-0.1299	-0.0777	-89.7522	-0.0004	0.0017	-0.0010
angle: 9695	394165.87	-0.1291	-0.0777	-89.7525	0.0003	0.0017	-0.0013
angle: 9696	394169.26	-0.1295	-0.0779	-89.7524	0.0000	0.0015	-0.0011
angle: 9697	394172.62	-0.1299	-0.0777	-89.7524	-0.0004	0.0016	-0.0012
angle: 9698	394175.96	-0.1303	-0.0776	-89.7524	-0.0008	0.0017	-0.0012
angle: 9699	394179.30	-0.1305	-0.0778	-89.7523	-0.0010	0.0015	-0.0011
angle: 9700	394182.65	-0.1300	-0.0783	-89.7520	-0.0006	0.0010	-0.0008
angle: 9701	394186.00	-0.1300	-0.0781	-89.7523	-0.0005	0.0012	-0.0011
angle: 9702	394189.35	-0.1295	-0.0784	-89.7525	0.0000	0.0009	-0.0013
angle: 9703	394192.67	-0.1298	-0.0780	-89.7521	-0.0004	0.0013	-0.0009
angle: 9704	394195.98	-0.1298	-0.0778	-89.7522	-0.0003	0.0015	-0.0010
angle: 9705	394199.29	-0.1297	-0.0778	-89.7520	-0.0002	0.0016	-0.0008
angle: 9706	394202.60	-0.1290	-0.0783	-89.7518	0.0005	0.0011	-0.0006
angle: 9707	394205.91	-0.1296	-0.0785	-89.7524	-0.0001	0.0008	-0.0012
angle: 9708	394209.22	-0.1294	-0.0783	-89.7522	0.0001	0.0010	-0.0010
angle: 9709	394212.54	-0.1293	-0.0780	-89.7521	0.0002	0.0013	-0.0009
angle: 9710	394215.85	-0.1288	-0.0780	-89.7517	0.0006	0.0014	-0.0005
angle: 9711	394219.16	-0.1289	-0.0779	-89.7518	0.0006	0.0014	-0.0005
angle: 9712	394222.47	-0.1294	-0.0783	-89.7520	0.0000	0.0011	-0.0008
angle: 9713	394225.78	-0.1296	-0.0786	-89.7518	-0.0001	0.0007	-0.0006
angle: 9714	394229.11	-0.1293	-0.0785	-89.7522	0.0002	0.0008	-0.0010
angle: 9715	394232.43	-0.1295	-0.0783	-89.7520	-0.0001	0.0011	-0.0008
angle: 9716	394235.75	-0.1294	-0.0780	-89.7523	0.0001	0.0013	-0.0011
angle: 9717	394239.07	-0.1292	-0.0791	-89.7523	0.0003	0.0002	-0.0011
angle: 9718	394242.41	-0.1300	-0.0784	-89.7520	-0.0005	0.0009	-0.0008
angle: 9719	394245.76	-0.1296	-0.0780	-89.7518	-0.0001	0.0014	-0.0006
angle: 9720	394249.15	-0.1295	-0.0786	-89.7517	0.0000	0.0007	-0.0005
angle: 9721	394252.55	-0.1299	-0.0786	-89.7521	-0.0004	0.0007	-0.0009
angle: 9722	394255.95	-0.1300	-0.0789	-89.7519	-0.0005	0.0004	-0.0007
angle: 9723	394259.40	-0.1308	-0.0782	-89.7520	-0.0013	0.0011	-0.0008
angle: 9724	394262.88	-0.1306	-0.0786	-89.7520	-0.0011	0.0007	-0.0008
angle: 9725	394266.41	-0.1298	-0.0788	-89.7521	-0.0003	0.0005	-0.0009
angle: 9726	394269.94	-0.1297	-0.0788	-89.7520	-0.0002	0.0006	-0.0008
angle: 9727	394273.44	-0.1295	-0.0786	-89.7515	0.0000	0.0007	-0.0003
angle: 9728	394276.92	-0.1293	-0.0785	-89.7511	0.0002	0.0008	0.0001
angle: 9729	394280.38	-0.1298	-0.0783	-89.7506	-0.0003	0.0010	0.0006
angle: 9730	394283.85	-0.1296	-0.0782	-89.7505	-0.0001	0.0012	0.0007
angle: 9629	393784.36	-0.1311	-0.0803	-89.7480	-0.0016	-0.0009	0.0032
angle: 9630	393786.96	-0.1314	-0.0800	-89.7480	-0.0020	-0.0007	0.0033
angle: 9631	393789.56	-0.1318	-0.0802	-89.7478	-0.0023	-0.0008	0.0035
angle: 9632	393792.17	-0.1314	-0.0805	-89.7480	-0.0020	-0.0011	0.0032
angle: 9633	393794.78	-0.1317	-0.0805	-89.7481	-0.0022	-0.0012	0.0031
angle: 9634	393797.40	-0.1311	-0.0801	-89.7483	-0.0016	-0.0008	0.0030
angle: 9635	393800.03	-0.1309	-0.0796	-89.7487	-0.0014	-0.0003	0.0025

angle:	9636	393802.67	-0.1312	-0.0797	-89.7484	-0.0017	-0.0003	0.0028
angle:	9637	393805.33	-0.1312	-0.0796	-89.7484	-0.0018	-0.0003	0.0028
angle:	9638	393808.00	-0.1311	-0.0788	-89.7487	-0.0016	0.0005	0.0026
angle:	9639	393810.69	-0.1309	-0.0792	-89.7482	-0.0015	0.0001	0.0030
angle:	9640	393813.39	-0.1315	-0.0797	-89.7482	-0.0020	-0.0004	0.0030
angle:	9641	393816.10	-0.1311	-0.0798	-89.7486	-0.0016	-0.0005	0.0026
angle:	9642	393818.83	-0.1308	-0.0797	-89.7481	-0.0013	-0.0004	0.0031
angle:	9643	393821.57	-0.1313	-0.0805	-89.7478	-0.0018	-0.0012	0.0034
angle:	9644	393824.30	-0.1313	-0.0800	-89.7480	-0.0018	-0.0007	0.0032
angle:	9645	393827.04	-0.1308	-0.0794	-89.7482	-0.0014	-0.0001	0.0030
angle:	9646	393829.79	-0.1309	-0.0801	-89.7481	-0.0015	-0.0007	0.0031
angle:	9647	393832.55	-0.1316	-0.0797	-89.7477	-0.0021	-0.0004	0.0035
angle:	9648	393835.31	-0.1316	-0.0797	-89.7475	-0.0021	-0.0003	0.0037
angle:	9649	393838.07	-0.1314	-0.0792	-89.7479	-0.0019	0.0001	0.0033
angle:	9650	393840.85	-0.1313	-0.0798	-89.7476	-0.0018	-0.0005	0.0036
angle:	9651	393843.62	-0.1312	-0.0796	-89.7477	-0.0018	-0.0002	0.0035
angle:	9652	393846.40	-0.1310	-0.0789	-89.7478	-0.0016	0.0004	0.0034
angle:	9653	393849.17	-0.1311	-0.0793	-89.7479	-0.0016	0.0000	0.0033
angle:	9654	393851.94	-0.1310	-0.0796	-89.7482	-0.0015	-0.0003	0.0030
angle:	9655	393854.70	-0.1317	-0.0799	-89.7479	-0.0022	-0.0006	0.0033
angle:	9656	393857.48	-0.1308	-0.0799	-89.7481	-0.0013	-0.0006	0.0031
angle:	9657	393860.25	-0.1309	-0.0798	-89.7481	-0.0014	-0.0004	0.0031
angle:	9658	393863.05	-0.1313	-0.0795	-89.7483	-0.0018	-0.0002	0.0029
angle:	9659	393865.84	-0.1307	-0.0796	-89.7484	-0.0012	-0.0003	0.0028
angle:	9660	393868.64	-0.1311	-0.0795	-89.7486	-0.0016	-0.0002	0.0026
angle:	9661	393871.45	-0.1303	-0.0788	-89.7482	-0.0009	0.0005	0.0030
angle:	9662	393874.26	-0.1306	-0.0793	-89.7482	-0.0012	0.0000	0.0030
angle:	9663	393877.07	-0.1304	-0.0799	-89.7484	-0.0009	-0.0006	0.0028
angle:	9664	393879.87	-0.1309	-0.0804	-89.7484	-0.0014	-0.0010	0.0028
angle:	9665	393882.68	-0.1300	-0.0793	-89.7482	-0.0005	0.0000	0.0030
angle:	9666	393885.49	-0.1306	-0.0806	-89.7487	-0.0012	-0.0013	0.0025
angle:	9667	393888.30	-0.1306	-0.0797	-89.7487	-0.0011	-0.0004	0.0025
angle:	9668	393891.11	-0.1303	-0.0803	-89.7484	-0.0009	-0.0010	0.0028
angle:	9669	393893.89	-0.1300	-0.0803	-89.7485	-0.0006	-0.0010	0.0027
angle:	9670	393896.68	-0.1305	-0.0804	-89.7482	-0.0010	-0.0011	0.0030
angle:	9671	393899.46	-0.1303	-0.0799	-89.7489	-0.0009	-0.0005	0.0023
angle:	9672	393902.24	-0.1309	-0.0795	-89.7490	-0.0014	-0.0002	0.0022
angle:	9673	393905.02	-0.1301	-0.0794	-89.7491	-0.0006	-0.0001	0.0021
angle:	9674	393907.80	-0.1298	-0.0791	-89.7490	-0.0003	0.0003	0.0022
angle:	9675	393910.57	-0.1301	-0.0786	-89.7492	-0.0006	0.0007	0.0020
angle:	9676	393913.33	-0.1299	-0.0789	-89.7491	-0.0005	0.0004	0.0022
angle:	9677	393916.09	-0.1303	-0.0785	-89.7488	-0.0008	0.0008	0.0024
angle:	9678	393918.85	-0.1302	-0.0781	-89.7490	-0.0007	0.0012	0.0022
angle:	9679	393921.62	-0.1300	-0.0784	-89.7487	-0.0005	0.0009	0.0025
angle:	9465	393089.97	-0.1305	-0.0792	-89.7565	-0.0010	0.0002	-0.0053
angle:	9466	393093.26	-0.1308	-0.0802	-89.7571	-0.0013	-0.0008	-0.0059
angle:	9467	393096.62	-0.1304	-0.0799	-89.7570	-0.0009	-0.0005	-0.0058
angle:	9468	393100.03	-0.1307	-0.0794	-89.7568	-0.0012	-0.0001	-0.0056
angle:	9469	393103.46	-0.1302	-0.0785	-89.7568	-0.0007	0.0008	-0.0056
angle:	9470	393106.94	-0.1302	-0.0785	-89.7567	-0.0007	0.0008	-0.0055
angle:	9471	393110.50	-0.1298	-0.0793	-89.7569	-0.0003	0.0000	-0.0057
angle:	9472	393114.07	-0.1293	-0.0782	-89.7567	0.0002	0.0011	-0.0054
angle:	9473	393117.60	-0.1289	-0.0788	-89.7565	0.0006	0.0005	-0.0053
angle:	9474	393121.12	-0.1298	-0.0791	-89.7565	-0.0004	0.0003	-0.0053
angle:	9475	393124.63	-0.1294	-0.0783	-89.7563	0.0000	0.0010	-0.0051
angle:	9476	393128.18	-0.1292	-0.0789	-89.7561	0.0002	0.0004	-0.0049
angle:	9477	393131.76	-0.1295	-0.0782	-89.7561	0.0000	0.0011	-0.0049
angle:	9478	393135.36	-0.1294	-0.0784	-89.7559	0.0001	0.0009	-0.0047
angle:	9479	393138.96	-0.1301	-0.0783	-89.7560	-0.0006	0.0010	-0.0047
angle:	9480	393142.51	-0.1298	-0.0792	-89.7560	-0.0004	0.0001	-0.0048
angle:	9481	393146.02	-0.1296	-0.0783	-89.7559	-0.0001	0.0011	-0.0047
angle:	9482	393149.53	-0.1296	-0.0782	-89.7557	-0.0002	0.0012	-0.0045
angle:	9483	393153.06	-0.1304	-0.0789	-89.7550	-0.0010	0.0004	-0.0038
angle:	9484	393156.56	-0.1295	-0.0787	-89.7549	0.0000	0.0006	-0.0037
angle:	9485	393160.09	-0.1299	-0.0784	-89.7549	-0.0005	0.0009	-0.0037
angle:	9486	393163.63	-0.1304	-0.0782	-89.7549	-0.0009	0.0011	-0.0037
angle:	9487	393167.19	-0.1303	-0.0786	-89.7544	-0.0008	0.0007	-0.0032
angle:	9488	393170.73	-0.1307	-0.0789	-89.7547	-0.0012	0.0004	-0.0035
angle:	9489	393174.25	-0.1302	-0.0788	-89.7542	-0.0007	0.0006	-0.0029
angle:	9490	393177.72	-0.1304	-0.0781	-89.7541	-0.0009	0.0012	-0.0029
angle:	9491	393181.16	-0.1304	-0.0784	-89.7543	-0.0009	0.0010	-0.0031
angle:	9492	393184.59	-0.1306	-0.0789	-89.7545	-0.0011	0.0004	-0.0032
angle:	9493	393188.03	-0.1298	-0.0786	-89.7548	-0.0004	0.0007	-0.0036
angle:	9494	393191.45	-0.1299	-0.0786	-89.7544	-0.0004	0.0008	-0.0032
angle:	9495	393194.84	-0.1290	-0.0777	-89.7541	0.0005	0.0017	-0.0028
angle:	9496	393198.21	-0.1297	-0.0792	-89.7537	-0.0003	0.0001	-0.0025
angle:	9497	393201.59	-0.1301	-0.0788	-89.7540	-0.0006	0.0005	-0.0028
angle:	9498	393204.97	-0.1301	-0.0782	-89.7541	-0.0006	0.0011	-0.0029
angle:	9499	393208.36	-0.1302	-0.0780	-89.7539	-0.0007	0.0013	-0.0027
angle:	9500	393211.78	-0.1299	-0.0779	-89.7533	-0.0004	0.0014	-0.0021
angle:	9501	393215.20	-0.1303	-0.0785	-89.7533	-0.0008	0.0008	-0.0021
angle:	9502	393218.61	-0.1300	-0.0789	-89.7536	-0.0005	0.0004	-0.0024
angle:	9503	393222.03	-0.1297	-0.0786	-89.7533	-0.0002	0.0007	-0.0021
angle:	9504	393225.43	-0.1306	-0.0782	-89.7536	-0.0012	0.0012	-0.0024
angle:	9505	393228.82	-0.1301	-0.0783	-89.7532	-0.0006	0.0010	-0.0020
angle:	9506	393232.21	-0.1296	-0.0790	-89.7530	-0.0001	0.0003	-0.0018
angle:	9507	393235.60	-0.1300	-0.0787	-89.7534	-0.0005	0.0006	-0.0022
angle:	9508	393238.98	-0.1289	-0.0780	-89.7532	0.0005	0.0013	-0.0020
angle:	9509	393242.36	-0.1301	-0.0779	-89.7530	-0.0006	0.0014	-0.0018
angle:	9510	393245.73	-0.1296	-0.0779	-89.7532	-0.0001	0.0014	-0.0020
angle:	9511	393249.10	-0.1298	-0.0786	-89.7533	-0.0003	0.0007	-0.0020
angle:	9512	393252.48	-0.1300	-0.0783	-89.7533	-0.0005	0.0010	-0.0021

angle:	9513	393255.89	-0.1307	-0.0792	-89.7528	-0.0012	0.0002	-0.0016
angle:	9514	393259.30	-0.1299	-0.0783	-89.7526	-0.0004	0.0011	-0.0014
angle:	9515	393262.75	-0.1300	-0.0781	-89.7525	-0.0005	0.0012	-0.0013
angle:	9411	392746.56	-0.1307	-0.0814	-89.7480	-0.0012	-0.0020	0.0032
angle:	9412	392749.25	-0.1304	-0.0809	-89.7478	-0.0009	-0.0016	0.0034
angle:	9413	392751.96	-0.1304	-0.0811	-89.7483	-0.0010	-0.0018	0.0029
angle:	9414	392754.69	-0.1302	-0.0804	-89.7481	-0.0007	-0.0010	0.0031
angle:	9415	392757.43	-0.1301	-0.0798	-89.7481	-0.0006	-0.0005	0.0031
angle:	9416	392760.18	-0.1308	-0.0804	-89.7483	-0.0013	-0.0011	0.0029
angle:	9417	392762.93	-0.1295	-0.0804	-89.7481	0.0000	-0.0010	0.0031
angle:	9418	392765.70	-0.1305	-0.0791	-89.7483	-0.0010	0.0002	0.0029
angle:	9419	392768.48	-0.1303	-0.0791	-89.7483	-0.0008	0.0002	0.0029
angle:	9420	392771.27	-0.1305	-0.0796	-89.7481	-0.0010	-0.0003	0.0031
angle:	9421	392774.07	-0.1306	-0.0791	-89.7483	-0.0011	0.0002	0.0030
angle:	9422	392776.86	-0.1300	-0.0794	-89.7490	-0.0005	-0.0001	0.0022
angle:	9423	392779.66	-0.1299	-0.0793	-89.7488	-0.0004	0.0001	0.0024
angle:	9424	392782.43	-0.1304	-0.0794	-89.7489	-0.0010	0.0000	0.0023
angle:	9425	392785.16	-0.1303	-0.0797	-89.7486	-0.0008	-0.0003	0.0026
angle:	9426	392787.88	-0.1309	-0.0798	-89.7489	-0.0014	-0.0004	0.0023
angle:	9427	392790.61	-0.1309	-0.0797	-89.7487	-0.0014	-0.0004	0.0025
angle:	9428	392793.37	-0.1304	-0.0794	-89.7488	-0.0009	-0.0001	0.0024
angle:	9429	392796.09	-0.1308	-0.0801	-89.7490	-0.0013	-0.0008	0.0022
angle:	9430	392798.80	-0.1312	-0.0798	-89.7486	-0.0017	-0.0005	0.0026
angle:	9431	392801.52	-0.1310	-0.0801	-89.7487	-0.0015	-0.0007	0.0025
angle:	9432	392804.25	-0.1304	-0.0793	-89.7489	-0.0009	0.0000	0.0023
angle:	9433	392806.99	-0.1308	-0.0798	-89.7488	-0.0013	-0.0005	0.0024
angle:	9434	392809.72	-0.1306	-0.0802	-89.7491	-0.0011	-0.0009	0.0021
angle:	9435	392812.46	-0.1305	-0.0797	-89.7491	-0.0010	-0.0004	0.0021
angle:	9436	392815.20	-0.1306	-0.0805	-89.7497	-0.0011	-0.0012	0.0015
angle:	9437	392817.95	-0.1308	-0.0800	-89.7496	-0.0013	-0.0007	0.0016
angle:	9438	392820.71	-0.1302	-0.0800	-89.7495	-0.0007	-0.0007	0.0018
angle:	9439	392823.47	-0.1299	-0.0794	-89.7497	-0.0005	-0.0001	0.0015
angle:	9440	392826.24	-0.1307	-0.0806	-89.7499	-0.0012	-0.0012	0.0013
angle:	9441	392828.99	-0.1294	-0.0794	-89.7498	0.0001	-0.0001	0.0014
angle:	9442	392831.74	-0.1302	-0.0801	-89.7498	-0.0007	-0.0008	0.0014
angle:	9443	392834.49	-0.1295	-0.0800	-89.7500	-0.0001	-0.0007	0.0012
angle:	9444	392837.23	-0.1295	-0.0800	-89.7500	0.0000	-0.0007	0.0012
angle:	9445	392839.98	-0.1297	-0.0792	-89.7503	-0.0002	0.0001	0.0009
angle:	9446	392842.73	-0.1297	-0.0793	-89.7502	-0.0002	0.0000	0.0010
angle:	9447	392845.48	-0.1298	-0.0795	-89.7502	-0.0003	-0.0001	0.0010
angle:	9448	392848.23	-0.1297	-0.0799	-89.7499	-0.0002	-0.0006	0.0013
angle:	9449	392850.99	-0.1300	-0.0804	-89.7504	-0.0005	-0.0010	0.0009
angle:	9450	392853.74	-0.1297	-0.0800	-89.7506	-0.0002	-0.0006	0.0006
angle:	9451	392856.46	-0.1302	-0.0800	-89.7505	-0.0008	-0.0007	0.0007
angle:	9452	392859.18	-0.1290	-0.0789	-89.7500	0.0005	0.0004	0.0012
angle:	9453	392861.91	-0.1295	-0.0795	-89.7501	0.0000	-0.0002	0.0011
angle:	9454	392864.65	-0.1295	-0.0786	-89.7502	0.0000	0.0007	0.0010
angle:	9455	392867.39	-0.1289	-0.0795	-89.7496	0.0006	-0.0002	0.0016
angle:	9456	392870.10	-0.1287	-0.0788	-89.7499	0.0008	0.0005	0.0014
angle:	9457	392872.83	-0.1290	-0.0794	-89.7500	0.0005	0.0000	0.0012
angle:	9458	392875.57	-0.1291	-0.0791	-89.7500	0.0003	0.0002	0.0012
angle:	9459	392878.34	-0.1283	-0.0793	-89.7500	0.0012	0.0001	0.0012
angle:	9460	392881.11	-0.1286	-0.0793	-89.7503	0.0009	0.0001	0.0009
angle:	9461	392883.88	-0.1288	-0.0786	-89.7506	0.0006	0.0007	0.0007
angle:	9316	392257.60	-0.1315	-0.0807	-89.7557	-0.0020	-0.0013	-0.0045
angle:	9317	392260.91	-0.1311	-0.0805	-89.7555	-0.0016	-0.0011	-0.0043
angle:	9318	392264.26	-0.1311	-0.0808	-89.7558	-0.0016	-0.0015	-0.0046
angle:	9319	392267.65	-0.1311	-0.0802	-89.7557	-0.0016	-0.0009	-0.0045
angle:	9320	392271.07	-0.1301	-0.0804	-89.7552	-0.0006	-0.0011	-0.0040
angle:	9321	392274.53	-0.1307	-0.0801	-89.7551	-0.0012	-0.0007	-0.0039
angle:	9322	392278.03	-0.1301	-0.0801	-89.7550	-0.0006	-0.0008	-0.0038
angle:	9323	392281.56	-0.1300	-0.0805	-89.7549	-0.0005	-0.0011	-0.0036
angle:	9324	392285.15	-0.1302	-0.0802	-89.7548	-0.0007	-0.0009	-0.0036
angle:	9325	392288.79	-0.1302	-0.0806	-89.7547	-0.0007	-0.0013	-0.0035
angle:	9326	392292.49	-0.1308	-0.0806	-89.7546	-0.0013	-0.0013	-0.0033
angle:	9327	392296.22	-0.1300	-0.0789	-89.7541	-0.0005	0.0005	-0.0029
angle:	9328	392299.99	-0.1307	-0.0793	-89.7542	-0.0013	0.0001	-0.0030
angle:	9329	392303.77	-0.1307	-0.0797	-89.7542	-0.0012	-0.0003	-0.0030
angle:	9330	392307.53	-0.1305	-0.0796	-89.7540	-0.0010	-0.0002	-0.0028
angle:	9331	392311.26	-0.1305	-0.0782	-89.7542	-0.0010	0.0012	-0.0030
angle:	9332	392314.94	-0.1301	-0.0793	-89.7540	-0.0006	0.0000	-0.0027
angle:	9333	392318.58	-0.1302	-0.0794	-89.7541	-0.0008	0.0000	-0.0029
angle:	9334	392322.19	-0.1304	-0.0805	-89.7543	-0.0009	-0.0012	-0.0031
angle:	9335	392325.78	-0.1309	-0.0793	-89.7543	-0.0014	0.0001	-0.0031
angle:	9336	392329.34	-0.1300	-0.0788	-89.7540	-0.0005	0.0006	-0.0028
angle:	9337	392332.89	-0.1307	-0.0796	-89.7539	-0.0012	-0.0003	-0.0027
angle:	9338	392336.41	-0.1304	-0.0795	-89.7533	-0.0010	-0.0002	-0.0021
angle:	9339	392339.92	-0.1309	-0.0791	-89.7536	-0.0015	0.0002	-0.0024
angle:	9340	392343.42	-0.1306	-0.0784	-89.7530	-0.0012	0.0009	-0.0018
angle:	9341	392346.92	-0.1313	-0.0788	-89.7531	-0.0018	0.0005	-0.0019
angle:	9342	392350.43	-0.1313	-0.0789	-89.7531	-0.0018	0.0004	-0.0018
angle:	9343	392353.93	-0.1303	-0.0791	-89.7534	-0.0008	0.0002	-0.0022
angle:	9344	392357.40	-0.1310	-0.0795	-89.7539	-0.0015	-0.0002	-0.0027
angle:	9345	392360.82	-0.1300	-0.0793	-89.7538	-0.0005	0.0000	-0.0026
angle:	9346	392364.22	-0.1302	-0.0792	-89.7536	-0.0008	0.0001	-0.0024
angle:	9347	392367.60	-0.1301	-0.0790	-89.7533	-0.0006	0.0003	-0.0021
angle:	9348	392370.96	-0.1306	-0.0796	-89.7528	-0.0011	-0.0003	-0.0016
angle:	9349	392374.30	-0.1300	-0.0796	-89.7528	-0.0005	-0.0003	-0.0016
angle:	9350	392377.62	-0.1309	-0.0795	-89.7530	-0.0014	-0.0001	-0.0018
angle:	9351	392380.97	-0.1309	-0.0791	-89.7527	-0.0015	0.0002	-0.0015
angle:	9352	392384.31	-0.1303	-0.0792	-89.7526	-0.0008	0.0001	-0.0014
angle:	9353	392387.61	-0.1303	-0.0797	-89.7522	-0.0008	-0.0004	-0.0010

angle:	9354	392390.90	-0.1298	-0.0793	-89.7521	-0.0003	0.0001	-0.0009
angle:	9355	392394.21	-0.1303	-0.0793	-89.7517	-0.0008	0.0001	-0.0005
angle:	9356	392397.52	-0.1292	-0.0791	-89.7513	0.0003	0.0003	0.0000
angle:	9357	392400.80	-0.1298	-0.0799	-89.7513	-0.0003	-0.0006	-0.0001
angle:	9358	392404.08	-0.1294	-0.0796	-89.7517	0.0001	-0.0002	-0.0005
angle:	9359	392407.34	-0.1302	-0.0790	-89.7515	-0.0007	0.0004	-0.0003
angle:	9360	392410.61	-0.1292	-0.0789	-89.7512	0.0003	0.0005	0.0000
angle:	9361	392413.88	-0.1298	-0.0788	-89.7513	-0.0003	0.0005	-0.0001
angle:	9362	392417.16	-0.1306	-0.0788	-89.7513	-0.0012	0.0005	-0.0001
angle:	9363	392420.45	-0.1304	-0.0783	-89.7510	-0.0009	0.0011	0.0002
angle:	9364	392423.74	-0.1298	-0.0781	-89.7508	-0.0003	0.0012	0.0004
angle:	9365	392427.02	-0.1301	-0.0780	-89.7509	-0.0006	0.0013	0.0003
angle:	9366	392430.30	-0.1297	-0.0783	-89.7504	-0.0002	0.0010	0.0008
angle:	9261	391902.98	-0.1300	-0.0819	-89.7567	-0.0006	-0.0026	-0.0055
angle:	9262	391905.89	-0.1297	-0.0816	-89.7567	-0.0002	-0.0022	-0.0055
angle:	9263	391908.80	-0.1303	-0.0818	-89.7569	-0.0009	-0.0025	-0.0057
angle:	9264	391911.70	-0.1303	-0.0809	-89.7566	-0.0008	-0.0016	-0.0054
angle:	9265	391914.59	-0.1301	-0.0809	-89.7565	-0.0006	-0.0016	-0.0053
angle:	9266	391917.46	-0.1296	-0.0810	-89.7562	-0.0002	-0.0017	-0.0050
angle:	9267	391920.30	-0.1298	-0.0806	-89.7562	-0.0003	-0.0012	-0.0050
angle:	9268	391923.13	-0.1296	-0.0803	-89.7557	-0.0001	-0.0009	-0.0045
angle:	9269	391925.93	-0.1301	-0.0806	-89.7557	-0.0006	-0.0012	-0.0044
angle:	9270	391928.72	-0.1305	-0.0801	-89.7561	-0.0010	-0.0008	-0.0049
angle:	9271	391931.50	-0.1306	-0.0802	-89.7562	-0.0012	-0.0009	-0.0050
angle:	9272	391934.27	-0.1304	-0.0801	-89.7561	-0.0010	-0.0008	-0.0049
angle:	9273	391937.04	-0.1299	-0.0797	-89.7565	-0.0004	-0.0004	-0.0052
angle:	9274	391939.78	-0.1297	-0.0800	-89.7557	-0.0002	-0.0007	-0.0045
angle:	9275	391942.53	-0.1296	-0.0803	-89.7558	-0.0001	-0.0009	-0.0046
angle:	9276	391945.28	-0.1297	-0.0803	-89.7552	-0.0003	-0.0010	-0.0039
angle:	9277	391948.02	-0.1297	-0.0798	-89.7553	-0.0002	-0.0004	-0.0041
angle:	9278	391950.76	-0.1292	-0.0795	-89.7554	0.0002	-0.0001	-0.0042
angle:	9279	391953.48	-0.1297	-0.0797	-89.7558	-0.0003	-0.0004	-0.0046
angle:	9280	391956.18	-0.1294	-0.0801	-89.7556	0.0001	-0.0008	-0.0044
angle:	9281	391958.87	-0.1296	-0.0800	-89.7553	-0.0001	-0.0007	-0.0041
angle:	9282	391961.59	-0.1298	-0.0803	-89.7553	-0.0004	-0.0010	-0.0041
angle:	9283	391964.31	-0.1289	-0.0804	-89.7556	0.0006	-0.0010	-0.0044
angle:	9284	391967.06	-0.1298	-0.0808	-89.7559	-0.0003	-0.0015	-0.0047
angle:	9285	391969.81	-0.1295	-0.0805	-89.7562	0.0000	-0.0012	-0.0050
angle:	9286	391972.58	-0.1294	-0.0805	-89.7558	0.0001	-0.0012	-0.0046
angle:	9287	391975.37	-0.1295	-0.0811	-89.7560	0.0000	-0.0018	-0.0047
angle:	9288	391978.16	-0.1299	-0.0811	-89.7560	-0.0004	-0.0017	-0.0047
angle:	9289	391980.94	-0.1291	-0.0803	-89.7560	0.0003	-0.0009	-0.0048
angle:	9290	391983.72	-0.1289	-0.0804	-89.7559	0.0006	-0.0010	-0.0047
angle:	9291	391986.49	-0.1294	-0.0809	-89.7559	0.0001	-0.0016	-0.0047
angle:	9292	391989.26	-0.1293	-0.0810	-89.7558	0.0001	-0.0017	-0.0046
angle:	9293	391992.02	-0.1294	-0.0804	-89.7556	0.0001	-0.0011	-0.0044
angle:	9294	391994.79	-0.1297	-0.0804	-89.7555	-0.0002	-0.0011	-0.0042
angle:	9295	391997.54	-0.1294	-0.0803	-89.7554	0.0001	-0.0010	-0.0042
angle:	9296	392000.29	-0.1289	-0.0802	-89.7548	0.0006	-0.0009	-0.0036
angle:	9297	392003.06	-0.1297	-0.0801	-89.7550	-0.0002	-0.0008	-0.0038
angle:	9298	392005.85	-0.1292	-0.0795	-89.7550	0.0003	-0.0002	-0.0038
angle:	9299	392008.67	-0.1286	-0.0796	-89.7542	0.0008	-0.0003	-0.0030
angle:	9300	392011.50	-0.1285	-0.0798	-89.7542	0.0010	-0.0005	-0.0030
angle:	9301	392014.34	-0.1282	-0.0792	-89.7537	0.0012	0.0001	-0.0025
angle:	9302	392017.18	-0.1276	-0.0793	-89.7541	0.0019	0.0000	-0.0029
angle:	9303	392020.04	-0.1281	-0.0793	-89.7539	0.0014	0.0000	-0.0027
angle:	9304	392022.89	-0.1278	-0.0801	-89.7542	0.0017	-0.0007	-0.0030
angle:	9305	392025.76	-0.1282	-0.0795	-89.7546	0.0012	-0.0002	-0.0034
angle:	9306	392028.64	-0.1281	-0.0801	-89.7545	0.0013	-0.0008	-0.0033
angle:	9307	392031.53	-0.1282	-0.0806	-89.7542	0.0013	-0.0013	-0.0030
angle:	9308	392034.44	-0.1280	-0.0798	-89.7543	0.0015	-0.0005	-0.0031
angle:	9309	392037.35	-0.1282	-0.0795	-89.7542	0.0013	-0.0002	-0.0030
angle:	9310	392040.22	-0.1285	-0.0791	-89.7541	0.0010	0.0003	-0.0029
angle:	9311	392043.09	-0.1283	-0.0791	-89.7531	0.0012	0.0002	-0.0019
angle:	9184	391145.98	-0.1316	-0.0802	-89.7543	-0.0021	-0.0009	-0.0031
angle:	9185	391149.25	-0.1314	-0.0794	-89.7539	-0.0019	-0.0001	-0.0027
angle:	9186	391152.49	-0.1305	-0.0792	-89.7536	-0.0010	0.0001	-0.0024
angle:	9187	391155.73	-0.1311	-0.0804	-89.7534	-0.0016	-0.0011	-0.0021
angle:	9188	391158.97	-0.1305	-0.0795	-89.7531	-0.0010	-0.0001	-0.0019
angle:	9189	391162.23	-0.1303	-0.0790	-89.7534	-0.0008	0.0003	-0.0022
angle:	9190	391165.52	-0.1307	-0.0792	-89.7533	-0.0013	0.0001	-0.0021
angle:	9191	391168.83	-0.1308	-0.0791	-89.7531	-0.0013	0.0002	-0.0019
angle:	9192	391172.19	-0.1307	-0.0791	-89.7533	-0.0012	0.0003	-0.0021
angle:	9193	391175.56	-0.1311	-0.0803	-89.7534	-0.0016	-0.0010	-0.0022
angle:	9194	391178.92	-0.1304	-0.0795	-89.7532	-0.0009	-0.0001	-0.0020
angle:	9195	391182.32	-0.1307	-0.0798	-89.7528	-0.0012	-0.0005	-0.0016
angle:	9196	391185.75	-0.1303	-0.0794	-89.7528	-0.0008	-0.0001	-0.0015
angle:	9197	391189.22	-0.1308	-0.0806	-89.7530	-0.0013	-0.0013	-0.0017
angle:	9198	391192.73	-0.1309	-0.0805	-89.7533	-0.0014	-0.0011	-0.0021
angle:	9199	391196.27	-0.1307	-0.0800	-89.7533	-0.0013	-0.0007	-0.0021
angle:	9200	391199.83	-0.1302	-0.0801	-89.7530	-0.0008	-0.0007	-0.0018
angle:	9201	391203.37	-0.1304	-0.0804	-89.7531	-0.0009	-0.0011	-0.0019
angle:	9202	391206.91	-0.1302	-0.0795	-89.7530	-0.0007	-0.0001	-0.0018
angle:	9203	391210.42	-0.1299	-0.0790	-89.7530	-0.0004	0.0003	-0.0018
angle:	9204	391213.92	-0.1294	-0.0786	-89.7528	0.0001	0.0007	-0.0016
angle:	9205	391217.44	-0.1296	-0.0795	-89.7522	-0.0001	-0.0002	-0.0010
angle:	9206	391220.96	-0.1296	-0.0797	-89.7525	-0.0001	-0.0004	-0.0013
angle:	9207	391224.47	-0.1300	-0.0791	-89.7530	-0.0005	0.0002	-0.0018
angle:	9208	391227.98	-0.1297	-0.0793	-89.7527	-0.0002	0.0001	-0.0015
angle:	9209	391231.51	-0.1303	-0.0793	-89.7525	-0.0008	0.0000	-0.0013
angle:	9210	391235.06	-0.1302	-0.0791	-89.7524	-0.0007	0.0002	-0.0012
angle:	9211	391238.63	-0.1304	-0.0792	-89.7525	-0.0010	0.0001	-0.0013

angle:	9212	391242.21	-0.1299	-0.0785	-89.7524	-0.0005	0.0009	-0.0012
angle:	9213	391245.77	-0.1301	-0.0788	-89.7524	-0.0006	0.0006	-0.0012
angle:	9214	391249.29	-0.1297	-0.0787	-89.7520	-0.0003	0.0006	-0.0008
angle:	9215	391252.76	-0.1305	-0.0790	-89.7523	-0.0010	0.0003	-0.0011
angle:	9216	391256.20	-0.1297	-0.0785	-89.7522	-0.0002	0.0009	-0.0009
angle:	9217	391259.64	-0.1297	-0.0781	-89.7520	-0.0002	0.0013	-0.0008
angle:	9218	391263.07	-0.1299	-0.0777	-89.7524	-0.0004	0.0016	-0.0012
angle:	9219	391266.51	-0.1296	-0.0775	-89.7517	-0.0001	0.0018	-0.0005
angle:	9220	391269.92	-0.1299	-0.0776	-89.7516	-0.0005	0.0017	-0.0004
angle:	9221	391273.30	-0.1306	-0.0778	-89.7517	-0.0011	0.0016	-0.0005
angle:	9222	391276.65	-0.1293	-0.0776	-89.7520	0.0002	0.0017	-0.0008
angle:	9223	391280.03	-0.1300	-0.0777	-89.7515	-0.0005	0.0016	-0.0003
angle:	9224	391283.42	-0.1311	-0.0785	-89.7516	-0.0016	0.0009	-0.0004
angle:	9225	391286.82	-0.1309	-0.0781	-89.7519	-0.0014	0.0013	-0.0007
angle:	9226	391290.23	-0.1303	-0.0776	-89.7517	-0.0008	0.0017	-0.0005
angle:	9227	391293.62	-0.1304	-0.0780	-89.7521	-0.0009	0.0013	-0.0009
angle:	9228	391296.99	-0.1302	-0.0778	-89.7519	-0.0008	0.0015	-0.0007
angle:	9229	391300.31	-0.1299	-0.0781	-89.7518	-0.0004	0.0013	-0.0006
angle:	9230	391303.62	-0.1297	-0.0782	-89.7518	-0.0002	0.0011	-0.0006
angle:	9231	391306.90	-0.1298	-0.0777	-89.7515	-0.0003	0.0016	-0.0003
angle:	9232	391310.18	-0.1298	-0.0775	-89.7515	-0.0004	0.0018	-0.0003
angle:	9233	391313.43	-0.1297	-0.0777	-89.7512	-0.0002	0.0016	0.0000
angle:	9234	391316.67	-0.1302	-0.0770	-89.7515	-0.0007	0.0023	-0.0003
angle:	9124	390728.09	-0.1300	-0.0819	-89.7466	-0.0005	-0.0025	0.0046
angle:	9125	390730.93	-0.1302	-0.0818	-89.7466	-0.0007	-0.0025	0.0046
angle:	9126	390733.74	-0.1300	-0.0815	-89.7463	-0.0005	-0.0022	0.0050
angle:	9127	390736.53	-0.1297	-0.0806	-89.7457	-0.0002	-0.0013	0.0055
angle:	9128	390739.31	-0.1300	-0.0805	-89.7457	-0.0005	-0.0012	0.0055
angle:	9129	390742.10	-0.1300	-0.0806	-89.7460	-0.0005	-0.0013	0.0052
angle:	9130	390744.91	-0.1292	-0.0803	-89.7458	0.0002	-0.0010	0.0055
angle:	9131	390747.71	-0.1294	-0.0805	-89.7454	0.0001	-0.0011	0.0058
angle:	9132	390750.52	-0.1295	-0.0810	-89.7454	0.0000	-0.0017	0.0058
angle:	9133	390753.33	-0.1293	-0.0812	-89.7462	0.0001	-0.0019	0.0050
angle:	9134	390756.15	-0.1294	-0.0810	-89.7464	0.0001	-0.0016	0.0048
angle:	9135	390758.97	-0.1291	-0.0808	-89.7462	0.0004	-0.0015	0.0050
angle:	9136	390761.81	-0.1290	-0.0809	-89.7464	0.0005	-0.0016	0.0048
angle:	9137	390764.63	-0.1288	-0.0801	-89.7460	0.0006	-0.0008	0.0052
angle:	9138	390767.43	-0.1286	-0.0803	-89.7461	0.0009	-0.0010	0.0051
angle:	9139	390770.23	-0.1289	-0.0799	-89.7460	0.0006	-0.0006	0.0052
angle:	9140	390773.03	-0.1292	-0.0798	-89.7462	0.0003	-0.0005	0.0050
angle:	9141	390775.83	-0.1297	-0.0806	-89.7463	-0.0002	-0.0013	0.0049
angle:	9142	390778.62	-0.1293	-0.0806	-89.7465	0.0002	-0.0013	0.0047
angle:	9143	390781.41	-0.1288	-0.0797	-89.7466	0.0007	-0.0004	0.0046
angle:	9144	390784.21	-0.1285	-0.0798	-89.7466	0.0010	-0.0005	0.0046
angle:	9145	390787.04	-0.1285	-0.0796	-89.7468	0.0010	-0.0003	0.0044
angle:	9146	390789.91	-0.1284	-0.0798	-89.7474	0.0011	-0.0005	0.0038
angle:	9147	390792.80	-0.1292	-0.0804	-89.7474	0.0003	-0.0011	0.0038
angle:	9148	390795.71	-0.1286	-0.0798	-89.7474	0.0009	-0.0005	0.0038
angle:	9149	390798.62	-0.1291	-0.0797	-89.7477	0.0003	-0.0004	0.0035
angle:	9150	390801.53	-0.1294	-0.0801	-89.7479	0.0001	-0.0008	0.0033
angle:	9151	390804.44	-0.1281	-0.0798	-89.7475	0.0014	-0.0005	0.0037
angle:	9152	390807.34	-0.1282	-0.0794	-89.7473	0.0013	0.0000	0.0039
angle:	9153	390810.22	-0.1279	-0.0790	-89.7474	0.0015	0.0003	0.0038
angle:	9154	390813.12	-0.1287	-0.0793	-89.7475	0.0008	0.0001	0.0037
angle:	9155	390816.00	-0.1292	-0.0809	-89.7479	0.0003	-0.0015	0.0033
angle:	9156	390818.88	-0.1284	-0.0797	-89.7479	0.0011	-0.0004	0.0033
angle:	9157	390821.75	-0.1287	-0.0798	-89.7484	0.0008	-0.0005	0.0028
angle:	9158	390824.62	-0.1281	-0.0799	-89.7482	0.0013	-0.0006	0.0030
angle:	9159	390827.48	-0.1278	-0.0800	-89.7481	0.0017	-0.0007	0.0031
angle:	9160	390830.34	-0.1285	-0.0793	-89.7482	0.0010	0.0000	0.0030
angle:	9161	390833.18	-0.1280	-0.0803	-89.7481	0.0015	-0.0009	0.0031
angle:	9162	390836.01	-0.1278	-0.0791	-89.7487	0.0017	0.0002	0.0025
angle:	9163	390838.83	-0.1279	-0.0794	-89.7485	0.0015	0.0000	0.0027
angle:	9164	390841.64	-0.1286	-0.0796	-89.7485	0.0009	-0.0003	0.0027
angle:	9165	390844.47	-0.1279	-0.0797	-89.7484	0.0015	-0.0003	0.0028
angle:	9166	390847.31	-0.1281	-0.0796	-89.7489	0.0014	-0.0003	0.0024
angle:	9167	390850.15	-0.1279	-0.0796	-89.7492	0.0016	-0.0002	0.0020
angle:	9168	390852.98	-0.1284	-0.0796	-89.7493	0.0011	-0.0003	0.0019
angle:	9169	390855.79	-0.1289	-0.0797	-89.7489	0.0006	-0.0004	0.0023
angle:	9170	390858.59	-0.1285	-0.0799	-89.7495	0.0009	-0.0006	0.0017
angle:	9171	390861.40	-0.1280	-0.0795	-89.7498	0.0014	-0.0002	0.0014
angle:	9172	390864.20	-0.1283	-0.0797	-89.7499	0.0012	-0.0003	0.0014
angle:	9173	390866.98	-0.1277	-0.0792	-89.7498	0.0018	0.0001	0.0014
angle:	9174	390869.74	-0.1276	-0.0786	-89.7494	0.0018	0.0008	0.0018
angle:	9059	390328.72	-0.1308	-0.0797	-89.7539	-0.0013	-0.0004	-0.0027
angle:	9060	390332.11	-0.1308	-0.0794	-89.7533	-0.0014	-0.0001	-0.0020
angle:	9061	390335.48	-0.1305	-0.0795	-89.7531	-0.0010	-0.0002	-0.0019
angle:	9062	390338.81	-0.1304	-0.0797	-89.7533	-0.0009	-0.0004	-0.0021
angle:	9063	390342.15	-0.1309	-0.0793	-89.7535	-0.0015	0.0000	-0.0023
angle:	9064	390345.45	-0.1304	-0.0781	-89.7533	-0.0009	0.0012	-0.0021
angle:	9065	390348.72	-0.1310	-0.0790	-89.7530	-0.0015	0.0004	-0.0018
angle:	9066	390351.96	-0.1302	-0.0790	-89.7529	-0.0007	0.0003	-0.0017
angle:	9067	390355.17	-0.1302	-0.0804	-89.7529	-0.0007	-0.0011	-0.0016
angle:	9068	390358.39	-0.1301	-0.0799	-89.7531	-0.0006	-0.0006	-0.0019
angle:	9069	390361.62	-0.1303	-0.0792	-89.7528	-0.0008	0.0002	-0.0016
angle:	9070	390364.88	-0.1296	-0.0783	-89.7521	-0.0001	0.0010	-0.0009
angle:	9071	390368.18	-0.1299	-0.0790	-89.7519	-0.0004	0.0003	-0.0007
angle:	9072	390371.51	-0.1297	-0.0793	-89.7516	-0.0002	0.0000	-0.0004
angle:	9073	390374.88	-0.1301	-0.0797	-89.7515	-0.0006	-0.0004	-0.0003
angle:	9074	390378.29	-0.1300	-0.0792	-89.7513	-0.0005	0.0002	-0.0001
angle:	9075	390381.72	-0.1306	-0.0797	-89.7517	-0.0011	-0.0004	-0.0005
angle:	9076	390385.16	-0.1297	-0.0796	-89.7513	-0.0003	-0.0003	-0.0001

angle:	9077	390388.60	-0.1304	-0.0802	-89.7516	-0.0009	-0.0009	-0.0004
angle:	9078	390392.01	-0.1292	-0.0795	-89.7511	0.0003	-0.0001	0.0001
angle:	9079	390395.41	-0.1299	-0.0790	-89.7508	-0.0004	0.0003	0.0004
angle:	9080	390398.79	-0.1299	-0.0794	-89.7507	-0.0005	-0.0001	0.0005
angle:	9081	390402.18	-0.1300	-0.0793	-89.7506	-0.0005	0.0000	0.0006
angle:	9082	390405.57	-0.1293	-0.0792	-89.7505	0.0002	0.0001	0.0007
angle:	9083	390408.97	-0.1297	-0.0790	-89.7506	-0.0002	0.0003	0.0007
angle:	9084	390412.36	-0.1298	-0.0796	-89.7504	-0.0003	-0.0003	0.0008
angle:	9085	390415.73	-0.1293	-0.0792	-89.7500	0.0002	0.0001	0.0012
angle:	9086	390419.07	-0.1300	-0.0788	-89.7504	-0.0005	0.0006	0.0009
angle:	9087	390422.43	-0.1305	-0.0791	-89.7503	-0.0010	0.0002	0.0010
angle:	9088	390425.80	-0.1306	-0.0790	-89.7506	-0.0011	0.0004	0.0006
angle:	9089	390429.18	-0.1304	-0.0784	-89.7503	-0.0010	0.0010	0.0009
angle:	9090	390432.56	-0.1307	-0.0790	-89.7499	-0.0012	0.0003	0.0013
angle:	9091	390435.98	-0.1302	-0.0788	-89.7500	-0.0007	0.0006	0.0012
angle:	9092	390439.40	-0.1292	-0.0788	-89.7497	0.0003	0.0006	0.0015
angle:	9093	390442.83	-0.1296	-0.0795	-89.7500	-0.0001	-0.0002	0.0012
angle:	9094	390446.25	-0.1291	-0.0791	-89.7501	0.0003	0.0002	0.0011
angle:	9095	390449.65	-0.1298	-0.0784	-89.7500	-0.0003	0.0009	0.0012
angle:	9096	390453.04	-0.1294	-0.0785	-89.7500	0.0001	0.0008	0.0012
angle:	9097	390456.45	-0.1297	-0.0788	-89.7499	-0.0002	0.0005	0.0013
angle:	9098	390459.89	-0.1299	-0.0783	-89.7497	-0.0004	0.0010	0.0016
angle:	9099	390463.34	-0.1310	-0.0792	-89.7501	-0.0016	0.0001	0.0011
angle:	9100	390466.79	-0.1303	-0.0782	-89.7501	-0.0008	0.0011	0.0012
angle:	9101	390470.25	-0.1295	-0.0778	-89.7495	0.0000	0.0015	0.0017
angle:	9102	390473.71	-0.1294	-0.0781	-89.7496	0.0001	0.0012	0.0016
angle:	9103	390477.17	-0.1297	-0.0790	-89.7499	-0.0003	0.0003	0.0013
angle:	9104	390480.61	-0.1298	-0.0784	-89.7498	-0.0003	0.0009	0.0014
angle:	9105	390484.03	-0.1294	-0.0776	-89.7499	0.0001	0.0017	0.0013
angle:	9106	390487.44	-0.1294	-0.0777	-89.7500	0.0001	0.0016	0.0013
angle:	9107	390490.86	-0.1287	-0.0780	-89.7501	0.0007	0.0013	0.0011
angle:	9108	390494.25	-0.1289	-0.0774	-89.7502	0.0006	0.0019	0.0010
angle:	9109	390497.63	-0.1291	-0.0773	-89.7503	0.0004	0.0021	0.0009
angle:	8993	389847.20	-0.1312	-0.0808	-89.7493	-0.0017	-0.0015	0.0019
angle:	8994	389849.97	-0.1306	-0.0813	-89.7495	-0.0011	-0.0019	0.0017
angle:	8995	389852.73	-0.1306	-0.0810	-89.7493	-0.0011	-0.0017	0.0020
angle:	8996	389855.48	-0.1299	-0.0816	-89.7492	-0.0005	-0.0023	0.0021
angle:	8997	389858.22	-0.1297	-0.0812	-89.7487	-0.0002	-0.0019	0.0025
angle:	8998	389860.97	-0.1290	-0.0805	-89.7490	0.0005	-0.0012	0.0022
angle:	8999	389863.70	-0.1295	-0.0811	-89.7494	0.0000	-0.0018	0.0018
angle:	9000	389866.44	-0.1289	-0.0807	-89.7488	0.0005	-0.0013	0.0024
angle:	9001	389869.19	-0.1282	-0.0805	-89.7491	0.0013	-0.0011	0.0022
angle:	9002	389871.95	-0.1283	-0.0802	-89.7487	0.0012	-0.0009	0.0025
angle:	9003	389874.73	-0.1286	-0.0804	-89.7487	0.0008	-0.0010	0.0025
angle:	9004	389877.53	-0.1284	-0.0802	-89.7484	0.0011	-0.0009	0.0029
angle:	9005	389880.34	-0.1285	-0.0809	-89.7482	0.0010	-0.0015	0.0030
angle:	9006	389883.16	-0.1278	-0.0801	-89.7480	0.0017	-0.0008	0.0032
angle:	9007	389886.00	-0.1282	-0.0805	-89.7485	0.0013	-0.0011	0.0027
angle:	9008	389888.85	-0.1280	-0.0810	-89.7482	0.0015	-0.0017	0.0030
angle:	9009	389891.71	-0.1280	-0.0801	-89.7482	0.0014	-0.0008	0.0030
angle:	9010	389894.59	-0.1287	-0.0800	-89.7483	0.0007	-0.0007	0.0030
angle:	9011	389897.49	-0.1283	-0.0797	-89.7481	0.0012	-0.0003	0.0031
angle:	9012	389900.40	-0.1288	-0.0795	-89.7479	0.0007	-0.0002	0.0033
angle:	9013	389903.33	-0.1287	-0.0792	-89.7479	0.0008	0.0001	0.0033
angle:	9014	389906.26	-0.1286	-0.0797	-89.7479	0.0009	-0.0004	0.0033
angle:	9015	389909.18	-0.1290	-0.0797	-89.7481	0.0005	-0.0004	0.0031
angle:	9016	389912.08	-0.1287	-0.0795	-89.7481	0.0008	-0.0001	0.0031
angle:	9017	389914.96	-0.1290	-0.0803	-89.7482	0.0004	-0.0009	0.0030
angle:	9018	389917.82	-0.1285	-0.0798	-89.7481	0.0010	-0.0005	0.0031
angle:	9019	389920.68	-0.1292	-0.0805	-89.7484	0.0003	-0.0011	0.0028
angle:	9020	389923.51	-0.1293	-0.0797	-89.7478	0.0002	-0.0004	0.0034
angle:	9021	389926.33	-0.1294	-0.0802	-89.7483	0.0001	-0.0009	0.0029
angle:	9022	389929.13	-0.1292	-0.0798	-89.7480	0.0002	-0.0005	0.0032
angle:	9023	389931.94	-0.1286	-0.0794	-89.7480	0.0009	-0.0001	0.0032
angle:	9024	389934.72	-0.1284	-0.0800	-89.7482	0.0010	-0.0006	0.0030
angle:	9025	389937.49	-0.1288	-0.0801	-89.7481	0.0007	-0.0008	0.0032
angle:	9026	389940.22	-0.1289	-0.0795	-89.7483	0.0005	-0.0002	0.0030
angle:	9027	389942.95	-0.1284	-0.0784	-89.7479	0.0011	0.0009	0.0033
angle:	9028	389945.65	-0.1286	-0.0781	-89.7479	0.0009	0.0012	0.0034
angle:	9029	389948.35	-0.1280	-0.0794	-89.7477	0.0015	-0.0001	0.0035
angle:	9030	389951.04	-0.1285	-0.0797	-89.7476	0.0010	-0.0004	0.0036
angle:	9031	389953.72	-0.1282	-0.0799	-89.7479	0.0012	-0.0006	0.0033
angle:	9032	389956.41	-0.1279	-0.0789	-89.7478	0.0016	0.0004	0.0034
angle:	9033	389959.11	-0.1282	-0.0788	-89.7478	0.0013	0.0006	0.0034
angle:	9034	389961.82	-0.1280	-0.0793	-89.7480	0.0015	0.0001	0.0032
angle:	9035	389964.53	-0.1283	-0.0784	-89.7484	0.0012	0.0009	0.0028
angle:	9036	389967.22	-0.1276	-0.0786	-89.7488	0.0019	0.0007	0.0024
angle:	9037	389969.92	-0.1279	-0.0785	-89.7487	0.0016	0.0009	0.0025
angle:	9038	389972.61	-0.1281	-0.0786	-89.7492	0.0014	0.0007	0.0020
angle:	9039	389975.29	-0.1280	-0.0789	-89.7489	0.0014	0.0005	0.0023
angle:	9040	389977.96	-0.1278	-0.0789	-89.7489	0.0017	0.0005	0.0023
angle:	9041	389980.62	-0.1283	-0.0789	-89.7495	0.0011	0.0004	0.0017
angle:	9042	389983.28	-0.1278	-0.0785	-89.7492	0.0017	0.0008	0.0020
angle:	9043	389985.93	-0.1287	-0.0778	-89.7496	0.0008	0.0016	0.0016
angle:	8933	389457.22	-0.1300	-0.0808	-89.7532	-0.0006	-0.0015	-0.0020
angle:	8934	389460.58	-0.1304	-0.0807	-89.7532	-0.0009	-0.0014	-0.0020
angle:	8935	389463.94	-0.1302	-0.0805	-89.7530	-0.0007	-0.0012	-0.0018
angle:	8936	389467.31	-0.1293	-0.0802	-89.7527	0.0001	-0.0008	-0.0015
angle:	8937	389470.65	-0.1299	-0.0797	-89.7525	-0.0005	-0.0004	-0.0013
angle:	8938	389473.96	-0.1299	-0.0802	-89.7526	-0.0004	-0.0009	-0.0014
angle:	8939	389477.23	-0.1299	-0.0796	-89.7524	-0.0004	-0.0003	-0.0012
angle:	8940	389480.47	-0.1298	-0.0794	-89.7525	-0.0003	-0.0001	-0.0012

angle:	8941	389483.70	-0.1297	-0.0795	-89.7525	-0.0003	-0.0002	-0.0013
angle:	8942	389486.92	-0.1296	-0.0784	-89.7525	-0.0001	0.0009	-0.0013
angle:	8943	389490.13	-0.1299	-0.0789	-89.7521	-0.0004	0.0005	-0.0009
angle:	8944	389493.32	-0.1301	-0.0793	-89.7522	-0.0006	0.0000	-0.0010
angle:	8945	389496.52	-0.1302	-0.0799	-89.7522	-0.0007	-0.0006	-0.0010
angle:	8946	389499.73	-0.1299	-0.0797	-89.7521	-0.0004	-0.0003	-0.0009
angle:	8947	389502.98	-0.1297	-0.0798	-89.7525	-0.0002	-0.0005	-0.0013
angle:	8948	389506.21	-0.1299	-0.0797	-89.7523	-0.0004	-0.0003	-0.0011
angle:	8949	389509.43	-0.1301	-0.0794	-89.7520	-0.0006	0.0000	-0.0008
angle:	8950	389512.66	-0.1297	-0.0796	-89.7520	-0.0003	-0.0003	-0.0008
angle:	8951	389515.88	-0.1297	-0.0792	-89.7522	-0.0003	0.0001	-0.0010
angle:	8952	389519.11	-0.1299	-0.0796	-89.7519	-0.0004	-0.0003	-0.0007
angle:	8953	389522.34	-0.1300	-0.0796	-89.7523	-0.0006	-0.0003	-0.0011
angle:	8954	389525.57	-0.1295	-0.0788	-89.7517	0.0000	0.0005	-0.0005
angle:	8955	389528.78	-0.1295	-0.0791	-89.7516	-0.0001	0.0003	-0.0004
angle:	8956	389531.97	-0.1292	-0.0791	-89.7514	0.0003	0.0002	-0.0002
angle:	8957	389535.17	-0.1292	-0.0793	-89.7519	0.0003	0.0001	-0.0007
angle:	8958	389538.34	-0.1297	-0.0784	-89.7516	-0.0003	0.0009	-0.0004
angle:	8959	389541.51	-0.1302	-0.0787	-89.7519	-0.0007	0.0006	-0.0007
angle:	8960	389544.67	-0.1294	-0.0788	-89.7521	0.0001	0.0005	-0.0009
angle:	8961	389547.82	-0.1297	-0.0794	-89.7518	-0.0002	-0.0001	-0.0006
angle:	8962	389550.96	-0.1298	-0.0791	-89.7517	-0.0003	0.0002	-0.0005
angle:	8963	389554.11	-0.1292	-0.0787	-89.7515	0.0003	0.0007	-0.0003
angle:	8964	389557.26	-0.1290	-0.0783	-89.7513	0.0005	0.0010	0.0000
angle:	8965	389560.42	-0.1293	-0.0788	-89.7512	0.0002	0.0006	0.0000
angle:	8966	389563.60	-0.1295	-0.0791	-89.7515	0.0000	0.0002	-0.0003
angle:	8967	389566.79	-0.1291	-0.0786	-89.7513	0.0004	0.0007	-0.0001
angle:	8968	389569.99	-0.1293	-0.0788	-89.7510	0.0002	0.0005	0.0002
angle:	8969	389573.22	-0.1287	-0.0792	-89.7510	0.0008	0.0001	0.0002
angle:	8970	389576.48	-0.1291	-0.0785	-89.7507	0.0004	0.0008	0.0005
angle:	8971	389579.74	-0.1290	-0.0796	-89.7507	0.0004	-0.0003	0.0005
angle:	8972	389583.01	-0.1286	-0.0791	-89.7509	0.0009	0.0002	0.0003
angle:	8973	389586.31	-0.1284	-0.0794	-89.7511	0.0011	0.0000	0.0002
angle:	8974	389589.64	-0.1285	-0.0795	-89.7516	0.0009	-0.0001	-0.0004
angle:	8975	389592.99	-0.1282	-0.0784	-89.7516	0.0013	0.0009	-0.0003
angle:	8976	389596.34	-0.1284	-0.0787	-89.7515	0.0011	0.0007	-0.0003
angle:	8977	389599.73	-0.1288	-0.0785	-89.7514	0.0007	0.0008	-0.0002
angle:	8978	389603.16	-0.1281	-0.0778	-89.7517	0.0014	0.0016	-0.0005
angle:	8979	389606.60	-0.1284	-0.0777	-89.7515	0.0011	0.0016	-0.0003
angle:	8980	389610.05	-0.1287	-0.0783	-89.7518	0.0007	0.0010	-0.0006
angle:	8981	389613.50	-0.1280	-0.0779	-89.7520	0.0015	0.0014	-0.0008
angle:	8982	389616.97	-0.1283	-0.0778	-89.7517	0.0012	0.0015	-0.0005
angle:	8983	389620.44	-0.1279	-0.0773	-89.7513	0.0016	0.0020	-0.0001
angle:	8861	388988.94	-0.1280	-0.0819	-89.7499	0.0015	-0.0026	0.0013
angle:	8862	388991.56	-0.1273	-0.0813	-89.7498	0.0022	-0.0020	0.0014
angle:	8863	388994.20	-0.1271	-0.0813	-89.7498	0.0023	-0.0020	0.0015
angle:	8864	388996.85	-0.1270	-0.0810	-89.7501	0.0025	-0.0016	0.0011
angle:	8865	388999.53	-0.1269	-0.0805	-89.7500	0.0026	-0.0012	0.0012
angle:	8866	389002.23	-0.1268	-0.0811	-89.7500	0.0027	-0.0018	0.0012
angle:	8867	389004.95	-0.1269	-0.0808	-89.7496	0.0026	-0.0014	0.0016
angle:	8868	389007.69	-0.1266	-0.0807	-89.7494	0.0029	-0.0014	0.0018
angle:	8869	389010.44	-0.1265	-0.0803	-89.7494	0.0030	-0.0009	0.0019
angle:	8870	389013.19	-0.1264	-0.0801	-89.7489	0.0031	-0.0008	0.0023
angle:	8871	389015.96	-0.1267	-0.0797	-89.7493	0.0028	-0.0003	0.0019
angle:	8872	389018.72	-0.1266	-0.0801	-89.7496	0.0028	-0.0007	0.0016
angle:	8873	389021.49	-0.1263	-0.0791	-89.7493	0.0032	0.0003	0.0019
angle:	8874	389024.25	-0.1266	-0.0798	-89.7496	0.0029	-0.0004	0.0016
angle:	8875	389027.00	-0.1269	-0.0791	-89.7495	0.0026	0.0002	0.0017
angle:	8876	389029.76	-0.1267	-0.0797	-89.7491	0.0028	-0.0004	0.0021
angle:	8877	389032.52	-0.1272	-0.0791	-89.7493	0.0023	0.0002	0.0019
angle:	8878	389035.27	-0.1273	-0.0793	-89.7492	0.0022	0.0001	0.0020
angle:	8879	389037.99	-0.1270	-0.0792	-89.7491	0.0025	0.0001	0.0021
angle:	8880	389040.69	-0.1271	-0.0793	-89.7491	0.0024	0.0000	0.0021
angle:	8881	389043.38	-0.1272	-0.0796	-89.7496	0.0022	-0.0003	0.0016
angle:	8882	389046.04	-0.1271	-0.0792	-89.7495	0.0023	0.0001	0.0017
angle:	8883	389048.69	-0.1273	-0.0793	-89.7499	0.0022	0.0000	0.0013
angle:	8884	389051.32	-0.1268	-0.0798	-89.7498	0.0027	-0.0004	0.0014
angle:	8885	389053.95	-0.1271	-0.0795	-89.7498	0.0023	-0.0002	0.0014
angle:	8886	389056.57	-0.1267	-0.0790	-89.7492	0.0028	0.0003	0.0020
angle:	8887	389059.18	-0.1265	-0.0791	-89.7498	0.0029	0.0002	0.0014
angle:	8888	389061.77	-0.1262	-0.0790	-89.7494	0.0033	0.0003	0.0018
angle:	8889	389064.36	-0.1263	-0.0799	-89.7495	0.0032	-0.0006	0.0017
angle:	8890	389066.94	-0.1261	-0.0793	-89.7497	0.0033	0.0001	0.0015
angle:	8891	389069.53	-0.1259	-0.0795	-89.7492	0.0036	-0.0002	0.0020
angle:	8892	389072.11	-0.1263	-0.0795	-89.7490	0.0032	-0.0002	0.0022
angle:	8893	389074.69	-0.1258	-0.0790	-89.7488	0.0037	0.0003	0.0024
angle:	8894	389077.29	-0.1258	-0.0782	-89.7496	0.0037	0.0011	0.0016
angle:	8895	389079.91	-0.1257	-0.0785	-89.7495	0.0038	0.0008	0.0017
angle:	8896	389082.54	-0.1262	-0.0787	-89.7497	0.0032	0.0006	0.0015
angle:	8897	389085.18	-0.1259	-0.0787	-89.7496	0.0036	0.0007	0.0016
angle:	8898	389087.82	-0.1258	-0.0785	-89.7495	0.0037	0.0008	0.0017
angle:	8899	389090.47	-0.1257	-0.0787	-89.7502	0.0038	0.0006	0.0010
angle:	8900	389093.12	-0.1256	-0.0787	-89.7500	0.0039	0.0006	0.0012
angle:	8901	389095.74	-0.1257	-0.0785	-89.7501	0.0038	0.0008	0.0011
angle:	8902	389098.37	-0.1258	-0.0788	-89.7495	0.0036	0.0005	0.0017
angle:	8903	389101.01	-0.1258	-0.0789	-89.7497	0.0037	0.0004	0.0015
angle:	8904	389103.63	-0.1256	-0.0787	-89.7502	0.0038	0.0007	0.0010
angle:	8905	389106.25	-0.1258	-0.0788	-89.7503	0.0037	0.0005	0.0009
angle:	8906	389108.89	-0.1265	-0.0792	-89.7506	0.0030	0.0002	0.0006
angle:	8907	389111.55	-0.1265	-0.0791	-89.7509	0.0030	0.0002	0.0004
angle:	8908	389114.22	-0.1261	-0.0786	-89.7506	0.0034	0.0007	0.0006
angle:	8909	389116.90	-0.1259	-0.0794	-89.7514	0.0036	-0.0001	-0.0002

angle:	8910	389119.57	-0.1256	-0.0783	-89.7514	0.0039	0.0011	-0.0002
angle:	8911	389122.23	-0.1260	-0.0786	-89.7516	0.0034	0.0007	-0.0004

Average Boresight Angles:

Roll: -0.1295 deg

Pitch: -0.0793 deg

Yaw: -89.7512 deg

Boresight Angle RMS:

Roll: 0.0013 deg

Pitch: 0.0009 deg

Yaw: 0.0027 deg

Success!!

Boresight Calculation finished