

MicroSurvey STAR\*NET-PLUS Version 8,2,3,4253  
Run Date: Thu Jul 04 2019 17:49:13

Summary of Files Used and Option Settings  
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Project Folder and Data Files

Project Name TEST1  
Project Folder C:\USERS\STATION 2\DESKTOP  
Data File List 1. TEST1.dat  
2. SUMMER ST raw file.dat

Project Option Settings

STAR\*NET Run Mode : Adjust with Error Propagation  
Type of Adjustment : 3D  
Project Units : FeetUS; DMS  
Coordinate System : LOCAL  
Apply Average Scale Factor : 1.0000000000  
Input/Output Coordinate Order : North-East  
Angle Data Station Order : At-From-To  
Distance/Vertical Data Type : Slope/Zenith  
Convergence Limit; Max Iterations : 0.010000; 10  
Default Coefficient of Refraction : 0.070000  
Earth Radius : 6372000.00 Meters  
Create Coordinate File : No  
Create Ground Scale Coordinate File : No  
Create Dump File : No

Instrument Standard Error Settings

Project Default Instrument  
Distances (Constant) : 0.006562 FeetUS  
Distances (PPM) : 2.000000  
Angles : 1.000000 Seconds  
Directions : 1.000000 Seconds  
Azimuths & Bearings : 1.000000 Seconds  
Zeniths : 1.000000 Seconds  
Elevation Differences (Constant) : 0.006562 FeetUS  
Elevation Differences (PPM) : 0.000000  
Differential Levels : 0.010000 FeetUS / Mile  
Centering Error Instrument : 0.003281 FeetUS  
Centering Error Target : 0.003281 FeetUS  
Centering Error Vertical : 0.004921 FeetUS

Summary of Unadjusted Input Observations

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Number of Entered Stations (FeetUS) = 6

Fixed Stations Description	N	E	Elev	
100	3021977.9840	777861.9890	93.6090	MTRV MAG
FND				
101	3021789.6290	778094.9380	93.7420	MTRV SBDH
FND				
129	3017823.1260	782367.5920	99.1870	MMON DOT
GPS 2311				
130	3017751.2060	782705.3550	105.0210	MTRV MAG
NAIL FND - DOTGPS2311				
157	3013149.0390	787545.3160	122.1900	MTRV
REBAR FND GPS POINT2309				
158	3012821.6210	787506.6160	124.2310	MTRV MAG
NAIL FND GPS POINT2308				

Number of Angle Observations (DMS) = 121

At	From	To	Angle	StdErr
101	100	102	193-45-38.00	7.77
101	100	102	193-45-35.50	7.77
101	100	500	211-28-33.50	12.78
101	100	501	210-49-02.00	12.63
101	100	502	314-42-23.50	7.88
102	101	103	164-55-24.50	8.56
102	101	103	164-55-26.50	8.56
103	102	104	191-26-07.00	12.04
103	102	104	191-26-03.50	12.04
103	102	105	192-35-55.00	7.08
103	102	105	192-35-57.50	7.08
105	103	106	182-06-55.50	7.23
105	103	106	182-06-59.50	7.23
106	105	107	184-59-04.50	6.65
106	105	107	184-59-06.00	6.65
107	106	108	179-21-48.00	6.01
107	106	108	179-21-50.50	6.01
108	107	109	177-47-16.50	6.85
108	107	109	177-47-18.00	6.85
109	108	110	179-05-29.00	7.04
109	108	110	179-05-28.50	7.04
110	109	111	180-33-15.50	6.66
110	109	111	180-33-14.50	6.66
111	110	112	179-31-18.00	5.63
111	110	112	179-31-11.00	5.63
112	111	113	174-40-55.50	5.12
112	111	113	174-40-48.50	5.12
113	112	114	178-47-19.50	6.16
113	112	114	178-47-19.50	6.16
114	113	115	180-38-32.00	7.36
114	113	115	180-38-33.00	7.36
115	114	116	185-58-27.50	8.26
115	114	116	185-58-29.00	8.26
116	115	117	190-46-12.50	7.83
116	115	117	190-46-12.50	7.83

117	116	118	176-50-13.00	7.17
117	116	118	176-50-13.00	7.17
118	117	119	170-37-15.00	9.71
118	117	119	170-37-20.50	9.71
119	118	120	173-50-22.00	10.58
119	118	120	173-50-22.00	10.58
120	119	121	167-38-44.00	9.14
120	119	121	167-38-45.00	9.14
121	120	122	178-10-46.50	9.34
121	120	122	178-10-50.00	9.34
122	121	123	180-28-54.00	9.14
122	121	123	180-28-54.00	9.14
123	122	124	180-24-10.00	7.78
123	122	124	180-24-12.50	7.78
124	123	125	156-59-15.50	6.24
124	123	125	156-59-15.00	6.24
125	124	126	178-40-13.00	7.79
125	124	126	178-40-14.50	7.79
126	125	127	178-21-16.00	9.08
126	125	127	178-21-19.00	9.08
127	126	128	195-21-14.00	8.11
127	126	128	195-21-17.50	8.11
128	127	129	155-25-14.00	8.37
128	127	129	155-25-12.00	8.37
129	128	130	194-43-25.00	7.23
129	128	130	194-43-18.00	7.23
130	129	131	186-32-43.00	5.32
130	129	131	186-32-43.50	5.32
131	130	132	189-52-47.50	7.33
131	130	132	189-52-50.00	7.33
132	131	133	179-46-14.00	8.47
132	131	133	179-46-14.50	8.47
133	132	134	179-58-58.00	7.52
133	132	134	179-58-58.50	7.52
134	133	135	180-35-21.50	6.05
134	133	135	180-35-19.00	6.05
135	134	136	188-29-12.50	5.62
135	134	136	188-29-07.50	5.62
136	135	137	155-57-33.00	6.69
136	135	137	155-57-31.50	6.69
137	136	138	186-07-08.00	6.90
137	136	138	186-07-08.50	6.90
138	137	139	179-02-06.50	6.51
138	137	139	179-02-02.50	6.51
138	137	139	179-02-07.50	6.51
138	137	139	179-02-06.00	6.51
139	138	140	188-13-04.50	6.97
139	138	140	188-13-04.00	6.97
140	139	141	195-22-37.50	6.84
140	139	141	195-22-36.00	6.84
141	140	142	184-12-46.00	8.35
141	140	142	184-12-45.50	8.35
142	141	143	182-37-25.50	10.85
142	141	143	182-37-25.50	10.85
143	142	144	182-42-40.00	8.32
143	142	144	182-42-39.00	8.32
144	143	145	180-30-33.50	5.93
144	143	145	180-30-30.00	5.93

145	144	146	190-30-16.50	7.36
145	144	146	190-30-18.00	7.36
146	145	147	169-34-32.50	6.28
146	145	147	169-34-30.00	6.28
147	146	148	172-40-46.50	4.67
147	146	148	172-40-43.50	4.67
147	146	148	172-40-42.50	4.67
147	146	148	172-40-46.50	4.67
148	147	149	178-41-45.50	4.29
148	147	149	178-41-45.00	4.29
149	148	150	196-29-57.50	5.50
149	148	150	196-29-56.50	5.50
150	149	151	188-26-41.50	6.38
150	149	151	188-26-38.50	6.38
151	150	152	171-38-09.00	5.59
151	150	152	171-38-09.00	5.59
152	151	153	182-41-50.50	6.87
152	151	153	182-41-51.00	6.87
153	152	154	180-20-57.00	7.98
153	152	154	180-20-57.00	7.98
154	153	155	171-05-21.50	7.19
154	153	155	171-05-21.50	7.19
155	154	156	195-53-22.00	6.82
155	154	156	195-53-19.00	6.82
156	155	157	153-18-02.00	8.51
156	155	157	153-18-03.00	8.51
157	156	158	233-20-39.50	7.39
157	156	158	233-20-41.00	7.39

Number of Distance Observations (FeetUS) = 242

From	To	Distance	StdErr	HI	HT	Type
101	100	299.5787	0.0085	4.260	5.310	S
101	102	170.0881	0.0083	4.260	5.255	S
101	100	299.5781	0.0085	4.260	5.310	S
101	102	170.0896	0.0083	4.260	5.255	S
101	100	299.5799	0.0085	4.260	5.310	S
101	500	86.6626	0.0082	4.260	6.750	S
101	100	299.5792	0.0085	4.260	5.310	S
101	501	87.9901	0.0082	4.260	6.750	S
101	100	299.5784	0.0085	4.260	5.310	S
101	502	114.6578	0.0082	4.260	5.000	S
102	101	170.0866	0.0083	5.255	4.260	S
102	103	227.1428	0.0084	5.255	5.260	S
102	101	170.0863	0.0083	5.255	4.260	S
102	103	227.1436	0.0084	5.255	5.260	S
103	102	227.1372	0.0084	5.270	5.255	S
103	104	102.2685	0.0082	5.270	4.500	S
103	102	227.1369	0.0084	5.270	5.255	S
103	104	102.2673	0.0082	5.270	4.500	S
103	102	227.1376	0.0084	5.270	5.255	S
103	105	244.7989	0.0084	5.270	5.295	S
103	102	227.1374	0.0084	5.270	5.255	S
103	105	244.7985	0.0084	5.270	5.295	S
105	103	244.7912	0.0084	5.225	5.220	S
105	106	219.5520	0.0084	5.225	5.105	S
105	103	244.7909	0.0084	5.225	5.220	S
105	106	219.5561	0.0084	5.225	5.105	S

106	105	219.5551	0.0084	5.105	5.225	S
106	107	297.8425	0.0085	5.105	5.280	S
106	105	219.5551	0.0084	5.105	5.225	S
106	107	297.8424	0.0085	5.105	5.280	S
107	106	297.8379	0.0085	5.290	5.105	S
107	108	264.2584	0.0085	5.290	5.195	S
107	106	297.8391	0.0085	5.290	5.105	S
107	108	264.2586	0.0085	5.290	5.195	S
108	107	264.2569	0.0085	5.200	5.290	S
108	109	228.1923	0.0084	5.200	5.285	S
108	107	264.2563	0.0085	5.200	5.290	S
108	109	228.1920	0.0084	5.200	5.285	S
109	108	228.1905	0.0084	5.295	5.200	S
109	110	248.7054	0.0084	5.295	5.225	S
109	108	228.1902	0.0084	5.295	5.200	S
109	110	248.7047	0.0084	5.295	5.225	S
110	109	248.7069	0.0084	5.230	5.295	S
110	111	254.5375	0.0085	5.230	5.200	S
110	109	248.7067	0.0084	5.230	5.295	S
110	111	254.5375	0.0085	5.230	5.200	S
111	110	254.5390	0.0085	5.215	5.230	S
111	112	367.1331	0.0086	5.215	5.280	S
111	110	254.5387	0.0085	5.215	5.230	S
111	112	367.1340	0.0086	5.215	5.280	S
112	111	367.1381	0.0086	5.260	5.220	S
112	113	300.9280	0.0085	5.260	4.935	S
112	111	367.1394	0.0086	5.260	5.220	S
112	113	300.9281	0.0085	5.260	4.935	S
113	112	300.9329	0.0085	4.950	5.240	S
113	114	250.0454	0.0085	4.950	5.280	S
113	112	300.9332	0.0085	4.950	5.240	S
113	114	250.0454	0.0085	4.950	5.280	S
114	113	250.0504	0.0085	5.280	4.950	S
114	115	209.0142	0.0084	5.280	5.295	S
114	113	250.0502	0.0085	5.280	4.950	S
114	115	209.0132	0.0084	5.280	5.295	S
115	114	209.0149	0.0084	5.310	5.280	S
115	116	195.4648	0.0084	5.310	5.215	S
115	114	209.0155	0.0084	5.310	5.280	S
115	116	195.4647	0.0084	5.310	5.215	S
116	115	195.4648	0.0084	5.215	5.310	S
116	117	234.5433	0.0084	5.215	5.205	S
116	115	195.4642	0.0084	5.215	5.310	S
116	117	234.5432	0.0084	5.215	5.205	S
117	116	234.5445	0.0084	5.215	5.215	S
117	118	232.1934	0.0084	5.215	5.310	S
117	116	234.5445	0.0084	5.215	5.215	S
117	118	232.1931	0.0084	5.215	5.310	S
118	117	232.2002	0.0084	5.320	5.215	S
118	119	137.9922	0.0083	5.320	5.310	S
118	117	232.2003	0.0084	5.320	5.215	S
118	119	137.9930	0.0083	5.320	5.310	S
119	118	137.9897	0.0083	5.320	5.320	S
119	120	184.1669	0.0083	5.320	5.140	S
119	118	137.9902	0.0083	5.320	5.320	S
119	120	184.1675	0.0083	5.320	5.140	S
120	119	184.1697	0.0083	5.140	5.320	S
120	121	179.2127	0.0083	5.140	5.335	S

120	119	184.1703	0.0083	5.140	5.320	S
120	121	179.2119	0.0083	5.140	5.335	S
121	120	179.2111	0.0083	5.075	4.980	S
121	122	177.8343	0.0083	5.075	5.230	S
121	120	179.2099	0.0083	5.075	4.980	S
121	122	177.8338	0.0083	5.075	5.230	S
122	121	177.8325	0.0083	5.235	5.075	S
122	123	187.4444	0.0083	5.235	5.350	S
122	121	177.8313	0.0083	5.235	5.075	S
122	123	187.4447	0.0083	5.235	5.350	S
123	122	187.4462	0.0083	5.365	5.235	S
123	124	254.0516	0.0085	5.365	5.310	S
123	122	187.4447	0.0083	5.365	5.235	S
123	124	254.0515	0.0085	5.365	5.310	S
124	123	254.0452	0.0085	5.315	5.365	S
124	125	277.9019	0.0085	5.315	4.965	S
124	123	254.0428	0.0085	5.315	5.365	S
124	125	277.9010	0.0085	5.315	4.965	S
125	124	277.8974	0.0085	4.970	5.305	S
125	126	176.9360	0.0083	4.970	4.750	S
125	124	277.8977	0.0085	4.970	5.305	S
125	126	176.9352	0.0083	4.970	4.750	S
126	125	176.9348	0.0083	4.755	4.970	S
126	127	190.9011	0.0084	4.755	4.945	S
126	125	176.9352	0.0083	4.755	4.970	S
126	127	190.9009	0.0084	4.755	4.945	S
127	126	190.8997	0.0084	4.950	4.755	S
127	128	221.0477	0.0084	4.950	5.120	S
127	126	190.9007	0.0084	4.950	4.755	S
127	128	221.0472	0.0084	4.950	5.120	S
128	127	221.0495	0.0084	5.120	4.950	S
128	129	176.5032	0.0083	5.120	5.205	S
128	127	221.0484	0.0084	5.120	4.950	S
128	129	176.5037	0.0083	5.120	5.205	S
129	128	176.5049	0.0083	5.220	5.120	S
129	130	345.3635	0.0086	5.220	5.110	S
129	128	176.5041	0.0083	5.220	5.120	S
129	130	345.3627	0.0086	5.220	5.110	S
130	129	345.3617	0.0086	5.295	5.285	S
130	131	293.3383	0.0085	5.295	5.150	S
130	129	345.3614	0.0086	5.295	5.285	S
130	131	293.3393	0.0085	5.295	5.150	S
131	130	293.3431	0.0085	5.205	5.295	S
131	132	188.4880	0.0083	5.205	5.185	S
131	130	293.3429	0.0085	5.205	5.295	S
131	132	188.4893	0.0083	5.205	5.185	S
132	131	188.4947	0.0083	5.200	5.205	S
132	133	206.7703	0.0084	5.200	5.360	S
132	131	188.4941	0.0083	5.200	5.205	S
132	133	206.7698	0.0084	5.200	5.360	S
133	132	206.7721	0.0084	5.365	5.200	S
133	134	240.9637	0.0084	5.365	5.040	S
133	132	206.7720	0.0084	5.365	5.200	S
133	134	240.9643	0.0084	5.365	5.040	S
134	133	240.9657	0.0084	5.040	5.365	S
134	135	330.9126	0.0086	5.040	5.240	S
134	133	240.9648	0.0084	5.040	5.365	S
134	135	330.9127	0.0086	5.040	5.240	S

135	134	330.9153	0.0086	5.190	5.225	S
135	136	273.6574	0.0085	5.190	5.250	S
135	134	330.9163	0.0086	5.190	5.225	S
135	136	273.6574	0.0085	5.190	5.250	S
136	135	273.6530	0.0085	5.250	5.180	S
136	137	225.9878	0.0084	5.250	5.260	S
136	135	273.6517	0.0085	5.250	5.180	S
136	137	225.9875	0.0084	5.250	5.260	S
137	136	225.9932	0.0084	5.265	5.250	S
137	138	262.8662	0.0085	5.265	5.240	S
137	136	225.9927	0.0084	5.265	5.250	S
137	138	262.8655	0.0085	5.265	5.240	S
138	137	262.8660	0.0085	5.245	5.265	S
138	139	252.8638	0.0085	5.245	5.210	S
138	137	262.8665	0.0085	5.245	5.265	S
138	139	252.8642	0.0085	5.245	5.210	S
138	137	262.8647	0.0085	5.245	5.265	S
138	139	252.8645	0.0085	5.245	5.210	S
138	137	262.8650	0.0085	5.245	5.265	S
138	139	252.8632	0.0085	5.245	5.210	S
139	138	252.8625	0.0085	4.995	5.395	S
139	140	228.8160	0.0084	4.995	5.205	S
139	138	252.8625	0.0085	4.995	5.395	S
139	140	228.8162	0.0084	4.995	5.205	S
140	139	228.8158	0.0084	5.210	4.995	S
140	141	261.5191	0.0085	5.210	5.375	S
140	139	228.8155	0.0084	5.210	4.995	S
140	141	261.5191	0.0085	5.210	5.375	S
141	140	261.5212	0.0085	5.385	5.210	S
141	142	164.0723	0.0083	5.385	5.240	S
141	140	261.5207	0.0085	5.385	5.210	S
141	142	164.0721	0.0083	5.385	5.240	S
142	141	164.0634	0.0083	5.245	5.385	S
142	143	144.3212	0.0083	5.245	5.250	S
142	141	164.0629	0.0083	5.245	5.385	S
142	143	144.3220	0.0083	5.245	5.250	S
143	142	144.3171	0.0083	5.260	5.245	S
143	144	365.7898	0.0086	5.260	5.350	S
143	142	144.3174	0.0083	5.260	5.245	S
143	144	365.7888	0.0086	5.260	5.350	S
144	143	365.7870	0.0086	5.355	5.250	S
144	145	234.8857	0.0084	5.355	5.275	S
144	143	365.7867	0.0086	5.355	5.250	S
144	145	234.8858	0.0084	5.355	5.275	S
145	144	234.8889	0.0084	5.285	5.355	S
145	146	219.2630	0.0084	5.285	5.200	S
145	144	234.8886	0.0084	5.285	5.355	S
145	146	219.2633	0.0084	5.285	5.200	S
146	145	219.2633	0.0084	5.210	5.285	S
146	147	347.3889	0.0086	5.210	5.360	S
146	145	219.2631	0.0084	5.210	5.285	S
146	147	347.3894	0.0086	5.210	5.360	S
147	146	347.3911	0.0086	5.375	5.210	S
147	148	380.3198	0.0087	5.375	5.505	S
147	146	347.3911	0.0086	5.375	5.210	S
147	148	380.3197	0.0087	5.375	5.505	S
147	146	347.3911	0.0086	5.375	5.210	S
147	148	380.3197	0.0087	5.375	5.505	S

147	146	347.3914	0.0086	5.375	5.210	S
147	148	380.3200	0.0087	5.375	5.505	S
148	147	380.3182	0.0087	5.515	5.375	S
148	149	415.4556	0.0087	5.515	5.310	S
148	147	380.3180	0.0087	5.515	5.375	S
148	149	415.4550	0.0087	5.515	5.310	S
149	148	415.4574	0.0087	5.140	5.300	S
149	150	244.7661	0.0084	5.140	5.345	S
149	148	415.4578	0.0087	5.140	5.300	S
149	150	244.7666	0.0084	5.140	5.345	S
150	149	244.7599	0.0084	5.350	5.140	S
150	151	283.9741	0.0085	5.350	5.280	S
150	149	244.7601	0.0084	5.350	5.140	S
150	151	283.9747	0.0085	5.350	5.280	S
151	150	283.9650	0.0085	5.290	5.350	S
151	152	320.5908	0.0086	5.290	5.175	S
151	150	283.9649	0.0085	5.290	5.350	S
151	152	320.5903	0.0086	5.290	5.175	S
152	151	320.5887	0.0086	5.180	5.290	S
152	153	199.6766	0.0084	5.180	5.215	S
152	151	320.5877	0.0086	5.180	5.290	S
152	153	199.6761	0.0084	5.180	5.215	S
153	152	199.6736	0.0084	5.230	5.180	S
153	154	220.1294	0.0084	5.230	5.355	S
153	152	199.6743	0.0084	5.230	5.180	S
153	154	220.1296	0.0084	5.230	5.355	S
154	153	220.1215	0.0084	5.360	5.230	S
154	155	246.0353	0.0084	5.360	5.390	S
154	153	220.1214	0.0084	5.360	5.230	S
154	155	246.0350	0.0084	5.360	5.390	S
155	154	246.0378	0.0084	5.405	5.360	S
155	156	242.2253	0.0084	5.405	5.225	S
155	154	246.0381	0.0084	5.405	5.360	S
155	156	242.2253	0.0084	5.405	5.225	S
156	155	242.2220	0.0084	5.230	5.405	S
156	157	161.6461	0.0083	5.230	5.140	S
156	155	242.2224	0.0084	5.230	5.405	S
156	157	161.6463	0.0083	5.230	5.140	S
157	156	161.6391	0.0083	5.150	5.230	S
157	158	329.6978	0.0086	5.150	5.010	S
157	156	161.6395	0.0083	5.150	5.230	S
157	158	329.6988	0.0086	5.150	5.010	S

Number of Zenith Observations (DMS) = 242

From	To	Zenith	StdErr	HI	HT
101	100	89-49-19.50	4.90	4.260	5.310
101	102	89-11-46.00	8.50	4.260	5.255
101	100	89-49-21.00	4.90	4.260	5.310
101	102	89-11-49.00	8.50	4.260	5.255
101	100	89-49-20.00	4.90	4.260	5.310
101	500	88-49-17.50	16.59	4.260	6.750
101	100	89-49-19.00	4.90	4.260	5.310
101	501	88-47-53.50	16.34	4.260	6.750
101	100	89-49-21.00	4.90	4.260	5.310
101	502	91-18-13.50	12.56	4.260	5.000
102	101	90-48-15.00	8.50	5.255	4.260
102	103	88-58-15.00	6.40	5.255	5.260



102	101	90-48-14.50	8.50	5.255	4.260
102	103	88-58-15.50	6.40	5.255	5.260
103	102	91-01-55.50	6.40	5.270	5.255
103	104	90-14-25.00	14.07	5.270	4.500
103	102	91-01-56.50	6.40	5.270	5.255
103	104	90-14-25.50	14.07	5.270	4.500
103	102	91-01-56.00	6.40	5.270	5.255
103	105	89-34-02.00	5.95	5.270	5.295
103	102	91-01-55.00	6.40	5.270	5.255
103	105	89-34-01.50	5.95	5.270	5.295
105	103	90-25-36.00	5.95	5.225	5.220
105	106	90-32-19.00	6.61	5.225	5.105
105	103	90-25-39.00	5.95	5.225	5.220
105	106	90-32-17.00	6.61	5.225	5.105
106	105	89-27-50.50	6.61	5.105	5.225
106	107	90-24-54.00	4.92	5.105	5.280
106	105	89-27-47.00	6.61	5.105	5.225
106	107	90-24-57.50	4.92	5.105	5.280
107	106	89-35-16.50	4.92	5.290	5.105
107	108	89-54-56.50	5.52	5.290	5.195
107	106	89-35-14.50	4.92	5.290	5.105
107	108	89-54-55.50	5.52	5.290	5.195
108	107	90-05-05.50	5.52	5.200	5.290
108	109	88-43-38.50	6.37	5.200	5.285
108	107	90-05-07.00	5.52	5.200	5.290
108	109	88-43-37.50	6.37	5.200	5.285
109	108	91-16-34.00	6.37	5.295	5.200
109	110	89-14-03.00	5.86	5.295	5.225
109	108	91-16-33.00	6.37	5.295	5.200
109	110	89-14-03.00	5.86	5.295	5.225
110	109	90-45-59.50	5.86	5.230	5.295
110	111	89-36-50.50	5.73	5.230	5.200
110	109	90-46-00.00	5.86	5.230	5.295
110	111	89-36-50.50	5.73	5.230	5.200
111	110	90-23-18.00	5.73	5.215	5.230
111	112	88-28-16.00	4.04	5.215	5.280
111	110	90-23-18.50	5.73	5.215	5.230
111	112	88-28-18.00	4.04	5.215	5.280
112	111	91-31-23.50	4.04	5.260	5.220
112	113	88-56-01.00	4.87	5.260	4.935
112	111	91-31-25.50	4.04	5.260	5.220
112	113	88-56-04.00	4.87	5.260	4.935
113	112	91-04-18.00	4.87	4.950	5.240
113	114	91-02-58.50	5.83	4.950	5.280
113	112	91-04-17.00	4.87	4.950	5.240
113	114	91-03-00.00	5.83	4.950	5.280
114	113	88-57-02.50	5.83	5.280	4.950
114	115	91-05-57.50	6.94	5.280	5.295
114	113	88-57-03.50	5.83	5.280	4.950
114	115	91-05-57.50	6.94	5.280	5.295
115	114	88-54-12.00	6.94	5.310	5.280
115	116	90-58-01.50	7.41	5.310	5.215
115	114	88-54-13.00	6.94	5.310	5.280
115	116	90-58-01.50	7.41	5.310	5.215
116	115	89-01-59.50	7.41	5.215	5.310
116	117	90-37-21.00	6.20	5.215	5.205
116	115	89-02-01.00	7.41	5.215	5.310
116	117	90-37-22.00	6.20	5.215	5.205

117	116	89-22-48.50	6.20	5.215	5.215
117	118	90-54-49.50	6.26	5.215	5.310
117	116	89-22-48.50	6.20	5.215	5.215
117	118	90-54-50.50	6.26	5.215	5.310
118	117	89-05-15.50	6.26	5.320	5.215
118	119	90-07-24.50	10.45	5.320	5.310
118	117	89-05-16.00	6.26	5.320	5.215
118	119	90-07-23.00	10.45	5.320	5.310
119	118	89-52-48.00	10.45	5.320	5.320
119	120	89-52-03.00	7.86	5.320	5.140
119	118	89-52-49.50	10.45	5.320	5.320
119	120	89-52-03.00	7.86	5.320	5.140
120	119	90-08-00.50	7.86	5.140	5.320
120	121	89-38-14.00	8.07	5.140	5.335
120	119	90-08-00.50	7.86	5.140	5.320
120	121	89-38-14.00	8.07	5.140	5.335
121	120	90-19-57.00	8.07	5.075	4.980
121	122	89-49-24.00	8.13	5.075	5.230
121	120	90-19-54.50	8.07	5.075	4.980
121	122	89-49-24.50	8.13	5.075	5.230
122	121	90-10-36.00	8.13	5.235	5.075
122	123	90-10-54.00	7.72	5.235	5.350
122	121	90-10-39.00	8.13	5.235	5.075
122	123	90-10-53.50	7.72	5.235	5.350
123	122	89-49-15.50	7.72	5.365	5.235
123	124	90-44-13.50	5.74	5.365	5.310
123	122	89-49-14.50	7.72	5.365	5.235
123	124	90-44-13.50	5.74	5.365	5.310
124	123	89-15-50.00	5.74	5.315	5.365
124	125	89-50-26.50	5.26	5.315	4.965
124	123	89-15-50.00	5.74	5.315	5.365
124	125	89-50-26.00	5.26	5.315	4.965
125	124	90-09-46.50	5.26	4.970	5.305
125	126	90-33-09.50	8.17	4.970	4.750
125	124	90-09-47.50	5.26	4.970	5.305
125	126	90-33-10.00	8.17	4.970	4.750
126	125	89-26-55.00	8.17	4.755	4.970
126	127	90-12-21.00	7.59	4.755	4.945
126	125	89-26-55.00	8.17	4.755	4.970
126	127	90-12-19.00	7.59	4.755	4.945
127	126	89-47-51.00	7.59	4.950	4.755
127	128	90-20-29.50	6.57	4.950	5.120
127	126	89-47-51.00	7.59	4.950	4.755
127	128	90-20-27.50	6.57	4.950	5.120
128	127	89-39-36.50	6.57	5.120	4.950
128	129	90-03-18.50	8.16	5.120	5.205
128	127	89-39-36.00	6.57	5.120	4.950
128	129	90-03-22.00	8.16	5.120	5.205
129	128	89-57-00.00	8.16	5.220	5.120
129	130	89-03-39.00	4.27	5.220	5.110
129	128	89-56-56.50	8.16	5.220	5.120
129	130	89-03-45.50	4.27	5.220	5.110
130	129	90-58-00.00	4.27	5.295	5.285
130	131	87-59-35.50	4.99	5.295	5.150
130	129	90-58-00.00	4.27	5.295	5.285
130	131	87-59-39.00	4.99	5.295	5.150
131	130	92-00-28.00	4.99	5.205	5.295
131	132	90-22-29.00	7.68	5.205	5.185

131	130	92-00-30.00	4.99	5.205	5.295
131	132	90-22-30.00	7.68	5.205	5.185
132	131	89-37-43.00	7.68	5.200	5.205
132	133	91-09-44.00	7.01	5.200	5.360
132	131	89-37-42.00	7.68	5.200	5.205
132	133	91-09-42.00	7.01	5.200	5.360
133	132	88-50-22.00	7.01	5.365	5.200
133	134	90-22-21.50	6.04	5.365	5.040
133	132	88-50-22.00	7.01	5.365	5.200
133	134	90-22-21.00	6.04	5.365	5.040
134	133	89-37-44.00	6.04	5.040	5.365
134	135	89-07-58.50	4.45	5.040	5.240
134	133	89-37-41.00	6.04	5.040	5.365
134	135	89-08-01.00	4.45	5.040	5.240
135	134	90-49-29.00	4.45	5.190	5.225
135	136	88-39-01.50	5.34	5.190	5.250
135	134	90-49-33.00	4.45	5.190	5.225
135	136	88-39-06.50	5.34	5.190	5.250
136	135	91-20-59.00	5.34	5.250	5.180
136	137	91-53-52.00	6.43	5.250	5.260
136	135	91-20-58.00	5.34	5.250	5.180
136	137	91-53-51.50	6.43	5.250	5.260
137	136	88-06-15.00	6.43	5.265	5.250
137	138	90-36-17.50	5.55	5.265	5.240
137	136	88-06-19.00	6.43	5.265	5.250
137	138	90-36-17.00	5.55	5.265	5.240
138	137	89-23-47.50	5.55	5.245	5.265
138	139	88-37-45.50	5.76	5.245	5.210
138	137	89-23-45.50	5.55	5.245	5.265
138	139	88-37-42.50	5.76	5.245	5.210
138	137	89-23-47.50	5.55	5.245	5.265
138	139	88-37-41.50	5.76	5.245	5.210
138	137	89-23-47.00	5.55	5.245	5.265
138	139	88-37-43.00	5.76	5.245	5.210
139	138	91-17-23.00	5.76	4.995	5.395
139	140	87-16-30.00	6.35	4.995	5.205
139	138	91-17-22.00	5.76	4.995	5.395
139	140	87-16-30.00	6.35	4.995	5.205
140	139	92-43-33.50	6.35	5.210	4.995
140	141	87-34-10.50	5.58	5.210	5.375
140	139	92-43-32.50	6.35	5.210	4.995
140	141	87-34-11.00	5.58	5.210	5.375
141	140	92-25-54.50	5.58	5.385	5.210
141	142	88-47-58.00	8.81	5.385	5.240
141	140	92-25-55.00	5.58	5.385	5.210
141	142	88-47-58.50	8.81	5.385	5.240
142	141	91-12-03.50	8.81	5.245	5.385
142	143	89-49-00.50	10.00	5.245	5.250
142	141	91-12-04.50	8.81	5.245	5.385
142	143	89-49-00.50	10.00	5.245	5.250
143	142	90-11-03.00	10.00	5.260	5.245
143	144	90-51-51.50	4.05	5.260	5.350
143	142	90-11-03.00	10.00	5.260	5.245
143	144	90-51-49.50	4.05	5.260	5.350
144	143	89-08-13.50	4.05	5.355	5.250
144	145	92-36-11.00	6.19	5.355	5.275
144	143	89-08-15.50	4.05	5.355	5.250
144	145	92-36-10.50	6.19	5.355	5.275

145	144	87-23-54.50	6.19	5.285	5.355
145	146	90-48-48.00	6.62	5.285	5.200
145	144	87-23-55.50	6.19	5.285	5.355
145	146	90-48-47.00	6.62	5.285	5.200
146	145	89-11-16.50	6.62	5.210	5.285
146	147	90-40-34.50	4.25	5.210	5.360
146	145	89-11-16.50	6.62	5.210	5.285
146	147	90-40-35.00	4.25	5.210	5.360
147	146	89-19-33.50	4.25	5.375	5.210
147	148	90-01-43.00	3.90	5.375	5.505
147	146	89-19-33.00	4.25	5.375	5.210
147	148	90-01-43.00	3.90	5.375	5.505
147	146	89-19-31.50	4.25	5.375	5.210
147	148	90-01-45.00	3.90	5.375	5.505
147	146	89-19-33.00	4.25	5.375	5.210
147	148	90-01-43.00	3.90	5.375	5.505
148	147	89-58-22.50	3.90	5.515	5.375
148	149	90-13-16.50	3.60	5.515	5.310
148	147	89-58-21.50	3.90	5.515	5.375
148	149	90-13-15.50	3.60	5.515	5.310
149	148	89-47-08.00	3.60	5.140	5.300
149	150	90-24-44.50	5.95	5.140	5.345
149	148	89-47-08.00	3.60	5.140	5.300
149	150	90-24-45.00	5.95	5.140	5.345
150	149	89-35-19.50	5.95	5.350	5.140
150	151	89-57-14.50	5.15	5.350	5.280
150	149	89-35-19.50	5.95	5.350	5.140
150	151	89-57-15.00	5.15	5.350	5.280
151	150	90-02-56.00	5.15	5.290	5.350
151	152	89-33-27.50	4.59	5.290	5.175
151	150	90-02-55.50	5.15	5.290	5.350
151	152	89-33-27.50	4.59	5.290	5.175
152	151	90-26-38.00	4.59	5.180	5.290
152	153	88-57-30.50	7.26	5.180	5.215
152	151	90-26-36.50	4.59	5.180	5.290
152	153	88-57-31.00	7.26	5.180	5.215
153	152	91-02-38.50	7.26	5.230	5.180
153	154	88-53-22.00	6.60	5.230	5.355
153	152	91-02-41.00	7.26	5.230	5.180
153	154	88-53-21.50	6.60	5.230	5.355
154	153	91-06-43.50	6.60	5.360	5.230
154	155	90-41-46.00	5.92	5.360	5.390
154	153	91-06-44.00	6.60	5.360	5.230
154	155	90-41-45.00	5.92	5.360	5.390
155	154	89-18-28.50	5.92	5.405	5.360
155	156	90-26-37.50	6.01	5.405	5.225
155	154	89-18-30.00	5.92	5.405	5.360
155	156	90-26-37.50	6.01	5.405	5.225
156	155	89-33-19.00	6.01	5.230	5.405
156	157	89-13-43.50	8.93	5.230	5.140
156	155	89-33-22.50	6.01	5.230	5.405
156	157	89-13-44.00	8.93	5.230	5.140
157	156	90-46-27.00	8.93	5.150	5.230
157	158	89-40-01.50	4.47	5.150	5.010
157	156	90-46-25.00	8.93	5.150	5.230
157	158	89-40-02.50	4.47	5.150	5.010

Adjustment Statistical Summary

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Iterations = 3  
Number of Stations = 62  
Number of Observations = 605  
Number of Unknowns = 168  
Number of Redundant Obs = 437

Observation	Count	Sum Squares of StdRes	Error Factor
Angles	121	24.333	0.528
Distances	242	46.413	0.515
Zeniths	242	346.617	1.408
Total	605	417.363	0.977

The Chi-Square Test at 5.00% Level Passed  
Lower/Upper Bounds (0.934/1.066)

Adjusted Coordinates (FeetUS)

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Station	N	E	Elev	Description
100	3021977.9840	777861.9890	93.6090	MTRV MAG FND
101	3021789.6290	778094.9380	93.7420	MTRV SBDH FND
102	3021654.3126	778197.9628	95.1295	MTRV MAG SET
103	3021515.6311	778377.8056	99.2026	MTRV MAG NAIL
SET				
104	3021438.3655	778444.8024	99.5439	MTRV MAG NAIL
FND				
105	3021327.4708	778534.3868	101.0211	MTRV MAG NAIL
SET				
106	3021153.6482	778668.5001	99.0782	MTRV MAG NAIL
SET				
107	3020902.9297	778829.2655	96.7429	MTRV MAG NAIL
SET				
108	3020682.0756	778974.3731	97.2227	MTRV MAG NAIL
SET				
109	3020496.3903	779106.9143	102.2042	MTRV MAG NAIL
SET				
110	3020296.2991	779254.5891	105.5940	MTRV MAG NAIL
FND				
111	3020090.0516	779403.7519	107.3329	MTRV MAG NAIL
SET				
112	3019794.4786	779621.3091	117.0541	MTRV MAG NAIL
FND				
113	3019569.7399	779821.3620	122.9709	MTRV MAG NAIL
SET				
114	3019386.5558	779991.5013	118.0575	MTRV MAG NAIL
SET				
115	3019231.8507	780131.9934	114.0265	MTRV MAG NAIL
SET				
116	3019074.2791	780247.6107	110.8197	MTRV MAG NAIL
SET				
117	3018862.5927	780348.5756	108.2780	MTRV MAG NAIL
SET				
118	3018658.8724	780459.9327	104.4742	MTRV MAG NAIL
SET				
119	3018550.1909	780544.9637	104.1830	MTRV MAG NAIL
SET				
120	3018418.1540	780673.3567	104.7869	MTRV MAG NAIL
SET				
121	3018319.3761	780822.8861	105.7252	MTRV MAG NAIL
SET				
122	3018226.1158	780974.3038	106.1131	MTRV MAG NAIL
SET				
123	3018126.4743	781133.0723	105.3969	MTRV MAG NAIL
SET				
124	3017989.9267	781347.2807	102.1798	MTRV MAG NAIL
SET				
125	3017944.0441	781621.3666	103.3006	MTRV MAG NAIL
SET				
126	3017918.8899	781796.4978	101.8098	MTRV MAG NAIL
SET				
127	3017897.1882	781986.1609	100.9340	MTRV MAG NAIL
SET				

128		3017814.8097	782191.2830	99.4464	MTRV	MAG	NAIL
SET							
129		3017823.1260	782367.5920	99.1870	MMON	DOT	GPS
2311							
130		3017751.2060	782705.3550	105.0210	MTRV	MAG	NAIL
FND	- DOTGPS2311						
131		3017657.8667	782983.2599	115.4097	MTRV	MAG	NAIL
SET							
132		3017568.0867	783148.9920	114.1915	MTRV	MAG	NAIL
SET							
133		3017470.3489	783331.1570	109.8356	MTRV	MAG	NAIL
FND							
134		3017356.4928	783543.5207	108.5929	MTRV	MAG	NAIL
SET							
135		3017197.1617	783833.5102	113.3934	MTRV	MAG	NAIL
SET							
136		3017031.4828	784051.2164	119.7690	MTRV	MAG	NAIL
SET							
137		3016979.7889	784271.0880	112.2746	MTRV	MAG	NAIL
SET							
138		3016892.7002	784519.0925	109.5226	MTRV	MAG	NAIL
SET							
139		3016812.9737	784758.9850	115.6091	MTRV	MAG	NAIL
SET							
140		3016710.6304	784963.3479	126.2737	MTRV	MAG	NAIL
SET							
141		3016535.8717	785157.5876	137.1939	MTRV	MAG	NAIL
SET							
142		3016417.4995	785271.1411	140.7718	MTRV	MAG	NAIL
SET							
143		3016308.8897	785366.1770	141.2215	MTRV	MAG	NAIL
SET							
144		3016022.5579	785593.7395	135.6094	MTRV	MAG	NAIL
FND							
145		3015837.5725	785738.0958	125.0173	MTRV	MAG	NAIL
FND							
146		3015643.0371	785839.2031	121.9846	MTRV	MAG	NAIL
FND							
147		3015368.8885	786052.5243	117.7296	MTRV	MAG	NAIL
SET							
148		3015100.9411	786322.4259	117.4078	MTRV	MAG	NAIL
SET							
149		3014815.0263	786623.8464	116.0080	MTRV	MAG	NAIL
FND							
150		3014603.0883	786746.2729	114.0382	MTRV	MAG	NAIL
SET							
151		3014339.0025	786850.6634	114.3349	MTRV	MAG	NAIL
SET							
152		3014061.1832	787010.6255	116.9232	MTRV	MAG	NAIL
SET							
153		3013883.6735	787101.9888	120.5121	MTRV	MAG	NAIL
SET							
154		3013687.3769	787201.5110	124.6512	MTRV	MAG	NAIL
SET							
155		3013487.8281	787345.4047	121.6310	MTRV	MAG	NAIL
SET							
156		3013260.0830	787427.8729	119.9285	MTRV	MAG	NAIL
SET							

157	3013149.0390	787545.3160	122.1900	MTRV REBAR FND
GPS POINT2309				
158	3012821.6210	787506.6160	124.2310	MTRV MAG NAIL
FND GPS POINT2308				
500	3021707.9880	778123.9547	93.0345	MMON SBDH FND
501	3021707.0823	778125.3500	93.0977	MMON ECSB FND
502	3021776.9796	777981.0100	90.3935	MMON SB FND
BACK CEN				



Adjusted Observations and Residuals

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Adjusted Angle Observations (DMS)

At	From	To	Angle	Residual	Distance
StdErr	StdRes	File:Line			
101	100	102	193-45-28.24	-0-00-09.76	-0.0080
7.77	1.3	2:27			
101	100	102	193-45-28.24	-0-00-07.26	-0.0060
7.77	0.9	2:29			
101	100	500	211-28-33.50	-0-00-00.00	-0.0000
12.78	0.0	2:31			
101	100	501	210-49-02.00	-0-00-00.00	-0.0000
12.63	0.0	2:33			
101	100	502	314-42-23.50	-0-00-00.00	-0.0000
7.88	0.0	2:35			
102	101	103	164-55-15.72	-0-00-08.78	-0.0097
8.56	1.0	2:37			
102	101	103	164-55-15.72	-0-00-10.78	-0.0119
8.56	1.3	2:39			
103	102	104	191-26-05.25	-0-00-01.75	-0.0009
12.04	0.1	2:41			
103	102	104	191-26-05.25	0-00-01.75	0.0009
12.04	0.1	2:43			
103	102	105	192-35-49.39	-0-00-05.61	-0.0067
7.08	0.8	2:45			
103	102	105	192-35-49.39	-0-00-08.11	-0.0096
7.08	1.1	2:47			
105	103	106	182-06-50.79	-0-00-04.71	-0.0050
7.23	0.7	2:49			
105	103	106	182-06-50.79	-0-00-08.71	-0.0093
7.23	1.2	2:51			
106	105	107	184-58-59.99	-0-00-04.51	-0.0065
6.65	0.7	2:53			
106	105	107	184-58-59.99	-0-00-06.01	-0.0087
6.65	0.9	2:55			
107	106	108	179-21-45.64	-0-00-02.36	-0.0030
6.01	0.4	2:57			
107	106	108	179-21-45.64	-0-00-04.86	-0.0062
6.01	0.8	2:59			
108	107	109	177-47-13.31	-0-00-03.19	-0.0035
6.85	0.5	2:61			
108	107	109	177-47-13.31	-0-00-04.69	-0.0052
6.85	0.7	2:63			
109	108	110	179-05-25.17	-0-00-03.83	-0.0046
7.04	0.5	2:65			
109	108	110	179-05-25.17	-0-00-03.33	-0.0040
7.04	0.5	2:67			
110	109	111	180-33-12.33	-0-00-03.17	-0.0039
6.66	0.5	2:69			
110	109	111	180-33-12.33	-0-00-02.17	-0.0027
6.66	0.3	2:71			
111	110	112	179-31-13.00	-0-00-05.00	-0.0089
5.63	0.9	2:73			
111	110	112	179-31-13.00	0-00-02.00	0.0036
5.63	0.4	2:75			

112		111	113	174-40-51.23	-0-00-04.27	-0.0062
5.12	0.8	2:77				
112		111	113	174-40-51.23	0-00-02.73	0.0040
5.12	0.5	2:79				
113		112	114	178-47-18.69	-0-00-00.81	-0.0010
6.16	0.1	2:81				
113		112	114	178-47-18.69	-0-00-00.81	-0.0010
6.16	0.1	2:83				
114		113	115	180-38-31.65	-0-00-00.35	-0.0004
7.36	0.0	2:85				
114		113	115	180-38-31.65	-0-00-01.35	-0.0014
7.36	0.2	2:87				
115		114	116	185-58-27.54	0-00-00.04	0.0000
8.26	0.0	2:89				
115		114	116	185-58-27.54	-0-00-01.46	-0.0014
8.26	0.2	2:91				
116		115	117	190-46-12.45	-0-00-00.05	-0.0001
7.83	0.0	2:93				
116		115	117	190-46-12.45	-0-00-00.05	-0.0001
7.83	0.0	2:95				
117		116	118	176-50-14.04	0-00-01.04	0.0012
7.17	0.1	2:97				
117		116	118	176-50-14.04	0-00-01.04	0.0012
7.17	0.1	2:99				
118		117	119	170-37-21.38	0-00-06.38	0.0043
9.71	0.7	2:101				
118		117	119	170-37-21.38	0-00-00.88	0.0006
9.71	0.1	2:103				
119		118	120	173-50-26.96	0-00-04.96	0.0044
10.58	0.5	2:105				
119		118	120	173-50-26.96	0-00-04.96	0.0044
10.58	0.5	2:107				
120		119	121	167-38-48.47	0-00-04.47	0.0039
9.14	0.5	2:109				
120		119	121	167-38-48.47	0-00-03.47	0.0030
9.14	0.4	2:111				
121		120	122	178-10-51.88	0-00-05.38	0.0046
9.34	0.6	2:113				
121		120	122	178-10-51.88	0-00-01.88	0.0016
9.34	0.2	2:115				
122		121	123	180-28-56.88	0-00-02.88	0.0026
9.14	0.3	2:117				
122		121	123	180-28-56.88	0-00-02.88	0.0026
9.14	0.3	2:119				
123		122	124	180-24-12.91	0-00-02.91	0.0036
7.78	0.4	2:121				
123		122	124	180-24-12.91	0-00-00.41	0.0005
7.78	0.1	2:123				
124		123	125	156-59-15.96	0-00-00.46	0.0006
6.24	0.1	2:125				
124		123	125	156-59-15.96	0-00-00.96	0.0013
6.24	0.2	2:127				
125		124	126	178-40-12.79	-0-00-00.21	-0.0002
7.79	0.0	2:129				
125		124	126	178-40-12.79	-0-00-01.71	-0.0015
7.79	0.2	2:131				
126		125	127	178-21-14.33	-0-00-01.67	-0.0015
9.08	0.2	2:133				

126		125	127	178-21-14.33	-0-00-04.67	-0.0043
9.08	0.5	2:135				
127		126	128	195-21-11.56	-0-00-02.44	-0.0026
8.11	0.3	2:137				
127		126	128	195-21-11.56	-0-00-05.94	-0.0064
8.11	0.7	2:139				
128		127	129	155-25-07.33	-0-00-06.67	-0.0057
8.37	0.8	2:141				
128		127	129	155-25-07.33	-0-00-04.67	-0.0040
8.37	0.6	2:143				
129		128	130	194-43-15.78	-0-00-09.22	-0.0154
7.23	1.3	2:145				
129		128	130	194-43-15.78	-0-00-02.22	-0.0037
7.23	0.3	2:147				
130		129	131	186-32-42.17	-0-00-00.83	-0.0012
5.32	0.2	2:149				
130		129	131	186-32-42.17	-0-00-01.33	-0.0019
5.32	0.3	2:151				
131		130	132	189-52-46.75	-0-00-00.75	-0.0007
7.33	0.1	2:153				
131		130	132	189-52-46.75	-0-00-03.25	-0.0030
7.33	0.4	2:155				
132		131	133	179-46-11.69	-0-00-02.31	-0.0023
8.47	0.3	2:157				
132		131	133	179-46-11.69	-0-00-02.81	-0.0028
8.47	0.3	2:159				
133		132	134	179-58-56.31	-0-00-01.69	-0.0020
7.52	0.2	2:161				
133		132	134	179-58-56.31	-0-00-02.19	-0.0026
7.52	0.3	2:163				
134		133	135	180-35-19.06	-0-00-02.44	-0.0039
6.05	0.4	2:165				
134		133	135	180-35-19.06	0-00-00.06	0.0001
6.05	0.0	2:167				
135		134	136	188-29-09.05	-0-00-03.45	-0.0046
5.62	0.6	2:169				
135		134	136	188-29-09.05	0-00-01.55	0.0021
5.62	0.3	2:171				
136		135	137	155-57-31.02	-0-00-01.98	-0.0022
6.69	0.3	2:173				
136		135	137	155-57-31.02	-0-00-00.48	-0.0005
6.69	0.1	2:175				
137		136	138	186-07-06.96	-0-00-01.04	-0.0013
6.90	0.2	2:177				
137		136	138	186-07-06.96	-0-00-01.54	-0.0020
6.90	0.2	2:179				
138		137	139	179-02-05.07	-0-00-01.43	-0.0017
6.51	0.2	2:181				
138		137	139	179-02-05.07	0-00-02.57	0.0032
6.51	0.4	2:183				
138		137	139	179-02-05.07	-0-00-02.43	-0.0030
6.51	0.4	2:185				
138		137	139	179-02-05.07	-0-00-00.93	-0.0011
6.51	0.1	2:187				
139		138	140	188-13-03.03	-0-00-01.47	-0.0016
6.97	0.2	2:189				
139		138	140	188-13-03.03	-0-00-00.97	-0.0011
6.97	0.1	2:191				

140		139	141	195-22-35.65	-0-00-01.85	-0.0023
6.84	0.3	2:193				
140		139	141	195-22-35.65	-0-00-00.35	-0.0004
6.84	0.1	2:195				
141		140	142	184-12-44.32	-0-00-01.68	-0.0013
8.35	0.2	2:197				
141		140	142	184-12-44.32	-0-00-01.18	-0.0009
8.35	0.1	2:199				
142		141	143	182-37-23.33	-0-00-02.17	-0.0015
10.85	0.2	2:201				
142		141	143	182-37-23.33	-0-00-02.17	-0.0015
10.85	0.2	2:203				
143		142	144	182-42-38.36	-0-00-01.64	-0.0029
8.32	0.2	2:205				
143		142	144	182-42-38.36	-0-00-00.64	-0.0011
8.32	0.1	2:207				
144		143	145	180-30-31.35	-0-00-02.15	-0.0024
5.93	0.4	2:209				
144		143	145	180-30-31.35	0-00-01.35	0.0015
5.93	0.2	2:211				
145		144	146	190-30-16.82	0-00-00.32	0.0003
7.36	0.0	2:213				
145		144	146	190-30-16.82	-0-00-01.18	-0.0013
7.36	0.2	2:215				
146		145	147	169-34-31.08	-0-00-01.42	-0.0024
6.28	0.2	2:217				
146		145	147	169-34-31.08	0-00-01.08	0.0018
6.28	0.2	2:219				
147		146	148	172-40-44.76	-0-00-01.74	-0.0032
4.67	0.4	2:221				
147		146	148	172-40-44.76	0-00-01.26	0.0023
4.67	0.3	2:223				
147		146	148	172-40-44.76	0-00-02.26	0.0042
4.67	0.5	2:225				
147		146	148	172-40-44.76	-0-00-01.74	-0.0032
4.67	0.4	2:227				
148		147	149	178-41-45.35	-0-00-00.15	-0.0003
4.29	0.0	2:229				
148		147	149	178-41-45.35	0-00-00.35	0.0007
4.29	0.1	2:231				
149		148	150	196-29-57.32	-0-00-00.18	-0.0002
5.50	0.0	2:233				
149		148	150	196-29-57.32	0-00-00.82	0.0010
5.50	0.1	2:235				
150		149	151	188-26-40.59	-0-00-00.91	-0.0013
6.38	0.1	2:237				
150		149	151	188-26-40.59	0-00-02.09	0.0029
6.38	0.3	2:239				
151		150	152	171-38-09.61	0-00-00.61	0.0010
5.59	0.1	2:241				
151		150	152	171-38-09.61	0-00-00.61	0.0010
5.59	0.1	2:243				
152		151	153	182-41-51.92	0-00-01.42	0.0014
6.87	0.2	2:245				
152		151	153	182-41-51.92	0-00-00.92	0.0009
6.87	0.1	2:247				
153		152	154	180-20-58.80	0-00-01.80	0.0019
7.98	0.2	2:249				

153		152	154	180-20-58.80	0-00-01.80	0.0019
7.98	0.2	2:251				
154		153	155	171-05-23.15	0-00-01.65	0.0020
7.19	0.2	2:253				
154		153	155	171-05-23.15	0-00-01.65	0.0020
7.19	0.2	2:255				
155		154	156	195-53-22.16	0-00-00.16	0.0002
6.82	0.0	2:257				
155		154	156	195-53-22.16	0-00-03.16	0.0037
6.82	0.5	2:259				
156		155	157	153-18-05.41	0-00-03.41	0.0027
8.51	0.4	2:261				
156		155	157	153-18-05.41	0-00-02.41	0.0019
8.51	0.3	2:263				
157		156	158	233-20-42.55	0-00-03.05	0.0049
7.39	0.4	2:265				
157		156	158	233-20-42.55	0-00-01.55	0.0025
7.39	0.2	2:267				

Adjusted Distance Observations (FeetUS)

StdRes	From File:Line	To	Distance	Residual	StdErr
	101	100	299.5726	-0.0061	0.0085
0.7	2:26				
	101	102	170.0892	0.0011	0.0083
0.1	2:27				
	101	100	299.5726	-0.0055	0.0085
0.6	2:28				
	101	102	170.0892	-0.0004	0.0083
0.0	2:29				
	101	100	299.5726	-0.0073	0.0085
0.9	2:30				
	101	500	86.6626	-0.0000	0.0082
0.0	2:31				
	101	100	299.5726	-0.0066	0.0085
0.8	2:32				
	101	501	87.9901	0.0000	0.0082
0.0	2:33				
	101	100	299.5726	-0.0058	0.0085
0.7	2:34				
	101	502	114.6578	-0.0000	0.0082
0.0	2:35				
	102	101	170.0892	0.0026	0.0083
0.3	2:36				
	102	103	227.1402	-0.0026	0.0084
0.3	2:37				
	102	101	170.0892	0.0029	0.0083
0.3	2:38				
	102	103	227.1402	-0.0034	0.0084
0.4	2:39				
	103	102	227.1404	0.0032	0.0084
0.4	2:40				
	103	104	102.2679	-0.0006	0.0082
0.1	2:41				
	103	102	227.1404	0.0035	0.0084
0.4	2:42				

	103	104	102.2679	0.0006	0.0082
0.1	2:43				
	103	102	227.1404	0.0028	0.0084
0.3	2:44				
	103	105	244.7966	-0.0023	0.0084
0.3	2:45				
	103	102	227.1404	0.0030	0.0084
0.4	2:46				
	103	105	244.7966	-0.0019	0.0084
0.2	2:47				
	105	103	244.7964	0.0052	0.0084
0.6	2:48				
	105	106	219.5563	0.0043	0.0084
0.5	2:49				
	105	103	244.7964	0.0055	0.0084
0.7	2:50				
	105	106	219.5563	0.0002	0.0084
0.0	2:51				
	106	105	219.5563	0.0012	0.0084
0.1	2:52				
	106	107	297.8422	-0.0003	0.0085
0.0	2:53				
	106	105	219.5563	0.0012	0.0084
0.1	2:54				
	106	107	297.8422	-0.0002	0.0085
0.0	2:55				
	107	106	297.8421	0.0042	0.0085
0.5	2:56				
	107	108	264.2592	0.0008	0.0085
0.1	2:57				
	107	106	297.8421	0.0030	0.0085
0.4	2:58				
	107	108	264.2592	0.0006	0.0085
0.1	2:59				
	108	107	264.2592	0.0023	0.0085
0.3	2:60				
	108	109	228.1927	0.0004	0.0084
0.0	2:61				
	108	107	264.2592	0.0029	0.0085
0.3	2:62				
	108	109	228.1927	0.0007	0.0084
0.1	2:63				
	109	108	228.1929	0.0024	0.0084
0.3	2:64				
	109	110	248.7075	0.0021	0.0084
0.2	2:65				
	109	108	228.1929	0.0027	0.0084
0.3	2:66				
	109	110	248.7075	0.0028	0.0084
0.3	2:67				
	110	109	248.7076	0.0007	0.0084
0.1	2:68				
	110	111	254.5398	0.0023	0.0085
0.3	2:69				
	110	109	248.7076	0.0009	0.0084
0.1	2:70				
	110	111	254.5398	0.0023	0.0085
0.3	2:71				

	111	110	254.5399	0.0009	0.0085
0.1	2:72				
	111	112	367.1381	0.0050	0.0086
0.6	2:73				
	111	110	254.5399	0.0012	0.0085
0.1	2:74				
	111	112	367.1381	0.0041	0.0086
0.5	2:75				
	112	111	367.1374	-0.0007	0.0086
0.1	2:76				
	112	113	300.9319	0.0039	0.0085
0.5	2:77				
	112	111	367.1374	-0.0020	0.0086
0.2	2:78				
	112	113	300.9319	0.0038	0.0085
0.4	2:79				
	113	112	300.9325	-0.0004	0.0085
0.0	2:80				
	113	114	250.0496	0.0042	0.0085
0.5	2:81				
	113	112	300.9325	-0.0007	0.0085
0.1	2:82				
	113	114	250.0496	0.0042	0.0085
0.5	2:83				
	114	113	250.0496	-0.0008	0.0085
0.1	2:84				
	114	115	209.0164	0.0022	0.0084
0.3	2:85				
	114	113	250.0496	-0.0006	0.0085
0.1	2:86				
	114	115	209.0164	0.0032	0.0084
0.4	2:87				
	115	114	209.0161	0.0012	0.0084
0.1	2:88				
	115	116	195.4663	0.0015	0.0084
0.2	2:89				
	115	114	209.0161	0.0006	0.0084
0.1	2:90				
	115	116	195.4663	0.0016	0.0084
0.2	2:91				
	116	115	195.4663	0.0015	0.0084
0.2	2:92				
	116	117	234.5455	0.0022	0.0084
0.3	2:93				
	116	115	195.4663	0.0021	0.0084
0.3	2:94				
	116	117	234.5455	0.0023	0.0084
0.3	2:95				
	117	116	234.5454	0.0009	0.0084
0.1	2:96				
	117	118	232.1985	0.0051	0.0084
0.6	2:97				
	117	116	234.5454	0.0009	0.0084
0.1	2:98				
	117	118	232.1985	0.0054	0.0084
0.6	2:99				
	118	117	232.1983	-0.0019	0.0084
0.2	2:100				

	118	119	137.9929	0.0007	0.0083
0.1	2:101				
	118	117	232.1983	-0.0020	0.0084
0.2	2:102				
	118	119	137.9929	-0.0001	0.0083
0.0	2:103				
	119	118	137.9929	0.0032	0.0083
0.4	2:104				
	119	120	184.1702	0.0033	0.0083
0.4	2:105				
	119	118	137.9929	0.0027	0.0083
0.3	2:106				
	119	120	184.1702	0.0027	0.0083
0.3	2:107				
	120	119	184.1702	0.0005	0.0083
0.1	2:108				
	120	121	179.2133	0.0006	0.0083
0.1	2:109				
	120	119	184.1702	-0.0001	0.0083
0.0	2:110				
	120	121	179.2133	0.0014	0.0083
0.2	2:111				
	121	120	179.2127	0.0016	0.0083
0.2	2:112				
	121	122	177.8346	0.0003	0.0083
0.0	2:113				
	121	120	179.2127	0.0028	0.0083
0.3	2:114				
	121	122	177.8346	0.0008	0.0083
0.1	2:115				
	122	121	177.8346	0.0021	0.0083
0.3	2:116				
	122	123	187.4467	0.0023	0.0083
0.3	2:117				
	122	121	177.8346	0.0033	0.0083
0.4	2:118				
	122	123	187.4467	0.0020	0.0083
0.2	2:119				
	123	122	187.4466	0.0004	0.0083
0.1	2:120				
	123	124	254.0496	-0.0020	0.0085
0.2	2:121				
	123	122	187.4466	0.0019	0.0083
0.2	2:122				
	123	124	254.0496	-0.0019	0.0085
0.2	2:123				
	124	123	254.0495	0.0043	0.0085
0.5	2:124				
	124	125	277.9009	-0.0010	0.0085
0.1	2:125				
	124	123	254.0495	0.0067	0.0085
0.8	2:126				
	124	125	277.9009	-0.0001	0.0085
0.0	2:127				
	125	124	277.9010	0.0036	0.0085
0.4	2:128				
	125	126	176.9368	0.0008	0.0083
0.1	2:129				



	125	124	277.9010	0.0033	0.0085
0.4	2:130				
	125	126	176.9368	0.0016	0.0083
0.2	2:131				
	126	125	176.9367	0.0019	0.0083
0.2	2:132				
	126	127	190.9020	0.0009	0.0084
0.1	2:133				
	126	125	176.9367	0.0015	0.0083
0.2	2:134				
	126	127	190.9020	0.0011	0.0084
0.1	2:135				
	127	126	190.9020	0.0023	0.0084
0.3	2:136				
	127	128	221.0498	0.0021	0.0084
0.3	2:137				
	127	126	190.9020	0.0013	0.0084
0.2	2:138				
	127	128	221.0498	0.0026	0.0084
0.3	2:139				
	128	127	221.0498	0.0003	0.0084
0.0	2:140				
	128	129	176.5052	0.0020	0.0083
0.2	2:141				
	128	127	221.0498	0.0014	0.0084
0.2	2:142				
	128	129	176.5052	0.0015	0.0083
0.2	2:143				
	129	128	176.5052	0.0003	0.0083
0.0	2:144				
	129	130	345.3826	0.0191	0.0086
2.2	2:145				
	129	128	176.5052	0.0011	0.0083
0.1	2:146				
	129	130	345.3826	0.0199	0.0086
2.3	2:147				
	130	129	345.3846	0.0229	0.0086
2.7	2:148				
	130	131	293.3399	0.0016	0.0085
0.2	2:149				
	130	129	345.3846	0.0232	0.0086
2.7	2:150				
	130	131	293.3399	0.0006	0.0085
0.1	2:151				
	131	130	293.3419	-0.0012	0.0085
0.1	2:152				
	131	132	188.4917	0.0037	0.0083
0.4	2:153				
	131	130	293.3419	-0.0010	0.0085
0.1	2:154				
	131	132	188.4917	0.0024	0.0083
0.3	2:155				
	132	131	188.4916	-0.0031	0.0083
0.4	2:156				
	132	133	206.7713	0.0010	0.0084
0.1	2:157				
	132	131	188.4916	-0.0025	0.0083
0.3	2:158				

	132	133	206.7713	0.0015	0.0084
0.2	2:159				
	133	132	206.7712	-0.0009	0.0084
0.1	2:160				
	133	134	240.9648	0.0011	0.0084
0.1	2:161				
	133	132	206.7712	-0.0008	0.0084
0.1	2:162				
	133	134	240.9648	0.0005	0.0084
0.1	2:163				
	134	133	240.9648	-0.0009	0.0084
0.1	2:164				
	134	135	330.9160	0.0034	0.0086
0.4	2:165				
	134	133	240.9648	-0.0000	0.0084
0.0	2:166				
	134	135	330.9160	0.0033	0.0086
0.4	2:167				
	135	134	330.9126	-0.0027	0.0086
0.3	2:168				
	135	136	273.6548	-0.0026	0.0085
0.3	2:169				
	135	134	330.9126	-0.0037	0.0086
0.4	2:170				
	135	136	273.6548	-0.0026	0.0085
0.3	2:171				
	136	135	273.6550	0.0020	0.0085
0.2	2:172				
	136	137	225.9907	0.0029	0.0084
0.3	2:173				
	136	135	273.6550	0.0033	0.0085
0.4	2:174				
	136	137	225.9907	0.0032	0.0084
0.4	2:175				
	137	136	225.9905	-0.0027	0.0084
0.3	2:176				
	137	138	262.8658	-0.0004	0.0085
0.0	2:177				
	137	136	225.9905	-0.0022	0.0084
0.3	2:178				
	137	138	262.8658	0.0003	0.0085
0.0	2:179				
	138	137	262.8658	-0.0002	0.0085
0.0	2:180				
	138	139	252.8663	0.0025	0.0085
0.3	2:181				
	138	137	262.8658	-0.0007	0.0085
0.1	2:182				
	138	139	252.8663	0.0021	0.0085
0.2	2:183				
	138	137	262.8658	0.0011	0.0085
0.1	2:184				
	138	139	252.8663	0.0018	0.0085
0.2	2:185				
	138	137	262.8658	0.0008	0.0085
0.1	2:186				
	138	139	252.8663	0.0031	0.0085
0.4	2:187				

	139	138	252.8578	-0.0047	0.0085
0.6	2:188				
	139	140	228.8157	-0.0003	0.0084
0.0	2:189				
	139	138	252.8578	-0.0047	0.0085
0.6	2:190				
	139	140	228.8157	-0.0005	0.0084
0.1	2:191				
	140	139	228.8159	0.0001	0.0084
0.0	2:192				
	140	141	261.5198	0.0007	0.0085
0.1	2:193				
	140	139	228.8159	0.0004	0.0084
0.1	2:194				
	140	141	261.5198	0.0007	0.0085
0.1	2:195				
	141	140	261.5202	-0.0010	0.0085
0.1	2:196				
	141	142	164.0677	-0.0046	0.0083
0.6	2:197				
	141	140	261.5202	-0.0005	0.0085
0.1	2:198				
	141	142	164.0677	-0.0044	0.0083
0.5	2:199				
	142	141	164.0678	0.0044	0.0083
0.5	2:200				
	142	143	144.3195	-0.0017	0.0083
0.2	2:201				
	142	141	164.0678	0.0049	0.0083
0.6	2:202				
	142	143	144.3195	-0.0025	0.0083
0.3	2:203				
	143	142	144.3195	0.0024	0.0083
0.3	2:204				
	143	144	365.7884	-0.0014	0.0086
0.2	2:205				
	143	142	144.3195	0.0021	0.0083
0.3	2:206				
	143	144	365.7884	-0.0004	0.0086
0.0	2:207				
	144	143	365.7881	0.0011	0.0086
0.1	2:208				
	144	145	234.8878	0.0021	0.0084
0.2	2:209				
	144	143	365.7881	0.0014	0.0086
0.2	2:210				
	144	145	234.8878	0.0020	0.0084
0.2	2:211				
	145	144	234.8873	-0.0016	0.0084
0.2	2:212				
	145	146	219.2634	0.0004	0.0084
0.0	2:213				
	145	144	234.8873	-0.0013	0.0084
0.2	2:214				
	145	146	219.2634	0.0001	0.0084
0.0	2:215				
	146	145	219.2633	-0.0000	0.0084
0.0	2:216				

	146	147	347.3907	0.0018	0.0086
0.2	2:217				
	146	145	219.2633	0.0002	0.0084
0.0	2:218				
	146	147	347.3907	0.0013	0.0086
0.2	2:219				
	147	146	347.3906	-0.0005	0.0086
0.1	2:220				
	147	148	380.3193	-0.0005	0.0087
0.1	2:221				
	147	146	347.3906	-0.0005	0.0086
0.1	2:222				
	147	148	380.3193	-0.0004	0.0087
0.0	2:223				
	147	146	347.3906	-0.0005	0.0086
0.1	2:224				
	147	148	380.3193	-0.0004	0.0087
0.0	2:225				
	147	146	347.3906	-0.0008	0.0086
0.1	2:226				
	147	148	380.3193	-0.0007	0.0087
0.1	2:227				
	148	147	380.3193	0.0011	0.0087
0.1	2:228				
	148	149	415.4567	0.0011	0.0087
0.1	2:229				
	148	147	380.3193	0.0013	0.0087
0.2	2:230				
	148	149	415.4567	0.0017	0.0087
0.2	2:231				
	149	148	415.4565	-0.0009	0.0087
0.1	2:232				
	149	150	244.7633	-0.0028	0.0084
0.3	2:233				
	149	148	415.4565	-0.0013	0.0087
0.1	2:234				
	149	150	244.7633	-0.0033	0.0084
0.4	2:235				
	150	149	244.7633	0.0034	0.0084
0.4	2:236				
	150	151	283.9697	-0.0044	0.0085
0.5	2:237				
	150	149	244.7633	0.0032	0.0084
0.4	2:238				
	150	151	283.9697	-0.0050	0.0085
0.6	2:239				
	151	150	283.9698	0.0048	0.0085
0.6	2:240				
	151	152	320.5894	-0.0014	0.0086
0.2	2:241				
	151	150	283.9698	0.0049	0.0085
0.6	2:242				
	151	152	320.5894	-0.0009	0.0086
0.1	2:243				
	152	151	320.5895	0.0008	0.0086
0.1	2:244				
	152	153	199.6750	-0.0016	0.0084
0.2	2:245				

0.2	152	151	320.5895	0.0018	0.0086
0.2	2:246				
	152	153	199.6750	-0.0011	0.0084
0.1	2:247				
	153	152	199.6753	0.0017	0.0084
0.2	2:248				
	153	154	220.1254	-0.0040	0.0084
0.5	2:249				
	153	152	199.6753	0.0010	0.0084
0.1	2:250				
	153	154	220.1254	-0.0042	0.0084
0.5	2:251				
	154	153	220.1255	0.0040	0.0084
0.5	2:252				
	154	155	246.0368	0.0015	0.0084
0.2	2:253				
	154	153	220.1255	0.0041	0.0084
0.5	2:254				
	154	155	246.0368	0.0018	0.0084
0.2	2:255				
	155	154	246.0366	-0.0012	0.0084
0.1	2:256				
	155	156	242.2239	-0.0014	0.0084
0.2	2:257				
	155	154	246.0366	-0.0015	0.0084
0.2	2:258				
	155	156	242.2239	-0.0014	0.0084
0.2	2:259				
	156	155	242.2238	0.0018	0.0084
0.2	2:260				
	156	157	161.6427	-0.0034	0.0083
0.4	2:261				
	156	155	242.2238	0.0014	0.0084
0.2	2:262				
	156	157	161.6427	-0.0036	0.0083
0.4	2:263				
	157	156	161.6429	0.0038	0.0083
0.5	2:264				
	157	158	329.7027	0.0049	0.0086
0.6	2:265				
	157	156	161.6429	0.0034	0.0083
0.4	2:266				
	157	158	329.7027	0.0039	0.0086
0.5	2:267				

Adjusted Zenith Observations (DMS)

StdErr	StdRes	From File:Line	To	Zenith	Residual	Distance
		101	100	89-49-29.89	0-00-10.39	0.0151
4.90	2.1	2:26				
		101	102	89-11-51.40	0-00-05.40	0.0045
8.50	0.6	2:27				
		101	100	89-49-29.89	0-00-08.89	0.0129
4.90	1.8	2:28				
		101	102	89-11-51.40	0-00-02.40	0.0020
8.50	0.3	2:29				

4.90	2.0	101	100	89-49-29.89	0-00-09.89	0.0144
		101	500	88-49-17.50	0-00-00.00	0.0000
16.59	0.0	2:30				
		101	100	89-49-29.89	0-00-10.89	0.0158
4.90	2.2	2:31				
		101	501	88-47-53.50	-0-00-00.00	-0.0000
16.34	0.0	2:32				
		101	100	89-49-29.89	0-00-08.89	0.0129
4.90	1.8	2:33				
		101	502	91-18-13.50	-0-00-00.00	-0.0000
12.56	0.0	2:34				
		102	101	90-48-10.04	-0-00-04.96	-0.0041
8.50	0.6	2:35				
		102	103	88-58-17.43	0-00-02.43	0.0027
6.40	0.4	2:36				
		102	101	90-48-10.04	-0-00-04.46	-0.0037
8.50	0.5	2:37				
		102	103	88-58-17.43	0-00-01.93	0.0021
6.40	0.3	2:38				
		103	102	91-01-53.58	-0-00-01.92	-0.0021
6.40	0.3	2:39				
		103	104	90-14-25.25	0-00-00.25	0.0001
14.07	0.0	2:40				
		103	102	91-01-53.58	-0-00-02.92	-0.0032
6.40	0.5	2:41				
		103	104	90-14-25.25	-0-00-00.25	-0.0001
14.07	0.0	2:42				
		103	102	91-01-53.58	-0-00-02.42	-0.0027
6.40	0.4	2:43				
		103	105	89-34-07.77	0-00-05.77	0.0068
5.95	1.0	2:44				
		103	102	91-01-53.58	-0-00-01.42	-0.0016
6.40	0.2	2:45				
		103	105	89-34-07.77	0-00-06.27	0.0074
5.95	1.1	2:46				
		105	103	90-25-37.46	0-00-01.46	0.0017
5.95	0.2	2:47				
		105	106	90-32-18.90	-0-00-00.10	-0.0001
6.61	0.0	2:48				
		105	103	90-25-37.46	-0-00-01.54	-0.0018
5.95	0.3	2:49				
		105	106	90-32-18.90	0-00-01.90	0.0020
6.61	0.3	2:50				
		106	105	89-27-42.97	-0-00-07.53	-0.0080
6.61	1.1	2:51				
		106	107	90-24-57.36	0-00-03.36	0.0049
4.92	0.7	2:52				
		106	105	89-27-42.97	-0-00-04.03	-0.0043
6.61	0.6	2:53				
		106	107	90-24-57.36	-0-00-00.14	-0.0002
4.92	0.0	2:54				
		107	106	89-35-12.09	-0-00-04.41	-0.0064
4.92	0.9	2:55				
		107	108	89-55-00.76	0-00-04.26	0.0055
5.52	0.8	2:56				
		107	106	89-35-12.09	-0-00-02.41	-0.0035
4.92	0.5	2:57				
		2:58				

5.52	1.0	107	108	89-55-00.76	0-00-05.26	0.0067
		2:59				
		108	107	90-05-05.38	-0-00-00.12	-0.0001
5.52	0.0	2:60				
		108	109	88-43-40.99	0-00-02.49	0.0028
6.37	0.4	2:61				
		108	107	90-05-05.38	-0-00-01.62	-0.0021
5.52	0.3	2:62				
		108	109	88-43-40.99	0-00-03.49	0.0039
6.37	0.5	2:63				
		109	108	91-16-29.99	-0-00-04.01	-0.0044
6.37	0.6	2:64				
		109	110	89-14-07.74	0-00-04.74	0.0057
5.86	0.8	2:65				
		109	108	91-16-29.99	-0-00-03.01	-0.0033
6.37	0.5	2:66				
		109	110	89-14-07.74	0-00-04.74	0.0057
5.86	0.8	2:67				
		110	109	90-45-58.51	-0-00-00.99	-0.0012
5.86	0.2	2:68				
		110	111	89-36-56.20	0-00-05.70	0.0070
5.73	1.0	2:69				
		110	109	90-45-58.51	-0-00-01.49	-0.0018
5.86	0.3	2:70				
		110	111	89-36-56.20	0-00-05.70	0.0070
5.73	1.0	2:71				
		111	110	90-23-18.11	0-00-00.11	0.0001
5.73	0.0	2:72				
		111	112	88-28-22.89	0-00-06.89	0.0123
4.04	1.7	2:73				
		111	110	90-23-18.11	-0-00-00.39	-0.0005
5.73	0.1	2:74				
		111	112	88-28-22.89	0-00-04.89	0.0087
4.04	1.2	2:75				
		112	111	91-31-26.18	0-00-02.68	0.0048
4.04	0.7	2:76				
		112	113	88-56-08.28	0-00-07.28	0.0106
4.87	1.5	2:77				
		112	111	91-31-26.18	0-00-00.68	0.0012
4.04	0.2	2:78				
		112	113	88-56-08.28	0-00-04.28	0.0062
4.87	0.9	2:79				
		113	112	91-04-18.26	0-00-00.26	0.0004
4.87	0.1	2:80				
		113	114	91-03-02.13	0-00-03.63	0.0044
5.83	0.6	2:81				
		113	112	91-04-18.26	0-00-01.26	0.0018
4.87	0.3	2:82				
		113	114	91-03-02.13	0-00-02.13	0.0026
5.83	0.4	2:83				
		114	113	88-56-59.99	-0-00-02.51	-0.0030
5.83	0.4	2:84				
		114	115	91-06-04.27	0-00-06.77	0.0069
6.94	1.0	2:85				
		114	113	88-56-59.99	-0-00-03.51	-0.0043
5.83	0.6	2:86				
		114	115	91-06-04.27	0-00-06.77	0.0069
6.94	1.0	2:87				

6.94	0.0	115	114	88-54-12.30	0-00-00.30	0.0003
		2:88				
		115	116	90-58-05.18	0-00-03.68	0.0035
7.41	0.5	2:89				
		115	114	88-54-12.30	-0-00-00.70	-0.0007
6.94	0.1	2:90				
		115	116	90-58-05.18	0-00-03.68	0.0035
7.41	0.5	2:91				
		116	115	89-01-56.48	-0-00-03.02	-0.0029
7.41	0.4	2:92				
		116	117	90-37-25.03	0-00-04.03	0.0046
6.20	0.6	2:93				
		116	115	89-01-56.48	-0-00-04.52	-0.0043
7.41	0.6	2:94				
		116	117	90-37-25.03	0-00-03.03	0.0034
6.20	0.5	2:95				
		117	116	89-22-45.76	-0-00-02.74	-0.0031
6.20	0.4	2:96				
		117	118	90-54-55.71	0-00-06.21	0.0070
6.26	1.0	2:97				
		117	116	89-22-45.76	-0-00-02.74	-0.0031
6.20	0.4	2:98				
		117	118	90-54-55.71	0-00-05.21	0.0059
6.26	0.8	2:99				
		118	117	89-05-15.14	-0-00-00.36	-0.0004
6.26	0.1	2:100				
		118	119	90-07-30.81	0-00-06.31	0.0042
10.45	0.6	2:101				
		118	117	89-05-15.14	-0-00-00.86	-0.0010
6.26	0.1	2:102				
		118	119	90-07-30.81	0-00-07.81	0.0052
10.45	0.7	2:103				
		119	118	89-52-45.31	-0-00-02.69	-0.0018
10.45	0.3	2:104				
		119	120	89-52-06.00	0-00-03.00	0.0027
7.86	0.4	2:105				
		119	118	89-52-45.31	-0-00-04.19	-0.0028
10.45	0.4	2:106				
		119	120	89-52-06.00	0-00-03.00	0.0027
7.86	0.4	2:107				
		120	119	90-07-55.56	-0-00-04.94	-0.0044
7.86	0.6	2:108				
		120	121	89-38-16.42	0-00-02.42	0.0021
8.07	0.3	2:109				
		120	119	90-07-55.56	-0-00-04.94	-0.0044
7.86	0.6	2:110				
		120	121	89-38-16.42	0-00-02.42	0.0021
8.07	0.3	2:111				
		121	120	90-19-50.01	-0-00-06.99	-0.0061
8.07	0.9	2:112				
		121	122	89-49-31.14	0-00-07.14	0.0062
8.13	0.9	2:113				
		121	120	90-19-50.01	-0-00-04.49	-0.0039
8.07	0.6	2:114				
		121	122	89-49-31.14	0-00-06.64	0.0057
8.13	0.8	2:115				
		122	121	90-10-36.17	0-00-00.17	0.0001
8.13	0.0	2:116				



		122	123	90-11-02.32	0-00-08.32	0.0076
7.72	1.1	2:117				
		122	121	90-10-36.17	-0-00-02.83	-0.0024
8.13	0.3	2:118				
		122	123	90-11-02.32	0-00-08.82	0.0080
7.72	1.1	2:119				
		123	122	89-49-15.78	0-00-00.28	0.0003
7.72	0.0	2:120				
		123	124	90-44-17.76	0-00-04.26	0.0052
5.74	0.7	2:121				
		123	122	89-49-15.78	0-00-01.28	0.0012
7.72	0.2	2:122				
		123	124	90-44-17.76	0-00-04.26	0.0052
5.74	0.7	2:123				
		124	123	89-15-48.45	-0-00-01.55	-0.0019
5.74	0.3	2:124				
		124	125	89-50-29.06	0-00-02.56	0.0034
5.26	0.5	2:125				
		124	123	89-15-48.45	-0-00-01.55	-0.0019
5.74	0.3	2:126				
		124	125	89-50-29.06	0-00-03.06	0.0041
5.26	0.6	2:127				
		125	124	90-09-44.44	-0-00-02.06	-0.0028
5.26	0.4	2:128				
		125	126	90-33-15.15	0-00-05.65	0.0048
8.17	0.7	2:129				
		125	124	90-09-44.44	-0-00-03.06	-0.0041
5.26	0.6	2:130				
		125	126	90-33-15.15	0-00-05.15	0.0044
8.17	0.6	2:131				
		126	125	89-26-52.18	-0-00-02.82	-0.0024
8.17	0.3	2:132				
		126	127	90-12-21.84	0-00-00.84	0.0008
7.59	0.1	2:133				
		126	125	89-26-52.18	-0-00-02.82	-0.0024
8.17	0.3	2:134				
		126	127	90-12-21.84	0-00-02.84	0.0026
7.59	0.4	2:135				
		127	126	89-47-45.18	-0-00-05.82	-0.0054
7.59	0.8	2:136				
		127	128	90-20-30.38	0-00-00.88	0.0009
6.57	0.1	2:137				
		127	126	89-47-45.18	-0-00-05.82	-0.0054
7.59	0.8	2:138				
		127	128	90-20-30.38	0-00-02.88	0.0031
6.57	0.4	2:139				
		128	127	89-39-31.49	-0-00-05.01	-0.0054
6.57	0.8	2:140				
		128	129	90-03-24.61	0-00-06.11	0.0052
8.16	0.7	2:141				
		128	127	89-39-31.49	-0-00-04.51	-0.0048
6.57	0.7	2:142				
		128	129	90-03-24.61	0-00-02.61	0.0022
8.16	0.3	2:143				
		129	128	89-56-54.42	-0-00-05.58	-0.0048
8.16	0.7	2:144				
		129	130	89-03-02.90	-0-00-36.10	-0.0605
4.27	8.4*	2:145				

8.16	0.3	129	128	89-56-54.42	-0-00-02.08	-0.0018
		129	130	89-03-02.90	-0-00-42.60	-0.0713
4.27	10.0*	2:146				
		130	129	90-58-11.69	0-00-11.69	0.0196
4.27	2.7	2:147				
		130	131	87-59-56.82	0-00-21.32	0.0303
4.99	4.3*	2:148				
		130	129	90-58-11.69	0-00-11.69	0.0196
4.27	2.7	2:149				
		130	131	87-59-56.82	0-00-17.82	0.0253
4.99	3.6*	2:150				
		131	130	92-00-44.32	0-00-16.32	0.0232
4.99	3.3*	2:151				
		131	132	90-22-35.73	0-00-06.73	0.0061
7.68	0.9	2:152				
		131	130	92-00-44.32	0-00-14.32	0.0204
4.99	2.9	2:153				
		131	132	90-22-35.73	0-00-05.73	0.0052
7.68	0.7	2:154				
		132	131	89-37-42.28	-0-00-00.72	-0.0007
7.68	0.1	2:155				
		132	133	91-09-46.82	0-00-02.82	0.0028
7.01	0.4	2:156				
		132	131	89-37-42.28	0-00-00.28	0.0003
7.68	0.0	2:157				
		132	133	91-09-46.82	0-00-04.82	0.0048
7.01	0.7	2:158				
		133	132	88-50-19.92	-0-00-02.08	-0.0021
7.01	0.3	2:159				
		133	134	90-22-22.95	0-00-01.45	0.0017
6.04	0.2	2:160				
		133	132	88-50-19.92	-0-00-02.08	-0.0021
7.01	0.3	2:161				
		133	134	90-22-22.95	0-00-01.95	0.0023
6.04	0.3	2:162				
		134	133	89-37-39.10	-0-00-04.90	-0.0057
6.04	0.8	2:163				
		134	135	89-08-04.45	0-00-05.95	0.0095
4.45	1.3	2:164				
		134	133	89-37-39.10	-0-00-01.90	-0.0022
6.04	0.3	2:165				
		134	135	89-08-04.45	0-00-03.45	0.0055
4.45	0.8	2:166				
		135	134	90-49-31.89	0-00-02.89	0.0046
4.45	0.7	2:167				
		135	136	88-39-09.94	0-00-08.44	0.0112
5.34	1.6	2:168				
		135	134	90-49-31.89	-0-00-01.11	-0.0018
4.45	0.2	2:169				
		135	136	88-39-09.94	0-00-03.44	0.0046
5.34	0.6	2:170				
		136	135	91-20-59.92	0-00-00.92	0.0012
5.34	0.2	2:171				
		136	137	91-53-53.32	0-00-01.32	0.0014
6.43	0.2	2:172				
		136	135	91-20-59.92	0-00-01.92	0.0025
5.34	0.4	2:173				
		2:174				

		136	137	91-53-53.32	0-00-01.82	0.0020
6.43	0.3	2:175				
		137	136	88-06-13.16	-0-00-01.84	-0.0020
6.43	0.3	2:176				
		137	138	90-36-20.17	0-00-02.67	0.0034
5.55	0.5	2:177				
		137	136	88-06-13.16	-0-00-05.84	-0.0064
6.43	0.9	2:178				
		137	138	90-36-20.17	0-00-03.17	0.0040
5.55	0.6	2:179				
		138	137	89-23-45.99	-0-00-01.51	-0.0019
5.55	0.3	2:180				
		138	139	88-37-44.37	-0-00-01.13	-0.0014
5.76	0.2	2:181				
		138	137	89-23-45.99	0-00-00.49	0.0006
5.55	0.1	2:182				
		138	139	88-37-44.37	0-00-01.87	0.0023
5.76	0.3	2:183				
		138	137	89-23-45.99	-0-00-01.51	-0.0019
5.55	0.3	2:184				
		138	139	88-37-44.37	0-00-02.87	0.0035
5.76	0.5	2:185				
		138	137	89-23-45.99	-0-00-01.01	-0.0013
5.55	0.2	2:186				
		138	139	88-37-44.37	0-00-01.37	0.0017
5.76	0.2	2:187				
		139	138	91-17-20.12	-0-00-02.88	-0.0035
5.76	0.5	2:188				
		139	140	87-16-34.40	0-00-04.40	0.0049
6.35	0.7	2:189				
		139	138	91-17-20.12	-0-00-01.88	-0.0023
5.76	0.3	2:190				
		139	140	87-16-34.40	0-00-04.40	0.0049
6.35	0.7	2:191				
		140	139	92-43-32.05	-0-00-01.45	-0.0016
6.35	0.2	2:192				
		140	141	87-34-15.41	0-00-04.91	0.0062
5.58	0.9	2:193				
		140	139	92-43-32.05	-0-00-00.45	-0.0005
6.35	0.1	2:194				
		140	141	87-34-15.41	0-00-04.41	0.0056
5.58	0.8	2:195				
		141	140	92-25-54.69	0-00-00.19	0.0002
5.58	0.0	2:196				
		141	142	88-48-04.65	0-00-06.65	0.0053
8.81	0.8	2:197				
		141	140	92-25-54.69	-0-00-00.31	-0.0004
5.58	0.1	2:198				
		141	142	88-48-04.65	0-00-06.15	0.0049
8.81	0.7	2:199				
		142	141	91-12-03.02	-0-00-00.48	-0.0004
8.81	0.1	2:200				
		142	143	89-49-10.69	0-00-10.19	0.0071
10.00	1.0	2:201				
		142	141	91-12-03.02	-0-00-01.48	-0.0012
8.81	0.2	2:202				
		142	143	89-49-10.69	0-00-10.19	0.0071
10.00	1.0	2:203				

		143	142	90-11-04.83	0-00-01.83	0.0013
10.00	0.2	2:204				
		143	144	90-51-55.52	0-00-04.02	0.0071
4.05	1.0	2:205				
		143	142	90-11-04.83	0-00-01.83	0.0013
10.00	0.2	2:206				
		143	144	90-51-55.52	0-00-06.02	0.0107
4.05	1.5	2:207				
		144	143	89-08-16.04	0-00-02.54	0.0045
4.05	0.6	2:208				
		144	145	92-36-15.86	0-00-04.86	0.0055
6.19	0.8	2:209				
		144	143	89-08-16.04	0-00-00.54	0.0010
4.05	0.1	2:210				
		144	145	92-36-15.86	0-00-05.36	0.0061
6.19	0.9	2:211				
		145	144	87-23-54.90	0-00-00.40	0.0005
6.19	0.1	2:212				
		145	146	90-48-53.92	0-00-05.92	0.0063
6.62	0.9	2:213				
		145	144	87-23-54.90	-0-00-00.60	-0.0007
6.19	0.1	2:214				
		145	146	90-48-53.92	0-00-06.92	0.0074
6.62	1.0	2:215				
		146	145	89-11-17.35	0-00-00.85	0.0009
6.62	0.1	2:216				
		146	147	90-40-38.86	0-00-04.36	0.0074
4.25	1.0	2:217				
		146	145	89-11-17.35	0-00-00.85	0.0009
6.62	0.1	2:218				
		146	147	90-40-38.86	0-00-03.86	0.0065
4.25	0.9	2:219				
		147	146	89-19-32.99	-0-00-00.51	-0.0009
4.25	0.1	2:220				
		147	148	90-01-45.67	0-00-02.67	0.0049
3.90	0.7	2:221				
		147	146	89-19-32.99	-0-00-00.01	-0.0000
4.25	0.0	2:222				
		147	148	90-01-45.67	0-00-02.67	0.0049
3.90	0.7	2:223				
		147	146	89-19-32.99	0-00-01.49	0.0025
4.25	0.4	2:224				
		147	148	90-01-45.67	0-00-00.67	0.0012
3.90	0.2	2:225				
		147	146	89-19-32.99	-0-00-00.01	-0.0000
4.25	0.0	2:226				
		147	148	90-01-45.67	0-00-02.67	0.0049
3.90	0.7	2:227				
		148	147	89-58-22.98	0-00-00.48	0.0009
3.90	0.1	2:228				
		148	149	90-13-18.49	0-00-01.99	0.0040
3.60	0.6	2:229				
		148	147	89-58-22.98	0-00-01.48	0.0027
3.90	0.4	2:230				
		148	149	90-13-18.49	0-00-02.99	0.0060
3.60	0.8	2:231				
		149	148	89-47-07.38	-0-00-00.62	-0.0013
3.60	0.2	2:232				

5.95	0.6	149	150	90-24-48.28	0-00-03.78	0.0045
		2:233				
3.60	0.2	149	148	89-47-07.38	-0-00-00.62	-0.0013
		2:234				
5.95	0.6	149	150	90-24-48.28	0-00-03.28	0.0039
		2:235				
5.95	0.3	150	149	89-35-18.01	-0-00-01.49	-0.0018
		2:236				
5.15	0.4	150	151	89-57-16.52	0-00-02.02	0.0028
		2:237				
5.95	0.3	150	149	89-35-18.01	-0-00-01.49	-0.0018
		2:238				
5.15	0.3	150	151	89-57-16.52	0-00-01.52	0.0021
		2:239				
5.15	0.6	151	150	90-02-53.15	-0-00-02.85	-0.0039
		2:240				
4.59	0.6	151	152	89-33-30.05	0-00-02.55	0.0040
		2:241				
5.15	0.5	151	150	90-02-53.15	-0-00-02.35	-0.0032
		2:242				
4.59	0.6	151	152	89-33-30.05	0-00-02.55	0.0040
		2:243				
4.59	0.5	152	151	90-26-35.89	-0-00-02.11	-0.0033
		2:244				
7.26	0.9	152	153	88-57-37.14	0-00-06.64	0.0064
		2:245				
4.59	0.1	152	151	90-26-35.89	-0-00-00.61	-0.0010
		2:246				
7.26	0.8	152	153	88-57-37.14	0-00-06.14	0.0059
		2:247				
7.26	0.2	153	152	91-02-40.04	0-00-01.54	0.0015
		2:248				
6.60	0.5	153	154	88-53-25.05	0-00-03.05	0.0033
		2:249				
7.26	0.1	153	152	91-02-40.04	-0-00-00.96	-0.0009
		2:250				
6.60	0.5	153	154	88-53-25.05	0-00-03.55	0.0038
		2:251				
6.60	0.3	154	153	91-06-41.50	-0-00-02.00	-0.0021
		2:252				
5.92	0.3	154	155	90-41-47.95	0-00-01.95	0.0023
		2:253				
6.60	0.4	154	153	91-06-41.50	-0-00-02.50	-0.0027
		2:254				
5.92	0.5	154	155	90-41-47.95	0-00-02.95	0.0035
		2:255				
5.92	0.3	155	154	89-18-26.71	-0-00-01.79	-0.0021
		2:256				
6.01	1.1	155	156	90-26-44.07	0-00-06.57	0.0077
		2:257				
5.92	0.6	155	154	89-18-26.71	-0-00-03.29	-0.0039
		2:258				
6.01	1.1	155	156	90-26-44.07	0-00-06.57	0.0077
		2:259				
6.01	0.5	156	155	89-33-22.25	0-00-03.25	0.0038
		2:260				
8.93	0.7	156	157	89-13-49.68	0-00-06.18	0.0048
		2:261				

6.01	0.0	156	2:262	155	89-33-22.25	-0-00-00.25	-0.0003
8.93	0.6	156	2:263	157	89-13-49.68	0-00-05.68	0.0045
8.93	0.3	157	2:264	156	90-46-24.45	-0-00-02.55	-0.0020
4.47	2.4	157	2:265	158	89-40-12.11	0-00-10.61	0.0170
8.93	0.1	157	2:266	156	90-46-24.45	-0-00-00.55	-0.0004
4.47	2.2	157	2:267	158	89-40-12.11	0-00-09.61	0.0154

Adjusted Azimuths (DMS) and Horizontal Distances (FeetUS)

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(Relative Confidence of Azimuth is in Seconds)

From	To	Azimuth	Distance	95% RelConfidence		PPM
				Azi	Dist	
100 0.0038	101	128-57-28.37	299.5711	0.00	0.0000	
101 59.4775	102	142-42-56.61	170.0725	12.20	0.0101	
101 231.0534	500	160-26-01.87	86.6442	31.28	0.0200	
101 227.6305	501	159-46-30.37	87.9707	30.90	0.0200	
101 175.6334	502	263-39-51.87	114.6281	19.30	0.0201	
102 36.8584	103	127-38-12.33	227.1035	15.87	0.0084	
103 138.8526	104	139-04-17.58	102.2670	26.19	0.0142	
103 41.9313	105	140-14-01.72	244.7896	16.66	0.0103	
105 46.5239	106	142-20-52.50	219.5465	16.61	0.0102	
106 34.8278	107	147-19-52.49	297.8343	16.05	0.0104	
107 38.9961	108	146-41-38.13	264.2588	15.54	0.0103	
108 44.8510	109	144-28-51.44	228.1364	14.87	0.0102	
109 41.3088	110	143-34-16.61	248.6853	14.08	0.0103	
110 40.4060	111	144-07-28.94	254.5340	13.45	0.0103	
111 28.6416	112	143-38-41.93	367.0075	13.21	0.0105	
112 34.4891	113	138-19-33.16	300.8798	13.45	0.0104	
113 41.0979	114	137-06-51.85	250.0076	14.16	0.0103	
114 48.7738	115	137-45-23.50	208.9777	15.40	0.0102	
115 52.0184	116	143-43-51.04	195.4384	16.93	0.0102	
116 43.7020	117	154-30-03.49	234.5316	18.26	0.0102	
117 44.1186	118	151-20-17.53	232.1688	19.45	0.0102	
118 72.8397	119	141-57-38.91	137.9925	21.18	0.0101	
119 55.0735	120	135-48-05.87	184.1697	21.58	0.0101	
120 56.5616	121	123-26-54.33	179.2097	20.88	0.0101	
121 56.9891	122	121-37-46.21	177.8337	19.45	0.0101	
122 54.1678	123	122-06-43.10	187.4457	17.48	0.0102	

123	124	122-30-56.01	254.0284	15.77	0.0103
40.4947					
124	125	99-30-11.97	277.8998	14.87	0.0104
37.2621					
125	126	98-10-24.76	176.9284	14.88	0.0102
57.3846					
126	127	96-31-39.09	190.9007	14.87	0.0102
53.3407					
127	128	111-52-50.65	221.0458	14.12	0.0102
46.2714					
128	129	87-17-57.98	176.5050	10.95	0.0102
57.5837					
129	130	102-01-13.76	345.3351	0.00	0.0000
0.0033					
130	131	108-33-55.93	293.1610	8.57	0.0104
35.4229					
131	132	118-26-42.69	188.4876	12.90	0.0102
53.9367					
132	133	118-12-54.37	206.7287	14.55	0.0102
49.3562					
133	134	118-11-50.68	240.9596	14.15	0.0103
42.6294					
134	135	118-47-09.74	330.8782	13.51	0.0105
31.5931					
135	136	127-16-18.78	273.5790	13.17	0.0103
37.7744					
136	137	103-13-49.81	225.8666	12.72	0.0103
45.3934					
137	138	109-20-56.77	262.8511	12.82	0.0084
32.1105					
138	139	108-23-01.85	252.7938	13.23	0.0084
33.3246					
139	140	116-36-04.88	228.5571	14.78	0.0102
44.8433					
140	141	131-58-40.53	261.2846	16.18	0.0103
39.4563					
141	142	136-11-24.84	164.0317	17.55	0.0101
61.6539					
142	143	138-48-48.17	144.3188	17.25	0.0101
69.8018					
143	144	141-31-26.53	365.7466	15.52	0.0105
28.7632					
144	145	142-01-57.88	234.6452	14.57	0.0103
43.7101					
145	146	152-32-14.70	219.2412	12.91	0.0102
46.6527					
146	147	142-06-45.79	347.3664	11.63	0.0086
24.6861					
147	148	134-47-30.54	380.3192	11.42	0.0086
22.6904					
148	149	133-29-15.90	415.4535	11.34	0.0106
25.5635					
149	150	149-59-13.21	244.7569	11.54	0.0103
41.9934					
150	151	158-25-53.80	283.9696	12.05	0.0104
36.4905					
151	152	150-04-03.41	320.5798	12.81	0.0104
32.5390					



152 51.0365	153	152-45-55.33	199.6421	14.17	0.0102
153 46.4836	154	153-06-54.13	220.0841	15.27	0.0102
154 41.7799	155	144-12-17.29	246.0186	15.45	0.0103
155 42.4376	156	160-05-39.45	242.2165	14.84	0.0103
156 62.5401	157	133-23-44.85	161.6281	11.54	0.0101
157 0.0034	158	186-44-27.40	329.6972	0.00	0.0000

Error Propagation  
=====

Station Coordinate Standard Deviations (FeetUS)

Station	N	E	Elev
100	0.000000	0.000000	0.000000
101	0.000000	0.000000	0.000000
102	0.004150	0.004093	0.003439
103	0.008428	0.007635	0.004391
104	0.011517	0.010893	0.006604
105	0.012896	0.012585	0.005452
106	0.016460	0.016848	0.006260
107	0.020347	0.022542	0.006919
108	0.023614	0.027201	0.007452
109	0.026053	0.030210	0.007886
110	0.028036	0.032327	0.008243
111	0.029448	0.033520	0.008530
112	0.031087	0.034773	0.008761
113	0.032618	0.035595	0.008927
114	0.033620	0.035639	0.009035
115	0.033890	0.034720	0.009091
116	0.033492	0.032581	0.009095
117	0.032780	0.028869	0.009048
118	0.031824	0.025409	0.008950
119	0.030926	0.023167	0.008800
120	0.029066	0.020104	0.008593
121	0.026994	0.017739	0.008328
122	0.024942	0.015463	0.007996
123	0.022512	0.013060	0.007589
124	0.018935	0.010397	0.007088
125	0.014926	0.008998	0.006472
126	0.012278	0.007719	0.005726
127	0.008410	0.006231	0.004770
128	0.003834	0.004147	0.003425
129	0.000000	0.000000	0.000000
130	0.000000	0.000000	0.000000
131	0.004876	0.004356	0.003481
132	0.007988	0.006523	0.004796
133	0.011328	0.008814	0.005741
134	0.014937	0.011322	0.006484
135	0.019799	0.014607	0.007095
136	0.023045	0.017849	0.007584
137	0.025186	0.019110	0.007978
138	0.026502	0.020156	0.008199
139	0.028197	0.021162	0.008389
140	0.029253	0.022383	0.008617
141	0.030296	0.024289	0.008787
142	0.030580	0.025731	0.008896
143	0.030080	0.026428	0.008953
144	0.029081	0.027551	0.008956
145	0.028451	0.028702	0.008903
146	0.027332	0.028787	0.008797
147	0.024838	0.027693	0.008691
148	0.022352	0.027202	0.008555
149	0.020122	0.026803	0.008291
150	0.018850	0.025928	0.007971
151	0.017218	0.023466	0.007569

152	0.014797	0.020442	0.007069
153	0.012896	0.017840	0.006474
154	0.010315	0.013704	0.005733
155	0.006753	0.008831	0.004776
156	0.003951	0.003886	0.003433
157	0.000000	0.000000	0.000000
158	0.000000	0.000000	0.000000
500	0.007913	0.005752	0.006972
501	0.007899	0.005790	0.006972
502	0.004448	0.008189	0.006982

Station Coordinate Error Ellipses (FeetUS)  
Confidence Region = 95%

Station	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Elev
100	0.000000	0.000000	0-00	
0.000000				
101	0.000000	0.000000	0-00	
0.000000				
102	0.010160	0.010018	176-44	
0.006740				
103	0.024619	0.012989	39-59	
0.008606				
104	0.033710	0.019215	41-52	
0.012945				
105	0.040946	0.016393	44-02	
0.010686				
106	0.054399	0.019096	45-51	
0.012269				
107	0.071151	0.021509	48-31	
0.013560				
108	0.084960	0.023573	49-43	
0.014605				
109	0.094312	0.025301	49-53	
0.015456				
110	0.101254	0.026801	49-41	
0.016155				
111	0.105547	0.028068	49-16	
0.016718				
112	0.110385	0.029150	48-41	
0.017171				
113	0.114244	0.030232	47-53	
0.017496				
114	0.115803	0.031177	46-56	
0.017709				
115	0.114404	0.031869	45-49	
0.017817				
116	0.109873	0.031758	44-04	
0.017826				
117	0.102633	0.029960	40-41	
0.017735				
118	0.095483	0.028618	37-19	
0.017541				
119	0.090358	0.027958	35-03	
0.017247				
120	0.082207	0.026933	32-01	
0.016843				

121	0.074647	0.026059	29-46
0.016322			
122	0.067382	0.024894	27-05
0.015672			
123	0.059276	0.023336	23-38
0.014875			
124	0.048322	0.021468	18-24
0.013892			
125	0.037962	0.019465	18-26
0.012684			
126	0.031112	0.017097	18-02
0.011223			
127	0.021401	0.014085	21-18
0.009348			
128	0.010186	0.009346	77-50
0.006712			
129	0.000000	0.000000	0-00
0.000000			
130	0.000000	0.000000	0-00
0.000000			
131	0.012188	0.010375	22-40
0.006823			
132	0.020710	0.014434	27-23
0.009399			
133	0.030458	0.017511	30-22
0.011253			
134	0.041289	0.019999	32-05
0.012708			
135	0.056024	0.022101	33-05
0.013906			
136	0.067182	0.024026	35-34
0.014864			
137	0.073336	0.024708	35-07
0.015636			
138	0.077558	0.025042	35-23
0.016070			
139	0.082388	0.025671	35-05
0.016442			
140	0.086177	0.026500	35-47
0.016890			
141	0.091082	0.027169	37-28
0.017221			
142	0.093805	0.027757	39-07
0.017437			
143	0.093855	0.028233	40-34
0.017547			
144	0.093562	0.029349	43-07
0.017553			
145	0.094357	0.029703	45-18
0.017450			
146	0.092286	0.030396	46-51
0.017242			
147	0.085836	0.030383	49-00
0.017033			
148	0.081187	0.028900	52-15
0.016767			
149	0.077605	0.026602	55-21
0.016250			

150	0.074287	0.025267	56-27
0.015622			
151	0.067128	0.023860	56-23
0.014835			
152	0.057732	0.021967	57-22
0.013856			
153	0.050093	0.019848	57-45
0.012689			
154	0.038244	0.017324	57-24
0.011237			
155	0.023276	0.014097	62-14
0.009360			
156	0.010119	0.009033	139-12
0.006728			
157	0.000000	0.000000	0-00
0.000000			
158	0.000000	0.000000	0-00
0.000000			
500	0.020019	0.013139	160-26
0.013665			
501	0.020025	0.013180	159-47
0.013666			
502	0.020133	0.010724	83-40
0.013684			

Relative Error Ellipses (FeetUS)  
Confidence Region = 95%

Stations		Semi-Major	Semi-Minor	Azimuth of
Vertical				
From	To	Axis	Axis	Major Axis
100	101	0.000000	0.000000	0-00
0.000000				
101	102	0.010160	0.010018	176-44
0.006740				
101	500	0.020019	0.013139	160-26
0.013665				
101	501	0.020025	0.013180	159-47
0.013666				
101	502	0.020133	0.010724	83-40
0.013684				
102	103	0.017470	0.008369	36-57
0.005567				
103	104	0.014200	0.012986	139-04
0.009670				
103	105	0.019771	0.010258	49-00
0.006787				
105	106	0.017688	0.010203	50-27
0.006769				
106	107	0.023180	0.010360	55-54
0.006832				
107	108	0.019914	0.010288	54-42
0.006803				
108	109	0.016462	0.010207	51-19
0.006775				
109	110	0.016995	0.010245	50-21
0.006790				

110 0.006795	111	0.016618	0.010254	50-40
111 0.006901	112	0.023514	0.010487	51-42
112 0.006834	113	0.019627	0.010351	45-49
113 0.006791	114	0.017181	0.010253	44-20
114 0.006762	115	0.015616	0.010178	45-06
115 0.006754	116	0.016050	0.010160	52-07
116 0.006780	117	0.020763	0.010249	64-04
117 0.006778	118	0.021898	0.010243	61-13
118 0.006724	119	0.014168	0.010050	53-00
119 0.006747	120	0.019277	0.010134	47-15
120 0.006745	121	0.018147	0.010119	35-43
121 0.006744	122	0.016789	0.010097	35-22
122 0.006749	123	0.015927	0.010081	37-44
123 0.006794	124	0.019473	0.010197	37-13
124 0.006814	125	0.020059	0.010294	13-15
125 0.006743	126	0.012842	0.010057	18-13
126 0.006751	127	0.013798	0.010130	12-51
127 0.006770	128	0.015163	0.010187	26-34
128 0.006712	129	0.010186	0.009346	77-50
129 0.000000	130	0.000000	0.000000	0-00
130 0.006823	131	0.012188	0.010375	22-40
131 0.006746	132	0.011815	0.010135	36-02
132 0.006757	133	0.014612	0.010168	32-53
133 0.006780	134	0.016562	0.010221	32-43
134 0.006859	135	0.021693	0.010395	32-07
135 0.006806	136	0.017516	0.010247	42-40
136 0.006769	137	0.013992	0.010172	20-55
137 0.005587	138	0.016356	0.008408	22-21
138 0.005581	139	0.016229	0.008397	21-10

139	140	0.016402	0.010207	30-45
0.006771				
140	141	0.020503	0.010284	44-19
0.006796				
141	142	0.013965	0.010100	49-18
0.006732				
142	143	0.012073	0.010074	49-10
0.006723				
143	144	0.027519	0.010518	51-02
0.006896				
144	145	0.016579	0.010249	50-17
0.006775				
145	146	0.013735	0.010206	58-23
0.006765				
146	147	0.019595	0.008558	50-21
0.005653				
147	148	0.021066	0.008608	42-58
0.005683				
148	149	0.022858	0.010571	40-35
0.006954				
149	150	0.013745	0.010211	52-39
0.006783				
150	151	0.016620	0.010319	64-15
0.006815				
151	152	0.019932	0.010388	56-53
0.006849				
152	153	0.013752	0.010143	56-47
0.006752				
153	154	0.016308	0.010207	59-59
0.006765				
154	155	0.018433	0.010261	51-58
0.006784				
155	156	0.017430	0.010270	68-20
0.006781				
156	157	0.010119	0.009033	139-12
0.006728				
157	158	0.000000	0.000000	0-00
0.000000				

Elapsed Time = 00:00:00

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01 00000001 Top of File  
01 00000005 Summary of Files Used and Option Settings  
02 00000008 Project Folder and Data Files  
02 00000015 Project Option Settings  
02 00000032 Instrument Standard Error Settings  
03 00000034 Project Default Instrument  
01 00000048 Summary of Unadjusted Input Observations  
02 00000051 Entered Stations  
03 00000053 Fixed Coordinates  
02 00000061 Angle Observations  
02 00000186 Distance Observations  
02 00000432 Zenith Observations  
01 00000678 Adjustment Statistical Summary  
01 00000700 Adjusted Coordinates

01 00000767 Adjusted Observations and Residuals  
02 00000770 Adjusted Angle Observations  
02 00000895 Adjusted Distance Observations  
02 00001141 Adjusted Zenith Observations  
01 00001387 Adjusted Azimuths and Horizontal Distances  
01 00001455 Error Propagation  
02 00001458 Station Coordinate Standard Deviations  
02 00001524 Station Coordinate Error Ellipses  
02 00001592 Relative Error Ellipses  
01 00001658 End of File  
0001E6C4  
STAR\*NET  
0003121C