

**Plymouth County
Iowa**

**2001
H.A.R.N.
Adjustment**

**NAD83(1996)
Iowa North Zone**

**Survey Adjustment
Of 1995
County-Wide G.P.S.
Survey**

**Aerial Services, Inc.
2120 Center Street
P.O. Box 336
Cedar Falls, Iowa 50613
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2001 H.A.R.N. Adjustment - Final - US FEET

Horizontal Datum: NAD83(1996) Iowa North Zone
Vertical Datum: NAVD88

STAR*NET-GPS Version 5.106
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Serial Number 20720
Run Date: Tue Jan 30 2001 14:33:17

Summary of Files Used

Project Directory	D:\014675_1\SSF
Input Data File	83FT.DAT
Output Listing (This File)	83FT.LST
Coordinates	83FT.PTS
Positions	83FT.POS
Project Parameters	83FT.PRJ
Error Log	83FT.ERR
Plot File	83FT.SPL

Adjustment Options

STAR*NET Run Mode	: Adjust with Error Propagation
Type of Adjustment	: 3D
Input Order for Coordinates	: N,E,Elev
Coordinate System	: Lambert NAD83 IA North 1401
Avg Project Geoid Height in Meters	: 0.0000
Linear Units	: US Feet
Input Order for Angle Stations	: At-From-To
Max Iterations; Convergence Limit	: 10; 0.0100
Correct Zeniths for Curve & Refract	: No
Adjust 3D Obs for Vert Divergence	: No
3D Data Input Mode	: Slope/Zenith
Earth Radius	: 20906000.000 US Feet
Coefficient of Refraction	: 0.070
Geoid Modeling	: Yes
GPS Vector Std Error Factors	: 2.8000 (Horiz), 3.9500 (Vert)
GPS Vector Centering (Meters)	: 0.00600
GPS Vector Transformations	: Solve Scale & Rotations

Summary of Controlling Stations

=====

Fixed Stations	N	E	Elev	Description
48	3727686 8626	4160296 1112	1442 3400	IaHarn "GPS 048"
117	3676139 5086	4285500 7398	1316 1800	Plymouth Co 95-117
118	3692110 1460	4286142 5391	1405 2500	Plymouth Co 95-118
119	3708337 3041	4286488 2584	1307 7700	Plymouth Co 95-119
120	3723747 4526	4286810 9905	1366 3400	Plymouth Co 95-120
121	3739108 1794	4287133 4488	1419 9700	Plymouth Co 95-121
122	3755618 7462	4287886 2517	1408 2600	Plymouth Co 95-122
123	3771667 4919	4288609 6541	1428 1100	Plymouth Co 95-123
124	3787407 6794	4288943 6785	1421 9500	Plymouth Co 95-124
212	3763352 1028	4091189 2899	1139 0900	IaHARN "A 146"
303	3804844 4282	4245073 2080	1422 9300	IaHarn "HOMAN RESET"

Partially Fixed	N StdErr	E StdErr	Elev StdErr	Description
1	3730955 0888 FREE	4075772 0214 FREE	1119 4600 FIXED	Plymouth Co GPS Pt
2	3747620 1689 FREE	4075297 7621 FREE	1117 7300 FIXED	Plymouth Co GPS Pt
3	3768044 6487 FREE	4077152 6633 FREE	1188 6900 FIXED	Plymouth Co GPS Pt
4	3730853 8664 FREE	4086337 1756 FREE	1109 0200 FIXED	Plymouth Co GPS Pt
5	3746269 5588 FREE	4085224 6487 FREE	1136 3900 FIXED	Plymouth Co GPS Pt
7	3777972 5972 FREE	4088399 9551 FREE	1132 5300 FIXED	Plymouth Co GPS Pt
8	3793822 5257 FREE	4088584 1401 FREE	1293 1700 FIXED	Plymouth Co GPS Pt
9	3698578 7195 FREE	4095813 0071 FREE	1112 5800 FIXED	1st order BM
10	3714635 2747 FREE	4096303 6278 FREE	1109 8100 FIXED	Plymouth Co GPS Pt
11	3730823 9263 FREE	4097007 3544 FREE	1205 6000 FIXED	Plymouth Co GPS Pt
12	3744548 8479 FREE	4097596 3763 FREE	1414 0800 FIXED	Plymouth Co GPS Pt
13	3764650 1442 FREE	4098391 1917 FREE	1271 5300 FIXED	Plymouth Co GPS Pt
14	3777736 1840 FREE	4099355 9613 FREE	1149 7800 FIXED	Plymouth Co GPS Pt
15	3793532 6090 FREE	4099107 1861 FREE	1205 7800 FIXED	Plymouth Co GPS Pt
16	3808301 2015 FREE	4099662 8167 FREE	1327 4600 FIXED	Plymouth Co GPS Pt
17	3682079 5643 FREE	4105857 9293 FREE	1109 6400 FIXED	Plymouth Co GPS Pt
18	3697983 0535 FREE	4113156 4244 FREE	1108 5900 FIXED	Plymouth Co GPS Pt
19	3714225 0509 FREE	4114545 4967 FREE	1126 6700 FIXED	Plymouth Co GPS Pt
20	3730065 7947 FREE	4112429 1038 FREE	1327 5400 FIXED	Plymouth Co GPS Pt
21	3745539 5285	4113679 1024	1394 4000	Plymouth Co GPS Pt

22	FREE	FREE	FREE	FIXED	
	3762184.9702	4114137.4302	1316.9900	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
23	3777209.7265	4114455.4986	1367.8800	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
24	3793306.2445	4114892.7196	1279.3000	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
25	3808643.6079	4115152.4993	1183.1100	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
26	3681804.7577	4118402.7545	1115.9700	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
27	3682460.2655	4127602.3810	1277.9800	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
28	3697418.0954	4128009.3282	1492.4500	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
29	3719154.7814	4128098.3770	1311.3400	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
30	3729197.6605	4128585.4920	1294.1300	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
31	3743990.8902	4129225.8812	1298.0100	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
32	3760759.6229	4129910.0152	1359.2900	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
33	3776204.3018	4130207.1059	1418.2800	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
34	3792635.2837	4130653.9206	1261.5700	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
35	3807828.7505	4130959.8195	1360.5400	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
36	3682131.1430	4140423.3256	1173.7000	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
37	3697629.5893	4143364.9611	1350.8000	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
38	3712815.7155	4144440.3367	1365.3600	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
39	3728558.5151	4144871.4393	1396.8900	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
40	3744339.6135	4145598.6418	1377.5100	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
41	3760256.7918	4145501.2561	1357.6200	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
42	3775624.8067	4146010.1764	1357.0100	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
43	3791735.0561	4146114.3440	1431.1800	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
44	3807606.6377	4147914.7833	1341.8900	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
45	3680762.7243	4158806.7387	1121.2200	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
46	3691288.8275	4158856.1305	1355.6500	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
47	3712184.3955	4159565.7960	1428.2600	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
49	3743716.9761	4160878.7054	1386.8300	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		
50	3759118.1306	4161303.7000	1426.5000	Plymouth Co GPS Pt	
	FREE	FREE	FIXED		

51	3775247	2353	4161827	2868	1429	7000	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
52	3791098	1810	4162087	3072	1450	7900	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
53	3807124	3482	4162768	8454	1421	4500	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
54	3679825	1203	4174442	7940	1292	2800	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
55	3695610	2395	4176866	1730	1295	9200	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
56	3711083	6142	4176806	2521	1168	1500	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
57	3729333	1045	4176068	6393	1199	5300	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
58	3741245	5780	4176317	1545	1357	8000	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
59	3758961	0693	4177040	3690	1227	7500	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
60	3774821	7514	4176818	8744	1321	4400	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
61	3790235	6597	4178031	6358	1365	8400	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
62	3806000	8135	4178499	0728	1444	0400	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
63	3679005	5912	4190210	3708	1276	6900	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
64	3695232	7204	4190792	0152	1306	1800	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
65	3710060	5691	4191313	8184	1343	9100	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
66	3726281	0733	4191792	9945	1315	2900	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
67	3743531	5432	4191082	4871	1189	2900	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
68	3759809	3062	4192928	2671	1210	9100	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
69	3774601	6158	4193417	0828	1223	1100	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
70	3790391	5339	4193811	5899	1328	3400	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
71	3806059	8689	4195217	5409	1353	3300	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
72	3678885	8471	4206231	9368	1293	0500	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
73	3694498	5308	4207793	8751	1310	0200	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
74	3710768	6643	4206865	4551	1361	3400	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
75	3725732	7997	4207541	1212	1411	0500	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
76	3742137	3917	4207933	2152	1231	4000	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
77	3758060	4062	4208440	0398	1328	8400	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
78	3773829	4134	4210347	5425	1222	5400	Plymouth Co	GPS	Pt
		FREE		FREE		FIXED			
79	3788968	2025	4209610	7710	1309	1700	Plymouth Co	GPS	Pt

80	FREE	FREE	FREE	FIXED	
	3805260.2614	4209972.2066	1338.7200	Plymouth Co GPS Pt	
81	FREE	FREE	FIXED		
	3678400.6790	4220820.4807	1276.0900	Plymouth Co GPS Pt	
82	FREE	FREE	FIXED		
	3694221.1086	4222392.6838	1250.9600	Plymouth Co GPS Pt	
83	FREE	FREE	FIXED		
	3710324.9048	4222564.6507	1310.6500	Plymouth Co GPS Pt	
84	FREE	FREE	FIXED		
	3726074.6997	4223345.6205	1415.3700	Plymouth Co GPS Pt	
85	FREE	FREE	FIXED		
	3741373.4424	4223603.0516	1378.7100	Plymouth Co GPS Pt	
86	FREE	FREE	FIXED		
	3757586.3357	4224330.2966	1360.4600	Plymouth Co GPS Pt	
87	FREE	FREE	FIXED		
	3773368.8689	4225050.5861	1277.9600	Plymouth Co GPS Pt	
88	FREE	FREE	FIXED		
	3790340.5588	4225554.2394	1308.4100	Plymouth Co GPS Pt	
89	FREE	FREE	FIXED		
	3805316.9645	4226218.4808	1362.9000	Plymouth Co GPS Pt	
90	FREE	FREE	FIXED		
	3683071.2266	4238154.4308	1335.7800	Plymouth Co GPS Pt	
91	FREE	FREE	FIXED		
	3693530.1648	4238488.3712	1360.5400	Plymouth Co GPS Pt	
92	FREE	FREE	FIXED		
	3710093.6111	4238966.1709	1362.5900	Plymouth Co GPS Pt	
93	FREE	FREE	FIXED		
	3725193.2822	4239022.5055	1376.4100	Plymouth Co GPS Pt	
94	FREE	FREE	FIXED		
	3741293.2142	4238168.7851	1457.2200	Plymouth Co GPS Pt	
95	FREE	FREE	FIXED		
	3756742.9602	4240119.6877	1423.2400	Plymouth Co GPS Pt	
96	FREE	FREE	FIXED		
	3773634.4772	4241028.4908	1308.3500	Plymouth Co GPS Pt	
97	FREE	FREE	FIXED		
	3788126.4044	4241424.0325	1355.9500	Plymouth Co GPS Pt	
98	FREE	FREE	FIXED		
	3804930.1736	4241868.4765	1399.4600	Plymouth Co GPS Pt	
99	FREE	FREE	FIXED		
	3678265.8287	4253727.2063	1349.5400	Plymouth Co GPS Pt	
100	FREE	FREE	FIXED		
	3693331.8055	4254304.2050	1221.9800	Plymouth Co GPS Pt	
101	FREE	FREE	FIXED		
	3709187.7553	4254755.3403	1366.2400	Plymouth Co GPS Pt	
102	FREE	FREE	FIXED		
	3725074.3728	4255032.8088	1382.2900	Plymouth Co GPS Pt	
103	FREE	FREE	FIXED		
	3740603.1577	4255398.0810	1396.4000	Plymouth Co GPS Pt	
104	FREE	FREE	FIXED		
	3756693.1270	4256174.9534	1432.0500	Plymouth Co GPS Pt	
105	FREE	FREE	FIXED		
	3772706.1045	4256930.5963	1311.5500	Plymouth Co GPS Pt	
106	FREE	FREE	FIXED		
	3788454.9211	4257451.3951	1408.8300	Plymouth Co GPS Pt	
107	FREE	FREE	FIXED		
	3803404.9306	4257670.8890	1391.6500	Plymouth Co GPS Pt	

108	3676729	6587	4269772	3009	1413	7500	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
109	3692510	8187	4270403	5069	1350	2100	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
110	3708688	2578	4270692	8225	1365	6100	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
111	3724042	7900	4271048	4913	1401	9900	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
112	3740721	9316	4271358	4647	1404	1500	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
113	3756766	3714	4272064	0254	1466	7600	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
114	3773179	4488	4272710	8367	1431	1600	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
115	3787922	8767	4273280	3220	1344	3400	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
116	3803824	3578	4273486	8350	1434	0000	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
125	3703946	6155	4167450	2274	1326	9900	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
126	3753137	7670	4192613	1242	1218	5400	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
127	3752880	2900	4203359	8855	1321	2200	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
128	3774449	5468	4203796	7045	1301	5900	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
129	3752614	2541	4212991	1229	1372	4500	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
130	3773714	7837	4214081	3109	1342	2600	Plymouth Co GPS Pt
		FREE		FREE		FIXED	
200	3802867	2651	4289211	2091	1445	1900	USGS BM "38 T"
		FREE		FREE		FIXED	
201	3771974	4232	4302945	2420	1473	7500	NGS BM "MARCUS"
		FREE		FREE		FIXED	
202	3771218	7098	4309695	3232	1416	7100	NGS BM "X 24"
		FREE		FREE		FIXED	
203	3729628	7838	4286872	7284	1415	4900	USGS BM "21 T"
		FREE		FREE		FIXED	
204	3669997	0131	4283252	7780	1270	0300	TBM near NGS BM "L 14"
		FREE		FREE		FIXED	
205	3660848	2157	4291037	7797	1195	6100	NGS BM "K 14"
		FREE		FREE		FIXED	
207	3770553	1474	4258267	2299	1324	2000	TBM near NGS BM
"REMSSEN"		FREE		FREE		FIXED	
208	3763811	6925	4206240	8183	1229	7300	TBM near NGS BM "LE
MARS"		FREE		FREE		FIXED	
214	3806444	5890	4038658	5440	1279	8800	NGS BM "C 447"
		FREE		FREE		FIXED	
300	3797610	5653	4313584	2414	1474	2200	
		FREE		FREE		FIXED	
301	3803909	2193	4271418	1055	1461	2500	
		FREE		FREE		FIXED	
302	3761387	6630	4271299	4400	1474	2000	
		FREE		FREE		FIXED	
304	3762998	9259	4223438	3125	1409	2000	

		FREE		FREE		FIXED	
306	3726603	3542	4208857	7942	1436	0000	
		FREE		FREE		FIXED	
307	3785075	3497	4166912	2563	1461	5300	
		FREE		FREE		FIXED	
308	3729265	5901	4159002	7525	1478	0800	
		FREE		FREE		FIXED	
309	3678414	7616	4143948	5106	1420	4900	
		FREE		FREE		FIXED	
310	3809879	3932	4046690	9047	1421	2200	
		FREE		FREE		FIXED	
A4581	3803505	0917	4115075	2294	1173	6900	Sec Cor 1st order
		FREE		FREE		FIXED	

Adjustment Results

Adjusted Coordinates (US Feet)

Station	N	E	Elev	Description
1	3730955.3577	4075770.9803	1119.4600	Plymouth Co GPS Pt
2	3747620.0907	4075297.6643	1117.7300	Plymouth Co GPS Pt
3	3768044.6568	4077152.5610	1188.6900	Plymouth Co GPS Pt
4	3730854.1355	4086336.2044	1109.0200	Plymouth Co GPS Pt
5	3746269.9150	4085223.7361	1136.3900	Plymouth Co GPS Pt
7	3777972.6447	4088399.8932	1132.5300	Plymouth Co GPS Pt
8	3793822.6387	4088584.0758	1293.1700	Plymouth Co GPS Pt
9	3698578.8053	4095812.0612	1112.5800	1st order BM
10	3714635.4574	4096302.7031	1109.8100	Plymouth Co GPS Pt
11	3730824.1995	4097006.4576	1205.6000	Plymouth Co GPS Pt
12	3744549.1968	4097595.5199	1414.0800	Plymouth Co GPS Pt
13	3764650.5984	4098390.3802	1271.5300	Plymouth Co GPS Pt
14	3777736.7322	4099355.1738	1149.7800	Plymouth Co GPS Pt
15	3793533.2776	4099106.4316	1205.7800	Plymouth Co GPS Pt
16	3808301.9682	4099662.0632	1327.4600	Plymouth Co GPS Pt
17	3682079.5489	4105857.0157	1109.6400	Plymouth Co GPS Pt
18	3697983.1498	4113155.7141	1108.5900	Plymouth Co GPS Pt
19	3714225.2213	4114544.7938	1126.6700	Plymouth Co GPS Pt
20	3730066.0618	4112428.3866	1327.5400	Plymouth Co GPS Pt
21	3745539.8882	4113678.3881	1394.4000	Plymouth Co GPS Pt
22	3762185.4351	4114136.7216	1316.9900	Plymouth Co GPS Pt
23	3777210.2883	4114454.7948	1367.8800	Plymouth Co GPS Pt
24	3793306.9021	4114892.0249	1279.3000	Plymouth Co GPS Pt
25	3808644.3705	4115151.8157	1183.1100	Plymouth Co GPS Pt
26	3681804.7789	4118402.0717	1115.9700	Plymouth Co GPS Pt
27	3682460.2888	4127601.7349	1277.9800	Plymouth Co GPS Pt
28	3697418.2050	4128008.6877	1492.4500	Plymouth Co GPS Pt
29	3719155.0068	4128097.7415	1311.3400	Plymouth Co GPS Pt
30	3729197.9143	4128584.8619	1294.1300	Plymouth Co GPS Pt
31	3743991.2103	4129225.2595	1298.0100	Plymouth Co GPS Pt
32	3760760.0281	4129909.3977	1359.2900	Plymouth Co GPS Pt
33	3776204.7749	4130206.4916	1418.2800	Plymouth Co GPS Pt
34	3792635.7599	4130653.2663	1261.5700	Plymouth Co GPS Pt
35	3807829.3230	4130959.1819	1360.5400	Plymouth Co GPS Pt
36	3682130.8869	4140423.2120	1173.7000	Plymouth Co GPS Pt
37	3697629.3963	4143364.8571	1350.8000	Plymouth Co GPS Pt
38	3712815.5864	4144440.2333	1365.3600	Plymouth Co GPS Pt
39	3728558.4545	4144871.3432	1396.8900	Plymouth Co GPS Pt
40	3744339.9344	4145598.1031	1377.5100	Plymouth Co GPS Pt
41	3760257.1876	4145500.7150	1357.6200	Plymouth Co GPS Pt
42	3775625.2744	4146009.6361	1357.0100	Plymouth Co GPS Pt
43	3791735.5881	4146113.7975	1431.1800	Plymouth Co GPS Pt
44	3807607.2311	4147914.2400	1341.8900	Plymouth Co GPS Pt
45	3680762.4789	4158806.7080	1121.2200	Plymouth Co GPS Pt
46	3691288.6393	4158856.1055	1355.6500	Plymouth Co GPS Pt
47	3712184.3212	4159565.7822	1428.2600	Plymouth Co GPS Pt
48	3727686.8626	4160296.1112	1442.3400	IaHarn "GPS 048"
49	3743717.3050	4160878.2562	1386.8300	Plymouth Co GPS Pt
50	3759118.4902	4161303.2916	1426.5000	Plymouth Co GPS Pt
51	3775247.6839	4161826.8829	1429.7000	Plymouth Co GPS Pt
52	3791098.7160	4162086.9102	1450.7900	Plymouth Co GPS Pt

53	3807124.9675	4162768.4370	1421.4500	Plymouth Co GPS Pt
54	3679825.1346	4174442.4506	1292.2800	Plymouth Co GPS Pt
55	3695610.3346	4176865.8502	1295.9200	Plymouth Co GPS Pt
56	3711083.7904	4176805.9092	1168.1500	Plymouth Co GPS Pt
57	3729333.3667	4176068.2844	1199.5300	Plymouth Co GPS Pt
58	3741245.8919	4176316.7912	1357.8000	Plymouth Co GPS Pt
59	3758961.4538	4177040.0239	1227.7500	Plymouth Co GPS Pt
60	3774822.1987	4176818.5413	1321.4400	Plymouth Co GPS Pt
61	3790236.1894	4178031.3000	1365.8400	Plymouth Co GPS Pt
62	3806001.4264	4178498.7302	1444.0400	Plymouth Co GPS Pt
63	3679005.6186	4190210.0967	1276.6900	Plymouth Co GPS Pt
64	3695232.8275	4190791.7443	1306.1800	Plymouth Co GPS Pt
65	3710060.7499	4191313.5501	1343.9100	Plymouth Co GPS Pt
66	3726281.3539	4191792.7293	1315.2900	Plymouth Co GPS Pt
67	3743531.9292	4191082.2190	1189.2900	Plymouth Co GPS Pt
68	3759809.8542	4192927.9430	1210.9100	Plymouth Co GPS Pt
69	3774602.2458	4193416.7574	1223.1100	Plymouth Co GPS Pt
70	3790392.2414	4193811.2815	1328.3400	Plymouth Co GPS Pt
71	3806060.6533	4195217.2534	1353.3300	Plymouth Co GPS Pt
72	3678885.8217	4206231.6607	1293.0500	Plymouth Co GPS Pt
73	3694498.5943	4207793.6093	1310.0200	Plymouth Co GPS Pt
74	3710768.8206	4206865.1865	1361.3400	Plymouth Co GPS Pt
75	3725733.0252	4207540.8549	1411.0500	Plymouth Co GPS Pt
76	3742137.7715	4207933.0193	1231.4000	Plymouth Co GPS Pt
77	3758060.8584	4208439.8459	1328.8400	Plymouth Co GPS Pt
78	3773829.9946	4210347.3113	1222.5400	Plymouth Co GPS Pt
79	3788968.8553	4209610.5380	1309.1700	Plymouth Co GPS Pt
80	3805261.0283	4209971.9799	1338.7200	Plymouth Co GPS Pt
81	3678400.6673	4220820.2710	1276.0900	Plymouth Co GPS Pt
82	3694221.2029	4222392.4817	1250.9600	Plymouth Co GPS Pt
83	3710325.1081	4222564.4490	1310.6500	Plymouth Co GPS Pt
84	3726074.9825	4223345.4711	1415.3700	Plymouth Co GPS Pt
85	3741373.8111	4223602.9138	1378.7100	Plymouth Co GPS Pt
86	3757586.8017	4224330.1524	1360.4600	Plymouth Co GPS Pt
87	3773369.4431	4225050.4259	1277.9600	Plymouth Co GPS Pt
88	3790341.2270	4225554.0817	1308.4100	Plymouth Co GPS Pt
89	3805317.7170	4226218.3262	1362.9000	Plymouth Co GPS Pt
90	3683071.3057	4238154.2502	1335.7800	Plymouth Co GPS Pt
91	3693530.3062	4238488.2020	1360.5400	Plymouth Co GPS Pt
92	3710093.8328	4238966.0478	1362.5900	Plymouth Co GPS Pt
93	3725193.6034	4239022.3906	1376.4100	Plymouth Co GPS Pt
94	3741293.6413	4238168.6736	1457.2200	Plymouth Co GPS Pt
95	3756743.4647	4240119.5947	1423.2400	Plymouth Co GPS Pt
96	3773635.0672	4241028.4107	1308.3500	Plymouth Co GPS Pt
97	3788127.0621	4241423.9480	1355.9500	Plymouth Co GPS Pt
98	3804930.9114	4241868.3881	1399.4600	Plymouth Co GPS Pt
99	3678265.8742	4253727.0936	1349.5400	Plymouth Co GPS Pt
100	3693331.9343	4254304.1499	1221.9800	Plymouth Co GPS Pt
101	3709187.9780	4254755.2948	1366.2400	Plymouth Co GPS Pt
102	3725074.2588	4255032.6017	1382.2900	Plymouth Co GPS Pt
103	3740603.1380	4255397.8935	1396.4000	Plymouth Co GPS Pt
104	3756693.2447	4256174.8702	1432.0500	Plymouth Co GPS Pt
105	3772706.3673	4256930.5165	1311.5500	Plymouth Co GPS Pt
106	3788455.2726	4257451.3169	1408.8300	Plymouth Co GPS Pt
107	3803405.3669	4257670.8108	1391.6500	Plymouth Co GPS Pt
108	3676729.6788	4269772.2540	1413.7500	Plymouth Co GPS Pt
109	3692510.9384	4270403.4954	1350.2100	Plymouth Co GPS Pt

110	3708688.4802	4270692.8442	1365.6100	Plymouth Co GPS Pt
111	3724043.1246	4271048.5356	1401.9900	Plymouth Co GPS Pt
112	3740721.9192	4271358.3766	1404.1500	Plymouth Co GPS Pt
113	3756766.4620	4272063.9720	1466.7600	Plymouth Co GPS Pt
114	3773179.6811	4272710.8762	1431.1600	Plymouth Co GPS Pt
115	3787923.1942	4273280.3779	1344.3400	Plymouth Co GPS Pt
116	3803824.7641	4273486.9060	1434.0000	Plymouth Co GPS Pt
117	3676139.5086	4285500.7398	1316.1800	Plymouth Co. 95-117
118	3692110.1460	4286142.5391	1405.2500	Plymouth Co. 95-118
119	3708337.3041	4286488.2584	1307.7700	Plymouth Co. 95-119
120	3723747.4526	4286810.9905	1366.3400	Plymouth Co. 95-120
121	3739108.1794	4287133.4488	1419.9700	Plymouth Co. 95-121
122	3755618.7462	4287886.2517	1408.2600	Plymouth Co. 95-122
123	3771667.4919	4288609.6541	1428.1100	Plymouth Co. 95-123
124	3787407.6794	4288943.6785	1421.9500	Plymouth Co. 95-124
125	3703946.7661	4167449.8545	1326.9900	Plymouth Co GPS Pt
126	3753138.2797	4192612.7971	1218.5400	Plymouth Co GPS Pt
127	3752880.8203	4203359.6233	1321.2200	Plymouth Co GPS Pt
128	3774450.1661	4203796.4309	1301.5900	Plymouth Co GPS Pt
129	3752614.6837	4212990.9545	1372.4500	Plymouth Co GPS Pt
130	3773715.3552	4214081.0957	1342.2600	Plymouth Co GPS Pt
200	3802867.3531	4289211.1922	1445.1900	USGS BM "38 T"
201	3771974.3629	4302945.2650	1473.7500	NGS BM "MARCUS"
202	3771218.6391	4309695.3950	1416.7100	NGS BM "X 24"
203	3729628.7218	4286872.7061	1415.4900	USGS BM "21 T"
204	3669996.9943	4283252.7761	1270.0300	TBM near NGS BM "L 14"
205	3660848.1598	4291037.8281	1195.6100	NGS BM "K 14"
207	3770553.3736	4258267.1571	1324.2000	TBM near NGS BM
"REMSSEN"				
208	3763812.1576	4206240.6156	1229.7300	TBM near NGS BM "LE
MARS"				
212	3763352.1028	4091189.2899	1139.0900	IaHARN "A 146"
214	3806444.7649	4038658.2189	1279.8800	NGS BM "C 447"
300	3797610.6257	4313584.3487	1474.2200	
301	3803909.6295	4271418.1355	1461.2500	
302	3761387.8157	4271299.4410	1474.2000	
303	3804844.4282	4245073.2080	1422.9300	IaHarn "HOMAN RESET"
304	3762999.4312	4223438.1514	1409.2000	
305	3760888.3284	4207281.3156	1294.7772	
306	3726603.5738	4208857.5311	1436.0000	
307	3785075.8560	4166911.8967	1461.5300	
308	3729265.8493	4159002.2971	1478.0800	
309	3678414.4974	4143948.4070	1420.4900	
310	3809879.6039	4046690.6201	1421.2200	
A4002	3725280.6791	4086214.8556	1114.2607	
A4061	3767925.2993	4085927.4570	1131.5413	
A4581	3803505.8170	4115074.5405	1173.6900	Sec Cor 1st order

Coordinate Changes from Entered Provisionals (US Feet)

Station	dN	dE	dZ
1	n/a	n/a	0.0000
2	n/a	n/a	0.0000
3	n/a	n/a	0.0000
4	n/a	n/a	0.0000
5	n/a	n/a	0.0000
7	n/a	n/a	0.0000
8	n/a	n/a	0.0000
9	n/a	n/a	0.0000
10	n/a	n/a	0.0000
11	n/a	n/a	0.0000
12	n/a	n/a	0.0000
13	n/a	n/a	0.0000
14	n/a	n/a	0.0000
15	n/a	n/a	0.0000
16	n/a	n/a	0.0000
17	n/a	n/a	0.0000
18	n/a	n/a	0.0000
19	n/a	n/a	0.0000
20	n/a	n/a	0.0000
21	n/a	n/a	0.0000
22	n/a	n/a	0.0000
23	n/a	n/a	0.0000
24	n/a	n/a	0.0000
25	n/a	n/a	0.0000
26	n/a	n/a	0.0000
27	n/a	n/a	0.0000
28	n/a	n/a	0.0000
29	n/a	n/a	0.0000
30	n/a	n/a	0.0000
31	n/a	n/a	0.0000
32	n/a	n/a	0.0000
33	n/a	n/a	0.0000
34	n/a	n/a	0.0000
35	n/a	n/a	0.0000
36	n/a	n/a	0.0000
37	n/a	n/a	0.0000
38	n/a	n/a	0.0000
39	n/a	n/a	0.0000
40	n/a	n/a	0.0000
41	n/a	n/a	0.0000
42	n/a	n/a	0.0000
43	n/a	n/a	0.0000
44	n/a	n/a	0.0000
45	n/a	n/a	0.0000
46	n/a	n/a	0.0000
47	n/a	n/a	0.0000
48	0.0000	0.0000	0.0000
49	n/a	n/a	0.0000
50	n/a	n/a	0.0000
51	n/a	n/a	0.0000
52	n/a	n/a	0.0000
53	n/a	n/a	0.0000
54	n/a	n/a	0.0000
55	n/a	n/a	0.0000

56	n/a	n/a	0.0000
57	n/a	n/a	0.0000
58	n/a	n/a	0.0000
59	n/a	n/a	0.0000
60	n/a	n/a	0.0000
61	n/a	n/a	0.0000
62	n/a	n/a	0.0000
63	n/a	n/a	0.0000
64	n/a	n/a	0.0000
65	n/a	n/a	0.0000
66	n/a	n/a	0.0000
67	n/a	n/a	0.0000
68	n/a	n/a	0.0000
69	n/a	n/a	0.0000
70	n/a	n/a	0.0000
71	n/a	n/a	0.0000
72	n/a	n/a	0.0000
73	n/a	n/a	0.0000
74	n/a	n/a	0.0000
75	n/a	n/a	0.0000
76	n/a	n/a	0.0000
77	n/a	n/a	0.0000
78	n/a	n/a	0.0000
79	n/a	n/a	0.0000
80	n/a	n/a	0.0000
81	n/a	n/a	0.0000
82	n/a	n/a	0.0000
83	n/a	n/a	0.0000
84	n/a	n/a	0.0000
85	n/a	n/a	0.0000
86	n/a	n/a	0.0000
87	n/a	n/a	0.0000
88	n/a	n/a	0.0000
89	n/a	n/a	0.0000
90	n/a	n/a	0.0000
91	n/a	n/a	0.0000
92	n/a	n/a	0.0000
93	n/a	n/a	0.0000
94	n/a	n/a	0.0000
95	n/a	n/a	0.0000
96	n/a	n/a	0.0000
97	n/a	n/a	0.0000
98	n/a	n/a	0.0000
99	n/a	n/a	0.0000
100	n/a	n/a	0.0000
101	n/a	n/a	0.0000
102	n/a	n/a	0.0000
103	n/a	n/a	0.0000
104	n/a	n/a	0.0000
105	n/a	n/a	0.0000
106	n/a	n/a	0.0000
107	n/a	n/a	0.0000
108	n/a	n/a	0.0000
109	n/a	n/a	0.0000
110	n/a	n/a	0.0000
111	n/a	n/a	0.0000
112	n/a	n/a	0.0000

113	n/a	n/a	0.0000
114	n/a	n/a	0.0000
115	n/a	n/a	0.0000
116	n/a	n/a	0.0000
117	0.0000	0.0000	0.0000
118	0.0000	0.0000	0.0000
119	0.0000	0.0000	0.0000
120	0.0000	0.0000	0.0000
121	0.0000	0.0000	0.0000
122	0.0000	0.0000	0.0000
123	0.0000	0.0000	0.0000
124	0.0000	0.0000	0.0000
125	n/a	n/a	0.0000
126	n/a	n/a	0.0000
127	n/a	n/a	0.0000
128	n/a	n/a	0.0000
129	n/a	n/a	0.0000
130	n/a	n/a	0.0000
200	n/a	n/a	0.0000
201	n/a	n/a	0.0000
202	n/a	n/a	0.0000
203	n/a	n/a	0.0000
204	n/a	n/a	0.0000
205	n/a	n/a	0.0000
207	n/a	n/a	0.0000
208	n/a	n/a	0.0000
212	0.0000	0.0000	0.0000
214	n/a	n/a	0.0000
300	n/a	n/a	0.0000
301	n/a	n/a	0.0000
302	n/a	n/a	0.0000
303	0.0000	0.0000	0.0000
304	n/a	n/a	0.0000
306	n/a	n/a	0.0000
307	n/a	n/a	0.0000
308	n/a	n/a	0.0000
309	n/a	n/a	0.0000
310	n/a	n/a	0.0000
A4581	n/a	n/a	0.0000

Adjusted Positions and Ellipsoid Heights (US Feet)

Station	Latitude	Longitude	Ellip Ht	Geoid Ht
1	42-41-31.173632	96-38-44.306706	1035.4429	-84.0171
2	42-44-15.503109	96-38-58.952700	1033.7638	-83.9662
3	42-47-37.801323	96-38-44.295001	1104.7897	-83.9003
4	42-41-34.032678	96-36-22.874937	1024.8642	-84.1558
5	42-44-05.805800	96-36-45.360797	1052.3100	-84.0800
7	42-49-19.909582	96-36-18.428844	1048.5075	-84.0225
8	42-51-56.435989	96-36-23.773051	1209.1416	-84.0284
9	42-36-18.835970	96-34-00.391633	1028.1513	-84.4287
10	42-38-57.520715	96-34-01.623183	1025.4399	-84.3701
11	42-41-37.584587	96-34-00.068676	1121.3132	-84.2868
12	42-43-53.284796	96-33-58.850627	1329.8549	-84.2251
13	42-47-12.002923	96-33-57.973658	1187.3422	-84.1878
14	42-49-21.528562	96-33-51.403084	1065.5991	-84.1809
15	42-51-57.374137	96-34-02.428141	1121.5773	-84.2027
16	42-54-23.359950	96-34-02.165737	1243.1817	-84.2783
17	42-33-39.530887	96-31-38.254966	1024.9260	-84.7140
18	42-36-19.104161	96-30-08.331206	1023.8427	-84.7473
19	42-38-59.935010	96-29-57.471781	1042.0116	-84.6584
20	42-41-35.573688	96-30-33.319339	1243.0124	-84.5276
21	42-44-08.769801	96-30-23.959009	1309.9379	-84.4621
22	42-46-53.253484	96-30-25.753765	1232.5709	-84.4191
23	42-49-21.687252	96-30-28.658547	1283.4682	-84.4118
24	42-52-00.741543	96-30-30.480207	1194.8394	-84.4606
25	42-54-32.237872	96-30-34.324298	1098.5639	-84.5461
26	42-33-41.220952	96-28-50.592755	1031.0274	-84.9426
27	42-33-50.877689	96-26-48.038582	1192.8723	-85.1077
28	42-36-18.688630	96-26-49.570508	1407.4496	-85.0004
29	42-39-53.312312	96-26-58.519893	1226.4952	-84.8448
30	42-41-32.626327	96-26-56.692097	1209.3310	-84.7990
31	42-43-58.889293	96-26-55.029751	1213.2642	-84.7458
32	42-46-44.668658	96-26-53.702688	1274.5817	-84.7083
33	42-49-17.241909	96-26-56.944721	1333.5924	-84.6876
34	42-51-59.601299	96-26-58.644468	1176.8235	-84.7465
35	42-54-29.694870	96-27-01.658189	1275.7072	-84.8328
36	42-33-52.003836	96-23-56.649026	1088.3054	-85.3946
37	42-36-26.009653	96-23-24.440461	1265.4572	-85.3428
38	42-38-56.299590	96-23-17.004551	1280.1253	-85.2347
39	42-41-31.866812	96-23-18.435399	1311.7595	-85.1305
40	42-44-07.913752	96-23-15.926446	1292.4557	-85.0543
41	42-46-45.021634	96-23-24.521224	1272.6212	-84.9988
42	42-49-16.911215	96-23-24.744849	1272.0207	-84.9893
43	42-51-55.990019	96-23-30.741493	1346.1524	-85.0276
44	42-54-33.283674	96-23-13.856188	1256.7495	-85.1405
45	42-33-44.646804	96-19-50.506073	1035.3576	-85.8624
46	42-35-28.586805	96-19-54.557253	1269.8616	-85.7884
47	42-38-55.121012	96-19-54.430645	1342.6319	-85.6281
48	42-41-28.415220	96-19-51.608820	1356.8390	-85.5010
49	42-44-06.870988	96-19-51.004495	1301.4367	-85.3933
50	42-46-39.061062	96-19-52.222380	1341.1765	-85.3235
51	42-49-18.469617	96-19-52.447298	1344.4122	-85.2878
52	42-51-55.043305	96-19-56.084663	1365.5036	-85.2864
53	42-54-33.484637	96-19-54.145217	1336.0930	-85.3570
54	42-33-40.510171	96-16-21.265778	1206.0520	-86.2280
55	42-36-17.143411	96-15-55.798621	1209.7420	-86.1780

56	42-38-49.894527	96-16-03.372381	1082.0894	-86.0606
57	42-41-49.833472	96-16-21.244921	1113.6509	-85.8791
58	42-43-47.525055	96-16-23.150852	1272.0178	-85.7822
59	42-46-42.661786	96-16-21.248973	1142.0625	-85.6875
60	42-49-19.178623	96-16-31.198305	1235.8462	-85.5938
61	42-51-51.748125	96-16-21.715877	1280.2807	-85.5593
62	42-54-27.542246	96-16-22.384993	1358.4606	-85.5794
63	42-33-37.472384	96-12-50.322148	1190.1208	-86.5692
64	42-36-17.873467	96-12-49.513261	1219.7338	-86.4462
65	42-38-44.438979	96-12-48.902651	1257.5800	-86.3300
66	42-41-24.740143	96-12-49.460200	1229.0774	-86.2126
67	42-44-14.831463	96-13-06.395929	1103.1915	-86.0985
68	42-46-56.129363	96-12-48.675258	1124.8708	-86.0392
69	42-49-22.328704	96-12-48.489545	1137.1610	-85.9490
70	42-51-58.345977	96-12-49.999003	1242.4748	-85.8652
71	42-54-33.481791	96-12-37.873604	1267.4537	-85.8763
72	42-33-41.314011	96-09-16.286557	1206.1781	-86.8719
73	42-36-15.951733	96-09-01.964815	1223.2544	-86.7656
74	42-38-56.307888	96-09-21.207640	1274.7328	-86.6072
75	42-41-24.265264	96-09-18.458663	1324.5254	-86.5246
76	42-44-06.356475	96-09-20.109169	1144.9424	-86.4576
77	42-46-43.726308	96-09-20.022363	1242.4560	-86.3840
78	42-49-20.008828	96-09-01.084814	1136.2074	-86.3326
79	42-51-49.247641	96-09-17.345085	1222.9479	-86.2221
80	42-54-30.211841	96-09-19.364521	1252.5299	-86.1901
81	42-33-41.001998	96-06-01.233282	1188.9121	-87.1779
82	42-36-17.687413	96-05-46.725552	1163.8847	-87.0753
83	42-38-56.744646	96-05-51.042615	1223.7050	-86.9450
84	42-41-32.489921	96-05-47.068122	1328.4970	-86.8730
85	42-44-03.621712	96-05-49.915229	1291.9071	-86.8029
86	42-46-43.920694	96-05-46.846063	1273.7237	-86.7363
87	42-49-19.967069	96-05-43.688655	1191.2892	-86.6708
88	42-52-07.686922	96-05-43.924447	1221.8223	-86.5877
89	42-54-35.753839	96-05-41.180554	1276.3389	-86.5611
90	42-34-32.320918	96-02-11.578060	1248.2297	-87.5503
91	42-36-15.691713	96-02-11.310201	1273.0617	-87.4783
92	42-38-59.380087	96-02-11.567947	1275.2177	-87.3723
93	42-41-28.489422	96-02-16.879710	1289.1255	-87.2845
94	42-44-07.203713	96-02-34.790575	1370.0583	-87.1617
95	42-46-40.329048	96-02-14.872821	1336.1187	-87.1213
96	42-49-27.379035	96-02-09.485290	1221.2919	-87.0581
97	42-51-50.582813	96-02-10.013024	1268.9654	-86.9846
98	42-54-36.625472	96-02-10.816466	1312.5298	-86.9302
99	42-33-49.433641	95-58-41.639397	1261.5657	-87.9743
100	42-36-18.365671	95-58-39.831279	1134.0438	-87.9362
101	42-38-55.060648	95-58-40.014652	1278.3837	-87.8563
102	42-41-32.002699	95-58-42.536996	1294.5451	-87.7449
103	42-44-05.440012	95-58-43.743945	1308.7576	-87.6424
104	42-46-44.536715	95-58-39.655065	1344.5013	-87.5487
105	42-49-22.865614	95-58-35.816230	1224.0762	-87.4738
106	42-51-58.516208	95-58-35.020334	1321.4462	-87.3838
107	42-54-26.190935	95-58-37.955972	1304.3239	-87.3261
108	42-33-38.854584	95-55-06.722339	1325.3612	-88.3888
109	42-36-14.863139	95-55-04.321179	1261.8519	-88.3581
110	42-38-54.687047	95-55-06.641465	1277.3061	-88.3039
111	42-41-26.403035	95-55-07.761775	1313.7993	-88.1907
112	42-44-11.179714	95-55-10.005453	1316.0665	-88.0835

113	42-46-49	804142	95-55-06	704136	1378	7804	-87	9796
114	42-49-32	050788	95-55-04	326900	1343	2739	-87	8861
115	42-51-57	787513	95-55-02	344179	1256	5364	-87	8036
116	42-54-34	854685	95-55-05	679248	1346	2780	-87	7220
117	42-33-37	417670	95-51-36	408250	1227	3784	-88	8016
118	42-36-15	297900	95-51-33	790710	1316	5176	-88	7324
119	42-38-55	628430	95-51-35	225730	1219	0984	-88	6716
120	42-41-27	883930	95-51-36	665100	1277	7430	-88	5970
121	42-43-59	650170	95-51-38	091600	1331	4686	-88	5014
122	42-46-42	887610	95-51-34	182140	1319	8441	-88	4159
123	42-49-21	555280	95-51-30	488490	1339	7778	-88	3322
124	42-51-57	067370	95-51-31	900730	1333	7144	-88	2356
125	42-37-36	387158	96-18-05	335147	1241	0724	-85	9176
126	42-45-50	160995	96-12-50	027645	1132	4661	-86	0739
127	42-45-51	001298	96-10-25	915067	1234	9169	-86	3031
128	42-49-24	094154	96-10-29	209598	1215	4082	-86	1818
129	42-45-51	362132	96-08-16	745331	1285	9402	-86	5098
130	42-49-20	030012	96-08-10	957983	1255	8438	-86	4162
200	42-54-29	789765	95-51-34	103140	1357	0399	-88	1501
201	42-49-28	490741	95-48-18	302996	1385	0012	-88	7488
202	42-49-22	836359	95-46-47	479818	1327	7447	-88	9653
203	42-42-25	974849	95-51-38	037762	1326	9295	-88	5605
204	42-32-36	141879	95-52-04	136600	1181	2549	-88	7751
205	42-31-07	940301	95-50-16	795989	1106	5847	-89	0253
207	42-49-01	993808	95-58-17	042958	1236	6791	-87	5209
208	42-47-39	826441	96-09-51	928636	1143	4222	-86	3078
212	42-46-56	594290	96-35-33	847530	1054	9855	-84	1045
214	42-53-42	360082	96-47-40	285640	1196	2630	-83	6170
300	42-53-44	472633	95-46-04	812633	1385	2949	-88	9251
301	42-54-35	107227	95-55-33	500188	1373	5822	-87	6678
302	42-47-35	219276	95-55-18	727336	1386	2757	-87	9243
303	42-54-36	718970	96-01-27	734990	1335	9204	-87	0096
304	42-47-37	090959	96-06-01	033856	1322	5154	-86	6846
305	42-47-11	282711	96-09-36	742906	1208	4307	-86	3466
306	42-41-33	268585	96-09-01	201832	1349	4529	-86	5471
307	42-50-57	174390	96-18-48	638648	1376	1596	-85	3704
308	42-41-43	575784	96-20-09	633319	1392	6239	-85	4561
309	42-33-16	504291	96-23-07	872581	1334	9891	-85	5009
310	42-54-19	340640	96-45-54	235666	1337	5781	-83	6419
A4002	42-40-38	969765	96-36-21	757303	1030	0858	-84	1750
A4061	42-47-39	830884	96-36-46	620213	1047	5218	-84	0196
A4581	42-53-41	485256	96-30-32	904740	1089	1756	-84	5144
						Average:	-86	1761

Statistical Summary

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Number of Stations = 153
Number of Observations = 654
Number of Unknowns = 291
Number of Redundant Obs = 363

Observation	Count	Sum Squares of StdRes	Error Factor
GPS Deltas	654	362.29	1.00
Total	654	362.29	1.00

Adjustment Passes the Chi Square Test at 5% Level

Adjusted Observations and Residuals

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Adjusted GPS Vector Observations Sorted by Names (US Feet)

Datum Transformations			StdDev		
Scale Factor	0.999998809224	:	1.190776 PPM	0.2075	(Solved)
Rotation Around North Axis		:	0.155222 Sec	0.0440	(Solved)
Rotation Around East Axis		:	0.091688 Sec	0.0418	(Solved)
Rotation Around Vert Axis		:	0.037799 Sec	0.0431	(Solved)

From	Component	Adj Value	Residual	StdErr	StdRes
To					
(V199 Day167(2) 22:00 00001224.SSF)					
1	Delta-N	16637.2947	-0.0029	0.0289	0.1
2	Delta-E	-1093.0443	-0.0147	0.0284	0.5
	Delta-U	-8.3272	0.0241	0.0384	0.6
	Length	16673.1638			
(V201 Day167(2) 22:29 00001232.SSF)					
2	Delta-N	20481.6290	-0.0203	0.0291	0.7
3	Delta-E	1092.9266	-0.0170	0.0283	0.6
	Delta-U	60.9611	0.1059	0.0371	2.9
	Length	20510.8589			
(V200 Day167(2) 22:35 00001228.SSF)					
2	Delta-N	16314.7224	-0.0005	0.0292	0.0
212	Delta-E	15296.1495	0.0123	0.0283	0.4
	Delta-U	9.2622	0.0367	0.0370	1.0
	Length	22363.8646			
(V204 Day167(2) 23:41 00001260.SSF)					
3	Delta-N	10340.5737	-0.0110	0.0282	0.4
7	Delta-E	10871.3011	-0.0195	0.0281	0.7
	Delta-U	-61.6657	0.0585	0.0319	1.8
	Length	15003.8813			
(V202 Day167(2) 23:09 00001248.SSF)					
3	Delta-N	207.1846	0.0022	0.0313	0.1
A4061	Delta-E	8774.1479	0.0014	0.0289	0.0
	Delta-U	-59.1121	-0.0158	0.0450	0.4
	Length	8776.7928			
(V217 Day168(0) 14:47 00001876.SSF)					
4	Delta-N	-287.0048	-0.0033	0.0284	0.1
1	Delta-E	-10562.8958	-0.0148	0.0282	0.5
	Delta-U	7.9229	-0.0142	0.0332	0.4
	Length	10566.7972			
(V198 Day167(2) 21:38 00001212.SSF)					
4	Delta-N	362.1127	0.0068	0.0289	0.2
11	Delta-E	10665.2894	0.0186	0.0283	0.7
	Delta-U	93.7242	0.0114	0.0413	0.3
	Length	10671.8465			
(V196 Day167(2) 21:19 00001204.SSF)					
4	Delta-N	-5574.7248	-0.0028	0.0287	0.1
A4002	Delta-E	83.4915	-0.0040	0.0284	0.1
	Delta-U	4.4749	-0.0071	0.0395	0.2
	Length	5575.3518			

(V216 Day167(3) 22:10 00001324 SSF)					
5	Delta-N	983.9811	-0.0052	0.0293	0.2
2	Delta-E	-9970.0619	0.0091	0.0287	0.3
	Delta-U	-20.9327	0.0674	0.0407	1.7
	Length	10018.5224			
(V206 Day168(2) 00:33 00001268 SSF)					
7	Delta-N	15847.7548	-0.0174	0.0283	0.6
8	Delta-E	-398.0267	-0.0056	0.0281	0.2
	Delta-U	154.6239	-0.0024	0.0331	0.1
	Length	15853.5064			
(V205 Day167(2) 23:41 00001264 SSF)					
7	Delta-N	166.5708	0.0160	0.0283	0.6
14	Delta-E	10957.6569	-0.0032	0.0281	0.1
	Delta-U	14.2181	-0.0146	0.0326	0.4
	Length	10958.9321			
(V207 Day168(2) 00:36 00001272 SSF)					
7	Delta-N	30357.2853	-0.0114	0.0287	0.4
310	Delta-E	-42857.4550	-0.0109	0.0283	0.4
	Delta-U	223.2346	-0.0649	0.0362	1.8
	Length	52520.2443			
(V209 Day168(4) 01:05 00001288 SSF)					
8	Delta-N	97.4398	-0.0008	0.0284	0.0
15	Delta-E	10526.9453	-0.0116	0.0281	0.4
	Delta-U	-90.2161	-0.0470	0.0346	1.4
	Length	10527.7828			
(V210 Day168(4) 01:35 00001292 SSF)					
8	Delta-N	14878.1348	-0.0160	0.0291	0.6
16	Delta-E	10539.6412	-0.0072	0.0294	0.2
	Delta-U	26.0884	0.0302	0.0380	0.8
	Length	18233.0363			
(V211 Day168(4) 01:51 00001296 SSF)					
8	Delta-N	10780.6802	-0.0122	0.0292	0.4
214	Delta-E	-50361.0028	-0.0031	0.0287	0.1
	Delta-U	-76.1218	0.0378	0.0356	1.1
	Length	51502.0336			
(V194 Day167(1) 20:15 00001188 SSF)					
9	Delta-N	-16125.7200	-0.0136	0.0299	0.5
17	Delta-E	10637.8225	-0.0166	0.0296	0.6
	Delta-U	-12.1661	0.0140	0.0385	0.4
	Length	19318.4436			
(V193 Day167(1) 19:32 00001184 SSF)					
10	Delta-N	-16065.5261	-0.0135	0.0321	0.4
9	Delta-E	92.1097	-0.0152	0.0287	0.5
	Delta-U	-3.4753	0.0028	0.0389	0.1
	Length	16065.7905			
(V190 Day167(1) 18:46 00001168 SSF)					
11	Delta-N	-16205.2749	-0.0067	0.0313	0.2
10	Delta-E	-116.1756	-0.0212	0.0301	0.7
	Delta-U	-102.1680	-0.0911	0.0547	1.7
	Length	16206.0133			
(V214 Day168(2) 03:02 00001312 SSF)					
12	Delta-N	1271.0755	-0.0036	0.0283	0.1
5	Delta-E	-12427.3249	0.0078	0.0280	0.3
	Delta-U	-281.2574	0.0249	0.0321	0.8
	Length	12495.3248			

(V191 Day167(1) 18:46 00001172 SSF)						
12	Delta-N	-29944.0014	0.0003	0.0307	0.0	
10	Delta-E	-207.2060	-0.0084	0.0297	0.3	
	Delta-U	-325.8964	0.0189	0.0511	0.4	
	Length	29946.4916				
(V189 Day167(1) 18:16 00001160 SSF)						
12	Delta-N	-13738.7977	-0.0053	0.0303	0.2	
11	Delta-E	-90.9660	-0.0348	0.0297	1.2	
	Delta-U	-213.0666	-0.0363	0.0499	0.7	
	Length	13740.7509				
(V215 Day168(2) 03:02 00001316 SSF)						
12	Delta-N	1573.4521	0.0065	0.0281	0.2	
21	Delta-E	16038.2102	-0.0047	0.0279	0.2	
	Delta-U	-26.1242	0.0090	0.0301	0.3	
	Length	16115.2295				
(V188 Day167(1) 17:31 00001156 SSF)						
13	Delta-N	-20119.3314	-0.0019	0.0285	0.1	
12	Delta-E	-65.4524	-0.0369	0.0284	1.3	
	Delta-U	132.8125	0.0192	0.0333	0.6	
	Length	20119.8762				
(V187 Day167(1) 17:31 00001152 SSF)						
14	Delta-N	-13113.9093	-0.0264	0.0290	0.9	
13	Delta-E	-489.9814	-0.0156	0.0288	0.5	
	Delta-U	117.6147	0.0166	0.0364	0.5	
	Length	13123.5869				
(V186 Day167(1) 16:27 00001144 SSF)						
14	Delta-N	15778.7692	0.0221	0.0284	0.8	
15	Delta-E	-821.1161	0.0057	0.0285	0.2	
	Delta-U	50.0084	0.0001	0.0318	0.0	
	Length	15800.1990				
(V184 Day167(1) 16:00 00001132 SSF)						
16	Delta-N	-14780.6008	-0.0208	0.0290	0.7	
15	Delta-E	-19.5404	0.0052	0.0288	0.2	
	Delta-U	-126.8410	0.0620	0.0363	1.7	
	Length	14781.1580				
(V212 Day168(2) 01:51 00001304 SSF)						
16	Delta-N	-4068.9157	0.0083	0.0290	0.3	
214	Delta-E	-60902.4919	0.0008	0.0286	0.0	
	Delta-U	-135.7538	0.0154	0.0347	0.4	
	Length	61038.4143				
(V195 Day167(1) 20:15 00001196 SSF)						
17	Delta-N	174.5549	-0.0126	0.0288	0.4	
26	Delta-E	12548.1164	-0.0155	0.0287	0.5	
	Delta-U	2.3348	0.0256	0.0335	0.8	
	Length	12549.3307				
(V168 Day167(4) 00:53 00001036 SSF)						
18	Delta-N	16282.8281	-0.0110	0.0284	0.4	
19	Delta-E	811.5848	-0.0024	0.0282	0.1	
	Delta-U	11.8112	0.0238	0.0333	0.7	
	Length	16303.0458				
(V192 Day167(1) 19:32 00001180 SSF)						
19	Delta-N	-237.1150	-0.0135	0.0325	0.4	
10	Delta-E	-18247.0272	0.0106	0.0288	0.4	
	Delta-U	-24.5022	0.0030	0.0401	0.1	
	Length	18248.5842				

(V172 Day167(0) 12:02 00001056.SSF)						
19	Delta-N	15757.5787	0.0130	0.0286	0.5	
20	Delta-E	-2677.2680	-0.0064	0.0283	0.2	
	Delta-U	194.8931	0.0289	0.0370	0.8	
	Length	15984.5874				
(V218 Day167(0) 12:02 00001052.SSF)						
19	Delta-N	5408.0257	-0.0103	0.0288	0.4	
29	Delta-E	13371.0504	-0.0052	0.0283	0.2	
	Delta-U	179.5100	0.0383	0.0374	1.0	
	Length	14424.4221				
(V173 Day167(0) 12:32 00001068.SSF)						
20	Delta-N	15510.3048	0.0114	0.0282	0.4	
21	Delta-E	698.5957	-0.0069	0.0281	0.2	
	Delta-U	61.1598	0.0175	0.0329	0.5	
	Length	15526.1499				
(V175 Day167(0) 13:09 00001080.SSF)						
21	Delta-N	16653.1676	0.0183	0.0283	0.6	
22	Delta-E	-133.8540	-0.0004	0.0285	0.0	
	Delta-U	-84.0002	0.0131	0.0338	0.4	
	Length	16653.9174				
(V174 Day167(0) 12:32 00001072.SSF)						
21	Delta-N	-994.9857	-0.0020	0.0285	0.1	
31	Delta-E	15593.8320	-0.0119	0.0284	0.4	
	Delta-U	-102.5107	-0.0255	0.0369	0.7	
	Length	15625.8792				
(V176 Day167(0) 13:09 00001084.SSF)						
22	Delta-N	15028.3444	0.0184	0.0281	0.7	
23	Delta-E	-216.4948	-0.0003	0.0282	0.0	
	Delta-U	45.4951	0.0012	0.0314	0.0	
	Length	15029.9725				
(V185 Day167(1) 16:27 00001140.SSF)						
23	Delta-N	-11.0215	-0.0193	0.0284	0.7	
14	Delta-E	-15110.3108	-0.0044	0.0286	0.2	
	Delta-U	-223.3041	0.0298	0.0320	0.9	
	Length	15111.9648				
(V177 Day167(0) 14:14 00001096.SSF)						
23	Delta-N	16103.6826	0.0117	0.0285	0.4	
24	Delta-E	-135.6732	0.0034	0.0281	0.1	
	Delta-U	-94.8312	-0.0184	0.0312	0.6	
	Length	16104.5333				
(V178 Day167(0) 13:37 00001100.SSF)						
23	Delta-N	-444.5690	0.0258	0.0281	0.9	
33	Delta-E	15779.2856	0.0013	0.0280	0.0	
	Delta-U	44.1674	0.0323	0.0297	1.1	
	Length	15785.6088				
(V179 Day167(0) 14:20 00001104.SSF)						
24	Delta-N	10199.9574	0.0145	0.0295	0.5	
A4581	Delta-E	-180.4894	0.0024	0.0284	0.1	
	Delta-U	-108.1509	-0.0475	0.0358	1.3	
	Length	10202.1275				
(V183 Day167(1) 16:00 00001128.SSF)						
25	Delta-N	-893.5668	0.0034	0.0292	0.1	
16	Delta-E	-15469.3600	0.0110	0.0289	0.4	
	Delta-U	138.9014	0.0438	0.0374	1.2	
	Length	15495.7689				

(V182 Day167(1) 15:15 00001120.SSF)						
25	Delta-N	-251.9157	0.0085	0.0295	0.3	
35	Delta-E	15828.0284	-0.0070	0.0288	0.2	
	Delta-U	171.1529	0.0107	0.0416	0.3	
	Length	15830.9583				
(V167 Day167(5) 00:53 00001032.SSF)						
26	Delta-N	15984.9912	-0.0111	0.0283	0.4	
18	Delta-E	-5813.9990	-0.0027	0.0281	0.1	
	Delta-U	-14.0980	0.0118	0.0326	0.4	
	Length	17009.4893				
(V165 Day167(0) 00:12 00001016.SSF)						
27	Delta-N	-975.8130	0.0002	0.0288	0.0	
26	Delta-E	-9172.1568	0.0117	0.0284	0.4	
	Delta-U	-163.8679	0.0335	0.0384	0.9	
	Length	9225.3739				
(V166 Day167(0) 00:12 00001020.SSF)						
27	Delta-N	117.6191	0.0018	0.0297	0.1	
36	Delta-E	12826.4984	-0.0152	0.0290	0.5	
	Delta-U	-108.5017	0.0569	0.0466	1.2	
	Length	12827.4966				
(V164 Day166(5) 23:36 00001012.SSF)						
28	Delta-N	-14964.6492	-0.0077	0.0316	0.2	
27	Delta-E	114.6504	-0.0007	0.0295	0.0	
	Delta-U	-219.9456	0.0635	0.0485	1.3	
	Length	14966.7045				
(V163 Day166(4) 23:36 00001004.SSF)						
29	Delta-N	-21729.2964	-0.0017	0.0301	0.1	
28	Delta-E	669.3349	-0.0003	0.0288	0.0	
	Delta-U	169.6291	0.0198	0.0404	0.5	
	Length	21740.2646				
(V162 Day166(3) 22:49 00001000.SSF)						
29	Delta-N	-5766.1419	0.0001	0.0300	0.0	
38	Delta-E	16555.5796	-0.0067	0.0283	0.2	
	Delta-U	46.2802	-0.0278	0.0354	0.8	
	Length	17531.0510				
(V161 Day166(3) 22:49 00000992.SSF)						
30	Delta-N	-10054.9140	0.0242	0.0336	0.7	
29	Delta-E	-136.5687	-0.0019	0.0294	0.1	
	Delta-U	14.7389	-0.0684	0.0477	1.4	
	Length	10055.8522				
(V160 Day166(2) 22:16 00000988.SSF)						
31	Delta-N	-14808.2733	0.0111	0.0288	0.4	
30	Delta-E	-124.1506	-0.0026	0.0284	0.1	
	Delta-U	-9.1898	-0.0470	0.0356	1.3	
	Length	14808.7966				
(V158 Day166(1) 21:14 00000976.SSF)						
32	Delta-N	-16784.3255	0.0141	0.0288	0.5	
31	Delta-E	-99.0448	0.0000	0.0285	0.0	
	Delta-U	-68.0696	-0.0130	0.0397	0.3	
	Length	16784.7557				
(V157 Day166(1) 21:14 00000972.SSF)						
33	Delta-N	-15447.4371	0.0132	0.0286	0.5	
32	Delta-E	241.7997	0.0007	0.0284	0.0	
	Delta-U	-64.7318	-0.0312	0.0377	0.8	
	Length	15449.4650				

(V180 Day167(0) 13:37 00001108.SSF)						
33	Delta-N	16438.2956	0.0125	0.0284	0.4	
34	Delta-E	-126.5943	0.0110	0.0283	0.4	
	Delta-U	-163.2317	0.0020	0.0314	0.1	
	Length	16439.5934				
(V154 Day166(1) 19:57 00000952.SSF)						
35	Delta-N	-15196.5405	-0.0170	0.0333	0.5	
34	Delta-E	224.4540	-0.0117	0.0296	0.4	
	Delta-U	-104.4204	-0.0188	0.0416	0.5	
	Length	15198.5567				
(V141 Day166(0) 15:29 00000876.SSF)						
36	Delta-N	15592.0150	-0.0187	0.0328	0.6	
37	Delta-E	2408.8037	-0.0079	0.0310	0.3	
	Delta-U	171.1969	-0.0533	0.0607	0.9	
	Length	15777.9142				
(V142 Day166(0) 15:29 00000880.SSF)						
37	Delta-N	15215.8138	-0.0164	0.0307	0.5	
38	Delta-E	555.7412	-0.0072	0.0296	0.2	
	Delta-U	9.1233	-0.0482	0.0490	1.0	
	Length	15225.9621				
(V144 Day166(0) 15:54 00000888.SSF)						
38	Delta-N	15750.2364	-0.0143	0.0282	0.5	
39	Delta-E	-106.8675	0.0026	0.0281	0.1	
	Delta-U	25.7011	-0.0056	0.0311	0.2	
	Length	15750.6200				
(V143 Day166(0) 15:54 00000884.SSF)						
38	Delta-N	-114.2839	0.0016	0.0292	0.1	
47	Delta-E	15140.0616	-0.0154	0.0289	0.5	
	Delta-U	57.0263	0.0337	0.0380	0.9	
	Length	15140.6004				
(V159 Day166(2) 22:16 00000984.SSF)						
40	Delta-N	-907.7865	-0.0224	0.0299	0.7	
31	Delta-E	-16353.1908	-0.0011	0.0290	0.0	
	Delta-U	-85.5787	-0.0035	0.0433	0.1	
	Length	16378.5912				
(V146 Day166(0) 16:24 00000904.SSF)						
40	Delta-N	-15798.9238	0.0142	0.0281	0.5	
39	Delta-E	-187.3813	-0.0027	0.0281	0.1	
	Delta-U	13.3202	0.0002	0.0300	0.0	
	Length	15800.0406				
(V147 Day166(1) 18:12 00000912.SSF)						
40	Delta-N	15906.4396	-0.0091	0.0292	0.3	
41	Delta-E	-641.0166	-0.0045	0.0289	0.2	
	Delta-U	-25.8949	-0.0122	0.0410	0.3	
	Length	15919.3716				
(V148 Day166(1) 18:12 00000916.SSF)						
41	Delta-N	15378.2177	-0.0090	0.0291	0.3	
42	Delta-E	-16.6698	-0.0045	0.0288	0.2	
	Delta-U	-6.2562	-0.0056	0.0401	0.1	
	Length	15378.2280				
(V156 Day166(1) 20:38 00000960.SSF)						
42	Delta-N	-32192.7925	0.0163	0.0284	0.6	
31	Delta-E	-15695.0071	0.0119	0.0286	0.4	
	Delta-U	-89.4477	0.0308	0.0350	0.9	
	Length	35815.0406				

(V155 Day166(1) 20:38 00000956 SSF)						
42	Delta-N	39.0085	-0.0001	0.0285	0.0	
33	Delta-E	-15815.5111	0.0089	0.0287	0.3	
	Delta-U	55.6167	0.0196	0.0357	0.5	
	Length	15815.6570				
(V150 Day166(1) 18:48 00000928 SSF)						
42	Delta-N	16106.2813	-0.0206	0.0287	0.7	
43	Delta-E	-446.6226	-0.0088	0.0284	0.3	
	Delta-U	67.9231	0.0098	0.0361	0.3	
	Length	16112.6156				
(V151 Day166(1) 19:12 00000932 SSF)						
43	Delta-N	15925.6256	-0.0221	0.0294	0.8	
44	Delta-E	1256.6927	-0.0085	0.0284	0.3	
	Delta-U	-95.5071	-0.0095	0.0377	0.3	
	Length	15975.4170				
(V153 Day166(1) 19:57 00000944 SSF)						
44	Delta-N	-356.9880	-0.0253	0.0320	0.8	
35	Delta-E	-16954.5416	-0.0045	0.0291	0.2	
	Delta-U	12.1100	0.0060	0.0382	0.2	
	Length	16958.3038				
(V152 Day166(1) 19:12 00000940 SSF)						
44	Delta-N	25.2489	0.0007	0.0298	0.0	
53	Delta-E	14863.6109	-0.0062	0.0286	0.2	
	Delta-U	74.0616	0.0547	0.0400	1.4	
	Length	14863.8168				
(V138 Day166(0) 14:05 00000856 SSF)						
45	Delta-N	-413.4236	0.0162	0.0293	0.6	
54	Delta-E	15660.0682	-0.0116	0.0285	0.4	
	Delta-U	164.8275	0.0186	0.0355	0.5	
	Length	15666.3915				
(V139 Day166(0) 14:46 00000864 SSF)						
45	Delta-N	-2844.4281	-0.0091	0.0284	0.3	
309	Delta-E	-14773.0673	0.0067	0.0282	0.2	
	Delta-U	294.2412	-0.0482	0.0324	1.5	
	Length	15047.2876				
(V137 Day166(0) 14:05 00000848 SSF)						
46	Delta-N	-10522.9800	-0.0015	0.0307	0.0	
45	Delta-E	303.1942	-0.0037	0.0289	0.1	
	Delta-U	-237.1619	0.0576	0.0408	1.4	
	Length	10530.0180				
(V169 Day167(4) 01:41 00001040 SSF)						
46	Delta-N	12940.2912	-0.0085	0.0294	0.3	
125	Delta-E	8165.9100	0.0048	0.0298	0.2	
	Delta-U	-34.3901	-0.0258	0.0401	0.6	
	Length	15301.4511				
(V136 Day166(0) 13:32 00000840 SSF)						
47	Delta-N	-20910.1049	-0.0036	0.0300	0.1	
46	Delta-E	-9.4674	-0.0035	0.0295	0.1	
	Delta-U	-83.2477	0.0525	0.0423	1.2	
	Length	20910.2728				
(V135 Day166(0) 13:32 00000836 SSF)						
47	Delta-N	-522.5856	0.0129	0.0297	0.4	
56	Delta-E	17269.1245	-0.0227	0.0293	0.8	
	Delta-U	-267.6767	0.0257	0.0406	0.6	
	Length	17279.1032				

(V134 Day166(0) 12:51 00000832.SSF)					
48	Delta-N	-15520.1276	0.0072	0.0285	0.3
47	Delta-E	-210.8960	-0.0074	0.0287	0.3
	Delta-U	-19.9817	-0.0030	0.0402	0.1
	Length	15521.5733			
(V145 Day166(0) 16:24 00000896.SSF)					
49	Delta-N	110.7275	-0.0144	0.0283	0.5
40	Delta-E	-15294.1808	-0.0087	0.0283	0.3
	Delta-U	-14.5496	0.0073	0.0313	0.2
	Length	15294.5886			
(V131 Day166(0) 12:21 00000812.SSF)					
49	Delta-N	-1953.3683	0.0010	0.0288	0.0
58	Delta-E	15514.3820	0.0048	0.0283	0.2
	Delta-U	-35.2649	-0.0492	0.0381	1.3
	Length	15636.9095			
(V132 Day166(0) 12:21 00000816.SSF)					
49	Delta-N	-14507.8967	0.0063	0.0289	0.2
308	Delta-E	-1391.2463	0.0062	0.0284	0.2
	Delta-U	86.0965	0.0004	0.0386	0.0
	Length	14574.7057			
(V130 Day166(0) 11:37 00000808.SSF)					
50	Delta-N	-15408.5444	-0.0037	0.0284	0.1
49	Delta-E	90.8991	0.0019	0.0283	0.1
	Delta-U	-45.4310	-0.0345	0.0345	1.0
	Length	15408.8795			
(V149 Day166(1) 18:48 00000920.SSF)					
51	Delta-N	-152.2507	0.0066	0.0286	0.2
42	Delta-E	-15822.7681	0.0172	0.0284	0.6
	Delta-U	-78.3525	0.0224	0.0358	0.6
	Length	15823.6946			
(V170 Day166(0) 11:37 00000804.SSF)					
51	Delta-N	-16139.5355	-0.0039	0.0289	0.1
50	Delta-E	16.7783	0.0014	0.0285	0.0
	Delta-U	-9.4791	-0.0439	0.0389	1.1
	Length	16139.5470			
(V125 Day165(2) 23:46 00000765.SSF)					
52	Delta-N	-5858.5266	0.0043	0.0305	0.1
307	Delta-E	5024.5951	0.0131	0.0291	0.4
	Delta-U	9.2256	0.0345	0.0424	0.8
	Length	7718.0940			
(V124 Day165(2) 23:46 00000761.SSF)					
53	Delta-N	-16041.8725	0.0008	0.0335	0.0
52	Delta-E	-144.4444	0.0180	0.0306	0.6
	Delta-U	23.2423	0.1025	0.0557	1.8
	Length	16042.5396			
(V111 Day165(1) 19:29 00000681.SSF)					
54	Delta-N	15857.9232	-0.0026	0.0292	0.1
55	Delta-E	1904.6987	0.0049	0.0282	0.2
	Delta-U	-2.4126	-0.0352	0.0335	1.0
	Length	15971.9006			
(V113 Day165(1) 20:05 00000693.SSF)					
56	Delta-N	-15464.9192	0.0110	0.0289	0.4
55	Delta-E	566.4483	-0.0065	0.0283	0.2
	Delta-U	121.9115	0.0282	0.0314	0.9
	Length	15475.7698			

(V114 Day165(1) 20:48 00000697 SSF)						
56	Delta-N	18217.5957	-0.0115	0.0280	0.4	
57	Delta-E	-1334.7162	-0.0111	0.0281	0.4	
	Delta-U	23.5814	0.0092	0.0305	0.3	
	Length	18266.4396				
(V115 Day165(1) 20:48 00000705 SSF)						
57	Delta-N	11915.6257	-0.0119	0.0282	0.4	
58	Delta-E	-142.2625	-0.0114	0.0282	0.4	
	Delta-U	154.9719	0.0170	0.0327	0.5	
	Length	11917.4826				
(V116 Day165(1) 21:24 00000709 SSF)						
58	Delta-N	17731.6459	-0.0227	0.0293	0.8	
59	Delta-E	141.8427	0.0117	0.0288	0.4	
	Delta-U	-137.4762	-0.0188	0.0449	0.4	
	Length	17732.7461				
(V117 Day165(1) 21:24 00000713 SSF)						
58	Delta-N	2769.3661	0.0102	0.0286	0.4	
67	Delta-E	14684.0549	-0.0144	0.0284	0.5	
	Delta-U	-174.1637	-0.0584	0.0385	1.5	
	Length	14943.9349				
(V118 Day165(1) 21:55 00000725 SSF)						
59	Delta-N	15846.6934	-0.0210	0.0297	0.7	
60	Delta-E	-741.5287	0.0110	0.0287	0.4	
	Delta-U	87.7654	0.0126	0.0474	0.3	
	Length	15864.2762				
(V126 Day166(0) 00:13 00000773 SSF)						
60	Delta-N	-66.8137	-0.0034	0.0286	0.1	
51	Delta-E	-14999.2544	0.0084	0.0283	0.3	
	Delta-U	103.2102	0.0067	0.0368	0.2	
	Length	14999.7583				
(V120 Day165(1) 22:23 00000733 SSF)						
60	Delta-N	15447.1904	0.0007	0.0289	0.0	
61	Delta-E	706.2432	-0.0119	0.0285	0.4	
	Delta-U	38.7154	-0.0303	0.0382	0.8	
	Length	15463.3751				
(V119 Day165(1) 21:55 00000729 SSF)						
60	Delta-N	325.0263	-0.0170	0.0292	0.6	
69	Delta-E	16598.2171	0.0143	0.0285	0.5	
	Delta-U	-105.2725	0.0037	0.0426	0.1	
	Length	16601.7329				
(V121 Day165(1) 22:23 00000741 SSF)						
61	Delta-N	15773.8392	-0.0005	0.0290	0.0	
62	Delta-E	-49.8036	-0.0122	0.0286	0.4	
	Delta-U	72.2294	0.0010	0.0409	0.0	
	Length	15774.0832				
(V123 Day165(2) 23:03 00000753 SSF)						
62	Delta-N	607.1619	-0.0020	0.0346	0.1	
53	Delta-E	-15760.3836	0.0170	0.0296	0.6	
	Delta-U	-28.2896	0.0492	0.0533	0.9	
	Length	15772.1000				
(V110 Day165(1) 19:29 00000677 SSF)						
63	Delta-N	313.0073	-0.0199	0.0289	0.7	
54	Delta-E	-15787.5498	0.0151	0.0281	0.5	
	Delta-U	9.9951	0.0400	0.0323	1.2	
	Length	15790.6556				

(V109 Day165(1) 19:03 00000669.SSF)					
63	Delta-N	394.5564	0.0265	0.0292	0.9
72	Delta-E	16018.9027	-0.0132	0.0286	0.5
	Delta-U	9.9199	0.0074	0.0381	0.2
	Length	16023.7641			
(V108 Day165(1) 19:03 00000665.SSF)					
64	Delta-N	-16239.2905	0.0067	0.0289	0.2
63	Delta-E	-60.5370	0.0027	0.0284	0.1
	Delta-U	-35.9340	-0.0263	0.0361	0.7
	Length	16239.4431			
(V112 Day165(1) 20:05 00000689.SSF)					
65	Delta-N	556.9720	-0.0125	0.0289	0.4
56	Delta-E	-14534.5256	0.0025	0.0283	0.1
	Delta-U	-180.5261	0.0030	0.0314	0.1
	Length	14546.3137			
(V106 Day165(1) 18:33 00000649.SSF)					
65	Delta-N	-14838.6847	0.0053	0.0289	0.2
64	Delta-E	-45.6650	0.0027	0.0286	0.1
	Delta-U	-43.1243	-0.0234	0.0389	0.6
	Length	14838.8176			
(V107 Day165(1) 18:34 00000653.SSF)					
65	Delta-N	1206.9454	-0.0072	0.0285	0.3
74	Delta-E	15522.6724	-0.0021	0.0283	0.1
	Delta-U	11.3584	0.0092	0.0348	0.3
	Length	15569.5281			
(V105 Day165(1) 18:05 00000645.SSF)					
66	Delta-N	-16229.4693	-0.0135	0.0284	0.5
65	Delta-E	41.6751	0.0028	0.0283	0.1
	Delta-U	22.1891	0.0236	0.0335	0.7
	Length	16229.5380			
(V104 Day165(1) 18:05 00000637.SSF)					
67	Delta-N	-17220.7396	-0.0136	0.0285	0.5
66	Delta-E	1264.9040	0.0029	0.0284	0.1
	Delta-U	118.7391	0.0204	0.0344	0.6
	Length	17267.5404			
(V103 Day165(0) 16:34 00000633.SSF)					
67	Delta-N	9651.6222	0.0227	0.0283	0.8
126	Delta-E	1221.0649	-0.0023	0.0283	0.1
	Delta-U	27.0118	-0.0011	0.0311	0.0
	Length	9728.5940			
(V101 Day165(0) 16:04 00000621.SSF)					
68	Delta-N	-6678.9595	0.0000	0.0285	0.0
126	Delta-E	-100.8862	0.0000	0.0284	0.0
	Delta-U	6.5244	-0.0018	0.0332	0.1
	Length	6679.7246			
(V100 Day165(0) 16:04 00000617.SSF)					
69	Delta-N	-21480.9676	-0.0034	0.0293	0.1
126	Delta-E	-114.7376	0.0067	0.0290	0.2
	Delta-U	-15.7519	-0.0091	0.0381	0.2
	Length	21481.2798			
(V97 Day165(0) 15:03 00000597.SSF)					
69	Delta-N	181.1292	-0.0081	0.0284	0.3
128	Delta-E	10380.3257	-0.0028	0.0282	0.1
	Delta-U	75.6680	0.0128	0.0336	0.4
	Length	10382.1816			

(V96 Day165(0) 15:03 00000593.SSF)						
70	Delta-N	-15796.1502	0.0059	0.0287	0.2	
69	Delta-E	112.5009	-0.0123	0.0284	0.4	
	Delta-U	-111.2947	-0.0506	0.0354	1.4	
	Length	15796.9429				
(V122 Day165(2) 23:03 00000745.SSF)						
71	Delta-N	-595.1809	0.0019	0.0299	0.1	
62	Delta-E	-16709.8598	0.0277	0.0284	1.0	
	Delta-U	84.3500	0.0424	0.0370	1.1	
	Length	16720.6689				
(V95 Day165(0) 14:23 00000585.SSF)						
71	Delta-N	-15707.0866	0.0056	0.0286	0.2	
70	Delta-E	-903.0619	-0.0108	0.0281	0.4	
	Delta-U	-30.9110	-0.0198	0.0314	0.6	
	Length	15733.0559				
(V80 Day164(1) 23:34 00000489.SSF)						
72	Delta-N	15655.8486	0.0057	0.0292	0.2	
73	Delta-E	1071.1339	-0.0011	0.0283	0.0	
	Delta-U	11.1860	0.0020	0.0359	0.1	
	Length	15692.4520				
(V81 Day165(0) 00:03 00000497.SSF)						
73	Delta-N	16234.9780	0.0055	0.0282	0.2	
74	Delta-E	-1438.1700	-0.0009	0.0280	0.0	
	Delta-U	45.1262	-0.0166	0.0321	0.5	
	Length	16298.6159				
(V99 Day165(0) 11:31 00000505.SSF)						
74	Delta-N	14979.7930	-0.0106	0.0282	0.4	
75	Delta-E	205.3151	-0.0036	0.0280	0.1	
	Delta-U	44.4250	0.0244	0.0308	0.8	
	Length	14981.2659				
(V44 Day165(1) 00:03 00000501.SSF)						
74	Delta-N	49.6431	0.0084	0.0280	0.3	
83	Delta-E	15707.2072	0.0006	0.0280	0.0	
	Delta-U	-56.9256	-0.0001	0.0305	0.0	
	Length	15707.3888				
(V84 Day165(0) 11:31 00000513.SSF)						
75	Delta-N	911.5733	-0.0105	0.0281	0.4	
306	Delta-E	1288.8415	-0.0037	0.0280	0.1	
	Delta-U	24.8674	0.0220	0.0296	0.7	
	Length	1578.8277				
(V102 Day165(0) 16:34 00000629.SSF)						
76	Delta-N	864.3258	-0.0038	0.0284	0.1	
67	Delta-E	-16888.0514	0.0172	0.0284	0.6	
	Delta-U	-48.5593	0.0172	0.0321	0.5	
	Length	16910.2246				
(V86 Day165(0) 11:57 00000525.SSF)						
76	Delta-N	-271.4538	-0.0050	0.0293	0.2	
85	Delta-E	15687.9515	-0.0250	0.0292	0.9	
	Delta-U	141.0794	-0.0561	0.0517	1.1	
	Length	15690.9341				
(V87 Day165(0) 12:21 00000529.SSF)						
76	Delta-N	10631.8132	-0.0051	0.0286	0.2	
129	Delta-E	4726.9211	-0.0010	0.0282	0.0	
	Delta-U	137.7591	-0.0021	0.0363	0.1	
	Length	11636.0738				

(V3 Day163(0) 01:50 00000001 SSF)					
77	Delta-N	-5337.6298	-0.0246	0.0299	0.8
127	Delta-E	-4915.5706	-0.0120	0.0306	0.4
	Delta-U	-8.7962	0.0535	0.0438	1.2
	Length	7256.2527			
(V1 Day163(0) 02:37 00000017 SSF)					
77	Delta-N	5679.9925	0.0259	0.0308	0.8
208	Delta-E	-2379.0295	0.0034	0.0287	0.1
	Delta-U	-99.9370	-0.0274	0.0384	0.7
	Length	6158.9028			
(V89 Day165(0) 12:42 00000541 SSF)					
77	Delta-N	2789.9938	-0.0090	0.0325	0.3
305	Delta-E	-1246.8979	0.0012	0.0333	0.0
	Delta-U	-34.2467	-0.0117	0.0928	0.1
	Length	3056.1402			
(V83 Day165(0) 15:36 00000609 SSF)					
78	Delta-N	414.5761	0.0081	0.0283	0.3
128	Delta-E	-6567.8083	0.0032	0.0281	0.1
	Delta-U	78.1728	0.0063	0.0317	0.2
	Length	6581.3441			
(V93 Day165(0) 13:50 00000573 SSF)					
79	Delta-N	16297.2170	-0.0004	0.0288	0.0
80	Delta-E	-150.3023	0.0032	0.0286	0.1
	Delta-U	23.2294	-0.0136	0.0339	0.4
	Length	16297.9266			
(V94 Day165(0) 14:23 00000581 SSF)					
80	Delta-N	335.9132	0.0111	0.0287	0.4
71	Delta-E	-14774.1114	0.0170	0.0281	0.6
	Delta-U	9.7255	0.0140	0.0318	0.4
	Length	14777.9329			
(V79 Day164(2) 23:34 00000481 SSF)					
81	Delta-N	36.2547	-0.0186	0.0292	0.6
72	Delta-E	-14598.2242	0.0122	0.0283	0.4
	Delta-U	12.1932	-0.0289	0.0355	0.8
	Length	14598.2743			
(V78 Day164(0) 22:51 00000477 SSF)					
82	Delta-N	-15863.0845	-0.0214	0.0302	0.7
81	Delta-E	-1085.7889	0.0043	0.0286	0.2
	Delta-U	18.9684	-0.0054	0.0392	0.1
	Length	15900.2122			
(V77 Day164(0) 22:51 00000473 SSF)					
83	Delta-N	-16103.3392	-0.0227	0.0299	0.8
82	Delta-E	322.8767	0.0042	0.0285	0.1
	Delta-U	-66.0386	0.0081	0.0376	0.2
	Length	16106.7111			
(V76 Day164(0) 22:21 00000465 SSF)					
83	Delta-N	15768.2780	0.0062	0.0284	0.2
84	Delta-E	296.8364	0.0068	0.0281	0.2
	Delta-U	98.8431	0.0002	0.0325	0.0
	Length	15771.3814			
(V74 Day164(0) 21:56 00000453 SSF)					
85	Delta-N	-15301.3018	-0.0044	0.0288	0.2
84	Delta-E	212.6421	-0.0073	0.0283	0.3
	Delta-U	30.9765	0.0310	0.0400	0.8
	Length	15302.8106			

(V72 Day164(0) 21:28 00000441.SSF)						
86	Delta-N	-16229.5261	-0.0103	0.0287	0.4	
85	Delta-E	-229.0661	0.0137	0.0284	0.5	
	Delta-U	11.8691	-0.0347	0.0385	0.9	
	Length	16231.1469				
(V69 Day164(0) 20:51 00000421.SSF)						
87	Delta-N	756.0708	0.0129	0.0286	0.5	
96	Delta-E	15964.0235	-0.0120	0.0288	0.4	
	Delta-U	23.8975	-0.0120	0.0378	0.3	
	Length	15981.9355				
(V70 Day164(0) 20:52 00000425.SSF)						
87	Delta-N	-10415.8011	-0.0136	0.0290	0.5	
304	Delta-E	-1293.3356	0.0101	0.0294	0.3	
	Delta-U	128.5854	0.1109	0.0426	2.6	
	Length	10496.5787				
(V68 Day164(0) 20:01 00000417.SSF)						
88	Delta-N	-16981.0386	-0.0034	0.0299	0.1	
87	Delta-E	17.5766	0.0034	0.0283	0.1	
	Delta-U	-37.4441	0.0046	0.0329	0.1	
	Length	16981.0890				
(V66 Day164(0) 19:23 00000405.SSF)						
89	Delta-N	-555.2710	0.0122	0.0293	0.4	
80	Delta-E	-16238.6481	0.0140	0.0283	0.5	
	Delta-U	-30.0947	-0.0047	0.0369	0.1	
	Length	16248.1668				
(V67 Day164(0) 20:01 00000409.SSF)						
89	Delta-N	-14991.3854	-0.0044	0.0297	0.1	
88	Delta-E	-204.3457	0.0033	0.0283	0.1	
	Delta-U	-59.9045	0.0317	0.0324	1.0	
	Length	14992.8977				
(V51 Day164(0) 15:17 00000313.SSF)						
90	Delta-N	-5189.1353	-0.0007	0.0295	0.0	
81	Delta-E	-17187.9192	0.0082	0.0290	0.3	
	Delta-U	-66.9990	-0.0229	0.0431	0.5	
	Length	17954.2803				
(V52 Day164(0) 15:17 00000317.SSF)						
90	Delta-N	10465.4985	0.0063	0.0292	0.2	
91	Delta-E	20.0316	0.0075	0.0288	0.3	
	Delta-U	22.2139	0.0419	0.0402	1.0	
	Length	10465.5413				
(V53 Day164(0) 15:50 00000329.SSF)						
91	Delta-N	16572.2980	0.0045	0.0285	0.2	
92	Delta-E	-19.2662	0.0066	0.0284	0.2	
	Delta-U	-4.4128	0.0053	0.0338	0.2	
	Length	16572.3098				
(V75 Day164(1) 22:21 00000461.SSF)						
92	Delta-N	-260.9108	-0.0223	0.0283	0.8	
83	Delta-E	-16402.9864	0.0099	0.0281	0.4	
	Delta-U	-57.9205	-0.0034	0.0322	0.1	
	Length	16405.1636				
(V55 Day164(0) 16:31 00000337.SSF)						
92	Delta-N	15096.4014	0.0185	0.0281	0.7	
93	Delta-E	-396.7238	0.0046	0.0281	0.2	
	Delta-U	8.4541	0.0253	0.0297	0.9	
	Length	15101.6157				

(V54 Day164(0) 15:50 00000333 SSF)						
92	Delta-N	-431.8183	0.0085	0.0286	0.3	
101	Delta-E	15811.1229	-0.0075	0.0285	0.3	
	Delta-U	-2.8145	0.0419	0.0351	1.2	
	Length	15817.0188				
(V56 Day164(0) 16:31 00000345 SSF)						
93	Delta-N	16069.0620	0.0194	0.0288	0.7	
94	Delta-E	-1336.7749	0.0044	0.0286	0.2	
	Delta-U	74.7156	0.0248	0.0337	0.7	
	Length	16124.7420				
(V73 Day164(1) 21:56 00000449 SSF)						
94	Delta-N	-357.9877	0.0027	0.0284	0.1	
85	Delta-E	-14563.2464	0.0008	0.0281	0.0	
	Delta-U	-83.2028	-0.0300	0.0355	0.8	
	Length	14567.8833				
(V57 Day164(0) 17:15 00000349 SSF)						
94	Delta-N	15503.3107	-0.0049	0.0284	0.2	
95	Delta-E	1485.5340	0.0053	0.0292	0.2	
	Delta-U	-39.7414	0.0137	0.0329	0.4	
	Length	15574.3711				
(V58 Day164(0) 17:15 00000353 SSF)						
94	Delta-N	-172.0088	0.0199	0.0289	0.7	
103	Delta-E	17244.1777	-0.0015	0.0303	0.0	
	Delta-U	-68.4084	0.0242	0.0366	0.7	
	Length	17245.1713				
(V59 Day164(0) 17:43 00000365 SSF)						
95	Delta-N	16913.1134	-0.0048	0.0283	0.2	
96	Delta-E	401.5156	0.0051	0.0282	0.2	
	Delta-U	-121.6725	-0.0027	0.0310	0.1	
	Length	16918.3162				
(V61 Day164(0) 18:21 00000377 SSF)						
96	Delta-N	14498.9242	-0.0101	0.0284	0.4	
97	Delta-E	-39.3081	-0.0090	0.0283	0.3	
	Delta-U	42.6464	0.0185	0.0335	0.6	
	Length	14499.0402				
(V60 Day164(0) 17:43 00000369 SSF)						
96	Delta-N	-451.3573	0.0181	0.0283	0.6	
105	Delta-E	15924.5273	0.0024	0.0283	0.1	
	Delta-U	-3.2826	0.0199	0.0317	0.6	
	Length	15930.9229				
(V62 Day164(0) 18:21 00000381 SSF)						
97	Delta-N	16811.4490	-0.0101	0.0284	0.4	
98	Delta-E	-59.7988	-0.0090	0.0283	0.3	
	Delta-U	36.8048	0.0252	0.0335	0.8	
	Length	16811.5957				
(V65 Day164(0) 19:23 00000401 SSF)						
98	Delta-N	-82.8183	0.0103	0.0300	0.3	
89	Delta-E	-15656.2711	0.0169	0.0285	0.6	
	Delta-U	-42.0265	0.0103	0.0409	0.3	
	Length	15656.5465				
(V63 Day164(0) 18:48 00000389 SSF)						
98	Delta-N	9.6950	-0.0192	0.0294	0.7	
303	Delta-E	3206.3190	-0.0274	0.0289	1.0	
	Delta-U	23.1430	0.0232	0.0429	0.5	
	Length	3206.4172				

(V49 Day164(0) 14:36 00000301.SSF)					
99	Delta-N	4347.3912	0.0053	0.0293	0.2
90	Delta-E	-15708.7564	0.0150	0.0284	0.5
	Delta-U	-19.6615	-0.0109	0.0358	0.3
	Length	16299.2400			
(V50 Day164(0) 14:36 00000305.SSF)					
99	Delta-N	-1065.3745	-0.0147	0.0294	0.5
108	Delta-E	16085.1409	-0.0202	0.0285	0.7
	Delta-U	57.5831	-0.0198	0.0363	0.5
	Length	16120.4869			
(V48 Day164(0) 14:02 00000289.SSF)					
100	Delta-N	-15078.1993	-0.0098	0.0288	0.3
99	Delta-E	-135.3163	-0.0044	0.0286	0.2
	Delta-U	122.0716	-0.0220	0.0332	0.7
	Length	15079.3006			
(V46 Day164(0) 13:32 00000277.SSF)					
101	Delta-N	-15864.1579	-0.0084	0.0287	0.3
100	Delta-E	13.7172	-0.0042	0.0288	0.1
	Delta-U	-150.3723	-0.0518	0.0359	1.4
	Length	15864.8765			
(V47 Day164(0) 13:32 00000281.SSF)					
101	Delta-N	-32.2334	0.0047	0.0288	0.2
110	Delta-E	15947.1640	-0.0189	0.0289	0.7
	Delta-U	-7.1568	0.0699	0.0367	1.9
	Length	15947.1982			
(V45 Day164(0) 12:59 00000269.SSF)					
102	Delta-N	-15889.4026	-0.0108	0.0282	0.4
101	Delta-E	188.5185	-0.0138	0.0283	0.5
	Delta-U	-22.2139	-0.0018	0.0351	0.1
	Length	15890.5364			
(V82 Day164(0) 12:59 00000265.SSF)					
102	Delta-N	15534.7108	0.0112	0.0283	0.4
103	Delta-E	-90.0836	0.0144	0.0284	0.5
	Delta-U	8.4410	-0.0392	0.0367	1.1
	Length	15534.9743			
(V43 Day164(0) 00:27 00000261.SSF)					
103	Delta-N	16107.8457	0.0202	0.0282	0.7
104	Delta-E	304.9546	-0.0004	0.0281	0.0
	Delta-U	29.5358	-0.0245	0.0328	0.7
	Length	16110.7593			
(V39 Day163(0) 23:27 00000237.SSF)					
105	Delta-N	935.4649	0.0308	0.0300	1.0
114	Delta-E	15761.5157	0.0057	0.0285	0.2
	Delta-U	113.2386	0.0763	0.0394	1.9
	Length	15789.6579			
(V40 Day163(0) 23:52 00000241.SSF)					
105	Delta-N	-2113.1480	-0.0247	0.0302	0.8
207	Delta-E	1399.2842	0.0009	0.0289	0.0
	Delta-U	12.4473	0.0236	0.0417	0.6
	Length	2534.4715			
(V38 Day163(0) 23:27 00000233.SSF)					
106	Delta-N	-15759.0915	-0.0039	0.0288	0.1
105	Delta-E	-59.3145	0.0041	0.0281	0.1
	Delta-U	-103.3226	0.0246	0.0332	0.7
	Length	15759.5418			

(V37 Day163(0) 22:55 00000225.SSF)					
107	Delta-N	-14951.7415	-0.0044	0.0289	0.2
106	Delta-E	218.6413	0.0041	0.0282	0.1
	Delta-U	11.7624	0.0306	0.0331	0.9
	Length	14953.3447			
(V22 Day163(0) 18:35 00000133.SSF)					
108	Delta-N	15794.6376	0.0149	0.0287	0.5
109	Delta-E	179.5833	0.0287	0.0285	1.0
	Delta-U	-69.4766	-0.0154	0.0371	0.4
	Length	15795.8113			
(V21 Day163(0) 17:56 00000129.SSF)					
108	Delta-N	-15268.3288	-0.0140	0.0287	0.5
205	Delta-E	21713.3899	-0.0102	0.0285	0.4
	Delta-U	-235.6286	0.0408	0.0351	1.2
	Length	26545.2196			
(V23 Day163(0) 18:35 00000141.SSF)					
109	Delta-N	16181.0482	0.0158	0.0287	0.6
110	Delta-E	-173.4174	0.0282	0.0285	1.0
	Delta-U	9.1915	0.0144	0.0370	0.4
	Length	16181.9801			
(V24 Day163(0) 19:02 00000145.SSF)					
110	Delta-N	15360.3213	0.0297	0.0282	1.1
111	Delta-E	-83.6766	0.0170	0.0281	0.6
	Delta-U	30.8505	0.0660	0.0315	2.1
	Length	15360.5802			
(V25 Day163(0) 19:02 00000149.SSF)					
110	Delta-N	100.7976	-0.0049	0.0288	0.2
119	Delta-E	15800.7571	-0.0063	0.0284	0.2
	Delta-U	-64.1759	0.0390	0.0366	1.1
	Length	15801.2089			
(V42 Day164(0) 00:27 00000253.SSF)					
112	Delta-N	-575.5105	-0.0100	0.0284	0.4
103	Delta-E	-15952.3843	-0.0130	0.0282	0.5
	Delta-U	-13.3756	-0.0242	0.0348	0.7
	Length	15962.7678			
(V27 Day163(0) 19:28 00000165.SSF)					
112	Delta-N	-16682.7642	-0.0285	0.0287	1.0
111	Delta-E	167.5790	-0.0171	0.0281	0.6
	Delta-U	-8.9386	0.0232	0.0330	0.7
	Length	16683.6082			
(V28 Day163(0) 20:21 00000169.SSF)					
112	Delta-N	16060.0599	0.0171	0.0284	0.6
113	Delta-E	246.2112	0.0275	0.0281	1.0
	Delta-U	56.5436	-0.0357	0.0302	1.2
	Length	16062.0466			
(V29 Day163(0) 20:21 00000177.SSF)					
113	Delta-N	4598.1344	0.0386	0.0355	1.1
302	Delta-E	-896.5159	0.0566	0.0367	1.5
	Delta-U	6.9725	-0.0857	0.0601	1.4
	Length	4684.7230			
(V32 Day163(0) 21:41 00000197.SSF)					
114	Delta-N	14755.3730	0.0060	0.0293	0.2
115	Delta-E	147.6651	0.0103	0.0286	0.4
	Delta-U	-91.9445	0.0278	0.0459	0.6
	Length	14756.3983			

(V33 Day163(0) 21:41 00000201 SSF)						
115	Delta-N	15902.7301	0.0034	0.0285	0.1	
116	Delta-E	-248.2161	0.0110	0.0282	0.4	
	Delta-U	83.6921	-0.0052	0.0370	0.1	
	Length	15904.8873				
(V34 Day163(0) 22:09 00000205 SSF)						
116	Delta-N	-507.3134	0.0015	0.0285	0.1	
200	Delta-E	15746.9576	0.0404	0.0282	1.4	
	Delta-U	4.8282	0.0177	0.0356	0.5	
	Length	15755.1282				
(V35 Day163(0) 22:09 00000209 SSF)						
116	Delta-N	25.6642	0.0022	0.0287	0.1	
301	Delta-E	-2070.5793	-0.0299	0.0283	1.1	
	Delta-U	27.2035	-0.0181	0.0370	0.5	
	Length	2070.9170				
(V20 Day163(0) 17:56 00000125 SSF)						
117	Delta-N	150.9009	0.0151	0.0288	0.5	
108	Delta-E	-15740.6385	0.0381	0.0286	1.3	
	Delta-U	92.0834	-0.0411	0.0356	1.2	
	Length	15741.6312				
(V18 Day163(0) 17:26 00000113 SSF)						
117	Delta-N	-6203.5404	0.0146	0.0284	0.5	
204	Delta-E	-2075.8484	0.0109	0.0289	0.4	
	Delta-U	-47.1488	-0.0202	0.0323	0.6	
	Length	6541.8104				
(V17 Day163(0) 16:42 00000105 SSF)						
118	Delta-N	-15984.1016	-0.0677	0.0283	2.4	
117	Delta-E	-195.9033	-0.0459	0.0284	1.6	
	Delta-U	-95.2639	-0.0620	0.0314	2.0	
	Length	15985.5859				
(V16 Day163(0) 16:42 00000097 SSF)						
119	Delta-N	-16232.3703	-0.0032	0.0282	0.1	
118	Delta-E	107.3304	0.0788	0.0283	2.8	
	Delta-U	91.1031	-0.0494	0.0308	1.6	
	Length	16232.9807				
(V15 Day163(0) 16:12 00000093 SSF)						
120	Delta-N	-15414.8741	-0.0757	0.0288	2.6	
119	Delta-E	107.5782	-0.1357	0.0286	4.7 *	
	Delta-U	-64.3407	-0.0789	0.0351	2.2	
	Length	15415.3837				
(V26 Day163(0) 19:28 00000161 SSF)						
121	Delta-N	1172.8201	-0.0241	0.0295	0.8	
112	Delta-E	-15815.8030	-0.0024	0.0284	0.1	
	Delta-U	-21.3897	-0.0052	0.0376	0.1	
	Length	15859.2430				
(V13 Day163(0) 15:38 00000081 SSF)						
121	Delta-N	-9484.1472	-0.0111	0.0286	0.4	
203	Delta-E	4.0217	-0.0189	0.0283	0.7	
	Delta-U	-6.6967	0.0184	0.0348	0.5	
	Length	9484.1504				
(V12 Day163(0) 15:38 00000077 SSF)						
122	Delta-N	-16527.0599	-0.0517	0.0287	1.8	
121	Delta-E	-291.7876	-0.0061	0.0284	0.2	
	Delta-U	5.0759	0.0701	0.0351	2.0	
	Length	16529.6363				

(V11 Day163(0) 14:32 00000069.SSF)						
122	Delta-N	16064.5270	0.0495	0.0293	1.7	
123	Delta-E	275.2841	-0.0125	0.0284	0.4	
	Delta-U	13.7597	-0.0295	0.0346	0.9	
	Length	16066.8914				
(V31 Day163(0) 21:04 00000189.SSF)						
123	Delta-N	1068.2490	-0.0481	0.0282	1.7	
114	Delta-E	-15936.5842	-0.0225	0.0283	0.8	
	Delta-U	-2.5773	-0.0232	0.0348	0.7	
	Length	15972.3473				
(V7 Day163(0) 13:26 00000041.SSF)						
124	Delta-N	-15745.1545	0.0264	0.0285	0.9	
123	Delta-E	105.2568	-0.0405	0.0287	1.4	
	Delta-U	0.1210	0.0581	0.0356	1.6	
	Length	15745.5063				
(V6 Day163(0) 13:26 00000037.SSF)						
124	Delta-N	10887.7079	0.0088	0.0288	0.3	
300	Delta-E	24349.1368	-0.0280	0.0288	1.0	
	Delta-U	34.5849	-0.0600	0.0371	1.6	
	Length	26672.5297				
(V129 Day167(0) 01:41 00001048.SSF)						
125	Delta-N	-8020.7704	-0.0094	0.0288	0.3	
55	Delta-E	9688.1036	0.0020	0.0291	0.1	
	Delta-U	-35.1206	-0.0013	0.0357	0.0	
	Length	12577.4935				
(V2 Day163(0) 01:50 00000009.SSF)						
127	Delta-N	-82.5282	-0.0211	0.0289	0.7	
126	Delta-E	-10750.7327	-0.0073	0.0294	0.2	
	Delta-U	-105.1998	0.0254	0.0371	0.7	
	Length	10751.5642				
(V88 Day165(0) 12:21 00000537.SSF)						
129	Delta-N	5302.1219	-0.0074	0.0291	0.3	
77	Delta-E	-4719.3340	-0.0021	0.0286	0.1	
	Delta-U	-44.6827	-0.0286	0.0430	0.7	
	Length	7098.3524				
(V98 Day165(0) 15:36 00000605.SSF)						
130	Delta-N	-1.8369	0.0085	0.0285	0.3	
78	Delta-E	-3735.9321	0.0034	0.0282	0.1	
	Delta-U	-119.9663	0.0118	0.0335	0.4	
	Length	3737.8582				
(V92 Day165(0) 13:50 00000569.SSF)						
130	Delta-N	15108.3107	-0.0007	0.0285	0.0	
79	Delta-E	-4944.5196	0.0031	0.0284	0.1	
	Delta-U	-38.9340	0.0027	0.0320	0.1	
	Length	15896.8815				
(V91 Day165(0) 13:15 00000561.SSF)						
130	Delta-N	-3.7073	0.0064	0.0288	0.2	
87	Delta-E	10975.9523	-0.0037	0.0288	0.1	
	Delta-U	-67.4369	0.0199	0.0380	0.5	
	Length	10976.1600				
(V5 Day163(0) 12:58 00000033.SSF)						
200	Delta-N	-15462.8171	-0.0037	0.0289	0.1	
124	Delta-E	164.0336	0.0213	0.0291	0.7	
	Delta-U	-29.0573	0.0526	0.0466	1.1	
	Length	15463.7144				

(V10 Day163(0) 14:32 00000061.SSF)						
201	Delta-N	-697.6598	0.0217	0.0316	0.7	
123	Delta-E	-14323.5435	-0.0116	0.0286	0.4	
	Delta-U	-50.1186	0.0628	0.0505	1.2	
	Length	14340.6115				
(V9 Day163(0) 13:59 00000057.SSF)						
202	Delta-N	573.5010	0.0047	0.0328	0.1	
201	Delta-E	-6768.8372	-0.0125	0.0322	0.4	
	Delta-U	56.1610	0.2352	0.0527	4.5 *	
	Length	6793.3213				
(V14 Day163(0) 16:12 00000089.SSF)						
203	Delta-N	-5881.3727	-0.0116	0.0286	0.4	
120	Delta-E	102.5216	-0.0194	0.0285	0.7	
	Delta-U	-50.0174	-0.0393	0.0338	1.2	
	Length	5882.4789				
(V19 Day163(0) 17:26 00000117.SSF)						
204	Delta-N	-8928.1528	0.0144	0.0284	0.5	
205	Delta-E	8039.0395	0.0093	0.0292	0.3	
	Delta-U	-78.1304	0.0812	0.0332	2.4	
	Length	12014.3320				
(V41 Day163(1) 23:58 00000249.SSF)						
207	Delta-N	-13916.9664	-0.0344	0.0339	1.0	
104	Delta-E	-1686.4576	0.0045	0.0311	0.1	
	Delta-U	103.1125	0.1094	0.0603	1.8	
	Length	14019.1556				
(V90 Day165(0) 13:15 00000557.SSF)						
208	Delta-N	10146.4738	0.0156	0.0288	0.5	
130	Delta-E	7525.3413	0.0038	0.0288	0.1	
	Delta-U	108.6041	-0.0157	0.0376	0.4	
	Length	12633.0316				
(V128 Day165(0) 12:42 00001884.SSF)						
208	Delta-N	-2889.8974	0.0091	0.0327	0.3	
305	Delta-E	1132.4426	-0.0012	0.0335	0.0	
	Delta-U	64.7758	0.0122	0.0942	0.1	
	Length	3104.5337				
(V213 Day168(4) 02:30 00001308.SSF)						
212	Delta-N	1561.1823	0.0231	0.0284	0.8	
13	Delta-E	7149.5504	-0.0216	0.0280	0.8	
	Delta-U	131.0739	0.0175	0.0313	0.6	
	Length	7319.1899				
(V4 Day163(0) 12:58 00000029.SSF)						
300	Delta-N	4601.5921	-0.0053	0.0283	0.2	
200	Delta-E	-24508.0722	-0.0203	0.0283	0.7	
	Delta-U	-43.0699	0.0630	0.0362	1.7	
	Length	24936.3611				
(V8 Day163(0) 13:59 00000053.SSF)						
300	Delta-N	-26489.7521	0.0118	0.0289	0.4	
202	Delta-E	-3179.9517	-0.0098	0.0287	0.3	
	Delta-U	-74.6004	-0.0062	0.0344	0.2	
	Length	26680.0417				
(V36 Day163(0) 22:55 00000221.SSF)						
301	Delta-N	-898.5809	0.0253	0.0298	0.9	
107	Delta-E	-13728.6632	-0.0350	0.0284	1.2	
	Delta-U	-73.7636	-0.1586	0.0381	4.2 *	
	Length	13758.2369				

(V30 Day163(0) 21:04 00000185 SSF)					
302	Delta-N	11828.8125	0.0170	0.0283	0.6
114	Delta-E	1073.2091	0.0283	0.0284	1.0
	Delta-U	-46.3750	-0.0490	0.0364	1.3
	Length	11877.4885			
(V64 Day164(0) 18:48 00000393 SSF)					
303	Delta-N	-1062.4007	-0.0046	0.0281	0.2
107	Delta-E	12636.3023	0.0333	0.0280	1.2
	Delta-U	-35.4428	-0.0137	0.0313	0.4
	Length	12680.9340			
(V71 Day164(1) 21:28 00000433 SSF)					
304	Delta-N	-5383.2412	-0.0099	0.0288	0.3
86	Delta-E	1058.1568	0.0134	0.0284	0.5
	Delta-U	-49.5153	-0.0241	0.0402	0.6
	Length	5486.4773			
(V85 Day165(0) 11:57 00000521 SSF)					
306	Delta-N	15499.2563	-0.0104	0.0282	0.4
76	Delta-E	-1411.1366	-0.0037	0.0282	0.1
	Delta-U	-210.3019	0.0026	0.0360	0.1
	Length	15564.7833			
(V127 Day166(0) 00:13 00000777 SSF)					
307	Delta-N	-9993.0643	0.0054	0.0288	0.2
51	Delta-E	-4755.7105	0.0109	0.0284	0.4
	Delta-U	-34.6783	0.0198	0.0385	0.5
	Length	11067.0375			
(V133 Day166(0) 12:51 00000828 SSF)					
308	Delta-N	-1534.8844	0.0059	0.0280	0.2
48	Delta-E	1346.2054	0.0060	0.0280	0.2
	Delta-U	-35.8861	0.0114	0.0313	0.4
	Length	2041.9175			
(V140 Day166(0) 14:46 00000868 SSF)					
309	Delta-N	3594.2965	-0.0117	0.0296	0.4
36	Delta-E	-3650.3461	0.0081	0.0288	0.3
	Delta-U	-247.3063	0.0063	0.0395	0.2
	Length	5128.8551			
(V208 Day168(2) 01:05 00001280 SSF)					
310	Delta-N	-14428.6962	-0.0041	0.0286	0.1
8	Delta-E	42486.6544	-0.0121	0.0283	0.4
	Delta-U	-176.5219	-0.0783	0.0360	2.2
	Length	44870.1931			
(V171 Day168(0) 14:47 00001880 SSF)					
A4002	Delta-N	5287.7598	0.0001	0.0286	0.0
1	Delta-E	-10646.3679	-0.0003	0.0284	0.0
	Delta-U	1.9940	-0.0043	0.0351	0.1
	Length	11887.2014			
(V197 Day167(2) 21:19 00001208 SSF)					
A4002	Delta-N	5936.8223	-0.0029	0.0305	0.1
11	Delta-E	10581.8194	-0.0042	0.0294	0.1
	Delta-U	87.7065	-0.0034	0.0561	0.1
	Length	12133.7733			
(V203 Day167(2) 23:09 00001252 SSF)					
A4061	Delta-N	-4376.8280	0.0029	0.0324	0.1
212	Delta-E	5427.1785	0.0014	0.0292	0.0
	Delta-U	6.2964	-0.0189	0.0493	0.4
	Length	6972.1539			

(V181 Day167(1) 15:15 00001116 SSF)

A4581	Delta-N	5138.5506	0.0105	0.0292	0.4
25	Delta-E	-105.6518	0.0036	0.0287	0.1
	Delta-U	8.7580	-0.0163	0.0397	0.4
	Length	5139.6441			

GPS Residual Summary (US Feet)

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 (Sorted by 3D Residual Lengths)

From	To	N	E	Up	2D	3D	Length	VectID
202	201	0.005	-0.012	0.235	0.013	0.236	6793	9
120	119	-0.076	-0.136	-0.079	0.155	0.174	15415	15
301	107	0.025	-0.035	-0.159	0.043	0.164	13758	36
207	104	-0.034	0.004	0.109	0.035	0.115	14019	41
87	304	-0.014	0.010	0.111	0.017	0.112	10497	70
113	302	0.039	0.057	-0.086	0.069	0.110	4685	29
2	3	-0.020	-0.017	0.106	0.027	0.109	20511	201
53	52	0.001	0.018	0.103	0.018	0.104	16043	124
118	117	-0.068	-0.046	-0.062	0.082	0.103	15986	17
11	10	-0.007	-0.021	-0.091	0.022	0.094	16206	190
119	118	-0.003	0.079	-0.049	0.079	0.093	16233	16
122	121	-0.052	-0.006	0.070	0.052	0.087	16530	12
204	205	0.014	0.009	0.081	0.017	0.083	12014	19
105	114	0.031	0.006	0.076	0.031	0.082	15790	39
310	8	-0.004	-0.012	-0.078	0.013	0.079	44870	208
124	123	0.026	-0.041	0.058	0.048	0.076	15746	7
110	111	0.030	0.017	0.066	0.034	0.074	15361	24
30	29	0.024	-0.002	-0.068	0.024	0.073	10056	161
101	110	0.005	-0.019	0.070	0.019	0.073	15947	47
5	2	-0.005	0.009	0.067	0.010	0.068	10019	216
201	123	0.022	-0.012	0.063	0.025	0.067	14341	10
7	310	-0.011	-0.011	-0.065	0.016	0.067	52520	207
124	300	0.009	-0.028	-0.060	0.029	0.067	26673	6
300	200	-0.005	-0.020	0.063	0.021	0.066	24936	4
16	15	-0.021	0.005	0.062	0.021	0.066	14781	184
28	27	-0.008	-0.001	0.064	0.008	0.064	14967	164
3	7	-0.011	-0.019	0.059	0.022	0.063	15004	204
76	85	-0.005	-0.025	-0.056	0.026	0.062	15691	86
58	67	0.010	-0.014	-0.058	0.018	0.061	14944	117
77	127	-0.025	-0.012	0.053	0.027	0.060	7256	3
302	114	0.017	0.028	-0.049	0.033	0.059	11877	30
122	123	0.050	-0.013	-0.029	0.051	0.059	16067	11
27	36	0.002	-0.015	0.057	0.015	0.059	12828	166
117	108	0.015	0.038	-0.041	0.041	0.058	15742	20
123	114	-0.048	-0.022	-0.023	0.053	0.058	15972	31
46	45	-0.001	-0.004	0.058	0.004	0.058	10530	137
36	37	-0.019	-0.008	-0.053	0.020	0.057	15778	141
200	124	-0.004	0.021	0.053	0.022	0.057	15464	5
44	53	0.001	-0.006	0.055	0.006	0.055	14864	152
47	46	-0.004	-0.004	0.052	0.005	0.053	20910	136
101	100	-0.008	-0.004	-0.052	0.009	0.053	15865	46
70	69	0.006	-0.012	-0.051	0.014	0.052	15797	96
62	53	-0.002	0.017	0.049	0.017	0.052	15772	123
37	38	-0.016	-0.007	-0.048	0.018	0.051	15226	142
71	62	0.002	0.028	0.042	0.028	0.051	16721	122
12	11	-0.005	-0.035	-0.036	0.035	0.051	13741	189
24	A4581	0.015	0.002	-0.048	0.015	0.050	10202	179
45	309	-0.009	0.007	-0.048	0.011	0.050	15047	139
49	58	0.001	0.005	-0.049	0.005	0.049	15637	131
8	15	-0.001	-0.012	-0.047	0.012	0.048	10528	209
31	30	0.011	-0.003	-0.047	0.011	0.048	14809	160
112	113	0.017	0.028	-0.036	0.032	0.048	16062	28

63	54	-0.020	0.015	0.040	0.025	0.047	15791	110
203	120	-0.012	-0.019	-0.039	0.023	0.045	5882	14
25	16	0.003	0.011	0.044	0.011	0.045	15496	183
108	205	-0.014	-0.010	0.041	0.017	0.044	26545	21
116	200	0.002	0.040	0.018	0.040	0.044	15755	34
51	50	-0.004	0.001	-0.044	0.004	0.044	16140	170
92	101	0.009	-0.007	0.042	0.011	0.043	15817	54
102	103	0.011	0.014	-0.039	0.018	0.043	15535	82
90	91	0.006	0.008	0.042	0.010	0.043	10466	52
13	12	-0.002	-0.037	0.019	0.037	0.042	20120	188
23	33	0.026	0.001	0.032	0.026	0.041	15786	178
98	303	-0.019	-0.027	0.023	0.033	0.041	3206	63
112	111	-0.028	-0.017	0.023	0.033	0.041	16684	27
19	29	-0.010	-0.005	0.038	0.012	0.040	14424	218
110	119	-0.005	-0.006	0.039	0.008	0.040	15801	25
8	214	-0.012	-0.003	0.038	0.013	0.040	51502	211
86	85	-0.010	0.014	-0.035	0.017	0.039	16231	72
2	212	-0.001	0.012	0.037	0.012	0.039	22364	200
77	208	0.026	0.003	-0.027	0.026	0.038	6159	1
52	307	0.004	0.013	0.035	0.014	0.037	7718	125
38	47	0.002	-0.015	0.034	0.015	0.037	15141	143
42	31	0.016	0.012	0.031	0.020	0.037	35815	156
47	56	0.013	-0.023	0.026	0.026	0.037	17279	135
81	72	-0.019	0.012	-0.029	0.022	0.036	14598	79
303	107	-0.005	0.033	-0.014	0.034	0.036	12681	64
212	13	0.023	-0.022	0.017	0.032	0.036	7319	213
108	109	0.015	0.029	-0.015	0.032	0.036	15796	22
23	14	-0.019	-0.004	0.030	0.020	0.036	15112	185
54	55	-0.003	0.005	-0.035	0.006	0.036	15972	111
27	26	0.000	0.012	0.034	0.012	0.036	9225	165
109	110	0.016	0.028	0.014	0.032	0.035	16182	23
116	301	0.002	-0.030	-0.018	0.030	0.035	2071	35
8	16	-0.016	-0.007	0.030	0.018	0.035	18233	210
14	13	-0.026	-0.016	0.017	0.031	0.035	13124	187
50	49	-0.004	0.002	-0.034	0.004	0.035	15409	130
105	207	-0.025	0.001	0.024	0.025	0.034	2534	40
33	32	0.013	0.001	-0.031	0.013	0.034	15449	157
127	126	-0.021	-0.007	0.025	0.022	0.034	10752	2
60	61	0.001	-0.012	-0.030	0.012	0.033	15463	120
17	26	-0.013	-0.016	0.026	0.020	0.032	12549	195
19	20	0.013	-0.006	0.029	0.015	0.032	15985	172
89	88	-0.004	0.003	0.032	0.006	0.032	14993	67
85	84	-0.004	-0.007	0.031	0.009	0.032	15303	74
99	108	-0.015	-0.020	-0.020	0.025	0.032	16121	50
93	94	0.019	0.004	0.025	0.020	0.032	16125	56
103	104	0.020	0.000	-0.024	0.020	0.032	16111	43
58	59	-0.023	0.012	-0.019	0.026	0.032	17733	116
92	93	0.018	0.005	0.025	0.019	0.032	15102	55
94	103	0.020	-0.001	0.024	0.020	0.031	17245	58
107	106	-0.004	0.004	0.031	0.006	0.031	14953	37
56	55	0.011	-0.006	0.028	0.013	0.031	15476	113
63	72	0.027	-0.013	0.007	0.030	0.031	16024	109
114	115	0.006	0.010	0.028	0.012	0.030	14756	32
94	85	0.003	0.001	-0.030	0.003	0.030	14568	73
129	77	-0.007	-0.002	-0.029	0.008	0.030	7098	88
304	86	-0.010	0.013	-0.024	0.017	0.029	5486	71
112	103	-0.010	-0.013	-0.024	0.016	0.029	15963	42

51	42	0.007	0.017	0.022	0.018	0.029	15824	149
121	203	-0.011	-0.019	0.018	0.022	0.029	9484	13
97	98	-0.010	-0.009	0.025	0.013	0.029	16812	62
29	38	0.000	-0.007	-0.028	0.007	0.029	17531	162
1	2	-0.003	-0.015	0.024	0.015	0.028	16673	199
21	31	-0.002	-0.012	-0.025	0.012	0.028	15626	174
35	34	-0.017	-0.012	-0.019	0.021	0.028	15199	154
46	125	-0.008	0.005	-0.026	0.010	0.028	15301	169
66	65	-0.014	0.003	0.024	0.014	0.027	16230	105
45	54	0.016	-0.012	0.019	0.020	0.027	15666	138
64	63	0.007	0.003	-0.026	0.007	0.027	16239	108
117	204	0.015	0.011	-0.020	0.018	0.027	6542	18
96	105	0.018	0.002	0.020	0.018	0.027	15931	60
59	60	-0.021	0.011	0.013	0.024	0.027	15864	118
74	75	-0.011	-0.004	0.024	0.011	0.027	14981	99
44	35	-0.025	-0.004	0.006	0.026	0.026	16958	153
12	5	-0.004	0.008	0.025	0.009	0.026	12495	214
18	19	-0.011	-0.002	0.024	0.011	0.026	16303	168
9	17	-0.014	-0.017	0.014	0.022	0.026	19318	194
43	44	-0.022	-0.008	-0.010	0.024	0.026	15975	151
106	105	-0.004	0.004	0.025	0.006	0.025	15760	38
121	112	-0.024	-0.002	-0.005	0.024	0.025	15859	26
67	66	-0.014	0.003	0.020	0.014	0.025	17268	104
92	83	-0.022	0.010	-0.003	0.024	0.025	16405	75
80	71	0.011	0.017	0.014	0.020	0.025	14778	94
75	306	-0.010	-0.004	0.022	0.011	0.025	1579	84
76	67	-0.004	0.017	0.017	0.018	0.025	16910	102
83	82	-0.023	0.004	0.008	0.023	0.024	16107	77
100	99	-0.010	-0.004	-0.022	0.011	0.024	15079	48
42	43	-0.021	-0.009	0.010	0.022	0.024	16113	150
90	81	-0.001	0.008	-0.023	0.008	0.024	17954	51
65	64	0.005	0.003	-0.023	0.006	0.024	14839	106
57	58	-0.012	-0.011	0.017	0.016	0.024	11917	115
71	70	0.006	-0.011	-0.020	0.012	0.023	15733	95
307	51	0.005	0.011	0.020	0.012	0.023	11067	127
96	97	-0.010	-0.009	0.019	0.013	0.023	14499	61
4	11	0.007	0.019	0.011	0.020	0.023	10672	198
67	126	0.023	-0.002	-0.001	0.023	0.023	9729	103
14	15	0.022	0.006	0.000	0.023	0.023	15800	186
40	31	-0.022	-0.001	-0.004	0.022	0.023	16379	159
82	81	-0.021	0.004	-0.005	0.022	0.023	15900	78
21	22	0.018	0.000	0.013	0.018	0.022	16654	175
60	69	-0.017	0.014	0.004	0.022	0.022	16602	119
208	130	0.016	0.004	-0.016	0.016	0.022	12633	90
98	89	0.010	0.017	0.010	0.020	0.022	15657	65
23	24	0.012	0.003	-0.018	0.012	0.022	16105	177
20	21	0.011	-0.007	0.018	0.013	0.022	15526	173
7	14	0.016	-0.003	-0.015	0.016	0.022	10959	205
42	33	0.000	0.009	0.020	0.009	0.022	15816	155
87	96	0.013	-0.012	-0.012	0.018	0.021	15982	69
130	87	0.006	-0.004	0.020	0.007	0.021	10976	91
4	1	-0.003	-0.015	-0.014	0.015	0.021	10567	217
12	10	0.000	-0.008	0.019	0.008	0.021	29946	191
10	9	-0.014	-0.015	0.003	0.020	0.020	16066	193
29	28	-0.002	0.000	0.020	0.002	0.020	21740	163
A4581	25	0.011	0.004	-0.016	0.011	0.020	5140	181
99	90	0.005	0.015	-0.011	0.016	0.019	16299	49

32	31	0.014	0.000	-0.013	0.014	0.019	16785	158
A4061	212	0.003	0.001	-0.019	0.003	0.019	6972	203
89	80	0.012	0.014	-0.005	0.019	0.019	16248	66
7	8	-0.017	-0.006	-0.002	0.018	0.018	15854	206
56	57	-0.012	-0.011	0.009	0.016	0.018	18266	114
22	23	0.018	0.000	0.001	0.018	0.018	15030	176
49	40	-0.014	-0.009	0.007	0.017	0.018	15295	145
102	101	-0.011	-0.014	-0.002	0.017	0.018	15891	45
16	214	0.008	0.001	0.015	0.008	0.018	61038	212
73	74	0.005	-0.001	-0.017	0.006	0.017	16299	81
19	10	-0.014	0.011	0.003	0.017	0.017	18249	192
33	34	0.013	0.011	0.002	0.017	0.017	16440	180
300	202	0.012	-0.010	-0.006	0.015	0.017	26680	8
26	18	-0.011	-0.003	0.012	0.011	0.016	17009	167
3	A4061	0.002	0.001	-0.016	0.003	0.016	8777	202
40	41	-0.009	-0.004	-0.012	0.010	0.016	15919	147
38	39	-0.014	0.003	-0.006	0.015	0.016	15751	144
94	95	-0.005	0.005	0.014	0.007	0.016	15574	57
309	36	-0.012	0.008	0.006	0.014	0.016	5129	140
69	128	-0.008	-0.003	0.013	0.009	0.015	10382	97
25	35	0.008	-0.007	0.011	0.011	0.015	15831	182
208	305	0.009	-0.001	0.012	0.009	0.015	3105	128
130	78	0.009	0.003	0.012	0.009	0.015	3738	98
77	305	-0.009	0.001	-0.012	0.009	0.015	3056	89
40	39	0.014	-0.003	0.000	0.014	0.014	15800	146
308	48	0.006	0.006	0.011	0.008	0.014	2042	133
79	80	0.000	0.003	-0.014	0.003	0.014	16298	93
65	56	-0.013	0.003	0.003	0.013	0.013	14546	112
115	116	0.003	0.011	-0.005	0.012	0.013	15905	33
61	62	0.000	-0.012	0.001	0.012	0.012	15774	121
12	21	0.006	-0.005	0.009	0.008	0.012	16115	215
65	74	-0.007	-0.002	0.009	0.008	0.012	15570	107
69	126	-0.003	0.007	-0.009	0.007	0.012	21481	100
41	42	-0.009	-0.004	-0.006	0.010	0.012	15378	148
306	76	-0.010	-0.004	0.003	0.011	0.011	15565	85
60	51	-0.003	0.008	0.007	0.009	0.011	15000	126
78	128	0.008	0.003	0.006	0.009	0.011	6581	83
48	47	0.007	-0.007	-0.003	0.010	0.011	15522	134
125	55	-0.009	0.002	-0.001	0.010	0.010	12577	129
91	92	0.004	0.007	0.005	0.008	0.010	16572	53
83	84	0.006	0.007	0.000	0.009	0.009	15771	76
49	308	0.006	0.006	0.000	0.009	0.009	14575	132
4	A4002	-0.003	-0.004	-0.007	0.005	0.009	5575	196
74	83	0.008	0.001	0.000	0.008	0.008	15707	44
95	96	-0.005	0.005	-0.003	0.007	0.008	16918	59
88	87	-0.003	0.003	0.005	0.005	0.007	16981	68
A4002	11	-0.003	-0.004	-0.003	0.005	0.006	12134	197
72	73	-0.006	-0.001	0.002	0.006	0.006	15692	80
76	129	-0.005	-0.001	-0.002	0.005	0.006	11636	87
A4002	1	0.000	0.000	-0.004	0.000	0.004	11887	171
130	79	-0.001	0.003	0.003	0.003	0.004	15897	92
68	126	0.000	0.000	-0.002	0.000	0.002	6680	101

Adjusted Azimuths and Horizontal Distances (US Feet)

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 (Relative Confidence of Azimuth is in Seconds)

From	To	Grid Azimuth	Grid Dist Grnd Dist	95% RelConfidence		
				Azi	Dist	PPM
1	2	358-22-23.19	16671.4532 16673.1826	0.73	0.0602	3.6095
2	3	5-11-21.09	20508.6212 20510.7591	0.56	0.0570	2.7795
2	212	45-17-21.07	22361.5735 22363.8818	0.51	0.0540	2.4155
3	7	48-33-54.89	15002.2473 15003.7942	0.80	0.0581	3.8694
3	A4061	90-46-45.47	8775.7077 8776.6175	1.48	0.0587	6.6934
4	1	270-32-56.10	10565.7090 10566.8058	1.02	0.0515	4.8789
4	11	90-09-38.69	10670.2952 10671.4248	1.02	0.0519	4.8614
4	A4002	181-14-50.22	5574.7774 5575.3556	1.82	0.0500	8.9621
5	2	277-44-45.65	10017.4785 10018.5184	1.19	0.0571	5.6976
7	8	0-39-56.76	15851.0641 15852.7105	0.64	0.0495	3.1250
7	14	91-14-01.05	10957.8204 10958.9331	0.97	0.0511	4.6668
7	310	307-24-55.58	52513.9744 52519.5150	0.24	0.0617	1.1742
8	15	91-34-30.78	10526.3337 10527.4327	0.97	0.0491	4.6666
8	16	37-25-09.24	18231.0941 18233.0263	0.54	0.0480	2.6318
8	214	284-11-17.06	51496.6917 51502.1001	0.25	0.0611	1.1862
9	17	148-39-59.11	19316.4845 19318.4662	0.70	0.0642	3.3216
10	9	181-45-00.86	16064.1466 16065.8085	0.81	0.0683	4.2539
11	10	182-29-21.07	16204.0316 16205.7481	0.71	0.0576	3.5539
12	5	277-55-05.28	12490.8729 12492.2587	0.94	0.0564	4.5115
12	10	182-28-28.84	29941.6630 29944.9781	0.37	0.0546	1.8242
12	11	182-27-27.24	13737.6325 13739.1837	0.79	0.0539	3.9243
12	21	86-28-30.29	16113.3522 16115.2388	0.67	0.0519	3.2220
13	12	182-15-51.99	20117.1108 20119.3940	0.55	0.0543	2.7008
14	13	184-12-59.70	13121.6509 13123.0370	0.88	0.0563	4.2928
14	15	359-05-52.29	15798.5038 15800.1178	0.71	0.0548	3.4659

16	15	182-09-16.49	14779.1390 14780.6744	0.72	0.0519	3.5142
16	214	268-15-22.41	61032.1082 61038.4776	0.21	0.0625	1.0237
17	26	91-15-17.02	12548.0648 12549.3457	1.04	0.0624	4.9719
18	19	4-53-17.68	16301.3628 16303.0541	0.75	0.0603	3.6967
19	10	271-17-17.79	18246.7029 18248.6006	0.66	0.0544	2.9803
19	20	352-23-24.34	15981.5959 15983.3417	0.75	0.0588	3.6789
19	29	70-00-41.45	14421.6912 14423.2611	0.79	0.0545	3.7800
20	21	4-37-06.31	15524.2328 15526.0231	0.77	0.0584	3.7626
21	22	1-34-38.05	16651.8558 16653.7564	0.73	0.0586	3.5182
21	31	95-41-19.19	15623.8155 15625.6011	0.70	0.0524	3.3538
22	23	1-12-45.93	15028.2197 15029.9032	0.80	0.0582	3.8751
23	14	271-59-48.45	15108.7954 15110.4143	0.75	0.0547	3.6203
23	24	1-33-21.36	16102.5509 16104.3076	0.78	0.0622	3.8651
23	33	93-39-09.12	15783.7577 15785.5505	0.71	0.0542	3.4332
24	A4581	1-01-30.84	10200.5479 10201.5918	1.24	0.0634	6.2107
25	16	268-44-01.24	15493.5364 15495.1146	0.81	0.0604	3.8999
25	35	92-57-05.86	15828.3646 15829.9882	0.80	0.0603	3.8113
26	18	342-01-58.96	17007.7615 17009.5074	0.72	0.0603	3.5427
27	26	265-55-27.67	9222.9873 9223.9664	1.36	0.0599	6.4916
27	36	91-28-18.07	12825.7078 12827.0873	1.01	0.0609	4.7515
28	27	181-33-30.36	14963.4511 14965.1830	0.84	0.0640	4.2770
29	28	180-14-05.04	21736.9842 21739.5358	0.58	0.0631	2.9024
29	38	111-12-06.42	17528.9843 17530.9921	0.66	0.0550	3.1376
30	29	182-46-36.82	10054.7141 10055.8489	1.22	0.0640	6.3628
31	30	182-28-43.57	14807.1509 14808.8127	0.82	0.0601	4.0608
32	31	182-20-10.58	16782.7678 16784.6626	0.70	0.0576	3.4344
33	32	181-06-07.20	15447.6040 15449.3696	0.76	0.0574	3.7180
33	34	1-33-27.16	16437.0579 16438.8644	0.75	0.0607	3.6954

35	34	181-09-12 49	15196 6426 15198 2521	0.83	0.0666	4.3829
36	37	10-44-49 22	15775 2042 15776 9374	0.84	0.0664	4.2117
37	38	4-03-01 84	15224 2177 15225 9721	0.84	0.0640	4.2009
38	39	1-34-07 04	15748 7698 15750 6058	0.76	0.0588	3.7308
38	47	92-23-23 47	15138 7161 15140 4917	0.76	0.0552	3.6447
40	31	268-46-47 44	16376 5569 16378 4217	0.66	0.0515	3.1418
40	39	182-38-12 09	15798 2052 15800 0465	0.76	0.0586	3.7099
40	41	359-38-58 01	15917 5511 15919 3771	0.75	0.0582	3.6576
41	42	1-53-48 06	15376 5111 15378 2452	0.77	0.0581	3.7755
42	31	207-56-58 17	35811 0221 35815 0342	0.30	0.0515	1.4391
42	33	272-06-00 33	15813 7660 15815 5584	0.68	0.0518	3.2729
42	43	0-22-13 59	16110 6505 16112 4631	0.76	0.0603	3.7413
43	44	6-28-18 61	15973 4356 15975 1847	0.77	0.0611	3.8239
44	35	270-45-01 68	16956 5127 16958 3159	0.79	0.0602	3.5530
44	53	91-51-34 34	14862 0236 14863 6250	0.87	0.0601	4.0423
45	54	93-25-50 55	15663 8137 15665 4823	0.78	0.0576	3.6764
45	309	261-01-12 35	15042 6769 15044 3240	0.85	0.0614	4.0817
46	45	180-16-07 96	10526 2763 10527 4184	1.13	0.0594	5.6390
46	125	34-10-22 93	15299 6959 15301 4421	0.81	0.0608	3.9742
47	46	181-56-42 65	20907 7298 20910 1695	0.58	0.0593	2.8378
47	56	93-39-09 16	17275 2177 17277 1619	0.64	0.0529	3.0641
48	47	182-41-50 01	15519 7349 15521 5841	0.71	0.0538	3.4692
49	40	272-20-00 15	15292 8332 15294 6065	0.73	0.0541	3.5350
49	58	99-05-41 25	15635 0966 15636 9028	0.72	0.0542	3.4657
49	308	187-23-46 56	14572 7072 14574 4368	0.81	0.0576	3.9509
50	49	181-34-50 96	15407 0491 15408 8455	0.78	0.0584	3.7918
51	42	271-22-03 03	15821 7531 15823 5503	0.71	0.0539	3.4080
51	50	181-51-33 49	16137 6899 16139 5647	0.75	0.0590	3.6556

52	307	141-18-04 89	7717.2106 7718.0960	1.72	0.0642	8.3151
53	52	182-26-06 26	16040.7361 16042.5306	0.84	0.0703	4.3796
54	55	8-43-41 17	15970.1410 15971.9182	0.73	0.0578	3.6174
56	55	179-46-40 98	15473.5720 15475.2608	0.75	0.0573	3.7017
56	57	357-41-07 57	18264.4771 18266.4330	0.66	0.0583	3.1947
57	58	1-11-42 26	11915.1170 11916.4437	1.01	0.0582	4.8827
58	59	2-20-16 03	17730.3186 17732.2898	0.69	0.0600	3.3858
58	67	81-11-56 89	14941.3461 14943.0010	0.75	0.0540	3.6120
59	60	359-11-59 86	15862.2912 15864.0169	0.77	0.0603	3.8042
60	51	271-37-32 53	14997.6952 14999.3856	0.77	0.0550	3.6684
60	61	4-29-55 36	15461.6265 15463.3286	0.80	0.0605	3.9140
60	69	90-45-33 18	16599.6734 16601.4617	0.70	0.0555	3.3434
61	62	1-41-53 84	15772.1650 15773.9071	0.78	0.0607	3.8485
62	53	274-05-07 55	15770.3668 15772.1054	0.88	0.0616	3.9089
63	54	272-58-30 88	15788.9287 15790.6685	0.78	0.0585	3.7044
63	72	90-25-42 26	16022.0118 16023.7774	0.77	0.0590	3.6815
64	63	182-03-10 19	16237.6298 16239.4343	0.75	0.0602	3.7073
65	56	274-02-01 21	14543.6672 14545.2744	0.78	0.0539	3.7042
65	64	182-00-55 62	14837.1009 14838.7860	0.82	0.0601	4.0473
65	74	87-23-35 18	15567.7474 15569.5395	0.73	0.0545	3.5001
66	65	181-41-31 58	16227.6802 16229.5312	0.74	0.0588	3.6245
67	66	177-38-29 24	17265.2012 17267.1010	0.70	0.0590	3.4182
67	126	9-03-10 20	9727.5197 9728.5610	1.19	0.0562	5.7731
68	126	182-42-16 11	6679.0137 6679.7279	2.15	0.0699	10.4690
69	126	182-08-42 30	21479.0175 21481.3036	0.56	0.0591	2.7527
69	128	90-50-21 91	10380.7875 10381.9006	1.22	0.0609	5.8703
70	69	181-25-52 60	15794.9235 15796.6096	0.78	0.0602	3.8131
71	62	269-47-49 29	16718.6281 16720.4438	0.76	0.0590	3.5274

71	70	185-07-39.30	15731.3664 15733.0537	0.77	0.0601	3.8227
72	73	5-42-46.92	15690.7091 15692.4603	0.78	0.0603	3.8410
73	74	356-44-02.73	16296.6938 16298.5529	0.74	0.0592	3.6307
74	75	2-35-07.01	14979.4509 14981.1999	0.83	0.0610	4.0712
74	83	91-37-08.17	15705.5316 15707.3270	0.72	0.0542	3.4522
75	306	56-31-42.47	1578.4458 1578.6329	7.88	0.0603	38.2087
76	67	274-43-46.62	16908.3751 16910.1955	0.66	0.0543	3.2101
76	85	92-47-28.15	15688.5063 15690.2668	0.75	0.0564	3.5948
76	129	25-46-11.42	11633.9331 11635.2330	1.07	0.0608	5.2255
77	127	224-26-33.45	7255.4433 7256.2577	1.77	0.0631	8.6988
77	208	339-04-25.41	6157.4391 6158.1136	1.85	0.0555	9.0175
77	305	337-43-08.68	3055.6144 3055.9543	4.34	0.0625	20.4518
78	128	275-24-29.05	6580.1707 6580.8763	1.91	0.0607	9.2264
79	80	1-16-15.23	16296.1818 16297.9181	0.76	0.0606	3.7187
80	71	273-06-07.49	14776.3782 14777.9452	0.84	0.0590	3.9917
81	72	271-54-16.95	14596.6751 14598.2835	0.85	0.0585	4.0081
82	81	185-40-31.07	15898.4651 15900.2104	0.77	0.0613	3.8542
83	82	180-36-42.54	16104.8234 16106.6181	0.76	0.0612	3.8019
83	84	2-50-20.11	15769.2275 15771.0509	0.76	0.0587	3.7216
85	84	180-57-50.62	15300.9946 15302.7840	0.79	0.0591	3.8616
86	85	182-34-05.87	16229.2926 16231.1549	0.78	0.0619	3.8130
87	96	89-02-51.29	15980.1926 15981.9286	0.72	0.0559	3.4958
87	304	188-50-14.25	10494.5974 10495.7702	1.23	0.0623	5.9399
88	87	181-41-59.33	16979.2555 16981.0806	0.72	0.0616	3.6293
89	80	269-48-00.28	16246.4453 16248.1711	0.76	0.0583	3.5896
89	88	182-32-22.36	14991.2133 14992.8154	0.81	0.0613	4.0904
90	81	254-55-11.31	17952.2060 17954.2059	0.70	0.0595	3.3148
90	91	1-49-43.72	10464.3306 10465.5235	1.17	0.0600	5.7363

91	92	1-39-08 94	16570.4179 16572.3282	0.73	0.0595	3.5901
92	83	270-48-28 30	16403.2293 16405.1046	0.69	0.0540	3.2942
92	93	0-12-49 65	15099.8757 15101.6262	0.79	0.0579	3.8362
92	101	93-17-00 79	15815.2109 15817.0397	0.71	0.0544	3.4391
93	94	356-57-52 88	16122.6565 16124.5569	0.75	0.0587	3.6431
94	85	270-18-55 27	14565.9804 14567.6933	0.78	0.0546	3.7461
94	95	7-11-48 89	15572.5122 15574.3515	0.79	0.0584	3.7515
94	103	92-17-42 15	17243.0511 17245.0856	0.66	0.0567	3.2862
95	96	3-04-46 94	16916.0332 16917.9455	0.71	0.0583	3.4451
96	97	1-33-48 29	14497.3917 14498.9781	0.83	0.0583	4.0219
96	105	93-20-32 42	15929.2013 15930.9439	0.72	0.0555	3.4820
97	98	1-30-54 17	16809.7257 16811.5581	0.71	0.0584	3.4730
98	89	271-24-56 99	15654.8412 15656.5257	0.80	0.0581	3.7125
98	303	91-32-44 78	3205.9866 3206.3362	3.71	0.0567	17.6912
99	90	287-08-56 61	16297.4116 16299.2561	0.75	0.0584	3.5837
99	108	95-28-08 19	16118.5319 16120.3823	0.75	0.0575	3.5675
100	99	182-11-36 44	15077.1072 15078.7783	0.81	0.0592	3.9277
101	100	181-37-47 18	15862.4605 15864.2377	0.77	0.0592	3.7301
101	110	91-47-42 42	15945.3749 15947.2195	0.70	0.0541	3.3925
102	101	181-00-00 14	15888.7009 15890.5460	0.75	0.0578	3.6401
102	103	1-20-51 15	15533.1750 15534.9852	0.77	0.0579	3.7296
103	104	2-45-52 61	16108.8555 16110.7376	0.78	0.0617	3.8313
105	114	88-16-55 18	15787.4564 15789.2291	0.72	0.0539	3.4149
105	207	148-10-00 47	2534.1645 2534.4431	5.14	0.0635	25.0518
106	105	181-53-38 48	15757.5141 15759.2587	0.76	0.0593	3.7638
107	106	180-50-28 12	14951.7055 14953.3516	0.80	0.0594	3.9726
108	109	2-17-26 08	15793.8792 15795.7013	0.74	0.0575	3.6382
108	205	126-45-10 97	26541.4258 26544.3516	0.47	0.0602	2.2667

109	110	1-01-28.82	16180.1292 16181.9908	0.73	0.0575	3.5516
110	111	1-19-37.28	15358.7637 15360.5540	0.76	0.0569	3.7023
110	119	91-16-25.09	15799.3175 15801.1228	0.63	0.0482	3.0501
112	103	269-34-24.96	15960.9251 15962.7876	0.70	0.0540	3.3821
112	111	181-03-51.33	16681.6723 16683.6267	0.70	0.0573	3.4369
112	113	2-31-05.12	16060.0504 16061.9421	0.79	0.0615	3.8294
113	302	350-36-22.99	4684.1667 4684.7223	3.16	0.0692	14.7740
114	115	2-12-43.49	14754.5081 14756.1599	0.83	0.0600	4.0664
115	116	0-44-38.80	15902.9110 15904.6520	0.76	0.0593	3.7299
116	200	93-29-03.44	15753.4064 15755.1458	0.75	0.0568	3.6034
116	301	272-20-56.68	2070.5104 2070.7398	5.99	0.0593	28.6306
117	108	272-08-55.92	15739.5541 15741.3473	0.66	0.0501	3.1862
117	204	200-06-03.63	6540.9344 6541.6552	1.90	0.0596	9.1072
118	117	182-18-04.54	15983.5279 15985.3553	0.00	0.0000	0.0000
119	118	181-13-13.80	16230.8405 16232.7066	0.00	0.0000	0.0000
120	119	181-11-59.14	15413.5276 15415.2895	0.00	0.0000	0.0000
121	112	275-50-27.09	15857.3976 15859.2569	0.65	0.0489	3.0829
121	203	181-34-32.11	9483.0430 9484.1599	1.07	0.0495	5.2148
122	121	182-36-38.18	16527.7200 16529.6507	0.00	0.0000	0.0000
122	123	2-34-51.16	16065.0413 16066.8970	0.00	0.0000	0.0000
123	114	275-25-59.74	15970.5308 15972.3685	0.64	0.0489	3.0644
124	123	181-12-56.51	15743.7312 15745.5228	0.00	0.0000	0.0000
124	300	67-30-25.39	26669.5096 26672.5149	0.41	0.0532	1.9950
125	55	131-31-12.01	12576.0513 12577.4702	0.98	0.0595	4.7305
127	126	271-22-20.50	10749.9096 10751.0903	1.18	0.0617	5.7417
129	77	320-06-57.97	7097.4226 7098.2279	1.77	0.0607	8.5507
130	78	271-45-31.01	3735.5439 3735.9482	3.39	0.0609	16.3112
130	79	343-39-53.93	15895.1298 15896.8657	0.77	0.0603	3.7956

130	87	91-48-22.30	10974.7829 10975.9849	1.08	0.0572	5.2091
200	124	180-59-28.84	15461.9881 15463.7141	0.68	0.0509	3.2906
201	123	268-46-25.33	14338.8950 14340.5596	0.93	0.0608	4.2422
202	201	276-23-17.01	6792.3025 6793.0891	2.00	0.0654	9.6213
203	120	180-36-04.38	5881.5930 5882.2798	1.72	0.0494	8.4073
204	205	139-36-15.91	12012.8351 12014.1145	1.04	0.0605	5.0338
207	104	188-35-03.83	14017.1623 14018.7567	0.95	0.0697	4.9738
208	130	38-22-08.69	12631.1698 12632.5465	1.00	0.0612	4.8482
208	305	160-24-26.84	3103.5195 3103.8566	4.28	0.0627	20.1957
212	13	79-46-41.90	7317.2257 7318.0027	1.49	0.0522	7.1401
300	200	282-10-15.41	24933.5906 24936.3787	0.45	0.0549	2.2006
300	202	188-22-56.70	26676.9735 26680.0096	0.48	0.0622	2.3320
301	107	267-53-57.44	13756.5700 13758.0811	0.91	0.0592	4.3051
302	114	6-49-32.10	11876.0363 11877.4240	1.07	0.0613	5.1649
303	107	96-31-00.54	12679.5305 12680.9117	0.88	0.0540	4.2572
304	86	170-38-30.39	5485.6380 5486.2666	2.30	0.0618	11.2644
306	76	356-35-38.69	15561.6843 15563.4572	0.81	0.0610	3.9221
307	51	207-21-24.00	11065.7278 11067.0048	1.16	0.0628	5.6772
308	48	140-40-08.31	2041.3608 2041.6064	5.74	0.0567	27.7968
309	36	316-30-44.60	5122.3580 5122.9256	2.52	0.0635	12.3955
310	8	110-58-15.16	44865.2177 44870.0685	0.27	0.0589	1.3129
A4002	1	298-31-02.79	11885.9795 11887.2154	0.90	0.0521	4.3875
A4002	11	62-48-39.46	12132.1595 12133.4458	0.92	0.0527	4.3434
A4061	212	130-59-41.13	6971.4426 6972.1586	1.82	0.0613	8.7914
A4581	25	0-51-41.64	5139.1345 5139.6413	2.47	0.0626	12.1857

Convergence Angles and Grid Factors at Stations

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(Grid Azimuth = Geodetic Azimuth - Convergence)

(Elevation Factor Includes a Geoid Height Correction at Each Station)

Station	Convergence Angle	----- Factors -----		
		Scale	x Elevation	= Combined
1	-2-07-54.99	0.99994546	0.99995047	0.99989593
2	-2-08-04.91	0.99994611	0.99995055	0.99989667
3	-2-07-54.98	0.99994779	0.99994716	0.99989495
4	-2-06-19.13	0.99994546	0.99995098	0.99989645
5	-2-06-34.37	0.99994606	0.99994967	0.99989573
7	-2-06-16.12	0.99994900	0.99994985	0.99989885
8	-2-06-19.74	0.99995133	0.99994217	0.99989349
9	-2-04-42.57	0.99994596	0.99995082	0.99989678
10	-2-04-43.40	0.99994542	0.99995095	0.99989637
11	-2-04-42.35	0.99994547	0.99994637	0.99989184
12	-2-04-41.52	0.99994599	0.99993639	0.99988238
13	-2-04-40.93	0.99994752	0.99994321	0.99989073
14	-2-04-36.47	0.99994902	0.99994903	0.99989805
15	-2-04-43.95	0.99995134	0.99994635	0.99989770
16	-2-04-43.77	0.99995404	0.99994054	0.99989458
17	-2-03-06.23	0.99994709	0.99995098	0.99989807
18	-2-02-05.29	0.99994596	0.99995103	0.99989699
19	-2-01-57.93	0.99994542	0.99995016	0.99989558
20	-2-02-22.22	0.99994547	0.99994055	0.99988602
21	-2-02-15.88	0.99994607	0.99993735	0.99988342
22	-2-02-17.10	0.99994733	0.99994105	0.99988838
23	-2-02-19.06	0.99994902	0.99993861	0.99988763
24	-2-02-20.30	0.99995140	0.99994285	0.99989425
25	-2-02-22.90	0.99995422	0.99994745	0.99990167
26	-2-01-12.60	0.99994708	0.99995069	0.99989777
27	-1-59-49.54	0.99994699	0.99994294	0.99988994
28	-1-59-50.58	0.99994596	0.99993268	0.99987864
29	-1-59-56.64	0.99994537	0.99994134	0.99988671
30	-1-59-55.41	0.99994546	0.99994216	0.99988762
31	-1-59-54.28	0.99994602	0.99994197	0.99988799
32	-1-59-53.38	0.99994725	0.99993904	0.99988629
33	-1-59-55.58	0.99994896	0.99993621	0.99988518
34	-1-59-56.73	0.99995138	0.99994371	0.99989509
35	-1-59-58.77	0.99995416	0.99993898	0.99989315
36	-1-57-53.38	0.99994698	0.99994795	0.99989493
37	-1-57-31.55	0.99994592	0.99993947	0.99988540
38	-1-57-26.51	0.99994542	0.99993877	0.99988420
39	-1-57-27.48	0.99994546	0.99993726	0.99988272
40	-1-57-25.78	0.99994607	0.99993818	0.99988425
41	-1-57-31.61	0.99994726	0.99993913	0.99988639
42	-1-57-31.76	0.99994896	0.99993916	0.99988812
43	-1-57-35.82	0.99995132	0.99993561	0.99988693
44	-1-57-24.38	0.99995424	0.99993989	0.99989413
45	-1-55-06.56	0.99994705	0.99995048	0.99989753
46	-1-55-09.31	0.99994625	0.99993926	0.99988552
47	-1-55-09.22	0.99994542	0.99993578	0.99988121
48	-1-55-07.31	0.99994545	0.99993510	0.99988056
49	-1-55-06.90	0.99994606	0.99993775	0.99988382
50	-1-55-07.72	0.99994720	0.99993585	0.99988306
51	-1-55-07.88	0.99994898	0.99993570	0.99988468

52	-1-55-10.34	0.99995130	0.99993469	0.99988599
53	-1-55-09.03	0.99995424	0.99993609	0.99989034
54	-1-52-44.75	0.99994708	0.99994231	0.99988940
55	-1-52-27.49	0.99994597	0.99994214	0.99988811
56	-1-52-32.62	0.99994543	0.99994824	0.99989368
57	-1-52-44.73	0.99994550	0.99994673	0.99989224
58	-1-52-46.03	0.99994596	0.99993916	0.99988512
59	-1-52-44.74	0.99994723	0.99994537	0.99989261
60	-1-52-51.48	0.99994899	0.99994089	0.99988988
61	-1-52-45.05	0.99995125	0.99993876	0.99989001
62	-1-52-45.51	0.99995412	0.99993502	0.99988915
63	-1-50-21.78	0.99994711	0.99994308	0.99989019
64	-1-50-21.23	0.99994596	0.99994166	0.99988763
65	-1-50-20.82	0.99994544	0.99993985	0.99988529
66	-1-50-21.20	0.99994545	0.99994121	0.99988666
67	-1-50-32.68	0.99994611	0.99994723	0.99989334
68	-1-50-20.67	0.99994736	0.99994620	0.99989356
69	-1-50-20.54	0.99994903	0.99994561	0.99989464
70	-1-50-21.56	0.99995136	0.99994057	0.99989193
71	-1-50-13.35	0.99995424	0.99993938	0.99989362
72	-1-47-56.72	0.99994708	0.99994231	0.99988939
73	-1-47-47.01	0.99994597	0.99994149	0.99988747
74	-1-48-00.06	0.99994542	0.99993903	0.99988445
75	-1-47-58.19	0.99994544	0.99993665	0.99988210
76	-1-47-59.31	0.99994606	0.99994524	0.99989130
77	-1-47-59.25	0.99994724	0.99994057	0.99988782
78	-1-47-46.42	0.99994900	0.99994565	0.99989465
79	-1-47-57.44	0.99995121	0.99994151	0.99989271
80	-1-47-58.81	0.99995417	0.99994009	0.99989427
81	-1-45-44.52	0.99994708	0.99994313	0.99989022
82	-1-45-34.69	0.99994596	0.99994433	0.99989030
83	-1-45-37.62	0.99994542	0.99994147	0.99988689
84	-1-45-34.92	0.99994546	0.99993646	0.99988192
85	-1-45-36.85	0.99994604	0.99993821	0.99988425
86	-1-45-34.77	0.99994725	0.99993908	0.99988633
87	-1-45-32.63	0.99994900	0.99994302	0.99989202
88	-1-45-32.79	0.99995151	0.99994156	0.99989308
89	-1-45-30.93	0.99995429	0.99993895	0.99989324
90	-1-43-08.88	0.99994665	0.99994030	0.99988695
91	-1-43-08.70	0.99994598	0.99993911	0.99988509
92	-1-43-08.87	0.99994542	0.99993901	0.99988443
93	-1-43-12.47	0.99994545	0.99993834	0.99988380
94	-1-43-24.61	0.99994606	0.99993447	0.99988054
95	-1-43-11.11	0.99994721	0.99993609	0.99988331
96	-1-43-07.46	0.99994909	0.99994159	0.99989068
97	-1-43-07.82	0.99995123	0.99993931	0.99989054
98	-1-43-08.36	0.99995431	0.99993722	0.99989153
99	-1-40-46.59	0.99994701	0.99993966	0.99988667
100	-1-40-45.37	0.99994596	0.99994576	0.99989172
101	-1-40-45.49	0.99994542	0.99993885	0.99988428
102	-1-40-47.20	0.99994546	0.99993808	0.99988354
103	-1-40-48.02	0.99994605	0.99993740	0.99988346
104	-1-40-45.25	0.99994725	0.99993569	0.99988295
105	-1-40-42.65	0.99994903	0.99994145	0.99989049
106	-1-40-42.11	0.99995136	0.99993680	0.99988816
107	-1-40-44.10	0.99995409	0.99993761	0.99989171
108	-1-38-20.93	0.99994710	0.99993661	0.99988371

109	-1-38-19.31	0.99994598	0.99993965	0.99988563
110	-1-38-20.88	0.99994542	0.99993891	0.99988433
111	-1-38-21.64	0.99994545	0.99993716	0.99988261
112	-1-38-23.16	0.99994609	0.99993705	0.99988314
113	-1-38-20.92	0.99994730	0.99993405	0.99988136
114	-1-38-19.31	0.99994916	0.99993575	0.99988491
115	-1-38-17.97	0.99995135	0.99993990	0.99989125
116	-1-38-20.23	0.99995427	0.99993561	0.99988988
117	-1-35-58.39	0.99994711	0.99994129	0.99988841
118	-1-35-56.62	0.99994598	0.99993703	0.99988301
119	-1-35-57.59	0.99994542	0.99994169	0.99988712
120	-1-35-58.57	0.99994545	0.99993889	0.99988434
121	-1-35-59.54	0.99994602	0.99993632	0.99988234
122	-1-35-56.89	0.99994724	0.99993687	0.99988411
123	-1-35-54.38	0.99994902	0.99993592	0.99988494
124	-1-35-55.34	0.99995134	0.99993621	0.99988755
125	-1-53-55.28	0.99994562	0.99994064	0.99988626
126	-1-50-21.58	0.99994678	0.99994583	0.99989261
127	-1-48-43.91	0.99994678	0.99994093	0.99988772
128	-1-48-46.14	0.99994905	0.99994187	0.99989092
129	-1-47-16.37	0.99994679	0.99993849	0.99988528
130	-1-47-12.45	0.99994900	0.99993993	0.99988893
200	-1-35-56.83	0.99995417	0.99993509	0.99988926
201	-1-33-44.13	0.99994911	0.99993376	0.99988287
202	-1-32-42.57	0.99994903	0.99993649	0.99988553
203	-1-35-59.50	0.99994561	0.99993653	0.99988214
204	-1-36-17.19	0.99994771	0.99994350	0.99989121
205	-1-35-04.44	0.99994872	0.99994707	0.99989580
207	-1-40-29.92	0.99994877	0.99994085	0.99988962
208	-1-48-20.88	0.99994781	0.99994531	0.99989312
212	-2-05-45.90	0.99994737	0.99994954	0.99989691
214	-2-13-58.24	0.99995323	0.99994278	0.99989601
300	-1-32-13.66	0.99995327	0.99993374	0.99988701
301	-1-38-39.08	0.99995427	0.99993430	0.99988858
302	-1-38-29.07	0.99994776	0.99993369	0.99988146
303	-1-42-39.16	0.99995431	0.99993610	0.99989041
304	-1-45-44.39	0.99994778	0.99993674	0.99988453
305	-1-48-10.59	0.99994751	0.99994220	0.99988972
306	-1-47-46.50	0.99994546	0.99993546	0.99988092
307	-1-54-24.63	0.99995038	0.99993418	0.99988456
308	-1-55-19.52	0.99994549	0.99993339	0.99987888
309	-1-57-20.32	0.99994731	0.99993615	0.99988346
310	-2-12-46.37	0.99995395	0.99993602	0.99988998
A4002	-2-06-18.38	0.99994538	0.99995073	0.99989612
A4061	-2-06-35.23	0.99994781	0.99994990	0.99989771
A4581	-2-02-21.94	0.99995321	0.99994790	0.99990112
Project Averages:	-1-50-52.30	0.99994810	0.99994083	0.99988894

Error Propagation

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Station Coordinate Standard Deviations (US Feet)

Station	N	E	Elev
1	0.03106	0.03055	0.00000
2	0.02248	0.02201	0.00000
3	0.02579	0.02499	0.00000
4	0.03262	0.03210	0.00000
5	0.02873	0.02826	0.00000
7	0.02844	0.02799	0.00000
8	0.03189	0.03149	0.00000
9	0.03905	0.03753	0.00000
10	0.02984	0.02914	0.00000
11	0.02913	0.02858	0.00000
12	0.02404	0.02371	0.00000
13	0.02160	0.02134	0.00000
14	0.02625	0.02595	0.00000
15	0.03206	0.03174	0.00000
16	0.03363	0.03323	0.00000
17	0.04081	0.03997	0.00000
18	0.03660	0.03605	0.00000
19	0.02988	0.02918	0.00000
20	0.03197	0.03159	0.00000
21	0.02616	0.02591	0.00000
22	0.03103	0.03086	0.00000
23	0.02803	0.02778	0.00000
24	0.03604	0.03554	0.00000
25	0.03462	0.03403	0.00000
26	0.03699	0.03640	0.00000
27	0.03575	0.03508	0.00000
28	0.03629	0.03531	0.00000
29	0.02883	0.02810	0.00000
30	0.03211	0.03109	0.00000
31	0.02553	0.02517	0.00000
32	0.03155	0.03119	0.00000
33	0.02832	0.02800	0.00000
34	0.03522	0.03433	0.00000
35	0.03450	0.03353	0.00000
36	0.03526	0.03469	0.00000
37	0.03512	0.03449	0.00000
38	0.02676	0.02644	0.00000
39	0.03016	0.02995	0.00000
40	0.02581	0.02554	0.00000
41	0.03105	0.03075	0.00000
42	0.02637	0.02611	0.00000
43	0.03399	0.03339	0.00000
44	0.03422	0.03323	0.00000
45	0.03338	0.03295	0.00000
46	0.03092	0.03066	0.00000
47	0.02200	0.02194	0.00000
48	0.00000	0.00000	0.00000
49	0.02389	0.02370	0.00000
50	0.03031	0.03002	0.00000
51	0.02791	0.02758	0.00000
52	0.03871	0.03723	0.00000

53	0.03505	0.03384	0.00000
54	0.03264	0.03223	0.00000
55	0.03110	0.03077	0.00000
56	0.02587	0.02568	0.00000
57	0.02961	0.02949	0.00000
58	0.02544	0.02522	0.00000
59	0.03126	0.03080	0.00000
60	0.02831	0.02792	0.00000
61	0.03454	0.03391	0.00000
62	0.03384	0.03289	0.00000
63	0.03286	0.03249	0.00000
64	0.03384	0.03350	0.00000
65	0.02750	0.02726	0.00000
66	0.03089	0.03068	0.00000
67	0.02625	0.02604	0.00000
68	0.04126	0.04099	0.00000
69	0.02917	0.02879	0.00000
70	0.03432	0.03375	0.00000
71	0.03277	0.03205	0.00000
72	0.03278	0.03234	0.00000
73	0.03395	0.03358	0.00000
74	0.02810	0.02787	0.00000
75	0.03352	0.03328	0.00000
76	0.02731	0.02709	0.00000
77	0.03268	0.03239	0.00000
78	0.03477	0.03444	0.00000
79	0.03364	0.03323	0.00000
80	0.03144	0.03080	0.00000
81	0.03215	0.03164	0.00000
82	0.03377	0.03306	0.00000
83	0.02727	0.02700	0.00000
84	0.03084	0.03053	0.00000
85	0.02626	0.02607	0.00000
86	0.03272	0.03249	0.00000
87	0.02676	0.02646	0.00000
88	0.03224	0.03127	0.00000
89	0.02913	0.02836	0.00000
90	0.03005	0.02962	0.00000
91	0.03211	0.03178	0.00000
92	0.02592	0.02572	0.00000
93	0.02969	0.02955	0.00000
94	0.02464	0.02466	0.00000
95	0.02872	0.02880	0.00000
96	0.02398	0.02381	0.00000
97	0.02827	0.02806	0.00000
98	0.02353	0.02318	0.00000
99	0.02719	0.02682	0.00000
100	0.02988	0.02969	0.00000
101	0.02380	0.02366	0.00000
102	0.02825	0.02816	0.00000
103	0.02351	0.02333	0.00000
104	0.03112	0.03043	0.00000
105	0.02287	0.02245	0.00000
106	0.02733	0.02687	0.00000
107	0.02223	0.02205	0.00000
108	0.02060	0.02050	0.00000
109	0.02611	0.02592	0.00000

110	0.01988	0.01969	0.00000
111	0.02584	0.02550	0.00000
112	0.02038	0.01997	0.00000
113	0.02925	0.02915	0.00000
114	0.02013	0.02000	0.00000
115	0.02744	0.02714	0.00000
116	0.02522	0.02497	0.00000
117	0.00000	0.00000	0.00000
118	0.00000	0.00000	0.00000
119	0.00000	0.00000	0.00000
120	0.00000	0.00000	0.00000
121	0.00000	0.00000	0.00000
122	0.00000	0.00000	0.00000
123	0.00000	0.00000	0.00000
124	0.00000	0.00000	0.00000
125	0.03422	0.03406	0.00000
126	0.02974	0.02949	0.00000
127	0.03454	0.03443	0.00000
128	0.03477	0.03441	0.00000
129	0.03331	0.03299	0.00000
130	0.02921	0.02892	0.00000
200	0.02079	0.02078	0.00000
201	0.02633	0.02487	0.00000
202	0.02890	0.02836	0.00000
203	0.02021	0.02008	0.00000
204	0.02429	0.02467	0.00000
205	0.02769	0.02786	0.00000
207	0.03148	0.03045	0.00000
208	0.03366	0.03332	0.00000
212	0.00000	0.00000	0.00000
214	0.04151	0.04101	0.00000
300	0.02185	0.02179	0.00000
301	0.02831	0.02788	0.00000
302	0.02910	0.02918	0.00000
303	0.00000	0.00000	0.00000
304	0.03291	0.03278	0.00000
305	0.03873	0.03890	0.06611
306	0.03349	0.03329	0.00000
307	0.03610	0.03531	0.00000
308	0.02323	0.02318	0.00000
309	0.03716	0.03667	0.00000
310	0.03888	0.03840	0.00000
A4002	0.03302	0.03244	0.02376
A4061	0.02608	0.02407	0.03322
A4581	0.03809	0.03746	0.00000

Station Coordinate Error Ellipses (US Feet)
Confidence Region = 95%

Station	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Elev
1	0.07613	0.07462	162-48	0.00000
2	0.05514	0.05373	162-00	0.00000
3	0.06314	0.06112	171-58	0.00000
4	0.07991	0.07846	165-55	0.00000
5	0.07043	0.06901	162-23	0.00000
7	0.06959	0.06848	178-13	0.00000
8	0.07805	0.07704	177-07	0.00000
9	0.09560	0.09180	174-36	0.00000
10	0.07302	0.07129	177-40	0.00000
11	0.07132	0.06990	169-36	0.00000
12	0.05885	0.05800	172-22	0.00000
13	0.05286	0.05221	3-40	0.00000
14	0.06424	0.06349	1-59	0.00000
15	0.07846	0.07765	174-12	0.00000
16	0.08230	0.08131	3-31	0.00000
17	0.09987	0.09781	1-12	0.00000
18	0.08961	0.08816	169-00	0.00000
19	0.07315	0.07137	172-17	0.00000
20	0.07824	0.07729	176-39	0.00000
21	0.06403	0.06339	173-05	0.00000
22	0.07595	0.07549	165-49	0.00000
23	0.06860	0.06797	169-11	0.00000
24	0.08820	0.08697	0-21	0.00000
25	0.08472	0.08326	2-14	0.00000
26	0.09054	0.08905	173-47	0.00000
27	0.08749	0.08582	174-30	0.00000
28	0.08881	0.08640	176-41	0.00000
29	0.07058	0.06873	171-51	0.00000
30	0.07871	0.07594	166-43	0.00000
31	0.06250	0.06157	170-16	0.00000
32	0.07722	0.07630	171-13	0.00000
33	0.06931	0.06850	174-34	0.00000
34	0.08618	0.08399	176-08	0.00000
35	0.08442	0.08204	178-13	0.00000
36	0.08628	0.08488	176-30	0.00000
37	0.08594	0.08437	5-14	0.00000
38	0.06548	0.06469	1-56	0.00000
39	0.07379	0.07330	177-32	0.00000
40	0.06319	0.06245	166-12	0.00000
41	0.07607	0.07518	162-37	0.00000
42	0.06453	0.06389	176-35	0.00000
43	0.08318	0.08171	178-34	0.00000
44	0.08373	0.08131	178-25	0.00000
45	0.08171	0.08060	172-30	0.00000
46	0.07580	0.07490	157-09	0.00000
47	0.05385	0.05366	17-05	0.00000
48	0.00000	0.00000	0-00	0.00000
49	0.05847	0.05798	0-11	0.00000
50	0.07419	0.07343	9-09	0.00000
51	0.06831	0.06748	1-01	0.00000
52	0.09474	0.09107	4-34	0.00000
53	0.08577	0.08280	176-58	0.00000

54	0.07988	0.07884	174-00	0.00000
55	0.07611	0.07528	176-28	0.00000
56	0.06335	0.06279	162-49	0.00000
57	0.07247	0.07216	171-52	0.00000
58	0.06226	0.06170	175-14	0.00000
59	0.07652	0.07534	170-12	0.00000
60	0.06930	0.06831	173-09	0.00000
61	0.08457	0.08293	169-33	0.00000
62	0.08282	0.08047	176-23	0.00000
63	0.08042	0.07950	178-39	0.00000
64	0.08281	0.08197	0-49	0.00000
65	0.06731	0.06668	172-21	0.00000
66	0.07561	0.07503	166-20	0.00000
67	0.06425	0.06370	171-43	0.00000
68	0.10103	0.10025	15-21	0.00000
69	0.07139	0.07044	177-35	0.00000
70	0.08398	0.08257	176-43	0.00000
71	0.08019	0.07843	178-17	0.00000
72	0.08022	0.07915	178-17	0.00000
73	0.08308	0.08216	177-18	0.00000
74	0.06877	0.06818	173-08	0.00000
75	0.08203	0.08145	2-41	0.00000
76	0.06683	0.06629	176-56	0.00000
77	0.08002	0.07922	13-07	0.00000
78	0.08508	0.08428	176-50	0.00000
79	0.08240	0.08125	165-38	0.00000
80	0.07695	0.07535	174-36	0.00000
81	0.07871	0.07739	170-25	0.00000
82	0.08278	0.08077	164-53	0.00000
83	0.06677	0.06604	168-18	0.00000
84	0.07551	0.07467	165-58	0.00000
85	0.06426	0.06378	171-36	0.00000
86	0.08007	0.07950	174-12	0.00000
87	0.06547	0.06476	0-46	0.00000
88	0.07889	0.07651	177-54	0.00000
89	0.07129	0.06940	175-54	0.00000
90	0.07353	0.07247	177-08	0.00000
91	0.07857	0.07777	179-12	0.00000
92	0.06343	0.06293	173-24	0.00000
93	0.07269	0.07226	161-30	0.00000
94	0.06040	0.06025	127-21	0.00000
95	0.07048	0.07028	89-51	0.00000
96	0.05867	0.05826	1-21	0.00000
97	0.06918	0.06864	171-48	0.00000
98	0.05759	0.05672	2-04	0.00000
99	0.06654	0.06564	179-23	0.00000
100	0.07319	0.07258	158-43	0.00000
101	0.05824	0.05787	167-28	0.00000
102	0.06914	0.06889	10-49	0.00000
103	0.05753	0.05708	177-33	0.00000
104	0.07618	0.07445	6-37	0.00000
105	0.05596	0.05493	1-28	0.00000
106	0.06688	0.06574	173-18	0.00000
107	0.05442	0.05394	169-33	0.00000
108	0.05042	0.05014	12-11	0.00000
109	0.06388	0.06342	176-41	0.00000
110	0.04864	0.04819	179-23	0.00000

111	0.06324	0.06238	175-36	0.00000
112	0.04987	0.04885	175-19	0.00000
113	0.07199	0.07094	38-13	0.00000
114	0.04927	0.04894	11-20	0.00000
115	0.06717	0.06639	167-53	0.00000
116	0.06175	0.06107	165-45	0.00000
117	0.00000	0.00000	0-00	0.00000
118	0.00000	0.00000	0-00	0.00000
119	0.00000	0.00000	0-00	0.00000
120	0.00000	0.00000	0-00	0.00000
121	0.00000	0.00000	0-00	0.00000
122	0.00000	0.00000	0-00	0.00000
123	0.00000	0.00000	0-00	0.00000
124	0.00000	0.00000	0-00	0.00000
125	0.08373	0.08335	3-36	0.00000
126	0.07276	0.07216	1-11	0.00000
127	0.08465	0.08411	29-02	0.00000
128	0.08509	0.08419	173-41	0.00000
129	0.08153	0.08070	7-39	0.00000
130	0.07148	0.07075	176-37	0.00000
200	0.05099	0.05073	41-41	0.00000
201	0.06456	0.06072	169-20	0.00000
202	0.07130	0.06881	151-18	0.00000
203	0.04949	0.04909	18-43	0.00000
204	0.06038	0.05945	88-51	0.00000
205	0.06819	0.06773	75-16	0.00000
207	0.07707	0.07446	8-02	0.00000
208	0.08240	0.08150	10-05	0.00000
212	0.00000	0.00000	0-00	0.00000
214	0.10162	0.10032	10-01	0.00000
300	0.05360	0.05319	145-50	0.00000
301	0.06942	0.06807	161-04	0.00000
302	0.07178	0.07082	50-38	0.00000
303	0.00000	0.00000	0-00	0.00000
304	0.08053	0.08019	11-18	0.00000
305	0.09552	0.09445	56-02	0.12957
306	0.08196	0.08147	3-53	0.00000
307	0.08834	0.08639	0-41	0.00000
308	0.05687	0.05669	18-18	0.00000
309	0.09098	0.08968	169-57	0.00000
310	0.09516	0.09395	173-44	0.00000
A4002	0.08088	0.07930	166-07	0.04657
A4061	0.06383	0.05889	177-25	0.06510
A4581	0.09322	0.09167	2-38	0.00000

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