

MicroSurvey STAR\*NET-PLUS Version 8,2,3,4253  
Run Date: Thu Jul 04 2019 17:15:15

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

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

Project Option Settings

STAR\*NET Run Mode : Adjust with Error Propagation  
Type of Adjustment : 2D  
Project Units : FeetUS; DMS  
Coordinate System : LOCAL  
Default Project Elevation : 0.0000 FeetUS  
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  
Centering Error Instrument : 0.001000 FeetUS  
Centering Error Target : 0.001000 FeetUS

Summary of Unadjusted Input Observations

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Number of Entered Stations (FeetUS) = 6

Fixed Stations	N	E	Description
100	3021977.9840	777861.9890	MTRV MAG FND
101	3021789.6290	778094.9380	MTRV SBDH FND
158	3012821.6210	787506.6160	MTRV MAG NAIL FND GPS
POINT2308			
157	3013149.0390	787545.3160	MTRV REBAR FND GPS
POINT2309			
129	3017823.1260	782367.5920	MTRV MAG NAIL FND
DOTGPS2311			
130	3017751.2060	782705.3550	MTRV MAG NAIL FND -
DOTGPS2311			

Number of Angle Observations (DMS) = 121

At	From	To	Angle	StdErr
101	100	102	193-45-38.00	2.55
101	100	102	193-45-35.50	2.55
101	100	500	211-28-33.50	4.01
101	100	501	210-49-02.00	3.96
101	100	502	314-42-23.50	2.58
102	101	103	164-55-24.50	2.78
102	101	103	164-55-26.50	2.78
103	102	104	191-26-07.00	3.79
103	102	104	191-26-03.50	3.79
103	102	105	192-35-55.00	2.36
103	102	105	192-35-57.50	2.36
105	103	106	182-06-55.50	2.40
105	103	106	182-06-59.50	2.40
106	105	107	184-59-04.50	2.24
106	105	107	184-59-06.00	2.24
107	106	108	179-21-48.00	2.06
107	106	108	179-21-50.50	2.06
108	107	109	177-47-16.50	2.29
108	107	109	177-47-18.00	2.29
109	108	110	179-05-29.00	2.35
109	108	110	179-05-28.50	2.35
110	109	111	180-33-15.50	2.24
110	109	111	180-33-14.50	2.24
111	110	112	179-31-18.00	1.96
111	110	112	179-31-11.00	1.96
112	111	113	174-40-55.50	1.83
112	111	113	174-40-48.50	1.83
113	112	114	178-47-19.50	2.11
113	112	114	178-47-19.50	2.11
114	113	115	180-38-32.00	2.44
114	113	115	180-38-33.00	2.44
115	114	116	185-58-27.50	2.69
115	114	116	185-58-29.00	2.69
116	115	117	190-46-12.50	2.57
116	115	117	190-46-12.50	2.57
117	116	118	176-50-13.00	2.38
117	116	118	176-50-13.00	2.38
118	117	119	170-37-15.00	3.11

118	117	119	170-37-20.50	3.11
119	118	120	173-50-22.00	3.36
119	118	120	173-50-22.00	3.36
120	119	121	167-38-44.00	2.95
120	119	121	167-38-45.00	2.95
121	120	122	178-10-46.50	3.00
121	120	122	178-10-50.00	3.00
122	121	123	180-28-54.00	2.94
122	121	123	180-28-54.00	2.94
123	122	124	180-24-10.00	2.55
123	122	124	180-24-12.50	2.55
124	123	125	156-59-15.50	2.13
124	123	125	156-59-15.00	2.13
125	124	126	178-40-13.00	2.56
125	124	126	178-40-14.50	2.56
126	125	127	178-21-16.00	2.93
126	125	127	178-21-19.00	2.93
127	126	128	195-21-14.00	2.65
127	126	128	195-21-17.50	2.65
128	127	129	155-25-14.00	2.72
128	127	129	155-25-12.00	2.72
129	128	130	194-43-25.00	2.40
129	128	130	194-43-18.00	2.40
130	129	131	186-32-43.00	1.88
130	129	131	186-32-43.50	1.88
131	130	132	189-52-47.50	2.43
131	130	132	189-52-50.00	2.43
132	131	133	179-46-14.00	2.75
132	131	133	179-46-14.50	2.75
133	132	134	179-58-58.00	2.48
133	132	134	179-58-58.50	2.48
134	133	135	180-35-21.50	2.08
134	133	135	180-35-19.00	2.08
135	134	136	188-29-12.50	1.96
135	134	136	188-29-07.50	1.96
136	135	137	155-57-33.00	2.25
136	135	137	155-57-31.50	2.25
137	136	138	186-07-08.00	2.31
137	136	138	186-07-08.50	2.31
138	137	139	179-02-06.50	2.20
138	137	139	179-02-02.50	2.20
138	137	139	179-02-07.50	2.20
138	137	139	179-02-06.00	2.20
139	138	140	188-13-04.50	2.33
139	138	140	188-13-04.00	2.33
140	139	141	195-22-37.50	2.29
140	139	141	195-22-36.00	2.29
141	140	142	184-12-46.00	2.72
141	140	142	184-12-45.50	2.72
142	141	143	182-37-25.50	3.44
142	141	143	182-37-25.50	3.44
143	142	144	182-42-40.00	2.71
143	142	144	182-42-39.00	2.71
144	143	145	180-30-33.50	2.04
144	143	145	180-30-30.00	2.04
145	144	146	190-30-16.50	2.44
145	144	146	190-30-18.00	2.44
146	145	147	169-34-32.50	2.14

146	145	147	169-34-30.00	2.14
147	146	148	172-40-46.50	1.71
147	146	148	172-40-43.50	1.71
147	146	148	172-40-42.50	1.71
147	146	148	172-40-46.50	1.71
148	147	149	178-41-45.50	1.62
148	147	149	178-41-45.00	1.62
149	148	150	196-29-57.50	1.93
149	148	150	196-29-56.50	1.93
150	149	151	188-26-41.50	2.16
150	149	151	188-26-38.50	2.16
151	150	152	171-38-09.00	1.95
151	150	152	171-38-09.00	1.95
152	151	153	182-41-50.50	2.30
152	151	153	182-41-51.00	2.30
153	152	154	180-20-57.00	2.61
153	152	154	180-20-57.00	2.61
154	153	155	171-05-21.50	2.39
154	153	155	171-05-21.50	2.39
155	154	156	195-53-22.00	2.29
155	154	156	195-53-19.00	2.29
156	155	157	153-18-02.00	2.76
156	155	157	153-18-03.00	2.76
157	156	158	233-20-39.50	2.45
157	156	158	233-20-41.00	2.45

Number of Distance Observations (FeetUS) = 242

From	To	Distance	StdErr
101	100	299.5773	0.0073
101	102	170.0714	0.0070
101	100	299.5766	0.0073
101	102	170.0729	0.0070
101	100	299.5784	0.0073
101	500	86.6443	0.0069
101	100	299.5778	0.0073
101	501	87.9707	0.0069
101	100	299.5770	0.0073
101	502	114.6281	0.0069
102	101	170.0699	0.0070
102	103	227.1062	0.0072
102	101	170.0696	0.0070
102	103	227.1070	0.0072
103	102	227.1004	0.0072
103	104	102.2676	0.0069
103	102	227.1000	0.0072
103	104	102.2664	0.0069
103	102	227.1007	0.0072
103	105	244.7920	0.0072
103	102	227.1005	0.0072
103	105	244.7915	0.0072
105	103	244.7845	0.0072
105	106	219.5423	0.0071
105	103	244.7841	0.0072
105	106	219.5464	0.0071
106	105	219.5455	0.0071
106	107	297.8347	0.0073
106	105	219.5455	0.0071

106	107	297.8345	0.0073
107	106	297.8302	0.0073
107	108	264.2581	0.0072
107	106	297.8314	0.0073
107	108	264.2583	0.0072
108	107	264.2566	0.0072
108	109	228.1360	0.0072
108	107	264.2560	0.0072
108	109	228.1357	0.0072
109	108	228.1339	0.0072
109	110	248.6832	0.0072
109	108	228.1336	0.0072
109	110	248.6825	0.0072
110	109	248.6846	0.0072
110	111	254.5318	0.0072
110	109	248.6845	0.0072
110	111	254.5318	0.0072
111	110	254.5332	0.0072
111	112	367.0024	0.0074
111	110	254.5328	0.0072
111	112	367.0034	0.0074
112	111	367.0083	0.0074
112	113	300.8758	0.0073
112	111	367.0095	0.0074
112	113	300.8761	0.0073
113	112	300.8802	0.0073
113	114	250.0035	0.0072
113	112	300.8806	0.0073
113	114	250.0035	0.0072
114	113	250.0084	0.0072
114	115	208.9757	0.0071
114	113	250.0083	0.0072
114	115	208.9748	0.0071
115	114	208.9766	0.0071
115	116	195.4370	0.0071
115	114	208.9773	0.0071
115	116	195.4368	0.0071
116	115	195.4370	0.0071
116	117	234.5295	0.0072
116	115	195.4364	0.0071
116	117	234.5293	0.0072
117	116	234.5307	0.0072
117	118	232.1639	0.0072
117	116	234.5307	0.0072
117	118	232.1636	0.0072
118	117	232.1707	0.0072
118	119	137.9918	0.0070
118	117	232.1709	0.0072
118	119	137.9927	0.0070
119	118	137.9894	0.0070
119	120	184.1664	0.0071
119	118	137.9899	0.0070
119	120	184.1670	0.0071
120	119	184.1692	0.0071
120	121	179.2091	0.0071
120	119	184.1698	0.0071
120	121	179.2083	0.0071
121	120	179.2080	0.0071

121	122	177.8334	0.0071
121	120	179.2069	0.0071
121	122	177.8329	0.0071
122	121	177.8316	0.0071
122	123	187.4435	0.0071
122	121	177.8305	0.0071
122	123	187.4438	0.0071
123	122	187.4453	0.0071
123	124	254.0306	0.0072
123	122	187.4438	0.0071
123	124	254.0305	0.0072
124	123	254.0243	0.0072
124	125	277.9009	0.0073
124	123	254.0218	0.0072
124	125	277.8999	0.0073
125	124	277.8962	0.0073
125	126	176.9277	0.0071
125	124	277.8966	0.0073
125	126	176.9269	0.0071
126	125	176.9266	0.0071
126	127	190.8998	0.0071
126	125	176.9270	0.0071
126	127	190.8997	0.0071
127	126	190.8985	0.0071
127	128	221.0438	0.0071
127	126	190.8995	0.0071
127	128	221.0433	0.0071
128	127	221.0456	0.0071
128	129	176.5032	0.0071
128	127	221.0445	0.0071
128	129	176.5036	0.0071
129	128	176.5048	0.0071
129	130	345.3171	0.0074
129	128	176.5040	0.0071
129	130	345.3165	0.0074
130	129	345.3126	0.0074
130	131	293.1584	0.0073
130	129	345.3122	0.0074
130	131	293.1595	0.0073
131	130	293.1630	0.0073
131	132	188.4840	0.0071
131	130	293.1627	0.0073
131	132	188.4853	0.0071
132	131	188.4908	0.0071
132	133	206.7278	0.0071
132	131	188.4901	0.0071
132	133	206.7273	0.0071
133	132	206.7297	0.0071
133	134	240.9586	0.0072
133	132	206.7295	0.0071
133	134	240.9593	0.0072
134	133	240.9606	0.0072
134	135	330.8747	0.0074
134	133	240.9598	0.0072
134	135	330.8749	0.0074
135	134	330.8811	0.0074
135	136	273.5815	0.0072
135	134	330.8819	0.0074

135	136	273.5817	0.0072
136	135	273.5771	0.0072
136	137	225.8638	0.0072
136	135	273.5758	0.0072
136	137	225.8635	0.0072
137	136	225.8695	0.0072
137	138	262.8515	0.0072
137	136	225.8692	0.0072
137	138	262.8509	0.0072
138	137	262.8514	0.0072
138	139	252.7915	0.0072
138	137	262.8519	0.0072
138	139	252.7917	0.0072
138	137	262.8501	0.0072
138	139	252.7920	0.0072
138	137	262.8504	0.0072
138	139	252.7907	0.0072
139	138	252.7985	0.0072
139	140	228.5573	0.0072
139	138	252.7985	0.0072
139	140	228.5574	0.0072
140	139	228.5569	0.0072
140	141	261.2838	0.0072
140	139	228.5566	0.0072
140	141	261.2839	0.0072
141	140	261.2857	0.0072
141	142	164.0362	0.0070
141	140	261.2852	0.0072
141	142	164.0361	0.0070
142	141	164.0274	0.0070
142	143	144.3204	0.0070
142	141	164.0269	0.0070
142	143	144.3212	0.0070
143	142	144.3163	0.0070
143	144	365.7482	0.0074
143	142	144.3166	0.0070
143	144	365.7473	0.0074
144	143	365.7455	0.0074
144	145	234.6433	0.0072
144	143	365.7453	0.0074
144	145	234.6435	0.0072
145	144	234.6469	0.0072
145	146	219.2409	0.0071
145	144	234.6466	0.0072
145	146	219.2412	0.0071
146	145	219.2413	0.0071
146	147	347.3647	0.0074
146	145	219.2411	0.0071
146	147	347.3652	0.0074
147	146	347.3670	0.0074
147	148	380.3198	0.0075
147	146	347.3670	0.0074
147	148	380.3196	0.0075
147	146	347.3670	0.0074
147	148	380.3196	0.0075
147	146	347.3673	0.0074
147	148	380.3200	0.0075
148	147	380.3182	0.0075

148	149	415.4525	0.0075
148	147	380.3180	0.0075
148	149	415.4519	0.0075
149	148	415.4545	0.0075
149	150	244.7598	0.0072
149	148	415.4549	0.0075
149	150	244.7603	0.0072
150	149	244.7536	0.0072
150	151	283.9740	0.0073
150	149	244.7538	0.0072
150	151	283.9746	0.0073
151	150	283.9649	0.0073
151	152	320.5813	0.0073
151	150	283.9648	0.0073
151	152	320.5808	0.0073
152	151	320.5791	0.0073
152	153	199.6436	0.0071
152	151	320.5781	0.0073
152	153	199.6431	0.0071
153	152	199.6405	0.0071
153	154	220.0881	0.0071
153	152	199.6411	0.0071
153	154	220.0882	0.0071
154	153	220.0801	0.0071
154	155	246.0172	0.0072
154	153	220.0799	0.0071
154	155	246.0168	0.0072
155	154	246.0198	0.0072
155	156	242.2181	0.0072
155	154	246.0202	0.0072
155	156	242.2181	0.0072
156	155	242.2147	0.0072
156	157	161.6315	0.0070
156	155	242.2151	0.0072
156	157	161.6316	0.0070
157	156	161.6243	0.0070
157	158	329.6923	0.0074
157	156	161.6248	0.0070
157	158	329.6933	0.0074



Adjustment Statistical Summary

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Iterations = 3  
Number of Stations = 62  
Number of Observations = 363  
Number of Unknowns = 112  
Number of Redundant Obs = 251

Observation	Count	Sum Squares of StdRes	Error Factor
Angles	121	146.910	1.325
Distances	242	87.533	0.723
Total	363	234.443	0.966

The Chi-Square Test at 5.00% Level Passed  
Lower/Upper Bounds (0.913/1.087)

Adjusted Coordinates (FeetUS)

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Station	N	E	Description
100	3021977.9840	777861.9890	MTRV MAG FND
101	3021789.6290	778094.9380	MTRV SBDH FND
102	3021654.3100	778197.9631	MTRV MAG SET
103	3021515.6243	778377.8049	MTRV MAG NAIL SET
104	3021438.3576	778444.8003	MTRV MAG NAIL FND
105	3021327.4585	778534.3832	MTRV MAG NAIL SET
106	3021153.6301	778668.4927	MTRV MAG NAIL SET
107	3020902.9042	778829.2508	MTRV MAG NAIL SET
108	3020682.0431	778974.3518	MTRV MAG NAIL SET
109	3020496.3511	779106.8875	MTRV MAG NAIL SET
110	3020296.2525	779254.5563	MTRV MAG NAIL FND
111	3020089.9977	779403.7129	MTRV MAG NAIL SET
112	3019794.4152	779621.2614	MTRV MAG NAIL FND
113	3019569.6682	779821.3087	MTRV MAG NAIL SET
114	3019386.4774	779991.4444	MTRV MAG NAIL SET
115	3019231.7670	780131.9340	MTRV MAG NAIL SET
116	3019074.1912	780247.5493	MTRV MAG NAIL SET
117	3018862.5013	780348.5117	MTRV MAG NAIL SET
118	3018658.7782	780459.8680	MTRV MAG NAIL SET
119	3018550.0958	780544.9013	MTRV MAG NAIL SET
120	3018418.0610	780673.2997	MTRV MAG NAIL SET
121	3018319.2886	780822.8356	MTRV MAG NAIL SET
122	3018226.0359	780974.2609	MTRV MAG NAIL SET
123	3018126.4041	781133.0384	MTRV MAG NAIL SET
124	3017989.8712	781347.2592	MTRV MAG NAIL SET
125	3017944.0092	781621.3511	MTRV MAG NAIL SET
126	3017918.8672	781796.4863	MTRV MAG NAIL SET
127	3017897.1765	781986.1531	MTRV MAG NAIL SET
128	3017814.8059	782191.2810	MTRV MAG NAIL SET
129	3017823.1260	782367.5920	MTRV MAG NAIL FND
DOTGPS2311			
130	3017751.2060	782705.3550	MTRV MAG NAIL FND -
DOTGPS2311			
131	3017657.8670	782983.2605	MTRV MAG NAIL SET
132	3017568.0872	783148.9932	MTRV MAG NAIL SET
133	3017470.3498	783331.1587	MTRV MAG NAIL FND
134	3017356.4944	783543.5232	MTRV MAG NAIL SET
135	3017197.1644	783833.5139	MTRV MAG NAIL SET
136	3017031.4864	784051.2213	MTRV MAG NAIL SET
137	3016979.7936	784271.0935	MTRV MAG NAIL SET
138	3016892.7062	784519.0988	MTRV MAG NAIL SET
139	3016812.9809	784758.9921	MTRV MAG NAIL SET
140	3016710.6384	784963.3558	MTRV MAG NAIL SET
141	3016535.8802	785157.5965	MTRV MAG NAIL SET
142	3016417.5082	785271.1506	MTRV MAG NAIL SET
143	3016308.8983	785366.1865	MTRV MAG NAIL SET
144	3016022.5660	785593.7487	MTRV MAG NAIL FND
145	3015837.5802	785738.1047	MTRV MAG NAIL FND
146	3015643.0445	785839.2114	MTRV MAG NAIL FND
147	3015368.8950	786052.5318	MTRV MAG NAIL SET
148	3015100.9466	786322.4327	MTRV MAG NAIL SET
149	3014815.0304	786623.8524	MTRV MAG NAIL FND
150	3014603.0919	786746.2781	MTRV MAG NAIL SET
151	3014339.0055	786850.6674	MTRV MAG NAIL SET

152	3014061.1854	787010.6283	MTRV MAG NAIL SET
153	3013883.6751	787101.9908	MTRV MAG NAIL SET
154	3013687.3781	787201.5122	MTRV MAG NAIL SET
155	3013487.8287	787345.4053	MTRV MAG NAIL SET
156	3013260.0833	787427.8729	MTRV MAG NAIL SET
157	3013149.0390	787545.3160	MTRV REBAR FND GPS
POINT2309			
158	3012821.6210	787506.6160	MTRV MAG NAIL FND GPS
POINT2308			
500	3021707.9879	778123.9547	MMON SBDH FND
501	3021707.0823	778125.3500	MMON ECSB FND
502	3021776.9796	777981.0100	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	193-45-29.85	-0-00-08.15	-0.0067
2.55	3.2*	2:26			
101	100	102	193-45-29.85	-0-00-05.65	-0.0047
2.55	2.2	2:28			
101	100	500	211-28-33.50	-0-00-00.00	-0.0000
4.01	0.0	2:30			
101	100	501	210-49-02.00	-0-00-00.00	-0.0000
3.96	0.0	2:32			
101	100	502	314-42-23.50	-0-00-00.00	-0.0000
2.58	0.0	2:34			
102	101	103	164-55-17.68	-0-00-06.82	-0.0075
2.78	2.5	2:36			
102	101	103	164-55-17.68	-0-00-08.82	-0.0097
2.78	3.2*	2:38			
103	102	104	191-26-05.25	-0-00-01.75	-0.0009
3.79	0.5	2:40			
103	102	104	191-26-05.25	0-00-01.75	0.0009
3.79	0.5	2:42			
103	102	105	192-35-50.70	-0-00-04.30	-0.0051
2.36	1.8	2:44			
103	102	105	192-35-50.70	-0-00-06.80	-0.0081
2.36	2.9	2:46			
105	103	106	182-06-52.08	-0-00-03.42	-0.0036
2.40	1.4	2:48			
105	103	106	182-06-52.08	-0-00-07.42	-0.0079
2.40	3.1*	2:50			
106	105	107	184-59-00.83	-0-00-03.67	-0.0053
2.24	1.6	2:52			
106	105	107	184-59-00.83	-0-00-05.17	-0.0075
2.24	2.3	2:54			
107	106	108	179-21-45.92	-0-00-02.08	-0.0027
2.06	1.0	2:56			
107	106	108	179-21-45.92	-0-00-04.58	-0.0059
2.06	2.2	2:58			
108	107	109	177-47-13.58	-0-00-02.92	-0.0032
2.29	1.3	2:60			
108	107	109	177-47-13.58	-0-00-04.42	-0.0049
2.29	1.9	2:62			
109	108	110	179-05-25.27	-0-00-03.73	-0.0045
2.35	1.6	2:64			
109	108	110	179-05-25.27	-0-00-03.23	-0.0039
2.35	1.4	2:66			
110	109	111	180-33-12.18	-0-00-03.32	-0.0041
2.24	1.5	2:68			
110	109	111	180-33-12.18	-0-00-02.32	-0.0029
2.24	1.0	2:70			
111	110	112	179-31-12.62	-0-00-05.38	-0.0096
1.96	2.7	2:72			
111	110	112	179-31-12.62	0-00-01.62	0.0029
1.96	0.8	2:74			

112		111	113	174-40-50.72	-0-00-04.78	-0.0070
1.83	2.6	2:76				
112		111	113	174-40-50.72	0-00-02.22	0.0032
1.83	1.2	2:78				
113		112	114	178-47-18.09	-0-00-01.41	-0.0017
2.11	0.7	2:80				
113		112	114	178-47-18.09	-0-00-01.41	-0.0017
2.11	0.7	2:82				
114		113	115	180-38-30.90	-0-00-01.10	-0.0011
2.44	0.5	2:84				
114		113	115	180-38-30.90	-0-00-02.10	-0.0021
2.44	0.9	2:86				
115		114	116	185-58-26.61	-0-00-00.89	-0.0008
2.69	0.3	2:88				
115		114	116	185-58-26.61	-0-00-02.39	-0.0023
2.69	0.9	2:90				
116		115	117	190-46-11.37	-0-00-01.13	-0.0013
2.57	0.4	2:92				
116		115	117	190-46-11.37	-0-00-01.13	-0.0013
2.57	0.4	2:94				
117		116	118	176-50-12.58	-0-00-00.42	-0.0005
2.38	0.2	2:96				
117		116	118	176-50-12.58	-0-00-00.42	-0.0005
2.38	0.2	2:98				
118		117	119	170-37-17.89	0-00-02.89	0.0019
3.11	0.9	2:100				
118		117	119	170-37-17.89	-0-00-02.61	-0.0017
3.11	0.8	2:102				
119		118	120	173-50-22.57	0-00-00.57	0.0005
3.36	0.2	2:104				
119		118	120	173-50-22.57	0-00-00.57	0.0005
3.36	0.2	2:106				
120		119	121	167-38-45.22	0-00-01.22	0.0011
2.95	0.4	2:108				
120		119	121	167-38-45.22	0-00-00.22	0.0002
2.95	0.1	2:110				
121		120	122	178-10-49.02	0-00-02.52	0.0022
3.00	0.8	2:112				
121		120	122	178-10-49.02	-0-00-00.98	-0.0008
3.00	0.3	2:114				
122		121	123	180-28-54.73	0-00-00.73	0.0007
2.94	0.2	2:116				
122		121	123	180-28-54.73	0-00-00.73	0.0007
2.94	0.2	2:118				
123		122	124	180-24-11.79	0-00-01.79	0.0022
2.55	0.7	2:120				
123		122	124	180-24-11.79	-0-00-00.71	-0.0009
2.55	0.3	2:122				
124		123	125	156-59-15.63	0-00-00.13	0.0002
2.13	0.1	2:124				
124		123	125	156-59-15.63	0-00-00.63	0.0008
2.13	0.3	2:126				
125		124	126	178-40-13.74	0-00-00.74	0.0006
2.56	0.3	2:128				
125		124	126	178-40-13.74	-0-00-00.76	-0.0007
2.56	0.3	2:130				
126		125	127	178-21-16.99	0-00-00.99	0.0009
2.93	0.3	2:132				

126		125	127	178-21-16.99	-0-00-02.01	-0.0019
2.93	0.7	2:134				
127		126	128	195-21-14.88	0-00-00.88	0.0009
2.65	0.3	2:136				
127		126	128	195-21-14.88	-0-00-02.62	-0.0028
2.65	1.0	2:138				
128		127	129	155-25-11.84	-0-00-02.16	-0.0018
2.72	0.8	2:140				
128		127	129	155-25-11.84	-0-00-00.16	-0.0001
2.72	0.1	2:142				
129		128	130	194-43-20.14	-0-00-04.86	-0.0081
2.40	2.0	2:144				
129		128	130	194-43-20.14	0-00-02.14	0.0036
2.40	0.9	2:146				
130		129	131	186-32-41.85	-0-00-01.15	-0.0016
1.88	0.6	2:148				
130		129	131	186-32-41.85	-0-00-01.65	-0.0023
1.88	0.9	2:150				
131		130	132	189-52-46.55	-0-00-00.95	-0.0009
2.43	0.4	2:152				
131		130	132	189-52-46.55	-0-00-03.45	-0.0032
2.43	1.4	2:154				
132		131	133	179-46-11.56	-0-00-02.44	-0.0024
2.75	0.9	2:156				
132		131	133	179-46-11.56	-0-00-02.94	-0.0029
2.75	1.1	2:158				
133		132	134	179-58-56.17	-0-00-01.83	-0.0021
2.48	0.7	2:160				
133		132	134	179-58-56.17	-0-00-02.33	-0.0027
2.48	0.9	2:162				
134		133	135	180-35-18.89	-0-00-02.61	-0.0042
2.08	1.3	2:164				
134		133	135	180-35-18.89	-0-00-00.11	-0.0002
2.08	0.1	2:166				
135		134	136	188-29-08.91	-0-00-03.59	-0.0048
1.96	1.8	2:168				
135		134	136	188-29-08.91	0-00-01.41	0.0019
1.96	0.7	2:170				
136		135	137	155-57-30.96	-0-00-02.04	-0.0022
2.25	0.9	2:172				
136		135	137	155-57-30.96	-0-00-00.54	-0.0006
2.25	0.2	2:174				
137		136	138	186-07-06.97	-0-00-01.03	-0.0013
2.31	0.4	2:176				
137		136	138	186-07-06.97	-0-00-01.53	-0.0020
2.31	0.7	2:178				
138		137	139	179-02-05.09	-0-00-01.41	-0.0017
2.20	0.6	2:180				
138		137	139	179-02-05.09	0-00-02.59	0.0032
2.20	1.2	2:182				
138		137	139	179-02-05.09	-0-00-02.41	-0.0030
2.20	1.1	2:184				
138		137	139	179-02-05.09	-0-00-00.91	-0.0011
2.20	0.4	2:186				
139		138	140	188-13-03.16	-0-00-01.34	-0.0015
2.33	0.6	2:188				
139		138	140	188-13-03.16	-0-00-00.84	-0.0009
2.33	0.4	2:190				

140		139	141	195-22-35.80	-0-00-01.70	-0.0022
2.29	0.7	2:192				
140		139	141	195-22-35.80	-0-00-00.20	-0.0003
2.29	0.1	2:194				
141		140	142	184-12-44.62	-0-00-01.38	-0.0011
2.72	0.5	2:196				
141		140	142	184-12-44.62	-0-00-00.88	-0.0007
2.72	0.3	2:198				
142		141	143	182-37-23.92	-0-00-01.58	-0.0011
3.44	0.5	2:200				
142		141	143	182-37-23.92	-0-00-01.58	-0.0011
3.44	0.5	2:202				
143		142	144	182-42-38.64	-0-00-01.36	-0.0024
2.71	0.5	2:204				
143		142	144	182-42-38.64	-0-00-00.36	-0.0006
2.71	0.1	2:206				
144		143	145	180-30-31.44	-0-00-02.06	-0.0023
2.04	1.0	2:208				
144		143	145	180-30-31.44	0-00-01.44	0.0016
2.04	0.7	2:210				
145		144	146	190-30-16.98	0-00-00.48	0.0005
2.44	0.2	2:212				
145		144	146	190-30-16.98	-0-00-01.02	-0.0011
2.44	0.4	2:214				
146		145	147	169-34-31.17	-0-00-01.33	-0.0022
2.14	0.6	2:216				
146		145	147	169-34-31.17	0-00-01.17	0.0020
2.14	0.5	2:218				
147		146	148	172-40-44.78	-0-00-01.72	-0.0032
1.71	1.0	2:220				
147		146	148	172-40-44.78	0-00-01.28	0.0024
1.71	0.7	2:222				
147		146	148	172-40-44.78	0-00-02.28	0.0042
1.71	1.3	2:224				
147		146	148	172-40-44.78	-0-00-01.72	-0.0032
1.71	1.0	2:226				
148		147	149	178-41-45.42	-0-00-00.08	-0.0002
1.62	0.0	2:228				
148		147	149	178-41-45.42	0-00-00.42	0.0008
1.62	0.3	2:230				
149		148	150	196-29-57.41	-0-00-00.09	-0.0001
1.93	0.0	2:232				
149		148	150	196-29-57.41	0-00-00.91	0.0011
1.93	0.5	2:234				
150		149	151	188-26-40.66	-0-00-00.84	-0.0012
2.16	0.4	2:236				
150		149	151	188-26-40.66	0-00-02.16	0.0030
2.16	1.0	2:238				
151		150	152	171-38-09.68	0-00-00.68	0.0011
1.95	0.3	2:240				
151		150	152	171-38-09.68	0-00-00.68	0.0011
1.95	0.3	2:242				
152		151	153	182-41-51.90	0-00-01.40	0.0014
2.30	0.6	2:244				
152		151	153	182-41-51.90	0-00-00.90	0.0009
2.30	0.4	2:246				
153		152	154	180-20-58.65	0-00-01.65	0.0018
2.61	0.6	2:248				

153		152	154	180-20-58.65	0-00-01.65	0.0018
2.61	0.6	2:250				
154		153	155	171-05-23.04	0-00-01.54	0.0018
2.39	0.6	2:252				
154		153	155	171-05-23.04	0-00-01.54	0.0018
2.39	0.6	2:254				
155		154	156	195-53-22.06	0-00-00.06	0.0001
2.29	0.0	2:256				
155		154	156	195-53-22.06	0-00-03.06	0.0036
2.29	1.3	2:258				
156		155	157	153-18-05.02	0-00-03.02	0.0024
2.76	1.1	2:260				
156		155	157	153-18-05.02	0-00-02.02	0.0016
2.76	0.7	2:262				
157		156	158	233-20-42.33	0-00-02.83	0.0045
2.45	1.2	2:264				
157		156	158	233-20-42.33	0-00-01.33	0.0021
2.45	0.5	2:266				

Adjusted Distance Observations (FeetUS)

StdRes	From File:Line	To	Distance	Residual	StdErr
	101	100	299.5711	-0.0062	0.0073
0.8	2:25				
	101	102	170.0747	0.0033	0.0070
0.5	2:26				
	101	100	299.5711	-0.0055	0.0073
0.8	2:27				
	101	102	170.0747	0.0018	0.0070
0.3	2:28				
	101	100	299.5711	-0.0073	0.0073
1.0	2:29				
	101	500	86.6443	-0.0000	0.0069
0.0	2:30				
	101	100	299.5711	-0.0067	0.0073
0.9	2:31				
	101	501	87.9707	-0.0000	0.0069
0.0	2:32				
	101	100	299.5711	-0.0059	0.0073
0.8	2:33				
	101	502	114.6281	-0.0000	0.0069
0.0	2:34				
	102	101	170.0747	0.0048	0.0070
0.7	2:35				
	102	103	227.1052	-0.0010	0.0072
0.1	2:36				
	102	101	170.0747	0.0051	0.0070
0.7	2:37				
	102	103	227.1052	-0.0018	0.0072
0.2	2:38				
	103	102	227.1052	0.0048	0.0072
0.7	2:39				
	103	104	102.2670	-0.0006	0.0069
0.1	2:40				
	103	102	227.1052	0.0052	0.0072
0.7	2:41				



	103	104	102.2670	0.0006	0.0069
0.1	2:42				
	103	102	227.1052	0.0045	0.0072
0.6	2:43				
	103	105	244.7920	0.0000	0.0072
0.0	2:44				
	103	102	227.1052	0.0047	0.0072
0.7	2:45				
	103	105	244.7920	0.0005	0.0072
0.1	2:46				
	105	103	244.7920	0.0075	0.0072
1.0	2:47				
	105	106	219.5488	0.0065	0.0071
0.9	2:48				
	105	103	244.7920	0.0079	0.0072
1.1	2:49				
	105	106	219.5488	0.0024	0.0071
0.3	2:50				
	106	105	219.5488	0.0033	0.0071
0.5	2:51				
	106	107	297.8366	0.0019	0.0073
0.3	2:52				
	106	105	219.5488	0.0033	0.0071
0.5	2:53				
	106	107	297.8366	0.0021	0.0073
0.3	2:54				
	107	106	297.8366	0.0064	0.0073
0.9	2:55				
	107	108	264.2611	0.0030	0.0072
0.4	2:56				
	107	106	297.8366	0.0052	0.0073
0.7	2:57				
	107	108	264.2611	0.0028	0.0072
0.4	2:58				
	108	107	264.2611	0.0045	0.0072
0.6	2:59				
	108	109	228.1386	0.0026	0.0072
0.4	2:60				
	108	107	264.2611	0.0051	0.0072
0.7	2:61				
	108	109	228.1386	0.0029	0.0072
0.4	2:62				
	109	108	228.1386	0.0047	0.0072
0.7	2:63				
	109	110	248.6876	0.0044	0.0072
0.6	2:64				
	109	108	228.1386	0.0050	0.0072
0.7	2:65				
	109	110	248.6876	0.0051	0.0072
0.7	2:66				
	110	109	248.6876	0.0030	0.0072
0.4	2:67				
	110	111	254.5363	0.0045	0.0072
0.6	2:68				
	110	109	248.6876	0.0031	0.0072
0.4	2:69				
	110	111	254.5363	0.0045	0.0072
0.6	2:70				

0.4	111	110	254.5363	0.0031	0.0072
	2:71				
	111	112	367.0101	0.0077	0.0074
1.0	2:72				
	111	110	254.5363	0.0035	0.0072
0.5	2:73				
	111	112	367.0101	0.0067	0.0074
0.9	2:74				
	112	111	367.0101	0.0018	0.0074
0.2	2:75				
	112	113	300.8823	0.0065	0.0073
0.9	2:76				
	112	111	367.0101	0.0006	0.0074
0.1	2:77				
	112	113	300.8823	0.0062	0.0073
0.9	2:78				
	113	112	300.8823	0.0021	0.0073
0.3	2:79				
	113	114	250.0100	0.0065	0.0072
0.9	2:80				
	113	112	300.8823	0.0017	0.0073
0.2	2:81				
	113	114	250.0100	0.0065	0.0072
0.9	2:82				
	114	113	250.0100	0.0016	0.0072
0.2	2:83				
	114	115	208.9801	0.0044	0.0071
0.6	2:84				
	114	113	250.0100	0.0017	0.0072
0.2	2:85				
	114	115	208.9801	0.0053	0.0071
0.7	2:86				
	115	114	208.9801	0.0035	0.0071
0.5	2:87				
	115	116	195.4406	0.0036	0.0071
0.5	2:88				
	115	114	208.9801	0.0028	0.0071
0.4	2:89				
	115	116	195.4406	0.0038	0.0071
0.5	2:90				
	116	115	195.4406	0.0036	0.0071
0.5	2:91				
	116	117	234.5336	0.0041	0.0072
0.6	2:92				
	116	115	195.4406	0.0042	0.0071
0.6	2:93				
	116	117	234.5336	0.0043	0.0072
0.6	2:94				
	117	116	234.5336	0.0029	0.0072
0.4	2:95				
	117	118	232.1709	0.0070	0.0072
1.0	2:96				
	117	116	234.5336	0.0029	0.0072
0.4	2:97				
	117	118	232.1709	0.0073	0.0072
1.0	2:98				
	118	117	232.1709	0.0002	0.0072
0.0	2:99				

	118	119	137.9947	0.0029	0.0070
0.4	2:100				
	118	117	232.1709	0.0000	0.0072
0.0	2:101				
	118	119	137.9947	0.0020	0.0070
0.3	2:102				
	119	118	137.9947	0.0053	0.0070
0.8	2:103				
	119	120	184.1720	0.0056	0.0071
0.8	2:104				
	119	118	137.9947	0.0048	0.0070
0.7	2:105				
	119	120	184.1720	0.0050	0.0071
0.7	2:106				
	120	119	184.1720	0.0028	0.0071
0.4	2:107				
	120	121	179.2121	0.0030	0.0071
0.4	2:108				
	120	119	184.1720	0.0022	0.0071
0.3	2:109				
	120	121	179.2121	0.0038	0.0071
0.5	2:110				
	121	120	179.2121	0.0041	0.0071
0.6	2:111				
	121	122	177.8361	0.0027	0.0071
0.4	2:112				
	121	120	179.2121	0.0052	0.0071
0.7	2:113				
	121	122	177.8361	0.0032	0.0071
0.5	2:114				
	122	121	177.8361	0.0045	0.0071
0.6	2:115				
	122	123	187.4481	0.0046	0.0071
0.7	2:116				
	122	121	177.8361	0.0056	0.0071
0.8	2:117				
	122	123	187.4481	0.0043	0.0071
0.6	2:118				
	123	122	187.4481	0.0028	0.0071
0.4	2:119				
	123	124	254.0310	0.0004	0.0072
0.1	2:120				
	123	122	187.4481	0.0043	0.0071
0.6	2:121				
	123	124	254.0310	0.0005	0.0072
0.1	2:122				
	124	123	254.0310	0.0067	0.0072
0.9	2:123				
	124	125	277.9023	0.0014	0.0073
0.2	2:124				
	124	123	254.0310	0.0092	0.0072
1.3	2:125				
	124	125	277.9023	0.0024	0.0073
0.3	2:126				
	125	124	277.9023	0.0061	0.0073
0.8	2:127				
	125	126	176.9307	0.0030	0.0071
0.4	2:128				

0.8	125 2:129	124	277.9023	0.0057	0.0073
0.5	125 2:130	126	176.9307	0.0038	0.0071
0.6	126 2:131	125	176.9307	0.0041	0.0071
0.5	126 2:132	127	190.9030	0.0032	0.0071
0.5	126 2:133	125	176.9307	0.0037	0.0071
0.5	126 2:134	127	190.9030	0.0033	0.0071
0.6	127 2:135	126	190.9030	0.0045	0.0071
0.6	127 2:136	128	221.0484	0.0046	0.0071
0.5	127 2:137	126	190.9030	0.0035	0.0071
0.7	127 2:138	128	221.0484	0.0051	0.0071
0.4	128 2:139	127	221.0484	0.0028	0.0071
0.6	128 2:140	129	176.5072	0.0040	0.0071
0.5	128 2:141	127	221.0484	0.0039	0.0071
0.5	128 2:142	129	176.5072	0.0036	0.0071
0.3	129 2:143	128	176.5072	0.0024	0.0071
2.4	129 2:144	130	345.3351	0.0180	0.0074
0.5	129 2:145	128	176.5072	0.0032	0.0071
2.5	129 2:146	130	345.3351	0.0186	0.0074
3.0*	130 2:147	129	345.3351	0.0225	0.0074
0.4	130 2:148	131	293.1614	0.0030	0.0073
3.1*	130 2:149	129	345.3351	0.0229	0.0074
0.3	130 2:150	131	293.1614	0.0019	0.0073
0.2	131 2:151	130	293.1614	-0.0016	0.0073
0.6	131 2:152	132	188.4880	0.0040	0.0071
0.2	131 2:153	130	293.1614	-0.0013	0.0073
0.4	131 2:154	132	188.4880	0.0027	0.0071
0.4	132 2:155	131	188.4880	-0.0028	0.0071
0.2	132 2:156	133	206.7290	0.0012	0.0071
0.3	132 2:157	131	188.4880	-0.0021	0.0071

	132	133	206.7290	0.0017	0.0071
0.2	2:158				
	133	132	206.7290	-0.0007	0.0071
0.1	2:159				
	133	134	240.9600	0.0014	0.0072
0.2	2:160				
	133	132	206.7290	-0.0005	0.0071
0.1	2:161				
	133	134	240.9600	0.0007	0.0072
0.1	2:162				
	134	133	240.9600	-0.0006	0.0072
0.1	2:163				
	134	135	330.8786	0.0039	0.0074
0.5	2:164				
	134	133	240.9600	0.0002	0.0072
0.0	2:165				
	134	135	330.8786	0.0037	0.0074
0.5	2:166				
	135	134	330.8786	-0.0025	0.0074
0.3	2:167				
	135	136	273.5794	-0.0021	0.0072
0.3	2:168				
	135	134	330.8786	-0.0033	0.0074
0.4	2:169				
	135	136	273.5794	-0.0023	0.0072
0.3	2:170				
	136	135	273.5794	0.0023	0.0072
0.3	2:171				
	136	137	225.8671	0.0033	0.0072
0.5	2:172				
	136	135	273.5794	0.0036	0.0072
0.5	2:173				
	136	137	225.8671	0.0036	0.0072
0.5	2:174				
	137	136	225.8671	-0.0024	0.0072
0.3	2:175				
	137	138	262.8514	-0.0001	0.0072
0.0	2:176				
	137	136	225.8671	-0.0021	0.0072
0.3	2:177				
	137	138	262.8514	0.0005	0.0072
0.1	2:178				
	138	137	262.8514	-0.0000	0.0072
0.0	2:179				
	138	139	252.7942	0.0027	0.0072
0.4	2:180				
	138	137	262.8514	-0.0005	0.0072
0.1	2:181				
	138	139	252.7942	0.0025	0.0072
0.3	2:182				
	138	137	262.8514	0.0013	0.0072
0.2	2:183				
	138	139	252.7942	0.0022	0.0072
0.3	2:184				
	138	137	262.8514	0.0010	0.0072
0.1	2:185				
	138	139	252.7942	0.0035	0.0072
0.5	2:186				

	139	138	252.7942	-0.0043	0.0072
0.6	2:187				
	139	140	228.5575	0.0002	0.0072
0.0	2:188				
	139	138	252.7942	-0.0043	0.0072
0.6	2:189				
	139	140	228.5575	0.0001	0.0072
0.0	2:190				
	140	139	228.5575	0.0006	0.0072
0.1	2:191				
	140	141	261.2850	0.0012	0.0072
0.2	2:192				
	140	139	228.5575	0.0009	0.0072
0.1	2:193				
	140	141	261.2850	0.0011	0.0072
0.2	2:194				
	141	140	261.2850	-0.0007	0.0072
0.1	2:195				
	141	142	164.0319	-0.0043	0.0070
0.6	2:196				
	141	140	261.2850	-0.0002	0.0072
0.0	2:197				
	141	142	164.0319	-0.0042	0.0070
0.6	2:198				
	142	141	164.0319	0.0045	0.0070
0.6	2:199				
	142	143	144.3189	-0.0015	0.0070
0.2	2:200				
	142	141	164.0319	0.0050	0.0070
0.7	2:201				
	142	143	144.3189	-0.0023	0.0070
0.3	2:202				
	143	142	144.3189	0.0026	0.0070
0.4	2:203				
	143	144	365.7468	-0.0014	0.0074
0.2	2:204				
	143	142	144.3189	0.0023	0.0070
0.3	2:205				
	143	144	365.7468	-0.0005	0.0074
0.1	2:206				
	144	143	365.7468	0.0013	0.0074
0.2	2:207				
	144	145	234.6453	0.0020	0.0072
0.3	2:208				
	144	143	365.7468	0.0015	0.0074
0.2	2:209				
	144	145	234.6453	0.0018	0.0072
0.3	2:210				
	145	144	234.6453	-0.0016	0.0072
0.2	2:211				
	145	146	219.2412	0.0003	0.0071
0.0	2:212				
	145	144	234.6453	-0.0013	0.0072
0.2	2:213				
	145	146	219.2412	0.0000	0.0071
0.0	2:214				
	146	145	219.2412	-0.0001	0.0071
0.0	2:215				

	146	147	347.3665	0.0018	0.0074
0.2	2:216				
	146	145	219.2412	0.0001	0.0071
0.0	2:217				
	146	147	347.3665	0.0013	0.0074
0.2	2:218				
	147	146	347.3665	-0.0005	0.0074
0.1	2:219				
	147	148	380.3194	-0.0004	0.0075
0.1	2:220				
	147	146	347.3665	-0.0005	0.0074
0.1	2:221				
	147	148	380.3194	-0.0002	0.0075
0.0	2:222				
	147	146	347.3665	-0.0005	0.0074
0.1	2:223				
	147	148	380.3194	-0.0002	0.0075
0.0	2:224				
	147	146	347.3665	-0.0008	0.0074
0.1	2:225				
	147	148	380.3194	-0.0006	0.0075
0.1	2:226				
	148	147	380.3194	0.0012	0.0075
0.2	2:227				
	148	149	415.4538	0.0013	0.0075
0.2	2:228				
	148	147	380.3194	0.0014	0.0075
0.2	2:229				
	148	149	415.4538	0.0019	0.0075
0.3	2:230				
	149	148	415.4538	-0.0007	0.0075
0.1	2:231				
	149	150	244.7570	-0.0028	0.0072
0.4	2:232				
	149	148	415.4538	-0.0011	0.0075
0.1	2:233				
	149	150	244.7570	-0.0033	0.0072
0.5	2:234				
	150	149	244.7570	0.0034	0.0072
0.5	2:235				
	150	151	283.9696	-0.0044	0.0073
0.6	2:236				
	150	149	244.7570	0.0032	0.0072
0.4	2:237				
	150	151	283.9696	-0.0050	0.0073
0.7	2:238				
	151	150	283.9696	0.0047	0.0073
0.6	2:239				
	151	152	320.5800	-0.0013	0.0073
0.2	2:240				
	151	150	283.9696	0.0048	0.0073
0.7	2:241				
	151	152	320.5800	-0.0008	0.0073
0.1	2:242				
	152	151	320.5800	0.0009	0.0073
0.1	2:243				
	152	153	199.6422	-0.0014	0.0071
0.2	2:244				

0.3	152	151	320.5800	0.0019	0.0073
	2:245				
	152	153	199.6422	-0.0009	0.0071
0.1	2:246				
	153	152	199.6422	0.0017	0.0071
0.2	2:247				
	153	154	220.0842	-0.0039	0.0071
0.5	2:248				
	153	152	199.6422	0.0011	0.0071
0.2	2:249				
	153	154	220.0842	-0.0040	0.0071
0.6	2:250				
	154	153	220.0842	0.0041	0.0071
0.6	2:251				
	154	155	246.0187	0.0015	0.0072
0.2	2:252				
	154	153	220.0842	0.0043	0.0071
0.6	2:253				
	154	155	246.0187	0.0019	0.0072
0.3	2:254				
	155	154	246.0187	-0.0011	0.0072
0.2	2:255				
	155	156	242.2165	-0.0016	0.0072
0.2	2:256				
	155	154	246.0187	-0.0015	0.0072
0.2	2:257				
	155	156	242.2165	-0.0016	0.0072
0.2	2:258				
	156	155	242.2165	0.0018	0.0072
0.3	2:259				
	156	157	161.6284	-0.0031	0.0070
0.4	2:260				
	156	155	242.2165	0.0014	0.0072
0.2	2:261				
	156	157	161.6284	-0.0032	0.0070
0.5	2:262				
	157	156	161.6284	0.0041	0.0070
0.6	2:263				
	157	158	329.6972	0.0049	0.0074
0.7	2:264				
	157	156	161.6284	0.0036	0.0070
0.5	2:265				
	157	158	329.6972	0.0039	0.0074
0.5	2:266				



Adjusted Azimuths (DMS) and Horizontal Distances (FeetUS)

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 (Relative Confidence of Azimuth is in Seconds)

From	To	Azimuth	Distance	95% RelConfidence		
				Azi	Dist	PPM
100 0.0038	101	128-57-28.37	299.5711	0.00	0.0000	
101 49.9351	102	142-42-58.21	170.0747	4.04	0.0085	
101 194.4154	500	160-26-01.87	86.6443	9.81	0.0168	
101 191.5563	501	159-46-30.37	87.9707	9.70	0.0169	
101 148.1232	502	263-39-51.87	114.6281	6.33	0.0170	
102 31.1717	103	127-38-15.89	227.1052	5.30	0.0071	
103 116.9892	104	139-04-21.14	102.2670	8.43	0.0120	
103 35.3883	105	140-14-06.59	244.7920	5.67	0.0087	
105 39.1974	106	142-20-58.67	219.5488	5.78	0.0086	
106 29.5058	107	147-19-59.50	297.8366	5.70	0.0088	
107 32.9620	108	146-41-45.42	264.2611	5.60	0.0087	
108 37.8123	109	144-28-59.00	228.1386	5.44	0.0086	
109 34.8749	110	143-34-24.27	248.6876	5.22	0.0087	
110 34.1273	111	144-07-36.45	254.5363	5.03	0.0087	
111 24.3679	112	143-38-49.07	367.0101	4.92	0.0089	
112 29.2159	113	138-19-39.79	300.8823	4.95	0.0088	
113 34.6958	114	137-06-57.87	250.0100	5.10	0.0087	
114 41.0590	115	137-45-28.77	208.9801	5.39	0.0086	
115 43.7536	116	143-43-55.38	195.4406	5.77	0.0086	
116 36.8844	117	154-30-06.75	234.5336	6.11	0.0087	
117 37.2201	118	151-20-19.33	232.1709	6.44	0.0086	
118 61.0093	119	141-57-37.22	137.9947	6.94	0.0084	
119 46.2818	120	135-47-59.79	184.1720	7.23	0.0085	
120 47.5379	121	123-26-45.01	179.2121	7.28	0.0085	
121 47.8988	122	121-37-34.03	177.8361	7.20	0.0085	
122 45.5574	123	122-06-28.76	187.4481	6.98	0.0085	

123	124	122-30-40.55	254.0310	6.75	0.0087
34.2159					
124	125	99-29-56.18	277.9023	6.58	0.0088
31.6239					
125	126	98-10-09.91	176.9307	6.40	0.0086
48.3595					
126	127	96-31-26.91	190.9030	5.95	0.0086
45.0091					
127	128	111-52-41.78	221.0484	5.26	0.0086
39.0482					
128	129	87-17-53.62	176.5072	3.84	0.0086
48.6022					
129	130	102-01-13.76	345.3351	0.00	0.0000
0.0033					
130	131	108-33-55.62	293.1614	3.07	0.0088
30.0492					
131	132	118-26-42.16	188.4880	4.58	0.0086
45.3774					
132	133	118-12-53.72	206.7290	5.40	0.0086
41.5780					
133	134	118-11-49.90	240.9600	5.61	0.0087
35.9987					
134	135	118-47-08.79	330.8786	5.62	0.0089
26.8389					
135	136	127-16-17.70	273.5794	5.62	0.0087
31.9499					
136	137	103-13-48.65	225.8671	5.60	0.0087
38.3552					
137	138	109-20-55.62	262.8514	5.58	0.0072
27.2537					
138	139	108-23-00.71	252.7942	5.61	0.0071
28.2655					
139	140	116-36-03.87	228.5575	5.75	0.0086
37.8359					
140	141	131-58-39.67	261.2850	5.88	0.0087
33.3374					
141	142	136-11-24.30	164.0319	5.98	0.0085
51.7397					
142	143	138-48-48.22	144.3189	5.73	0.0084
58.4959					
143	144	141-31-26.86	365.7468	5.28	0.0090
24.4731					
144	145	142-01-58.30	234.6453	5.06	0.0087
36.8668					
145	146	152-32-15.28	219.2412	4.75	0.0086
39.3359					
146	147	142-06-46.45	347.3665	4.52	0.0073
21.0506					
147	148	134-47-31.23	380.3194	4.49	0.0074
19.3888					
148	149	133-29-16.65	415.4538	4.54	0.0091
21.8155					
149	150	149-59-14.06	244.7570	4.72	0.0087
35.4635					
150	151	158-25-54.73	283.9696	4.95	0.0088
30.9239					
151	152	150-04-04.40	320.5800	5.17	0.0089
27.6198					

152 42.9728	153	152-45-56.30	199.6422	5.46	0.0086
153 39.1972	154	153-06-54.95	220.0842	5.61	0.0086
154 35.2735	155	144-12-17.99	246.0187	5.49	0.0087
155 35.8674	156	160-05-40.06	242.2165	5.14	0.0087
156 52.4757	157	133-23-45.07	161.6284	3.88	0.0085
157 0.0034	158	186-44-27.40	329.6972	0.00	0.0000

Error Propagation  
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Station Coordinate Standard Deviations (FeetUS)

Station	N	E
100	0.000000	0.000000
101	0.000000	0.000000
102	0.002889	0.002354
103	0.004118	0.003774
104	0.005941	0.005425
105	0.005821	0.005393
106	0.007243	0.006821
107	0.008795	0.008705
108	0.010121	0.010330
109	0.011181	0.011481
110	0.012138	0.012415
111	0.012941	0.013101
112	0.013908	0.013939
113	0.014756	0.014505
114	0.015383	0.014760
115	0.015753	0.014697
116	0.015897	0.014328
117	0.015903	0.013677
118	0.015782	0.013051
119	0.015545	0.012503
120	0.014846	0.011623
121	0.013849	0.010769
122	0.012670	0.009861
123	0.011229	0.008880
124	0.009095	0.007791
125	0.006530	0.006892
126	0.004998	0.005976
127	0.003330	0.004862
128	0.001353	0.003500
129	0.000000	0.000000
130	0.000000	0.000000
131	0.002020	0.003471
132	0.003367	0.004753
133	0.004728	0.005913
134	0.006296	0.007107
135	0.008525	0.008585
136	0.010186	0.010050
137	0.011607	0.010879
138	0.013027	0.011626
139	0.014520	0.012322
140	0.015574	0.013137
141	0.016393	0.014119
142	0.016619	0.014709
143	0.016451	0.014934
144	0.015942	0.014912
145	0.015475	0.014905
146	0.014859	0.014516
147	0.013714	0.013594
148	0.012456	0.012812
149	0.011102	0.011927
150	0.010271	0.011094
151	0.009305	0.009721

152	0.008055	0.008182
153	0.007038	0.007070
154	0.005809	0.005605
155	0.004394	0.003901
156	0.002566	0.002639
157	0.000000	0.000000
158	0.000000	0.000000
500	0.006509	0.002798
501	0.006486	0.002860
502	0.001620	0.006896

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

Station	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis
100	0.000000	0.000000	0-00
101	0.000000	0.000000	0-00
102	0.008493	0.003330	143-00
103	0.010913	0.008237	144-15
104	0.016195	0.011205	142-26
105	0.014276	0.013171	9-16
106	0.018771	0.015515	35-43
107	0.024845	0.017328	44-09
108	0.030015	0.018768	46-20
109	0.033786	0.019932	46-34
110	0.037006	0.020897	46-15
111	0.039526	0.021670	45-39
112	0.042729	0.022301	45-07
113	0.045239	0.022775	44-11
114	0.046801	0.023083	43-03
115	0.047346	0.023222	41-45
116	0.047006	0.023123	40-07
117	0.046023	0.022755	37-52
118	0.044794	0.022499	35-50
119	0.043495	0.022194	34-17
120	0.040721	0.021720	32-14
121	0.037460	0.020994	30-55
122	0.033772	0.020100	29-30
123	0.029411	0.019049	27-51
124	0.023257	0.017846	26-49
125	0.017516	0.015273	56-41
126	0.014701	0.012144	79-45
127	0.011906	0.008143	92-29
128	0.008579	0.003282	86-47
129	0.000000	0.000000	0-00
130	0.000000	0.000000	0-00
131	0.008810	0.004363	107-43
132	0.012095	0.007547	110-30
133	0.014668	0.011325	104-47
134	0.017524	0.015265	75-47
135	0.023757	0.017683	45-42
136	0.029425	0.019000	44-04
137	0.033435	0.019962	41-05
138	0.037441	0.020610	38-53
139	0.041477	0.021271	36-54
140	0.044763	0.021990	37-00
141	0.047991	0.022392	38-20

142		0.049382	0.022637	39-38
143		0.049397	0.022755	40-44
144		0.048325	0.022799	41-59
145		0.047442	0.022694	43-17
146		0.045601	0.022496	43-54
147		0.041685	0.022281	44-33
148		0.037869	0.021887	46-37
149		0.033840	0.021110	49-41
150		0.031007	0.020200	50-29
151		0.026847	0.019083	48-49
152		0.021841	0.017687	47-09
153		0.018339	0.016124	46-00
154		0.014277	0.013659	161-50
155		0.011662	0.008416	146-02
156		0.008482	0.003039	133-58
157		0.000000	0.000000	0-00
158		0.000000	0.000000	0-00
500		0.016845	0.004123	160-26
501		0.016851	0.004139	159-47
502		0.016979	0.003516	83-40

Relative Error Ellipses (FeetUS)  
Confidence Region = 95%

Stations From	To	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis
100	101	0.000000	0.000000	0-00
101	102	0.008493	0.003330	143-00
101	500	0.016845	0.004123	160-26
101	501	0.016851	0.004139	159-47
101	502	0.016979	0.003516	83-40
102	103	0.007082	0.005828	130-26
103	104	0.011964	0.004181	139-04
103	105	0.008667	0.006719	143-00
105	106	0.008610	0.006142	144-51
106	107	0.008818	0.008204	160-23
107	108	0.008722	0.007161	151-47
108	109	0.008633	0.006007	147-31
109	110	0.008681	0.006287	147-15
110	111	0.008694	0.006193	147-33
111	112	0.009054	0.008641	175-06
112	113	0.008809	0.007198	144-46
113	114	0.008682	0.006177	140-28
114	115	0.008583	0.005461	139-40
115	116	0.008552	0.005465	144-37
116	117	0.008651	0.006950	153-36
117	118	0.008643	0.007246	149-29
118	119	0.008420	0.004642	141-08
119	120	0.008530	0.006446	132-25
120	121	0.008527	0.006313	119-55
121	122	0.008530	0.006187	117-09
122	123	0.008561	0.006318	116-02
123	124	0.008870	0.008118	92-53
124	125	0.009054	0.008594	49-41
125	126	0.008563	0.005480	95-09
126	127	0.008598	0.005500	93-50
127	128	0.008640	0.005626	108-34
128	129	0.008579	0.003282	86-47

129	130	0.000000	0.000000	0-00
130	131	0.008810	0.004363	107-43
131	132	0.008555	0.004181	117-02
132	133	0.008603	0.005401	115-05
133	134	0.008697	0.006519	111-53
134	135	0.009269	0.008608	68-14
135	136	0.008817	0.007365	113-28
136	137	0.008676	0.006112	98-54
137	138	0.007314	0.006958	68-32
138	139	0.007216	0.006802	83-41
139	140	0.008662	0.006354	111-45
140	141	0.008746	0.007404	122-13
141	142	0.008490	0.004753	134-28
142	143	0.008442	0.004008	138-34
143	144	0.009374	0.008944	44-06
144	145	0.008652	0.005757	143-38
145	146	0.008626	0.005049	153-50
146	147	0.007685	0.007234	27-49
147	148	0.008331	0.007318	31-39
148	149	0.009454	0.008742	1-49
149	150	0.008689	0.005583	153-28
150	151	0.008796	0.006797	163-39
151	152	0.008921	0.007957	165-47
152	153	0.008586	0.005274	155-37
153	154	0.008635	0.005970	156-29
154	155	0.008690	0.006534	148-43
155	156	0.008691	0.006026	162-16
156	157	0.008482	0.003039	133-58
157	158	0.000000	0.000000	0-00

Elapsed Time = 00:00:00

22  
42  
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 00000033 Instrument Standard Error Settings  
03 00000035 Project Default Instrument  
01 00000044 Summary of Unadjusted Input Observations  
02 00000047 Entered Stations  
03 00000049 Fixed Coordinates  
02 00000057 Angle Observations  
02 00000182 Distance Observations  
01 00000428 Adjustment Statistical Summary  
01 00000449 Adjusted Coordinates  
01 00000516 Adjusted Observations and Residuals  
02 00000519 Adjusted Angle Observations  
02 00000644 Adjusted Distance Observations  
01 00000890 Adjusted Azimuths and Horizontal Distances  
01 00000958 Error Propagation  
02 00000961 Station Coordinate Standard Deviations  
02 00001027 Station Coordinate Error Ellipses  
02 00001095 Relative Error Ellipses  
01 00001161 End of File  
00012860

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