
AEROoffice V5.6.0 2018-03-06
Copyright by IGI mbH, 1996-2018

Dongle-ID: 3-3541217

Boresight Misalignment Calculations
17/09/2020 20:50:19

Project: Pol-Cal PNOA
Projectfile: C:\AEROofficeV51\PROYECTOS\07_PROYECTOS_EAGLE80\

Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\07_PROYECTOS_EAGLE80\Pol-Cal.aps
Event Mark File : C:\AEROofficeV51\PROYECTOS\07_PROYECTOS_EAGLE80\Pol-Cal.aom
AT Result File : C:\AEROofficeV51\PROYECTOS\07_PROYECTOS_EAGLE80\EQ_XYZOPK.TXT
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
504 usable events found

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

504 events with matching eventnumbers found.

Postion offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	496	139944.52	-0.069	0.101	-51.633	-0.069	0.101	-0.154
position:	497	139946.97	-0.072	0.090	-51.632	-0.072	0.090	-0.153
position:	498	139949.56	-0.078	0.059	-51.635	-0.078	0.059	-0.156
position:	499	139952.16	-0.060	0.071	-51.644	-0.060	0.071	-0.165
position:	500	139954.67	-0.059	0.052	-51.634	-0.059	0.052	-0.155
position:	501	139957.26	-0.082	0.041	-51.654	-0.082	0.041	-0.175
position:	502	139959.76	-0.083	0.013	-51.670	-0.083	0.013	-0.191
position:	503	139962.38	-0.087	0.015	-51.686	-0.087	0.015	-0.207
position:	504	139964.76	-0.098	0.012	-51.702	-0.098	0.012	-0.223
position:	416	139494.23	0.086	-0.011	-51.789	0.086	-0.011	-0.310
position:	417	139496.93	0.061	-0.030	-51.796	0.061	-0.030	-0.317
position:	418	139499.64	0.059	-0.027	-51.792	0.059	-0.027	-0.313
position:	419	139502.24	0.048	-0.009	-51.747	0.048	-0.009	-0.268
position:	420	139504.93	0.047	0.009	-51.744	0.047	0.009	-0.265
position:	421	139507.63	0.056	0.019	-51.717	0.056	0.019	-0.238
position:	422	139510.24	0.052	0.013	-51.701	0.052	0.013	-0.222
position:	423	139512.94	0.046	0.016	-51.697	0.046	0.016	-0.218
position:	424	139515.64	0.068	0.020	-51.674	0.068	0.020	-0.195
position:	425	139518.33	0.085	0.009	-51.664	0.085	0.009	-0.185
position:	426	139521.03	0.095	0.014	-51.666	0.095	0.014	-0.187
position:	427	139523.73	0.082	-0.003	-51.660	0.082	-0.003	-0.181
position:	428	139526.53	0.057	0.007	-51.641	0.057	0.007	-0.162
position:	429	139529.23	0.050	0.017	-51.636	0.050	0.017	-0.157
position:	430	139532.04	0.056	-0.010	-51.606	0.056	-0.010	-0.127
position:	468	139799.79	0.045	-0.048	-51.762	0.045	-0.048	-0.282
position:	469	139802.39	0.104	-0.060	-51.745	0.104	-0.060	-0.266
position:	470	139804.89	0.075	-0.033	-51.744	0.075	-0.033	-0.265
position:	471	139807.40	0.104	-0.037	-51.723	0.104	-0.037	-0.244
position:	472	139809.89	0.110	-0.012	-51.727	0.110	-0.012	-0.248
position:	473	139812.39	0.043	-0.029	-51.722	0.043	-0.029	-0.243
position:	474	139814.89	0.051	-0.004	-51.707	0.051	-0.004	-0.228
position:	475	139817.39	0.061	-0.011	-51.708	0.061	-0.011	-0.229
position:	476	139819.99	0.081	0.014	-51.705	0.081	0.014	-0.226
position:	477	139822.52	0.094	-0.007	-51.687	0.094	-0.007	-0.208
position:	478	139824.99	0.069	0.029	-51.680	0.069	0.029	-0.201
position:	479	139827.58	0.050	0.064	-51.666	0.050	0.064	-0.187
position:	480	139830.08	0.035	0.050	-51.652	0.035	0.050	-0.173
position:	481	139832.69	0.054	0.022	-51.633	0.054	0.022	-0.154
position:	482	139835.19	0.063	0.044	-51.624	0.063	0.044	-0.145
position:	483	139837.78	0.055	0.013	-51.620	0.055	0.013	-0.141
position:	484	139840.39	0.042	0.009	-51.594	0.042	0.009	-0.115

position:	485	139842.98	0.070	0.021	-51.584	0.070	0.021	-0.105
position:	486	139845.59	0.071	0.036	-51.585	0.071	0.036	-0.106
position:	487	139848.27	0.088	0.035	-51.566	0.088	0.035	-0.087
position:	488	139850.88	0.062	0.043	-51.553	0.062	0.043	-0.074
position:	489	139853.53	0.035	0.030	-51.540	0.035	0.030	-0.061
position:	490	139856.08	0.036	0.056	-51.525	0.036	0.056	-0.046
position:	491	139858.68	0.053	0.050	-51.513	0.053	0.050	-0.034
position:	492	139861.38	0.035	0.057	-51.496	0.035	0.057	-0.017
position:	493	139863.99	0.057	0.036	-51.478	0.057	0.036	0.001
position:	494	139866.67	0.066	0.011	-51.472	0.066	0.011	0.007
position:	495	139869.28	0.068	-0.004	-51.456	0.067	-0.004	0.023
position:	382	139314.77	-0.031	0.051	-51.578	-0.031	0.051	-0.099
position:	383	139317.36	-0.039	0.048	-51.572	-0.039	0.048	-0.093
position:	384	139319.96	-0.007	0.036	-51.567	-0.007	0.036	-0.088
position:	385	139322.56	-0.024	0.039	-51.558	-0.024	0.039	-0.079
position:	386	139325.07	-0.052	0.050	-51.563	-0.052	0.050	-0.084
position:	387	139327.57	-0.075	0.025	-51.557	-0.075	0.025	-0.078
position:	388	139329.96	-0.039	0.044	-51.565	-0.039	0.044	-0.086
position:	389	139332.51	-0.040	0.039	-51.588	-0.040	0.039	-0.109
position:	390	139334.87	-0.053	0.034	-51.596	-0.053	0.034	-0.117
position:	391	139337.27	-0.094	0.016	-51.589	-0.094	0.016	-0.110
position:	392	139339.77	-0.068	0.033	-51.606	-0.068	0.033	-0.127
position:	393	139342.16	-0.121	0.032	-51.594	-0.121	0.032	-0.115
position:	394	139344.56	-0.079	0.024	-51.624	-0.079	0.024	-0.145
position:	395	139346.97	-0.088	0.019	-51.652	-0.088	0.019	-0.173
position:	396	139349.51	-0.097	0.013	-51.672	-0.097	0.013	-0.193
position:	397	139351.86	-0.063	0.027	-51.662	-0.063	0.027	-0.183
position:	398	139354.35	-0.071	0.036	-51.678	-0.071	0.036	-0.199
position:	399	139356.85	-0.025	0.006	-51.702	-0.025	0.006	-0.223
position:	400	139359.37	-0.046	0.007	-51.708	-0.046	0.007	-0.229
position:	401	139361.96	-0.067	0.002	-51.717	-0.068	0.002	-0.238
position:	402	139364.55	-0.050	0.001	-51.711	-0.050	0.001	-0.232
position:	403	139367.05	-0.035	-0.018	-51.742	-0.035	-0.018	-0.263
position:	404	139369.56	-0.029	-0.010	-51.737	-0.029	-0.010	-0.258
position:	405	139372.06	-0.072	-0.014	-51.741	-0.072	-0.014	-0.262
position:	406	139374.56	-0.027	-0.019	-51.757	-0.027	-0.019	-0.278
position:	407	139376.95	-0.035	-0.015	-51.773	-0.035	-0.015	-0.294
position:	408	139379.36	-0.034	-0.051	-51.765	-0.034	-0.051	-0.286
position:	409	139381.86	-0.047	-0.037	-51.757	-0.047	-0.037	-0.277
position:	410	139384.26	-0.026	-0.029	-51.783	-0.026	-0.029	-0.304
position:	411	139386.65	-0.036	-0.036	-51.808	-0.036	-0.036	-0.329
position:	412	139389.05	-0.028	-0.055	-51.804	-0.028	-0.055	-0.325
position:	413	139391.45	-0.038	-0.065	-51.808	-0.038	-0.065	-0.329
position:	414	139393.96	-0.069	-0.051	-51.820	-0.069	-0.051	-0.341
position:	415	139396.35	-0.042	-0.038	-51.834	-0.042	-0.038	-0.355
position:	431	139627.52	-0.156	0.078	-51.467	-0.156	0.078	0.012
position:	432	139630.02	-0.164	0.147	-51.475	-0.164	0.147	0.004
position:	433	139632.61	-0.122	0.119	-51.495	-0.122	0.119	-0.016
position:	434	139635.11	-0.124	0.107	-51.501	-0.124	0.107	-0.022
position:	435	139637.61	-0.102	0.053	-51.518	-0.102	0.053	-0.038
position:	436	139640.12	-0.102	0.061	-51.529	-0.102	0.061	-0.050
position:	437	139642.62	-0.053	0.032	-51.537	-0.053	0.032	-0.058
position:	438	139645.12	-0.087	0.039	-51.546	-0.087	0.039	-0.067
position:	439	139647.62	-0.088	0.038	-51.541	-0.088	0.038	-0.062
position:	440	139650.01	-0.082	0.042	-51.549	-0.082	0.042	-0.070
position:	441	139652.52	-0.086	0.029	-51.554	-0.086	0.029	-0.075
position:	442	139654.91	-0.076	0.030	-51.572	-0.076	0.030	-0.093
position:	443	139657.41	-0.071	0.037	-51.577	-0.071	0.037	-0.098
position:	444	139659.87	-0.108	0.009	-51.588	-0.108	0.009	-0.109
position:	445	139662.32	-0.079	0.001	-51.608	-0.079	0.001	-0.129
position:	446	139664.72	-0.072	0.003	-51.606	-0.072	0.003	-0.127
position:	447	139667.11	-0.084	-0.003	-51.597	-0.084	-0.003	-0.118
position:	448	139669.61	-0.035	0.021	-51.639	-0.035	0.021	-0.159
position:	449	139672.01	-0.055	-0.002	-51.645	-0.055	-0.002	-0.166
position:	450	139674.52	-0.043	0.018	-51.646	-0.043	0.018	-0.167
position:	451	139676.91	-0.064	-0.004	-51.648	-0.064	-0.004	-0.169
position:	452	139679.41	-0.076	0.017	-51.648	-0.076	0.017	-0.169
position:	453	139681.91	-0.057	0.004	-51.659	-0.057	0.004	-0.180
position:	454	139684.30	-0.065	0.004	-51.665	-0.065	0.004	-0.186
position:	455	139686.80	-0.086	0.012	-51.682	-0.086	0.012	-0.203
position:	456	139689.41	-0.094	0.018	-51.695	-0.094	0.018	-0.216
position:	457	139691.91	-0.101	0.039	-51.701	-0.101	0.039	-0.222
position:	458	139694.41	-0.106	0.043	-51.708	-0.106	0.043	-0.228
position:	459	139696.81	-0.080	0.062	-51.740	-0.080	0.062	-0.261
position:	460	139699.40	-0.090	0.012	-51.749	-0.090	0.012	-0.270
position:	461	139701.90	-0.067	0.049	-51.761	-0.067	0.049	-0.282
position:	462	139704.52	-0.069	0.015	-51.770	-0.069	0.015	-0.291
position:	463	139707.01	-0.052	-0.007	-51.779	-0.052	-0.007	-0.300
position:	464	139709.60	-0.040	-0.030	-51.786	-0.040	-0.030	-0.307
position:	465	139712.00	-0.073	-0.044	-51.797	-0.073	-0.044	-0.318
position:	466	139714.60	-0.066	-0.037	-51.801	-0.066	-0.037	-0.322
position:	467	139716.91	-0.066	-0.021	-51.808	-0.066	-0.021	-0.329
position:	344	139126.81	0.092	-0.052	-51.850	0.092	-0.052	-0.371
position:	345	139129.31	0.122	-0.041	-51.812	0.122	-0.041	-0.333
position:	346	139131.81	0.094	-0.038	-51.786	0.094	-0.038	-0.307
position:	347	139134.40	0.099	-0.022	-51.772	0.099	-0.022	-0.293
position:	348	139137.00	0.115	-0.015	-51.764	0.115	-0.015	-0.285
position:	349	139139.69	0.117	-0.013	-51.751	0.117	-0.013	-0.272
position:	350	139142.39	0.139	-0.018	-51.717	0.139	-0.018	-0.238
position:	351	139145.00	0.134	-0.007	-51.723	0.134	-0.007	-0.244
position:	352	139147.70	0.120	-0.038	-51.711	0.120	-0.038	-0.232
position:	353	139150.29	0.114	-0.013	-51.703	0.114	-0.013	-0.224

position:	354	139152.99	0.093	-0.021	-51.708	0.093	-0.021	-0.229
position:	355	139155.70	0.121	-0.030	-51.708	0.121	-0.030	-0.229
position:	356	139158.40	0.129	-0.009	-51.686	0.129	-0.009	-0.207
position:	357	139160.99	0.115	-0.011	-51.664	0.115	-0.011	-0.185
position:	358	139163.69	0.094	-0.004	-51.682	0.094	-0.004	-0.203
position:	359	139166.39	0.095	0.004	-51.666	0.095	0.004	-0.187
position:	360	139168.98	0.086	-0.004	-51.663	0.086	-0.004	-0.184
position:	361	139171.59	0.104	0.006	-51.650	0.104	0.006	-0.171
position:	362	139174.19	0.110	0.005	-51.644	0.110	0.005	-0.165
position:	363	139176.89	0.108	0.007	-51.619	0.108	0.007	-0.140
position:	364	139179.52	0.078	0.024	-51.608	0.078	0.024	-0.129
position:	365	139182.09	0.120	0.002	-51.562	0.120	0.002	-0.083
position:	366	139184.68	0.095	-0.006	-51.576	0.095	-0.006	-0.097
position:	367	139187.19	0.091	-0.006	-51.555	0.091	-0.006	-0.076
position:	368	139189.69	0.069	0.014	-51.551	0.069	0.014	-0.072
position:	369	139192.19	0.071	0.009	-51.545	0.071	0.009	-0.066
position:	370	139194.69	0.071	-0.007	-51.546	0.071	-0.007	-0.067
position:	371	139197.19	0.129	0.038	-51.525	0.129	0.038	-0.046
position:	372	139199.69	0.109	0.037	-51.528	0.109	0.037	-0.049
position:	373	139202.09	0.073	0.055	-51.517	0.073	0.055	-0.038
position:	374	139204.59	0.098	0.057	-51.497	0.098	0.057	-0.018
position:	375	139207.09	0.088	0.067	-51.509	0.088	0.067	-0.030
position:	376	139209.59	0.123	0.059	-51.502	0.123	0.059	-0.023
position:	377	139212.09	0.069	0.081	-51.491	0.069	0.081	-0.012
position:	378	139214.58	0.132	0.039	-51.474	0.132	0.039	0.005
position:	379	139217.18	0.109	0.013	-51.480	0.109	0.013	-0.001
position:	380	139219.68	0.098	0.000	-51.479	0.098	0.000	0.000
position:	381	139222.28	0.023	0.028	-51.477	0.023	0.028	0.002
position:	267	138731.26	0.131	-0.053	-51.721	0.131	-0.053	-0.242
position:	268	138733.86	0.145	-0.031	-51.707	0.145	-0.031	-0.228
position:	269	138736.52	0.136	-0.015	-51.694	0.136	-0.015	-0.215
position:	270	138739.16	0.137	-0.009	-51.674	0.137	-0.009	-0.195
position:	271	138741.86	0.112	0.017	-51.667	0.112	0.017	-0.188
position:	272	138744.56	0.089	0.013	-51.653	0.089	0.013	-0.174
position:	273	138747.26	0.082	0.009	-51.657	0.082	0.009	-0.178
position:	274	138749.96	0.096	0.016	-51.644	0.096	0.016	-0.165
position:	275	138752.76	0.100	0.016	-51.620	0.100	0.016	-0.141
position:	276	138755.46	0.118	0.015	-51.600	0.118	0.015	-0.121
position:	277	138758.16	0.137	-0.012	-51.602	0.137	-0.012	-0.123
position:	278	138760.86	0.118	-0.008	-51.599	0.118	-0.008	-0.120
position:	279	138763.55	0.125	-0.014	-51.583	0.125	-0.014	-0.104
position:	280	138766.16	0.123	0.004	-51.575	0.123	0.004	-0.096
position:	281	138768.86	0.100	0.027	-51.571	0.100	0.027	-0.092
position:	282	138771.51	0.076	0.006	-51.566	0.076	0.006	-0.087
position:	283	138774.06	0.139	0.007	-51.561	0.139	0.007	-0.082
position:	284	138776.65	0.111	0.003	-51.550	0.111	0.003	-0.071
position:	285	138779.26	0.133	0.000	-51.538	0.133	0.000	-0.059
position:	286	138781.76	0.121	0.007	-51.543	0.121	0.007	-0.064
position:	287	138784.35	0.094	0.009	-51.542	0.094	0.009	-0.063
position:	288	138786.85	0.092	0.004	-51.544	0.092	0.004	-0.065
position:	289	138789.50	0.083	0.012	-51.532	0.083	0.012	-0.053
position:	290	138791.96	0.066	0.027	-51.512	0.066	0.027	-0.033
position:	291	138794.55	0.048	-0.007	-51.521	0.048	-0.007	-0.042
position:	292	138797.05	0.062	-0.009	-51.504	0.062	-0.009	-0.025
position:	293	138799.55	0.110	0.020	-51.491	0.110	0.020	-0.012
position:	294	138802.15	0.109	0.036	-51.477	0.109	0.036	0.002
position:	295	138804.65	0.091	0.041	-51.468	0.091	0.041	0.011
position:	296	138807.24	0.135	0.064	-51.457	0.135	0.064	0.022
position:	297	138809.74	0.082	0.075	-51.449	0.082	0.075	0.030
position:	298	138812.35	0.126	0.051	-51.430	0.126	0.051	0.049
position:	299	138814.94	0.113	0.043	-51.417	0.113	0.043	0.062
position:	300	138817.55	0.100	0.018	-51.385	0.100	0.018	0.094
position:	301	138820.14	0.083	0.002	-51.372	0.083	0.002	0.108
position:	302	138822.75	0.086	-0.020	-51.355	0.086	-0.020	0.124
position:	303	138825.34	0.058	-0.002	-51.349	0.058	-0.002	0.130
position:	304	138827.95	0.077	0.010	-51.321	0.077	0.010	0.158
position:	189	138358.32	0.106	-0.016	-51.666	0.106	-0.016	-0.186
position:	190	138360.83	0.085	-0.035	-51.653	0.085	-0.035	-0.174
position:	191	138363.42	0.112	-0.036	-51.620	0.112	-0.036	-0.141
position:	192	138366.12	0.097	-0.047	-51.666	0.097	-0.047	-0.187
position:	193	138368.72	0.082	-0.048	-51.588	0.082	-0.048	-0.108
position:	194	138371.42	0.144	-0.040	-51.591	0.144	-0.040	-0.112
position:	195	138374.02	0.158	-0.042	-51.586	0.158	-0.042	-0.107
position:	196	138376.62	0.125	-0.061	-51.592	0.125	-0.061	-0.113
position:	197	138379.32	0.086	-0.089	-51.574	0.086	-0.089	-0.095
position:	198	138381.91	0.106	-0.052	-51.559	0.106	-0.052	-0.080
position:	199	138384.61	0.131	-0.041	-51.548	0.131	-0.041	-0.069
position:	200	138387.22	0.102	-0.041	-51.544	0.102	-0.041	-0.065
position:	201	138389.81	0.126	-0.040	-51.538	0.126	-0.040	-0.059
position:	202	138392.42	0.158	-0.041	-51.526	0.158	-0.041	-0.047
position:	203	138395.02	0.116	-0.036	-51.512	0.116	-0.036	-0.032
position:	204	138397.62	0.101	-0.036	-51.509	0.101	-0.036	-0.030
position:	205	138400.12	0.127	-0.027	-51.510	0.127	-0.027	-0.031
position:	206	138402.72	0.102	-0.026	-51.508	0.102	-0.026	-0.029
position:	207	138405.22	0.087	-0.019	-51.506	0.087	-0.019	-0.027
position:	208	138407.71	0.086	-0.001	-51.489	0.086	-0.001	-0.010
position:	209	138410.21	0.101	0.012	-51.494	0.101	0.012	-0.015
position:	210	138412.82	0.097	-0.003	-51.471	0.097	-0.003	0.008
position:	211	138415.31	0.076	0.000	-51.456	0.076	0.000	0.023
position:	212	138417.91	0.065	0.011	-51.436	0.065	0.011	0.043
position:	213	138420.40	0.058	0.009	-51.429	0.058	0.009	0.050
position:	214	138422.90	0.113	-0.029	-51.411	0.113	-0.029	0.068

position:	215	138425.53	0.126	-0.008	-51.399	0.126	-0.008	0.080
position:	216	138428.01	0.118	0.001	-51.385	0.118	0.001	0.094
position:	217	138430.60	0.149	-0.008	-51.377	0.149	-0.008	0.102
position:	218	138433.12	0.115	-0.007	-51.373	0.115	-0.007	0.106
position:	219	138435.71	0.085	-0.030	-51.374	0.085	-0.030	0.105
position:	220	138438.21	0.080	-0.042	-51.354	0.080	-0.042	0.125
position:	221	138440.80	0.120	-0.035	-51.346	0.120	-0.035	0.133
position:	222	138443.41	0.103	-0.025	-51.323	0.103	-0.025	0.156
position:	223	138446.11	0.124	-0.075	-51.308	0.124	-0.075	0.171
position:	224	138448.71	0.159	-0.093	-51.290	0.159	-0.093	0.189
position:	225	138451.31	0.176	-0.094	-51.275	0.176	-0.094	0.204
position:	226	138454.01	0.204	-0.168	-51.281	0.204	-0.168	0.198
position:	305	138926.43	-0.142	-0.009	-51.447	-0.142	-0.009	0.032
position:	306	138929.13	-0.182	-0.012	-51.448	-0.182	-0.012	0.031
position:	307	138931.73	-0.159	-0.018	-51.450	-0.159	-0.018	0.029
position:	308	138934.34	-0.079	0.035	-51.409	-0.079	0.035	0.070
position:	309	138937.03	-0.043	0.023	-51.396	-0.043	0.023	0.083
position:	310	138939.62	-0.032	-0.004	-51.381	-0.032	-0.004	0.098
position:	311	138942.24	-0.068	0.005	-51.392	-0.068	0.005	0.087
position:	312	138944.82	-0.042	-0.007	-51.356	-0.042	-0.007	0.123
position:	313	138947.42	-0.085	-0.011	-51.380	-0.085	-0.011	0.099
position:	314	138949.93	-0.088	-0.009	-51.379	-0.088	-0.009	0.100
position:	315	138952.62	-0.113	0.029	-51.393	-0.113	0.029	0.086
position:	316	138955.13	-0.077	0.009	-51.408	-0.077	0.009	0.071
position:	317	138957.64	-0.102	-0.013	-51.391	-0.102	-0.013	0.088
position:	318	138960.22	-0.092	-0.034	-51.407	-0.092	-0.034	0.072
position:	319	138962.72	-0.086	-0.040	-51.410	-0.086	-0.040	0.069
position:	320	138965.33	-0.082	-0.003	-51.440	-0.082	-0.003	0.039
position:	321	138967.92	-0.064	-0.033	-51.455	-0.064	-0.033	0.024
position:	322	138970.53	-0.058	-0.032	-51.451	-0.058	-0.032	0.028
position:	323	138973.03	-0.046	-0.041	-51.465	-0.046	-0.041	0.014
position:	324	138975.62	-0.078	-0.060	-51.455	-0.078	-0.060	0.024
position:	325	138978.02	-0.034	-0.039	-51.457	-0.034	-0.039	0.022
position:	326	138980.62	-0.035	-0.050	-51.474	-0.035	-0.050	0.005
position:	327	138983.02	-0.084	-0.048	-51.472	-0.084	-0.048	0.007
position:	328	138985.61	-0.077	-0.041	-51.493	-0.077	-0.041	-0.014
position:	329	138988.11	-0.091	-0.001	-51.507	-0.091	-0.001	-0.028
position:	330	138990.61	-0.095	-0.056	-51.514	-0.095	-0.056	-0.035
position:	331	138993.22	-0.065	-0.057	-51.509	-0.065	-0.057	-0.030
position:	332	138995.72	-0.059	-0.035	-51.527	-0.059	-0.035	-0.048
position:	333	138998.22	-0.048	-0.035	-51.523	-0.048	-0.035	-0.044
position:	334	139000.81	-0.053	-0.037	-51.537	-0.054	-0.037	-0.058
position:	335	139003.42	-0.061	-0.006	-51.542	-0.061	-0.006	-0.063
position:	336	139006.01	-0.081	-0.027	-51.549	-0.081	-0.027	-0.070
position:	337	139008.63	-0.058	-0.011	-51.552	-0.058	-0.011	-0.072
position:	338	139011.32	-0.054	-0.013	-51.571	-0.054	-0.013	-0.092
position:	339	139014.02	-0.043	-0.037	-51.563	-0.043	-0.037	-0.084
position:	340	139016.71	-0.067	-0.028	-51.562	-0.067	-0.028	-0.083
position:	341	139019.41	-0.075	-0.013	-51.579	-0.075	-0.013	-0.100
position:	342	139022.11	-0.059	0.013	-51.591	-0.059	0.013	-0.112
position:	343	139024.82	-0.080	0.007	-51.591	-0.080	0.007	-0.112
position:	227	138546.99	-0.136	0.049	-51.350	-0.136	0.049	0.129
position:	228	138549.58	-0.094	0.023	-51.351	-0.094	0.023	0.128
position:	229	138552.19	-0.096	0.017	-51.358	-0.096	0.017	0.121
position:	230	138554.69	-0.081	0.018	-51.355	-0.081	0.018	0.124
position:	231	138557.29	-0.094	0.004	-51.369	-0.094	0.004	0.110
position:	232	138559.89	-0.083	0.026	-51.379	-0.083	0.026	0.100
position:	233	138562.40	-0.081	0.017	-51.382	-0.081	0.017	0.097
position:	234	138564.98	-0.059	0.026	-51.383	-0.059	0.026	0.096
position:	235	138567.59	-0.079	0.030	-51.385	-0.079	0.030	0.094
position:	236	138570.09	-0.050	-0.014	-51.378	-0.050	-0.014	0.101
position:	237	138572.59	-0.100	-0.013	-51.382	-0.100	-0.013	0.097
position:	238	138575.09	-0.117	-0.008	-51.390	-0.117	-0.008	0.089
position:	239	138577.59	-0.107	-0.049	-51.395	-0.107	-0.049	0.084
position:	240	138580.08	-0.104	-0.030	-51.398	-0.104	-0.030	0.081
position:	241	138582.58	-0.103	-0.012	-51.401	-0.103	-0.012	0.078
position:	242	138585.08	-0.080	-0.003	-51.412	-0.080	-0.003	0.067
position:	243	138587.52	-0.091	0.018	-51.404	-0.091	0.018	0.075
position:	244	138589.89	-0.063	-0.006	-51.436	-0.063	-0.006	0.043
position:	245	138592.19	-0.066	-0.007	-51.442	-0.066	-0.007	0.037
position:	246	138594.58	-0.036	0.000	-51.455	-0.036	0.000	0.024
position:	247	138596.89	-0.048	0.028	-51.467	-0.048	0.028	0.012
position:	248	138599.28	-0.068	0.016	-51.468	-0.068	0.016	0.011
position:	249	138601.59	-0.066	-0.034	-51.475	-0.066	-0.034	0.004
position:	250	138603.98	-0.086	-0.019	-51.481	-0.086	-0.019	-0.002
position:	251	138606.52	-0.096	-0.002	-51.497	-0.096	-0.002	-0.018
position:	252	138608.88	-0.073	-0.025	-51.505	-0.073	-0.025	-0.026
position:	253	138611.29	-0.080	-0.005	-51.505	-0.080	-0.005	-0.026
position:	254	138613.79	-0.079	-0.017	-51.517	-0.079	-0.017	-0.038
position:	255	138616.28	-0.054	-0.030	-51.526	-0.054	-0.030	-0.047
position:	256	138618.79	-0.054	-0.032	-51.532	-0.054	-0.032	-0.053
position:	257	138621.28	-0.045	-0.006	-51.534	-0.045	-0.006	-0.055
position:	258	138623.87	-0.119	-0.002	-51.542	-0.119	-0.002	-0.063
position:	259	138626.37	-0.132	-0.018	-51.542	-0.132	-0.018	-0.063
position:	260	138628.98	-0.110	-0.035	-51.550	-0.110	-0.035	-0.071
position:	261	138631.57	-0.091	-0.027	-51.554	-0.091	-0.027	-0.075
position:	262	138634.18	-0.032	-0.027	-51.581	-0.032	-0.027	-0.102
position:	263	138636.77	-0.091	-0.006	-51.565	-0.091	-0.006	-0.086
position:	264	138639.38	-0.055	0.003	-51.575	-0.055	0.003	-0.096
position:	265	138641.97	-0.082	-0.003	-51.565	-0.082	-0.003	-0.086
position:	266	138644.52	-0.063	0.008	-51.558	-0.063	0.008	-0.079
position:	144	138167.06	-0.092	0.058	-51.319	-0.092	0.058	0.160

position:	145	138169.65	-0.103	0.060	-51.315	-0.103	0.060	0.164
position:	146	138172.26	-0.110	0.058	-51.314	-0.110	0.058	0.165
position:	147	138174.85	-0.075	0.070	-51.306	-0.075	0.070	0.173
position:	148	138177.46	-0.102	0.043	-51.311	-0.102	0.043	0.168
position:	149	138180.14	-0.106	0.046	-51.328	-0.106	0.046	0.151
position:	150	138182.75	-0.093	0.056	-51.318	-0.093	0.056	0.161
position:	151	138185.34	-0.090	0.062	-51.322	-0.090	0.062	0.157
position:	152	138187.95	-0.106	0.082	-51.330	-0.106	0.082	0.149
position:	153	138190.46	-0.090	0.059	-51.326	-0.090	0.059	0.153
position:	154	138192.95	-0.092	0.042	-51.308	-0.092	0.042	0.171
position:	155	138195.45	-0.101	0.024	-51.317	-0.101	0.024	0.162
position:	156	138197.85	-0.086	0.023	-51.324	-0.086	0.023	0.155
position:	157	138200.35	-0.134	-0.002	-51.319	-0.134	-0.002	0.160
position:	158	138202.65	-0.117	-0.011	-51.328	-0.117	-0.011	0.151
position:	159	138205.15	-0.097	-0.017	-51.320	-0.097	-0.017	0.159
position:	160	138207.54	-0.119	0.005	-51.342	-0.119	0.005	0.137
position:	161	138209.95	-0.095	-0.007	-51.350	-0.095	-0.007	0.129
position:	162	138212.35	-0.092	0.021	-51.353	-0.092	0.021	0.126
position:	163	138214.65	-0.072	0.020	-51.375	-0.072	0.020	0.104
position:	164	138217.05	-0.080	0.022	-51.375	-0.080	0.022	0.104
position:	165	138219.44	-0.098	0.015	-51.383	-0.098	0.015	0.096
position:	166	138221.84	-0.067	0.027	-51.402	-0.067	0.027	0.077
position:	167	138224.14	-0.070	0.005	-51.402	-0.070	0.005	0.077
position:	168	138226.54	-0.077	0.013	-51.412	-0.077	0.013	0.067
position:	169	138228.94	-0.092	0.000	-51.411	-0.092	0.000	0.068
position:	170	138231.24	-0.091	0.011	-51.440	-0.091	0.011	0.039
position:	171	138233.74	-0.079	-0.008	-51.434	-0.079	-0.008	0.045
position:	172	138236.15	-0.117	-0.028	-51.456	-0.117	-0.028	0.023
position:	173	138238.64	-0.108	-0.015	-51.467	-0.108	-0.015	0.012
position:	174	138241.03	-0.105	0.013	-51.478	-0.105	0.013	0.001
position:	175	138243.46	-0.080	-0.002	-51.480	-0.080	-0.002	-0.001
position:	176	138245.94	-0.039	0.003	-51.480	-0.039	0.003	-0.001
position:	177	138248.43	-0.061	0.003	-51.477	-0.061	0.003	0.002
position:	178	138250.84	-0.045	-0.017	-51.489	-0.045	-0.017	-0.010
position:	179	138253.34	-0.062	-0.031	-51.477	-0.062	-0.031	0.002
position:	180	138255.84	-0.068	-0.028	-51.474	-0.068	-0.028	0.006
position:	181	138258.43	-0.077	-0.017	-51.481	-0.077	-0.017	-0.002
position:	182	138260.93	-0.071	-0.009	-51.489	-0.071	-0.009	-0.010
position:	183	138263.53	-0.078	-0.037	-51.466	-0.078	-0.037	0.013
position:	184	138266.04	-0.081	-0.012	-51.479	-0.081	-0.012	0.000
position:	185	138268.63	-0.098	-0.005	-51.481	-0.098	-0.005	-0.002
position:	186	138271.14	-0.082	0.009	-51.492	-0.082	0.009	-0.013
position:	187	138273.64	-0.119	-0.007	-51.490	-0.119	-0.007	-0.011
position:	188	138276.14	-0.113	-0.004	-51.476	-0.113	-0.004	0.003
position:	71	137809.61	-0.112	0.107	-51.305	-0.112	0.107	0.174
position:	72	137812.31	-0.137	0.067	-51.298	-0.137	0.067	0.181
position:	73	137815.01	-0.125	0.063	-51.304	-0.125	0.063	0.175
position:	74	137817.61	-0.109	0.060	-51.293	-0.109	0.060	0.186
position:	75	137820.31	-0.099	0.045	-51.307	-0.099	0.045	0.172
position:	76	137823.01	-0.090	0.039	-51.322	-0.090	0.039	0.157
position:	77	137825.60	-0.087	0.051	-51.319	-0.087	0.051	0.160
position:	78	137828.40	-0.084	0.019	-51.321	-0.084	0.019	0.158
position:	79	137831.10	-0.067	0.009	-51.314	-0.067	0.009	0.165
position:	80	137833.80	-0.078	0.035	-51.319	-0.078	0.035	0.160
position:	81	137836.41	-0.104	-0.003	-51.316	-0.104	-0.003	0.163
position:	82	137839.11	-0.118	-0.009	-51.336	-0.118	-0.009	0.143
position:	83	137841.81	-0.107	-0.025	-51.340	-0.107	-0.025	0.139
position:	84	137844.61	-0.122	-0.019	-51.346	-0.122	-0.019	0.133
position:	85	137847.20	-0.114	0.023	-51.339	-0.114	0.023	0.140
position:	86	137849.81	-0.067	0.038	-51.354	-0.067	0.038	0.125
position:	87	137852.40	-0.083	0.026	-51.348	-0.083	0.026	0.131
position:	88	137855.01	-0.068	0.014	-51.368	-0.068	0.014	0.111
position:	89	137857.60	-0.082	0.031	-51.370	-0.082	0.031	0.109
position:	90	137860.10	-0.074	0.028	-51.379	-0.074	0.028	0.100
position:	91	137862.71	-0.045	0.017	-51.385	-0.045	0.017	0.094
position:	92	137865.30	-0.057	0.009	-51.386	-0.057	0.009	0.093
position:	93	137867.91	-0.093	0.008	-51.392	-0.093	0.008	0.087
position:	94	137870.41	-0.067	0.017	-51.411	-0.067	0.017	0.068
position:	95	137873.00	-0.058	0.010	-51.410	-0.058	0.010	0.069
position:	96	137875.59	-0.048	-0.019	-51.417	-0.048	-0.019	0.062
position:	97	137878.20	-0.054	-0.001	-51.422	-0.054	-0.001	0.057
position:	98	137880.90	-0.064	-0.008	-51.422	-0.064	-0.008	0.057
position:	99	137883.60	-0.071	-0.006	-51.445	-0.071	-0.006	0.034
position:	100	137886.10	-0.045	-0.014	-51.451	-0.045	-0.014	0.028
position:	101	137888.80	-0.061	-0.019	-51.451	-0.061	-0.019	0.028
position:	102	137891.40	-0.064	-0.029	-51.449	-0.064	-0.029	0.030
position:	103	137894.00	-0.058	-0.028	-51.449	-0.058	-0.028	0.030
position:	104	137896.59	-0.035	-0.022	-51.436	-0.035	-0.022	0.043
position:	105	137899.09	-0.025	-0.022	-51.442	-0.025	-0.022	0.037
position:	106	137901.70	-0.019	-0.020	-51.440	-0.019	-0.020	0.039
position:	107	137904.29	-0.077	-0.015	-51.435	-0.077	-0.015	0.044
position:	108	137906.90	-0.080	0.023	-51.436	-0.080	0.023	0.043
position:	109	137909.59	-0.068	-0.042	-51.462	-0.068	-0.042	0.017
position:	110	137912.20	-0.093	-0.050	-51.465	-0.093	-0.050	0.014
position:	111	137914.91	-0.059	-0.033	-51.480	-0.059	-0.033	0.000
position:	112	137917.69	-0.045	-0.021	-51.484	-0.045	-0.021	-0.005
position:	113	137920.10	-0.045	-0.016	-51.467	-0.045	-0.016	0.012
position:	1	137360.68	0.130	-0.062	-51.437	0.130	-0.062	0.042
position:	2	137363.38	0.120	-0.066	-51.423	0.120	-0.066	0.056
position:	3	137365.97	0.124	-0.049	-51.415	0.124	-0.049	0.064
position:	4	137368.58	0.144	-0.061	-51.415	0.144	-0.061	0.064
position:	5	137371.17	0.136	-0.069	-51.397	0.136	-0.069	0.082

position:	6	137373.78	0.137	-0.057	-51.379	0.137	-0.057	0.100
position:	7	137376.37	0.101	-0.044	-51.380	0.101	-0.044	0.099
position:	8	137378.98	0.114	-0.049	-51.359	0.114	-0.049	0.120
position:	9	137381.57	0.108	-0.047	-51.362	0.108	-0.047	0.117
position:	10	137384.18	0.098	-0.041	-51.358	0.098	-0.041	0.121
position:	11	137386.77	0.098	-0.044	-51.338	0.098	-0.044	0.141
position:	12	137389.38	0.136	-0.050	-51.345	0.136	-0.050	0.134
position:	13	137392.07	0.115	-0.034	-51.333	0.115	-0.034	0.146
position:	14	137394.68	0.104	-0.032	-51.339	0.104	-0.032	0.140
position:	15	137397.27	0.115	-0.054	-51.335	0.115	-0.054	0.144
position:	16	137399.88	0.113	-0.054	-51.324	0.113	-0.054	0.155
position:	17	137402.38	0.110	-0.051	-51.317	0.110	-0.051	0.162
position:	18	137404.97	0.113	-0.047	-51.312	0.113	-0.047	0.167
position:	19	137407.51	0.073	-0.038	-51.310	0.073	-0.038	0.169
position:	20	137409.97	0.040	-0.019	-51.293	0.040	-0.019	0.186
position:	21	137412.58	0.057	-0.022	-51.244	0.057	-0.022	0.235
position:	22	137415.07	0.070	-0.028	-51.263	0.070	-0.028	0.216
position:	23	137417.57	0.084	-0.016	-51.249	0.084	-0.016	0.230
position:	24	137420.07	0.099	-0.020	-51.244	0.099	-0.020	0.235
position:	25	137422.57	0.134	-0.006	-51.257	0.134	-0.006	0.223
position:	26	137425.07	0.095	0.024	-51.254	0.095	0.024	0.225
position:	27	137427.57	0.104	0.038	-51.237	0.104	0.038	0.242
position:	28	137430.06	0.185	-0.014	-51.226	0.185	-0.014	0.253
position:	29	137432.56	0.198	-0.015	-51.248	0.198	-0.015	0.231
position:	30	137435.06	0.169	0.004	-51.243	0.169	0.004	0.237
position:	31	137437.57	0.166	-0.030	-51.232	0.166	-0.030	0.247
position:	32	137440.17	0.162	-0.037	-51.230	0.162	-0.037	0.249
position:	33	137442.67	0.185	-0.065	-51.206	0.185	-0.065	0.273
position:	114	138012.18	0.081	-0.023	-51.370	0.081	-0.023	0.109
position:	115	138014.88	0.111	-0.027	-51.365	0.111	-0.027	0.114
position:	116	138017.67	0.122	-0.014	-51.354	0.122	-0.014	0.125
position:	117	138020.53	0.122	0.001	-51.342	0.122	0.001	0.137
position:	118	138023.18	0.112	0.030	-51.327	0.112	0.030	0.152
position:	119	138025.98	0.094	0.008	-51.333	0.094	0.008	0.146
position:	120	138028.68	0.105	0.017	-51.318	0.105	0.017	0.161
position:	121	138031.38	0.117	0.011	-51.323	0.117	0.011	0.156
position:	122	138033.97	0.133	0.011	-51.322	0.133	0.011	0.157
position:	123	138036.57	0.093	-0.003	-51.316	0.093	-0.003	0.163
position:	124	138039.17	0.082	-0.017	-51.319	0.082	-0.017	0.160
position:	125	138041.76	0.084	-0.027	-51.307	0.084	-0.027	0.172
position:	126	138044.38	0.064	-0.023	-51.305	0.064	-0.023	0.174
position:	127	138047.09	0.063	-0.029	-51.299	0.063	-0.029	0.180
position:	128	138049.67	0.046	-0.023	-51.274	0.046	-0.023	0.205
position:	129	138052.28	0.052	-0.046	-51.278	0.052	-0.046	0.201
position:	130	138054.87	0.037	-0.031	-51.266	0.037	-0.031	0.213
position:	131	138057.57	0.055	-0.064	-51.261	0.055	-0.064	0.218
position:	132	138060.16	0.059	-0.050	-51.248	0.059	-0.050	0.231
position:	133	138062.77	0.074	-0.030	-51.256	0.074	-0.030	0.223
position:	134	138065.53	0.057	-0.014	-51.242	0.057	-0.014	0.237
position:	135	138068.06	0.093	-0.002	-51.228	0.093	-0.002	0.251
position:	136	138070.77	-0.029	-0.015	-51.203	-0.029	-0.015	0.276
position:	137	138073.51	-0.033	0.039	-51.218	-0.033	0.039	0.261
position:	138	138076.17	-0.009	0.030	-51.226	-0.009	0.030	0.253
position:	139	138078.77	-0.074	0.005	-51.215	-0.074	0.005	0.264
position:	140	138081.56	-0.054	0.025	-51.213	-0.054	0.025	0.266
position:	141	138084.16	0.107	-0.093	-51.180	0.107	-0.093	0.299
position:	142	138086.87	0.040	-0.110	-51.179	0.040	-0.110	0.300
position:	143	138089.50	0.025	-0.106	-51.179	0.025	-0.106	0.300
position:	34	137531.27	-0.147	0.085	-51.165	-0.147	0.085	0.314
position:	35	137533.96	-0.140	0.057	-51.184	-0.140	0.057	0.295
position:	36	137536.65	-0.088	0.040	-51.190	-0.088	0.040	0.290
position:	37	137539.35	-0.085	0.024	-51.197	-0.085	0.024	0.282
position:	38	137542.05	-0.081	0.021	-51.196	-0.081	0.021	0.283
position:	39	137544.75	-0.047	0.058	-51.188	-0.047	0.058	0.291
position:	40	137547.35	-0.087	0.070	-51.199	-0.087	0.070	0.280
position:	41	137549.95	-0.124	0.052	-51.205	-0.124	0.052	0.274
position:	42	137552.54	-0.123	0.060	-51.215	-0.123	0.060	0.264
position:	43	137555.15	-0.139	0.036	-51.224	-0.139	0.036	0.255
position:	44	137557.74	-0.116	0.013	-51.215	-0.116	0.013	0.264
position:	45	137560.35	-0.064	0.015	-51.212	-0.064	0.015	0.267
position:	46	137562.85	-0.092	0.027	-51.224	-0.092	0.027	0.255
position:	47	137565.35	-0.066	0.033	-51.237	-0.066	0.033	0.242
position:	48	137567.94	-0.093	0.017	-51.244	-0.093	0.017	0.235
position:	49	137570.44	-0.083	-0.005	-51.246	-0.083	-0.005	0.233
position:	50	137572.94	-0.100	0.017	-51.249	-0.100	0.017	0.230
position:	51	137575.52	-0.087	0.031	-51.243	-0.087	0.031	0.236
position:	52	137577.84	-0.070	0.034	-51.246	-0.070	0.034	0.233
position:	53	137580.34	-0.052	0.030	-51.251	-0.052	0.030	0.228
position:	54	137582.84	-0.079	0.064	-51.244	-0.079	0.064	0.235
position:	55	137585.25	-0.058	0.027	-51.265	-0.058	0.027	0.214
position:	56	137587.74	-0.095	0.044	-51.250	-0.095	0.044	0.229
position:	57	137590.34	-0.065	0.044	-51.260	-0.065	0.044	0.219
position:	58	137592.84	-0.059	0.027	-51.276	-0.059	0.027	0.203
position:	59	137694.83	0.059	-0.012	-51.273	0.059	-0.012	0.206
position:	60	137697.42	0.085	-0.022	-51.278	0.085	-0.022	0.201
position:	61	137700.12	0.057	-0.032	-51.285	0.057	-0.032	0.194
position:	62	137702.74	0.070	-0.032	-51.284	0.070	-0.032	0.195
position:	63	137705.42	0.056	-0.022	-51.272	0.056	-0.022	0.207
position:	64	137708.12	0.067	-0.016	-51.265	0.067	-0.016	0.214
position:	65	137710.82	0.073	-0.053	-51.260	0.073	-0.053	0.219
position:	66	137713.49	0.020	-0.051	-51.236	0.020	-0.051	0.243
position:	67	137716.13	0.020	-0.050	-51.234	0.020	-0.050	0.245

position:	68	137718.72	0.020	-0.055	-51.226	0.020	-0.055	0.253
position:	69	137721.42	0.025	-0.036	-51.218	0.025	-0.036	0.261
position:	70	137724.13	0.050	-0.043	-51.199	0.050	-0.043	0.280

Average position offset:

East: 0.000 m
North: 0.000 m
Alt: 0.000 m
Position offset RMS:
East: 0.091 m
North: 0.037 m
Alt: 0.062 m

Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	496	139944.52	0.1273	0.2918	-0.2975	-0.0025	0.0014	0.0007
angle:	497	139946.97	0.1271	0.2911	-0.2975	-0.0026	0.0007	0.0007
angle:	498	139949.56	0.1268	0.2912	-0.2971	-0.0030	0.0008	0.0012
angle:	499	139952.16	0.1270	0.2916	-0.2969	-0.0027	0.0012	0.0014
angle:	500	139954.67	0.1267	0.2913	-0.2961	-0.0031	0.0009	0.0021
angle:	501	139957.26	0.1262	0.2907	-0.2963	-0.0035	0.0003	0.0019
angle:	502	139959.76	0.1257	0.2910	-0.2965	-0.0040	0.0006	0.0018
angle:	503	139962.38	0.1255	0.2909	-0.2963	-0.0043	0.0005	0.0019
angle:	504	139964.76	0.1256	0.2903	-0.2958	-0.0041	-0.0001	0.0024
angle:	416	139494.23	0.1338	0.2901	-0.3030	0.0041	-0.0003	-0.0047
angle:	417	139496.93	0.1342	0.2898	-0.3029	0.0045	-0.0006	-0.0047
angle:	418	139499.64	0.1343	0.2903	-0.3027	0.0045	-0.0001	-0.0045
angle:	419	139502.24	0.1332	0.2909	-0.3022	0.0035	0.0005	-0.0040
angle:	420	139504.93	0.1332	0.2911	-0.3025	0.0034	0.0007	-0.0043
angle:	421	139507.63	0.1327	0.2906	-0.3019	0.0029	0.0002	-0.0037
angle:	422	139510.24	0.1327	0.2910	-0.3021	0.0030	0.0006	-0.0039
angle:	423	139512.94	0.1323	0.2915	-0.3021	0.0026	0.0011	-0.0038
angle:	424	139515.64	0.1322	0.2904	-0.3017	0.0024	0.0000	-0.0035
angle:	425	139518.33	0.1321	0.2893	-0.3021	0.0023	-0.0011	-0.0039
angle:	426	139521.03	0.1324	0.2896	-0.3020	0.0026	-0.0008	-0.0037
angle:	427	139523.73	0.1337	0.2904	-0.3022	0.0040	0.0000	-0.0040
angle:	428	139526.53	0.1338	0.2915	-0.3020	0.0041	0.0011	-0.0038
angle:	429	139529.23	0.1341	0.2919	-0.3017	0.0043	0.0015	-0.0035
angle:	430	139532.04	0.1354	0.2925	-0.3011	0.0056	0.0021	-0.0029
angle:	468	139799.79	0.1333	0.2916	-0.3021	0.0036	0.0012	-0.0039
angle:	469	139802.39	0.1347	0.2892	-0.3022	0.0049	-0.0012	-0.0040
angle:	470	139804.89	0.1349	0.2902	-0.3025	0.0051	-0.0002	-0.0043
angle:	471	139807.40	0.1352	0.2892	-0.3024	0.0054	-0.0012	-0.0041
angle:	472	139809.89	0.1341	0.2892	-0.3019	0.0044	-0.0012	-0.0036
angle:	473	139812.39	0.1341	0.2915	-0.3015	0.0043	0.0011	-0.0033
angle:	474	139814.89	0.1335	0.2917	-0.3011	0.0037	0.0013	-0.0029
angle:	475	139817.39	0.1342	0.2908	-0.3007	0.0044	0.0004	-0.0024
angle:	476	139819.99	0.1330	0.2902	-0.3011	0.0032	-0.0002	-0.0028
angle:	477	139822.52	0.1331	0.2893	-0.3008	0.0033	-0.0011	-0.0025
angle:	478	139824.99	0.1319	0.2901	-0.3012	0.0022	-0.0003	-0.0030
angle:	479	139827.58	0.1310	0.2901	-0.3007	0.0012	-0.0003	-0.0025
angle:	480	139830.08	0.1309	0.2906	-0.3008	0.0012	0.0002	-0.0025
angle:	481	139832.69	0.1328	0.2898	-0.3007	0.0031	-0.0006	-0.0025
angle:	482	139835.19	0.1324	0.2894	-0.3010	0.0027	-0.0010	-0.0028
angle:	483	139837.78	0.1339	0.2900	-0.3007	0.0041	-0.0004	-0.0024
angle:	484	139840.39	0.1334	0.2902	-0.3005	0.0036	-0.0003	-0.0023
angle:	485	139842.98	0.1337	0.2895	-0.3002	0.0039	-0.0009	-0.0020
angle:	486	139845.59	0.1336	0.2896	-0.3001	0.0038	-0.0008	-0.0019
angle:	487	139848.27	0.1334	0.2886	-0.3000	0.0036	-0.0018	-0.0018
angle:	488	139850.88	0.1331	0.2896	-0.2998	0.0033	-0.0008	-0.0016
angle:	489	139853.53	0.1326	0.2910	-0.2999	0.0029	0.0006	-0.0016
angle:	490	139856.08	0.1329	0.2911	-0.2997	0.0031	0.0007	-0.0015
angle:	491	139858.68	0.1333	0.2905	-0.2996	0.0035	0.0001	-0.0013
angle:	492	139861.38	0.1331	0.2921	-0.2987	0.0033	0.0017	-0.0005
angle:	493	139863.99	0.1337	0.2916	-0.2980	0.0039	0.0012	0.0003
angle:	494	139866.67	0.1342	0.2919	-0.2974	0.0044	0.0015	0.0009
angle:	495	139869.28	0.1349	0.2919	-0.2963	0.0052	0.0015	0.0019
angle:	382	139314.77	0.1290	0.2926	-0.2979	-0.0007	0.0022	0.0004
angle:	383	139317.36	0.1295	0.2923	-0.2977	-0.0003	0.0019	0.0005
angle:	384	139319.96	0.1297	0.2937	-0.2972	-0.0001	0.0033	0.0010
angle:	385	139322.56	0.1295	0.2923	-0.2973	-0.0002	0.0019	0.0009
angle:	386	139325.07	0.1296	0.2909	-0.2974	-0.0002	0.0005	0.0009
angle:	387	139327.57	0.1291	0.2900	-0.2976	-0.0007	-0.0004	0.0006
angle:	388	139329.96	0.1293	0.2917	-0.2974	-0.0005	0.0012	0.0009
angle:	389	139332.51	0.1289	0.2917	-0.2974	-0.0009	0.0013	0.0008
angle:	390	139334.87	0.1299	0.2908	-0.2974	0.0002	0.0004	0.0009
angle:	391	139337.27	0.1300	0.2887	-0.2970	0.0002	-0.0017	0.0012
angle:	392	139339.77	0.1309	0.2894	-0.2968	0.0012	-0.0010	0.0015
angle:	393	139342.16	0.1310	0.2877	-0.2966	0.0013	-0.0028	0.0016
angle:	394	139344.56	0.1306	0.2891	-0.2963	0.0008	-0.0013	0.0019
angle:	395	139346.97	0.1308	0.2890	-0.2962	0.0010	-0.0014	0.0020
angle:	396	139349.51	0.1298	0.2887	-0.2954	0.0000	-0.0017	0.0028
angle:	397	139351.86	0.1304	0.2897	-0.2950	0.0006	-0.0007	0.0032
angle:	398	139354.35	0.1315	0.2887	-0.2949	0.0017	-0.0017	0.0033
angle:	399	139356.85	0.1301	0.2904	-0.2949	0.0003	0.0000	0.0033
angle:	400	139359.37	0.1304	0.2895	-0.2947	0.0006	-0.0009	0.0035
angle:	401	139361.96	0.1300	0.2886	-0.2945	0.0002	-0.0018	0.0037
angle:	402	139364.55	0.1296	0.2897	-0.2940	-0.0001	-0.0007	0.0042
angle:	403	139367.05	0.1287	0.2902	-0.2941	-0.0011	-0.0002	0.0042

angle:	404	139369.56	0.1288	0.2907	-0.2939	-0.0010	0.0003	0.0043
angle:	405	139372.06	0.1280	0.2891	-0.2938	-0.0018	-0.0013	0.0044
angle:	406	139374.56	0.1292	0.2911	-0.2940	-0.0005	0.0007	0.0043
angle:	407	139376.95	0.1292	0.2910	-0.2944	-0.0005	0.0006	0.0039
angle:	408	139379.36	0.1284	0.2911	-0.2942	-0.0014	0.0007	0.0041
angle:	409	139381.86	0.1289	0.2903	-0.2941	-0.0009	-0.0001	0.0042
angle:	410	139384.26	0.1297	0.2907	-0.2940	-0.0001	0.0003	0.0043
angle:	411	139386.65	0.1300	0.2916	-0.2938	0.0002	0.0012	0.0045
angle:	412	139389.05	0.1295	0.2920	-0.2938	-0.0003	0.0016	0.0045
angle:	413	139391.45	0.1294	0.2919	-0.2932	-0.0004	0.0015	0.0051
angle:	414	139393.96	0.1297	0.2914	-0.2931	0.0000	0.0010	0.0052
angle:	415	139396.35	0.1305	0.2925	-0.2932	0.0007	0.0021	0.0050
angle:	431	139627.52	0.1373	0.2925	-0.3068	0.0075	0.0021	-0.0086
angle:	432	139630.02	0.1389	0.2916	-0.3069	0.0091	0.0012	-0.0086
angle:	433	139632.61	0.1368	0.2931	-0.3065	0.0071	0.0027	-0.0083
angle:	434	139635.11	0.1353	0.2924	-0.3058	0.0055	0.0020	-0.0075
angle:	435	139637.61	0.1327	0.2928	-0.3052	0.0029	0.0024	-0.0069
angle:	436	139640.12	0.1335	0.2921	-0.3048	0.0037	0.0017	-0.0066
angle:	437	139642.62	0.1323	0.2937	-0.3048	0.0025	0.0033	-0.0065
angle:	438	139645.12	0.1320	0.2917	-0.3045	0.0022	0.0013	-0.0063
angle:	439	139647.62	0.1312	0.2911	-0.3041	0.0014	0.0007	-0.0058
angle:	440	139650.01	0.1310	0.2912	-0.3040	0.0012	0.0008	-0.0057
angle:	441	139652.52	0.1306	0.2905	-0.3035	0.0009	0.0001	-0.0053
angle:	442	139654.91	0.1309	0.2905	-0.3031	0.0012	0.0001	-0.0049
angle:	443	139657.41	0.1301	0.2908	-0.3026	0.0003	0.0004	-0.0044
angle:	444	139659.87	0.1292	0.2892	-0.3023	-0.0005	-0.0012	-0.0040
angle:	445	139662.32	0.1293	0.2898	-0.3019	-0.0005	-0.0006	-0.0036
angle:	446	139664.72	0.1296	0.2900	-0.3014	-0.0001	-0.0004	-0.0031
angle:	447	139667.11	0.1291	0.2894	-0.3010	-0.0007	-0.0010	-0.0028
angle:	448	139669.61	0.1301	0.2910	-0.3010	0.0003	0.0006	-0.0027
angle:	449	139672.01	0.1292	0.2895	-0.3009	-0.0006	-0.0009	-0.0026
angle:	450	139674.52	0.1298	0.2906	-0.3006	0.0000	0.0002	-0.0024
angle:	451	139676.91	0.1285	0.2890	-0.3001	-0.0013	-0.0014	-0.0019
angle:	452	139679.41	0.1304	0.2878	-0.3002	0.0006	-0.0026	-0.0020
angle:	453	139681.91	0.1297	0.2886	-0.3002	-0.0001	-0.0018	-0.0020
angle:	454	139684.30	0.1298	0.2889	-0.3005	0.0000	-0.0015	-0.0022
angle:	455	139686.80	0.1304	0.2883	-0.2995	0.0006	-0.0021	-0.0012
angle:	456	139689.41	0.1300	0.2887	-0.2993	0.0002	-0.0017	-0.0011
angle:	457	139691.91	0.1307	0.2885	-0.2988	0.0010	-0.0019	-0.0006
angle:	458	139694.41	0.1317	0.2883	-0.2982	0.0020	-0.0021	0.0000
angle:	459	139696.81	0.1322	0.2896	-0.2980	0.0024	-0.0008	0.0002
angle:	460	139699.40	0.1306	0.2892	-0.2979	0.0008	-0.0013	0.0003
angle:	461	139701.90	0.1320	0.2901	-0.2976	0.0022	-0.0003	0.0007
angle:	462	139704.52	0.1311	0.2899	-0.2974	0.0013	-0.0005	0.0009
angle:	463	139707.01	0.1312	0.2910	-0.2968	0.0014	0.0006	0.0015
angle:	464	139709.60	0.1301	0.2922	-0.2966	0.0004	0.0018	0.0017
angle:	465	139712.00	0.1298	0.2907	-0.2965	0.0000	0.0003	0.0017
angle:	466	139714.60	0.1304	0.2913	-0.2963	0.0006	0.0009	0.0020
angle:	467	139716.91	0.1316	0.2914	-0.2959	0.0018	0.0010	0.0023
angle:	344	139126.81	0.1349	0.2920	-0.3029	0.0051	0.0016	-0.0047
angle:	345	139129.31	0.1340	0.2902	-0.3028	0.0042	-0.0002	-0.0046
angle:	346	139131.81	0.1338	0.2916	-0.3023	0.0040	0.0011	-0.0040
angle:	347	139134.40	0.1334	0.2911	-0.3023	0.0037	0.0007	-0.0041
angle:	348	139137.00	0.1317	0.2909	-0.3021	0.0019	0.0005	-0.0039
angle:	349	139139.69	0.1319	0.2910	-0.3015	0.0021	0.0006	-0.0032
angle:	350	139142.39	0.1319	0.2898	-0.3011	0.0022	-0.0006	-0.0029
angle:	351	139145.00	0.1317	0.2898	-0.3009	0.0019	-0.0006	-0.0026
angle:	352	139147.70	0.1328	0.2905	-0.3007	0.0030	0.0001	-0.0025
angle:	353	139150.29	0.1317	0.2902	-0.3010	0.0019	-0.0002	-0.0027
angle:	354	139152.99	0.1315	0.2914	-0.3011	0.0017	0.0010	-0.0029
angle:	355	139155.70	0.1318	0.2903	-0.3013	0.0020	-0.0001	-0.0031
angle:	356	139158.40	0.1319	0.2893	-0.3014	0.0021	-0.0011	-0.0032
angle:	357	139160.99	0.1325	0.2898	-0.3012	0.0027	-0.0006	-0.0029
angle:	358	139163.69	0.1323	0.2903	-0.3012	0.0025	-0.0001	-0.0029
angle:	359	139166.39	0.1324	0.2904	-0.3006	0.0026	0.0000	-0.0024
angle:	360	139168.98	0.1328	0.2908	-0.3006	0.0030	0.0004	-0.0023
angle:	361	139171.59	0.1327	0.2898	-0.3012	0.0029	-0.0006	-0.0030
angle:	362	139174.19	0.1326	0.2892	-0.3015	0.0028	-0.0012	-0.0032
angle:	363	139176.89	0.1330	0.2903	-0.3011	0.0032	-0.0001	-0.0028
angle:	364	139179.52	0.1314	0.2922	-0.3009	0.0016	0.0018	-0.0027
angle:	365	139182.09	0.1319	0.2903	-0.3009	0.0021	-0.0001	-0.0026
angle:	366	139184.68	0.1327	0.2914	-0.3010	0.0029	0.0010	-0.0027
angle:	367	139187.19	0.1333	0.2907	-0.3018	0.0035	0.0003	-0.0036
angle:	368	139189.69	0.1325	0.2918	-0.3017	0.0027	0.0014	-0.0035
angle:	369	139192.19	0.1331	0.2909	-0.3016	0.0033	0.0005	-0.0033
angle:	370	139194.69	0.1332	0.2916	-0.3012	0.0034	0.0012	-0.0029
angle:	371	139197.19	0.1315	0.2887	-0.3005	0.0018	-0.0017	-0.0023
angle:	372	139199.69	0.1319	0.2887	-0.3009	0.0021	-0.0017	-0.0026
angle:	373	139202.09	0.1312	0.2902	-0.3012	0.0015	-0.0002	-0.0029
angle:	374	139204.59	0.1316	0.2895	-0.3013	0.0018	-0.0009	-0.0031
angle:	375	139207.09	0.1317	0.2902	-0.3014	0.0019	-0.0002	-0.0032
angle:	376	139209.59	0.1322	0.2892	-0.3015	0.0024	-0.0013	-0.0032
angle:	377	139212.09	0.1318	0.2912	-0.3010	0.0020	0.0008	-0.0027
angle:	378	139214.58	0.1325	0.2896	-0.3006	0.0027	-0.0008	-0.0023
angle:	379	139217.18	0.1330	0.2900	-0.3003	0.0032	-0.0004	-0.0020
angle:	380	139219.68	0.1334	0.2902	-0.2994	0.0036	-0.0002	-0.0011
angle:	381	139222.28	0.1332	0.2930	-0.2972	0.0034	0.0026	0.0010
angle:	267	138731.26	0.1329	0.2905	-0.2980	0.0032	0.0001	0.0002
angle:	268	138733.86	0.1318	0.2897	-0.2980	0.0020	-0.0007	0.0002
angle:	269	138736.52	0.1317	0.2906	-0.2975	0.0019	0.0002	0.0007
angle:	270	138739.16	0.1312	0.2898	-0.2973	0.0014	-0.0006	0.0009
angle:	271	138741.86	0.1309	0.2907	-0.2967	0.0011	0.0003	0.0016

angle:	272	138744.56	0.1314	0.2913	-0.2967	0.0016	0.0009	0.0016
angle:	273	138747.26	0.1313	0.2910	-0.2969	0.0015	0.0006	0.0014
angle:	274	138749.96	0.1309	0.2903	-0.2965	0.0012	-0.0001	0.0017
angle:	275	138752.76	0.1307	0.2908	-0.2962	0.0009	0.0004	0.0021
angle:	276	138755.46	0.1306	0.2903	-0.2961	0.0008	-0.0001	0.0022
angle:	277	138758.16	0.1315	0.2899	-0.2962	0.0017	-0.0006	0.0020
angle:	278	138760.86	0.1319	0.2902	-0.2963	0.0021	-0.0002	0.0020
angle:	279	138763.55	0.1322	0.2902	-0.2965	0.0024	-0.0002	0.0018
angle:	280	138766.16	0.1324	0.2900	-0.2965	0.0026	-0.0004	0.0017
angle:	281	138768.86	0.1312	0.2906	-0.2967	0.0015	0.0002	0.0016
angle:	282	138771.51	0.1315	0.2915	-0.2964	0.0017	0.0011	0.0019
angle:	283	138774.06	0.1318	0.2890	-0.2963	0.0020	-0.0014	0.0019
angle:	284	138776.65	0.1320	0.2904	-0.2958	0.0023	0.0000	0.0025
angle:	285	138779.26	0.1321	0.2892	-0.2959	0.0023	-0.0012	0.0024
angle:	286	138781.76	0.1323	0.2891	-0.2960	0.0025	-0.0013	0.0022
angle:	287	138784.35	0.1321	0.2903	-0.2961	0.0024	-0.0001	0.0021
angle:	288	138786.85	0.1325	0.2901	-0.2961	0.0027	-0.0003	0.0021
angle:	289	138789.50	0.1318	0.2901	-0.2961	0.0020	-0.0003	0.0022
angle:	290	138791.96	0.1318	0.2907	-0.2957	0.0021	0.0003	0.0025
angle:	291	138794.55	0.1333	0.2904	-0.2950	0.0035	0.0000	0.0033
angle:	292	138797.05	0.1331	0.2907	-0.2948	0.0033	0.0003	0.0035
angle:	293	138799.55	0.1324	0.2883	-0.2946	0.0027	-0.0021	0.0036
angle:	294	138802.15	0.1325	0.2890	-0.2948	0.0028	-0.0014	0.0035
angle:	295	138804.65	0.1318	0.2898	-0.2946	0.0020	-0.0006	0.0037
angle:	296	138807.24	0.1314	0.2874	-0.2942	0.0016	-0.0030	0.0040
angle:	297	138809.74	0.1314	0.2897	-0.2942	0.0016	-0.0007	0.0040
angle:	298	138812.35	0.1322	0.2889	-0.2947	0.0024	-0.0015	0.0035
angle:	299	138814.94	0.1328	0.2899	-0.2941	0.0031	-0.0005	0.0041
angle:	300	138817.55	0.1337	0.2911	-0.2942	0.0039	0.0007	0.0041
angle:	301	138820.14	0.1344	0.2927	-0.2933	0.0046	0.0023	0.0050
angle:	302	138822.75	0.1353	0.2935	-0.2927	0.0055	0.0031	0.0055
angle:	303	138825.34	0.1353	0.2947	-0.2926	0.0055	0.0043	0.0056
angle:	304	138827.95	0.1353	0.2942	-0.2927	0.0056	0.0038	0.0055
angle:	189	138358.32	0.1306	0.2922	-0.2988	0.0009	0.0018	-0.0006
angle:	190	138360.83	0.1298	0.2924	-0.2988	0.0000	0.0020	-0.0006
angle:	191	138363.42	0.1299	0.2904	-0.2987	0.0001	0.0000	-0.0004
angle:	192	138366.12	0.1295	0.2909	-0.2986	-0.0003	0.0005	-0.0004
angle:	193	138368.72	0.1297	0.2913	-0.2988	-0.0001	0.0009	-0.0006
angle:	194	138371.42	0.1293	0.2890	-0.2989	-0.0005	-0.0014	-0.0007
angle:	195	138374.02	0.1291	0.2884	-0.2986	-0.0007	-0.0020	-0.0004
angle:	196	138376.62	0.1291	0.2898	-0.2986	-0.0007	-0.0006	-0.0003
angle:	197	138379.32	0.1300	0.2916	-0.2983	0.0003	0.0012	-0.0001
angle:	198	138381.91	0.1293	0.2907	-0.2982	-0.0004	0.0003	0.0001
angle:	199	138384.61	0.1292	0.2895	-0.2982	-0.0006	-0.0009	0.0001
angle:	200	138387.22	0.1294	0.2910	-0.2980	-0.0004	0.0006	0.0002
angle:	201	138389.81	0.1289	0.2900	-0.2974	-0.0008	-0.0004	0.0008
angle:	202	138392.42	0.1296	0.2887	-0.2974	-0.0002	-0.0017	0.0008
angle:	203	138395.02	0.1296	0.2897	-0.2973	-0.0002	-0.0007	0.0010
angle:	204	138397.62	0.1287	0.2905	-0.2970	-0.0011	0.0001	0.0012
angle:	205	138400.12	0.1285	0.2894	-0.2968	-0.0012	-0.0010	0.0015
angle:	206	138402.72	0.1286	0.2897	-0.2968	-0.0012	-0.0007	0.0015
angle:	207	138405.22	0.1275	0.2900	-0.2967	-0.0023	-0.0004	0.0015
angle:	208	138407.71	0.1263	0.2901	-0.2968	-0.0035	-0.0003	0.0014
angle:	209	138410.21	0.1264	0.2895	-0.2964	-0.0034	-0.0009	0.0018
angle:	210	138412.82	0.1261	0.2896	-0.2959	-0.0036	-0.0008	0.0024
angle:	211	138415.31	0.1258	0.2903	-0.2954	-0.0040	-0.0001	0.0028
angle:	212	138417.91	0.1252	0.2904	-0.2955	-0.0045	0.0000	0.0028
angle:	213	138420.40	0.1249	0.2909	-0.2957	-0.0049	0.0005	0.0025
angle:	214	138422.90	0.1263	0.2889	-0.2955	-0.0035	-0.0015	0.0028
angle:	215	138425.53	0.1264	0.2884	-0.2952	-0.0034	-0.0020	0.0031
angle:	216	138428.01	0.1258	0.2895	-0.2950	-0.0040	-0.0009	0.0032
angle:	217	138430.60	0.1266	0.2886	-0.2945	-0.0032	-0.0018	0.0037
angle:	218	138433.12	0.1265	0.2893	-0.2937	-0.0033	-0.0011	0.0045
angle:	219	138435.71	0.1277	0.2909	-0.2937	-0.0021	0.0005	0.0046
angle:	220	138438.21	0.1286	0.2920	-0.2932	-0.0011	0.0016	0.0050
angle:	221	138440.80	0.1287	0.2908	-0.2927	-0.0011	0.0004	0.0056
angle:	222	138443.41	0.1290	0.2918	-0.2919	-0.0008	0.0014	0.0063
angle:	223	138446.11	0.1308	0.2921	-0.2913	0.0010	0.0017	0.0069
angle:	224	138448.71	0.1311	0.2914	-0.2888	0.0013	0.0010	0.0095
angle:	225	138451.31	0.1305	0.2926	-0.2861	0.0007	0.0022	0.0121
angle:	226	138454.01	0.1333	0.2921	-0.2844	0.0035	0.0017	0.0138
angle:	305	138926.43	0.1362	0.2917	-0.2930	0.0064	0.0013	0.0052
angle:	306	138929.13	0.1336	0.2887	-0.2938	0.0038	-0.0017	0.0045
angle:	307	138931.73	0.1326	0.2888	-0.2945	0.0028	-0.0016	0.0038
angle:	308	138934.34	0.1341	0.2892	-0.2993	0.0043	-0.0013	-0.0011
angle:	309	138937.03	0.1334	0.2903	-0.2992	0.0037	-0.0001	-0.0010
angle:	310	138939.62	0.1323	0.2910	-0.2995	0.0026	0.0006	-0.0013
angle:	311	138942.24	0.1325	0.2898	-0.2995	0.0028	-0.0006	-0.0013
angle:	312	138944.82	0.1324	0.2908	-0.2995	0.0026	0.0004	-0.0013
angle:	313	138947.42	0.1322	0.2893	-0.3000	0.0024	-0.0011	-0.0017
angle:	314	138949.93	0.1321	0.2884	-0.3002	0.0023	-0.0020	-0.0020
angle:	315	138952.62	0.1330	0.2875	-0.3001	0.0032	-0.0029	-0.0018
angle:	316	138955.13	0.1327	0.2883	-0.3000	0.0029	-0.0021	-0.0017
angle:	317	138957.64	0.1320	0.2877	-0.2998	0.0022	-0.0027	-0.0015
angle:	318	138960.22	0.1311	0.2880	-0.2996	0.0013	-0.0024	-0.0014
angle:	319	138962.72	0.1310	0.2874	-0.2995	0.0013	-0.0030	-0.0013
angle:	320	138965.33	0.1323	0.2880	-0.2989	0.0025	-0.0024	-0.0007
angle:	321	138967.92	0.1310	0.2886	-0.2990	0.0012	-0.0018	-0.0007
angle:	322	138970.53	0.1314	0.2892	-0.2989	0.0016	-0.0012	-0.0007
angle:	323	138973.03	0.1312	0.2896	-0.2992	0.0014	-0.0008	-0.0010
angle:	324	138975.62	0.1297	0.2886	-0.2993	0.0000	-0.0018	-0.0011
angle:	325	138978.02	0.1305	0.2901	-0.2997	0.0007	-0.0003	-0.0015

angle:	326	138980.62	0.1302	0.2908	-0.2999	0.0005	0.0004	-0.0016
angle:	327	138983.02	0.1307	0.2884	-0.3001	0.0010	-0.0020	-0.0019
angle:	328	138985.61	0.1301	0.2890	-0.3003	0.0004	-0.0014	-0.0021
angle:	329	138988.11	0.1315	0.2885	-0.2998	0.0017	-0.0019	-0.0016
angle:	330	138990.61	0.1301	0.2887	-0.2995	0.0003	-0.0017	-0.0012
angle:	331	138993.22	0.1302	0.2899	-0.2992	0.0004	-0.0005	-0.0009
angle:	332	138995.72	0.1307	0.2897	-0.2986	0.0009	-0.0007	-0.0004
angle:	333	138998.22	0.1312	0.2900	-0.2982	0.0014	-0.0005	0.0000
angle:	334	139000.81	0.1304	0.2899	-0.2986	0.0007	-0.0005	-0.0004
angle:	335	139003.42	0.1319	0.2897	-0.2979	0.0021	-0.0007	0.0004
angle:	336	139006.01	0.1310	0.2883	-0.2979	0.0012	-0.0021	0.0004
angle:	337	139008.63	0.1317	0.2898	-0.2977	0.0019	-0.0007	0.0006
angle:	338	139011.32	0.1316	0.2903	-0.2968	0.0019	-0.0001	0.0014
angle:	339	139014.02	0.1313	0.2907	-0.2963	0.0016	0.0003	0.0019
angle:	340	139016.71	0.1312	0.2902	-0.2957	0.0014	-0.0002	0.0025
angle:	341	139019.41	0.1318	0.2901	-0.2952	0.0020	-0.0004	0.0030
angle:	342	139022.11	0.1323	0.2915	-0.2945	0.0026	0.0011	0.0037
angle:	343	139024.82	0.1326	0.2912	-0.2932	0.0028	0.0008	0.0051
angle:	227	138546.99	0.1273	0.2902	-0.3009	-0.0024	-0.0002	-0.0027
angle:	228	138549.58	0.1261	0.2910	-0.3002	-0.0037	0.0006	-0.0019
angle:	229	138552.19	0.1262	0.2900	-0.2998	-0.0036	-0.0004	-0.0016
angle:	230	138554.69	0.1274	0.2901	-0.2998	-0.0024	-0.0003	-0.0015
angle:	231	138557.29	0.1261	0.2892	-0.2998	-0.0036	-0.0012	-0.0016
angle:	232	138559.89	0.1271	0.2901	-0.2993	-0.0027	-0.0003	-0.0011
angle:	233	138562.40	0.1273	0.2900	-0.2994	-0.0025	-0.0005	-0.0012
angle:	234	138564.98	0.1279	0.2907	-0.2991	-0.0018	0.0003	-0.0009
angle:	235	138567.59	0.1289	0.2899	-0.2988	-0.0009	-0.0005	-0.0006
angle:	236	138570.09	0.1278	0.2912	-0.2987	-0.0019	0.0008	-0.0005
angle:	237	138572.59	0.1274	0.2892	-0.2988	-0.0024	-0.0012	-0.0006
angle:	238	138575.09	0.1277	0.2892	-0.2986	-0.0021	-0.0012	-0.0004
angle:	239	138577.59	0.1262	0.2896	-0.2987	-0.0036	-0.0008	-0.0005
angle:	240	138580.08	0.1262	0.2902	-0.2985	-0.0035	-0.0002	-0.0002
angle:	241	138582.58	0.1263	0.2903	-0.2983	-0.0034	-0.0001	0.0000
angle:	242	138585.08	0.1265	0.2913	-0.2984	-0.0032	0.0009	-0.0001
angle:	243	138587.52	0.1277	0.2902	-0.2986	-0.0021	-0.0002	-0.0004
angle:	244	138589.89	0.1269	0.2920	-0.2988	-0.0029	0.0016	-0.0006
angle:	245	138592.19	0.1271	0.2908	-0.2988	-0.0026	0.0004	-0.0006
angle:	246	138594.58	0.1287	0.2924	-0.2990	-0.0011	0.0020	-0.0007
angle:	247	138596.89	0.1296	0.2909	-0.2993	-0.0002	0.0005	-0.0010
angle:	248	138599.28	0.1295	0.2897	-0.2994	-0.0002	-0.0007	-0.0011
angle:	249	138601.59	0.1289	0.2889	-0.2994	-0.0009	-0.0015	-0.0011
angle:	250	138603.98	0.1299	0.2879	-0.2992	0.0002	-0.0025	-0.0010
angle:	251	138606.52	0.1310	0.2869	-0.2991	0.0012	-0.0035	-0.0009
angle:	252	138608.88	0.1307	0.2887	-0.2989	0.0009	-0.0017	-0.0007
angle:	253	138611.29	0.1308	0.2889	-0.2986	0.0010	-0.0015	-0.0003
angle:	254	138613.79	0.1316	0.2895	-0.2982	0.0018	-0.0009	0.0000
angle:	255	138616.28	0.1314	0.2900	-0.2981	0.0016	-0.0004	0.0002
angle:	256	138618.79	0.1314	0.2899	-0.2981	0.0016	-0.0005	0.0002
angle:	257	138621.28	0.1318	0.2903	-0.2977	0.0020	-0.0001	0.0005
angle:	258	138623.87	0.1316	0.2881	-0.2972	0.0018	-0.0023	0.0011
angle:	259	138626.37	0.1308	0.2883	-0.2966	0.0011	-0.0021	0.0016
angle:	260	138628.98	0.1308	0.2896	-0.2963	0.0011	-0.0008	0.0019
angle:	261	138631.57	0.1301	0.2898	-0.2960	0.0003	-0.0006	0.0023
angle:	262	138634.18	0.1297	0.2924	-0.2954	0.0000	0.0020	0.0028
angle:	263	138636.77	0.1307	0.2910	-0.2945	0.0010	0.0006	0.0037
angle:	264	138639.38	0.1314	0.2931	-0.2939	0.0016	0.0027	0.0044
angle:	265	138641.97	0.1304	0.2931	-0.2930	0.0006	0.0027	0.0052
angle:	266	138644.52	0.1308	0.2949	-0.2929	0.0010	0.0045	0.0054
angle:	144	138167.06	0.1289	0.2924	-0.3000	-0.0009	0.0020	-0.0018
angle:	145	138169.65	0.1289	0.2919	-0.2995	-0.0008	0.0015	-0.0013
angle:	146	138172.26	0.1283	0.2912	-0.2996	-0.0015	0.0008	-0.0014
angle:	147	138174.85	0.1283	0.2930	-0.2995	-0.0014	0.0026	-0.0012
angle:	148	138177.46	0.1272	0.2922	-0.2994	-0.0025	0.0018	-0.0012
angle:	149	138180.14	0.1273	0.2923	-0.2993	-0.0024	0.0019	-0.0010
angle:	150	138182.75	0.1281	0.2927	-0.2991	-0.0017	0.0023	-0.0009
angle:	151	138185.34	0.1284	0.2928	-0.2998	-0.0014	0.0024	-0.0016
angle:	152	138187.95	0.1282	0.2914	-0.2999	-0.0016	0.0010	-0.0017
angle:	153	138190.46	0.1286	0.2919	-0.2990	-0.0011	0.0015	-0.0008
angle:	154	138192.95	0.1286	0.2917	-0.2986	-0.0012	0.0013	-0.0004
angle:	155	138195.45	0.1286	0.2905	-0.2983	-0.0012	0.0001	-0.0001
angle:	156	138197.85	0.1281	0.2902	-0.2985	-0.0017	-0.0002	-0.0002
angle:	157	138200.35	0.1272	0.2888	-0.2986	-0.0025	-0.0016	-0.0004
angle:	158	138202.65	0.1264	0.2896	-0.2987	-0.0033	-0.0008	-0.0005
angle:	159	138205.15	0.1262	0.2902	-0.2987	-0.0036	-0.0002	-0.0004
angle:	160	138207.54	0.1269	0.2896	-0.2984	-0.0029	-0.0008	-0.0001
angle:	161	138209.95	0.1267	0.2900	-0.2984	-0.0031	-0.0004	-0.0002
angle:	162	138212.35	0.1276	0.2897	-0.2981	-0.0021	-0.0007	0.0001
angle:	163	138214.65	0.1276	0.2907	-0.2983	-0.0022	0.0003	-0.0001
angle:	164	138217.05	0.1281	0.2908	-0.2987	-0.0017	0.0003	-0.0005
angle:	165	138219.44	0.1276	0.2896	-0.2982	-0.0021	-0.0008	0.0000
angle:	166	138221.84	0.1283	0.2899	-0.2983	-0.0015	-0.0005	-0.0001
angle:	167	138224.14	0.1276	0.2896	-0.2981	-0.0022	-0.0008	0.0001
angle:	168	138226.54	0.1275	0.2894	-0.2984	-0.0023	-0.0010	-0.0001
angle:	169	138228.94	0.1266	0.2895	-0.2983	-0.0032	-0.0009	-0.0001
angle:	170	138231.24	0.1274	0.2894	-0.2987	-0.0024	-0.0010	-0.0005
angle:	171	138233.74	0.1270	0.2900	-0.2984	-0.0027	-0.0004	-0.0001
angle:	172	138236.15	0.1263	0.2876	-0.2984	-0.0035	-0.0028	-0.0001
angle:	173	138238.64	0.1272	0.2887	-0.2977	-0.0026	-0.0017	0.0006
angle:	174	138241.03	0.1287	0.2880	-0.2978	-0.0011	-0.0024	0.0005
angle:	175	138243.46	0.1279	0.2888	-0.2979	-0.0019	-0.0016	0.0004
angle:	176	138245.94	0.1291	0.2904	-0.2981	-0.0007	0.0000	0.0002
angle:	177	138248.43	0.1297	0.2895	-0.2978	-0.0001	-0.0009	0.0004

angle:	178	138250.84	0.1293	0.2901	-0.2977	-0.0005	-0.0004	0.0005
angle:	179	138253.34	0.1290	0.2902	-0.2972	-0.0007	-0.0002	0.0010
angle:	180	138255.84	0.1288	0.2900	-0.2971	-0.0010	-0.0004	0.0012
angle:	181	138258.43	0.1297	0.2905	-0.2966	0.0000	0.0001	0.0016
angle:	182	138260.93	0.1306	0.2903	-0.2964	0.0008	-0.0001	0.0019
angle:	183	138263.53	0.1291	0.2910	-0.2960	-0.0006	0.0006	0.0023
angle:	184	138266.04	0.1304	0.2912	-0.2956	0.0006	0.0008	0.0026
angle:	185	138268.63	0.1302	0.2911	-0.2953	0.0005	0.0007	0.0030
angle:	186	138271.14	0.1309	0.2922	-0.2949	0.0011	0.0018	0.0034
angle:	187	138273.64	0.1302	0.2923	-0.2941	0.0004	0.0019	0.0041
angle:	188	138276.14	0.1311	0.2931	-0.2935	0.0013	0.0027	0.0048
angle:	71	137809.61	0.1281	0.2899	-0.2993	-0.0017	-0.0005	-0.0011
angle:	72	137812.31	0.1279	0.2888	-0.2987	-0.0019	-0.0016	-0.0005
angle:	73	137815.01	0.1282	0.2887	-0.2982	-0.0015	-0.0017	0.0000
angle:	74	137817.61	0.1277	0.2892	-0.2979	-0.0021	-0.0012	0.0003
angle:	75	137820.31	0.1268	0.2896	-0.2984	-0.0029	-0.0008	-0.0002
angle:	76	137823.01	0.1266	0.2902	-0.2985	-0.0032	-0.0002	-0.0003
angle:	77	137825.60	0.1267	0.2900	-0.2987	-0.0031	-0.0004	-0.0004
angle:	78	137828.40	0.1265	0.2900	-0.2986	-0.0033	-0.0004	-0.0004
angle:	79	137831.10	0.1263	0.2906	-0.2990	-0.0034	0.0002	-0.0007
angle:	80	137833.80	0.1269	0.2902	-0.2991	-0.0029	-0.0002	-0.0009
angle:	81	137836.41	0.1267	0.2894	-0.2999	-0.0030	-0.0011	-0.0016
angle:	82	137839.11	0.1270	0.2894	-0.2995	-0.0027	-0.0010	-0.0012
angle:	83	137841.81	0.1265	0.2898	-0.2992	-0.0032	-0.0006	-0.0009
angle:	84	137844.61	0.1268	0.2888	-0.2993	-0.0030	-0.0016	-0.0011
angle:	85	137847.20	0.1286	0.2891	-0.2991	-0.0012	-0.0013	-0.0008
angle:	86	137849.81	0.1287	0.2913	-0.2993	-0.0011	0.0009	-0.0011
angle:	87	137852.40	0.1284	0.2909	-0.2992	-0.0014	0.0005	-0.0009
angle:	88	137855.01	0.1275	0.2911	-0.2991	-0.0023	0.0007	-0.0009
angle:	89	137857.60	0.1282	0.2898	-0.2986	-0.0015	-0.0006	-0.0004
angle:	90	137860.10	0.1281	0.2899	-0.2988	-0.0017	-0.0005	-0.0005
angle:	91	137862.71	0.1277	0.2904	-0.2990	-0.0020	0.0000	-0.0008
angle:	92	137865.30	0.1271	0.2895	-0.2990	-0.0027	-0.0009	-0.0007
angle:	93	137867.91	0.1274	0.2881	-0.2989	-0.0023	-0.0023	-0.0006
angle:	94	137870.41	0.1280	0.2894	-0.2993	-0.0018	-0.0010	-0.0010
angle:	95	137873.00	0.1274	0.2896	-0.2994	-0.0023	-0.0008	-0.0012
angle:	96	137875.59	0.1271	0.2903	-0.2992	-0.0027	-0.0001	-0.0010
angle:	97	137878.20	0.1282	0.2897	-0.2996	-0.0016	-0.0007	-0.0014
angle:	98	137880.90	0.1288	0.2890	-0.3004	-0.0010	-0.0014	-0.0021
angle:	99	137883.60	0.1290	0.2892	-0.3003	-0.0008	-0.0012	-0.0020
angle:	100	137886.10	0.1289	0.2905	-0.3008	-0.0009	0.0001	-0.0026
angle:	101	137888.80	0.1292	0.2903	-0.3008	-0.0005	-0.0001	-0.0025
angle:	102	137891.40	0.1300	0.2894	-0.3003	0.0002	-0.0010	-0.0021
angle:	103	137894.00	0.1299	0.2902	-0.3013	0.0001	-0.0002	-0.0031
angle:	104	137896.59	0.1302	0.2921	-0.3009	0.0004	0.0017	-0.0026
angle:	105	137899.09	0.1302	0.2925	-0.3013	0.0004	0.0021	-0.0030
angle:	106	137901.70	0.1301	0.2927	-0.3014	0.0003	0.0023	-0.0032
angle:	107	137904.29	0.1307	0.2905	-0.3007	0.0010	0.0000	-0.0024
angle:	108	137906.90	0.1320	0.2907	-0.3002	0.0022	0.0002	-0.0020
angle:	109	137909.59	0.1317	0.2910	-0.3002	0.0019	0.0006	-0.0020
angle:	110	137912.20	0.1308	0.2909	-0.2994	0.0010	0.0005	-0.0012
angle:	111	137914.91	0.1312	0.2928	-0.2991	0.0014	0.0024	-0.0009
angle:	112	137917.69	0.1324	0.2946	-0.2989	0.0026	0.0042	-0.0007
angle:	113	137920.10	0.1328	0.2948	-0.2988	0.0030	0.0044	-0.0005
angle:	1	137360.68	0.1245	0.2918	-0.2980	-0.0053	0.0014	0.0003
angle:	2	137363.38	0.1249	0.2928	-0.2975	-0.0049	0.0024	0.0007
angle:	3	137365.97	0.1251	0.2916	-0.2971	-0.0046	0.0012	0.0012
angle:	4	137368.58	0.1260	0.2913	-0.2969	-0.0038	0.0009	0.0013
angle:	5	137371.17	0.1258	0.2908	-0.2966	-0.0040	0.0004	0.0016
angle:	6	137373.78	0.1254	0.2901	-0.2959	-0.0043	-0.0003	0.0023
angle:	7	137376.37	0.1260	0.2909	-0.2952	-0.0038	0.0005	0.0031
angle:	8	137378.98	0.1261	0.2900	-0.2950	-0.0037	-0.0004	0.0033
angle:	9	137381.57	0.1261	0.2902	-0.2953	-0.0037	-0.0002	0.0029
angle:	10	137384.18	0.1263	0.2906	-0.2952	-0.0035	0.0002	0.0030
angle:	11	137386.77	0.1263	0.2900	-0.2950	-0.0035	-0.0004	0.0033
angle:	12	137389.38	0.1256	0.2888	-0.2949	-0.0042	-0.0016	0.0033
angle:	13	137392.07	0.1257	0.2895	-0.2946	-0.0041	-0.0009	0.0036
angle:	14	137394.68	0.1264	0.2897	-0.2944	-0.0034	-0.0007	0.0038
angle:	15	137397.27	0.1268	0.2895	-0.2945	-0.0029	-0.0009	0.0038
angle:	16	137399.88	0.1272	0.2899	-0.2946	-0.0026	-0.0005	0.0037
angle:	17	137402.38	0.1264	0.2907	-0.2950	-0.0034	0.0003	0.0033
angle:	18	137404.97	0.1265	0.2904	-0.2948	-0.0033	0.0000	0.0035
angle:	19	137407.51	0.1267	0.2918	-0.2952	-0.0031	0.0014	0.0030
angle:	20	137409.97	0.1264	0.2925	-0.2947	-0.0034	0.0021	0.0036
angle:	21	137412.58	0.1268	0.2916	-0.2943	-0.0030	0.0012	0.0039
angle:	22	137415.07	0.1273	0.2912	-0.2941	-0.0025	0.0008	0.0041
angle:	23	137417.57	0.1270	0.2901	-0.2945	-0.0028	-0.0003	0.0038
angle:	24	137420.07	0.1270	0.2902	-0.2947	-0.0028	-0.0002	0.0036
angle:	25	137422.57	0.1261	0.2895	-0.2953	-0.0037	-0.0009	0.0030
angle:	26	137425.07	0.1261	0.2905	-0.2954	-0.0037	0.0001	0.0029
angle:	27	137427.57	0.1265	0.2899	-0.2957	-0.0033	-0.0005	0.0025
angle:	28	137430.06	0.1284	0.2894	-0.2915	-0.0014	-0.0010	0.0067
angle:	29	137432.56	0.1278	0.2891	-0.2911	-0.0020	-0.0013	0.0072
angle:	30	137435.06	0.1269	0.2907	-0.2906	-0.0029	0.0003	0.0077
angle:	31	137437.57	0.1288	0.2910	-0.2910	-0.0010	0.0006	0.0072
angle:	32	137440.17	0.1285	0.2916	-0.2904	-0.0012	0.0012	0.0078
angle:	33	137442.67	0.1295	0.2912	-0.2895	-0.0003	0.0008	0.0088
angle:	114	138012.18	0.1267	0.2930	-0.2962	-0.0031	0.0026	0.0021
angle:	115	138014.88	0.1258	0.2914	-0.2961	-0.0039	0.0010	0.0021
angle:	116	138017.67	0.1254	0.2901	-0.2958	-0.0044	-0.0003	0.0024
angle:	117	138020.53	0.1248	0.2898	-0.2953	-0.0050	-0.0006	0.0030
angle:	118	138023.18	0.1243	0.2896	-0.2953	-0.0055	-0.0008	0.0029

angle:	119	138025.98	0.1244	0.2904	-0.2946	-0.0054	0.0000	0.0037
angle:	120	138028.68	0.1237	0.2894	-0.2947	-0.0060	-0.0010	0.0036
angle:	121	138031.38	0.1234	0.2894	-0.2950	-0.0064	-0.0010	0.0033
angle:	122	138033.97	0.1236	0.2883	-0.2950	-0.0062	-0.0021	0.0032
angle:	123	138036.57	0.1252	0.2887	-0.2957	-0.0046	-0.0017	0.0026
angle:	124	138039.17	0.1255	0.2887	-0.2961	-0.0042	-0.0017	0.0022
angle:	125	138041.76	0.1256	0.2886	-0.2960	-0.0042	-0.0018	0.0023
angle:	126	138044.38	0.1259	0.2897	-0.2960	-0.0038	-0.0007	0.0023
angle:	127	138047.09	0.1261	0.2898	-0.2958	-0.0036	-0.0006	0.0024
angle:	128	138049.67	0.1257	0.2902	-0.2962	-0.0041	-0.0002	0.0020
angle:	129	138052.28	0.1265	0.2896	-0.2963	-0.0033	-0.0008	0.0019
angle:	130	138054.87	0.1262	0.2907	-0.2964	-0.0036	0.0003	0.0018
angle:	131	138057.57	0.1275	0.2896	-0.2962	-0.0022	-0.0008	0.0021
angle:	132	138060.16	0.1272	0.2896	-0.2960	-0.0025	-0.0008	0.0022
angle:	133	138062.77	0.1272	0.2888	-0.2962	-0.0026	-0.0016	0.0020
angle:	134	138065.53	0.1261	0.2901	-0.2959	-0.0037	-0.0003	0.0024
angle:	135	138068.06	0.1266	0.2890	-0.2959	-0.0032	-0.0014	0.0024
angle:	136	138070.77	0.1279	0.2872	-0.2946	-0.0019	-0.0032	0.0037
angle:	137	138073.51	0.1263	0.2874	-0.2945	-0.0034	-0.0030	0.0038
angle:	138	138076.17	0.1263	0.2874	-0.2941	-0.0035	-0.0030	0.0041
angle:	139	138078.77	0.1273	0.2896	-0.2938	-0.0025	-0.0008	0.0045
angle:	140	138081.56	0.1265	0.2890	-0.2937	-0.0033	-0.0014	0.0046
angle:	141	138084.16	0.1294	0.2878	-0.2993	-0.0004	-0.0026	-0.0010
angle:	142	138086.87	0.1304	0.2915	-0.2986	0.0006	0.0010	-0.0004
angle:	143	138089.50	0.1304	0.2925	-0.2977	0.0006	0.0021	0.0006
angle:	34	137531.27	0.1319	0.2893	-0.3073	0.0021	-0.0011	-0.0090
angle:	35	137533.96	0.1298	0.2899	-0.3073	0.0001	-0.0005	-0.0091
angle:	36	137536.65	0.1299	0.2921	-0.3067	0.0001	0.0017	-0.0085
angle:	37	137539.35	0.1295	0.2918	-0.3066	-0.0003	0.0014	-0.0083
angle:	38	137542.05	0.1296	0.2922	-0.3064	-0.0002	0.0018	-0.0082
angle:	39	137544.75	0.1306	0.2931	-0.3066	0.0008	0.0027	-0.0084
angle:	40	137547.35	0.1299	0.2916	-0.3072	0.0001	0.0012	-0.0089
angle:	41	137549.95	0.1296	0.2903	-0.3073	-0.0002	-0.0001	-0.0091
angle:	42	137552.54	0.1305	0.2910	-0.3074	0.0007	0.0006	-0.0091
angle:	43	137555.15	0.1301	0.2904	-0.3068	0.0003	0.0000	-0.0086
angle:	44	137557.74	0.1291	0.2912	-0.3067	-0.0006	0.0008	-0.0085
angle:	45	137560.35	0.1294	0.2930	-0.3066	-0.0004	0.0026	-0.0084
angle:	46	137562.85	0.1291	0.2909	-0.3070	-0.0006	0.0005	-0.0088
angle:	47	137565.35	0.1296	0.2924	-0.3068	-0.0002	0.0020	-0.0086
angle:	48	137567.94	0.1292	0.2911	-0.3064	-0.0006	0.0007	-0.0082
angle:	49	137570.44	0.1296	0.2919	-0.3059	-0.0002	0.0015	-0.0076
angle:	50	137572.94	0.1303	0.2916	-0.3055	0.0005	0.0012	-0.0073
angle:	51	137575.52	0.1303	0.2919	-0.3053	0.0005	0.0015	-0.0071
angle:	52	137577.84	0.1296	0.2921	-0.3053	-0.0002	0.0017	-0.0071
angle:	53	137580.34	0.1303	0.2929	-0.3052	0.0005	0.0025	-0.0069
angle:	54	137582.84	0.1313	0.2922	-0.3047	0.0015	0.0018	-0.0065
angle:	55	137585.25	0.1302	0.2937	-0.3047	0.0004	0.0033	-0.0064
angle:	56	137587.74	0.1307	0.2915	-0.3039	0.0009	0.0011	-0.0057
angle:	57	137590.34	0.1310	0.2925	-0.3034	0.0013	0.0020	-0.0052
angle:	58	137592.84	0.1305	0.2933	-0.3032	0.0007	0.0029	-0.0050
angle:	59	137694.83	0.1250	0.2918	-0.2945	-0.0047	0.0014	0.0038
angle:	60	137697.42	0.1254	0.2903	-0.2947	-0.0043	-0.0001	0.0035
angle:	61	137700.12	0.1256	0.2904	-0.2944	-0.0042	0.0000	0.0039
angle:	62	137702.74	0.1254	0.2896	-0.2945	-0.0044	-0.0008	0.0038
angle:	63	137705.42	0.1246	0.2899	-0.2942	-0.0052	-0.0005	0.0040
angle:	64	137708.12	0.1256	0.2901	-0.2938	-0.0042	-0.0003	0.0044
angle:	65	137710.82	0.1264	0.2892	-0.2937	-0.0034	-0.0012	0.0045
angle:	66	137713.49	0.1263	0.2912	-0.2930	-0.0035	0.0008	0.0053
angle:	67	137716.13	0.1266	0.2915	-0.2931	-0.0031	0.0011	0.0052
angle:	68	137718.72	0.1265	0.2919	-0.2927	-0.0033	0.0015	0.0055
angle:	69	137721.42	0.1257	0.2923	-0.2922	-0.0041	0.0019	0.0061
angle:	70	137724.13	0.1260	0.2920	-0.2917	-0.0037	0.0016	0.0066

Average Boresight Angles:

Roll: 0.1298 deg

Pitch: 0.2904 deg

Yaw: -0.2982 deg

Boresight Angle RMS:

Roll: 0.0027 deg

Pitch: 0.0013 deg

Yaw: 0.0035 deg

Success!!

Boresight Calculation finished