

report starnet rete cava
MicroSurvey STAR*NET-PRO Version 7, 2, 2, 7
Run Date: Fri Mar 09 2018 14:13:14

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

Project Name CAVA
Project Folder F:\TEAM_DIRECT_BARATTI2017\RETE MARKER
Data File List 1. cava.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 : 90.0000 (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 : 0.001000; 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 : 3.000000 MilliGons
Elevation Differences (Constant) : 0.015240 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
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Number of Entered Stations (Meters) = 2

Fixed Stations Description	E	N	Elev
3000	622613.5810	4759835.8270	99.0080
Partially Fixed Description	E	N	Elev
	StdErr	StdErr	StdErr
4000	622637.2150	4759831.6510	97.8480
	0.0020	0.0020	0.0500

Number of Measured Distance Observations (Meters) = 57

From Type	To	Distance	StdErr	HI	HT	Comb Grid
5000 S	6000	15.4950	0.0026	1.535	1.605	0.9997556
5000 S	4000	27.9144	0.0025	1.535	1.549	0.9997554
4000 S	5000	27.9140	0.0025	1.555	1.530	0.9997554
4000 S	3000	24.0266	0.0025	1.555	1.545	0.9997555
3000 S	4000	24.0260	0.0025	1.550	1.549	0.9997555
6000 S	5000	15.4920	0.0026	1.605	1.535	0.9997556
5000 S	CL001	3.6875	0.0030	1.535	0.000	0.9997554
5000 S	CL002	12.7980	0.0029	1.535	0.000	0.9997556
5000 S	CL003	13.3366	0.0027	1.535	0.000	0.9997555
5000 S	CL004	55.4768	0.0025	1.535	0.000	0.9997550
5000 S	CL005	51.3758	0.0025	1.535	0.000	0.9997553
5000 S	CA006	22.7887	0.0025	1.535	0.000	0.9997555
4000 S	CL10	25.2672	0.0025	1.555	0.000	0.9997556
4000 S	CL11	24.1064	0.0025	1.555	0.000	0.9997558
4000 S	CL12	18.1046	0.0025	1.555	0.000	0.9997557
4000 S	CL13	18.0711	0.0025	1.555	0.000	0.9997557
4000 S	CL14	19.5026	0.0025	1.555	0.000	0.9997557
4000 S	CL15	19.5578	0.0026	1.555	0.000	0.9997558

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4000	CL16	19.4629	0.0025	1.555	0.000	0.9997557	
S							
4000	CL17	20.0927	0.0025	1.555	0.000	0.9997557	
S							
4000	CL18	20.3549	0.0025	1.555	0.000	0.9997556	
S							
4000	CA19	20.5693	0.0025	1.555	1.300	0.9997556	
S							
4000	CA20	8.0812	0.0025	1.555	1.300	0.9997555	
S							
4000	CA21	3.0765	0.0025	1.555	1.300	0.9997555	
S							
4000	CA22	10.4882	0.0025	1.555	1.300	0.9997556	
S							
4000	CA23	18.3882	0.0025	1.555	1.300	0.9997555	
S							
4000	CA24	27.8536	0.0025	1.555	1.300	0.9997555	
S							
4000	CA25	38.7118	0.0025	1.555	1.300	0.9997553	
S							
4000	CA26	15.3247	0.0026	1.555	1.500	0.9997559	
S							
4000	CL27	25.0460	0.0025	1.555	0.000	0.9997554	
S							
3000	CL50	25.5790	0.0025	1.550	0.000	0.9997552	
S							
3000	CL51	21.9190	0.0025	1.550	0.000	0.9997550	
S							
3000	CL52	14.8120	0.0025	1.550	0.000	0.9997552	
S							
3000	CL53	19.6000	0.0027	1.550	0.000	0.9997547	
S							
3000	CL54	14.9580	0.0026	1.550	0.000	0.9997549	
S							
3000	CL55	10.4320	0.0025	1.550	0.000	0.9997552	
S							
3000	CL56	14.9850	0.0027	1.550	0.000	0.9997549	
S							
3000	CL57	16.0220	0.0027	1.550	0.000	0.9997549	
S							
3000	CL58	18.0920	0.0029	1.550	0.000	0.9997547	
S							
3000	CL59	12.4770	0.0025	1.550	0.000	0.9997552	
S							
3000	CL60	14.7830	0.0025	1.550	0.000	0.9997550	
S							
3000	CL61	18.5010	0.0026	1.550	0.000	0.9997549	
S							
3000	CL62	14.7550	0.0025	1.550	0.000	0.9997552	
S							
3000	CL63	22.8740	0.0025	1.550	0.000	0.9997550	
S							
3000	CL64	15.6390	0.0025	1.550	0.000	0.9997551	

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S						
3000	CL65	18.5210	0.0025	1.550	0.000	0.9997550
S						
3000	CL66	25.5260	0.0026	1.550	0.000	0.9997547
S						
3000	CL67	21.8870	0.0026	1.550	0.000	0.9997549
S						
3000	CL68	24.6260	0.0025	1.550	0.000	0.9997549
S						
3000	CL69	25.0150	0.0025	1.550	0.000	0.9997550
S						
3000	CL70	26.9230	0.0025	1.550	0.000	0.9997549
S						
3000	CL71	21.8670	0.0025	1.550	0.000	0.9997550
S						
3000	CL72	11.3010	0.0025	1.550	0.000	0.9997553
S						
3000	CL73	10.4580	0.0026	1.550	0.000	0.9997553
S						
3000	CL74	7.7360	0.0028	1.550	0.000	0.9997554
S						
3000	CL75	9.7300	0.0026	1.550	0.000	0.9997553
S						
3000	CL76	11.0490	0.0025	1.550	0.000	0.9997553
S						

Number of Zenith Observations (GONS) = 57

From	To	Zenith	StdErr	HI	HT
5000	6000	113.956800	17.33	1.535	1.605
5000	4000	103.557000	10.12	1.535	1.549
4000	5000	96.469150	10.12	1.555	1.530
4000	3000	97.002650	11.62	1.555	1.545
3000	4000	103.031300	11.62	1.550	1.549
6000	5000	86.117000	17.33	1.605	1.535
5000	CL001	128.492900	66.95	1.535	0.000
5000	CL002	125.397700	19.87	1.535	0.000
5000	CL003	117.572300	19.81	1.535	0.000
5000	CL004	98.061900	5.72	1.535	0.000
5000	CL005	101.328300	6.05	1.535	0.000
5000	CA006	109.097500	12.12	1.535	0.000
4000	CL10	103.325000	11.09	1.555	0.000
4000	CL11	109.257800	11.50	1.555	0.000
4000	CL12	108.891700	15.09	1.555	0.000
4000	CL13	108.891600	15.12	1.555	0.000
4000	CL14	107.424900	14.09	1.555	0.000
4000	CL15	113.862200	13.85	1.555	0.000
4000	CL16	108.595800	14.09	1.555	0.000
4000	CL17	106.246500	13.72	1.555	0.000
4000	CL18	103.767400	13.59	1.555	0.000
4000	CA19	102.403600	13.46	1.555	1.300
4000	CA20	103.199500	33.53	1.555	1.300
4000	CA21	102.417700	87.81	1.555	1.300

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4000	CA22	100.607500	25.93	1.555	1.300
4000	CA23	98.825900	14.99	1.555	1.300
4000	CA24	97.480100	10.15	1.555	1.300
4000	CA25	95.967800	7.58	1.555	1.300
4000	CA26	114.274000	17.50	1.555	1.500
4000	CL27	98.996600	11.19	1.555	0.000
3000	CL50	100.737400	10.98	1.550	0.000
3000	CL51	93.898400	12.64	1.550	0.000
3000	CL52	102.827100	18.47	1.550	0.000
3000	CL53	83.139400	13.69	1.550	0.000
3000	CL54	87.108500	17.99	1.550	0.000
3000	CL55	102.547200	26.05	1.550	0.000
3000	CL56	84.045000	17.78	1.550	0.000
3000	CL57	81.368900	16.50	1.550	0.000
3000	CL58	74.777900	14.23	1.550	0.000
3000	CL59	99.883600	21.86	1.550	0.000
3000	CL60	89.915100	18.32	1.550	0.000
3000	CL61	85.688000	14.59	1.550	0.000
3000	CL62	98.750800	18.55	1.550	0.000
3000	CL63	91.124000	12.09	1.550	0.000
3000	CL64	95.702100	17.50	1.550	0.000
3000	CL65	91.731600	14.79	1.550	0.000
3000	CL66	85.300400	10.76	1.550	0.000
3000	CL67	88.388100	12.53	1.550	0.000
3000	CL68	91.336300	11.29	1.550	0.000
3000	CL69	96.133500	11.19	1.550	0.000
3000	CL70	92.068500	10.41	1.550	0.000
3000	CL71	96.493400	12.70	1.550	0.000
3000	CL72	107.306200	23.95	1.550	0.000
3000	CL73	112.363000	25.58	1.550	0.000
3000	CL74	121.329300	33.34	1.550	0.000
3000	CL75	114.814400	27.27	1.550	0.000
3000	CL76	107.666100	24.48	1.550	0.000

Number of Measured Direction Observations (GONS) = 56

From	To	Direction	StdErr	t-T
Set 1				
5000	6000	214.767400	6.04	-0.01
5000	4000	43.052450	3.38	0.02
5000	CL001	332.580100	27.11	0.00
5000	CL002	395.190400	7.70	0.01
5000	CL003	7.582100	7.09	0.01
5000	CL004	55.392700	1.91	0.04
5000	CL005	62.350300	2.02	0.03
5000	CA006	58.501500	4.12	0.02
Set 2				
4000	5000	143.583600	3.38	-0.02
4000	3000	21.389850	3.88	-0.00
4000	CL10	155.991200	3.71	-0.02
4000	CL11	164.088500	3.91	-0.02

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4000	CL12	169.381400	5.12	-0.01
4000	CL13	175.870600	5.13	-0.01
4000	CL14	180.300400	4.76	-0.01
4000	CL15	184.376700	4.82	-0.01
4000	CL16	185.820700	4.78	-0.01
4000	CL17	192.784600	4.61	-0.01
4000	CL18	195.860900	4.54	-0.00
4000	CA19	137.486900	4.49	-0.02
4000	CA20	96.724500	11.20	-0.01
4000	CA21	340.000800	29.31	0.00
4000	CA22	19.690200	8.64	-0.00
4000	CA23	381.949800	5.00	0.01
4000	CA24	18.640900	3.39	-0.00
4000	CA25	39.112700	2.54	-0.02
4000	CA26	169.369200	6.11	-0.01
4000	CL27	7.414600	3.73	0.00

Set 3

3000	4000	0.004800	3.88	0.00
3000	CL50	63.839000	3.66	0.02
3000	CL51	85.615900	4.25	0.02
3000	CL52	89.806900	6.17	0.01
3000	CL53	112.357500	4.86	0.02
3000	CL54	140.351000	6.23	0.01
3000	CL55	141.184500	8.70	0.01
3000	CL56	161.879500	6.28	0.01
3000	CL57	164.788900	5.95	0.01
3000	CL58	163.291500	5.49	0.01
3000	CL59	179.714800	7.29	0.00
3000	CL60	192.094400	6.25	-0.00
3000	CL61	197.478100	5.09	-0.00
3000	CL62	211.266300	6.19	-0.00
3000	CL63	212.335900	4.10	-0.01
3000	CL64	220.780400	5.86	-0.01
3000	CL65	226.612900	5.00	-0.01
3000	CL66	227.322300	3.76	-0.01
3000	CL67	234.227000	4.30	-0.01
3000	CL68	247.994400	3.82	-0.02
3000	CL69	257.500000	3.74	-0.02
3000	CL70	260.696200	3.52	-0.02
3000	CL71	265.142100	4.24	-0.02
3000	CL72	60.140200	8.08	0.01
3000	CL73	75.049900	8.83	0.01
3000	CL74	70.987300	12.37	0.01
3000	CL75	96.291000	9.56	0.01
3000	CL76	110.838100	8.27	0.01

Adjustment Statistical Summary

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Iterations = 2

Number of Stations = 55

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Number of Observations = 173
 Number of Unknowns = 165
 Number of Redundant Obs = 8

Observation	Count	Sum Squares of StdRes	Error Factor
Coordinates	3	3.619	5.108
Directions	56	0.000	0.000
Distances	57	3.434	1.141
Zeniths	57	9.127	1.861
Total	173	16.180	1.422

The Chi-Square Test at 5.00% Level Passed
 Lower/Upper Bounds (0.522/1.480)

Adjusted Station Information
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Adjusted Coordinates (Meters)

Station	E	N	Elev	Description
3000	622613.5810	4759835.8270	99.0080	
4000	622637.2113	4759831.6516	97.8665	
5000	622651.1412	4759855.7840	99.4391	
6000	622652.3376	4759870.8575	96.0084	
CL001	622654.2528	4759854.6163	99.3783	
CL002	622653.8096	4759844.2998	96.0028	
CL003	622651.5729	4759842.9626	97.3395	
CL004	622614.6972	4759814.0089	102.6630	
CL005	622613.3636	4759821.0005	99.9025	
CA006	622635.5047	4759839.5346	97.7287	
CL10	622653.8151	4759850.6436	98.1025	
CL11	622655.0570	4759847.4684	95.9283	
CL12	622651.5660	4759842.3853	96.9011	
CL13	622652.5552	4759840.8519	96.9058	
CL14	622654.4721	4759840.4313	97.1521	
CL15	622654.7468	4759839.2005	95.1965	
CL16	622655.0894	4759838.8719	96.8016	
CL17	622656.4544	4759837.0694	97.4532	
CL18	622657.0085	4759836.2060	98.2177	
CA19	622645.7356	4759850.3498	97.3451	
CA20	622635.5091	4759839.5391	97.7156	
CA21	622635.8270	4759828.9075	98.0047	
CA22	622626.8411	4759833.1998	98.0214	
CA23	622620.6179	4759823.7457	98.4607	
CA24	622609.6274	4759835.3059	99.2238	
CA25	622602.4871	4759848.5660	100.5719	
CA26	622649.1725	4759840.5992	94.5142	
CL27	622612.1995	4759830.5345	99.8163	
CL50	622623.3785	4759812.2074	100.2618	
CL51	622614.6958	4759814.0425	102.6556	

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CL52	622613.3635	4759821.0348	99.9005
CL53	622606.7611	4759818.1875	105.6885
CL54	622602.9848	4759825.7123	103.5663
CL55	622605.9493	4759828.7308	100.1407
CL56	622600.3527	4759829.8563	104.2744
CL57	622599.3283	4759830.1627	105.1803
CL58	622598.2235	4759829.3013	107.5398
CL59	622601.2359	4759834.0391	100.5808
CL60	622599.0054	4759836.5656	102.8901
CL61	622595.7145	4759838.2574	104.6823
CL62	622599.7357	4759840.9090	100.8475
CL63	622592.4555	4759843.9864	103.7369
CL64	622599.9003	4759843.3227	101.6130
CL65	622598.3537	4759846.0855	102.9568
CL66	622593.1338	4759849.9358	106.3998
CL67	622597.2965	4759849.8935	104.5281
CL68	622598.9732	4759855.3615	103.8990
CL69	622601.7718	4759857.8198	102.0764
CL70	622602.1431	4759859.9616	103.9037
CL71	622605.6319	4759856.1566	101.7619
CL72	622618.4762	4759825.7268	99.2639
CL73	622615.7908	4759825.8089	98.5398
CL74	622615.6060	4759828.8092	98.0144
CL75	622612.4803	4759826.4258	98.3142
CL76	622609.8716	4759825.5071	99.2307

Adjusted Positions and Ellipsoid Heights (Meters)
(Average Geoid Height = 90.000 Meters)

Station	Latitude	Longitude	Ellip Ht
3000	42-58-52.695219	-10-30-13.819049	189.0080
4000	42-58-52.546200	-10-30-14.858760	187.8665
5000	42-58-53.320180	-10-30-15.492676	189.4391
6000	42-58-53.807976	-10-30-15.557397	186.0084
CL001	42-58-53.280533	-10-30-15.629095	189.3783
CL002	42-58-52.946461	-10-30-15.601382	186.0028
CL003	42-58-52.904424	-10-30-15.501599	187.3395
CL004	42-58-51.987509	-10-30-13.851081	192.6630
CL005	42-58-52.214859	-10-30-13.797742	189.9025
CA006	42-58-52.802655	-10-30-14.789659	187.7287
CL10	42-58-53.152044	-10-30-15.606636	188.1025
CL11	42-58-53.048423	-10-30-15.658943	185.9283
CL12	42-58-52.885719	-10-30-15.500836	186.9011
CL13	42-58-52.835451	-10-30-15.543289	186.9058
CL14	42-58-52.820710	-10-30-15.627565	187.1521
CL15	42-58-52.780663	-10-30-15.638717	185.1965
CL16	42-58-52.769816	-10-30-15.653580	186.8016
CL17	42-58-52.710610	-10-30-15.712402	187.4532
CL18	42-58-52.682309	-10-30-15.736179	188.2177
CA19	42-58-53.147211	-10-30-15.249787	187.3451
CA20	42-58-52.802797	-10-30-14.789859	187.7156
CA21	42-58-52.458074	-10-30-14.795488	188.0047
CA22	42-58-52.602386	-10-30-14.402255	188.0214

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CA23	42-58-52.299615	-10-30-14.120104	188.4607
CA24	42-58-52.680624	-10-30-13.644129	189.2238
CA25	42-58-53.114490	-10-30-13.339442	190.5719
CA26	42-58-52.829224	-10-30-15.393780	184.5142
CL27	42-58-52.524507	-10-30-13.753890	189.8163
CL50	42-58-51.924089	-10-30-14.232835	190.2618
CL51	42-58-51.988595	-10-30-13.851046	192.6556
CL52	42-58-52.215972	-10-30-13.797764	189.9005
CL53	42-58-52.127528	-10-30-13.504093	195.6885
CL54	42-58-52.373577	-10-30-13.343356	193.5663
CL55	42-58-52.469676	-10-30-13.476591	190.1407
CL56	42-58-52.509399	-10-30-13.230455	194.2744
CL57	42-58-52.519921	-10-30-13.185481	195.1803
CL58	42-58-52.492647	-10-30-13.136034	197.5398
CL59	42-58-52.644439	-10-30-13.272739	190.5808
CL60	42-58-52.727610	-10-30-13.176285	192.8901
CL61	42-58-52.784343	-10-30-13.032367	194.6823
CL62	42-58-52.867942	-10-30-13.211949	190.8475
CL63	42-58-52.971897	-10-30-12.893043	193.7369
CL64	42-58-52.946068	-10-30-13.221124	191.6130
CL65	42-58-53.036500	-10-30-13.155039	192.9568
CL66	42-58-53.164307	-10-30-12.927681	196.3998
CL67	42-58-53.160521	-10-30-13.111385	194.5281
CL68	42-58-53.336752	-10-30-13.189711	193.8990
CL69	42-58-53.414794	-10-30-13.315180	192.0764
CL70	42-58-53.483989	-10-30-13.333259	193.9037
CL71	42-58-53.358658	-10-30-13.484246	191.7619
CL72	42-58-52.365061	-10-30-14.027136	189.2639
CL73	42-58-52.369279	-10-30-13.908671	188.5398
CL74	42-58-52.466618	-10-30-13.902883	188.0144
CL75	42-58-52.391190	-10-30-13.763037	188.3142
CL76	42-58-52.362931	-10-30-13.647170	189.2307

Convergence Angles (GONS) and Grid Factors at Stations
 (Grid Azimuth = Geodetic Azimuth - Convergence)
 (Elevation Factor Includes a 90.00 Meter Geoid Height
 Correction)

Station	Convergence Angle	----- Factors ----- Scale x Elevation =	
Combined			
3000	1.139315	0.99978495	0.99997036
0.99975532			
4000	1.139533	0.99978502	0.99997054
0.99975557			
5000	1.139671	0.99978506	0.99997029
0.99975536			
6000	1.139688	0.99978507	0.99997083
0.99975590			
CL001	1.139700	0.99978507	0.99997030
0.99975538			
CL002	1.139692	0.99978507	0.99997083
0.99975591			

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CL003	1.139671	0.99978507	0.99997062
0.99975569			
CL004	1.139318	0.99978495	0.99996979
0.99975475			
CL005	1.139308	0.99978495	0.99997022
0.99975518			
CA006	1.139520	0.99978502	0.99997056
0.99975558			
CL10	1.139694	0.99978507	0.99997050
0.99975558			
CL11	1.139705	0.99978508	0.99997084
0.99975593			
CL12	1.139671	0.99978507	0.99997069
0.99975576			
CL13	1.139679	0.99978507	0.99997069
0.99975576			
CL14	1.139697	0.99978507	0.99997065
0.99975573			
CL15	1.139699	0.99978507	0.99997096
0.99975604			
CL16	1.139702	0.99978508	0.99997071
0.99975579			
CL17	1.139714	0.99978508	0.99997060
0.99975569			
CL18	1.139719	0.99978508	0.99997048
0.99975557			
CA19	1.139619	0.99978505	0.99997062
0.99975567			
CA20	1.139520	0.99978502	0.99997056
0.99975559			
CA21	1.139520	0.99978502	0.99997052
0.99975554			
CA22	1.139438	0.99978499	0.99997051
0.99975551			
CA23	1.139376	0.99978497	0.99997045
0.99975542			
CA24	1.139279	0.99978494	0.99997033
0.99975527			
CA25	1.139217	0.99978492	0.99997011
0.99975504			
CA26	1.139648	0.99978506	0.99997106
0.99975613			
CL27	1.139301	0.99978495	0.99997023
0.99975519			
CL50	1.139398	0.99978498	0.99997016
0.99975515			
CL51	1.139318	0.99978495	0.99996979
0.99975475			
CL52	1.139308	0.99978495	0.99997022
0.99975518			
CL53	1.139246	0.99978493	0.99996931
0.99975425			
CL54	1.139213	0.99978492	0.99996965

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0.99975457			
CL55	1.139242	0.99978493	0.99997018
0.99975512			
CL56	1.139190	0.99978491	0.99996953
0.99975445			
CL57	1.139181	0.99978491	0.99996939
0.99975431			
CL58	1.139170	0.99978490	0.99996902
0.99975393			
CL59	1.139200	0.99978491	0.99997011
0.99975503			
CL60	1.139180	0.99978491	0.99996975
0.99975466			
CL61	1.139150	0.99978490	0.99996947
0.99975437			
CL62	1.139189	0.99978491	0.99997007
0.99975499			
CL63	1.139122	0.99978489	0.99996962
0.99975451			
CL64	1.139191	0.99978491	0.99996995
0.99975487			
CL65	1.139178	0.99978490	0.99996974
0.99975465			
CL66	1.139131	0.99978489	0.99996920
0.99975410			
CL67	1.139169	0.99978490	0.99996949
0.99975440			
CL68	1.139187	0.99978491	0.99996959
0.99975451			
CL69	1.139214	0.99978492	0.99996988
0.99975480			
CL70	1.139218	0.99978492	0.99996959
0.99975452			
CL71	1.139249	0.99978493	0.99996993
0.99975486			
CL72	1.139357	0.99978497	0.99997032
0.99975529			
CL73	1.139332	0.99978496	0.99997043
0.99975540			
CL74	1.139332	0.99978496	0.99997052
0.99975548			
CL75	1.139302	0.99978495	0.99997047
0.99975542			
CL76	1.139277	0.99978494	0.99997033
0.99975527			
Project Averages:	1.139397	0.99978498	0.99997019
0.99975518			

Adjusted Observations and Residuals
=====

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

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Station	Component	Adj Coordinate	Residual	StdErr
StdRes File:Line				
4000	E	622637.2113	-0.0037	0.0020
1.8 1:29				
	N	4759831.6516	0.0006	0.0020
0.3				
	Elev	97.8665	0.0185	0.0500
0.4				

Adjusted Measured Distance Observations (Meters)

	From	To	Distance	Residual	StdErr
StdRes File:Line					
	5000	6000	15.4935	-0.0015	0.0026
0.6 1:118					
	5000	4000	27.9145	0.0001	0.0025
0.0 1:120					
	4000	5000	27.9139	-0.0001	0.0025
0.0 1:123					
	4000	3000	24.0289	0.0023	0.0025
0.9 1:125					
	3000	4000	24.0294	0.0034	0.0025
1.4 1:128					
	6000	5000	15.4935	0.0015	0.0026
0.6 1:132					
	5000	CL001	3.6875	-0.0000	0.0030
0.0 1:143					
	5000	CL002	12.7980	-0.0000	0.0029
0.0 1:144					
	5000	CL003	13.3366	0.0000	0.0027
0.0 1:145					
	5000	CL004	55.4768	-0.0000	0.0025
0.0 1:146					
	5000	CL005	51.3758	-0.0000	0.0025
0.0 1:147					
	5000	CA006	22.7887	0.0000	0.0025
0.0 1:148					
	4000	CL10	25.2672	0.0000	0.0025
0.0 1:170					
	4000	CL11	24.1064	0.0000	0.0025
0.0 1:171					
	4000	CL12	18.1046	0.0000	0.0025
0.0 1:172					
	4000	CL13	18.0711	-0.0000	0.0025
0.0 1:173					
	4000	CL14	19.5026	-0.0000	0.0025
0.0 1:174					
	4000	CL15	19.5578	0.0000	0.0026
0.0 1:175					
	4000	CL16	19.4629	0.0000	0.0025
0.0 1:176					
	4000	CL17	20.0927	-0.0000	0.0025

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0.0	1:177				
	4000	CL18	20.3549	-0.0000	0.0025
0.0	1:178				
	4000	CA19	20.5693	-0.0000	0.0025
0.0	1:179				
	4000	CA20	8.0812	-0.0000	0.0025
0.0	1:180				
	4000	CA21	3.0765	0.0000	0.0025
0.0	1:181				
	4000	CA22	10.4882	0.0000	0.0025
0.0	1:182				
	4000	CA23	18.3882	0.0000	0.0025
0.0	1:183				
	4000	CA24	27.8536	0.0000	0.0025
0.0	1:184				
	4000	CA25	38.7118	-0.0000	0.0025
0.0	1:185				
	4000	CA26	15.3247	0.0000	0.0026
0.0	1:186				
	4000	CL27	25.0460	0.0000	0.0025
0.0	1:187				
	3000	CL50	25.5790	-0.0000	0.0025
0.0	1:218				
	3000	CL51	21.9190	-0.0000	0.0025
0.0	1:219				
	3000	CL52	14.8120	-0.0000	0.0025
0.0	1:220				
	3000	CL53	19.6000	0.0000	0.0027
0.0	1:221				
	3000	CL54	14.9580	0.0000	0.0026
0.0	1:222				
	3000	CL55	10.4320	0.0000	0.0025
0.0	1:223				
	3000	CL56	14.9850	0.0000	0.0027
0.0	1:224				
	3000	CL57	16.0220	-0.0000	0.0027
0.0	1:225				
	3000	CL58	18.0920	-0.0000	0.0029
0.0	1:226				
	3000	CL59	12.4770	-0.0000	0.0025
0.0	1:227				
	3000	CL60	14.7830	0.0000	0.0025
0.0	1:228				
	3000	CL61	18.5010	-0.0000	0.0026
0.0	1:229				
	3000	CL62	14.7550	-0.0000	0.0025
0.0	1:230				
	3000	CL63	22.8740	0.0000	0.0025
0.0	1:231				
	3000	CL64	15.6390	-0.0000	0.0025
0.0	1:232				
	3000	CL65	18.5210	-0.0000	0.0025
0.0	1:233				

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	3000	CL66	25.5260	0.0000	0.0026
0.0	1:234				
	3000	CL67	21.8870	-0.0000	0.0026
0.0	1:235				
	3000	CL68	24.6260	0.0000	0.0025
0.0	1:236				
	3000	CL69	25.0150	0.0000	0.0025
0.0	1:237				
	3000	CL70	26.9230	0.0000	0.0025
0.0	1:238				
	3000	CL71	21.8670	0.0000	0.0025
0.0	1:239				
	3000	CL72	11.3010	-0.0000	0.0025
0.0	1:240				
	3000	CL73	10.4580	0.0000	0.0026
0.0	1:241				
	3000	CL74	7.7360	-0.0000	0.0028
0.0	1:242				
	3000	CL75	9.7300	-0.0000	0.0026
0.0	1:243				
	3000	CL76	11.0490	-0.0000	0.0025
0.0	1:244				

Adjusted Zenith Observations (GONS)

StdRes	From File:Line	To	Zenith	Residual	StdErr
	5000	6000	113.919965	-0.036835	17.33
2.1	1:117				
	5000	4000	103.556569	-0.000431	10.12
0.0	1:119				
	4000	5000	96.468719	-0.000431	10.12
0.0	1:122				
	4000	3000	97.001271	-0.001379	11.62
0.1	1:124				
	3000	4000	103.028045	-0.003255	11.62
0.3	1:127				
	6000	5000	86.080165	-0.036835	17.33
2.1	1:130				
	5000	CL001	128.492900	0.000000	66.95
0.0	1:136				
	5000	CL002	125.397700	0.000000	19.87
0.0	1:137				
	5000	CL003	117.572300	-0.000000	19.81
0.0	1:138				
	5000	CL004	98.061900	0.000000	5.72
0.0	1:139				
	5000	CL005	101.328300	-0.000000	6.05
0.0	1:140				
	5000	CA006	109.097500	-0.000000	12.12
0.0	1:141				
	4000	CL10	103.325000	0.000000	11.09
0.0	1:151				

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	4000	CL11	109.257800	0.000000	11.50
0.0	1:152				
	4000	CL12	108.891700	0.000000	15.09
0.0	1:153				
	4000	CL13	108.891600	0.000000	15.12
0.0	1:154				
	4000	CL14	107.424900	0.000000	14.09
0.0	1:155				
	4000	CL15	113.862200	0.000000	13.85
0.0	1:156				
	4000	CL16	108.595800	0.000000	14.09
0.0	1:157				
	4000	CL17	106.246500	0.000000	13.72
0.0	1:158				
	4000	CL18	103.767400	0.000000	13.59
0.0	1:159				
	4000	CA19	102.403600	0.000000	13.46
0.0	1:160				
	4000	CA20	103.199500	0.000000	33.53
0.0	1:161				
	4000	CA21	102.417700	0.000000	87.81
0.0	1:162				
	4000	CA22	100.607500	0.000000	25.93
0.0	1:163				
	4000	CA23	98.825900	0.000000	14.99
0.0	1:164				
	4000	CA24	97.480100	0.000000	10.15
0.0	1:165				
	4000	CA25	95.967800	0.000000	7.58
0.0	1:166				
	4000	CA26	114.274000	0.000000	17.50
0.0	1:167				
	4000	CL27	98.996600	0.000000	11.19
0.0	1:168				
	3000	CL50	100.737400	0.000000	10.98
0.0	1:190				
	3000	CL51	93.898400	0.000000	12.64
0.0	1:191				
	3000	CL52	102.827100	0.000000	18.47
0.0	1:192				
	3000	CL53	83.139400	0.000000	13.69
0.0	1:193				
	3000	CL54	87.108500	-0.000000	17.99
0.0	1:194				
	3000	CL55	102.547200	0.000000	26.05
0.0	1:195				
	3000	CL56	84.045000	-0.000000	17.78
0.0	1:196				
	3000	CL57	81.368900	0.000000	16.50
0.0	1:197				
	3000	CL58	74.777900	-0.000000	14.23
0.0	1:198				
	3000	CL59	99.883600	-0.000000	21.86

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0.0	1:199				
	3000	CL60	89.915100	-0.000000	18.32
0.0	1:200				
	3000	CL61	85.688000	0.000000	14.59
0.0	1:201				
	3000	CL62	98.750800	-0.000000	18.55
0.0	1:202				
	3000	CL63	91.124000	-0.000000	12.09
0.0	1:203				
	3000	CL64	95.702100	-0.000000	17.50
0.0	1:204				
	3000	CL65	91.731600	-0.000000	14.79
0.0	1:205				
	3000	CL66	85.300400	-0.000000	10.76
0.0	1:206				
	3000	CL67	88.388100	-0.000000	12.53
0.0	1:207				
	3000	CL68	91.336300	-0.000000	11.29
0.0	1:208				
	3000	CL69	96.133500	0.000000	11.19
0.0	1:209				
	3000	CL70	92.068500	0.000000	10.41
0.0	1:210				
	3000	CL71	96.493400	0.000000	12.70
0.0	1:211				
	3000	CL72	107.306200	0.000000	23.95
0.0	1:212				
	3000	CL73	112.363000	0.000000	25.58
0.0	1:213				
	3000	CL74	121.329300	0.000000	33.34
0.0	1:214				
	3000	CL75	114.814400	0.000000	27.27
0.0	1:215				
	3000	CL76	107.666100	0.000000	24.48
0.0	1:216				

Adjusted Measured Direction Observations (GONS)

StdRes	From File:Line	To	Direction	Residual	StdErr
	Set 1				
	5000	6000	214.767400	-0.000000	6.04
0.0	1:32				
	5000	4000	43.052450	0.000000	3.38
0.0	1:33				
	5000	CL001	332.580100	-0.000000	27.11
0.0	1:34				
	5000	CL002	395.190400	-0.000000	7.70
0.0	1:35				
	5000	CL003	7.582100	0.000000	7.09
0.0	1:36				
	5000	CL004	55.392700	0.000000	1.91

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0.0	1:37				
	5000	CL005	62.350300	0.000000	2.02
0.0	1:38				
	5000	CA006	58.501500	0.000000	4.12
0.0	1:39				
	Set 2				
	4000	5000	143.583600	0.000000	3.38
0.0	1:43				
	4000	3000	21.389850	-0.000000	3.88
0.0	1:44				
	4000	CL10	155.991200	0.000000	3.71
0.0	1:45				
	4000	CL11	164.088500	0.000000	3.91
0.0	1:46				
	4000	CL12	169.381400	0.000000	5.12
0.0	1:47				
	4000	CL13	175.870600	0.000000	5.13
0.0	1:48				
	4000	CL14	180.300400	0.000000	4.76
0.0	1:49				
	4000	CL15	184.376700	-0.000000	4.82
0.0	1:50				
	4000	CL16	185.820700	0.000000	4.78
0.0	1:51				
	4000	CL17	192.784600	0.000000	4.61
0.0	1:52				
	4000	CL18	195.860900	0.000000	4.54
0.0	1:53				
	4000	CA19	137.486900	-0.000000	4.49
0.0	1:54				
	4000	CA20	96.724500	-0.000000	11.20
0.0	1:55				
	4000	CA21	340.000800	-0.000000	29.31
0.0	1:56				
	4000	CA22	19.690200	-0.000000	8.64
0.0	1:57				
	4000	CA23	381.949800	-0.000000	5.00
0.0	1:58				
	4000	CA24	18.640900	-0.000000	3.39
0.0	1:59				
	4000	CA25	39.112700	-0.000000	2.54
0.0	1:60				
	4000	CA26	169.369200	-0.000000	6.11
0.0	1:61				
	4000	CL27	7.414600	-0.000000	3.73
0.0	1:62				
	Set 3				
	3000	4000	0.004800	-0.000000	3.88
0.0	1:66				
	3000	CL50	63.839000	-0.000000	3.66
0.0	1:67				

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	3000	CL51	85.615900	0.000000	4.25
0.0	1:68				
	3000	CL52	89.806900	0.000000	6.17
0.0	1:69				
	3000	CL53	112.357500	-0.000000	4.86
0.0	1:70				
	3000	CL54	140.351000	0.000000	6.23
0.0	1:71				
	3000	CL55	141.184500	-0.000000	8.70
0.0	1:72				
	3000	CL56	161.879500	0.000000	6.28
0.0	1:73				
	3000	CL57	164.788900	0.000000	5.95
0.0	1:74				
	3000	CL58	163.291500	0.000000	5.49
0.0	1:75				
	3000	CL59	179.714800	0.000000	7.29
0.0	1:76				
	3000	CL60	192.094400	0.000000	6.25
0.0	1:77				
	3000	CL61	197.478100	0.000000	5.09
0.0	1:78				
	3000	CL62	211.266300	-0.000000	6.19
0.0	1:79				
	3000	CL63	212.335900	0.000000	4.10
0.0	1:80				
	3000	CL64	220.780400	-0.000000	5.86
0.0	1:81				
	3000	CL65	226.612900	-0.000000	5.00
0.0	1:82				
	3000	CL66	227.322300	-0.000000	3.76
0.0	1:83				
	3000	CL67	234.227000	-0.000000	4.30
0.0	1:84				
	3000	CL68	247.994400	0.000000	3.82
0.0	1:85				
	3000	CL69	257.500000	0.000000	3.74
0.0	1:86				
	3000	CL70	260.696200	0.000000	3.52
0.0	1:87				
	3000	CL71	265.142100	0.000000	4.24
0.0	1:88				
	3000	CL72	60.140200	-0.000000	8.08
0.0	1:89				
	3000	CL73	75.049900	-0.000000	8.83
0.0	1:90				
	3000	CL74	70.987300	-0.000000	12.37
0.0	1:91				
	3000	CL75	96.291000	-0.000000	9.56
0.0	1:92				
	3000	CL76	110.838100	0.000000	8.27
0.0	1:93				

report starnet rete cava
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				
3000	4000	111.13381	23.9964	129.88 0.0032
134.5950			24.0022	
3000	CL50	174.96801	25.5710	184.19 0.0061
236.6113			25.5773	
3000	CL51	196.74491	21.8131	191.58 0.0062
282.8627			21.8184	
3000	CL52	200.93591	14.7938	220.65 0.0061
409.2661			14.7974	
3000	CL53	223.48651	18.9120	200.19 0.0069
363.8893			18.9166	
3000	CL54	251.48001	14.6488	221.65 0.0066
447.1735			14.6524	
3000	CL55	252.31351	10.4211	266.87 0.0060
579.6383			10.4236	
3000	CL56	273.00851	14.5133	222.61 0.0068
467.7738			14.5168	
3000	CL57	275.91791	15.3370	217.13 0.0070
457.5731			15.3408	
3000	CL58	274.42051	16.6865	209.62 0.0076
455.3583			16.6906	
3000	CL59	290.84381	12.4739	240.23 0.0060
482.7843			12.4770	
3000	CL60	303.22341	14.5943	222.03 0.0064
435.7618			14.5979	
3000	CL61	308.60711	18.0310	203.56 0.0067
369.9068			18.0354	
3000	CL62	322.39530	14.7485	220.96 0.0060
409.0011			14.7522	
3000	CL63	323.46490	22.6465	189.65 0.0063
278.6196			22.6520	
3000	CL64	331.90940	15.5996	215.53 0.0061

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390.5431			15.6034		
3000	CL65	337.74190	18.3605	202.25	0.0063
341.1946					
			18.3650		
3000	CL66	338.45130	24.8424	185.38	0.0067
270.8436					
			24.8485		
3000	CL67	345.35600	21.5186	192.32	0.0065
301.1796					
			21.5239		
3000	CL68	359.12340	24.3923	186.17	0.0063
258.3871					
			24.3983		
3000	CL69	368.62900	24.9628	185.18	0.0061
244.3785					
			24.9689		
3000	CL70	371.82520	26.7078	182.50	0.0063
234.7313					
			26.7143		
3000	CL71	376.27110	21.8285	191.55	0.0061
278.7311					
			21.8338		
3000	CL72	171.26921	11.2239	255.05	0.0062
552.2883					
			11.2267		
3000	CL73	186.17891	10.2589	269.52	0.0065
633.5894					
			10.2614		
3000	CL74	182.11631	7.3041	342.83	0.0072
988.4813					
			7.3059		
3000	CL75	207.42001	9.4654	284.08	0.0067
705.8736					
			9.4677		
3000	CL76	221.96711	10.9663	258.61	0.0062
566.7974					
			10.9690		
4000	5000	33.32756	27.8641	180.98	0.0043
154.7545					
			27.8710		
4000	CA19	27.23086	20.5496	194.93	0.0061
294.8345					
			20.5546		
4000	CA20	386.46846	8.0690	317.94	0.0060
749.5992					
			8.0710		
4000	CA21	229.74476	3.0735	735.25	0.0060
1959.7819					
			3.0743		
4000	CA22	309.43416	10.4852	265.84	0.0060
574.0936					
			10.4877		

		report	starnet	rete	cava	
4000	CA23	271.69376	18.3806	202.17	0.0060	
328.5456						
4000	CA24	308.38486	18.3851	181.03	0.0061	
218.3612			27.8250			
4000	CA25	328.85665	27.8318	172.49	0.0061	
158.8596			38.6247			
4000	CA26	59.11316	38.6342	219.69	0.0067	
445.5928			14.9375			
4000	CL10	45.73516	14.9411	184.74	0.0061	
241.3001			25.2266			
4000	CL11	53.83246	25.2327	187.18	0.0063	
265.6841			23.8461			
4000	CL12	59.12536	23.8520	204.00	0.0063	
351.3550			17.9239			
4000	CL13	65.61456	17.9283	204.13	0.0063	
352.0010			17.8908			
4000	CL14	70.04436	17.8951	198.61	0.0062	
321.3924			19.3654			
4000	CL15	74.12066	19.3701	199.55	0.0066	
347.7282			19.0913			
4000	CL16	75.56466	19.0960	198.90	0.0063	
325.9525			19.2810			
4000	CL17	82.52856	19.2858	196.59	0.0062	
308.7260			19.9912			
4000	CL18	85.60486	19.9961	195.62	0.0061	
299.6729			20.3143			
4000	CL27	297.15856	20.3193	185.05	0.0061	
241.6837			25.0368			
5000	6000	5.04250	25.0429	247.89	0.0047	
309.9378			15.1209			
5000	CA006	248.77661	15.1246	223.06	0.0063	
280.3564			22.5509			
5000	CL001	122.85520	22.5564	692.73	0.0078	
2345.9112			3.3235			
5000	CL002	185.46550	3.3243	274.12	0.0076	
643.2781			11.7901			

		report starnet rete cava			
			11.7930		
5000	CL003	197.85721	12.8286	264.04	0.0069
539.2186					
			12.8318		
5000	CL004	245.66781	55.4375	204.42	0.0061
110.4724					
			55.4511		
5000	CL005	252.62541	51.3520	205.06	0.0061
118.9344					
			51.3646		

Error Propagation
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Station Coordinate Standard Deviations (Meters)

Station	E	N	Elev
3000	0.000000	0.000000	0.000000
4000	0.001345	0.001983	0.003092
5000	0.003007	0.003667	0.004403
6000	0.004874	0.004239	0.005294
CL001	0.004185	0.004337	0.005770
CL002	0.002608	0.004966	0.005849
CL003	0.002483	0.004662	0.005988
CL004	0.004124	0.003768	0.006648
CL005	0.003568	0.003797	0.006576
CA006	0.002832	0.003304	0.006162
CL10	0.002908	0.004094	0.005376
CL11	0.002873	0.004163	0.005316
CL12	0.002722	0.003814	0.005268
CL13	0.002756	0.003842	0.005268
CL14	0.002773	0.003971	0.005294
CL15	0.002917	0.003985	0.005210
CL16	0.002812	0.003992	0.005282
CL17	0.002802	0.004076	0.005309
CL18	0.002783	0.004113	0.005328
CA19	0.002693	0.003597	0.005335
CA20	0.002053	0.003054	0.005258
CA21	0.002208	0.002955	0.005249
CA22	0.002776	0.001946	0.005273
CA23	0.002878	0.002060	0.005321
CA24	0.002799	0.002291	0.005408
CA25	0.003068	0.002917	0.005547
CA26	0.002761	0.003654	0.005173
CL27	0.002827	0.002134	0.005381
CL50	0.002948	0.002560	0.004411
CL51	0.002681	0.002521	0.004337
CL52	0.002095	0.002473	0.004294
CL53	0.002483	0.002765	0.004128
CL54	0.002412	0.002385	0.004172
CL55	0.002178	0.002129	0.004267
CL56	0.002668	0.002207	0.004108
CL57	0.002779	0.002251	0.004053

	report starnet rete cava		
CL58	0.002989	0.002396	0.003896
CL59	0.002450	0.001936	0.004284
CL60	0.002597	0.002081	0.004220
CL61	0.002719	0.002363	0.004174
CL62	0.002423	0.002139	0.004299
CL63	0.002602	0.002734	0.004315
CL64	0.002416	0.002238	0.004292
CL65	0.002506	0.002439	0.004278
CL66	0.002817	0.002890	0.004243
CL67	0.002651	0.002652	0.004261
CL68	0.002797	0.002701	0.004339
CL69	0.002867	0.002606	0.004392
CL70	0.003032	0.002674	0.004378
CL71	0.002658	0.002513	0.004357
CL72	0.001988	0.002416	0.004234
CL73	0.001825	0.002621	0.004153
CL74	0.001747	0.002869	0.003934
CL75	0.001743	0.002719	0.004100
CL76	0.001916	0.002468	0.004228

Station Coordinate Error Ellipses (Meters)
Confidence Region = 95

Station Elev	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis
3000 0.000000	0.000000	0.000000	0.00
4000 0.006060	0.004895	0.003230	11.13
5000 0.008629	0.010378	0.005200	160.62
6000 0.010375	0.014144	0.007066	142.59
CL001 0.011309	0.012876	0.007197	152.17
CL002 0.011464	0.012392	0.005911	185.78
CL003 0.011736	0.011484	0.005941	191.67
CL004 0.013029	0.010889	0.008270	139.14
CL005 0.012888	0.009876	0.008072	160.11
CA006 0.012077	0.008492	0.006430	30.97
CL10 0.010538	0.010418	0.006523	177.19
CL11 0.010419	0.010370	0.006766	184.31
CL12 0.010325	0.009345	0.006650	196.24
CL13	0.009405	0.006745	198.39

	report starnet rete cava		
0.010325			
CL14	0.009726	0.006778	196.84
0.010376			
CL15	0.009756	0.007140	1.36
0.010211			
CL16	0.009771	0.006883	199.26
0.010352			
CL17	0.009976	0.006859	0.40
0.010406			
CL18	0.010069	0.006812	1.00
0.010443			
CA19	0.009146	0.006109	176.33
0.010457			
CA20	0.007670	0.004723	181.70
0.010305			
CA21	0.007690	0.004730	28.37
0.010287			
CA22	0.006832	0.004711	109.22
0.010336			
CA23	0.007218	0.004790	81.14
0.010428			
CA24	0.006885	0.005567	110.78
0.010599			
CA25	0.007879	0.006731	60.43
0.010872			
CA26	0.008972	0.006722	7.47
0.010139			
CL27	0.006929	0.005211	105.08
0.010546			
CL50	0.007398	0.006050	74.97
0.008646			
CL51	0.006564	0.006170	96.74
0.008501			
CL52	0.006055	0.005128	0.94
0.008416			
CL53	0.006882	0.005947	23.49
0.008091			
CL54	0.006551	0.005100	51.48
0.008177			
CL55	0.006040	0.004368	52.31
0.008363			
CL56	0.006789	0.005075	73.01
0.008052			
CL57	0.007018	0.005231	75.92
0.007944			
CL58	0.007598	0.005494	74.42
0.007635			
CL59	0.006022	0.004707	90.84
0.008397			
CL60	0.006360	0.005090	103.22
0.008271			
CL61	0.006670	0.005765	108.61
0.008181			

	report	starnet	rete	cava
CL62	0.006032	0.005119	122.40	
0.008426				
CL63	0.006746	0.006310	23.46	
0.008458				
CL64	0.006092	0.005281	131.91	
0.008413				
CL65	0.006265	0.005833	137.74	
0.008384				
CL66	0.007234	0.006728	38.45	
0.008317				
CL67	0.006501	0.006481	45.36	
0.008351				
CL68	0.007133	0.006303	59.12	
0.008504				
CL69	0.007261	0.006100	68.63	
0.008608				
CL70	0.007656	0.006269	71.83	
0.008581				
CL71	0.006568	0.006084	76.27	
0.008539				
CL72	0.006199	0.004497	171.27	
0.008299				
CL73	0.006500	0.004343	186.18	
0.008139				
CL74	0.007220	0.003933	182.12	
0.007710				
CL75	0.006681	0.004224	7.42	
0.008036				
CL76	0.006216	0.004455	21.97	
0.008287				

Relative Error Ellipses (Meters)
Confidence Region = 95

Stations		Semi-Major	Semi-Minor	Azimuth of
Vertical				
From	To	Axis	Axis	Major Axis
3000	4000	0.004895	0.003230	11.13
0.006060				
3000	CL50	0.007398	0.006050	74.97
0.008646				
3000	CL51	0.006564	0.006170	96.74
0.008501				
3000	CL52	0.006055	0.005128	0.94
0.008416				
3000	CL53	0.006882	0.005947	23.49
0.008091				
3000	CL54	0.006551	0.005100	51.48
0.008177				
3000	CL55	0.006040	0.004368	52.31
0.008363				
3000	CL56	0.006789	0.005075	73.01
0.008052				

		report starnet	rete cava	
3000	CL57	0.007018	0.005231	75.92
0.007944				
3000	CL58	0.007598	0.005494	74.42
0.007635				
3000	CL59	0.006022	0.004707	90.84
0.008397				
3000	CL60	0.006360	0.005090	103.22
0.008271				
3000	CL61	0.006670	0.005765	108.61
0.008181				
3000	CL62	0.006032	0.005119	122.40
0.008426				
3000	CL63	0.006746	0.006310	23.46
0.008458				
3000	CL64	0.006092	0.005281	131.91
0.008413				
3000	CL65	0.006265	0.005833	137.74
0.008384				
3000	CL66	0.007234	0.006728	38.45
0.008317				
3000	CL67	0.006501	0.006481	45.36
0.008351				
3000	CL68	0.007133	0.006303	59.12
0.008504				
3000	CL69	0.007261	0.006100	68.63
0.008608				
3000	CL70	0.007656	0.006269	71.83
0.008581				
3000	CL71	0.006568	0.006084	76.27
0.008539				
3000	CL72	0.006199	0.004497	171.27
0.008299				
3000	CL73	0.006500	0.004343	186.18
0.008139				
3000	CL74	0.007220	0.003933	182.12
0.007710				
3000	CL75	0.006681	0.004224	7.42
0.008036				
3000	CL76	0.006216	0.004455	21.97
0.008287				
4000	5000	0.007921	0.004312	133.33
0.006143				
4000	CA19	0.006292	0.006059	127.23
0.008522				
4000	CA20	0.006049	0.004030	186.47
0.008335				
4000	CA21	0.006023	0.003550	29.74
0.008313				
4000	CA22	0.006019	0.004378	109.43
0.008373				
4000	CA23	0.006039	0.005837	71.69
0.008487				
4000	CA24	0.007912	0.006076	8.38

report starnet rete cava				
0.008696				
4000	CA25	0.010465	0.006136	28.86
0.009027				
4000	CA26	0.006656	0.005155	59.11
0.008129				
4000	CL10	0.007320	0.006087	145.74
0.008621				
4000	CL11	0.007011	0.006336	153.83
0.008476				
4000	CL12	0.006298	0.005743	59.13
0.008360				
4000	CL13	0.006298	0.005737	65.61
0.008359				
4000	CL14	0.006224	0.006042	70.04
0.008423				
4000	CL15	0.006639	0.005984	74.12
0.008219				
4000	CL16	0.006285	0.006024	75.56
0.008393				
4000	CL17	0.006173	0.006172	182.53
0.008460				
4000	CL18	0.006242	0.006088	185.60
0.008505				
4000	CL27	0.007278	0.006051	197.16
0.008632				
5000	6000	0.005888	0.004687	105.04
0.005761				
5000	CA006	0.007901	0.006322	148.78
0.008449				
5000	CL001	0.007797	0.003616	122.86
0.007310				
5000	CL002	0.007584	0.005077	185.47
0.007547				
5000	CL003	0.006917	0.005321	197.86
0.007955				
5000	CL004	0.017801	0.006124	145.67
0.009763				
5000	CL005	0.016541	0.006108	152.63
0.009573				

Elapsed Time = 00:00:00