

```

# MicroSurvey STAR*NET V7
#
# This first data file in a new project is created using the customizable
# STAR*NET template data file. You can edit or delete the template. it is
# found in the following (default) location:
#
#   Windows XP:
#   C:\Documents and Settings\All Users\Application
Data\MicroSurvey\StarNet\V7\template.dat
#
#   Windows Vista/7:
#   C:\ProgramData\MicroSurvey\StarNet\V7\template.dat
#
# As a quick exercise you can uncomment and process the following sample data
# to identify and remove any blunders in the network.
#
.DATA OFF
.2D
.ORDER AtFromTo
C 1 1000.00 1000.00 ! ! 'CONTROL
B 1-2 0 !
D 1-2 100.01
M 1-2-3 90-00-00 100.00
M 3-1-4 90-00-00 99.98
M 3-1-2 45-00-00 151.52
M 4-3-2 90-00-00 100.02
M 4-3-1 45-00-00 141.42
.DATA ON
C M010 442807.844 4993810.403 424.171 !!! #467.663 43.492 2 FIXED 0.011
0.023
#C m012 442819.563 4993801.929 421.317 !!! #464.807 43.49 2 FIXED 0.017
0.03
C M011 442751.056 4993812.368 430.95 0.01 0.01 0.05 #474.448 43.498 2
FIXED 0.012 0.019
C m009 442685.962 4993807.537 435.615 !!! #479.119 43.504 2 FIXED 0.028
0.043
C m008 442670.515 4993799.228 435.166 !!! #478.671 43.505 2 FIXED 0.028
0.046
C m007 442726.724 4993779.959 431.076 !!! #474.575 43.499 2 FIXED 0.03
0.066
C M006 442782.87186 4993751.68296 424.07416 !!!
#C M006 442782.853 4993751.706 424.15 0.02 0.03 0.08 #467.643 43.493 20
FLOAT 0.023 0.039
C m013 442812.363 4993735.665 421.673 !!! #465.162 43.489 2 FIXED 0.025
0.043
C M005 442812.361 4993735.667 421.67 !!! #465.159 43.489 2 FIXED 0.01
0.019
C m004 442855.063 4993711.579 421.487 !!! #464.971 43.484 2 FIXED 0.01
0.017
C f014 442878.488 4993722.672 432.075 !!! #475.557 43.482 3 FIXED 0.036
0.056
C f015 442878.518 4993722.658 432.074 !!! #475.556 43.482 3 FIXED 0.021
0.032
C m1004 442861.371 4993735.412 431.284 !!! #474.768 43.484 2 FIXED 0.019

```

0.03  
 C m003 442827.451 4993762.562 435.342 !!! #478.83 43.488 2 FIXED 0.007  
 0.011  
 C f001 442797.244 4993788.855 440.821 !!! #484.313 43.492 3 FIXED 0.015  
 0.021  
 C base 442788.107 4993788.305 444.57 !!! #488.063 43.493 1 FIXED 0.016  
 0.02  
 C m002 442768.817 4993791.513 442.481 !!! #485.976 43.495 2 FIXED 0.047  
 0.073  
 C f016 442881.673 4993692.698 417.45 !!! #460.931 43.481 3 FIXED 0.014  
 0.025  
 C M050 442819.563 4993801.929 421.317 0.02 0.02 0.03 #464.807 43.49 2  
 FIXED 0.017 0.03

# Cappella 16 stazione 1601

DB 1601  
 DN 1602 83.919025  
 #DN M005 81.603835  
 DN M006 267.994055  
 DN M005 81.593355  
 DN CB1610 25.7315  
 DN CB1611 107.38872  
 DN CB1612 90.00258  
 DN CB1613 72.71851  
 DN CB1614 86.4081  
 DN F01615 117.75029  
 DN F01616 51.45146  
 DN F01617 72.4206  
 DN F01618 70.46826  
 DN F01619 70.38061  
 DN F01620 72.6522  
 DN F01621 72.66885  
 DN F01622 73.59177  
 DN F01623 73.63882  
 DN CG1640 42.81666  
 DE

V 1601-1602 113.20153 1.505/0.1  
 #V 1601-M005 108.276695 1.505/0.1  
 V 1601-M006 99.582385 1.505/0.1  
 #V 1601-M005 102.97407 1.505/1.575  
 V 1601-M005 102.9741525 1.505/1.575

V 1601-CB1610 96.41969 1.505/0  
 V 1601-CB1611 115.00065 1.505/0  
 V 1601-CB1612 107.17119 1.505/0  
 V 1601-CB1613 101.55343 1.505/0  
 V 1601-CB1614 100.33094 1.505/0  
 V 1601-F01615 62.56761 1.505/0  
 V 1601-F01616 58.83197 1.505/0  
 V 1601-F01617 30.53504 1.505/0  
 V 1601-F01618 87.31228 1.505/0  
 V 1601-F01619 110.23176 1.505/0

V 1601-F01620 91.64607 1.505/0  
V 1601-F01621 112.13716 1.505/0  
V 1601-F01622 105.29558 1.505/0  
V 1601-F01623 93.47171 1.505/0  
V 1601-CG1640 131.02051 1.505/0

D 1601-1602 7.863 1.505/0.1  
#D 1601-M005 17.7745 1.505/0.1  
D 1601-M006 16.139 1.505/0.1  
#D 1601-M005 17.645 1.505/1.575  
D 1601-M005 17.6445 1.505/1.575

D 1601-CB1610 4.083 1.505/0  
D 1601-CB1611 3.808 1.505/0  
D 1601-CB1612 7.945 1.505/0  
D 1601-CB1613 8.381 1.505/0  
D 1601-CB1614 11.475 1.505/0  
D 1601-F01615 4.725 1.505/0  
D 1601-F01616 4.294 1.505/0  
D 1601-F01617 6.762 1.505/0  
D 1601-F01618 5.532 1.505/0  
D 1601-F01619 5.499 1.505/0  
D 1601-F01620 8.386 1.505/0  
D 1601-F01621 8.463 1.505/0  
D 1601-F01622 10.658 1.505/0  
D 1601-F01623 10.678 1.505/0  
D 1601-CG1640 3.06 1.505/0

# Cappella 16 stazione M005

DB M005  
DN 1601 47.778175  
DN 1602 45.9906

DN CB030 55.67964  
DN CG031 89.10752  
DN CB032 83.70017  
DN CB033 63.53846  
DN F0034 58.0397  
DN F0035 58.0473  
DN F0036 54.03323  
DN F0037 54.04831  
DN F0038 52.14924  
DN F0039 52.1312  
DN F0040 30.97713  
DN F0041 71.91468  
DN F0042 61.50148  
DN F0043 56.74171  
DN F0044 101.31875

DE

V M005-1601 97.02771 1.575/1.505  
V M005-1602 105.079625 1.575/0.1

D M005-1602 9.9705 1.575/0.1  
D M005-1601 17.644 1.575/1.505

V M005-CB030 95.81199 1.505/0  
V M005-CG031 106.51878 1.505/0  
V M005-CB032 89.44251 1.505/0  
V M005-CB033 92.1438 1.505/0  
V M005-F0034 84.95927 1.505/0  
V M005-F0035 100.44864 1.505/0  
V M005-F0036 88.84165 1.505/0  
V M005-F0037 104.6185 1.505/0  
V M005-F0038 100.27631 1.505/0  
V M005-F0039 90.74432 1.505/0  
V M005-F0040 65.50293 1.505/0  
V M005-F0041 67.71014 1.505/0  
V M005-F0042 57.00175 1.505/0  
V M005-F0043 59.07744 1.505/0  
V M005-F0044 58.41008 1.505/0

D M005-CB030 9.432 1.505/0  
D M005-CG031 5.665 1.505/0  
D M005-CB032 6.671 1.505/0  
D M005-CB033 6.135 1.505/0  
D M005-F0034 8.196 1.505/0  
D M005-F0035 7.968 1.505/0  
D M005-F0036 10.988 1.505/0  
D M005-F0037 10.844 1.505/0  
D M005-F0038 13.087 1.505/0  
D M005-F0039 13.226 1.505/0  
D M005-F0040 6.571 1.505/0  
D M005-F0041 7.004 1.505/0  
D M005-F0042 8.246 1.505/0  
D M005-F0043 10.73 1.505/0  
D M005-F0044 11.873 1.505/0

# Cappella 16 stazione 1602

DB 1602  
DN M005 29.72623  
DN 1601 233.85042

DN 015 329.00039  
DN 016 329.00628  
DN 011 318.02463  
DN 012 318.03804  
DN 013 308.78402  
DN 014 310.32142  
DN 01b 308.94708  
DN 01a 307.55373  
DN 01a\_bis 307.55407  
DN 01e 328.61971  
DN 01c 338.92019

DE

V 1602-M005 103.777165 1.485/1.575  
V 1602-1601 109.66049 1.485/0.1

D 1602-M005 9.957 1.485/1.575  
D 1602-1601 7.784 1.485/0.1

V 1602-015 114.84405 1.485/0  
V 1602-016 116.2895 1.485/0  
V 1602-011 102.16801 1.485/0  
V 1602-012 103.77365 1.485/0  
V 1602-013 100.32313 1.485/0.1  
V 1602-014 100.29713 1.485/0.1  
V 1602-01b 99.27847 1.485/0.1  
V 1602-01a 99.90444 1.485/0  
V 1602-01a\_bis 99.90504 1.485/0  
V 1602-01e 103.24575 1.485/0  
V 1602-01c 103.31898 1.485/0

D 1602-015 4.896 1.485/0  
D 1602-016 4.796 1.485/0  
D 1602-011 5.861 1.485/0  
D 1602-012 5.872 1.485/0  
D 1602-013 5.964 1.485/0.1  
D 1602-014 5.929 1.485/0.1  
D 1602-01b 6.154 1.485/0.1  
D 1602-01a 6.271 1.485/0  
D 1602-01a\_bis 6.27 1.485/0  
D 1602-01e 5.779 1.485/0  
D 1602-01c 5.852 1.485/0

# cappella 10 stazione 10100

DB 10100  
DN 10200 95.7123775  
DN M050 284.60041  
DN M010 101.09955

DN CB60 23.56391  
DN CB61 68.34864  
DN CB62 71.96596  
DN F064 20.74756  
DN F065 28.7362  
DN F066 36.29669  
DN F067 51.09464  
DN F068 57.68613  
DN CB69 55.10347  
DN F070 64.20416  
DN F071 70.8569  
DN F072 72.67317

DN F073 75.7192  
DN F074 70.42225  
DN F075 70.18113

DE

V 10100-10200 95.2132375 1.335/1.455  
V 10100-M050 124.7852 1.335/0  
V 10100-M010 111.51272 1.335/0.1

D 10100-10200 13.683 1.335/1.455  
D 10100-M050 10.254 1.335/0  
D 10100-M010 5.167 1.335/0.1

V 10100-CB60 86.04268 1.335/0  
V 10100-CB61 91.35735 1.335/0  
V 10100-CB62 92.36478 1.335/0  
V 10100-F064 64.64548 1.335/0  
V 10100-F065 64.35579 1.335/0  
V 10100-F066 60.59375 1.335/0  
V 10100-F067 49.30441 1.335/0  
V 10100-F068 73.71778 1.335/0  
V 10100-CB69 94.20039 1.335/0  
V 10100-F070 51.8576 1.335/0  
V 10100-F071 69.45435 1.335/0  
V 10100-F072 68.08188 1.335/0  
V 10100-F073 73.59712 1.335/0  
V 10100-F074 88.20506 1.335/0  
V 10100-F075 106.37238 1.335/0

D 10100-CB60 7.051 1.335/0  
D 10100-CB61 6.152 1.335/0  
D 10100-CB62 8.341 1.335/0  
D 10100-F064 8.583 1.335/0  
D 10100-F065 7.236 1.335/0  
D 10100-F066 6.58 1.335/0  
D 10100-F067 6.318 1.335/0  
D 10100-F068 4.554 1.335/0  
D 10100-CB69 4.282 1.335/0  
D 10100-F070 6.563 1.335/0  
D 10100-F071 7.642 1.335/0  
D 10100-F072 8.939 1.335/0  
D 10100-F073 10.963 1.335/0  
D 10100-F074 8.269 1.335/0  
D 10100-F075 8.177 1.335/0

# cappella 10 stazione 10200

DB 10200  
DN 10100 32.83001  
DN M010 29.65148  
DN 10300 192.50724

DN CB61 52.13917  
DN CB80 54.76483  
DN CB81 82.00103  
DN CB82 99.94575  
DN F083 56.42847  
DN F084 56.53237  
DN F085 59.19431  
DN F086 81.24043  
DN F087 86.44507  
DN F088 101.43347

DE

V 10200-10100 104.787305 1.455/1.335  
V 10200-M010 114.26202 1.455/0.1  
V 10200-10300 91.22209 1.455/1.395

D 10200-10100 13.683 1.455/1.335  
D 10200-M010 8.809 1.455/0.1  
D 10200-10300 23.753 1.455/1.395

V 10200-CB61 101.47205 1.455/0  
V 10200-CB80 107.67636 1.455/0  
V 10200-CB81 98.20399 1.455/0  
V 10200-CB82 92.56701 1.455/0  
V 10200-F083 96.09824 1.455/0  
V 10200-F084 114.41391 1.455/0  
V 10200-F085 77.67266 1.455/0  
V 10200-F086 56.67551 1.455/0  
V 10200-F087 63.57138 1.455/0  
V 10200-F088 75.9866 1.455/0

D 10200-CB61 8.498 1.455/0  
D 10200-CB80 8.221 1.455/0  
D 10200-CB81 4.756 1.455/0  
D 10200-CB82 8.349 1.455/0  
D 10200-F083 8.082 1.455/0  
D 10200-F084 8.287 1.455/0  
D 10200-F085 7.283 1.455/0  
D 10200-F086 5.986 1.455/0  
D 10200-F087 6.261 1.455/0  
D 10200-F088 9.409 1.455/0

#CAPPELLA 10 stazione 10300

DB 10300  
DN 10200 21.642965  
DN M011 204.161715  
DE

V 10300-10200 108.77974 1.395/1.455  
V 10300-M011 92.931715 1.395/1.475

```
D 10300-10200 23.753 1.395/1.455
D 10300-M011 27.283 1.395/1.475
```

```
# cappella 10 STAZIONE 10800
DB 10800
DN 10100 368.549635
DN 10200 184.392885
DN M010 342.45549
```

```
DN 1X12_017 60.78625
DN 1X12_018 61.13669
DN 1X12_019 69.47427
DN 1X12_01F 61.65505
DN 1X12_01D 73.15265
DN 1X12_021 49.03217
```

```
DE
```

```
V 10800-10100 115.31496 1.555/0.1
V 10800-10200 108.73998 1.555/0.1
V 10800-M010 133.7303725 1.555/0.1
```

```
D 10800-10100 7.531 1.555/0.1
D 10800-10200 6.495 1.555/0.1
D 10800-M010 2.94825 1.555/0.1
```

```
V 10800-1X12_017 102.92969 1.555/0
V 10800-1X12_018 105.20104 1.555/0
V 10800-1X12_019 99.7718 1.555/0
V 10800-1X12_01F 90.9617 1.555/0
V 10800-1X12_01D 110.02906 1.555/0
V 10800-1X12_021 111.62465 1.555/0
```

```
D 10800-1X12_017 3.729 1.555/0
D 10800-1X12_018 3.665 1.555/0
D 10800-1X12_019 7.897 1.555/0
D 10800-1X12_01F 8.846 1.555/0
D 10800-1X12_01D 6.142 1.555/0
D 10800-1X12_021 5.315 1.555/0
```

```
#
```

```
# Step 1: Uncomment the data block above either by changing the .DATA OFF line
# to .DATA ON or by adding a # character in front of the .DATA OFF line.
```

```
#
```

```
# Step 2: Go to Run | Blunder Detect to run the blunder detection tool.
```

```
#
```

```
# Step 3: View the Output | Listing file and examine the largest difference
# between the observed and calculated angles and distances. You will see that
# the problem is in the 3-2 distance from the M 3-1-2 line.
```

```
#
```

```
# Step 4: Once you have identified the blunder. comment it out by placing a #
# character in front of it like "#M 3-1-2 45-00-00 151.52"
```

```
#
```



```
# Step 5: Run the Blunder Detection again and examine the Listing for any more
# errors. In this case. there are no other blunders.
#
# Step 6: Go to Run | Adjust Network to adjust the network and calculate the
# final adjusted coordinates.
```

MicroSurvey STAR\*NET-PRO Version 7.1.0.5  
Run Date: Mon Aug 26 2024 18:51:30

Summary of Files Used and Option Settings  
=====

Project Folder and Data Files

Project Name        RETE\_TOTALSTATION  
Project Folder     D:\CREA2024\ELABORAZIONI\RETE  
Data File List    1. Rete\_totalStation.dat

Project Option Settings

STAR*NET Run Mode	: Adjust with Error Propagation
Type of Adjustment	: 3D
Project Units	: Meters; GONS
Coordinate System	: UTM; Zone 32
Ellipsoid	: WGS-84
Major Axis; 1 / Flattening	: 6378137.000; 298.257223563000
Geoid Height	: 0.0000 (Default, Meters)
Longitude Sign Convention	: Positive West
Input/Output Coordinate Order	: East-North
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
Create Coordinate File	: Yes
Create Geodetic Position File	: No
Create Ground Scale Coordinate File	: No
Create Dump File	: No

Instrument Standard Error Settings

Project Default Instrument	
Distances (Constant)	: 0.002000 Meters
Distances (PPM)	: 1.000000
Angles	: 1.000000 MilliGons
Directions	: 1.000000 MilliGons
Azimuths & Bearings	: 1.000000 MilliGons
Zeniths	: 2.000000 MilliGons
Elevation Differences (Constant)	: 0.001000 Meters
Elevation Differences (PPM)	: 0.000000
Differential Levels	: 0.002403 Meters / Km
Centering Error Instrument	: 0.001000 Meters
Centering Error Target	: 0.001000 Meters
Centering Error Vertical	: 0.003000 Meters



Summary of Unadjusted Input Observations  
=====

Number of Entered Stations (Meters) = 18

Fixed Stations	E	N	Elev	Description
M010	442807.8440	4993810.4030	424.1710	
m009	442685.9620	4993807.5370	435.6150	
m008	442670.5150	4993799.2280	435.1660	
m007	442726.7240	4993779.9590	431.0760	
M006	442782.8719	4993751.6830	424.0742	
m013	442812.3630	4993735.6650	421.6730	
M005	442812.3610	4993735.6670	421.6700	
m004	442855.0630	4993711.5790	421.4870	
f014	442878.4880	4993722.6720	432.0750	
f015	442878.5180	4993722.6580	432.0740	
m1004	442861.3710	4993735.4120	431.2840	
m003	442827.4510	4993762.5620	435.3420	
f001	442797.2440	4993788.8550	440.8210	
base	442788.1070	4993788.3050	444.5700	
m002	442768.8170	4993791.5130	442.4810	
f016	442881.6730	4993692.6980	417.4500	

Partially Fixed	E	N	Elev	Description
	StdErr	StdErr	StdErr	
M011	442751.0560	4993812.3680	430.9500	
	0.0100	0.0100	0.0500	
M050	442819.5630	4993801.9290	421.3170	
	0.0200	0.0200	0.0300	

Number of Measured Distance Observations (Meters) = 90

From	To	Distance	StdErr	HI	HT	Comb Grid	Type
1601	1602	7.8630	0.0026	1.505	0.100	0.9995741	S
1601	M006	16.1390	0.0025	1.505	0.100	0.9995740	S
1601	M005	17.6445	0.0025	1.505	1.575	0.9995741	S
1601	CB1610	4.0830	0.0025	1.505	0.000	0.9995740	S
1601	CB1611	3.8080	0.0026	1.505	0.000	0.9995739	S
1601	CB1612	7.9450	0.0025	1.505	0.000	0.9995740	S
1601	CB1613	8.3810	0.0025	1.505	0.000	0.9995740	S
1601	CB1614	11.4750	0.0025	1.505	0.000	0.9995739	S
1601	F01615	4.7250	0.0033	1.505	0.000	0.9995736	S
1601	F01616	4.2940	0.0034	1.505	0.000	0.9995738	S
1601	F01617	6.7620	0.0043	1.505	0.000	0.9995735	S
1601	F01618	5.5320	0.0026	1.505	0.000	0.9995739	S
1601	F01619	5.4990	0.0025	1.505	0.000	0.9995740	S
1601	F01620	8.3860	0.0025	1.505	0.000	0.9995739	S
1601	F01621	8.4630	0.0026	1.505	0.000	0.9995741	S
1601	F01622	10.6580	0.0025	1.505	0.000	0.9995740	S
1601	F01623	10.6780	0.0025	1.505	0.000	0.9995739	S
1601	CG1640	3.0600	0.0031	1.505	0.000	0.9995741	S
M005	1602	9.9705	0.0025	1.575	0.100	0.9995741	S
M005	1601	17.6440	0.0025	1.575	1.505	0.9995741	S
M005	CB030	9.4320	0.0025	1.505	0.000	0.9995740	S
M005	CG031	5.6650	0.0025	1.505	0.000	0.9995740	S
M005	CB032	6.6710	0.0025	1.505	0.000	0.9995739	S
M005	CB033	6.1350	0.0025	1.505	0.000	0.9995739	S
M005	F0034	8.1960	0.0026	1.505	0.000	0.9995739	S
M005	F0035	7.9680	0.0025	1.505	0.000	0.9995740	S

M005	F0036	10.9880	0.0026	1.505	0.000	0.9995739	S
M005	F0037	10.8440	0.0025	1.505	0.000	0.9995741	S
M005	F0038	13.0870	0.0025	1.505	0.000	0.9995740	S
M005	F0039	13.2260	0.0025	1.505	0.000	0.9995739	S
M005	F0040	6.5710	0.0032	1.505	0.000	0.9995738	S
M005	F0041	7.0040	0.0031	1.505	0.000	0.9995737	S
M005	F0042	8.2460	0.0035	1.505	0.000	0.9995736	S
M005	F0043	10.7300	0.0034	1.505	0.000	0.9995735	S
M005	F0044	11.8730	0.0035	1.505	0.000	0.9995733	S
1602	M005	9.9570	0.0025	1.485	1.575	0.9995741	S
1602	1601	7.7840	0.0025	1.485	0.100	0.9995741	S
1602	015	4.8960	0.0026	1.485	0.000	0.9995740	S
1602	016	4.7960	0.0027	1.485	0.000	0.9995740	S
1602	011	5.8610	0.0025	1.485	0.000	0.9995739	S
1602	012	5.8720	0.0025	1.485	0.000	0.9995739	S
1602	013	5.9640	0.0025	1.485	0.100	0.9995738	S
1602	014	5.9290	0.0025	1.485	0.100	0.9995738	S
1602	01b	6.1540	0.0025	1.485	0.100	0.9995738	S
1602	01a	6.2710	0.0025	1.485	0.000	0.9995738	S
1602	01a_bis	6.2700	0.0025	1.485	0.000	0.9995738	S
1602	01e	5.7790	0.0025	1.485	0.000	0.9995739	S
1602	01c	5.8520	0.0025	1.485	0.000	0.9995739	S
10100	10200	13.6830	0.0025	1.335	1.455	0.9995737	S
10100	M050	10.2540	0.0029	1.335	0.000	0.9995740	S
10100	M010	5.1670	0.0026	1.335	0.100	0.9995738	S
10100	CB60	7.0510	0.0026	1.335	0.000	0.9995736	S
10100	CB61	6.1520	0.0025	1.335	0.000	0.9995737	S
10100	CB62	8.3410	0.0025	1.335	0.000	0.9995737	S
10100	F064	8.5830	0.0032	1.335	0.000	0.9995734	S
10100	F065	7.2360	0.0032	1.335	0.000	0.9995735	S
10100	F066	6.5800	0.0034	1.335	0.000	0.9995735	S
10100	F067	6.3180	0.0038	1.335	0.000	0.9995734	S
10100	F068	4.5540	0.0029	1.335	0.000	0.9995737	S
10100	CB69	4.2820	0.0025	1.335	0.000	0.9995738	S
10100	F070	6.5630	0.0037	1.335	0.000	0.9995734	S
10100	F071	7.6420	0.0031	1.335	0.000	0.9995735	S
10100	F072	8.9390	0.0031	1.335	0.000	0.9995734	S
10100	F073	10.9630	0.0029	1.335	0.000	0.9995734	S
10100	F074	8.2690	0.0026	1.335	0.000	0.9995737	S
10100	F075	8.1770	0.0025	1.335	0.000	0.9995738	S
10200	10100	13.6830	0.0025	1.455	1.335	0.9995737	S
10200	M010	8.8090	0.0026	1.455	0.100	0.9995737	S
10200	10300	23.7530	0.0025	1.455	1.395	0.9995735	S
10200	CB61	8.4980	0.0025	1.455	0.000	0.9995735	S
10200	CB80	8.2210	0.0025	1.455	0.000	0.9995736	S
10200	CB81	4.7560	0.0025	1.455	0.000	0.9995734	S
10200	CB82	8.3490	0.0025	1.455	0.000	0.9995734	S
10200	F083	8.0820	0.0025	1.455	0.000	0.9995734	S
10200	F084	8.2870	0.0026	1.455	0.000	0.9995736	S
10200	F085	7.2830	0.0028	1.455	0.000	0.9995733	S
10200	F086	5.9860	0.0035	1.455	0.000	0.9995731	S
10200	F087	6.2610	0.0033	1.455	0.000	0.9995732	S
10200	F088	9.4090	0.0029	1.455	0.000	0.9995732	S
10300	10200	23.7530	0.0025	1.395	1.455	0.9995735	S

10300	M011	27.2830	0.0025	1.395	1.475	0.9995731	S
10800	10100	7.5310	0.0026	1.555	0.100	0.9995738	S
10800	10200	6.4950	0.0025	1.555	0.100	0.9995737	S
10800	M010	2.9482	0.0032	1.555	0.100	0.9995738	S
10800	1X12_017	3.7290	0.0025	1.555	0.000	0.9995736	S
10800	1X12_018	3.6650	0.0025	1.555	0.000	0.9995736	S
10800	1X12_019	7.8970	0.0025	1.555	0.000	0.9995736	S
10800	1X12_01F	8.8460	0.0025	1.555	0.000	0.9995735	S
10800	1X12_01D	6.1420	0.0025	1.555	0.000	0.9995737	S
10800	1X12_021	5.3150	0.0026	1.555	0.000	0.9995736	S

Number of Zenith Observations (GONS) = 90

From	To	Zenith	StdErr	HI	HT
1601	1602	113.201530	33.77	1.505	0.100
1601	M006	99.582385	16.86	1.505	0.100
1601	M005	102.974153	15.43	1.505	1.575
1601	CB1610	96.419690	66.11	1.505	0.000
1601	CB1611	115.000650	69.24	1.505	0.000
1601	CB1612	107.171190	33.88	1.505	0.000
1601	CB1613	101.553430	32.29	1.505	0.000
1601	CB1614	100.330940	23.63	1.505	0.000
1601	F01615	62.567610	48.78	1.505	0.000
1601	F01616	58.831970	51.82	1.505	0.000
1601	F01617	30.535040	21.99	1.505	0.000
1601	F01618	87.312280	48.02	1.505	0.000
1601	F01619	110.231760	48.61	1.505	0.000
1601	F01620	91.646070	32.04	1.505	0.000
1601	F01621	112.137160	31.48	1.505	0.000
1601	F01622	105.295580	25.35	1.505	0.000
1601	F01623	93.471710	25.26	1.505	0.000
1601	CG1640	131.020510	79.25	1.505	0.000
M005	1601	97.027710	15.43	1.575	1.505
M005	1602	105.079625	27.10	1.575	0.100
M005	CB030	95.811990	28.66	1.505	0.000
M005	CG031	106.518780	47.52	1.505	0.000
M005	CB032	89.442510	40.06	1.505	0.000
M005	CB033	92.143800	43.79	1.505	0.000
M005	F0034	84.959270	32.22	1.505	0.000
M005	F0035	100.448640	33.97	1.505	0.000
M005	F0036	88.841650	24.34	1.505	0.000
M005	F0037	104.618500	24.94	1.505	0.000
M005	F0038	100.276310	20.74	1.505	0.000
M005	F0039	90.744320	20.34	1.505	0.000
M005	F0040	65.502930	35.99	1.505	0.000
M005	F0041	67.710140	34.35	1.505	0.000
M005	F0042	57.001750	26.55	1.505	0.000
M005	F0043	59.077440	20.87	1.505	0.000
M005	F0044	58.410080	18.76	1.505	0.000
1602	M005	103.777165	27.17	1.485	1.575
1602	1601	109.660490	34.42	1.485	0.100
1602	015	114.844050	53.90	1.485	0.000
1602	016	116.289500	54.75	1.485	0.000
1602	011	102.168010	46.12	1.485	0.000

1602	012	103.773650	45.99	1.485	0.000
1602	013	100.323130	45.35	1.485	0.100
1602	014	100.297130	45.61	1.485	0.100
1602	01b	99.278470	43.95	1.485	0.100
1602	01a	99.904440	43.13	1.485	0.000
1602	01a_bis	99.905040	43.14	1.485	0.000
1602	01e	103.245750	46.74	1.485	0.000
1602	01c	103.318980	46.16	1.485	0.000
10100	10200	95.213238	19.80	1.335	1.455
10100	M050	124.785200	24.69	1.335	0.000
10100	M010	111.512720	51.55	1.335	0.100
10100	CB60	86.042680	37.56	1.335	0.000
10100	CB61	91.357350	43.61	1.335	0.000
10100	CB62	92.364780	32.25	1.335	0.000
10100	F064	64.645480	27.39	1.335	0.000
10100	F065	64.355790	32.38	1.335	0.000
10100	F066	60.593750	34.43	1.335	0.000
10100	F067	49.304410	31.66	1.335	0.000
10100	F068	73.717780	54.96	1.335	0.000
10100	CB69	94.200390	62.90	1.335	0.000
10100	F070	51.857600	31.46	1.335	0.000
10100	F071	69.454350	31.89	1.335	0.000
10100	F072	68.081880	27.02	1.335	0.000
10100	F073	73.597120	22.89	1.335	0.000
10100	F074	88.205060	32.24	1.335	0.000
10100	F075	106.372380	32.96	1.335	0.000
10200	10100	104.787305	19.80	1.455	1.335
10200	M010	114.262020	30.05	1.455	0.100
10200	10300	91.222090	11.46	1.455	1.395
10200	CB61	101.472050	31.80	1.455	0.000
10200	CB80	107.676360	32.72	1.455	0.000
10200	CB81	98.203990	56.83	1.455	0.000
10200	CB82	92.567010	32.23	1.455	0.000
10200	F083	96.098240	33.44	1.455	0.000
10200	F084	114.413910	31.93	1.455	0.000
10200	F085	77.672660	35.16	1.455	0.000
10200	F086	56.675510	36.39	1.455	0.000
10200	F087	63.571380	37.16	1.455	0.000
10200	F088	75.986600	27.00	1.455	0.000
10300	10200	108.779740	11.46	1.395	1.455
10300	M011	92.931715	10.06	1.395	1.475
10800	10100	115.314960	35.02	1.555	0.100
10800	10200	108.739980	41.30	1.555	0.100
10800	M010	133.730372	80.68	1.555	0.100
10800	1X12_017	102.929690	72.42	1.555	0.000
10800	1X12_018	105.201040	73.53	1.555	0.000
10800	1X12_019	99.771800	34.27	1.555	0.000
10800	1X12_01F	90.961700	30.34	1.555	0.000
10800	1X12_01D	110.029060	43.55	1.555	0.000
10800	1X12_021	111.624650	50.13	1.555	0.000

Number of Measured Direction Observations (GONS) = 90

From	To	Direction	StdErr	t-T
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## Set 1

1601	1602	83.919025	11.75	-0.00
1601	M006	267.994055	5.67	0.00
1601	M005	81.593355	5.21	-0.00
1601	CB1610	25.731500	22.12	0.00
1601	CB1611	107.388720	24.34	-0.00
1601	CB1612	90.002580	11.45	-0.00
1601	CB1613	72.718510	10.80	-0.00
1601	CB1614	86.408100	7.91	-0.00
1601	F01615	117.750290	22.93	-0.00
1601	F01616	51.451460	26.30	-0.00
1601	F01617	72.420600	28.88	-0.00
1601	F01618	70.468260	16.64	-0.00
1601	F01619	70.380610	16.62	-0.00
1601	F01620	72.652200	10.88	-0.00
1601	F01621	72.668850	10.88	-0.00
1601	F01622	73.591770	8.54	-0.00
1601	F01623	73.638820	8.54	-0.00
1601	CG1640	42.816660	33.32	0.00

## Set 2

M005	1601	47.778175	5.21	0.00
M005	1602	45.990600	9.12	0.00
M005	CB030	55.679640	9.62	0.00
M005	CG031	89.107520	16.01	0.00
M005	CB032	83.700170	13.73	0.00
M005	CB033	63.538460	14.83	0.00
M005	F0034	58.039700	11.35	0.00
M005	F0035	58.047300	11.35	0.00
M005	F0036	54.033230	8.38	0.00
M005	F0037	54.048310	8.39	0.00
M005	F0038	52.149240	6.95	0.00
M005	F0039	52.131200	6.95	0.00
M005	F0040	30.977130	16.03	0.00
M005	F0041	71.914680	14.75	0.00
M005	F0042	61.501480	14.03	0.00
M005	F0043	56.741710	10.53	0.00
M005	F0044	101.318750	9.61	0.00

## Set 3

1602	M005	29.726230	9.12	-0.00
1602	1601	233.850420	11.75	0.00
1602	015	329.000390	18.93	0.00
1602	016	329.006280	19.44	0.00
1602	011	318.024630	15.41	0.00
1602	012	318.038040	15.40	0.00
1602	013	308.784020	15.13	0.00
1602	014	310.321420	15.22	0.00
1602	01b	308.947080	14.67	0.00
1602	01a	307.553730	14.40	0.00
1602	01a_bis	307.554070	14.40	0.00
1602	01e	328.619710	15.64	0.00
1602	01c	338.920190	15.44	0.00

Set 4				
10100	10200	95.712378	6.68	0.00
10100	M050	284.600410	9.55	-0.00
10100	M010	101.099550	17.75	0.00
10100	CB60	23.563910	13.12	-0.00
10100	CB61	68.348640	14.81	0.00
10100	CB62	71.965960	10.92	0.00
10100	F064	20.747560	12.39	-0.00
10100	F065	28.736200	14.72	-0.00
10100	F066	36.296690	16.84	-0.00
10100	F067	51.094640	20.41	0.00
10100	F068	57.686130	21.61	0.00
10100	CB69	55.103470	21.14	0.00
10100	F070	64.204160	18.89	0.00
10100	F071	70.856900	13.32	0.00
10100	F072	72.673170	11.53	0.00
10100	F073	75.719200	9.03	0.00
10100	F074	70.422250	11.13	0.00
10100	F075	70.181130	11.11	0.00

Set 5				
10200	10100	32.830010	6.68	-0.00
10200	M010	29.651480	10.53	-0.00
10200	10300	192.507240	3.96	0.00
10200	CB61	52.139170	10.63	-0.00
10200	CB80	54.764830	11.08	-0.00
10200	CB81	82.001030	18.97	-0.00
10200	CB82	99.945750	10.91	-0.00
10200	F083	56.428470	11.21	-0.00
10200	F084	56.532370	11.20	-0.00
10200	F085	59.194310	13.21	-0.00
10200	F086	81.240430	19.38	-0.00
10200	F087	86.445070	17.14	-0.00
10200	F088	101.433470	10.34	-0.00

Set 6				
10300	10200	21.642965	3.96	-0.00
10300	M011	204.161715	3.47	-0.00

Set 7				
10800	10100	368.549635	12.35	-0.00
10800	10200	184.392885	14.03	0.00
10800	M010	342.455490	35.60	-0.00
10800	1X12_017	60.786250	24.20	-0.00
10800	1X12_018	61.136690	24.68	-0.00
10800	1X12_019	69.474270	11.45	-0.00
10800	1X12_01F	61.655050	10.33	-0.00
10800	1X12_01D	73.152650	14.88	-0.00
10800	1X12_021	49.032170	17.26	-0.00

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Adjustment Statistical Summary  
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Iterations	=	3
Number of Stations	=	95
Number of Observations	=	276
Number of Unknowns	=	244
Number of Redundant Obs	=	32

Observation	Count	Sum Squares of StdRes	Error Factor
Coordinates	6	10.749	3.931
Directions	90	2.433	0.483
Distances	90	2.676	0.506
Zeniths	90	1.385	0.364
Total	276	17.244	0.734

Warning: The Chi-Square Test at 5.00% Level Exceeded Lower Bound  
Lower/Upper Bounds (0.756/1.243)



### Adjusted Station Information =====

#### Adjusted Coordinates (Meters)

Station	E	N	Elev	Description
M010	442807.8440	4993810.4030	424.1710	
M011	442751.0471	4993812.3651	431.0401	
m009	442685.9620	4993807.5370	435.6150	
m008	442670.5150	4993799.2280	435.1660	
m007	442726.7240	4993779.9590	431.0760	
M006	442782.8719	4993751.6830	424.0742	
m013	442812.3630	4993735.6650	421.6730	
M005	442812.3610	4993735.6670	421.6700	
m004	442855.0630	4993711.5790	421.4870	
f014	442878.4880	4993722.6720	432.0750	
f015	442878.5180	4993722.6580	432.0740	
m1004	442861.3710	4993735.4120	431.2840	
m003	442827.4510	4993762.5620	435.3420	
f001	442797.2440	4993788.8550	440.8210	
base	442788.1070	4993788.3050	444.5700	
m002	442768.8170	4993791.5130	442.4810	
f016	442881.6730	4993692.6980	417.4500	
M050	442819.5267	4993801.8930	421.3083	
1601	442797.8169	4993745.6093	422.5631	
1602	442804.0042	4993741.0400	422.3512	
CB1610	442801.7355	4993746.7270	424.2976	
CB1611	442799.8017	4993742.4853	423.1791	
CB1612	442803.6883	4993740.3368	423.1750	
CB1613	442805.3205	4993741.8896	423.8636	
CB1614	442806.7698	4993738.4395	424.0084	
F01615	442799.3589	4993741.9947	426.6890	
F01616	442801.2153	4993745.1783	426.6553	
F01617	442800.6180	4993744.2371	430.0670	

F01618	442802.7552	4993743.3751	425.1633
F01619	442802.7634	4993743.3796	423.1881
F01620	442805.2665	4993741.9261	425.1653
F01621	442805.2617	4993741.9260	422.4643
F01622	442807.2634	4993740.7640	423.1825
F01623	442807.2605	4993740.7567	425.1611
CG1640	442800.5195	4993745.6349	422.6353
CB030	442805.3114	4993741.8964	423.7950
CG031	442810.5784	4993741.0104	422.5959
CB032	442809.7580	4993741.7066	424.2762
CB033	442808.3315	4993740.2277	423.9302
F0034	442806.5920	4993741.1587	425.0934
F0035	442806.5931	4993741.1591	423.1189
F0036	442804.0743	4993742.6165	425.0911
F0037	442804.0791	4993742.6157	422.3890
F0038	442802.0935	4993743.7724	423.1182
F0039	442802.0915	4993743.7693	425.0911
F0040	442807.0478	4993737.5207	426.5640
F0041	442808.9458	4993740.7450	426.5771
F0042	442807.9497	4993740.3490	428.3306
F0043	442806.0237	4993741.4581	429.6071
F0044	442811.1376	4993745.0114	430.3915
015	442806.5333	4993745.0743	422.7049
016	442806.4680	4993744.9693	422.6224
011	442806.2171	4993746.4608	423.6366
012	442806.2198	4993746.4642	423.4883
013	442805.4352	4993746.8271	423.7059
014	442805.5653	4993746.7571	423.7085
01b	442805.4960	4993747.0073	423.8059
01a	442805.3910	4993747.1530	423.8456
01a_bis	442805.3908	4993747.1520	423.8455
01e	442807.0392	4993745.9462	423.5417
01c	442807.8375	4993745.4479	423.5312
10100	442811.3901	4993806.7635	423.8652
10200	442801.0825	4993815.6946	424.7728
CB60	442805.1069	4993803.9624	426.7337
CB61	442805.5448	4993808.4709	426.0324
CB62	442803.5890	4993809.5313	426.1981
F064	442804.8696	4993803.5036	429.7254
F065	442805.6086	4993804.7306	429.0432
F066	442806.1616	4993805.5979	429.0180
F067	442806.9740	4993806.8213	429.7162
F068	442807.2488	4993807.2487	427.0273
CB69	442807.1400	4993807.0874	425.5897
F070	442806.7320	4993807.8003	429.7035
F071	442804.9655	4993808.9177	428.7278
F072	442804.0352	4993809.4654	429.4965
F073	442802.1521	4993810.6682	429.6177
F074	442803.6701	4993809.2935	426.7234
F075	442803.6524	4993809.2669	424.3830
10300	442777.6417	4993817.5890	428.0977
CB80	442805.0808	4993808.5838	425.2389
CB81	442801.4831	4993810.9595	426.3620
CB82	442799.4564	4993807.5671	427.2004

F083	442804.8495	4993808.5653	426.7228
F084	442804.8419	4993808.5515	424.3675
F085	442804.0109	4993809.5168	428.7300
F086	442801.5299	4993811.0657	429.9943
F087	442801.1593	4993810.4338	429.6181
F088	442799.1672	4993807.1632	429.6933
10800	442805.3452	4993810.8774	424.2055
1X12_017	442803.6403	4993807.5672	425.5890
1X12_018	442803.6556	4993807.6407	425.4614
1X12_019	442800.8098	4993804.4169	425.7888
1X12_01F	442801.2315	4993803.1510	427.0122
1X12_01D	442801.5806	4993806.1243	424.7969
1X12_021	442803.8464	4993805.8726	424.7954

Adjusted Positions and Ellipsoid Heights (Meters)  
(Average Geoid Height = 0.000 Meters)

Station	Latitude	Longitude	Ellip Ht
M010	45-05-43.609540	-8-16-23.319311	424.1710
M011	45-05-43.656573	-8-16-20.720115	431.0401
m009	45-05-43.481144	-8-16-17.744544	435.6150
m008	45-05-43.207393	-8-16-17.041288	435.1660
m007	45-05-42.599402	-8-16-19.620706	431.0760
M006	45-05-41.699515	-8-16-22.201016	424.0742
m013	45-05-41.189061	-8-16-23.556771	421.6730
M005	45-05-41.189126	-8-16-23.556678	421.6700
m004	45-05-40.421011	-8-16-25.520112	421.4870
f014	45-05-40.787280	-8-16-26.587206	432.0750
f015	45-05-40.786835	-8-16-26.588584	432.0740
m1004	45-05-41.195125	-8-16-25.798903	431.2840
m003	45-05-42.065018	-8-16-24.235967	435.3420
f001	45-05-42.908216	-8-16-22.843234	440.8210
base	45-05-42.887733	-8-16-22.425455	444.5700
m002	45-05-42.986065	-8-16-21.541645	442.4810
f016	45-05-39.816934	-8-16-26.745219	417.4500
M050	45-05-43.337184	-8-16-23.857279	421.3083
1601	45-05-41.507060	-8-16-22.887226	422.5631
1602	45-05-41.360798	-8-16-23.172162	422.3512
CB1610	45-05-41.544418	-8-16-23.066032	424.2976
CB1611	45-05-41.406407	-8-16-22.979309	423.1791
CB1612	45-05-41.337919	-8-16-23.157997	423.1750
CB1613	45-05-41.388713	-8-16-23.232030	423.8636
CB1614	45-05-41.277337	-8-16-23.299751	424.0084
F01615	45-05-41.390381	-8-16-22.959255	426.6890
F01616	45-05-41.494083	-8-16-23.042872	426.6553
F01617	45-05-41.463410	-8-16-23.015931	430.0670
F01618	45-05-41.436100	-8-16-23.114063	425.1633
F01619	45-05-41.436248	-8-16-23.114436	423.1881
F01620	45-05-41.389878	-8-16-23.229544	425.1653
F01621	45-05-41.389874	-8-16-23.229326	422.4643
F01622	45-05-41.352803	-8-16-23.321376	423.1825
F01623	45-05-41.352565	-8-16-23.321246	425.1611
CG1640	45-05-41.508677	-8-16-23.010854	422.6353
CB030	45-05-41.388930	-8-16-23.231611	423.7950

CG031	45-05-41.361754	-8-16-23.472930	422.5959
CB032	45-05-41.384074	-8-16-23.435111	424.2762
CB033	45-05-41.335736	-8-16-23.370463	423.9302
F0034	45-05-41.365399	-8-16-23.290501	425.0934
F0035	45-05-41.365410	-8-16-23.290548	423.1189
F0036	45-05-41.411901	-8-16-23.174718	425.0911
F0037	45-05-41.411880	-8-16-23.174939	422.3890
F0038	45-05-41.448783	-8-16-23.083624	423.1182
F0039	45-05-41.448679	-8-16-23.083536	425.0911
F0040	45-05-41.247646	-8-16-23.312849	426.5640
F0041	45-05-41.352678	-8-16-23.398352	426.5771
F0042	45-05-41.339557	-8-16-23.352944	428.3306
F0043	45-05-41.374935	-8-16-23.264378	429.6071
F0044	45-05-41.491564	-8-16-23.496868	430.3915
015	45-05-41.492260	-8-16-23.286206	422.7049
016	45-05-41.488840	-8-16-23.283262	422.6224
011	45-05-41.537098	-8-16-23.271167	423.6366
012	45-05-41.537206	-8-16-23.271289	423.4883
013	45-05-41.548738	-8-16-23.235249	423.7059
014	45-05-41.546508	-8-16-23.241230	423.7085
01b	45-05-41.554597	-8-16-23.237956	423.8059
01a	45-05-41.559286	-8-16-23.233093	423.8456
01a_bis	45-05-41.559254	-8-16-23.233085	423.8455
01e	45-05-41.520660	-8-16-23.308991	423.5417
01c	45-05-41.504747	-8-16-23.345717	423.5312
10100	45-05-43.492637	-8-16-23.483038	423.8652
10200	45-05-43.779040	-8-16-23.007807	424.7728
CB60	45-05-43.400044	-8-16-23.196740	426.7337
CB61	45-05-43.546264	-8-16-23.214919	426.0324
CB62	45-05-43.580054	-8-16-23.125010	426.1981
F064	45-05-43.385108	-8-16-23.186070	429.7254
F065	45-05-43.425083	-8-16-23.219375	429.0432
F066	45-05-43.453345	-8-16-23.244318	429.0180
F067	45-05-43.493226	-8-16-23.280981	429.7162
F068	45-05-43.507155	-8-16-23.293380	427.0273
CB69	45-05-43.501896	-8-16-23.288468	425.5897
F070	45-05-43.524880	-8-16-23.269509	429.7035
F071	45-05-43.560572	-8-16-23.188233	428.7278
F072	45-05-43.578047	-8-16-23.145449	429.4965
F073	45-05-43.616474	-8-16-23.058807	429.6177
F074	45-05-43.572373	-8-16-23.128818	426.7234
F075	45-05-43.571506	-8-16-23.128019	424.3830
10300	45-05-43.833595	-8-16-21.934640	428.0977
CB80	45-05-43.549787	-8-16-23.193648	425.2389
CB81	45-05-43.625719	-8-16-23.028081	426.3620
CB82	45-05-43.515204	-8-16-22.936753	427.2004
F083	45-05-43.549119	-8-16-23.183074	426.7228
F084	45-05-43.548669	-8-16-23.182732	424.3675
F085	45-05-43.579708	-8-16-23.144318	428.7300
F086	45-05-43.629174	-8-16-23.030177	429.9943
F087	45-05-43.608592	-8-16-23.013482	429.6181
F088	45-05-43.502031	-8-16-22.923689	429.6933
10800	45-05-43.624185	-8-16-23.204799	424.2055
1X12_017	45-05-43.516425	-8-16-23.128164	425.5890

1X12_018	45-05-43.518811	-8-16-23.128831	425.4614
1X12_019	45-05-43.413518	-8-16-22.999967	425.7888
1X12_01F	45-05-43.372623	-8-16-23.019778	427.0122
1X12_01D	45-05-43.469069	-8-16-23.034529	424.7969
1X12_021	45-05-43.461574	-8-16-23.138289	424.7954

Convergence Angles (GONS) and Grid Factors at Stations  
(Grid Azimuth = Geodetic Azimuth - Convergence)  
(Elevation Factor Includes a 0.00 Meter Geoid Height Correction)

Station	Convergence Angle	Scale	x	Elevation	=	Combined
M010	-0.572038	0.99964022		0.99993350		0.99957374
M011	-0.572606	0.99964030		0.99993242		0.99957275
m009	-0.573256	0.99964039		0.99993171		0.99957212
m008	-0.573409	0.99964041		0.99993178		0.99957221
m007	-0.572844	0.99964033		0.99993242		0.99957278
M006	-0.572277	0.99964025		0.99993352		0.99957379
m013	-0.571979	0.99964021		0.99993389		0.99957413
M005	-0.571979	0.99964021		0.99993389		0.99957413
m004	-0.571548	0.99964015		0.99993392		0.99957410
f014	-0.571316	0.99964012		0.99993226		0.99957241
f015	-0.571315	0.99964012		0.99993226		0.99957241
m1004	-0.571489	0.99964014		0.99993239		0.99957255
m003	-0.571833	0.99964019		0.99993175		0.99957197
f001	-0.572140	0.99964023		0.99993089		0.99957115
base	-0.572231	0.99964025		0.99993030		0.99957057
m002	-0.572425	0.99964027		0.99993063		0.99957093
f016	-0.571278	0.99964011		0.99993455		0.99957469
M050	-0.571919	0.99964020		0.99993395		0.99957418
1601	-0.572126	0.99964023		0.99993375		0.99957401
1602	-0.572064	0.99964022		0.99993379		0.99957403
CB1610	-0.572087	0.99964023		0.99993348		0.99957373
CB1611	-0.572106	0.99964023		0.99993366		0.99957391
CB1612	-0.572067	0.99964022		0.99993366		0.99957391
CB1613	-0.572051	0.99964022		0.99993355		0.99957380
CB1614	-0.572036	0.99964022		0.99993353		0.99957377
F01615	-0.572110	0.99964023		0.99993311		0.99957336
F01616	-0.572092	0.99964023		0.99993311		0.99957336
F01617	-0.572098	0.99964023		0.99993258		0.99957283
F01618	-0.572077	0.99964023		0.99993335		0.99957360
F01619	-0.572077	0.99964023		0.99993365		0.99957390
F01620	-0.572051	0.99964022		0.99993335		0.99957359
F01621	-0.572051	0.99964022		0.99993377		0.99957401
F01622	-0.572031	0.99964022		0.99993366		0.99957390
F01623	-0.572031	0.99964022		0.99993335		0.99957359
CG1640	-0.572099	0.99964023		0.99993374		0.99957399
CB030	-0.572051	0.99964022		0.99993356		0.99957381
CG031	-0.571998	0.99964021		0.99993375		0.99957399
CB032	-0.572006	0.99964022		0.99993348		0.99957372
CB033	-0.572020	0.99964022		0.99993354		0.99957378
F0034	-0.572038	0.99964022		0.99993336		0.99957360
F0035	-0.572038	0.99964022		0.99993367		0.99957391
F0036	-0.572063	0.99964022		0.99993336		0.99957360

F0037	-0.572063	0.99964022	0.99993378	0.99957403
F0038	-0.572083	0.99964023	0.99993367	0.99957392
F0039	-0.572083	0.99964023	0.99993336	0.99957361
F0040	-0.572033	0.99964022	0.99993313	0.99957337
F0041	-0.572014	0.99964022	0.99993312	0.99957336
F0042	-0.572024	0.99964022	0.99993285	0.99957309
F0043	-0.572044	0.99964022	0.99993265	0.99957289
F0044	-0.571993	0.99964021	0.99993253	0.99957276
015	-0.572039	0.99964022	0.99993373	0.99957398
016	-0.572040	0.99964022	0.99993374	0.99957399
011	-0.572043	0.99964022	0.99993358	0.99957383
012	-0.572043	0.99964022	0.99993361	0.99957385
013	-0.572050	0.99964022	0.99993357	0.99957382
014	-0.572049	0.99964022	0.99993357	0.99957382
01b	-0.572050	0.99964022	0.99993356	0.99957380
01a	-0.572051	0.99964022	0.99993355	0.99957380
01a_bis	-0.572051	0.99964022	0.99993355	0.99957380
01e	-0.572034	0.99964022	0.99993360	0.99957384
01c	-0.572026	0.99964022	0.99993360	0.99957384
10100	-0.572002	0.99964021	0.99993355	0.99957379
10200	-0.572106	0.99964023	0.99993341	0.99957366
CB60	-0.572064	0.99964022	0.99993310	0.99957335
CB61	-0.572060	0.99964022	0.99993321	0.99957345
CB62	-0.572080	0.99964022	0.99993318	0.99957343
F064	-0.572066	0.99964022	0.99993263	0.99957288
F065	-0.572059	0.99964022	0.99993274	0.99957298
F066	-0.572054	0.99964022	0.99993274	0.99957299
F067	-0.572046	0.99964022	0.99993263	0.99957288
F068	-0.572043	0.99964022	0.99993305	0.99957330
CB69	-0.572044	0.99964022	0.99993328	0.99957352
F070	-0.572048	0.99964022	0.99993263	0.99957288
F071	-0.572066	0.99964022	0.99993279	0.99957303
F072	-0.572076	0.99964022	0.99993267	0.99957291
F073	-0.572095	0.99964023	0.99993265	0.99957290
F074	-0.572079	0.99964022	0.99993310	0.99957335
F075	-0.572080	0.99964022	0.99993347	0.99957372
10300	-0.572341	0.99964026	0.99993289	0.99957317
CB80	-0.572065	0.99964022	0.99993333	0.99957358
CB81	-0.572102	0.99964023	0.99993316	0.99957341
CB82	-0.572121	0.99964023	0.99993303	0.99957328
F083	-0.572067	0.99964022	0.99993310	0.99957335
F084	-0.572067	0.99964022	0.99993347	0.99957372
F085	-0.572076	0.99964022	0.99993279	0.99957303
F086	-0.572101	0.99964023	0.99993259	0.99957284
F087	-0.572105	0.99964023	0.99993265	0.99957290
F088	-0.572124	0.99964023	0.99993264	0.99957289
10800	-0.572063	0.99964022	0.99993350	0.99957374
1X12_017	-0.572079	0.99964022	0.99993328	0.99957353
1X12_018	-0.572079	0.99964022	0.99993330	0.99957355
1X12_019	-0.572107	0.99964023	0.99993325	0.99957350
1X12_01F	-0.572103	0.99964023	0.99993306	0.99957331
1X12_01D	-0.572100	0.99964023	0.99993340	0.99957365
1X12_021	-0.572077	0.99964022	0.99993340	0.99957365
Project Averages:	-0.572074	0.99964022	0.99993314	0.99957339



## Adjusted Observations and Residuals

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### Adjusted Coordinate Observations (Meters) (Stations with Partially Fixed Coordinate Components)

Station File:Line	Component	Adj Coordinate	Residual	StdErr	StdRes
M011 1:30	E	442751.0471	-0.0089	0.0100	0.9
1:30	N	4993812.3651	-0.0029	0.0100	0.3
1:30	Elev	431.0401	0.0901	0.0500	1.8
M050 1:47	E	442819.5267	-0.0363	0.0200	1.8
1:47	N	4993801.8930	-0.0360	0.0200	1.8
1:47	Elev	421.3083	-0.0087	0.0300	0.3

### Adjusted Measured Distance Observations (Meters)

File:Line	From	To	Distance	Residual	StdErr	StdRes
1:95	1601	1602	7.8629	-0.0001	0.0026	0.0
1:97	1601	M006	16.1393	0.0003	0.0025	0.1
1:99	1601	M005	17.6443	-0.0002	0.0025	0.1
1:101	1601	CB1610	4.0830	-0.0000	0.0025	0.0
1:102	1601	CB1611	3.8080	-0.0000	0.0026	0.0
1:103	1601	CB1612	7.9450	0.0000	0.0025	0.0
1:104	1601	CB1613	8.3810	-0.0000	0.0025	0.0
1:105	1601	CB1614	11.4750	0.0000	0.0025	0.0
1:106	1601	F01615	4.7250	-0.0000	0.0033	0.0
1:107	1601	F01616	4.2940	0.0000	0.0034	0.0
1:108	1601	F01617	6.7620	0.0000	0.0043	0.0
1:109	1601	F01618	5.5320	0.0000	0.0026	0.0
1:110	1601	F01619	5.4990	-0.0000	0.0025	0.0
1:111	1601	F01620	8.3860	0.0000	0.0025	0.0

1:112	1601	F01621	8.4630	-0.0000	0.0026	0.0
1:113	1601	F01622	10.6580	-0.0000	0.0025	0.0
1:114	1601	F01623	10.6780	-0.0000	0.0025	0.0
1:115	1601	CG1640	3.0600	-0.0000	0.0031	0.0
1:144	M005	1602	9.9709	0.0004	0.0025	0.2
1:145	M005	1601	17.6443	0.0003	0.0025	0.1
1:163	M005	CB030	9.4320	-0.0000	0.0025	0.0
1:164	M005	CG031	5.6650	0.0000	0.0025	0.0
1:165	M005	CB032	6.6710	-0.0000	0.0025	0.0
1:166	M005	CB033	6.1350	0.0000	0.0025	0.0
1:167	M005	F0034	8.1960	-0.0000	0.0026	0.0
1:168	M005	F0035	7.9680	-0.0000	0.0025	0.0
1:169	M005	F0036	10.9880	0.0000	0.0026	0.0
1:170	M005	F0037	10.8440	0.0000	0.0025	0.0
1:171	M005	F0038	13.0870	0.0000	0.0025	0.0
1:172	M005	F0039	13.2260	-0.0000	0.0025	0.0
1:173	M005	F0040	6.5710	0.0000	0.0032	0.0
1:174	M005	F0041	7.0040	-0.0000	0.0031	0.0
1:175	M005	F0042	8.2460	-0.0000	0.0035	0.0
1:176	M005	F0043	10.7300	-0.0000	0.0034	0.0
1:177	M005	F0044	11.8730	-0.0000	0.0035	0.0
1:203	1602	M005	9.9568	-0.0002	0.0025	0.1
1:204	1602	1601	7.7838	-0.0002	0.0025	0.1
1:218	1602	015	4.8960	0.0000	0.0026	0.0
1:219	1602	016	4.7960	-0.0000	0.0027	0.0
1:220	1602	011	5.8610	0.0000	0.0025	0.0
1:221	1602	012	5.8720	-0.0000	0.0025	0.0



1:222	1602	013	5.9640	0.0000	0.0025	0.0
1:223	1602	014	5.9290	-0.0000	0.0025	0.0
1:224	1602	01b	6.1540	-0.0000	0.0025	0.0
1:225	1602	01a	6.2710	0.0000	0.0025	0.0
1:226	1602	01a_bis	6.2700	-0.0000	0.0025	0.0
1:227	1602	01e	5.7790	-0.0000	0.0025	0.0
1:228	1602	01c	5.8520	0.0000	0.0025	0.0
1:261	10100	10200	13.6831	0.0001	0.0025	0.0
1:262	10100	M050	10.2542	0.0002	0.0029	0.1
1:263	10100	M010	5.1678	0.0008	0.0026	0.3
1:281	10100	CB60	7.0510	0.0000	0.0026	0.0
1:282	10100	CB61	6.1488	-0.0032	0.0025	1.3
1:283	10100	CB62	8.3410	-0.0000	0.0025	0.0
1:284	10100	F064	8.5830	0.0000	0.0032	0.0
1:285	10100	F065	7.2360	0.0000	0.0032	0.0
1:286	10100	F066	6.5800	0.0000	0.0034	0.0
1:287	10100	F067	6.3180	-0.0000	0.0038	0.0
1:288	10100	F068	4.5540	0.0000	0.0029	0.0
1:289	10100	CB69	4.2820	0.0000	0.0025	0.0
1:290	10100	F070	6.5630	0.0000	0.0037	0.0
1:291	10100	F071	7.6420	0.0000	0.0031	0.0
1:292	10100	F072	8.9390	0.0000	0.0031	0.0
1:293	10100	F073	10.9630	0.0000	0.0029	0.0
1:294	10100	F074	8.2690	0.0000	0.0026	0.0
1:295	10100	F075	8.1770	0.0000	0.0025	0.0
1:322	10200	10100	13.6831	0.0001	0.0025	0.0
1:323	10200	M010	8.8097	0.0007	0.0026	0.3

1:324	10200	10300	23.7527	-0.0003	0.0025	0.1
1:337	10200	CB61	8.4967	-0.0013	0.0025	0.5
1:338	10200	CB80	8.2210	-0.0000	0.0025	0.0
1:339	10200	CB81	4.7560	0.0000	0.0025	0.0
1:340	10200	CB82	8.3490	0.0000	0.0025	0.0
1:341	10200	F083	8.0820	0.0000	0.0025	0.0
1:342	10200	F084	8.2870	-0.0000	0.0026	0.0
1:343	10200	F085	7.2830	0.0000	0.0028	0.0
1:344	10200	F086	5.9860	-0.0000	0.0035	0.0
1:345	10200	F087	6.2610	-0.0000	0.0033	0.0
1:346	10200	F088	9.4090	0.0000	0.0029	0.0
1:359	10300	10200	23.7527	-0.0003	0.0025	0.1
1:360	10300	M011	27.2824	-0.0006	0.0025	0.2
1:381	10800	10100	7.5323	0.0013	0.0026	0.5
1:382	10800	10200	6.4961	0.0011	0.0025	0.4
1:383	10800	M010	2.9484	0.0002	0.0032	0.1
1:392	10800	1X12_017	3.7290	0.0000	0.0025	0.0
1:393	10800	1X12_018	3.6650	0.0000	0.0025	0.0
1:394	10800	1X12_019	7.8970	-0.0000	0.0025	0.0
1:395	10800	1X12_01F	8.8460	-0.0000	0.0025	0.0
1:396	10800	1X12_01D	6.1420	0.0000	0.0025	0.0
1:397	10800	1X12_021	5.3150	-0.0000	0.0026	0.0

#### Adjusted Zenith Observations (GONS)

File:Line	From	To	Zenith	Residual	StdErr	StdRes
1:73	1601	1602	113.185082	-0.016448	33.77	0.5
1:75	1601	M006	99.581540	-0.000845	16.86	0.1
	1601	M005	102.970804	-0.003348	15.43	0.2

1:77						
	1601	CB1610	96.419690	0.000000	66.11	0.0
1:79						
	1601	CB1611	115.000650	-0.000000	69.24	0.0
1:80						
	1601	CB1612	107.171190	0.000000	33.88	0.0
1:81						
	1601	CB1613	101.553430	-0.000000	32.29	0.0
1:82						
	1601	CB1614	100.330940	0.000000	23.63	0.0
1:83						
	1601	F01615	62.567610	-0.000000	48.78	0.0
1:84						
	1601	F01616	58.831970	0.000000	51.82	0.0
1:85						
	1601	F01617	30.535040	0.000000	21.99	0.0
1:86						
	1601	F01618	87.312280	-0.000000	48.02	0.0
1:87						
	1601	F01619	110.231760	0.000000	48.61	0.0
1:88						
	1601	F01620	91.646070	-0.000000	32.04	0.0
1:89						
	1601	F01621	112.137160	0.000000	31.48	0.0
1:90						
	1601	F01622	105.295580	-0.000000	25.35	0.0
1:91						
	1601	F01623	93.471710	-0.000000	25.26	0.0
1:92						
	1601	CG1640	131.020510	0.000000	79.25	0.0
1:93						
	M005	1601	97.029347	0.001637	15.43	0.1
1:141						
	M005	1602	105.073776	-0.005849	27.10	0.2
1:142						
	M005	CB030	95.811990	0.000000	28.66	0.0
1:147						
	M005	CG031	106.518780	-0.000000	47.52	0.0
1:148						
	M005	CB032	89.442510	0.000000	40.06	0.0
1:149						
	M005	CB033	92.143800	-0.000000	43.79	0.0
1:150						
	M005	F0034	84.959270	-0.000000	32.22	0.0
1:151						
	M005	F0035	100.448640	0.000000	33.97	0.0
1:152						
	M005	F0036	88.841650	-0.000000	24.34	0.0
1:153						
	M005	F0037	104.618500	-0.000000	24.94	0.0
1:154						
	M005	F0038	100.276310	0.000000	20.74	0.0
1:155						
	M005	F0039	90.744320	0.000000	20.34	0.0

1:156						
	M005	F0040	65.502930	-0.000000	35.99	0.0
1:157						
	M005	F0041	67.710140	0.000000	34.35	0.0
1:158						
	M005	F0042	57.001750	0.000000	26.55	0.0
1:159						
	M005	F0043	59.077440	0.000000	20.87	0.0
1:160						
	M005	F0044	58.410080	-0.000000	18.76	0.0
1:161						
	1602	M005	103.782141	0.004976	27.17	0.2
1:200						
	1602	1601	109.631418	-0.029072	34.42	0.8
1:201						
	1602	015	114.844050	-0.000000	53.90	0.0
1:206						
	1602	016	116.289500	-0.000000	54.75	0.0
1:207						
	1602	011	102.168010	-0.000000	46.12	0.0
1:208						
	1602	012	103.773650	-0.000000	45.99	0.0
1:209						
	1602	013	100.323130	-0.000000	45.35	0.0
1:210						
	1602	014	100.297130	-0.000000	45.61	0.0
1:211						
	1602	01b	99.278470	-0.000000	43.95	0.0
1:212						
	1602	01a	99.904440	-0.000000	43.13	0.0
1:213						
	1602	01a_bis	99.905040	-0.000000	43.14	0.0
1:214						
	1602	01e	103.245750	-0.000000	46.74	0.0
1:215						
	1602	01c	103.318980	-0.000000	46.16	0.0
1:216						
	10100	10200	95.214293	0.001055	19.80	0.1
1:257						
	10100	M050	124.783150	-0.002050	24.69	0.1
1:258						
	10100	M010	111.508755	-0.003965	51.55	0.1
1:259						
	10100	CB60	86.042680	-0.000000	37.56	0.0
1:265						
	10100	CB61	91.356533	-0.000817	43.61	0.0
1:266						
	10100	CB62	92.364780	0.000000	32.25	0.0
1:267						
	10100	F064	64.645480	-0.000000	27.39	0.0
1:268						
	10100	F065	64.355790	-0.000000	32.38	0.0
1:269						
	10100	F066	60.593750	-0.000000	34.43	0.0

1:270						
	10100	F067	49.304410	-0.000000	31.66	0.0
1:271						
	10100	F068	73.717780	-0.000000	54.96	0.0
1:272						
	10100	CB69	94.200390	-0.000000	62.90	0.0
1:273						
	10100	F070	51.857600	0.000000	31.46	0.0
1:274						
	10100	F071	69.454350	0.000000	31.89	0.0
1:275						
	10100	F072	68.081880	0.000000	27.02	0.0
1:276						
	10100	F073	73.597120	0.000000	22.89	0.0
1:277						
	10100	F074	88.205060	0.000000	32.24	0.0
1:278						
	10100	F075	106.372380	-0.000000	32.96	0.0
1:279						
	10200	10100	104.785824	-0.001481	19.80	0.1
1:318						
	10200	M010	114.259567	-0.002453	30.05	0.1
1:319						
	10200	10300	91.221858	-0.000232	11.46	0.0
1:320						
	10200	CB61	101.464084	-0.007966	31.80	0.3
1:326						
	10200	CB80	107.676360	-0.000000	32.72	0.0
1:327						
	10200	CB81	98.203990	-0.000000	56.83	0.0
1:328						
	10200	CB82	92.567010	-0.000000	32.23	0.0
1:329						
	10200	F083	96.098240	0.000000	33.44	0.0
1:330						
	10200	F084	114.413910	0.000000	31.93	0.0
1:331						
	10200	F085	77.672660	0.000000	35.16	0.0
1:332						
	10200	F086	56.675510	0.000000	36.39	0.0
1:333						
	10200	F087	63.571380	0.000000	37.16	0.0
1:334						
	10200	F088	75.986600	-0.000000	27.00	0.0
1:335						
	10300	10200	108.778343	-0.001397	11.46	0.1
1:356						
	10300	M011	92.932820	0.001105	10.06	0.1
1:357						
	10800	10100	115.321581	0.006621	35.02	0.2
1:377						
	10800	10200	108.726716	-0.013264	41.30	0.3
1:378						
	10800	M010	133.715021	-0.015351	80.68	0.2

1:379	10800	1X12_017	102.929690	0.000000	72.42	0.0
1:385	10800	1X12_018	105.201040	-0.000000	73.53	0.0
1:386	10800	1X12_019	99.771800	0.000000	34.27	0.0
1:387	10800	1X12_01F	90.961700	-0.000000	30.34	0.0
1:388	10800	1X12_01D	110.029060	-0.000000	43.55	0.0
1:389	10800	1X12_021	111.624650	-0.000000	50.13	0.0
1:390						

Adjusted Measured Direction Observations (GONS)

File:Line	From	To	Direction	Residual	StdErr	StdRes
	Set 1					
1:52	1601	1602	83.915597	-0.003428	11.75	0.3
1:54	1601	M006	267.994104	0.000049	5.67	0.0
1:55	1601	M005	81.593987	0.000632	5.21	0.1
1:56	1601	CB1610	25.731500	0.000000	22.12	0.0
1:57	1601	CB1611	107.388720	-0.000000	24.34	0.0
1:58	1601	CB1612	90.002580	0.000000	11.45	0.0
1:59	1601	CB1613	72.718510	0.000000	10.80	0.0
1:60	1601	CB1614	86.408100	0.000000	7.91	0.0
1:61	1601	F01615	117.750290	-0.000000	22.93	0.0
1:62	1601	F01616	51.451460	0.000000	26.30	0.0
1:63	1601	F01617	72.420600	0.000000	28.88	0.0
1:64	1601	F01618	70.468260	0.000000	16.64	0.0
1:65	1601	F01619	70.380610	-0.000000	16.62	0.0
1:66	1601	F01620	72.652200	0.000000	10.88	0.0
1:67	1601	F01621	72.668850	-0.000000	10.88	0.0
1:68	1601	F01622	73.591770	0.000000	8.54	0.0
1:69	1601	F01623	73.638820	0.000000	8.54	0.0

1:70	1601	CG1640	42.816660	0.000000	33.32	0.0
	Set 2					
1:120	M005	1601	47.780545	0.002370	5.21	0.5
1:121	M005	1602	45.983333	-0.007267	9.12	0.8
1:123	M005	CB030	55.679640	-0.000000	9.62	0.0
1:124	M005	CG031	89.107520	0.000000	16.01	0.0
1:125	M005	CB032	83.700170	-0.000000	13.73	0.0
1:126	M005	CB033	63.538460	0.000000	14.83	0.0
1:127	M005	F0034	58.039700	-0.000000	11.35	0.0
1:128	M005	F0035	58.047300	0.000000	11.35	0.0
1:129	M005	F0036	54.033230	0.000000	8.38	0.0
1:130	M005	F0037	54.048310	0.000000	8.39	0.0
1:131	M005	F0038	52.149240	0.000000	6.95	0.0
1:132	M005	F0039	52.131200	-0.000000	6.95	0.0
1:133	M005	F0040	30.977130	0.000000	16.03	0.0
1:134	M005	F0041	71.914680	0.000000	14.75	0.0
1:135	M005	F0042	61.501480	-0.000000	14.03	0.0
1:136	M005	F0043	56.741710	-0.000000	10.53	0.0
1:137	M005	F0044	101.318750	-0.000000	9.61	0.0
	Set 3					
1:183	1602	M005	29.728248	0.002018	9.12	0.2
1:184	1602	1601	233.847070	-0.003350	11.75	0.3
1:186	1602	015	329.000390	-0.000000	18.93	0.0
1:187	1602	016	329.006280	0.000000	19.44	0.0
1:188	1602	011	318.024630	-0.000000	15.41	0.0
1:189	1602	012	318.038040	0.000000	15.40	0.0
1:190	1602	013	308.784020	-0.000000	15.13	0.0

1:191	1602	014	310.321420	-0.000000	15.22	0.0
1:192	1602	01b	308.947080	-0.000000	14.67	0.0
1:193	1602	01a	307.553730	0.000000	14.40	0.0
1:194	1602	01a_bis	307.554070	0.000000	14.40	0.0
1:195	1602	01e	328.619710	-0.000000	15.64	0.0
1:196	1602	01c	338.920190	-0.000000	15.44	0.0
Set 4						
1:235	10100	10200	95.713830	0.001452	6.68	0.2
1:236	10100	M050	284.598729	-0.001681	9.55	0.2
1:237	10100	M010	101.088197	-0.011353	17.75	0.6
1:239	10100	CB60	23.563910	-0.000000	13.12	0.0
1:240	10100	CB61	68.353444	0.004804	14.81	0.3
1:241	10100	CB62	71.965960	-0.000000	10.92	0.0
1:242	10100	F064	20.747560	-0.000000	12.39	0.0
1:243	10100	F065	28.736200	-0.000000	14.72	0.0
1:244	10100	F066	36.296690	0.000000	16.84	0.0
1:245	10100	F067	51.094640	0.000000	20.41	0.0
1:246	10100	F068	57.686130	0.000000	21.61	0.0
1:247	10100	CB69	55.103470	0.000000	21.14	0.0
1:248	10100	F070	64.204160	0.000000	18.89	0.0
1:249	10100	F071	70.856900	0.000000	13.32	0.0
1:250	10100	F072	72.673170	0.000000	11.53	0.0
1:251	10100	F073	75.719200	-0.000000	9.03	0.0
1:252	10100	F074	70.422250	0.000000	11.13	0.0
1:253	10100	F075	70.181130	0.000000	11.11	0.0
Set 5						
1:301	10200	10100	32.827214	-0.002796	6.68	0.4



1:302	10200	M010	29.648939	-0.002541	10.53	0.2
1:303	10200	10300	192.507524	0.000284	3.96	0.1
1:305	10200	CB61	52.146799	0.007629	10.63	0.7
1:306	10200	CB80	54.764830	-0.000000	11.08	0.0
1:307	10200	CB81	82.001030	-0.000000	18.97	0.0
1:308	10200	CB82	99.945750	-0.000000	10.91	0.0
1:309	10200	F083	56.428470	0.000000	11.21	0.0
1:310	10200	F084	56.532370	-0.000000	11.20	0.0
1:311	10200	F085	59.194310	0.000000	13.21	0.0
1:312	10200	F086	81.240430	-0.000000	19.38	0.0
1:313	10200	F087	86.445070	-0.000000	17.14	0.0
1:314	10200	F088	101.433470	0.000000	10.34	0.0
Set 6						
1:352	10300	10200	21.642890	-0.000075	3.96	0.0
1:353	10300	M011	204.161773	0.000058	3.47	0.0
Set 7						
1:364	10800	10100	368.550588	0.000953	12.35	0.1
1:365	10800	10200	184.391981	-0.000904	14.03	0.1
1:366	10800	M010	342.453393	-0.002097	35.60	0.1
1:368	10800	1X12_017	60.786250	-0.000000	24.20	0.0
1:369	10800	1X12_018	61.136690	-0.000000	24.68	0.0
1:370	10800	1X12_019	69.474270	-0.000000	11.45	0.0
1:371	10800	1X12_01F	61.655050	0.000000	10.33	0.0
1:372	10800	1X12_01D	73.152650	-0.000000	14.88	0.0
1:373	10800	1X12_021	49.032170	0.000000	17.26	0.0

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Adjusted Azimuths (GONS) and Horizontal Distances (Meters)

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(Relative Confidence of Azimuth is in MilliGons)

From	To	Grid Azimuth	Grid Dist Grnd Dist	95% RelConfidence Azi Dist PPM
011	1602	224.67312	5.8551 5.8576	426.47 0.0060 1029.2174
012	1602	224.68653	5.8592 5.8617	426.24 0.0061 1034.0519
013	1602	215.43251	5.9614 5.9639	420.56 0.0060 1008.2527
014	1602	216.96991	5.9264 5.9289	422.48 0.0060 1014.1814
015	1602	235.64888	4.7615 4.7635	504.40 0.0067 1401.3098
016	1602	235.65477	4.6379 4.6399	515.74 0.0068 1463.4666
1601	1602	140.49555	7.6916 7.6949	165.99 0.0035 452.4373
1601	CB1610	82.31147	4.0748 4.0765	549.08 0.0061 1484.8101
1601	CB1611	163.96867	3.7012 3.7028	602.92 0.0067 1805.4926
1601	CB1612	146.58253	7.8913 7.8946	294.98 0.0062 783.8819
1601	CB1613	129.29847	8.3749 8.3785	279.76 0.0060 719.2136
1601	CB1614	142.98805	11.4700 11.4748	214.35 0.0060 524.9917
1601	CG1640	99.39662	2.7027 2.7039	820.85 0.0080 2951.8693
1601	F01615	174.33025	3.9298 3.9315	568.74 0.0083 2123.0895
1601	F01616	108.03142	3.4256 3.4270	650.27 0.0085 2473.0678
1601	F01617	129.00056	3.1191 3.1204	712.86 0.0070 2256.3121
1601	F01618	127.04822	5.4202 5.4225	417.52 0.0065 1201.3991
1601	F01619	126.96057	5.4258 5.4281	417.11 0.0063 1169.8401
1601	F01620	129.23216	8.3104 8.3139	281.69 0.0062 751.5145
1601	F01621	129.24881	8.3061 8.3097	281.82 0.0065 780.0075
1601	F01622	130.17173	10.6166 10.6211	228.29 0.0061 575.9520
1601	F01623	130.21878	10.6174 10.6219	228.28 0.0062 580.4426
1601	M005	138.17394	17.6176 17.6251	88.56 0.0030 172.8756
1601	M006	324.57406	16.1321 16.1390	95.55 0.0031 190.2579
1602	M005	136.37673	9.9350 9.9393	157.04 0.0034 344.3692
10100	10200	345.45320	13.6386	318.76 0.0033 240.4469

			13.6444			
10100	10800	338.04205	7.3120	384.97	0.0043	592.2261
			7.3152			
10100	CB60	273.30330	6.8793	483.71	0.0066	960.6250
			6.8822			
10100	CB61	318.09282	6.0896	468.62	0.0042	689.1026
			6.0922			
10100	CB62	321.70534	8.2776	449.70	0.0062	750.0687
			8.2811			
10100	CB69	304.84285	4.2624	631.38	0.0061	1435.8990
			4.2642			
10100	F064	270.48695	7.2900	471.95	0.0083	1132.0978
			7.2931			
10100	F065	278.47558	6.1285	510.54	0.0083	1348.5257
			6.1311			
10100	F066	286.03607	5.3569	548.25	0.0084	1572.5840
			5.3592			
10100	F067	300.83402	4.4165	616.69	0.0085	1919.7930
			4.4184			
10100	F068	307.42551	4.1696	640.83	0.0076	1828.9671
			4.1714			
10100	F070	313.94354	4.7721	587.02	0.0085	1786.9629
			4.7742			
10100	F071	320.59628	6.7762	486.95	0.0080	1173.9080
			6.7791			
10100	F072	322.41255	7.8355	458.76	0.0081	1027.4741
			7.8388			
10100	F073	325.45858	10.0293	423.84	0.0077	762.8134
			10.0336			
10100	F074	320.16163	8.1240	452.70	0.0065	794.5360
			8.1275			
10100	F075	319.92051	8.1326	452.53	0.0062	756.3535
			8.1361			
10100	M010	350.82757	5.0815	477.86	0.0041	811.9469
			5.0836			
10100	M050	134.33810	9.4829	427.89	0.0074	783.2191
			9.4870			
10200	10300	305.13352	23.5172	281.25	0.0044	186.6528
			23.5273			
10200	10800	153.88344	6.4324	385.17	0.0042	652.5836
			6.4351			
10200	CB61	164.77279	8.4908	362.46	0.0042	491.2271
			8.4944			
10200	CB80	167.39082	8.1578	399.32	0.0062	761.2940
			8.1613			
10200	CB81	194.62702	4.7521	549.11	0.0060	1266.5842
			4.7541			
10200	CB82	212.57175	8.2886	396.45	0.0062	747.8900
			8.2922			
10200	F083	169.05446	8.0634	401.46	0.0061	752.3469
			8.0668			
10200	F084	169.15836	8.0721	401.26	0.0066	823.3101
			8.0755			
10200	F085	171.82030	6.8367	436.32	0.0073	1068.1113

			6.8397			
10200	F086	193.86642	4.6505	557.68	0.0085	1831.7587
			4.6525			
10200	F087	199.07107	5.2614	511.76	0.0083	1577.7078
			5.2636			
10200	F088	214.05947	8.7438	387.30	0.0074	852.0269
			8.7475			
10200	M010	142.27493	8.5860	334.76	0.0042	489.9169
			8.5896			
10300	M011	287.65241	27.1029	283.73	0.0060	223.0137
			27.1144			
10800	1X12_017	230.27773	3.7235	710.76	0.0060	1620.8564
			3.7251			
10800	1X12_018	230.62817	3.6512	720.54	0.0061	1669.9479
			3.6528			
10800	1X12_019	238.96575	7.8936	482.56	0.0060	761.9189
			7.8969			
10800	1X12_01D	242.64413	6.0634	535.74	0.0063	1044.9948
			6.0659			
10800	1X12_01F	231.14653	8.7533	467.24	0.0063	717.8565
			8.7570			
10800	1X12_021	218.52364	5.2244	576.92	0.0064	1232.1565
			5.2266			
10800	M010	111.94486	2.5434	748.08	0.0045	1779.1472
			2.5445			
01a	1602	214.20222	6.2683	404.75	0.0060	958.9275
			6.2710			
01a_bis	1602	214.20256	6.2673	404.80	0.0060	959.0801
			6.2700			
01b	1602	215.59557	6.1510	410.59	0.0060	977.4690
			6.1536			
01c	1602	245.56869	5.8416	427.24	0.0060	1035.2925
			5.8440			
01e	1602	235.26820	5.7690	431.44	0.0060	1047.9993
			5.7715			
CB030	M005	146.07304	9.4076	277.68	0.0061	645.9679
			9.4116			
CB032	M005	174.09357	6.5767	366.76	0.0064	968.5879
			6.5795			
CB033	M005	153.93186	6.0857	391.61	0.0062	1021.2791
			6.0883			
CG031	M005	179.50092	5.6329	418.68	0.0062	1092.1980
			5.6353			
F0034	M005	148.43310	7.9649	314.30	0.0067	840.4885
			7.9683			
F0035	M005	148.44070	7.9644	314.32	0.0060	755.2254
			7.9678			
F0036	M005	144.42663	10.8150	252.49	0.0064	593.4161
			10.8196			
F0037	M005	144.44171	10.8109	252.56	0.0061	563.5631
			10.8155			
F0038	M005	142.54264	13.0813	224.97	0.0060	460.5616
			13.0869			
F0039	M005	142.52460	13.0809	224.98	0.0063	482.0090

			13.0865			
F0040	M005	121.37053	5.6272	419.04	0.0082	1457.4858
			5.6296			
F0041	M005	162.30808	6.1196	389.76	0.0081	1318.7330
			6.1222			
F0042	M005	151.89488	6.4328	373.62	0.0085	1324.4842
			6.4356			
F0043	M005	147.13511	8.5848	296.86	0.0085	988.1963
			8.5884			
F0044	M005	191.71215	9.4242	277.33	0.0085	902.4393
			9.4282			

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### Error Propagation

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### Station Coordinate Standard Deviations (Meters)

Station	E	N	Elev
M010	0.000000	0.000000	0.000000
M011	0.003307	0.009916	0.005838
m009	0.000000	0.000000	0.000000
m008	0.000000	0.000000	0.000000
m007	0.000000	0.000000	0.000000
M006	0.000000	0.000000	0.000000
m013	0.000000	0.000000	0.000000
M005	0.000000	0.000000	0.000000
m004	0.000000	0.000000	0.000000
f014	0.000000	0.000000	0.000000
f015	0.000000	0.000000	0.000000
m1004	0.000000	0.000000	0.000000
m003	0.000000	0.000000	0.000000
f001	0.000000	0.000000	0.000000
base	0.000000	0.000000	0.000000
m002	0.000000	0.000000	0.000000
f016	0.000000	0.000000	0.000000
M050	0.003616	0.003629	0.004618
1601	0.001218	0.001033	0.002121
1602	0.001292	0.001134	0.002348
CB1610	0.002705	0.001851	0.004737
CB1611	0.002239	0.002639	0.004593
CB1612	0.002426	0.002268	0.004714
CB1613	0.002588	0.002016	0.004750
CB1614	0.002443	0.002221	0.004758
F01615	0.002219	0.003348	0.004116
F01616	0.003646	0.001806	0.004071
F01617	0.002917	0.002075	0.004507
F01618	0.002768	0.002003	0.004636
F01619	0.002716	0.001987	0.004674
F01620	0.002659	0.002036	0.004702
F01621	0.002732	0.002060	0.004649
F01622	0.002610	0.002065	0.004736
F01623	0.002624	0.002071	0.004726
CG1640	0.003480	0.001758	0.004233
CB030	0.002166	0.002069	0.004241

CG031	0.001641	0.002432	0.004214
CB032	0.001755	0.002467	0.004162
CB033	0.002035	0.002156	0.004199
F0034	0.002270	0.002216	0.004079
F0035	0.002096	0.002055	0.004252
F0036	0.002303	0.002154	0.004160
F0037	0.002215	0.002088	0.004241
F0038	0.002259	0.002127	0.004264
F0039	0.002336	0.002178	0.004197
F0040	0.003203	0.001805	0.003587
F0041	0.002236	0.002866	0.003637
F0042	0.002638	0.002745	0.003465
F0043	0.002786	0.002631	0.003488
F0044	0.001723	0.003452	0.003484
015	0.002380	0.002662	0.004706
016	0.002392	0.002697	0.004678
011	0.002235	0.002583	0.004851
012	0.002238	0.002593	0.004844
013	0.002176	0.002646	0.004854
014	0.002183	0.002636	0.004854
01b	0.002187	0.002646	0.004854
01a	0.002186	0.002653	0.004854
01a_bis	0.002186	0.002653	0.004854
01e	0.002332	0.002482	0.004846
01c	0.002443	0.002357	0.004846
10100	0.001677	0.001567	0.002658
10200	0.001844	0.001718	0.002671
CB60	0.003270	0.002210	0.004886
CB61	0.002001	0.001785	0.003834
CB62	0.002852	0.002244	0.004975
F064	0.003755	0.002438	0.004452
F065	0.003763	0.002218	0.004446
F066	0.003834	0.002061	0.004394
F067	0.003846	0.001922	0.004376
F068	0.003500	0.001945	0.004628
CB69	0.002987	0.001926	0.004987
F070	0.003761	0.002047	0.004361
F071	0.003458	0.002216	0.004540
F072	0.003459	0.002325	0.004515
F073	0.003282	0.002539	0.004634
F074	0.002948	0.002232	0.004922
F075	0.002850	0.002218	0.004987
10300	0.002702	0.005444	0.004008
CB80	0.002323	0.002686	0.004981
CB81	0.002078	0.002968	0.005015
CB82	0.002155	0.003158	0.004984
F083	0.002289	0.002667	0.005011
F084	0.002345	0.002843	0.004887
F085	0.002352	0.003108	0.004726
F086	0.002095	0.003846	0.004370
F087	0.002065	0.003797	0.004440
F088	0.002213	0.003578	0.004692
10800	0.001769	0.001333	0.002687
1X12_017	0.002611	0.002766	0.005019

1X12_018	0.002614	0.002779	0.005006
1X12_019	0.003064	0.003004	0.005029
1X12_01F	0.003204	0.003090	0.004976
1X12_01D	0.002929	0.002931	0.004960
1X12_021	0.002709	0.002973	0.004937

Station Coordinate Error Ellipses (Meters)  
Confidence Region = 95

Station	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Elev
M010	0.000000	0.000000	0.00	0.000000
M011	0.024286	0.008056	2.19	0.011442
m009	0.000000	0.000000	0.00	0.000000
m008	0.000000	0.000000	0.00	0.000000
m007	0.000000	0.000000	0.00	0.000000
M006	0.000000	0.000000	0.00	0.000000
m013	0.000000	0.000000	0.00	0.000000
M005	0.000000	0.000000	0.00	0.000000
m004	0.000000	0.000000	0.00	0.000000
f014	0.000000	0.000000	0.00	0.000000
f015	0.000000	0.000000	0.00	0.000000
m1004	0.000000	0.000000	0.00	0.000000
m003	0.000000	0.000000	0.00	0.000000
f001	0.000000	0.000000	0.00	0.000000
base	0.000000	0.000000	0.00	0.000000
m002	0.000000	0.000000	0.00	0.000000
f016	0.000000	0.000000	0.00	0.000000
M050	0.009286	0.008426	48.79	0.009050
1601	0.003069	0.002421	125.25	0.004157
1602	0.003421	0.002451	136.75	0.004602
CB1610	0.006694	0.004423	87.45	0.009284
CB1611	0.007279	0.004332	161.10	0.009002
CB1612	0.006879	0.004332	145.02	0.009240
CB1613	0.006759	0.004335	130.02	0.009310
CB1614	0.006739	0.004460	142.18	0.009326
F01615	0.008795	0.004396	172.48	0.008067
F01616	0.008998	0.004271	109.21	0.007979
F01617	0.007677	0.004224	128.98	0.008834
F01618	0.007199	0.004257	127.52	0.009086
F01619	0.007050	0.004257	127.47	0.009160
F01620	0.006958	0.004333	129.89	0.009216
F01621	0.007168	0.004333	129.84	0.009112
F01622	0.006841	0.004423	131.09	0.009283
F01623	0.006884	0.004423	131.11	0.009262
CG1640	0.008518	0.004301	101.15	0.008296
CB030	0.006077	0.004103	146.07	0.008311
CG031	0.006152	0.003705	179.50	0.008259
CB032	0.006370	0.003789	174.09	0.008157
CB033	0.006215	0.003744	153.93	0.008231
F0034	0.006694	0.003932	148.43	0.007995
F0035	0.006015	0.003932	148.44	0.008333
F0036	0.006418	0.004289	144.43	0.008154
F0037	0.006093	0.004289	144.44	0.008312

F0038	0.006025	0.004623	142.54	0.008358
F0039	0.006305	0.004623	142.52	0.008225
F0040	0.008202	0.003704	121.37	0.007029
F0041	0.008070	0.003747	162.31	0.007128
F0042	0.008520	0.003775	151.89	0.006791
F0043	0.008483	0.004003	147.14	0.006836
F0044	0.008505	0.004105	191.71	0.006828
015	0.007113	0.005081	38.83	0.009223
016	0.007220	0.005070	38.56	0.009169
011	0.006523	0.005230	27.06	0.009507
012	0.006553	0.005231	27.02	0.009494
013	0.006538	0.005250	14.72	0.009514
014	0.006532	0.005247	16.73	0.009514
01b	0.006539	0.005275	15.14	0.009513
01a	0.006544	0.005290	13.42	0.009514
01a_bis	0.006544	0.005290	13.42	0.009514
01e	0.006535	0.005176	41.25	0.009499
01c	0.006560	0.005103	54.65	0.009498
10100	0.004176	0.003759	127.71	0.005210
10200	0.004607	0.004106	71.14	0.005235
CB60	0.008008	0.005405	97.73	0.009576
CB61	0.005591	0.003438	141.86	0.007514
CB62	0.007543	0.004689	132.15	0.009751
F064	0.009319	0.005767	86.51	0.008726
F065	0.009281	0.005308	90.42	0.008714
F066	0.009405	0.005008	95.08	0.008612
F067	0.009451	0.004628	106.59	0.008577
F068	0.008702	0.004507	113.22	0.009070
CB69	0.007440	0.004510	114.90	0.009774
F070	0.009503	0.004420	118.12	0.008547
F071	0.009004	0.004470	125.72	0.008898
F072	0.009092	0.004628	127.81	0.008848
F073	0.008753	0.005154	132.69	0.009083
F074	0.007746	0.004681	130.20	0.009648
F075	0.007503	0.004675	131.19	0.009774
10300	0.013689	0.005828	16.26	0.007855
CB80	0.007482	0.004426	159.67	0.009764
CB81	0.007362	0.004944	185.95	0.009829
CB82	0.007767	0.005220	191.68	0.009769
F083	0.007367	0.004442	160.56	0.009821
F084	0.007845	0.004455	162.11	0.009578
F085	0.008399	0.004528	166.47	0.009263
F086	0.009497	0.004973	190.11	0.008566
F087	0.009324	0.005002	194.06	0.008703
F088	0.008759	0.005416	198.81	0.009196
10800	0.004637	0.002812	129.67	0.005267
1X12_017	0.006774	0.006387	192.97	0.009837
1X12_018	0.006802	0.006397	199.48	0.009812
1X12_019	0.008141	0.006635	146.86	0.009857
1X12_01F	0.008515	0.006798	144.76	0.009753
1X12_01D	0.007371	0.006966	150.42	0.009721
1X12_021	0.007403	0.006489	175.11	0.009676

Relative Error Ellipses (Meters)



Confidence Region = 95

Stations From	To	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Vertical
011	1602	0.006026	0.003922	24.67	0.008319
012	1602	0.006059	0.003923	24.69	0.008304
013	1602	0.006011	0.003938	15.43	0.008326
014	1602	0.006010	0.003933	16.97	0.008326
015	1602	0.006672	0.003773	35.65	0.007993
016	1602	0.006787	0.003757	35.65	0.007930
1601	1602	0.003482	0.002001	137.59	0.004537
1601	CB1610	0.006050	0.003514	82.31	0.008302
1601	CB1611	0.006682	0.003505	163.97	0.007984
1601	CB1612	0.006186	0.003656	146.58	0.008252
1601	CB1613	0.006023	0.003680	129.30	0.008331
1601	CB1614	0.006022	0.003862	142.99	0.008348
1601	CG1640	0.007978	0.003485	99.40	0.007179
1601	F01615	0.008343	0.003511	174.33	0.006913
1601	F01616	0.008472	0.003499	108.03	0.006811
1601	F01617	0.007038	0.003493	129.00	0.007795
1601	F01618	0.006512	0.003555	127.05	0.008080
1601	F01619	0.006347	0.003555	126.96	0.008163
1601	F01620	0.006245	0.003677	129.23	0.008225
1601	F01621	0.006479	0.003677	129.25	0.008109
1601	F01622	0.006115	0.003807	130.17	0.008300
1601	F01623	0.006163	0.003807	130.22	0.008277
1601	M005	0.003069	0.002421	125.25	0.004157
1601	M006	0.003069	0.002421	125.25	0.004157
1602	M005	0.003421	0.002451	136.75	0.004602
10100	10200	0.006830	0.003278	46.60	0.004389
10100	10800	0.004528	0.004219	197.59	0.005239
10100	CB60	0.006608	0.005227	73.30	0.008035
10100	CB61	0.004545	0.004129	192.25	0.006215
10100	CB62	0.006209	0.005847	121.71	0.008243
10100	CB69	0.006120	0.004227	104.84	0.008269
10100	F064	0.008253	0.005404	70.49	0.007001
10100	F065	0.008264	0.004915	78.48	0.006985
10100	F066	0.008424	0.004613	86.04	0.006858
10100	F067	0.008479	0.004278	100.83	0.006813
10100	F068	0.007626	0.004197	107.43	0.007425
10100	F070	0.008528	0.004400	113.94	0.006775
10100	F071	0.007955	0.005183	120.60	0.007214
10100	F072	0.008051	0.005646	122.41	0.007152
10100	F073	0.007650	0.006677	125.46	0.007441
10100	F074	0.006455	0.005777	120.16	0.008120
10100	F075	0.006151	0.005781	119.92	0.008270
10100	M010	0.004176	0.003759	127.71	0.005210
10100	M050	0.007427	0.006374	134.65	0.007460
10200	10300	0.010390	0.004389	5.37	0.005875
10200	10800	0.004427	0.003629	116.47	0.005266
10200	CB61	0.004942	0.004043	88.28	0.006239
10200	CB80	0.006211	0.005117	167.39	0.008241
10200	CB81	0.006019	0.004099	194.63	0.008318
10200	CB82	0.006199	0.005162	12.57	0.008247

10200	F083	0.006066	0.005085	169.05	0.008309
10200	F084	0.006646	0.005088	169.16	0.008021
10200	F085	0.007302	0.004686	171.82	0.007642
10200	F086	0.008519	0.004074	193.87	0.006780
10200	F087	0.008301	0.004230	199.07	0.006952
10200	F088	0.007450	0.005319	14.06	0.007561
10200	M010	0.004607	0.004106	71.14	0.005235
10300	M011	0.012085	0.006033	185.43	0.008380
10800	1X12_017	0.006035	0.004157	30.28	0.008308
10800	1X12_018	0.006097	0.004133	30.63	0.008279
10800	1X12_019	0.006014	0.005983	38.97	0.008333
10800	1X12_01D	0.006336	0.005103	42.64	0.008171
10800	1X12_01F	0.006424	0.006284	131.15	0.008209
10800	1X12_021	0.006437	0.004735	18.52	0.008117
10800	M010	0.004637	0.002812	129.67	0.005267
01a	1602	0.006011	0.003985	14.20	0.008327
01a_bis	1602	0.006011	0.003985	14.20	0.008327
01b	1602	0.006012	0.003967	15.60	0.008326
01c	1602	0.006048	0.003920	45.57	0.008309
01e	1602	0.006046	0.003910	35.27	0.008309
CB030	M005	0.006077	0.004103	146.07	0.008311
CB032	M005	0.006370	0.003789	174.09	0.008157
CB033	M005	0.006215	0.003744	153.93	0.008231
CG031	M005	0.006152	0.003705	179.50	0.008259
F0034	M005	0.006694	0.003932	148.43	0.007995
F0035	M005	0.006015	0.003932	148.44	0.008333
F0036	M005	0.006418	0.004289	144.43	0.008154
F0037	M005	0.006093	0.004289	144.44	0.008312
F0038	M005	0.006025	0.004623	142.54	0.008358
F0039	M005	0.006305	0.004623	142.52	0.008225
F0040	M005	0.008202	0.003704	121.37	0.007029
F0041	M005	0.008070	0.003747	162.31	0.007128
F0042	M005	0.008520	0.003775	151.89	0.006791
F0043	M005	0.008483	0.004003	147.14	0.006836
F0044	M005	0.008505	0.004105	191.71	0.006828

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 00000014 Project Option Settings  
02 00000034 Instrument Standard Error Settings  
03 00000036 Project Default Instrument  
01 00000050 Summary of Unadjusted Input Observations  
02 00000053 Entered Stations  
03 00000055 Fixed Coordinates  
03 00000073 Partially Fixed Coordinates  
02 00000080 Measured Distance Observations  
02 00000174 Zenith Observations  
02 00000268 Measured Direction Observations

01 00000376 Adjustment Statistical Summary  
01 00000399 Adjusted Station Information  
02 00000402 Adjusted Coordinates  
02 00000501 Adjusted Positions and Ellipsoid Heights  
02 00000601 Convergence Angles and Grid Factors at Stations  
01 00000704 Adjusted Observations and Residuals  
02 00000707 Adjusted Coordinate Observations  
02 00000718 Adjusted Measured Distance Observations  
02 00000812 Adjusted Zenith Observations  
02 00000906 Adjusted Measured Direction Observations  
01 00001014 Adjusted Azimuths and Horizontal Distances  
01 00001191 Error Propagation  
02 00001194 Station Coordinate Standard Deviations  
02 00001293 Station Coordinate Error Ellipses  
02 00001394 Relative Error Ellipses  
01 00001484 End of File  
00018401  
STAR\*NET  
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