

129.7500	16.0000	16.0000	16.2452	15.8094	0.2452	-0.1906	0.3105	0	0	0	7	0	0
131.8430	16.0000	16.0000	16.0570	15.7754	0.0570	-0.2246	0.2317	0	0	0	6	0	0
134.0470	16.0000	16.0000	16.2936	15.8651	0.2936	-0.1349	0.3231	0	0	0	6	0	0
136.2500	16.0000	16.0000	16.1539	16.0138	0.1539	0.0138	0.1545	0	0	0	0	0	0
138.4370	16.0000	16.0000	15.9576	15.8935	-0.0424	-0.1065	0.1146	0	0	0	0	0	0
140.7180	16.0000	16.0000	16.0237	15.9021	0.0237	-0.0979	0.1007	0	0	0	0	0	0
143.0930	16.0000	16.0000	15.4250	15.9881	-0.5750	-0.0119	0.5751	10	0	0	0	0	0
145.3590	16.0000	16.0000	16.1162	16.0122	0.1162	0.0122	0.1168	0	0	0	0	0	0
147.6870	16.0000	16.0000	16.3101	15.8321	0.3101	-0.1679	0.3527	0	0	0	0	0	0
149.7970	16.0000	16.0000	15.7268	16.0486	-0.2732	0.0486	0.2775	0	0	0	0	0	0
152.0930	16.0000	16.0000	15.5396	15.8023	-0.4604	-0.1977	0.5010	9	0	0	0	0	0
154.2340	16.0000	16.0000	16.2579	16.0108	0.2579	0.0108	0.2582	0	0	0	0	0	0
156.6720	16.0000	16.0000	16.4231	16.0182	0.4231	0.0182	0.4235	0	7	0	0	0	0
158.9530	16.0000	16.0000	16.1156	15.8087	0.1156	-0.1913	0.2235	0	0	0	6	0	0
160.9840	16.0000	16.0000	15.4782	15.6335	-0.5218	-0.3665	0.6376	11	0	0	0	0	0
163.2810	16.0000	16.0000	16.1231	15.9401	0.1231	-0.0599	0.1369	0	0	0	0	0	0
165.4680	16.0000	16.0000	16.5604	15.9140	0.5604	-0.0860	0.5670	0	8	0	0	0	0
167.8750	16.0000	16.0000	16.1090	16.0173	0.1090	0.0173	0.1103	0	0	0	0	0	0
170.2180	16.0000	16.0000	15.7902	15.8723	-0.2098	-0.1277	0.2456	0	0	0	0	0	0
172.3590	16.0000	16.0000	16.2312	16.0244	0.2312	0.0244	0.2325	0	0	0	0	0	0
174.5150	16.0000	16.0000	16.2407	16.0003	0.2407	0.0003	0.2407	0	0	0	0	0	0
176.8900	16.0000	16.0000	16.0425	15.8456	0.0425	-0.1544	0.1601	0	0	0	0	0	0
178.6400	16.0000	16.0000	16.1016	15.7855	0.1016	-0.2145	0.2374	0	0	0	6	0	0
180.8280	16.0000	16.0000	16.1384	15.8610	0.1384	-0.1390	0.1961	0	0	0	0	0	0
183.2650	16.0000	16.0000	16.4115	15.9260	0.4115	-0.0740	0.4181	0	6	0	0	0	0
185.8430	16.0000	16.0000	16.4364	15.8095	0.4364	-0.1905	0.4762	0	6	0	8	0	0
187.8280	16.0000	16.0000	16.0654	15.8530	0.0654	-0.1470	0.1609	0	0	0	0	0	0
190.1870	16.0000	16.0000	16.1113	15.7862	0.1113	-0.2138	0.2410	0	0	0	7	0	0
192.3280	16.0000	16.0000	16.0100	16.0049	0.0100	0.0049	0.0112	0	0	0	0	0	0
194.3900	16.0000	16.0000	16.0469	16.2082	0.0469	0.2082	0.2134	0	0	0	0	0	0
196.7340	16.0000	16.0000	16.1904	15.8048	0.1904	-0.1952	0.2727	0	0	0	7	0	0
199.0470	16.0000	16.0000	15.7794	16.1020	-0.2206	0.1020	0.2430	0	0	0	0	0	0
201.3750	16.0000	16.0000	15.6074	15.9190	-0.3926	-0.0810	0.4009	7	0	0	0	0	0
203.6250	16.0000	16.0000	16.1756	16.1384	0.1756	0.1384	0.2236	0	0	0	0	0	0
205.7810	16.0000	16.0000	16.2565	15.9664	0.2565	-0.0336	0.2587	0	0	0	0	0	0
208.0930	16.0000	16.0000	15.8783	15.9222	-0.1217	-0.0778	0.1444	0	0	0	0	0	0
210.3750	16.0000	16.0000	15.6126	15.4610	-0.3874	-0.5390	0.6638	9	0	0	0	0	0
212.4530	16.0000	16.0000	16.1843	16.1563	0.1843	0.1563	0.2416	0	0	0	21	0	0
214.7500	16.0000	16.0000	16.4810	15.9629	0.4810	-0.0371	0.4824	0	8	0	0	0	0
217.1400	16.0000	16.0000	15.6822	15.6813	-0.3178	-0.3187	0.4501	7	0	0	6	0	0
219.1400	16.0000	16.0000	16.0694	15.9493	0.0694	-0.0507	0.0860	0	0	0	0	0	0
221.6870	16.0000	16.0000	16.3283	16.2414	0.3283	0.2414	0.4075	0	7	0	0	0	0
224.0470	16.0000	16.0000	16.2894	16.0197	0.2894	0.0197	0.2900	0	0	0	0	0	0
226.5620	16.0000	16.0000	16.0187	15.7895	0.0187	-0.2105	0.2113	0	0	0	0	0	0
228.9220	16.0000	16.0000	16.1614	15.9053	0.1614	-0.0947	0.1872	0	0	0	0	0	0
231.2340	16.0000	16.0000	16.1597	16.0487	0.1597	0.0487	0.1669	0	0	0	0	0	0
233.6400	16.0000	16.0000	16.1571	15.7231	0.1571	-0.2769	0.3184	0	0	0	8	0	0
236.0000	16.0000	16.0000	16.0469	15.9774	0.0469	-0.0226	0.0521	0	0	0	0	0	0
238.1560	16.0000	16.0000	15.8835	15.9429	-0.1165	-0.0571	0.1297	0	0	0	0	0	0
240.4840	16.0000	16.0000	16.1583	15.8917	0.1583	-0.1083	0.1918	0	0	0	0	0	0
242.5780	16.0000	16.0000	16.1563	15.8386	0.1563	-0.1614	0.2247	0	0	0	0	0	0
244.4530	16.0000	16.0000	16.2244	15.9076	0.2244	-0.0924	0.2427	0	0	0	0	0	0
246.2650	16.0000	16.0000	15.4582	15.6899	-0.5418	-0.3101	0.6242	11	0	0	0	0	0
248.0150	16.0000	16.0000	15.9035	15.8409	-0.0965	-0.1591	0.1860	0	0	0	0	0	0
250.3280	16.0000	16.0000	16.1544	15.7105	0.1544	-0.2895	0.3281	0	0	0	9	0	0
252.0470	16.0000	16.0000	16.1829	15.9708	0.1829	-0.0292	0.1852	0	0	0	0	0	0
253.8430	16.0000	16.0000	15.9609	16.0746	-0.0391	0.0746	0.0843	0	0	0	0	0	0
255.7180	16.0000	16.0000	15.5172	15.8097	-0.4828	-0.1903	0.5189	9	0	0	0	0	0
257.4840	16.0000	16.0000	15.6011	15.9463	-0.3989	-0.0537	0.4026	7	0	0	0	0	0
259.2500	16.0000	16.0000	16.2531	15.8007	0.2531	-0.1993	0.3222	0	0	0	8	0	0
261.0780	16.0000	16.0000	16.3972	16.1484	0.3972	0.1484	0.4240	0	8	0	0	0	0
262.9370	16.0000	16.0000	16.0136	16.0580	0.0136	0.0580	0.0596	0	0	0	0	0	0
264.8590	16.0000	16.0000	15.6280	15.9139	-0.3720	-0.0861	0.3819	7	0	0	0	0	0
266.4530	16.0000	16.0000	16.0543	15.7633	0.0543	-0.2367	0.2428	0	0	0	7	0	0
268.4530	16.0000	16.0000	16.1843	16.2971	0.1843	0.2971	0.3496	0	0	0	0	0	0
270.4220	16.0000	16.0000	16.4116	16.2099	0.4116	0.2099	0.4620	0	8	0	0	0	0
272.2970	16.0000	16.0000	15.9317	16.0578	-0.0683	0.0578	0.0895	0	0	0	0	0	0
273.9370	16.0000	16.0000	15.6572	15.9910	-0.3428	-0.0090	0.3430	6	0	0	0	0	0
275.7340	16.0000	16.0000	15.9918	15.8438	-0.0082	-0.1562	0.1564	0	0	0	0	0	0
277.5620	16.0000	16.0000	16.0726	15.9483	0.0726	-0.0517	0.0892	0	0	0	0	0	0
279.4220	16.0000	16.0000	16.0681	15.9773	0.0681	-0.0227	0.0717	0	0	0	0	0	0
281.6250	16.0000	16.0000	16.3612	15.9934	0.3612	-0.0066	0.3613	0	6	0	0	0	0
283.3430	16.0000	16.0000	16.0533	15.8198	0.0533	-0.1802	0.1879	0	0	0	0	0	0
285.0930	16.0000	16.0000	16.0923	15.7762	0.0923	-0.2238	0.2421	0	0	0	7	0	0
286.8590	16.0000	16.0000	15.5828	15.9084	-0.4172	-0.0916	0.4272	8	0	0	0	0	0
288.8750	16.0000	16.0000	16.0995	16.0307	0.0995	0.0307	0.1042	0	0	0	0	0	0
290.6560	16.0000	16.0000	16.4687	15.9609	0.4687	-0.0391	0.4704	0	8	0	0	0	0
292.2970	16.0000	16.0000	16.0152	15.8976	0.0152	-0.1024	0.1035	0	0	0	0	0	0
294.4370	16.0000	16.0000	15.4321	15.4164	-0.5679	-0.5836	0.8143	13	0	0	11	0	0
296.2030	16.0000	16.0000	15.2764	15.9388	-0.7236	-0.0612	0.7262	12	0	0	0	0	0
298.0150	16.0000	16.0000	16.1770	16.1557	0.1770	0.1557	0.2357	0	0	0	0	0	0
299.9680	16.0000	16.0000	16.1392	16.0081	0.1392	0.0081	0.1395	0	0	0	0	0	0
301.9840	16.0000	16.0000	16.0839	15.9388	0.0839	-0.0612	0.1039	0	0	0	0	0	0
303.7180	16.0000	16.0000	15.5337	15.7468	-0.4663	-0.2532	0.5306	9	0	0	0	0	0

	305.5000	16.0000	16.0000	16.2146	15.9517	0.2146	-0.0483	0.2199	0	0	0	0	0	0
	307.3750	16.0000	16.0000	16.3391	15.9163	0.3391	-0.0837	0.3493	0	0	0	0	0	0
	309.5150	16.0000	16.0000	16.4555	15.9493	0.4555	-0.0507	0.4583	0	7	0	0	0	0
	311.4370	16.0000	16.0000	15.9956	15.7783	-0.0044	-0.2217	0.2217	0	0	0	6	0	0
	313.1720	16.0000	16.0000	16.0245	15.8215	0.0245	-0.1785	0.1802	0	0	0	0	0	0
	314.7180	16.0000	16.0000	15.9891	15.8336	-0.0109	-0.1664	0.1668	0	0	0	0	0	0
	316.3900	16.0000	16.0000	16.2547	15.9335	0.2547	-0.0665	0.2632	0	0	0	0	0	0

 * ml3_red.00001130.M_13.FIT *

CCDSoft Tracking Report
 Start Date Time = 2006-02-28T07:47:29.234
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
	0.0000	16.0000	16.0000	14.2326	15.4731	-1.7674	-0.5269	1.8443	34	0	0	0	0	0	0
	6.6560	16.0000	16.0000	15.5758	15.8508	-0.4242	-0.1492	0.4497	8	0	0	0	0	0	0
	8.2650	16.0000	16.0000	15.9378	15.9458	-0.0622	-0.0542	0.0825	0	0	0	0	0	0	0
	11.6560	16.0000	16.0000	15.8578	15.9158	-0.1422	-0.0842	0.1652	0	0	0	0	0	0	0
	13.7190	16.0000	16.0000	15.9848	15.8416	-0.0152	-0.1584	0.1591	0	0	0	0	0	0	0
	15.4060	16.0000	16.0000	15.9508	15.8299	-0.0492	-0.1701	0.1770	0	0	0	0	0	0	0
	17.3120	16.0000	16.0000	15.9784	15.7339	-0.0216	-0.2661	0.2669	0	0	0	7	0	0	0
	19.3280	16.0000	16.0000	15.5821	15.5484	-0.4179	-0.4516	0.6153	9	0	0	8	0	0	0
	21.4530	16.0000	16.0000	15.3554	15.9428	-0.6446	-0.0572	0.6471	12	0	0	0	0	0	0
	23.1090	16.0000	16.0000	15.9951	16.0232	-0.0049	0.0232	0.0237	0	0	0	0	0	0	0
	25.1870	16.0000	16.0000	16.0866	16.0700	0.0866	0.0700	0.1113	0	0	0	0	0	0	0
	26.9840	16.0000	16.0000	16.0389	15.9626	0.0389	-0.0374	0.0540	0	0	0	0	0	0	0
	28.6870	16.0000	16.0000	15.9432	15.9353	-0.0568	-0.0647	0.0861	0	0	0	0	0	0	0
	30.7030	16.0000	16.0000	15.5292	15.5562	-0.4708	-0.4438	0.6470	11	0	0	8	0	0	0
	32.3590	16.0000	16.0000	16.0058	16.1125	0.0058	0.1125	0.1126	0	0	0	0	0	0	0
	34.2970	16.0000	16.0000	16.2526	16.1969	0.2526	0.1969	0.3203	0	0	0	0	0	0	0
	35.8440	16.0000	16.0000	16.1160	16.1033	0.1160	0.1033	0.1554	0	0	0	0	0	0	0
	37.6400	16.0000	16.0000	16.0681	16.0272	0.0681	0.0272	0.0733	0	0	0	0	0	0	0
	39.6400	16.0000	16.0000	15.9388	15.9513	-0.0612	-0.0487	0.0782	0	0	0	0	0	0	0
	41.7030	16.0000	16.0000	16.1499	16.0597	0.1499	0.0597	0.1614	0	0	0	0	0	0	0
	43.5620	16.0000	16.0000	16.2512	15.9390	0.2512	-0.0610	0.2585	0	0	0	0	0	0	0
	45.7810	16.0000	16.0000	16.1692	15.7856	0.1692	-0.2144	0.2731	0	0	0	7	0	0	0
	47.6400	16.0000	16.0000	15.9197	16.0915	-0.0803	0.0915	0.1218	0	0	0	0	0	0	0
	49.5620	16.0000	16.0000	16.2547	16.0079	0.2547	0.0079	0.2548	0	0	0	0	0	0	0
	51.3280	16.0000	16.0000	16.3802	16.1514	0.3802	0.1514	0.4092	0	7	0	0	0	0	0
	53.1250	16.0000	16.0000	16.0900	15.9584	0.0900	-0.0416	0.0992	0	0	0	0	0	0	0
	55.3280	16.0000	16.0000	15.9568	15.6353	-0.0432	-0.3647	0.3672	0	0	0	9	0	0	0
	57.4220	16.0000	16.0000	15.9746	15.9356	-0.0254	-0.0644	0.0692	0	0	0	0	0	0	0
	59.6870	16.0000	16.0000	15.8578	15.8930	-0.1422	-0.1070	0.1779	0	0	0	0	0	0	0
	62.1720	16.0000	16.0000	16.0432	15.9667	0.0432	-0.0333	0.0546	0	0	0	0	0	0	0
	64.4840	16.0000	16.0000	16.0080	15.9029	0.0080	-0.0971	0.0974	0	0	0	0	0	0	0
	66.9840	16.0000	16.0000	15.8038	15.5742	-0.1962	-0.4258	0.4688	0	0	0	10	0	0	0
	69.6250	16.0000	16.0000	15.0403	15.8211	-0.9597	-0.1789	0.9763	17	0	0	0	0	0	0
	71.7500	16.0000	16.0000	16.0551	16.0183	0.0551	0.0183	0.0581	0	0	0	0	0	0	0
	74.0000	16.0000	16.0000	16.1832	16.1535	0.1832	0.1535	0.2390	0	0	0	0	0	0	0
	76.3900	16.0000	16.0000	16.1120	16.0178	0.1120	0.0178	0.1134	0	0	0	0	0	0	0
	78.6720	16.0000	16.0000	16.1787	15.9873	0.1787	-0.0127	0.1791	0	0	0	0	0	0	0
	80.9220	16.0000	16.0000	16.4432	15.8995	0.4432	-0.1005	0.4544	0	7	0	6	0	0	0
	83.2650	16.0000	16.0000	16.3477	16.1881	0.3477	0.1881	0.3953	0	0	0	0	0	0	0
	85.8120	16.0000	16.0000	16.0850	15.9570	0.0850	-0.0430	0.0953	0	0	0	0	0	0	0
	88.0940	16.0000	16.0000	16.1223	15.8216	0.1223	-0.1784	0.2163	0	0	0	0	0	0	0
	90.2650	16.0000	16.0000	16.3093	16.0272	0.3093	0.0272	0.3105	0	0	0	0	0	0	0
	92.4840	16.0000	16.0000	16.4557	16.0116	0.4557	0.0116	0.4558	0	8	0	0	0	0	0
	95.2340	16.0000	16.0000	16.1012	15.7070	0.1012	-0.2930	0.3100	0	0	0	8	0	0	0
	97.1870	16.0000	16.0000	15.9392	15.8411	-0.0608	-0.1589	0.1701	0	0	0	0	0	0	0
	99.3280	16.0000	16.0000	16.1429	15.8435	0.1429	-0.1565	0.2119	0	0	0	0	0	0	0
	101.5620	16.0000	16.0000	16.2125	15.8856	0.2125	-0.1144	0.2413	0	0	0	0	0	0	0

103.7340	16.0000	16.0000	16.2694	15.6371	0.2694	-0.3629	0.4520	0	0	0	12	0	0
105.3120	16.0000	16.0000	16.0095	16.1753	0.0095	0.1753	0.1756	0	0	0	0	0	0
107.2500	16.0000	16.0000	16.0122	16.0537	0.0122	0.0537	0.0551	0	0	0	0	0	0
108.9690	16.0000	16.0000	16.0504	16.2297	0.0504	0.2297	0.2351	0	0	0	0	0	0
110.9060	16.0000	16.0000	16.2062	16.0908	0.2062	0.0908	0.2253	0	0	0	0	0	0
112.5150	16.0000	16.0000	16.3144	16.0624	0.3144	0.0624	0.3205	0	0	0	0	0	0
114.2190	16.0000	16.0000	16.1827	16.1373	0.1827	0.1373	0.2285	0	0	0	0	0	0
115.7650	16.0000	16.0000	16.1299	15.9895	0.1299	-0.0105	0.1303	0	0	0	0	0	0
117.3750	16.0000	16.0000	16.1219	15.8586	0.1219	-0.1414	0.1867	0	0	0	0	0	0
118.9370	16.0000	16.0000	16.3599	16.0053	0.3599	0.0053	0.3599	0	6	0	0	0	0
120.7340	16.0000	16.0000	16.3245	15.8470	0.3245	-0.1530	0.3588	0	0	0	7	0	0
122.7030	16.0000	16.0000	16.4625	16.1429	0.4625	0.1429	0.4841	0	8	0	0	0	0
124.5000	16.0000	16.0000	15.8605	15.8817	-0.1395	-0.1183	0.1829	0	0	0	0	0	0
126.3280	16.0000	16.0000	15.6402	15.8344	-0.3598	-0.1656	0.3961	7	0	0	0	0	0
128.2190	16.0000	16.0000	16.2457	15.8562	0.2457	-0.1438	0.2847	0	0	0	6	0	0
130.0000	16.0000	16.0000	16.3925	16.2725	0.3925	0.2725	0.4778	0	8	0	0	0	0
131.7190	16.0000	16.0000	16.2146	16.3222	0.2146	0.3222	0.3871	0	0	6	0	0	0
133.2970	16.0000	16.0000	16.2380	16.1530	0.2380	0.1530	0.2829	0	0	0	0	0	0
135.1400	16.0000	16.0000	16.1577	16.0268	0.1577	0.0268	0.1600	0	0	0	0	0	0
136.7810	16.0000	16.0000	16.1651	16.1601	0.1651	0.1601	0.2300	0	0	0	0	0	0
138.5940	16.0000	16.0000	16.4250	16.0840	0.4250	0.0840	0.4332	0	8	0	0	0	0
140.1560	16.0000	16.0000	16.2563	16.0176	0.2563	0.0176	0.2569	0	0	0	0	0	0
141.7500	16.0000	16.0000	16.3023	15.9788	0.3023	-0.0212	0.3030	0	0	0	0	0	0
143.2030	16.0000	16.0000	16.1444	15.8490	0.1444	-0.1510	0.2089	0	0	0	0	0	0
144.9060	16.0000	16.0000	16.2512	15.8698	0.2512	-0.1302	0.2829	0	0	0	0	0	0
146.8440	16.0000	16.0000	16.9433	15.7537	0.9433	-0.2463	0.9749	0	14	0	15	0	0
148.5780	16.0000	16.0000	16.1062	15.7832	0.1062	-0.2168	0.2414	0	0	0	7	0	0
150.1090	16.0000	16.0000	16.1841	16.1654	0.1841	0.1654	0.2475	0	0	0	0	0	0
151.8120	16.0000	16.0000	16.0340	16.0339	0.0340	0.0339	0.0480	0	0	0	0	0	0
153.4690	16.0000	16.0000	15.8980	15.8514	-0.1020	-0.1486	0.1802	0	0	0	0	0	0
155.4060	16.0000	16.0000	15.4039	15.7738	-0.5961	-0.2262	0.6376	12	0	0	0	0	0
156.9840	16.0000	16.0000	16.1334	15.8738	0.1334	-0.1262	0.1837	0	0	0	0	0	0
158.6400	16.0000	16.0000	16.2437	15.9301	0.2437	-0.0699	0.2536	0	0	0	0	0	0
160.4840	16.0000	16.0000	16.3949	15.8051	0.3949	-0.1949	0.4404	0	0	8	0	0	0
162.2810	16.0000	16.0000	16.0746	16.1565	0.0746	0.1565	0.1734	0	0	0	0	0	0
163.9220	16.0000	16.0000	16.0939	16.0301	0.0939	0.0301	0.0986	0	0	0	0	0	0
165.6250	16.0000	16.0000	15.9718	16.0367	-0.0282	0.0367	0.0462	0	0	0	0	0	0
167.4060	16.0000	16.0000	16.1015	15.9452	0.1015	-0.0548	0.1154	0	0	0	0	0	0
169.1560	16.0000	16.0000	16.2983	16.0344	0.2983	0.0344	0.3003	0	0	0	0	0	0
171.0940	16.0000	16.0000	16.1550	15.8124	0.1550	-0.1876	0.2433	0	0	6	0	0	0
172.8900	16.0000	16.0000	15.7285	15.9268	-0.2715	-0.0732	0.2812	0	0	0	0	0	0
174.5940	16.0000	16.0000	15.8503	16.0357	-0.1497	0.0357	0.1539	0	0	0	0	0	0
176.3120	16.0000	16.0000	16.1281	15.8952	0.1281	-0.1048	0.1655	0	0	0	0	0	0
178.1250	16.0000	16.0000	16.3973	15.9051	0.3973	-0.0949	0.4085	0	6	0	6	0	0
179.9690	16.0000	16.0000	16.0581	16.0243	0.0581	0.0243	0.0630	0	0	0	0	0	0
181.7340	16.0000	16.0000	15.7867	16.0076	-0.2133	0.0076	0.2134	0	0	0	0	0	0
183.3750	16.0000	16.0000	15.5632	15.7970	-0.4368	-0.2030	0.4817	8	0	0	0	0	0
185.0620	16.0000	16.0000	16.2919	15.9126	0.2919	-0.0874	0.3047	0	0	0	0	0	0
186.8590	16.0000	16.0000	16.4290	16.1038	0.4290	0.1038	0.4414	0	8	0	0	0	0
188.6560	16.0000	16.0000	16.0449	15.7338	0.0449	-0.2662	0.2699	0	0	0	8	0	0
190.3440	16.0000	16.0000	16.0914	15.9877	0.0914	-0.0123	0.0922	0	0	0	0	0	0
192.0150	16.0000	16.0000	15.4713	15.9114	-0.5287	-0.0886	0.5361	9	0	0	0	0	0
193.7190	16.0000	16.0000	15.9789	16.1362	-0.0211	0.1362	0.1379	0	0	0	0	0	0
195.3440	16.0000	16.0000	16.1643	16.1364	0.1643	0.1364	0.2136	0	0	0	0	0	0
197.0000	16.0000	16.0000	16.1435	16.0073	0.1435	0.0073	0.1436	0	0	0	0	0	0
198.7650	16.0000	16.0000	16.1673	15.8299	0.1673	-0.1701	0.2386	0	0	0	6	0	0
200.5470	16.0000	16.0000	16.0184	15.9461	0.0184	-0.0539	0.0569	0	0	0	0	0	0
202.3440	16.0000	16.0000	16.0417	15.8542	0.0417	-0.1458	0.1516	0	0	0	0	0	0
204.0780	16.0000	16.0000	15.9946	15.8159	-0.0054	-0.1841	0.1841	0	0	0	0	0	0
205.9220	16.0000	16.0000	16.0517	15.7061	0.0517	-0.2939	0.2984	0	0	0	8	0	0
207.5000	16.0000	16.0000	16.0741	15.8742	0.0741	-0.1258	0.1460	0	0	0	0	0	0
209.2190	16.0000	16.0000	15.9178	15.9215	-0.0822	-0.0785	0.1137	0	0	0	0	0	0
210.9690	16.0000	16.0000	15.5063	15.7914	-0.4937	-0.2086	0.5359	9	0	0	0	0	0
212.7340	16.0000	16.0000	15.4322	15.7500	-0.5678	-0.2500	0.6204	11	0	0	0	0	0
214.3750	16.0000	16.0000	16.0790	15.8049	0.0790	-0.1951	0.2104	0	0	0	6	0	0
216.0620	16.0000	16.0000	16.0653	16.0049	0.0653	0.0049	0.0655	0	0	0	0	0	0
217.7190	16.0000	16.0000	16.1250	16.0535	0.1250	0.0535	0.1360	0	0	0	0	0	0
219.3900	16.0000	16.0000	16.0103	15.9074	0.0103	-0.0926	0.0931	0	0	0	0	0	0
221.2810	16.0000	16.0000	15.4056	15.7801	-0.5944	-0.2199	0.6337	12	0	0	0	0	0
223.0470	16.0000	16.0000	16.0786	15.9765	0.0786	-0.0235	0.0821	0	0	0	0	0	0
224.7500	16.0000	16.0000	16.4423	15.9958	0.4423	-0.0042	0.4423	0	7	0	0	0	0
226.4690	16.0000	16.0000	16.1419	15.7640	0.1419	-0.2360	0.2754	0	0	8	0	0	0
228.2500	16.0000	16.0000	15.9968	15.9620	-0.0032	-0.0380	0.0382	0	0	0	0	0	0
229.8900	16.0000	16.0000	15.4801	15.8718	-0.5199	-0.1282	0.5355	9	0	0	0	0	0
231.6250	16.0000	16.0000	16.0499	16.0756	0.0499	0.0756	0.0906	0	0	0	0	0	0
233.3590	16.0000	16.0000	16.1395	16.2223	0.1395	0.2223	0.2624	0	0	0	0	0	0
234.8750	16.0000	16.0000	16.3300	16.0563	0.3300	0.0563	0.3348	0	0	0	0	0	0
236.5620	16.0000	16.0000	16.2609	15.9935	0.2609	-0.0065	0.2610	0	0	0	0	0	0
238.2030	16.0000	16.0000	16.2808	15.8518	0.2808	-0.1482	0.3175	0	0	0	6	0	0
239.7810	16.0000	16.0000	16.0810	16.1772	0.0810	0.1772	0.1948	0	0	0	0	0	0
241.3750	16.0000	16.0000	16.0127	16.0105	0.0127	0.0105	0.0165	0	0	0	0	0	0
243.1090	16.0000	16.0000	16.0325	15.8368	0.0325	-0.1632	0.1664	0	0	0	0	0	0
244.9220	16.0000	16.0000	16.0001	15.8835	0.0001	-0.1165	0.1165	0	0	0	0	0	0
246.5780	16.0000	16.0000	15.8414	15.8174	-0.1586	-0.1826	0.2418	0	0	0	0	0	0

	248.3120	16.0000	16.0000	15.8075	15.6455	-0.1925	-0.3545	0.4034	0	0	0	8	0	0
	250.1870	16.0000	16.0000	15.3655	15.9438	-0.6345	-0.0562	0.6369	11	0	0	0	0	0
	251.9060	16.0000	16.0000	15.3490	16.0018	-0.6510	0.0018	0.6510	11	0	6	0	0	0
	253.5470	16.0000	16.0000	16.0896	16.0674	0.0896	0.0674	0.1121	0	0	0	0	0	0
	255.1870	16.0000	16.0000	16.3066	16.0382	0.3066	0.0382	0.3090	0	0	0	0	0	0
	256.8440	16.0000	16.0000	16.1933	16.0249	0.1933	0.0249	0.1949	0	0	0	0	0	0
	258.4370	16.0000	16.0000	15.9973	15.9316	-0.0027	-0.0684	0.0684	0	0	0	0	0	0
	260.2340	16.0000	16.0000	15.5966	15.6934	-0.4034	-0.3066	0.5067	8	0	0	0	0	0
	262.0150	16.0000	16.0000	16.0050	15.6338	0.0050	-0.3662	0.3663	0	0	0	10	0	0
	263.6560	16.0000	16.0000	16.0915	15.9704	0.0915	-0.0296	0.0962	0	0	0	0	0	0
	265.4370	16.0000	16.0000	16.2334	15.7471	0.2334	-0.2529	0.3441	0	0	0	8	0	0
	267.3120	16.0000	16.0000	15.7579	16.0368	-0.2421	0.0368	0.2449	0	0	0	0	0	0
	269.0780	16.0000	16.0000	15.4216	15.7965	-0.5784	-0.2035	0.6132	11	0	0	0	0	0
	270.7970	16.0000	16.0000	15.9086	15.8778	-0.0914	-0.1222	0.1526	0	0	0	0	0	0
	272.3590	16.0000	16.0000	16.3297	16.0946	0.3297	0.0946	0.3430	0	6	0	0	0	0
	274.1560	16.0000	16.0000	16.0791	15.9906	0.0791	-0.0094	0.0796	0	0	0	0	0	0
	275.8280	16.0000	16.0000	15.8993	15.8450	-0.1007	-0.1550	0.1848	0	0	0	0	0	0
	277.6720	16.0000	16.0000	15.5753	15.6443	-0.4247	-0.3557	0.5540	9	0	0	6	0	0
	279.3440	16.0000	16.0000	15.9246	16.0807	-0.0754	0.0807	0.1105	0	0	0	0	0	0
	280.9370	16.0000	16.0000	16.2239	16.0231	0.2239	0.0231	0.2251	0	0	0	0	0	0
	282.7030	16.0000	16.0000	16.1771	16.1437	0.1771	0.1437	0.2281	0	0	0	0	0	0
	284.3280	16.0000	16.0000	16.0336	16.0794	0.0336	0.0794	0.0862	0	0	0	0	0	0
	285.9690	16.0000	16.0000	16.0138	16.0176	0.0138	0.0176	0.0224	0	0	0	0	0	0
	287.5310	16.0000	16.0000	15.8024	15.9069	-0.1976	-0.0931	0.2184	0	0	0	0	0	0
	289.1400	16.0000	16.0000	15.8591	16.0201	-0.1409	0.0201	0.1424	0	0	0	0	0	0
	291.0470	16.0000	16.0000	15.9679	15.8056	-0.0321	-0.1944	0.1971	0	0	0	0	0	0
	292.8120	16.0000	16.0000	15.8755	15.8371	-0.1245	-0.1629	0.2050	0	0	0	0	0	0
	294.5310	16.0000	16.0000	15.7941	15.7360	-0.2059	-0.2640	0.3348	0	0	0	0	0	0
	296.3750	16.0000	16.0000	15.4516	15.5005	-0.5484	-0.4995	0.7418	12	0	0	8	0	0
	298.0150	16.0000	16.0000	15.8103	15.9785	-0.1897	-0.0215	0.1909	0	0	0	0	0	0
	299.6400	16.0000	16.0000	15.8654	15.6833	-0.1346	-0.3167	0.3441	0	0	0	7	0	0
	301.3280	16.0000	16.0000	15.9449	16.0437	-0.0551	0.0437	0.0703	0	0	0	0	0	0
	303.1870	16.0000	16.0000	16.0609	16.1889	0.0609	0.1889	0.1985	0	0	0	0	0	0
	304.7970	16.0000	16.0000	15.8557	15.8382	-0.1443	-0.1618	0.2168	0	0	0	0	0	0
	306.5780	16.0000	16.0000	15.4043	15.6319	-0.5957	-0.3681	0.7003	12	0	0	0	0	0
	308.4840	16.0000	16.0000	15.4706	15.5327	-0.5294	-0.4673	0.7062	12	0	0	8	0	0

 * m13_red.00001131.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T07:52:44.421
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	15.5233	13.9478	-0.4767	-2.0522	2.1069	20	0	0	50	0
	6.7820	16.0000	16.0000	15.8564	16.2588	-0.1436	0.2588	0.2960	0	0	8	0	0
	10.3130	16.0000	16.0000	15.5332	16.1800	-0.4668	0.1800	0.5003	7	0	0	8	0
	12.1250	16.0000	16.0000	15.8956	16.2012	-0.1044	0.2012	0.2267	0	0	0	0	0
	14.0940	16.0000	16.0000	16.1155	16.2822	0.1155	0.2822	0.3049	0	0	6	0	0
	15.8130	16.0000	16.0000	16.3485	16.2921	0.3485	0.2921	0.4547	0	8	0	0	0
	17.4850	16.0000	16.0000	16.2325	15.9611	0.2325	-0.0389	0.2357	0	0	0	0	0
	19.5470	16.0000	16.0000	15.9497	15.9101	-0.0503	-0.0899	0.1031	0	0	0	0	0
	21.9220	16.0000	16.0000	15.8718	15.8304	-0.1282	-0.1696	0.2126	0	0	0	0	0
	23.5790	16.0000	16.0000	15.9479	15.8781	-0.0521	-0.1219	0.1325	0	0	0	0	0
	24.8750	16.0000	16.0000	16.1514	15.8618	0.1514	-0.1382	0.2050	0	0	0	0	0
	26.8910	16.0000	16.0000	16.2197	15.7265	0.2197	-0.2735	0.3508	0	0	0	9	0
	29.1720	16.0000	16.0000	16.2205	15.7395	0.2205	-0.2605	0.3413	0	0	0	8	0
	31.7500	16.0000	16.0000	16.0040	15.4803	0.0040	-0.5197	0.5198	0	0	0	14	0
	34.4070	16.0000	16.0000	15.9117	15.5119	-0.0883	-0.4881	0.4960	0	0	0	12	0
	36.6880	16.0000	16.0000	15.8350	15.8103	-0.1650	-0.1897	0.2514	0	0	0	0	0
	39.0470	16.0000	16.0000	15.4568	15.8624	-0.5432	-0.1376	0.5604	10	0	0	0	0
	41.3440	16.0000	16.0000	15.8805	15.9333	-0.1195	-0.0667	0.1369	0	0	0	0	0

42.7820	16.0000	16.0000	15.5750	16.0331	-0.4250	0.0331	0.4263	7	0	0	0	0	0
44.7040	16.0000	16.0000	16.1891	16.0323	0.1891	0.0323	0.1918	0	0	0	0	0	0
47.0470	16.0000	16.0000	16.3958	16.0775	0.3958	0.0775	0.4033	0	7	0	0	0	0
49.5630	16.0000	16.0000	15.2864	15.5716	-0.7136	-0.4284	0.8323	15	0	0	0	0	0
51.8750	16.0000	16.0000	16.0817	15.8348	0.0817	-0.1652	0.1843	0	0	0	0	0	0
54.1570	16.0000	16.0000	16.3128	15.8410	0.3128	-0.1590	0.3509	0	0	0	7	0	0
56.2350	16.0000	16.0000	16.1911	16.1066	0.1911	0.1066	0.2188	0	0	0	0	0	0
58.5160	16.0000	16.0000	16.0400	15.9067	0.0400	-0.0933	0.1015	0	0	0	0	0	0
60.7820	16.0000	16.0000	16.1091	15.8496	0.1091	-0.1504	0.1858	0	0	0	0	0	0
63.0000	16.0000	16.0000	16.4271	15.8788	0.4271	-0.1212	0.4439	0	6	0	0	7	0
65.2190	16.0000	16.0000	16.3058	16.1697	0.3058	0.1697	0.3498	0	6	0	0	0	0
67.6410	16.0000	16.0000	15.6388	15.8302	-0.3612	-0.1698	0.3991	7	0	0	0	0	0
69.9540	16.0000	16.0000	16.3465	16.0466	0.3465	0.0466	0.3497	0	6	0	0	0	0
72.3130	16.0000	16.0000	16.0333	15.9121	0.0333	-0.0879	0.0940	0	0	0	0	0	0
74.3600	16.0000	16.0000	16.0892	15.9333	0.0892	-0.0667	0.1113	0	0	0	0	0	0
76.8130	16.0000	16.0000	16.0172	15.6871	0.0172	-0.3129	0.3133	0	0	0	8	0	0
79.0470	16.0000	16.0000	15.5721	16.1315	-0.4279	0.1315	0.4476	7	0	0	7	0	0
81.2500	16.0000	16.0000	16.2198	16.1690	0.2198	0.1690	0.2773	0	0	0	0	0	0
83.4220	16.0000	16.0000	16.3660	15.9723	0.3660	-0.0277	0.3671	0	6	0	0	0	0
85.5470	16.0000	16.0000	15.9728	16.0778	-0.0272	0.0778	0.0824	0	0	0	0	0	0
87.8130	16.0000	16.0000	15.6318	15.5575	-0.3682	-0.4425	0.5756	8	0	0	8	0	0
89.9070	16.0000	16.0000	16.0438	15.4868	0.0438	-0.5132	0.5150	0	0	0	14	0	0
92.0160	16.0000	16.0000	16.0286	16.2357	0.0286	0.2357	0.2374	0	0	0	0	0	0
94.3130	16.0000	16.0000	16.4060	16.2087	0.4060	0.2087	0.4565	0	8	0	0	0	0
96.8290	16.0000	16.0000	15.2445	15.9183	-0.7555	-0.0817	0.7599	13	0	0	0	0	0
98.7660	16.0000	16.0000	15.7409	16.1697	-0.2591	0.1697	0.3097	0	0	6	0	0	0
100.9540	16.0000	16.0000	16.3673	16.2863	0.3673	0.2863	0.4657	0	8	0	0	0	0
103.0160	16.0000	16.0000	16.0298	16.1345	0.0298	0.1345	0.1378	0	0	0	0	0	0
105.3440	16.0000	16.0000	15.9267	16.0732	-0.0733	0.0732	0.1036	0	0	0	0	0	0
107.4070	16.0000	16.0000	15.9979	16.0636	-0.0021	0.0636	0.0636	0	0	0	0	0	0
109.6100	16.0000	16.0000	16.2823	15.9512	0.2823	-0.0488	0.2865	0	0	0	0	0	0
111.7970	16.0000	16.0000	16.4004	15.8554	0.4004	-0.1446	0.4257	0	0	0	7	0	0
114.1250	16.0000	16.0000	16.8298	16.0191	0.8298	0.0191	0.8300	0	14	0	0	0	0
116.3290	16.0000	16.0000	15.4874	15.9284	-0.5126	-0.0716	0.5176	9	0	0	0	0	0
118.3290	16.0000	16.0000	16.2956	16.0546	0.2956	0.0546	0.3006	0	0	0	0	0	0
120.5160	16.0000	16.0000	16.5069	16.1043	0.5069	0.1043	0.5175	0	9	0	0	0	0
122.4850	16.0000	16.0000	16.1708	16.0231	0.1708	0.0231	0.1723	0	0	0	0	0	0
124.7040	16.0000	16.0000	16.1054	15.9381	0.1054	-0.0619	0.1222	0	0	0	0	0	0
126.7350	16.0000	16.0000	16.2204	15.9343	0.2204	-0.0657	0.2300	0	0	0	0	0	0
128.9220	16.0000	16.0000	15.9733	15.8273	-0.0267	-0.1727	0.1747	0	0	0	0	0	0
131.2500	16.0000	16.0000	16.4129	15.7447	0.4129	-0.2553	0.4855	0	0	0	10	0	0
133.6250	16.0000	16.0000	16.4527	16.2886	0.4527	0.2886	0.5369	0	9	0	0	0	0
135.9380	16.0000	16.0000	15.8888	16.0024	-0.1112	0.0024	0.1112	0	0	0	0	0	0
138.0940	16.0000	16.0000	15.8989	15.9130	-0.1011	-0.0870	0.1334	0	0	0	0	0	0
140.2820	16.0000	16.0000	16.1022	16.0304	0.1022	0.0304	0.1066	0	0	0	0	0	0
142.4850	16.0000	16.0000	16.3798	16.1955	0.3798	0.1955	0.4272	0	8	0	0	0	0
144.8600	16.0000	16.0000	15.7389	15.5223	-0.2611	-0.4777	0.5444	7	0	0	11	0	0
147.2350	16.0000	16.0000	15.4744	16.1639	-0.5256	0.1639	0.5505	8	0	0	0	0	0
149.4540	16.0000	16.0000	16.4316	16.4038	0.4316	0.4038	0.5911	0	9	0	8	0	0
151.7190	16.0000	16.0000	16.3782	16.0283	0.3782	0.0283	0.3792	0	6	0	0	0	0
154.0000	16.0000	16.0000	15.9270	15.9285	-0.0730	-0.0715	0.1021	0	0	0	0	0	0
156.2040	16.0000	16.0000	16.1541	15.7612	0.1541	-0.2388	0.2842	0	0	0	8	0	0
158.4540	16.0000	16.0000	16.5183	16.0397	0.5183	0.0397	0.5198	0	8	0	0	0	0
160.7040	16.0000	16.0000	16.2237	15.8260	0.2237	-0.1740	0.2834	0	0	0	8	0	0
162.7660	16.0000	16.0000	16.1553	15.7482	0.1553	-0.2518	0.2958	0	0	0	6	0	0
164.9850	16.0000	16.0000	16.0331	16.0531	0.0331	0.0531	0.0626	0	0	0	0	0	0
167.3600	16.0000	16.0000	16.1264	15.9876	0.1264	-0.0124	0.1270	0	0	0	0	0	0
169.4690	16.0000	16.0000	16.1067	15.9324	0.1067	-0.0676	0.1263	0	0	0	0	0	0
171.7820	16.0000	16.0000	16.0832	16.0863	0.0832	0.0863	0.1199	0	0	0	0	0	0
174.0320	16.0000	16.0000	15.8405	16.0733	-0.1595	0.0733	0.1755	0	0	0	0	0	0
176.4070	16.0000	16.0000	16.0194	15.7625	0.0194	-0.2375	0.2383	0	0	0	6	0	0
178.7970	16.0000	16.0000	15.5109	15.9733	-0.4891	-0.0267	0.4898	8	0	0	0	0	0
180.7500	16.0000	16.0000	16.0360	16.1350	0.0360	0.1350	0.1397	0	0	0	0	0	0
182.9070	16.0000	16.0000	16.1350	15.8869	0.1350	-0.1131	0.1761	0	0	0	0	0	0
185.0160	16.0000	16.0000	15.8098	15.8519	-0.1902	-0.1481	0.2411	0	0	0	0	0	0
187.1880	16.0000	16.0000	15.9654	15.8202	-0.0346	-0.1798	0.1831	0	0	0	0	0	0
189.0470	16.0000	16.0000	15.9416	15.8682	-0.0584	-0.1318	0.1441	0	0	0	0	0	0
191.1570	16.0000	16.0000	15.5342	15.5148	-0.4658	-0.4852	0.6726	11	0	0	9	0	0
193.5160	16.0000	16.0000	15.4471	15.8232	-0.5529	-0.1768	0.5804	10	0	0	0	0	0
195.7040	16.0000	16.0000	16.2361	16.1578	0.2361	0.1578	0.2840	0	0	0	0	0	0
197.6720	16.0000	16.0000	16.2829	16.1021	0.2829	0.1021	0.3008	0	0	0	0	0	0
199.5940	16.0000	16.0000	16.3986	15.8698	0.3986	-0.1302	0.4193	0	6	0	7	0	0
201.7820	16.0000	16.0000	16.0730	16.0635	0.0730	0.0635	0.0968	0	0	0	0	0	0
203.8910	16.0000	16.0000	15.8441	15.8979	-0.1559	-0.1021	0.1863	0	0	0	0	0	0
206.0160	16.0000	16.0000	16.2064	15.9022	0.2064	-0.0978	0.2284	0	0	0	0	0	0
208.2350	16.0000	16.0000	16.2304	15.9553	0.2304	-0.0447	0.2347	0	0	0	0	0	0
210.5320	16.0000	16.0000	16.2967	15.8737	0.2967	-0.1263	0.3225	0	0	0	6	0	0
212.7190	16.0000	16.0000	15.6918	15.9977	-0.3082	-0.0023	0.3082	0	0	0	0	0	0
214.8600	16.0000	16.0000	16.2962	15.9899	0.2962	-0.0101	0.2963	0	0	0	0	0	0
217.0000	16.0000	16.0000	16.0088	15.8669	0.0088	-0.1331	0.1334	0	0	0	0	0	0
219.2040	16.0000	16.0000	16.0335	15.8506	0.0335	-0.1494	0.1531	0	0	0	0	0	0
221.4540	16.0000	16.0000	16.0471	15.6269	0.0471	-0.3731	0.3760	0	0	0	10	0	0
223.8290	16.0000	16.0000	15.3416	16.1014	-0.6584	0.1014	0.6662	11	0	8	0	0	0
226.0000	16.0000	16.0000	16.2030	16.1783	0.2030	0.1783	0.2702	0	0	0	0	0	0

	228.1100	16.0000	16.0000	16.4687	16.2722	0.4687	0.2722	0.5421	0	9	0	0	0	0
	230.2820	16.0000	16.0000	15.9100	15.8700	-0.0900	-0.1300	0.1581	0	0	0	0	0	0
	232.6720	16.0000	16.0000	15.7631	15.6088	-0.2369	-0.3912	0.4574	6	0	0	8	0	0
	234.9690	16.0000	16.0000	15.9925	15.8036	-0.0075	-0.1964	0.1966	0	0	0	0	0	0
	237.2820	16.0000	16.0000	16.2289	15.7358	0.2289	-0.2642	0.3496	0	0	0	9	0	0
	239.6100	16.0000	16.0000	15.8914	15.7813	-0.1086	-0.2187	0.2442	0	0	0	0	0	0
	241.9380	16.0000	16.0000	15.7149	15.5364	-0.2851	-0.4636	0.5442	8	0	0	10	0	0
	244.2820	16.0000	16.0000	16.2069	16.3693	0.2069	0.3693	0.4233	0	0	8	0	0	0
	246.6880	16.0000	16.0000	16.2709	16.5515	0.2709	0.5515	0.6144	0	8	12	0	0	0
	248.9380	16.0000	16.0000	16.0597	16.3069	0.0597	0.3069	0.3127	0	0	7	0	0	0
	251.0160	16.0000	16.0000	16.1639	16.1753	0.1639	0.1753	0.2400	0	0	0	0	0	0
	253.3130	16.0000	16.0000	16.3341	15.9726	0.3341	-0.0274	0.3352	0	0	0	0	0	0
	255.6570	16.0000	16.0000	16.3703	16.1908	0.3703	0.1908	0.4166	0	7	0	0	0	0
	257.8750	16.0000	16.0000	16.1196	16.0218	0.1196	0.0218	0.1216	0	0	0	0	0	0
	259.9220	16.0000	16.0000	16.0058	15.9647	0.0058	-0.0353	0.0357	0	0	0	0	0	0
	261.9850	16.0000	16.0000	16.2181	15.8272	0.2181	-0.1728	0.2783	0	0	0	6	0	0
	264.2970	16.0000	16.0000	16.1346	15.7631	0.1346	-0.2369	0.2725	0	0	0	8	0	0
	266.5940	16.0000	16.0000	16.0394	15.6085	0.0394	-0.3915	0.3935	0	0	0	11	0	0
	269.0940	16.0000	16.0000	16.0137	15.7517	0.0137	-0.2483	0.2487	0	0	0	7	0	0
	271.4850	16.0000	16.0000	15.7257	15.7435	-0.2743	-0.2565	0.3755	6	0	0	0	0	0
	273.5790	16.0000	16.0000	16.1407	15.8628	0.1407	-0.1372	0.1965	0	0	0	0	0	0
	275.8750	16.0000	16.0000	16.2211	15.7944	0.2211	-0.2056	0.3019	0	0	0	7	0	0
	277.9540	16.0000	16.0000	15.9508	15.9195	-0.0492	-0.0805	0.0943	0	0	0	0	0	0
	280.1880	16.0000	16.0000	15.3997	15.7317	-0.6003	-0.2683	0.6576	12	0	0	0	0	0
	282.4850	16.0000	16.0000	16.1776	15.9850	0.1776	-0.0150	0.1782	0	0	0	0	0	0
	284.8600	16.0000	16.0000	16.7057	16.0485	0.7057	0.0485	0.7073	0	12	0	0	0	0
	287.0790	16.0000	16.0000	15.9539	15.8541	-0.0461	-0.1459	0.1530	0	0	0	0	0	0
	289.1880	16.0000	16.0000	15.5431	15.5298	-0.4569	-0.4702	0.6556	10	0	0	8	0	0
	291.2190	16.0000	16.0000	15.9256	15.8035	-0.0744	-0.1965	0.2101	0	0	0	0	0	0
	293.5630	16.0000	16.0000	16.4085	15.8447	0.4085	-0.1553	0.4370	0	6	0	8	0	0
	295.7350	16.0000	16.0000	15.9599	15.9943	-0.0401	-0.0057	0.0405	0	0	0	0	0	0
	297.8130	16.0000	16.0000	15.3585	15.7416	-0.6415	-0.2584	0.6916	12	0	0	0	0	0
	299.7820	16.0000	16.0000	16.1221	16.1061	0.1221	0.1061	0.1618	0	0	0	0	0	0
	302.0790	16.0000	16.0000	16.2358	16.0244	0.2358	0.0244	0.2371	0	0	0	0	0	0
	304.5320	16.0000	16.0000	16.3738	16.0579	0.3738	0.0579	0.3783	0	6	0	0	0	0
	306.9070	16.0000	16.0000	16.1724	15.8687	0.1724	-0.1313	0.2167	0	0	0	0	0	0

 * m13_red.00001132.M_13.FIT *

CCDSOFT Tracking Report
 Start Date Time = 2006-02-28T07:57:59.093
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

	Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	18.4238	15.6155	2.4238	-0.3845	2.4541	0	39	0	32	0	0
	8.2190	16.0000	16.0000	16.7468	16.3378	0.7468	0.3378	0.8197	0	14	0	0	0	0
	10.5160	16.0000	16.0000	16.3506	16.3309	0.3506	0.3309	0.4821	0	8	0	0	0	0
	15.1880	16.0000	16.0000	15.4602	15.9786	-0.5398	-0.0214	0.5402	9	0	0	0	0	0
	17.5310	16.0000	16.0000	16.3221	16.2452	0.3221	0.2452	0.4048	0	7	0	0	0	0
	19.9220	16.0000	16.0000	16.2513	16.1019	0.2513	0.1019	0.2711	0	0	0	0	0	0
	21.8440	16.0000	16.0000	15.8953	15.9481	-0.1047	-0.0519	0.1168	0	0	0	0	0	0
	24.1100	16.0000	16.0000	15.8669	15.8319	-0.1331	-0.1681	0.2145	0	0	0	0	0	0
	26.4220	16.0000	16.0000	15.9147	15.9367	-0.0853	-0.0633	0.1062	0	0	0	0	0	0
	28.8130	16.0000	16.0000	16.3684	15.8463	0.3684	-0.1537	0.3992	0	0	0	7	0	0
	31.0310	16.0000	16.0000	16.0608	16.0045	0.0608	0.0045	0.0610	0	0	0	0	0	0
	33.3750	16.0000	16.0000	16.0005	15.7800	0.0005	-0.2200	0.2200	0	0	0	6	0	0
	35.4060	16.0000	16.0000	16.2540	16.0113	0.2540	0.0113	0.2543	0	0	0	0	0	0
	37.7030	16.0000	16.0000	16.4530	15.9545	0.4530	-0.0455	0.4553	0	7	0	0	0	0
	40.0630	16.0000	16.0000	16.2053	15.8309	0.2053	-0.1691	0.2659	0	0	0	6	0	0
	42.3750	16.0000	16.0000	16.1199	15.9117	0.1199	-0.0883	0.1490	0	0	0	0	0	0
	44.6100	16.0000	16.0000	16.0492	15.6809	0.0492	-0.3191	0.3229	0	0	0	9	0	0
	46.8130	16.0000	16.0000	16.2981	16.2104	0.2981	0.2104	0.3648	0	6	0	0	0	0

49.0780	16.0000	16.0000	15.9006	16.0491	-0.0994	0.0491	0.1109	0	0	0	0	0	0
51.4690	16.0000	16.0000	15.7692	15.8910	-0.2308	-0.1090	0.2552	0	0	0	0	0	0
53.7190	16.0000	16.0000	15.5710	15.8749	-0.4290	-0.1251	0.4468	8	0	0	0	0	0
55.9060	16.0000	16.0000	16.4015	15.9030	0.4015	-0.0970	0.4130	0	6	0	6	0	0
57.8910	16.0000	16.0000	16.1271	16.1830	0.1271	0.1830	0.2228	0	0	0	0	0	0
59.8440	16.0000	16.0000	16.0863	16.2460	0.0863	0.2460	0.2607	0	0	0	0	0	0
62.0310	16.0000	16.0000	15.4768	16.0841	-0.5232	0.0841	0.5299	8	0	7	0	0	0
64.1100	16.0000	16.0000	15.9538	16.0664	-0.0462	0.0664	0.0809	0	0	0	0	0	0
66.3280	16.0000	16.0000	16.2319	16.0596	0.2319	0.0596	0.2395	0	0	0	0	0	0
68.1720	16.0000	16.0000	16.2423	16.1852	0.2423	0.1852	0.3050	0	0	0	0	0	0
70.3600	16.0000	16.0000	15.8964	16.1134	-0.1036	0.1134	0.1536	0	0	0	0	0	0
72.5940	16.0000	16.0000	15.9717	15.7303	-0.0283	-0.2697	0.2712	0	0	0	7	0	0
74.8280	16.0000	16.0000	16.1958	15.8254	0.1958	-0.1746	0.2623	0	0	0	0	0	0
77.2030	16.0000	16.0000	16.3522	15.7669	0.3522	-0.2331	0.4223	0	0	0	9	0	0
79.3600	16.0000	16.0000	16.0750	16.1023	0.0750	0.1023	0.1268	0	0	0	0	0	0
81.5630	16.0000	16.0000	15.9075	15.9734	-0.0925	-0.0266	0.0962	0	0	0	0	0	0
83.7350	16.0000	16.0000	16.3171	16.1228	0.3171	0.1228	0.3400	0	6	0	0	0	0
85.9530	16.0000	16.0000	16.2287	15.9421	0.2287	-0.0579	0.2359	0	0	0	0	0	0
88.2970	16.0000	16.0000	16.1832	15.9792	0.1832	-0.0208	0.1844	0	0	0	0	0	0
90.2500	16.0000	16.0000	16.2702	15.9081	0.2702	-0.0919	0.2854	0	0	0	0	0	0
92.5000	16.0000	16.0000	16.4451	15.8239	0.4451	-0.1761	0.4786	0	6	0	8	0	0
94.8280	16.0000	16.0000	15.9838	15.9082	-0.0162	-0.0918	0.0932	0	0	0	0	0	0
96.9060	16.0000	16.0000	16.1408	16.0563	0.1408	0.0563	0.1517	0	0	0	0	0	0
99.1100	16.0000	16.0000	16.0632	15.9305	0.0632	-0.0695	0.0939	0	0	0	0	0	0
101.3440	16.0000	16.0000	15.9377	15.8595	-0.0623	-0.1405	0.1536	0	0	0	0	0	0
103.4530	16.0000	16.0000	16.2507	15.7807	0.2507	-0.2193	0.3331	0	0	0	8	0	0
105.8130	16.0000	16.0000	16.3681	16.2187	0.3681	0.2187	0.4282	0	7	0	0	0	0
108.1410	16.0000	16.0000	15.5872	15.8649	-0.4128	-0.1351	0.4343	8	0	0	0	0	0
110.3750	16.0000	16.0000	16.0088	16.0090	0.0088	0.0090	0.0126	0	0	0	0	0	0
112.5310	16.0000	16.0000	16.1003	15.8442	0.1003	-0.1558	0.1853	0	0	0	0	0	0
114.8130	16.0000	16.0000	16.3888	15.7345	0.3888	-0.2655	0.4708	0	0	0	10	0	0
116.7030	16.0000	16.0000	16.1025	16.0725	0.1025	0.0725	0.1256	0	0	0	0	0	0
118.8600	16.0000	16.0000	15.9026	16.0690	-0.0974	0.0690	0.1194	0	0	0	0	0	0
121.1100	16.0000	16.0000	15.8500	15.8945	-0.1500	-0.1055	0.1834	0	0	0	0	0	0
123.2030	16.0000	16.0000	16.0685	15.8721	0.0685	-0.1279	0.1451	0	0	0	0	0	0
125.4220	16.0000	16.0000	15.9513	15.9009	-0.0487	-0.0991	0.1104	0	0	0	0	0	0
127.8600	16.0000	16.0000	15.4168	15.7378	-0.5832	-0.2622	0.6394	12	0	0	0	0	0
130.1250	16.0000	16.0000	16.3962	15.8892	0.3962	-0.1108	0.4114	0	6	0	6	0	0
132.5310	16.0000	16.0000	16.3144	15.9641	0.3144	-0.0359	0.3165	0	0	0	0	0	0
134.7350	16.0000	16.0000	16.5144	15.9385	0.5144	-0.0615	0.5181	0	8	0	6	0	0
136.7970	16.0000	16.0000	15.8243	16.0649	-0.1757	0.0649	0.1873	0	0	0	0	0	0
138.9690	16.0000	16.0000	15.9367	15.9639	-0.0633	-0.0361	0.0729	0	0	0	0	0	0
141.2810	16.0000	16.0000	16.0252	15.8284	0.0252	-0.1716	0.1735	0	0	0	0	0	0
143.6560	16.0000	16.0000	16.1198	15.6582	0.1198	-0.3418	0.3622	0	0	0	10	0	0
145.9690	16.0000	16.0000	15.8327	15.8667	-0.1673	-0.1333	0.2139	0	0	0	0	0	0
148.1880	16.0000	16.0000	15.7428	15.7288	-0.2572	-0.2712	0.3737	6	0	0	0	0	0
150.5940	16.0000	16.0000	15.4264	16.0257	-0.5736	0.0257	0.5742	9	0	0	0	0	0
152.5470	16.0000	16.0000	16.0857	15.8993	0.0857	-0.1007	0.1322	0	0	0	0	0	0
154.7810	16.0000	16.0000	16.2043	15.8787	0.2043	-0.1213	0.2376	0	0	0	0	0	0
157.0630	16.0000	16.0000	15.7555	15.5357	-0.2445	-0.4643	0.5247	7	0	0	0	0	0
159.4530	16.0000	16.0000	15.2965	16.0913	-0.7035	0.0913	0.7094	12	0	8	10	0	0
161.5940	16.0000	16.0000	15.9274	16.2256	-0.0726	0.2256	0.2370	0	0	6	0	0	0
163.8280	16.0000	16.0000	16.1656	16.1491	0.1656	0.1491	0.2229	0	0	0	0	0	0
165.9530	16.0000	16.0000	15.8445	16.0578	-0.1555	0.0578	0.1659	0	0	0	0	0	0
168.0630	16.0000	16.0000	15.8521	15.9020	-0.1479	-0.0980	0.1774	0	0	0	0	0	0
170.1720	16.0000	16.0000	15.9756	15.9271	-0.0244	-0.0729	0.0769	0	0	0	0	0	0
172.2190	16.0000	16.0000	16.0981	15.8467	0.0981	-0.1533	0.1820	0	0	0	0	0	0
174.2030	16.0000	16.0000	15.8389	15.7220	-0.1611	-0.2780	0.3213	0	0	0	6	0	0
176.3130	16.0000	16.0000	15.4577	15.5577	-0.5423	-0.4423	0.6998	12	0	0	0	0	0
178.4850	16.0000	16.0000	16.0866	15.7252	0.0866	-0.2748	0.2881	0	0	0	8	0	0
180.5940	16.0000	16.0000	16.2079	15.9547	0.2079	-0.0453	0.2128	0	0	0	0	0	0
182.9060	16.0000	16.0000	15.8397	15.8142	-0.1603	-0.1858	0.2454	0	0	0	0	0	0
185.2810	16.0000	16.0000	15.9534	15.6132	-0.0466	-0.3868	0.3896	0	0	0	10	0	0
187.3910	16.0000	16.0000	15.8190	16.0475	-0.1810	0.0475	0.1871	0	0	0	0	0	0
189.7030	16.0000	16.0000	15.5491	16.0586	-0.4509	0.0586	0.4547	8	0	0	0	0	0
191.9690	16.0000	16.0000	16.0826	16.1048	0.0826	0.1048	0.1335	0	0	0	0	0	0
194.2500	16.0000	16.0000	15.9383	16.1089	-0.0617	0.1089	0.1252	0	0	0	0	0	0
196.4690	16.0000	16.0000	15.8408	16.0087	-0.1592	0.0087	0.1594	0	0	0	0	0	0
198.8130	16.0000	16.0000	15.9288	15.8121	-0.0712	-0.1879	0.2009	0	0	0	0	0	0
201.0000	16.0000	16.0000	16.0832	15.9216	0.0832	-0.0784	0.1143	0	0	0	0	0	0
203.3910	16.0000	16.0000	15.9079	15.5355	-0.0921	-0.4645	0.4735	0	0	0	12	0	0
205.8440	16.0000	16.0000	15.1740	15.9639	-0.8260	-0.0361	0.8268	15	0	6	0	0	0
207.9380	16.0000	16.0000	15.8116	16.0526	-0.1884	0.0526	0.1956	0	0	0	0	0	0
210.1880	16.0000	16.0000	15.8921	15.9614	-0.1079	-0.0386	0.1146	0	0	0	0	0	0
212.5160	16.0000	16.0000	15.7847	15.9510	-0.2153	-0.0490	0.2208	0	0	0	0	0	0
214.7350	16.0000	16.0000	15.2415	15.8291	-0.7585	-0.1709	0.7775	14	0	0	0	0	0
216.8910	16.0000	16.0000	15.9030	15.8800	-0.0970	-0.1200	0.1543	0	0	0	0	0	0
219.0940	16.0000	16.0000	15.9439	15.9551	-0.0561	-0.0449	0.0718	0	0	0	0	0	0
221.4850	16.0000	16.0000	15.8561	15.7310	-0.1439	-0.2690	0.3050	0	0	0	6	0	0
223.8600	16.0000	16.0000	15.2760	15.5064	-0.7240	-0.4936	0.8763	16	0	0	7	0	0
226.0000	16.0000	16.0000	16.0616	16.0158	0.0616	0.0158	0.0636	0	0	0	0	0	0
228.2030	16.0000	16.0000	16.2761	16.0445	0.2761	0.0445	0.2797	0	0	0	0	0	0
230.3280	16.0000	16.0000	16.1434	15.9886	0.1434	-0.0114	0.1439	0	0	0	0	0	0
232.5310	16.0000	16.0000	16.0915	15.7369	0.0915	-0.2631	0.2785	0	0	0	8	0	0

	234.6100	16.0000	16.0000	15.9157	15.8350	-0.0843	-0.1650	0.1853	0	0	0	0	0	0
	236.8600	16.0000	16.0000	15.8961	16.1243	-0.1039	-0.1243	0.1620	0	0	0	0	0	0
	239.1410	16.0000	16.0000	15.8565	15.8460	-0.1435	-0.1540	0.2105	0	0	0	0	0	0
	241.0940	16.0000	16.0000	15.8215	15.7904	-0.1785	-0.2096	0.2753	0	0	0	0	0	0
	243.3750	16.0000	16.0000	15.3446	15.5204	-0.6554	-0.4796	0.8122	14	0	0	7	0	0
	245.8750	16.0000	16.0000	15.6010	15.9353	-0.3990	-0.0647	0.4042	7	0	0	0	0	0
	248.0630	16.0000	16.0000	15.8525	16.0551	-0.1475	0.0551	0.1574	0	0	0	0	0	0
	250.2660	16.0000	16.0000	16.0662	15.9205	0.0662	-0.0795	0.1035	0	0	0	0	0	0
	252.6250	16.0000	16.0000	15.5966	15.7155	-0.4034	-0.2845	0.4936	8	0	0	0	0	0
	254.9690	16.0000	16.0000	15.6918	15.8157	-0.3082	-0.1843	0.3591	6	0	0	0	0	0
	257.3280	16.0000	16.0000	16.1669	15.6970	0.1669	-0.3030	0.3459	0	0	9	0	0	0
	259.5940	16.0000	16.0000	15.9396	15.9362	-0.0604	-0.0638	0.0879	0	0	0	0	0	0
	262.0780	16.0000	16.0000	15.1762	15.7911	-0.8238	-0.2089	0.8499	16	0	0	0	0	0
	264.2500	16.0000	16.0000	15.8457	15.8169	-0.1543	-0.1831	0.2395	0	0	0	0	0	0
	266.5780	16.0000	16.0000	16.3046	15.8972	0.3046	-0.1028	0.3215	0	0	0	0	0	0
	268.7500	16.0000	16.0000	16.2243	15.9136	0.2243	-0.0864	0.2403	0	0	0	0	0	0
	271.2030	16.0000	16.0000	15.9287	15.3975	-0.0713	-0.6025	0.6067	0	0	0	16	0	0
	273.5630	16.0000	16.0000	16.0057	16.2518	0.0057	0.2518	0.2519	0	0	6	0	0	0
	275.8280	16.0000	16.0000	16.1986	16.4342	0.1986	0.4342	0.4774	0	0	9	0	0	0
	278.0780	16.0000	16.0000	16.1949	16.3153	0.1949	0.3153	0.3706	0	0	6	0	0	0
	280.1720	16.0000	16.0000	16.1086	16.1387	0.1086	0.1387	0.1762	0	0	0	0	0	0
	282.4850	16.0000	16.0000	16.0656	16.1644	0.0656	0.1644	0.1770	0	0	0	0	0	0
	284.5470	16.0000	16.0000	16.1201	16.1257	0.1201	0.1257	0.1739	0	0	0	0	0	0
	286.4060	16.0000	16.0000	16.2380	16.1005	0.2380	0.1005	0.2584	0	0	0	0	0	0
	288.6720	16.0000	16.0000	16.2066	16.0437	0.2066	0.0437	0.2112	0	0	0	0	0	0
	290.8280	16.0000	16.0000	16.0798	15.9066	0.0798	-0.0934	0.1229	0	0	0	0	0	0
	292.9690	16.0000	16.0000	16.1227	16.0523	0.1227	0.0523	0.1334	0	0	0	0	0	0
	295.1880	16.0000	16.0000	16.3999	15.7506	0.3999	-0.2494	0.4713	0	0	0	10	0	0
	297.6410	16.0000	16.0000	16.3392	15.5968	0.3392	-0.4032	0.5269	0	0	0	14	0	0
	299.9060	16.0000	16.0000	15.8574	15.6985	-0.1426	-0.3015	0.3335	0	0	0	7	0	0
	302.0160	16.0000	16.0000	15.8423	16.0241	-0.1577	0.0241	0.1596	0	0	0	0	0	0
	304.2190	16.0000	16.0000	16.0161	15.8207	0.0161	-0.1793	0.1800	0	0	0	0	0	0
	306.2810	16.0000	16.0000	16.0059	16.0456	0.0059	0.0456	0.0459	0	0	0	0	0	0
	308.4530	16.0000	16.0000	16.0273	15.7666	0.0273	-0.2334	0.2349	0	0	0	6	0	0
	310.7970	16.0000	16.0000	15.5256	15.9087	-0.4744	-0.0913	0.4831	8	0	0	0	0	0

 * m13_red.00001133.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T08:03:17.093
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	18.3657	15.8963	2.3657	-0.1037	2.3680	0	40	0	23	0
	8.3600	16.0000	16.0000	16.9267	16.4359	0.9267	0.4359	1.0241	0	18	0	0	0
	10.6410	16.0000	16.0000	16.0554	16.1017	0.0554	0.1017	0.1158	0	0	0	0	0
	14.7660	16.0000	16.0000	16.3520	15.9722	0.3520	-0.0278	0.3531	0	0	0	0	0
	17.0160	16.0000	16.0000	16.1609	15.9788	0.1609	-0.0212	0.1623	0	0	0	0	0
	19.1100	16.0000	16.0000	16.2492	15.7740	0.2492	-0.2260	0.3365	0	0	0	8	0
	21.3280	16.0000	16.0000	15.9645	16.0545	-0.0355	0.0545	0.0650	0	0	0	0	0
	23.5940	16.0000	16.0000	16.0925	16.0538	0.0925	0.0538	0.1070	0	0	0	0	0
	25.7030	16.0000	16.0000	16.0344	16.0135	0.0344	0.0135	0.0369	0	0	0	0	0
	27.8750	16.0000	16.0000	16.2120	15.9944	0.2120	-0.0056	0.2120	0	0	0	0	0
	30.3130	16.0000	16.0000	15.3587	15.8499	-0.6413	-0.1501	0.6587	12	0	0	0	0
	32.5310	16.0000	16.0000	16.1054	15.8061	0.1054	-0.1939	0.2207	0	0	0	6	0
	34.7030	16.0000	16.0000	16.2201	16.0238	0.2201	0.0238	0.2214	0	0	0	0	0
	36.9530	16.0000	16.0000	16.4246	16.0691	0.4246	0.0691	0.4302	0	8	0	0	0
	39.3130	16.0000	16.0000	15.6503	15.7332	-0.3497	-0.2668	0.4398	8	0	0	0	0
	41.6560	16.0000	16.0000	16.1428	15.6673	0.1428	-0.3327	0.3621	0	0	0	10	0
	43.8600	16.0000	16.0000	16.2073	15.8980	0.2073	-0.1020	0.2311	0	0	0	0	0
	46.2500	16.0000	16.0000	16.4219	16.0755	0.4219	0.0755	0.4286	0	8	0	0	0
	48.4850	16.0000	16.0000	15.8784	15.8872	-0.1216	-0.1128	0.1659	0	0	0	0	0

50.5310	16.0000	16.0000	15.9590	15.7767	-0.0410	-0.2233	0.2270	0	0	0	0	0	0
52.8440	16.0000	16.0000	16.2912	15.9095	0.2912	-0.0905	0.3049	0	0	0	0	0	0
55.3130	16.0000	16.0000	16.5645	15.9448	0.5645	-0.0552	0.5672	0	9	0	6	0	0
57.6100	16.0000	16.0000	15.8915	15.9554	-0.1085	-0.0446	0.1173	0	0	0	0	0	0
59.8750	16.0000	16.0000	16.1597	15.9845	0.1597	-0.0155	0.1604	0	0	0	0	0	0
62.1880	16.0000	16.0000	16.4843	16.0689	0.4843	-0.0689	0.4892	0	8	0	0	0	0
64.4530	16.0000	16.0000	16.1445	15.9129	0.1445	-0.0871	0.1687	0	0	0	0	0	0
66.7030	16.0000	16.0000	16.1770	15.7033	0.1770	-0.2967	0.3455	0	0	0	9	0	0
69.1410	16.0000	16.0000	16.2186	15.9329	0.2186	-0.0671	0.2287	0	0	0	0	0	0
71.3600	16.0000	16.0000	16.0861	16.0088	0.0861	0.0088	0.0865	0	0	0	0	0	0
73.5630	16.0000	16.0000	16.2411	15.9790	0.2411	-0.0210	0.2420	0	0	0	0	0	0
75.8750	16.0000	16.0000	16.1694	15.9464	0.1694	-0.0536	0.1777	0	0	0	0	0	0
78.2030	16.0000	16.0000	15.8996	15.8353	-0.1004	-0.1647	0.1929	0	0	0	0	0	0
80.5780	16.0000	16.0000	16.0414	15.7680	0.0414	-0.2320	0.2356	0	0	0	6	0	0
82.7970	16.0000	16.0000	16.3015	15.9389	0.3015	-0.0611	0.3076	0	0	0	0	0	0
85.2350	16.0000	16.0000	16.3427	16.0268	0.3427	0.0268	0.3437	0	6	0	0	0	0
87.3910	16.0000	16.0000	15.7786	15.8511	-0.2214	-0.1489	0.2668	0	0	0	0	0	0
89.7500	16.0000	16.0000	15.8636	15.5556	-0.1364	-0.4444	0.4648	0	0	0	11	0	0
91.9060	16.0000	16.0000	16.1117	16.1409	0.1117	0.1409	0.1799	0	0	0	0	0	0
94.1560	16.0000	16.0000	16.2333	16.2342	0.2333	0.2342	0.3306	0	0	0	0	0	0
96.3280	16.0000	16.0000	16.0190	16.1141	0.0190	0.1141	0.1157	0	0	0	0	0	0
98.6410	16.0000	16.0000	16.2472	16.0647	0.2472	0.0647	0.2556	0	0	0	0	0	0
101.0630	16.0000	16.0000	16.5593	16.1287	0.5593	0.1287	0.5739	0	10	0	0	0	0
103.4060	16.0000	16.0000	16.3578	16.0616	0.3578	0.0616	0.3631	0	6	0	0	0	0
105.7350	16.0000	16.0000	15.9480	15.9892	-0.0520	-0.0108	0.0531	0	0	0	0	0	0
107.9060	16.0000	16.0000	15.9312	15.8084	-0.0688	-0.1916	0.2036	0	0	0	0	0	0
110.2500	16.0000	16.0000	16.0457	15.7705	0.0457	-0.2295	0.2340	0	0	0	6	0	0
112.4380	16.0000	16.0000	16.0164	16.1000	0.0164	0.1000	0.1013	0	0	0	0	0	0
114.6720	16.0000	16.0000	16.0573	15.9868	0.0573	-0.0132	0.0588	0	0	0	0	0	0
116.7810	16.0000	16.0000	15.9297	15.7799	-0.0703	-0.2201	0.2310	0	0	0	0	0	0
118.8130	16.0000	16.0000	15.8249	15.8243	-0.1751	-0.1757	0.2480	0	0	0	0	0	0
120.9530	16.0000	16.0000	15.9179	15.6859	-0.0821	-0.3141	0.3247	0	0	0	8	0	0
123.1250	16.0000	16.0000	16.0032	15.9232	0.0032	-0.0768	0.0769	0	0	0	0	0	0
125.5310	16.0000	16.0000	15.4844	15.8577	-0.5156	-0.1423	0.5349	9	0	0	0	0	0
127.9380	16.0000	16.0000	15.3967	15.7321	-0.6033	-0.2679	0.6601	12	0	0	0	0	0
129.9530	16.0000	16.0000	16.5401	15.8114	0.5401	-0.1886	0.5721	0	8	0	9	0	0
132.1720	16.0000	16.0000	16.3974	16.1025	0.3974	0.1025	0.4104	0	7	0	0	0	0
134.2970	16.0000	16.0000	16.0908	15.9383	0.0908	-0.0617	0.1098	0	0	0	0	0	0
136.2970	16.0000	16.0000	15.5483	15.7987	-0.4517	-0.2013	0.4946	8	0	0	0	0	0
138.4690	16.0000	16.0000	16.2137	15.9105	0.2137	-0.0895	0.2317	0	0	0	0	0	0
140.7500	16.0000	16.0000	16.3624	16.0161	0.3624	0.0161	0.3627	0	6	0	0	0	0
143.0630	16.0000	16.0000	15.9974	15.7911	-0.0026	-0.2089	0.2089	0	0	0	0	0	0
145.2660	16.0000	16.0000	15.4308	15.4350	-0.5692	-0.5650	0.8020	13	0	0	10	0	0
147.5940	16.0000	16.0000	16.4177	16.0608	0.4177	0.0608	0.4221	0	7	0	0	0	0
149.6720	16.0000	16.0000	16.1315	15.9940	0.1315	-0.0060	0.1317	0	0	0	0	0	0
151.8750	16.0000	16.0000	16.5173	15.9248	0.5173	-0.0752	0.5227	0	8	0	6	0	0
154.0940	16.0000	16.0000	15.7679	16.0127	-0.2321	0.0127	0.2325	0	0	0	0	0	0
156.4380	16.0000	16.0000	15.7398	15.9570	-0.2602	-0.0430	0.2637	0	0	0	0	0	0
158.6100	16.0000	16.0000	15.9027	15.8690	-0.0973	-0.1310	0.1631	0	0	0	0	0	0
160.9380	16.0000	16.0000	16.2545	15.8488	0.2545	-0.1512	0.2960	0	0	0	6	0	0
163.1250	16.0000	16.0000	16.0863	16.1042	0.0863	0.1042	0.1353	0	0	0	0	0	0
165.0160	16.0000	16.0000	15.8634	16.1472	-0.1366	0.1472	0.2008	0	0	0	0	0	0
167.1720	16.0000	16.0000	15.7763	15.9363	-0.2237	-0.0637	0.2326	0	0	0	0	0	0
169.3910	16.0000	16.0000	16.0370	15.9175	0.0370	-0.0825	0.0904	0	0	0	0	0	0
171.5630	16.0000	16.0000	16.3125	16.0877	0.3125	0.0877	0.3246	0	0	0	0	0	0
173.7350	16.0000	16.0000	15.8610	15.9640	-0.1390	-0.0360	0.1436	0	0	0	0	0	0
176.0780	16.0000	16.0000	15.3380	15.8477	-0.6620	-0.1523	0.6793	12	0	0	0	0	0
178.5160	16.0000	16.0000	16.6927	16.0914	0.6927	0.0914	0.6987	0	12	0	0	0	0
180.7660	16.0000	16.0000	16.2232	15.7987	0.2232	-0.2013	0.3006	0	0	0	7	0	0
183.1720	16.0000	16.0000	15.4649	15.7399	-0.5351	-0.2601	0.5950	11	0	0	0	0	0
185.5630	16.0000	16.0000	16.1917	15.7438	0.1917	-0.2562	0.3200	0	0	0	8	0	0
187.8600	16.0000	16.0000	16.4286	15.9964	0.4286	-0.0036	0.4286	0	7	0	0	0	0
190.1720	16.0000	16.0000	16.0315	15.9570	0.0315	-0.0430	0.0533	0	0	0	0	0	0
192.4530	16.0000	16.0000	15.8095	15.7112	-0.1905	-0.2888	0.3460	0	0	0	6	0	0
194.6560	16.0000	16.0000	15.8212	16.0403	-0.1788	0.0403	0.1833	0	0	0	0	0	0
197.0000	16.0000	16.0000	15.9755	15.9343	-0.0245	-0.0657	0.0701	0	0	0	0	0	0
199.0940	16.0000	16.0000	16.0440	15.9721	0.0440	-0.0279	0.0521	0	0	0	0	0	0
201.4060	16.0000	16.0000	15.8321	15.9334	-0.1679	-0.0666	0.1807	0	0	0	0	0	0
203.6560	16.0000	16.0000	15.3778	15.7598	-0.6222	-0.2402	0.6669	12	0	0	0	0	0
206.0000	16.0000	16.0000	16.0231	15.7904	0.0231	-0.2096	0.2109	0	0	0	0	0	0
208.3440	16.0000	16.0000	16.2527	15.7828	0.2527	-0.2172	0.3332	0	0	0	8	0	0
210.5470	16.0000	16.0000	15.9318	16.0098	-0.0682	0.0098	0.0689	0	0	0	0	0	0
212.8280	16.0000	16.0000	15.4102	15.8383	-0.5898	-0.1617	0.6116	11	0	0	0	0	0
215.0470	16.0000	16.0000	16.0432	15.7876	0.0432	-0.2124	0.2168	0	0	0	6	0	0
217.3600	16.0000	16.0000	16.0174	16.2432	0.0174	0.2432	0.2438	0	0	6	0	0	0
219.6720	16.0000	16.0000	15.7676	16.0619	-0.2324	0.0619	0.2405	0	0	0	0	0	0
222.0470	16.0000	16.0000	15.2769	15.8687	-0.7231	-0.1313	0.7349	13	0	0	0	0	0
224.1100	16.0000	16.0000	16.0796	15.9204	0.0796	-0.0796	0.1126	0	0	0	0	0	0
226.4690	16.0000	16.0000	16.2749	16.0031	0.2749	0.0031	0.2749	0	0	0	0	0	0
228.6880	16.0000	16.0000	16.0843	15.9966	0.0843	-0.0034	0.0844	0	0	0	0	0	0
230.8600	16.0000	16.0000	15.8771	15.8803	-0.1229	-0.1197	0.1716	0	0	0	0	0	0
233.2500	16.0000	16.0000	15.4215	15.7222	-0.5785	-0.2778	0.6417	12	0	0	0	0	0
235.6250	16.0000	16.0000	16.8268	15.8019	0.8268	-0.1981	0.8502	0	12	0	12	0	0
237.9060	16.0000	16.0000	16.2624	15.8830	0.2624	-0.1170	0.2873	0	0	0	0	0	0

	239.9850	16.0000	16.0000	15.9464	15.5932	-0.0536	-0.4068	0.4103	0	0	0	10	0	0
	242.5470	16.0000	16.0000	15.4957	15.8457	-0.5043	-0.1543	0.5273	9	0	0	0	0	0
	244.8910	16.0000	16.0000	16.7451	16.0195	0.7451	0.0195	0.7454	0	12	0	0	0	0
	247.2350	16.0000	16.0000	15.9536	15.5579	-0.0464	-0.4421	0.4445	0	0	0	12	0	0
	249.4380	16.0000	16.0000	15.8700	16.1238	-0.1300	0.1238	0.1795	0	0	0	0	0	0
	251.7030	16.0000	16.0000	15.4789	15.9621	-0.5211	-0.0379	0.5225	9	0	0	0	0	0
	253.9380	16.0000	16.0000	15.7542	16.0198	-0.2458	0.0198	0.2466	0	0	0	0	0	0
	256.1560	16.0000	16.0000	15.4898	15.9903	-0.5102	-0.0097	0.5103	8	0	0	0	0	0
	258.2350	16.0000	16.0000	15.9126	16.1828	-0.0874	0.1828	0.2027	0	0	0	0	0	0
	260.3910	16.0000	16.0000	15.7653	15.9208	-0.2347	-0.0792	0.2477	0	0	0	0	0	0
	262.2500	16.0000	16.0000	15.9205	15.9609	-0.0795	-0.0391	0.0886	0	0	0	0	0	0
	264.5160	16.0000	16.0000	15.8568	15.8879	-0.1432	-0.1121	0.1819	0	0	0	0	0	0
	266.5470	16.0000	16.0000	16.2143	15.9079	0.2143	-0.0921	0.2332	0	0	0	0	0	0
	268.4220	16.0000	16.0000	16.0767	15.8408	0.0767	-0.1592	0.1767	0	0	0	0	0	0
	270.7190	16.0000	16.0000	15.5777	15.4282	-0.4223	-0.5718	0.7108	10	0	0	12	0	0
	272.9220	16.0000	16.0000	15.8961	16.1676	-0.1039	0.1676	0.1972	0	0	0	0	0	0
	275.3440	16.0000	16.0000	16.3481	16.1009	0.3481	0.1009	0.3624	0	6	0	0	0	0
	277.6560	16.0000	16.0000	15.9050	16.0003	-0.0950	0.0003	0.0950	0	0	0	0	0	0
	279.8280	16.0000	16.0000	15.5301	15.8140	-0.4699	-0.1860	0.5054	9	0	0	0	0	0
	282.0940	16.0000	16.0000	16.1358	15.8095	0.1358	-0.1905	0.2339	0	0	0	6	0	0
	284.3440	16.0000	16.0000	16.2283	15.9818	0.2283	-0.0182	0.2290	0	0	0	0	0	0
	286.3750	16.0000	16.0000	16.4118	16.0077	0.4118	0.0077	0.4119	0	7	0	0	0	0
	288.7660	16.0000	16.0000	15.7846	15.5995	-0.2154	-0.4005	0.4547	6	0	0	8	0	0
	291.1720	16.0000	16.0000	15.9933	16.2720	-0.0067	0.2720	0.2721	0	0	7	0	0	0
	293.6250	16.0000	16.0000	16.3469	16.1651	0.3469	0.1651	0.3842	0	7	0	0	0	0
	296.0160	16.0000	16.0000	16.1847	16.0081	0.1847	0.0081	0.1849	0	0	0	0	0	0
	298.2500	16.0000	16.0000	15.3851	16.0001	-0.6149	0.0001	0.6149	11	0	0	0	0	0
	300.3910	16.0000	16.0000	16.2465	15.9686	0.2465	-0.0314	0.2485	0	0	0	0	0	0
	302.6560	16.0000	16.0000	16.2674	15.9485	0.2674	-0.0515	0.2723	0	0	0	0	0	0
	304.9380	16.0000	16.0000	16.0859	15.9466	0.0859	-0.0534	0.1011	0	0	0	0	0	0
	307.0160	16.0000	16.0000	16.1999	15.9660	0.1999	-0.0340	0.2028	0	0	0	0	0	0
	309.2970	16.0000	16.0000	16.0888	15.6038	0.0888	-0.3962	0.4060	0	0	0	12	0	0
	311.4060	16.0000	16.0000	16.0592	15.7540	0.0592	-0.2460	0.2530	0	0	0	7	0	0

 * m13_red.00001134.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T08:08:35.156
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	15.1120	17.7796	-0.8880	1.7796	1.9888	0	0	50	0	0
	8.6090	16.0000	16.0000	15.2622	17.6439	-0.7378	1.6439	1.8019	0	0	49	0	0
	11.2660	16.0000	16.0000	15.1479	17.2695	-0.8521	1.2695	1.5290	8	0	40	0	0
	14.0160	16.0000	16.0000	15.5615	17.4752	-0.4385	1.4752	1.5390	0	0	42	0	0
	16.5620	16.0000	16.0000	15.8355	17.1909	-0.1645	1.1909	1.2023	0	0	32	0	0
	18.8590	16.0000	16.0000	15.7033	17.2030	-0.2967	1.2030	1.2390	0	0	33	0	0
	21.2970	16.0000	16.0000	15.9419	17.1171	-0.0581	1.1171	1.1186	0	0	29	0	0
	23.7970	16.0000	16.0000	16.1155	16.8823	0.1155	0.8823	0.8899	0	7	21	0	0
	26.0310	16.0000	16.0000	15.5894	16.4782	-0.4106	0.4782	0.6303	0	0	16	0	0
	28.4370	16.0000	16.0000	15.2910	16.2195	-0.7090	0.2195	0.7422	11	0	12	0	0
	30.6870	16.0000	16.0000	16.2984	15.9931	0.2984	-0.0069	0.2985	0	0	0	0	0
	35.0780	16.0000	16.0000	16.3841	16.0951	0.3841	0.0951	0.3957	0	7	0	0	0
	37.2970	16.0000	16.0000	16.0670	15.7260	0.0670	-0.2740	0.2821	0	0	8	0	0
	39.4530	16.0000	16.0000	16.0443	15.7587	0.0443	-0.2413	0.2453	0	0	0	7	0
	41.8280	16.0000	16.0000	16.2260	15.6255	0.2260	-0.3745	0.4374	0	0	0	12	0
	44.2030	16.0000	16.0000	16.2557	15.4185	0.2557	-0.5815	0.6352	0	0	0	18	0
	46.6720	16.0000	16.0000	16.0314	15.3290	0.0314	-0.6710	0.6718	0	0	0	18	0
	49.1250	16.0000	16.0000	15.9512	15.3766	-0.0488	0.6234	0.6253	0	0	0	16	0
	51.5310	16.0000	16.0000	16.4404	15.3817	0.4404	-0.6183	0.7591	0	0	0	20	0
	53.9060	16.0000	16.0000	16.4125	15.2631	0.4125	-0.7369	0.8445	0	0	0	24	0
	56.3750	16.0000	16.0000	15.9435	15.1077	-0.0565	-0.8923	0.8941	6	0	0	24	0

58.8120	16.0000	16.0000	15.8802	15.0176	-0.1198	-0.9824	0.9897	8	0	0	25	0	0
61.2970	16.0000	16.0000	16.5130	15.1607	0.5130	-0.8393	0.9837	0	0	0	27	0	0
63.8910	16.0000	16.0000	16.4809	14.8800	0.4809	-1.1200	1.2189	0	0	0	35	0	0
66.4370	16.0000	16.0000	16.1832	14.6988	0.1832	-1.3012	1.3140	0	0	0	37	0	0
69.2660	16.0000	16.0000	16.4998	14.9741	0.4998	-1.0259	1.1412	0	0	0	32	0	0
71.8440	16.0000	16.0000	16.6848	15.1665	0.6848	-0.8335	1.0787	0	7	0	28	0	0
74.2190	16.0000	16.0000	15.6332	15.8668	-0.3668	-0.1332	0.3902	7	0	0	0	0	0
76.4530	16.0000	16.0000	15.8938	15.7808	-0.1062	-0.2192	0.2436	0	0	0	0	0	0
78.8280	16.0000	16.0000	16.1537	15.5734	0.1537	-0.4266	0.4534	0	0	0	12	0	0
81.0160	16.0000	16.0000	16.1974	16.0051	0.1974	0.0051	0.1974	0	0	0	0	0	0
83.2030	16.0000	16.0000	16.0737	16.0400	0.0737	0.0400	0.0839	0	0	0	0	0	0
85.2340	16.0000	16.0000	15.8835	15.9918	-0.1165	-0.0082	0.1168	0	0	0	0	0	0
87.5470	16.0000	16.0000	16.0981	15.8637	0.0981	-0.1363	0.1679	0	0	0	0	0	0
89.6560	16.0000	16.0000	15.7992	15.8766	-0.2008	-0.1234	0.2357	0	0	0	0	0	0
91.8590	16.0000	16.0000	15.9139	15.5798	-0.0861	-0.4202	0.4289	0	0	0	11	0	0
94.1870	16.0000	16.0000	15.2778	15.8271	-0.7222	-0.1729	0.7426	13	0	0	0	0	0
96.5310	16.0000	16.0000	15.3709	15.9495	-0.6291	-0.0505	0.6311	11	0	0	0	0	0
98.9220	16.0000	16.0000	16.1721	16.0297	0.1721	0.0297	0.1747	0	0	0	0	0	0
101.2970	16.0000	16.0000	16.2238	16.1560	0.2238	0.1560	0.2728	0	0	0	0	0	0
103.2970	16.0000	16.0000	15.5980	15.8961	-0.4020	-0.1039	0.4152	8	0	0	0	0	0
105.4060	16.0000	16.0000	15.9734	15.8263	-0.0266	-0.1737	0.1758	0	0	0	0	0	0
107.6870	16.0000	16.0000	16.3429	15.7421	0.3429	-0.2579	0.4291	0	0	0	10	0	0
109.8590	16.0000	16.0000	15.5548	16.2334	-0.4452	0.2334	0.5027	6	0	10	0	0	0
112.1250	16.0000	16.0000	16.1487	16.2613	0.1487	0.2613	0.3006	0	0	0	0	0	0
114.1410	16.0000	16.0000	15.9725	16.1891	-0.0275	0.1891	0.1911	0	0	0	0	0	0
116.3280	16.0000	16.0000	16.3110	15.9179	0.3110	-0.0821	0.3217	0	0	0	0	0	0
118.6870	16.0000	16.0000	16.4716	15.9965	0.4716	-0.0035	0.4716	0	8	0	0	0	0
120.8120	16.0000	16.0000	16.0458	15.9213	0.0458	-0.0787	0.0911	0	0	0	0	0	0
123.1410	16.0000	16.0000	15.4462	15.8277	-0.5538	-0.1723	0.5800	10	0	0	0	0	0
125.5160	16.0000	16.0000	16.3874	15.7952	0.3874	-0.2048	0.4382	0	0	0	8	0	0
127.5780	16.0000	16.0000	16.0135	15.8174	0.0135	-0.1826	0.1831	0	0	0	0	0	0
129.8280	16.0000	16.0000	16.0160	15.6849	0.0160	-0.3151	0.3155	0	0	0	8	0	0
132.0780	16.0000	16.0000	16.1833	15.7630	0.1833	-0.2370	0.2996	0	0	0	8	0	0
134.3440	16.0000	16.0000	15.5445	15.8609	-0.4555	-0.1391	0.4763	8	0	0	0	0	0
136.5470	16.0000	16.0000	16.2419	15.9761	0.2419	-0.0239	0.2431	0	0	0	0	0	0
138.5470	16.0000	16.0000	16.0663	16.0855	0.0663	0.0855	0.1083	0	0	0	0	0	0
140.9060	16.0000	16.0000	16.1404	15.8236	0.1404	-0.1764	0.2254	0	0	0	6	0	0
143.3440	16.0000	16.0000	15.2073	15.9289	-0.7927	-0.0711	0.7959	14	0	0	0	0	0
145.5620	16.0000	16.0000	16.0831	16.0116	0.0831	0.0116	0.0839	0	0	0	0	0	0
147.5780	16.0000	16.0000	15.9677	16.0228	-0.0323	0.0228	0.0396	0	0	0	0	0	0
149.8440	16.0000	16.0000	15.8454	16.1044	-0.1546	0.1044	0.1865	0	0	0	0	0	0
152.1410	16.0000	16.0000	15.7512	15.7150	-0.2488	-0.2850	0.3783	6	0	0	0	0	0
154.4370	16.0000	16.0000	15.7757	15.7934	-0.2243	-0.2066	0.3049	0	0	0	0	0	0
156.8120	16.0000	16.0000	16.2931	15.7015	0.2931	-0.2985	0.4183	0	0	0	10	0	0
158.9690	16.0000	16.0000	16.0515	15.9066	0.0515	-0.0934	0.1066	0	0	0	0	0	0
161.0470	16.0000	16.0000	15.9666	15.7565	-0.0334	-0.2435	0.2458	0	0	0	6	0	0
163.3590	16.0000	16.0000	15.8014	16.0415	-0.1986	0.0415	0.2029	0	0	0	0	0	0
165.6870	16.0000	16.0000	15.9345	16.1098	-0.0655	0.1098	0.1278	0	0	0	0	0	0
167.6870	16.0000	16.0000	15.8894	16.0332	-0.1106	0.0332	0.1155	0	0	0	0	0	0
169.9690	16.0000	16.0000	15.8295	15.8762	-0.1705	-0.1238	0.2107	0	0	0	0	0	0
171.9840	16.0000	16.0000	15.9088	15.9182	-0.0912	-0.0818	0.1225	0	0	0	0	0	0
174.2500	16.0000	16.0000	15.8960	15.6642	-0.1040	-0.3358	0.3516	0	0	0	8	0	0
176.3750	16.0000	16.0000	16.1269	16.0105	0.1269	0.0105	0.1273	0	0	0	0	0	0
178.4220	16.0000	16.0000	15.9910	15.8974	-0.0090	-0.1026	0.1030	0	0	0	0	0	0
180.5310	16.0000	16.0000	15.8636	15.7920	-0.1364	-0.2080	0.2488	0	0	0	0	0	0
182.7970	16.0000	16.0000	15.7922	15.7955	-0.2078	-0.2045	0.2916	0	0	0	0	0	0
184.9060	16.0000	16.0000	15.9008	15.8688	-0.0992	-0.1312	0.1645	0	0	0	0	0	0
186.7030	16.0000	16.0000	15.9401	15.7839	-0.0599	-0.2161	0.2243	0	0	0	0	0	0
189.0780	16.0000	16.0000	15.1063	15.7672	-0.8937	-0.2328	0.9235	16	0	0	0	0	0
191.4060	16.0000	16.0000	15.6833	15.4443	-0.3167	-0.5557	0.6396	8	0	0	12	0	0
193.4690	16.0000	16.0000	16.0304	16.1830	0.0304	0.1830	0.1855	0	0	0	0	0	0
195.7810	16.0000	16.0000	15.8272	16.1690	-0.1728	0.1690	0.2417	0	0	0	0	0	0
197.9840	16.0000	16.0000	15.7629	16.0713	-0.2371	0.0713	0.2475	0	0	0	0	0	0
200.2500	16.0000	16.0000	15.3206	15.6730	-0.6794	-0.3270	0.7540	13	0	0	0	0	0
202.4840	16.0000	16.0000	16.1321	15.8246	0.1321	-0.1754	0.2196	0	0	0	0	0	0
204.7030	16.0000	16.0000	16.3166	15.9399	0.3166	-0.0601	0.3223	0	0	0	0	0	0
206.9840	16.0000	16.0000	16.4680	15.5671	0.4680	-0.4329	0.6375	0	0	0	16	0	0
209.2340	16.0000	16.0000	15.7865	16.3115	-0.2135	0.3115	0.3776	0	0	10	0	0	0
211.6250	16.0000	16.0000	16.2010	16.4429	0.2010	0.4429	0.4864	0	6	9	0	0	0
213.8590	16.0000	16.0000	16.1262	16.2020	0.1262	0.2020	0.2382	0	0	0	0	0	0
216.0160	16.0000	16.0000	16.2563	16.2652	0.2563	0.2652	0.3689	0	0	0	0	0	0
218.2030	16.0000	16.0000	16.1989	16.2389	0.1989	0.2389	0.3109	0	0	0	0	0	0
220.3910	16.0000	16.0000	16.3014	16.1893	0.3014	0.1893	0.3560	0	6	0	0	0	0
222.6720	16.0000	16.0000	16.1182	16.1606	0.1182	0.1606	0.1994	0	0	0	0	0	0
224.9220	16.0000	16.0000	16.3165	16.0012	0.3165	0.0012	0.3165	0	0	0	0	0	0
227.1410	16.0000	16.0000	16.2447	15.9361	0.2447	-0.0639	0.2529	0	0	0	0	0	0
229.2030	16.0000	16.0000	16.1945	15.8721	0.1945	-0.1279	0.2328	0	0	0	0	0	0
231.5620	16.0000	16.0000	16.2981	15.7969	0.2981	-0.2031	0.3607	0	0	0	8	0	0
233.7340	16.0000	16.0000	16.0127	16.0803	0.0127	0.0803	0.0813	0	0	0	0	0	0
236.0940	16.0000	16.0000	16.1833	15.6150	0.1833	-0.3850	0.4264	0	0	0	12	0	0
238.2660	16.0000	16.0000	16.0006	15.7973	0.0006	-0.2027	0.2027	0	0	0	0	0	0
240.5160	16.0000	16.0000	15.9037	15.7163	-0.0963	-0.2837	0.2996	0	0	0	7	0	0
242.7030	16.0000	16.0000	16.1184	16.1072	0.1184	0.1072	0.1597	0	0	0	0	0	0
244.9370	16.0000	16.0000	16.3202	15.8758	0.3202	-0.1242	0.3434	0	0	0	6	0	0

	247.1870	16.0000	16.0000	15.8766	15.8890	-0.1234	-0.1110	0.1660	0	0	0	0	0	0
	249.3440	16.0000	16.0000	15.4951	15.8781	-0.5049	-0.1219	0.5194	9	0	0	0	0	0
	251.5160	16.0000	16.0000	16.7735	16.0333	0.7735	0.0333	0.7742	0	13	0	0	0	0
	253.4370	16.0000	16.0000	15.9242	15.8337	-0.0758	-0.1663	0.1827	0	0	0	0	0	0
	256.5940	16.0000	16.0000	15.9455	15.6966	-0.0545	-0.3034	0.3082	0	0	0	8	0	0
	258.9060	16.0000	16.0000	15.9185	15.8326	-0.0815	-0.1674	0.1862	0	0	0	0	0	0
	261.1250	16.0000	16.0000	16.3611	15.9877	0.3611	-0.0123	0.3613	0	6	0	0	0	0
	263.2190	16.0000	16.0000	16.1671	15.8837	0.1671	-0.1163	0.2036	0	0	0	0	0	0
	265.4220	16.0000	16.0000	16.1761	15.9296	0.1761	-0.0704	0.1896	0	0	0	0	0	0
	267.6720	16.0000	16.0000	16.0652	15.4261	0.0652	-0.5739	0.5776	0	0	0	16	0	0
	269.9220	16.0000	16.0000	16.1104	16.2569	0.1104	0.2569	0.2796	0	0	0	0	0	0
	271.9840	16.0000	16.0000	16.1641	16.1987	0.1641	0.1987	0.2577	0	0	0	0	0	0
	274.1410	16.0000	16.0000	16.3522	16.3764	0.3522	0.3764	0.5155	0	8	6	0	0	0
	276.2970	16.0000	16.0000	15.9999	15.9659	-0.0001	-0.0341	0.0341	0	0	0	0	0	0
	278.4220	16.0000	16.0000	15.7449	16.0320	-0.2551	0.0320	0.2571	0	0	0	0	0	0
	280.5000	16.0000	16.0000	16.0009	15.9207	0.0009	-0.0793	0.0793	0	0	0	0	0	0
	282.7340	16.0000	16.0000	16.1889	16.0214	0.1889	0.0214	0.1902	0	0	0	0	0	0
	285.0620	16.0000	16.0000	16.0419	15.8040	0.0419	-0.1960	0.2004	0	0	0	0	0	0
	287.1870	16.0000	16.0000	15.8558	15.6267	-0.1442	-0.3733	0.4001	0	0	0	8	0	0
	289.4690	16.0000	16.0000	16.1000	15.7751	0.1000	-0.2249	0.2461	0	0	0	7	0	0
	291.4530	16.0000	16.0000	16.3000	15.9304	0.3000	-0.0696	0.3080	0	0	0	0	0	0
	293.6560	16.0000	16.0000	16.2503	15.9266	0.2503	-0.0734	0.2608	0	0	0	0	0	0
	296.0160	16.0000	16.0000	15.7464	15.5180	-0.2536	-0.4820	0.5447	0	7	0	11	0	0
	298.2340	16.0000	16.0000	16.0552	16.1202	0.0552	0.1202	0.1323	0	0	0	0	0	0
	300.5000	16.0000	16.0000	16.3202	16.3018	0.3202	0.3018	0.4400	0	7	0	0	0	0
	302.9220	16.0000	16.0000	16.0731	16.5901	0.0731	0.5901	0.5946	0	0	14	0	0	0
	305.0160	16.0000	16.0000	15.9958	16.1562	-0.0042	0.1562	0.1563	0	0	0	0	0	0
	307.2970	16.0000	16.0000	16.3580	16.0906	0.3580	0.0906	0.3693	0	6	0	0	0	0
	309.7340	16.0000	16.0000	16.3586	16.0369	0.3586	0.0369	0.3605	0	6	0	0	0	0
	311.9370	16.0000	16.0000	16.1562	15.9307	0.1562	-0.0693	0.1709	0	0	0	0	0	0
	314.2190	16.0000	16.0000	16.1240	15.7716	0.1240	-0.2284	0.2598	0	0	0	7	0	0
	316.4690	16.0000	16.0000	16.2749	15.7034	0.2749	-0.2966	0.4044	0	0	0	10	0	0
	318.7970	16.0000	16.0000	16.1382	15.7946	0.1382	-0.2054	0.2475	0	0	0	7	0	0
	321.1560	16.0000	16.0000	16.4422	16.0376	0.4422	0.0376	0.4438	0	8	0	0	0	0
	323.1720	16.0000	16.0000	16.1876	15.8435	0.1876	-0.1565	0.2443	0	0	0	0	0	0
	325.4220	16.0000	16.0000	16.0221	15.7081	0.0221	-0.2919	0.2927	0	0	0	8	0	0
	327.6090	16.0000	16.0000	15.8392	16.0285	-0.1608	0.0285	0.1633	0	0	0	0	0	0
	329.7810	16.0000	16.0000	16.0564	16.1534	0.0564	0.1534	0.1634	0	0	0	0	0	0
	331.9690	16.0000	16.0000	16.4197	16.0597	0.4197	0.0597	0.4239	0	7	0	0	0	0

 * ml3_grn.00001135.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T08:17:30.468
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	16.1890	15.9042	0.1890	-0.0958	0.2119	0	0	0	0	0
	8.1720	16.0000	16.0000	15.1857	15.7772	-0.8143	-0.2228	0.8442	16	0	0	0	0
	9.7810	16.0000	16.0000	16.3241	15.7421	0.3241	-0.2579	0.4142	0	0	0	9	0
	11.8590	16.0000	16.0000	16.4525	15.8852	0.4525	-0.1148	0.4669	0	7	0	7	0
	13.7340	16.0000	16.0000	16.0334	15.7232	0.0334	-0.2768	0.2788	0	0	0	8	0
	15.6250	16.0000	16.0000	15.8409	15.5198	-0.1591	-0.4802	0.5059	0	0	0	12	0
	17.5000	16.0000	16.0000	15.9190	15.4142	-0.0810	-0.5858	0.5914	0	0	0	15	0
	19.5780	16.0000	16.0000	16.0525	15.3122	0.0525	-0.6878	0.6898	0	0	0	19	0
	21.2970	16.0000	16.0000	16.0373	15.3388	0.0373	-0.6612	0.6623	0	0	0	18	0
	23.1720	16.0000	16.0000	15.9983	15.1607	-0.0017	-0.8393	0.8393	0	0	0	23	0
	25.0940	16.0000	16.0000	15.8354	15.1602	-0.1646	-0.8398	0.8558	8	0	0	21	0
	27.1090	16.0000	16.0000	15.7162	15.1501	-0.2838	-0.8499	0.8900	9	0	0	20	0
	28.9840	16.0000	16.0000	15.9882	15.1453	-0.0118	-0.8547	0.8548	0	0	0	23	0
	31.0310	16.0000	16.0000	16.2175	15.1267	0.2175	-0.8733	0.9000	0	0	0	25	0
	32.9840	16.0000	16.0000	16.2336	15.0941	0.2336	-0.9059	0.9356	0	0	0	27	0

34.8590	16.0000	16.0000	15.8093	15.0284	-0.1907	-0.9716	0.9901	8	0	0	24	0	0
36.9060	16.0000	16.0000	15.8188	14.7590	-0.1812	-1.2410	1.2542	10	0	0	32	0	0
38.8440	16.0000	16.0000	15.9546	15.2946	-0.0454	-0.7054	0.7068	0	0	0	19	0	0
40.7660	16.0000	16.0000	16.2108	15.3839	0.2108	-0.6161	0.6512	0	0	0	18	0	0
42.4380	16.0000	16.0000	15.9397	16.0114	-0.0603	0.0114	0.0614	0	0	0	0	0	0
44.0630	16.0000	16.0000	15.6657	15.5198	-0.3343	-0.4802	0.5851	8	0	0	10	0	0
45.8910	16.0000	16.0000	15.3032	15.8875	-0.6968	-0.1125	0.7058	12	0	0	0	0	0
47.5940	16.0000	16.0000	16.1874	16.0287	0.1874	0.0287	0.1896	0	0	0	0	0	0
49.3750	16.0000	16.0000	16.5075	15.9450	0.5075	-0.0550	0.5104	0	8	0	0	0	0
51.0630	16.0000	16.0000	15.8916	15.9268	-0.1084	-0.0732	0.1308	0	0	0	0	0	0
52.8440	16.0000	16.0000	16.0974	15.6908	0.0974	-0.3092	0.3242	0	0	0	9	0	0
54.5940	16.0000	16.0000	15.4556	15.7466	-0.5444	-0.2534	0.6005	11	0	0	0	0	0
57.1560	16.0000	16.0000	16.2246	15.8665	0.2246	-0.1335	0.2613	0	0	0	0	0	0
58.9220	16.0000	16.0000	16.2781	15.8392	0.2781	-0.1608	0.3213	0	0	0	7	0	0
60.6560	16.0000	16.0000	15.9780	16.0573	-0.0220	0.0573	0.0614	0	0	0	0	0	0
62.4380	16.0000	16.0000	16.0269	16.0531	0.0269	0.0531	0.0595	0	0	0	0	0	0
64.1720	16.0000	16.0000	15.8515	15.9418	-0.1485	-0.0582	0.1595	0	0	0	0	0	0
66.0310	16.0000	16.0000	16.1562	16.0770	0.1562	0.0770	0.1742	0	0	0	0	0	0
67.7190	16.0000	16.0000	16.1469	15.9789	0.1469	-0.0211	0.1484	0	0	0	0	0	0
69.4690	16.0000	16.0000	16.2083	15.9561	0.2083	-0.0439	0.2128	0	0	0	0	0	0
71.1090	16.0000	16.0000	16.2938	15.9199	0.2938	-0.0801	0.3045	0	0	0	0	0	0
73.0310	16.0000	16.0000	16.2954	15.7705	0.2954	-0.2295	0.3741	0	0	0	8	0	0
74.7190	16.0000	16.0000	15.9628	15.8166	-0.0372	-0.1834	0.1872	0	0	0	0	0	0
76.5310	16.0000	16.0000	16.0008	15.8415	0.0008	-0.1585	0.1585	0	0	0	0	0	0
78.3130	16.0000	16.0000	15.8759	15.8021	-0.1241	-0.1979	0.2336	0	0	0	0	0	0
79.8130	16.0000	16.0000	15.9079	15.8336	-0.0921	-0.1664	0.1902	0	0	0	0	0	0
81.7340	16.0000	16.0000	16.0693	15.7398	0.0693	-0.2602	0.2692	0	0	0	8	0	0
83.6090	16.0000	16.0000	15.2228	15.8409	-0.7772	-0.1591	0.7934	14	0	0	0	0	0
85.3910	16.0000	16.0000	15.7898	15.9129	-0.2102	-0.0871	0.2275	0	0	0	0	0	0
86.9530	16.0000	16.0000	15.8617	16.1304	-0.1383	0.1304	0.1901	0	0	0	0	0	0
88.7340	16.0000	16.0000	15.8207	16.1041	-0.1793	0.1041	0.2073	0	0	0	0	0	0
90.2970	16.0000	16.0000	16.1224	15.8612	0.1224	-0.1388	0.1851	0	0	0	0	0	0
92.1720	16.0000	16.0000	15.4415	15.8884	-0.5585	-0.1116	0.5695	10	0	0	0	0	0
94.0310	16.0000	16.0000	16.0358	15.8456	0.0358	-0.1544	0.1585	0	0	0	0	0	0
95.9060	16.0000	16.0000	16.1239	15.7042	0.1239	-0.2958	0.3207	0	0	0	9	0	0
97.4840	16.0000	16.0000	16.1403	16.0592	0.1403	0.0592	0.1523	0	0	0	0	0	0
99.2500	16.0000	16.0000	16.2736	16.0344	0.2736	0.0344	0.2757	0	0	0	0	0	0
100.8280	16.0000	16.0000	16.1831	16.0531	0.1831	0.0531	0.1906	0	0	0	0	0	0
102.5470	16.0000	16.0000	16.1479	15.8643	0.1479	-0.1357	0.2008	0	0	0	0	0	0
104.4690	16.0000	16.0000	16.8233	15.9594	0.8233	-0.0406	0.8243	0	13	0	8	0	0
106.0470	16.0000	16.0000	15.8623	16.0811	-0.1377	0.0811	0.1598	0	0	0	0	0	0
107.7340	16.0000	16.0000	16.1265	16.0881	0.1265	0.0881	0.1541	0	0	0	0	0	0
109.4690	16.0000	16.0000	15.7619	15.9519	-0.2381	-0.0481	0.2429	0	0	0	0	0	0
111.2030	16.0000	16.0000	15.9455	15.9284	-0.0545	-0.0716	0.0900	0	0	0	0	0	0
112.9380	16.0000	16.0000	16.0578	15.9332	0.0578	-0.0668	0.0883	0	0	0	0	0	0
114.4060	16.0000	16.0000	16.0598	15.9000	0.0598	-0.1000	0.1165	0	0	0	0	0	0
116.0630	16.0000	16.0000	16.2067	15.7549	0.2067	-0.2451	0.3206	0	0	0	8	0	0
117.9060	16.0000	16.0000	15.9482	16.0202	-0.0518	0.0202	0.0556	0	0	0	0	0	0
119.4380	16.0000	16.0000	15.9733	15.8948	-0.0267	-0.1052	0.1086	0	0	0	0	0	0
121.2340	16.0000	16.0000	15.8540	15.8356	-0.1460	-0.1644	0.2199	0	0	0	0	0	0
122.9840	16.0000	16.0000	15.9341	15.6765	-0.0659	-0.3235	0.3302	0	0	0	8	0	0
124.6090	16.0000	16.0000	15.8353	16.0086	-0.1647	0.0086	0.1649	0	0	0	0	0	0
126.2970	16.0000	16.0000	15.5656	15.9396	-0.4344	-0.0604	0.4385	8	0	0	0	0	0
128.1090	16.0000	16.0000	16.3914	15.9312	0.3914	-0.0688	0.3974	0	6	0	0	0	0
129.8440	16.0000	16.0000	15.6967	15.6881	-0.3033	-0.3119	0.4350	7	0	0	0	0	0
131.8910	16.0000	16.0000	15.6681	15.6594	-0.3319	-0.3406	0.4756	8	0	0	6	0	0
133.6720	16.0000	16.0000	15.8748	15.7921	-0.1252	-0.2079	0.2427	0	0	0	0	0	0
135.6090	16.0000	16.0000	16.0381	15.7162	0.0381	-0.2838	0.2863	0	0	0	8	0	0
137.3130	16.0000	16.0000	15.8040	16.1976	-0.1960	0.1976	0.2783	0	0	7	0	0	0
139.0470	16.0000	16.0000	15.5896	15.8880	-0.4104	-0.1120	0.4254	8	0	0	0	0	0
140.7660	16.0000	16.0000	15.4600	15.8969	-0.5400	-0.1031	0.5497	10	0	0	0	0	0
142.6090	16.0000	16.0000	15.9613	16.0266	-0.0387	0.0266	0.0469	0	0	0	0	0	0
144.4380	16.0000	16.0000	16.4960	15.8709	0.4960	-0.1291	0.5125	0	8	0	8	0	0
146.1720	16.0000	16.0000	15.8136	15.7586	-0.1864	-0.2414	0.3050	0	0	0	0	0	0
147.8440	16.0000	16.0000	15.9656	15.7909	-0.0344	-0.2091	0.2119	0	0	0	0	0	0
149.6410	16.0000	16.0000	15.9193	15.3832	-0.0807	-0.6168	0.6220	0	0	0	16	0	0
151.4380	16.0000	16.0000	15.7988	16.1126	-0.2012	0.1126	0.2306	0	0	0	0	0	0
153.1250	16.0000	16.0000	15.8974	16.0269	-0.1026	0.0269	0.1060	0	0	0	0	0	0
154.9060	16.0000	16.0000	16.0487	16.0670	0.0487	0.0670	0.0828	0	0	0	0	0	0
156.6880	16.0000	16.0000	15.9077	16.0044	-0.0923	0.0044	0.0924	0	0	0	0	0	0
158.3590	16.0000	16.0000	15.9304	15.8347	-0.0696	-0.1653	0.1794	0	0	0	0	0	0
160.2030	16.0000	16.0000	15.7834	15.9767	-0.2166	-0.0233	0.2179	0	0	0	0	0	0
161.8910	16.0000	16.0000	16.0383	15.9044	0.0383	-0.0956	0.1030	0	0	0	0	0	0
163.7660	16.0000	16.0000	15.8780	15.7664	-0.1220	-0.2336	0.2635	0	0	0	0	0	0
165.4840	16.0000	16.0000	16.0389	15.7307	0.0389	-0.2693	0.2721	0	0	0	8	0	0
167.1720	16.0000	16.0000	15.9246	16.0691	-0.0754	0.0691	0.1023	0	0	0	0	0	0
168.9690	16.0000	16.0000	15.7991	15.8543	-0.2009	-0.1457	0.2482	0	0	0	0	0	0
170.7190	16.0000	16.0000	15.3440	15.7985	-0.6560	-0.2015	0.6863	12	0	0	0	0	0
172.4840	16.0000	16.0000	16.3027	15.8809	0.3027	-0.1191	0.3252	0	0	0	0	0	0
174.2660	16.0000	16.0000	16.3370	15.9265	0.3370	-0.0735	0.3449	0	0	0	0	0	0
176.0470	16.0000	16.0000	16.4743	15.7824	0.4743	-0.2176	0.5219	0	7	0	10	0	0
177.6250	16.0000	16.0000	15.7669	15.8942	-0.2331	-0.1058	0.2560	0	0	0	0	0	0
179.4220	16.0000	16.0000	15.4245	15.7789	-0.5755	-0.2211	0.6165	11	0	0	0	0	0
181.3910	16.0000	16.0000	15.5429	15.7868	-0.4571	-0.2132	0.5044	9	0	0	0	0	0

	183.1560	16.0000	16.0000	16.7323	16.1327	0.7323	0.1327	0.7442	0	13	0	0	0	0
	184.7500	16.0000	16.0000	15.8439	16.0565	-0.1561	0.0565	0.1660	0	0	0	0	0	0
	186.2660	16.0000	16.0000	15.7960	15.8373	-0.2040	-0.1627	0.2610	0	0	0	0	0	0
	188.0160	16.0000	16.0000	15.4230	15.7193	-0.5770	-0.2807	0.6417	12	0	0	0	0	0
	189.6410	16.0000	16.0000	15.9036	15.6631	-0.0964	-0.3369	0.3504	0	0	0	8	0	0
	191.2810	16.0000	16.0000	15.8295	15.9880	-0.1705	-0.1201	0.1709	0	0	0	0	0	0
	193.1250	16.0000	16.0000	16.2307	16.2020	0.2307	0.2020	0.3066	0	0	0	0	0	0
	194.6880	16.0000	16.0000	15.9347	16.0347	-0.0653	0.0347	0.0739	0	0	0	0	0	0
	196.1560	16.0000	16.0000	15.8564	16.0965	-0.1436	0.0965	0.1730	0	0	0	0	0	0
	198.0780	16.0000	16.0000	15.3284	15.9403	-0.6716	-0.0597	0.6742	12	0	0	0	0	0
	199.9220	16.0000	16.0000	16.5087	16.1010	0.5087	0.1010	0.5186	0	9	0	0	0	0
	201.7030	16.0000	16.0000	16.2013	16.1137	0.2013	0.1137	0.2312	0	0	0	0	0	0
	203.3590	16.0000	16.0000	15.9055	15.9590	-0.0945	-0.0410	0.1030	0	0	0	0	0	0
	204.9060	16.0000	16.0000	15.9042	15.8591	-0.0958	-0.1409	0.1704	0	0	0	0	0	0
	206.6560	16.0000	16.0000	15.9705	15.7644	-0.0295	-0.2356	0.2374	0	0	0	6	0	0
	208.2970	16.0000	16.0000	15.7496	16.0034	-0.2504	0.0034	0.2505	0	0	0	0	0	0
	210.0780	16.0000	16.0000	15.7806	15.9227	-0.2194	-0.0773	0.2326	0	0	0	0	0	0
	211.8130	16.0000	16.0000	16.0400	15.7619	0.0400	-0.2381	0.2414	0	0	0	7	0	0
	213.6880	16.0000	16.0000	15.5612	15.9242	-0.4388	-0.0758	0.4453	8	0	0	0	0	0
	215.4220	16.0000	16.0000	16.1938	16.0979	0.1938	0.0979	0.2172	0	0	0	0	0	0
	217.2660	16.0000	16.0000	16.0364	16.1388	0.0364	0.1388	0.1435	0	0	0	0	0	0
	219.0000	16.0000	16.0000	16.1055	15.9295	0.1055	-0.0705	0.1269	0	0	0	0	0	0
	220.7810	16.0000	16.0000	16.1598	15.8109	0.1598	-0.1891	0.2476	0	0	0	6	0	0
	222.4060	16.0000	16.0000	16.2516	15.9340	0.2516	-0.0660	0.2601	0	0	0	0	0	0
	224.2190	16.0000	16.0000	16.0762	16.0303	0.0762	0.0303	0.0820	0	0	0	0	0	0
	225.7030	16.0000	16.0000	15.9486	15.8057	-0.0514	-0.1943	0.2010	0	0	0	0	0	0
	227.4380	16.0000	16.0000	15.2754	15.8073	-0.7246	-0.1927	0.7497	13	0	0	0	0	0
	229.2970	16.0000	16.0000	16.3182	15.9683	0.3182	-0.0317	0.3198	0	0	0	0	0	0
	231.0630	16.0000	16.0000	16.4812	15.8996	0.4812	-0.1004	0.4916	0	8	0	7	0	0
	232.7500	16.0000	16.0000	16.2570	16.1141	0.2570	0.1141	0.2811	0	0	0	0	0	0
	234.5630	16.0000	16.0000	16.3695	15.8186	0.3695	-0.1814	0.4116	0	0	0	8	0	0
	236.1410	16.0000	16.0000	15.9569	16.0281	-0.0431	0.0281	0.0514	0	0	0	0	0	0
	237.9220	16.0000	16.0000	15.7843	15.9924	-0.2157	-0.0076	0.2158	0	0	0	0	0	0
	239.4840	16.0000	16.0000	16.2069	16.1219	0.2069	0.1219	0.2401	0	0	0	0	0	0
	241.2500	16.0000	16.0000	16.2601	16.0692	0.2601	0.0692	0.2691	0	0	0	0	0	0
	243.2500	16.0000	16.0000	16.3470	16.0188	0.3470	0.0188	0.3475	0	6	0	0	0	0
	245.2030	16.0000	16.0000	15.9902	15.7481	-0.0098	-0.2519	0.2521	0	0	0	7	0	0
	246.9380	16.0000	16.0000	15.9865	16.0220	-0.0135	0.0220	0.0258	0	0	0	0	0	0
	248.8910	16.0000	16.0000	16.2672	16.0308	0.2672	0.0308	0.2689	0	0	0	0	0	0
	250.5000	16.0000	16.0000	16.4261	16.0454	0.4261	0.0454	0.4285	0	7	0	0	0	0
	252.2030	16.0000	16.0000	16.1269	15.8307	0.1269	-0.1693	0.2116	0	0	0	0	0	0
	254.1410	16.0000	16.0000	16.1108	15.7675	0.1108	-0.2325	0.2575	0	0	0	7	0	0
	255.8280	16.0000	16.0000	15.9158	15.9401	-0.0842	-0.0599	0.1034	0	0	0	0	0	0
	257.5160	16.0000	16.0000	16.1989	16.1406	0.1989	0.1406	0.2436	0	0	0	0	0	0
	258.9690	16.0000	16.0000	16.1579	16.0741	0.1579	0.0741	0.1744	0	0	0	0	0	0
	260.6880	16.0000	16.0000	16.3043	15.9682	0.3043	-0.0318	0.3059	0	0	0	0	0	0
	262.4380	16.0000	16.0000	16.3323	16.1061	0.3323	0.1061	0.3489	0	6	0	0	0	0
	264.1250	16.0000	16.0000	16.0953	15.7668	0.0953	-0.2332	0.2519	0	0	0	7	0	0
	265.9840	16.0000	16.0000	15.9937	15.9225	-0.0063	-0.0775	0.0778	0	0	0	0	0	0
	267.8440	16.0000	16.0000	15.9950	15.9273	-0.0050	-0.0727	0.0728	0	0	0	0	0	0
	269.5000	16.0000	16.0000	16.2777	15.8616	0.2777	-0.1384	0.3103	0	0	0	6	0	0
	271.1720	16.0000	16.0000	16.3695	16.0825	0.3695	0.0825	0.3786	0	6	0	0	0	0
	273.0000	16.0000	16.0000	16.0936	15.9155	0.0936	-0.0845	0.1261	0	0	0	0	0	0
	274.5630	16.0000	16.0000	15.7462	16.0585	-0.2538	0.0585	0.2605	0	0	0	0	0	0
	276.3280	16.0000	16.0000	15.7487	15.7465	-0.2513	-0.2535	0.3570	0	0	0	0	0	0
	278.2030	16.0000	16.0000	16.0158	15.7341	0.0158	-0.2659	0.2663	0	0	0	7	0	0
	279.6560	16.0000	16.0000	16.1844	16.1257	0.1844	0.1257	0.2231	0	0	0	0	0	0
	281.2970	16.0000	16.0000	16.3037	16.1504	0.3037	0.1504	0.3389	0	6	0	0	0	0
	282.9840	16.0000	16.0000	15.7532	15.8932	-0.2468	-0.1068	0.2689	0	0	0	0	0	0
	284.7810	16.0000	16.0000	15.8083	15.8308	-0.1917	-0.1692	0.2557	0	0	0	0	0	0
	286.6250	16.0000	16.0000	15.8964	15.7795	-0.1036	-0.2205	0.2437	0	0	0	0	0	0
	288.5160	16.0000	16.0000	16.4170	15.7952	0.4170	-0.2048	0.4646	0	0	0	9	0	0
	290.1560	16.0000	16.0000	16.6425	16.2113	0.6425	0.2113	0.6763	0	12	0	0	0	0
	291.8590	16.0000	16.0000	15.7886	15.9530	-0.2114	-0.0470	0.2166	0	0	0	0	0	0
	293.6250	16.0000	16.0000	15.4837	15.8598	-0.5163	-0.1402	0.5350	9	0	0	0	0	0
	295.3280	16.0000	16.0000	15.9487	15.9767	-0.0513	-0.0233	0.0563	0	0	0	0	0	0
	296.8280	16.0000	16.0000	15.9062	15.8975	-0.0938	-0.1025	0.1390	0	0	0	0	0	0
	298.4530	16.0000	16.0000	16.2989	15.9155	0.2989	-0.0845	0.3106	0	0	0	0	0	0
	300.2030	16.0000	16.0000	16.3083	15.8621	0.3083	-0.1379	0.3377	0	0	0	6	0	0
	301.8750	16.0000	16.0000	16.0421	15.9948	0.0421	-0.0052	0.0424	0	0	0	0	0	0
	303.7340	16.0000	16.0000	15.4782	15.9063	-0.5218	-0.0937	0.5302	9	0	0	0	0	0
	305.5470	16.0000	16.0000	16.3190	16.0721	0.3190	0.0721	0.3271	0	0	0	0	0	0

 * m13_grn.00001136_M_13.FIT *

CCDSoft Tracking Report
 Start Date Time = 2006-02-28T08:22:43.406
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8

123.8120	16.0000	16.0000	15.7640	15.7987	-0.2360	-0.2013	0.3102	0	0	0	0	0	0
125.7500	16.0000	16.0000	15.4094	15.7721	-0.5906	-0.2279	0.6330	12	0	0	0	0	0
127.6250	16.0000	16.0000	16.1004	15.9431	0.1004	-0.0569	0.1154	0	0	0	0	0	0
129.1870	16.0000	16.0000	16.1811	15.8748	0.1811	-0.1252	0.2202	0	0	0	0	0	0
131.0310	16.0000	16.0000	16.1121	15.8310	0.1121	-0.1690	0.2028	0	0	0	0	0	0
132.7650	16.0000	16.0000	16.1669	15.6907	0.1669	-0.3093	0.3515	0	0	0	9	0	0
134.5000	16.0000	16.0000	15.8049	15.6856	-0.1951	-0.3144	0.3700	0	0	0	7	0	0
136.1870	16.0000	16.0000	16.1316	15.7221	0.1316	-0.2779	0.3075	0	0	0	8	0	0
137.9680	16.0000	16.0000	15.9090	15.8103	-0.0910	-0.1897	0.2104	0	0	0	0	0	0
139.5930	16.0000	16.0000	15.9709	15.7801	-0.0291	-0.2199	0.2218	0	0	0	0	0	0
141.3120	16.0000	16.0000	15.9525	15.7935	-0.0475	-0.2065	0.2119	0	0	0	0	0	0
143.0460	16.0000	16.0000	15.9717	15.8008	-0.0283	-0.1992	0.2012	0	0	0	0	0	0
145.0460	16.0000	16.0000	15.5516	15.3694	-0.1822	-0.4484	0.7738	11	0	0	13	0	0
146.8590	16.0000	16.0000	15.7328	15.9985	-0.2672	-0.0015	0.2672	0	0	0	0	0	0
148.8900	16.0000	16.0000	15.4173	16.2748	-0.5827	0.2748	0.6442	8	0	12	0	0	0
150.7960	16.0000	16.0000	16.2927	16.3887	0.2927	0.3887	0.4866	0	7	0	0	0	0
152.6090	16.0000	16.0000	15.7100	16.1904	-0.2900	0.1904	0.3469	0	0	8	0	0	0
154.4210	16.0000	16.0000	15.3179	15.8292	-0.6821	-0.1708	0.7031	12	0	0	0	0	0
156.0780	16.0000	16.0000	15.7355	16.0085	-0.2645	0.0085	0.2646	0	0	0	0	0	0
157.9370	16.0000	16.0000	15.8528	15.8768	-0.1472	-0.1232	0.1919	0	0	0	0	0	0
159.5780	16.0000	16.0000	15.7730	15.8043	-0.2270	-0.1957	0.2997	0	0	0	0	0	0
161.4680	16.0000	16.0000	15.8234	15.6735	-0.1766	-0.3265	0.3712	0	0	0	7	0	0
163.2960	16.0000	16.0000	15.0500	15.4373	-0.9500	-0.5627	1.1041	20	0	0	7	0	0
165.0780	16.0000	16.0000	15.7608	15.5418	-0.2392	-0.4582	0.5169	7	0	0	10	0	0
166.7810	16.0000	16.0000	15.9817	15.8434	-0.0183	-0.1566	0.1576	0	0	0	0	0	0
168.5460	16.0000	16.0000	15.9182	15.7723	-0.0818	-0.2277	0.2419	0	0	0	0	0	0
170.2650	16.0000	16.0000	15.6792	15.5808	-0.3208	-0.4192	0.5279	8	0	0	8	0	0
172.0620	16.0000	16.0000	15.7856	15.9000	-0.2144	-0.1000	0.2365	0	0	0	0	0	0
173.8430	16.0000	16.0000	15.8194	15.7959	-0.1806	-0.2041	0.2725	0	0	0	0	0	0
175.4680	16.0000	16.0000	15.9856	15.8165	-0.0144	-0.1835	0.1841	0	0	0	0	0	0
177.1560	16.0000	16.0000	15.7826	15.7791	-0.2174	-0.2209	0.3100	0	0	0	0	0	0
178.9210	16.0000	16.0000	15.8973	15.6821	-0.1027	-0.3179	0.3341	0	0	0	8	0	0
180.7180	16.0000	16.0000	15.4742	15.9267	-0.5258	-0.0733	0.5308	9	0	0	0	0	0
182.3590	16.0000	16.0000	15.7818	15.8107	-0.2182	-0.1893	0.2888	0	0	0	0	0	0
184.0930	16.0000	16.0000	15.7569	15.8147	-0.2431	-0.1853	0.3057	0	0	0	0	0	0
185.9840	16.0000	16.0000	15.9063	15.8446	-0.0937	-0.1554	0.1814	0	0	0	0	0	0
187.7340	16.0000	16.0000	15.4957	15.8530	-0.5043	-0.1470	0.5253	9	0	0	0	0	0
189.5620	16.0000	16.0000	15.8971	15.7889	-0.1029	-0.2111	0.2349	0	0	0	0	0	0
191.4060	16.0000	16.0000	15.8960	15.6523	-0.1040	-0.3477	0.3629	0	0	0	8	0	0
193.1560	16.0000	16.0000	15.6997	15.9233	-0.3003	-0.0767	0.3099	0	0	0	0	0	0
194.8750	16.0000	16.0000	15.3690	15.7100	-0.6310	-0.2900	0.6945	12	0	0	0	0	0
196.8430	16.0000	16.0000	15.8970	15.7448	-0.1030	-0.2552	0.2752	0	0	0	6	0	0
198.7810	16.0000	16.0000	15.7348	16.0758	-0.2652	0.0758	0.2759	0	0	0	0	0	0
200.7650	16.0000	16.0000	15.0991	15.8096	-0.9009	-0.1904	0.9208	16	0	0	0	0	0
202.2340	16.0000	16.0000	15.7433	15.8007	-0.2567	-0.1993	0.3250	0	0	0	0	0	0
203.9060	16.0000	16.0000	15.5382	15.6632	-0.4618	-0.3368	0.5716	10	0	0	0	0	0
205.4530	16.0000	16.0000	16.0121	15.7886	0.0121	-0.2114	0.2117	0	0	0	0	0	0
207.2340	16.0000	16.0000	16.0410	15.7250	0.0410	-0.2750	0.2781	0	0	0	8	0	0
208.7650	16.0000	16.0000	15.6945	16.0268	-0.3055	0.0268	0.3067	0	0	0	0	0	0
210.7180	16.0000	16.0000	15.2087	15.6421	-0.7913	-0.3579	0.8684	16	0	0	0	0	0
212.2810	16.0000	16.0000	15.7426	15.8840	-0.2574	-0.1160	0.2824	0	0	0	0	0	0
214.0780	16.0000	16.0000	16.0437	15.8429	0.0437	-0.1571	0.1630	0	0	0	0	0	0
215.7500	16.0000	16.0000	15.9165	15.8192	-0.0835	-0.1808	0.1991	0	0	0	0	0	0
217.5780	16.0000	16.0000	16.0938	15.8726	0.0938	-0.1274	0.1582	0	0	0	0	0	0
219.3900	16.0000	16.0000	15.8009	15.4299	-0.1991	-0.5701	0.6038	6	0	0	13	0	0
221.0310	16.0000	16.0000	15.5622	16.1253	-0.4378	0.1253	0.4554	7	0	7	0	0	0
222.7500	16.0000	16.0000	16.3750	16.3389	0.3750	0.3389	0.5055	0	8	0	0	0	0
224.6870	16.0000	16.0000	16.1042	16.2962	0.1042	0.2962	0.3140	0	0	6	0	0	0
226.4060	16.0000	16.0000	15.8824	16.1782	-0.1176	0.1782	0.2135	0	0	0	0	0	0
228.0930	16.0000	16.0000	16.0078	16.1089	0.0078	0.1089	0.1092	0	0	0	0	0	0
229.7340	16.0000	16.0000	15.7714	16.1164	-0.2286	0.1164	0.2565	0	0	0	0	0	0
231.4680	16.0000	16.0000	16.0086	16.1433	0.0086	0.1433	0.1436	0	0	0	0	0	0
233.2030	16.0000	16.0000	15.9401	15.9198	-0.0599	-0.0802	0.1001	0	0	0	0	0	0
234.9370	16.0000	16.0000	16.2229	15.9497	0.2229	-0.0503	0.2285	0	0	0	0	0	0
236.4840	16.0000	16.0000	16.1259	15.9344	0.1259	-0.0656	0.1419	0	0	0	0	0	0
238.1710	16.0000	16.0000	16.1104	15.8303	0.1104	-0.1697	0.2024	0	0	0	0	0	0
239.6870	16.0000	16.0000	16.0416	15.8428	0.0416	-0.1572	0.1626	0	0	0	0	0	0
241.6400	16.0000	16.0000	15.9433	15.7110	-0.0567	-0.2890	0.2945	0	0	0	7	0	0
243.5150	16.0000	16.0000	15.9771	15.7418	-0.0229	-0.2582	0.2592	0	0	0	7	0	0
245.3900	16.0000	16.0000	16.0379	15.5171	0.0379	-0.4829	0.4844	0	0	0	13	0	0
247.0310	16.0000	16.0000	15.5450	15.9568	-0.4550	-0.0432	0.4570	8	0	0	0	0	0
248.8280	16.0000	16.0000	15.8123	15.9807	-0.1877	-0.0193	0.1887	0	0	0	0	0	0
250.6710	16.0000	16.0000	15.4082	15.9223	-0.5918	-0.0777	0.5969	11	0	0	0	0	0
252.4530	16.0000	16.0000	16.1614	16.0399	0.1614	0.0399	0.1662	0	0	0	0	0	0
254.1560	16.0000	16.0000	16.3092	15.9495	0.3092	-0.0505	0.3133	0	0	0	0	0	0
256.0000	16.0000	16.0000	16.3389	16.0471	0.3389	0.0471	0.3422	0	6	0	0	0	0
257.8120	16.0000	16.0000	15.9634	15.4057	-0.0366	-0.5943	0.5954	0	0	0	16	0	0
259.5930	16.0000	16.0000	15.5525	16.2824	-0.4475	0.2824	0.5292	6	0	11	0	0	0
261.3280	16.0000	16.0000	16.1084	16.4279	0.1084	0.4279	0.4414	0	0	10	0	0	0
263.1560	16.0000	16.0000	16.3450	16.6230	0.3450	0.6230	0.7122	0	9	12	0	0	0
264.8280	16.0000	16.0000	16.1423	16.3942	0.1423	0.3942	0.4191	0	0	8	0	0	0
266.7180	16.0000	16.0000	16.2480	16.2427	0.2480	0.2427	0.3470	0	0	0	0	0	0
268.4680	16.0000	16.0000	15.9632	16.1854	-0.0368	0.1854	0.1890	0	0	0	0	0	0
270.3590	16.0000	16.0000	16.1396	16.3551	0.1396	0.3551	0.3816	0	0	8	0	0	0

	272.2650	16.0000	16.0000	16.5596	16.4789	0.5596	0.4789	0.7366	0	12	7	0	0	0
	273.9060	16.0000	16.0000	16.2033	16.0530	0.2033	0.0530	0.2101	0	0	0	0	0	0
	275.8120	16.0000	16.0000	16.1011	15.6676	0.1011	-0.3324	0.3475	0	0	0	10	0	0
	277.5780	16.0000	16.0000	16.0566	15.8595	0.0566	-0.1405	0.1515	0	0	0	0	0	0
	279.2960	16.0000	16.0000	16.4220	15.7945	0.4220	-0.2055	0.4694	0	6	0	9	0	0
	281.2030	16.0000	16.0000	16.7395	15.8711	0.7395	-0.1289	0.7506	0	12	0	9	0	0
	282.9530	16.0000	16.0000	16.0353	15.5969	0.0353	-0.4031	0.4046	0	0	0	11	0	0
	284.5620	16.0000	16.0000	15.9279	15.6559	-0.0721	-0.3441	0.3516	0	0	0	8	0	0
	286.6250	16.0000	16.0000	15.7225	15.5872	-0.2775	-0.4128	0.4974	7	0	0	8	0	0
	288.5150	16.0000	16.0000	15.8829	15.3598	-0.1171	-0.6402	0.6508	0	0	0	16	0	0
	290.2960	16.0000	16.0000	15.7937	16.3019	-0.2063	0.3019	0.3657	0	0	9	0	0	0
	291.8750	16.0000	16.0000	15.8216	15.9621	-0.1784	-0.0379	0.1824	0	0	0	0	0	0
	293.6710	16.0000	16.0000	15.8351	16.3415	-0.1649	0.3415	0.3792	0	0	10	0	0	0
	295.3750	16.0000	16.0000	15.8733	15.8378	-0.1267	-0.1622	0.2058	0	0	0	0	0	0
	297.2340	16.0000	16.0000	15.6882	15.8732	-0.3118	-0.1268	0.3366	6	0	0	0	0	0
	299.1090	16.0000	16.0000	15.7175	15.7876	-0.2825	-0.2124	0.3534	6	0	0	0	0	0
	300.8280	16.0000	16.0000	16.2858	15.9324	0.2858	-0.0676	0.2936	0	0	0	0	0	0
	302.5780	16.0000	16.0000	16.3670	16.0770	0.3670	0.0770	0.3750	0	6	0	0	0	0
	304.3900	16.0000	16.0000	15.7586	15.8281	-0.2414	-0.1719	0.2963	0	0	0	0	0	0
	306.2500	16.0000	16.0000	15.3550	15.6230	-0.6450	-0.3770	0.7471	13	0	0	0	0	0
	307.8590	16.0000	16.0000	15.9265	15.8092	-0.0735	-0.1908	0.2045	0	0	0	0	0	0

 * ml3_grn.00001137.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T08:27:57.234
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	16.3118	13.7126	0.3118	-2.2874	2.3086	7	0	0	50	0
	7.1410	16.0000	16.0000	16.9658	15.1119	0.9658	-0.8881	1.3120	0	11	0	32	0
	8.9530	16.0000	16.0000	15.9224	16.2734	-0.0776	0.2734	0.2842	0	0	8	0	0
	12.2190	16.0000	16.0000	16.0797	16.5775	0.0797	0.5775	0.5830	0	0	14	0	0
	14.0940	16.0000	16.0000	16.4251	16.3160	0.4251	0.3160	0.5297	0	8	0	0	0
	15.8440	16.0000	16.0000	16.2925	16.2456	0.2925	0.2456	0.3820	0	6	0	0	0
	17.3750	16.0000	16.0000	15.9453	16.2816	-0.0547	0.2816	0.2869	0	0	8	0	0
	19.1720	16.0000	16.0000	16.0284	16.1133	0.0284	0.1133	0.1168	0	0	0	0	0
	20.8590	16.0000	16.0000	15.7798	16.1696	-0.2202	0.1696	0.2780	0	0	6	0	0
	22.6560	16.0000	16.0000	15.8786	16.2014	-0.1214	0.2014	0.2351	0	0	6	0	0
	24.2660	16.0000	16.0000	16.1337	16.0580	0.1337	0.0580	0.1457	0	0	0	0	0
	26.0470	16.0000	16.0000	16.2169	15.9244	0.2169	-0.0756	0.2297	0	0	0	0	0
	27.5780	16.0000	16.0000	16.2502	15.9963	0.2502	-0.0037	0.2503	0	0	0	0	0
	29.0000	16.0000	16.0000	16.2781	15.9716	0.2781	-0.0284	0.2795	0	0	0	0	0
	30.6870	16.0000	16.0000	15.9707	15.9270	-0.0293	-0.0730	0.0787	0	0	0	0	0
	32.4530	16.0000	16.0000	16.1603	15.5774	0.1603	-0.4226	0.4520	0	0	0	12	0
	34.2340	16.0000	16.0000	16.1818	15.7012	0.1818	-0.2988	0.3497	0	0	0	9	0
	36.1090	16.0000	16.0000	16.7182	15.7212	0.7182	-0.2788	0.7704	0	10	0	13	0
	38.0310	16.0000	16.0000	16.1974	15.4428	0.1974	-0.5572	0.5911	0	0	0	16	0
	39.6720	16.0000	16.0000	15.6842	15.8444	-0.3158	-0.1556	0.3520	6	0	0	0	0
	41.3120	16.0000	16.0000	15.7431	15.7518	-0.2569	-0.2482	0.3572	0	0	0	0	0
	43.1090	16.0000	16.0000	16.2072	15.8764	0.2072	-0.1236	0.2413	0	0	0	0	0
	44.7340	16.0000	16.0000	16.2525	15.8946	0.2525	-0.1054	0.2737	0	0	0	0	0
	46.4220	16.0000	16.0000	16.2975	15.9806	0.2975	-0.0194	0.2981	0	0	0	0	0
	48.2030	16.0000	16.0000	16.2604	15.7435	0.2604	-0.2565	0.3656	0	0	0	9	0
	49.9060	16.0000	16.0000	15.9519	15.9461	-0.0481	-0.0539	0.0722	0	0	0	0	0
	51.6090	16.0000	16.0000	16.4394	15.9581	0.4394	-0.0419	0.4414	0	7	0	0	0
	53.7190	16.0000	16.0000	16.3818	16.0165	0.3818	0.0165	0.3822	0	6	0	0	0
	55.4370	16.0000	16.0000	16.4552	16.0205	0.4552	0.0205	0.4556	0	8	0	0	0
	57.1250	16.0000	16.0000	15.9808	15.9094	-0.0192	-0.0906	0.0926	0	0	0	0	0
	59.0780	16.0000	16.0000	15.7857	15.6321	-0.2143	-0.3679	0.4258	0	0	0	8	0
	60.9530	16.0000	16.0000	15.6738	15.8115	-0.3262	-0.1885	0.3767	7	0	0	0	0
	62.6870	16.0000	16.0000	15.9668	15.9335	-0.0332	-0.0665	0.0744	0	0	0	0	0

64.5310	16.0000	16.0000	16.1514	15.7482	0.1514	-0.2518	0.2938	0	0	0	8	0	0
66.2190	16.0000	16.0000	15.5818	15.9899	-0.4182	-0.0101	0.4183	7	0	0	0	0	0
67.7970	16.0000	16.0000	16.0360	16.1806	0.0360	0.1806	0.1841	0	0	0	0	0	0
69.5940	16.0000	16.0000	16.1652	16.0699	0.1652	0.0699	0.1794	0	0	0	0	0	0
71.5000	16.0000	16.0000	15.8544	16.1721	-0.1456	0.1721	0.2254	0	0	0	0	0	0
73.3120	16.0000	16.0000	16.0550	16.1256	0.0550	0.1256	0.1371	0	0	0	0	0	0
74.7810	16.0000	16.0000	16.2441	16.0519	0.2441	0.0519	0.2495	0	0	0	0	0	0
76.6250	16.0000	16.0000	15.9584	15.8522	-0.0416	-0.1478	0.1535	0	0	0	0	0	0
78.3120	16.0000	16.0000	15.7404	15.7406	-0.2596	-0.2594	0.3670	6	0	0	0	0	0
80.0940	16.0000	16.0000	15.9588	15.8918	-0.0412	-0.1082	0.1158	0	0	0	0	0	0
81.7500	16.0000	16.0000	16.1222	15.8125	0.1222	-0.1875	0.2239	0	0	0	6	0	0
83.4840	16.0000	16.0000	16.1319	16.0413	0.1319	0.0413	0.1382	0	0	0	0	0	0
85.1870	16.0000	16.0000	16.5019	15.9410	0.5019	0.5019	0.5054	0	8	0	0	0	0
86.9370	16.0000	16.0000	15.9244	15.7506	-0.0756	-0.2494	0.2606	0	0	0	6	0	0
88.6870	16.0000	16.0000	15.7964	16.0237	-0.2036	0.0237	0.2050	0	0	0	0	0	0
90.3440	16.0000	16.0000	15.8649	15.9889	-0.1351	-0.0111	0.1355	0	0	0	0	0	0
91.9690	16.0000	16.0000	16.2878	15.9849	0.2878	-0.0151	0.2882	0	0	0	0	0	0
93.7190	16.0000	16.0000	16.3146	16.0089	0.3146	0.0089	0.3147	0	0	0	0	0	0
95.6410	16.0000	16.0000	16.1462	15.8739	0.1462	-0.1261	0.1931	0	0	0	0	0	0
97.2660	16.0000	16.0000	16.0298	15.7246	0.0298	-0.2754	0.2770	0	0	0	8	0	0
99.0000	16.0000	16.0000	15.9473	16.0465	-0.0527	0.0465	0.0702	0	0	0	0	0	0
100.7030	16.0000	16.0000	16.2516	15.8710	0.2516	-0.1290	0.2828	0	0	0	0	0	0
102.3590	16.0000	16.0000	16.3131	16.1200	0.3131	0.1200	0.3353	0	6	0	0	0	0
104.2810	16.0000	16.0000	16.1824	15.7802	0.1824	-0.2198	0.2856	0	0	0	8	0	0
106.0000	16.0000	16.0000	15.6481	16.1811	-0.3519	0.1811	0.3958	0	0	8	0	0	0
107.8590	16.0000	16.0000	16.0415	16.3256	0.0415	0.3256	0.3283	0	0	0	8	0	0
109.3440	16.0000	16.0000	16.1459	16.1035	0.1459	0.1035	0.1789	0	0	0	0	0	0
110.9370	16.0000	16.0000	16.1841	16.2464	0.1841	0.2464	0.3075	0	0	0	0	0	0
112.5000	16.0000	16.0000	16.3736	16.1721	0.3736	0.1721	0.4113	0	7	0	0	0	0
114.2190	16.0000	16.0000	16.1280	16.0333	0.1280	0.0333	0.1322	0	0	0	0	0	0
116.1720	16.0000	16.0000	16.1105	16.1205	0.1105	0.1205	0.1635	0	0	0	0	0	0
117.9220	16.0000	16.0000	15.9074	15.7982	-0.0926	-0.2018	0.2221	0	0	0	0	0	0
119.7030	16.0000	16.0000	15.9029	15.6521	-0.0971	-0.3479	0.3612	0	0	0	8	0	0
121.5780	16.0000	16.0000	16.0663	15.8273	0.0663	-0.1727	0.1850	0	0	0	0	0	0
123.2340	16.0000	16.0000	16.3471	16.0552	0.3471	0.0552	0.3514	0	6	0	0	0	0
125.1250	16.0000	16.0000	15.9834	15.8152	-0.0166	-0.1848	0.1855	0	0	0	0	0	0
126.9840	16.0000	16.0000	15.6874	15.6468	-0.3126	-0.3532	0.4716	7	0	0	7	0	0
128.7970	16.0000	16.0000	15.7536	15.7714	-0.2464	-0.2286	0.3361	0	0	0	0	0	0
130.7500	16.0000	16.0000	16.2057	15.8298	0.2057	-0.1702	0.2670	0	0	0	6	0	0
132.4840	16.0000	16.0000	16.3700	15.9269	0.3700	0.0731	0.3772	0	0	0	0	0	0
134.0620	16.0000	16.0000	16.1165	15.9086	0.1165	-0.0914	0.1481	0	0	0	0	0	0
135.7810	16.0000	16.0000	15.8833	15.7497	-0.1167	-0.2503	0.2762	0	0	0	0	0	0
137.5620	16.0000	16.0000	16.0151	15.6455	0.0151	-0.3545	0.3548	0	0	0	9	0	0
139.3590	16.0000	16.0000	16.2446	15.9828	0.2446	-0.0172	0.2452	0	0	0	0	0	0
141.0470	16.0000	16.0000	16.1088	16.0848	0.1088	0.0848	0.1379	0	0	0	0	0	0
142.7660	16.0000	16.0000	16.1420	16.0756	0.1420	0.0756	0.1609	0	0	0	0	0	0
144.4840	16.0000	16.0000	15.8720	16.0791	-0.1280	0.0791	0.1505	0	0	0	0	0	0
146.2030	16.0000	16.0000	16.1622	15.8784	0.1622	-0.1216	0.2027	0	0	0	0	0	0
148.1870	16.0000	16.0000	16.4285	15.8125	0.4285	-0.1875	0.4677	0	6	0	8	0	0
150.0000	16.0000	16.0000	16.1721	16.2148	0.1721	0.2148	0.2752	0	0	0	0	0	0
151.4840	16.0000	16.0000	16.0847	16.0545	0.0847	0.0545	0.1007	0	0	0	0	0	0
153.3120	16.0000	16.0000	16.1237	15.9793	0.1237	-0.0207	0.1255	0	0	0	0	0	0
154.8910	16.0000	16.0000	15.7665	15.8605	-0.2335	-0.1395	0.2720	0	0	0	0	0	0
156.4060	16.0000	16.0000	16.0648	15.8939	0.0648	-0.1061	0.1243	0	0	0	0	0	0
158.0620	16.0000	16.0000	16.1327	15.7704	0.1327	-0.2296	0.2652	0	0	0	7	0	0
159.7660	16.0000	16.0000	16.1784	15.9388	0.1784	-0.0612	0.1887	0	0	0	0	0	0
161.5470	16.0000	16.0000	16.0266	15.8025	0.0266	-0.1975	0.1992	0	0	0	0	0	0
163.1720	16.0000	16.0000	15.9800	15.8791	-0.0200	-0.1209	0.1225	0	0	0	0	0	0
164.9060	16.0000	16.0000	15.9550	15.8194	-0.0450	-0.1806	0.1861	0	0	0	0	0	0
166.8750	16.0000	16.0000	15.4703	15.5312	-0.5297	-0.4688	0.7074	12	0	0	8	0	0
168.5620	16.0000	16.0000	15.7913	16.2668	-0.2087	0.2668	0.3387	0	0	8	0	0	0
170.1560	16.0000	16.0000	16.0320	16.1640	0.0320	0.1640	0.1671	0	0	0	0	0	0
172.0940	16.0000	16.0000	15.8931	16.0149	-0.1069	0.0149	0.1079	0	0	0	0	0	0
173.9220	16.0000	16.0000	15.4581	15.7291	-0.5419	-0.2709	0.6059	11	0	0	0	0	0
175.7030	16.0000	16.0000	15.6338	16.0467	-0.3662	0.0467	0.3692	6	0	0	0	0	0
177.4220	16.0000	16.0000	16.2562	15.7689	0.2562	-0.2311	0.3450	0	0	0	8	0	0
179.2970	16.0000	16.0000	16.3304	16.0434	0.3304	0.0434	0.3332	0	0	0	0	0	0
181.1410	16.0000	16.0000	16.0310	16.1601	0.0310	0.1601	0.1630	0	0	0	0	0	0
183.0310	16.0000	16.0000	15.7501	15.7139	-0.2499	-0.2861	0.3798	6	0	0	0	0	0
184.7190	16.0000	16.0000	15.8777	15.7120	-0.1223	-0.2880	0.3129	0	0	0	7	0	0
186.5310	16.0000	16.0000	16.2277	15.9746	0.2277	-0.0254	0.2291	0	0	0	0	0	0
188.4840	16.0000	16.0000	16.4342	15.9397	0.4342	-0.0603	0.4384	0	7	0	0	0	0
190.3750	16.0000	16.0000	15.9161	15.8400	-0.0839	-0.1600	0.1806	0	0	0	0	0	0
191.9690	16.0000	16.0000	15.8136	15.8355	-0.1864	-0.1645	0.2486	0	0	0	0	0	0
193.8440	16.0000	16.0000	15.8459	15.7758	-0.1541	-0.2242	0.2720	0	0	0	0	0	0
195.7500	16.0000	16.0000	16.0384	15.4258	0.0384	-0.5742	0.5754	0	0	0	16	0	0
197.6090	16.0000	16.0000	15.9519	16.3591	-0.0481	0.3591	0.3623	0	0	9	0	0	0
199.4060	16.0000	16.0000	16.0403	16.3354	0.0403	0.3354	0.3378	0	0	8	0	0	0
201.2660	16.0000	16.0000	16.0429	16.1958	0.0429	0.1958	0.2004	0	0	0	0	0	0
202.8910	16.0000	16.0000	15.9769	15.9878	-0.0231	-0.0122	0.0261	0	0	0	0	0	0
204.5780	16.0000	16.0000	15.9047	16.0755	-0.0953	0.0755	0.1215	0	0	0	0	0	0
206.3590	16.0000	16.0000	15.9926	15.9057	-0.0074	-0.0943	0.0946	0	0	0	0	0	0
207.9840	16.0000	16.0000	15.9052	15.9625	-0.0948	-0.0375	0.1020	0	0	0	0	0	0
209.5310	16.0000	16.0000	15.8205	15.9193	-0.1795	-0.0807	0.1968	0	0	0	0	0	0

	211.1250	16.0000	16.0000	15.8163	15.8426	-0.1837	-0.1574	0.2419	0	0	0	0	0	0
	212.7030	16.0000	16.0000	15.7722	15.8729	-0.2278	-0.1271	0.2609	0	0	0	0	0	0
	214.4690	16.0000	16.0000	15.7535	15.6971	-0.2465	-0.3029	0.3906	6	0	0	6	0	0
	216.0470	16.0000	16.0000	15.9081	15.7655	-0.0919	-0.2345	0.2519	0	0	0	0	0	0
	217.6250	16.0000	16.0000	16.1767	15.8801	0.1767	-0.1199	0.2136	0	0	0	0	0	0
	219.3590	16.0000	16.0000	16.0624	15.8512	0.0624	-0.1488	0.1614	0	0	0	0	0	0
	220.9690	16.0000	16.0000	16.0742	15.6750	0.0742	-0.3250	0.3334	0	0	0	9	0	0
	222.7340	16.0000	16.0000	15.6234	15.4602	-0.3766	-0.5398	0.6582	9	0	0	11	0	0
	224.5000	16.0000	16.0000	15.6799	15.9423	-0.3201	-0.0577	0.3252	0	0	0	0	0	0
	226.0160	16.0000	16.0000	15.9536	15.8706	-0.0464	-0.1294	0.1375	0	0	0	0	0	0
	227.9530	16.0000	16.0000	16.2764	15.7595	0.2764	-0.2405	0.3664	0	0	0	8	0	0
	229.4370	16.0000	16.0000	15.8949	16.0939	-0.1051	0.0939	0.1410	0	0	0	0	0	0
	231.1560	16.0000	16.0000	15.6372	15.9268	-0.3628	-0.0732	0.3701	7	0	0	0	0	0
	233.0160	16.0000	16.0000	15.8952	16.1884	-0.1048	0.1884	0.2156	0	0	0	0	0	0
	234.6410	16.0000	16.0000	16.0699	16.1563	0.0699	0.1563	0.1713	0	0	0	0	0	0
	236.6090	16.0000	16.0000	16.3977	15.9061	0.3977	-0.0939	0.4086	0	6	0	6	0	0
	238.5310	16.0000	16.0000	15.8308	16.2629	-0.1692	0.2629	0.3126	0	0	0	8	0	0
	240.2500	16.0000	16.0000	15.5887	16.1019	-0.4113	0.1019	0.4237	6	0	6	0	0	0
	242.1090	16.0000	16.0000	16.0190	16.0899	0.0190	0.0899	0.0919	0	0	0	0	0	0
	243.7340	16.0000	16.0000	16.1201	16.1570	0.1201	0.1570	0.1976	0	0	0	0	0	0
	245.3590	16.0000	16.0000	16.2141	16.0407	0.2141	0.0407	0.2180	0	0	0	0	0	0
	247.1410	16.0000	16.0000	16.5694	15.8236	0.5694	-0.1764	0.5961	0	8	0	9	0	0
	248.7340	16.0000	16.0000	15.9570	15.7796	-0.0430	-0.2204	0.2246	0	0	0	0	0	0
	250.3280	16.0000	16.0000	15.8538	15.6787	-0.1462	-0.3213	0.3530	0	0	0	7	0	0
	252.1250	16.0000	16.0000	15.9551	15.6927	-0.0449	-0.3073	0.3106	0	0	0	8	0	0
	253.9690	16.0000	16.0000	15.5672	15.9143	-0.4328	-0.0857	0.4411	8	0	0	0	0	0
	255.6720	16.0000	16.0000	16.1621	16.0402	0.1621	0.0402	0.1671	0	0	0	0	0	0
	257.2500	16.0000	16.0000	15.9667	16.1756	-0.0333	0.1756	0.1787	0	0	0	0	0	0
	258.9530	16.0000	16.0000	16.0808	16.0829	0.0808	0.0829	0.1158	0	0	0	0	0	0
	260.5940	16.0000	16.0000	15.8728	15.8091	-0.1272	-0.1909	0.2294	0	0	0	0	0	0
	262.2340	16.0000	16.0000	15.9682	15.8685	-0.0318	-0.1315	0.1353	0	0	0	0	0	0
	263.8590	16.0000	16.0000	15.9609	16.0802	-0.0391	0.0802	0.0892	0	0	0	0	0	0
	265.7190	16.0000	16.0000	16.1381	15.8250	0.1381	-0.1750	0.2229	0	0	0	6	0	0
	267.7030	16.0000	16.0000	16.0289	15.9218	0.0289	-0.0782	0.0834	0	0	0	0	0	0
	269.5940	16.0000	16.0000	15.4298	15.9258	-0.5702	-0.0742	0.5751	10	0	0	0	0	0
	271.3750	16.0000	16.0000	15.8148	15.7719	-0.1852	-0.2281	0.2938	0	0	0	0	0	0
	273.1250	16.0000	16.0000	15.8206	15.7728	-0.1794	-0.2272	0.2895	0	0	0	0	0	0
	275.1090	16.0000	16.0000	15.9444	15.4087	-0.0556	-0.5913	0.5939	0	0	0	16	0	0
	276.7970	16.0000	16.0000	15.7060	16.2432	-0.2940	0.2432	0.3816	0	0	8	0	0	0
	278.2810	16.0000	16.0000	15.4433	15.9983	-0.5567	-0.0017	0.5567	9	0	0	0	0	0
	280.0000	16.0000	16.0000	15.8715	16.0956	-0.1285	0.0956	0.1602	0	0	0	0	0	0
	282.0160	16.0000	16.0000	15.9435	16.0549	-0.0565	0.0549	0.0788	0	0	0	0	0	0
	284.4220	16.0000	16.0000	15.9281	16.0275	-0.0719	0.0275	0.0770	0	0	0	0	0	0
	286.9530	16.0000	16.0000	15.9389	15.8733	-0.0611	-0.1267	0.1406	0	0	0	0	0	0
	289.1410	16.0000	16.0000	15.8721	15.8491	-0.1279	-0.1509	0.1978	0	0	0	0	0	0
	290.9530	16.0000	16.0000	15.9353	15.8221	-0.0647	-0.1779	0.1893	0	0	0	0	0	0
	292.5160	16.0000	16.0000	15.9241	15.7127	-0.0759	-0.2873	0.2972	0	0	0	7	0	0
	294.1720	16.0000	16.0000	16.0931	15.8007	0.0931	-0.1993	0.2199	0	0	0	6	0	0
	295.9840	16.0000	16.0000	15.8920	15.9325	-0.1080	-0.0675	0.1273	0	0	0	0	0	0
	297.5940	16.0000	16.0000	15.8634	15.8188	-0.1366	-0.1812	0.2269	0	0	0	0	0	0
	299.1720	16.0000	16.0000	15.7657	15.8591	-0.2343	-0.1409	0.2734	0	0	0	0	0	0
	300.7810	16.0000	16.0000	16.0543	15.8598	0.0543	-0.1402	0.1503	0	0	0	0	0	0
	302.6410	16.0000	16.0000	16.0379	15.7435	0.0379	-0.2565	0.2593	0	0	0	7	0	0
	304.4060	16.0000	16.0000	16.1712	15.9997	0.1712	-0.0003	0.1712	0	0	0	0	0	0
	306.2970	16.0000	16.0000	16.0313	15.9678	0.0313	-0.0322	0.0450	0	0	0	0	0	0
	307.9690	16.0000	16.0000	15.9261	15.8347	-0.0739	-0.1653	0.1811	0	0	0	0	0	0
	309.8280	16.0000	16.0000	15.9909	15.6791	-0.0091	-0.3209	0.3211	0	0	0	8	0	0

* ml3_grn.00001138.M_13.FIT *

CCDSoft Tracking Report
Start Date Time = 2006-02-28T08:33:12.828
Camera = Imager's built-in autoguider
X Axis = Enabled
Y Axis = Enabled
ExposureTime = 1.00
Aggressiveness Factor = 8
Calibration Time X = 10.00
Calibration Time Y = 10.00
Calibration declination = -0.66
Declination now = 25.99
Minimum Move = 0.06
Maximum Move = 0.50
Backlash X = 0.00
Backlash Y = 0.00
Delay After Move = 0.00
Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000

YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
0.0000	16.0000	16.0000	17.8505	15.8045	1.8505	-0.1955	1.8608	0	30	0	21	0	0	0	0
6.5630	16.0000	16.0000	16.7734	16.0900	0.7734	-0.0900	0.7786	0	13	0	0	0	0	0	0
8.3280	16.0000	16.0000	16.0303	16.0867	0.0303	-0.0867	0.0918	0	0	0	0	0	0	0	0
11.8750	16.0000	16.0000	15.6436	15.9030	-0.3564	-0.0970	0.3694	7	0	0	0	0	0	0	0
13.9060	16.0000	16.0000	15.9065	15.7410	-0.0935	-0.2590	0.2754	0	0	0	6	0	0	0	0
15.8910	16.0000	16.0000	16.1600	16.0626	0.1600	0.0626	0.1718	0	0	0	0	0	0	0	0
17.5780	16.0000	16.0000	15.9909	16.0741	-0.0091	0.0741	0.0746	0	0	0	0	0	0	0	0
19.2660	16.0000	16.0000	15.7375	16.0269	-0.2625	0.0269	0.2639	0	0	0	0	0	0	0	0
20.9220	16.0000	16.0000	15.6579	15.9016	-0.3421	-0.0984	0.3560	6	0	0	0	0	0	0	0
22.6880	16.0000	16.0000	16.1418	15.9565	0.1418	-0.0435	0.1483	0	0	0	0	0	0	0	0
24.6100	16.0000	16.0000	16.4642	15.9520	0.4642	-0.0480	0.4666	0	8	0	0	0	0	0	0
26.2030	16.0000	16.0000	16.0519	15.8048	0.0519	-0.1952	0.2019	0	0	0	0	0	0	0	0
27.9850	16.0000	16.0000	16.0048	15.8054	0.0048	-0.1946	0.1947	0	0	0	0	0	0	0	0
29.7350	16.0000	16.0000	15.8274	15.6231	-0.1726	-0.3769	0.4146	0	0	0	8	0	0	0	0
31.4690	16.0000	16.0000	15.8942	15.8077	-0.1058	-0.1923	0.2195	0	0	0	0	0	0	0	0
33.0940	16.0000	16.0000	15.8778	15.8448	-0.1222	-0.1552	0.1975	0	0	0	0	0	0	0	0
34.9220	16.0000	16.0000	15.9628	15.6411	-0.0372	-0.3589	0.3608	0	0	0	0	9	0	0	0
36.6410	16.0000	16.0000	15.5013	15.9489	-0.4987	-0.0511	0.5013	8	0	0	0	0	0	0	0
38.2660	16.0000	16.0000	16.0967	15.9640	0.0967	-0.0360	0.1032	0	0	0	0	0	0	0	0
40.0000	16.0000	16.0000	15.4751	15.8593	-0.5249	-0.1407	0.5434	10	0	0	0	0	0	0	0
41.7810	16.0000	16.0000	16.0315	15.9075	0.0315	-0.0925	0.0977	0	0	0	0	0	0	0	0
43.6100	16.0000	16.0000	15.9943	15.7217	-0.0057	-0.2783	0.2783	0	0	0	8	0	0	0	0
45.5160	16.0000	16.0000	15.9137	16.3517	-0.0863	0.3517	0.3622	0	0	0	9	0	0	0	0
47.2810	16.0000	16.0000	15.8458	16.2394	-0.1542	0.2394	0.2847	0	0	0	8	0	0	0	0
49.2660	16.0000	16.0000	15.3967	16.1111	-0.6033	0.1111	0.6135	10	0	8	0	0	0	0	0
50.9380	16.0000	16.0000	15.4257	15.9769	-0.5743	-0.0231	0.5747	10	0	0	0	0	0	0	0
52.6250	16.0000	16.0000	16.0352	16.2464	0.0352	0.2464	0.2489	0	0	6	0	0	0	0	0
54.2500	16.0000	16.0000	16.0281	16.1267	0.0281	0.1267	0.1298	0	0	0	0	0	0	0	0
55.8910	16.0000	16.0000	16.0154	16.0587	0.0154	0.0587	0.0607	0	0	0	0	0	0	0	0
57.5780	16.0000	16.0000	15.8961	15.8173	-0.1039	-0.1827	0.2102	0	0	0	0	0	0	0	0
59.5630	16.0000	16.0000	15.4567	15.6204	-0.5433	-0.3796	0.6628	12	0	0	0	0	0	0	0
61.1720	16.0000	16.0000	16.0204	15.8348	0.0204	-0.1652	0.1664	0	0	0	0	0	0	0	0
62.9530	16.0000	16.0000	16.4274	15.8798	0.4274	-0.1202	0.4439	0	6	0	7	0	0	0	0
64.6560	16.0000	16.0000	15.8061	16.0984	-0.1939	0.0984	0.2174	0	0	0	0	0	0	0	0
66.5000	16.0000	16.0000	15.8794	15.5974	-0.1206	-0.4026	0.4203	0	0	0	10	0	0	0	0
68.3130	16.0000	16.0000	15.4123	15.7585	-0.5877	-0.2415	0.6354	12	0	0	0	0	0	0	0
69.9690	16.0000	16.0000	15.9046	15.6734	-0.0954	-0.3266	0.3402	0	0	0	8	0	0	0	0
71.7500	16.0000	16.0000	16.3051	15.8239	0.3051	-0.1761	0.3523	0	0	0	7	0	0	0	0
73.3750	16.0000	16.0000	16.1977	15.7988	0.1977	-0.2012	0.2820	0	0	0	0	7	0	0	0
75.1720	16.0000	16.0000	15.3697	16.1890	-0.6303	0.1890	0.6580	10	0	10	0	0	0	0	0
76.7500	16.0000	16.0000	15.8473	16.0185	-0.1527	0.0185	0.1539	0	0	0	0	0	0	0	0
78.4380	16.0000	16.0000	16.2007	15.9121	0.2007	-0.0879	0.2191	0	0	0	0	0	0	0	0
79.9850	16.0000	16.0000	16.2125	16.0295	0.2125	0.0295	0.2146	0	0	0	0	0	0	0	0
81.6410	16.0000	16.0000	16.2269	15.9253	0.2269	-0.0747	0.2389	0	0	0	0	0	0	0	0
83.4220	16.0000	16.0000	16.2161	16.1838	0.2161	0.1838	0.2837	0	0	0	0	0	0	0	0
85.2030	16.0000	16.0000	16.1942	16.0222	0.1942	0.0222	0.1955	0	0	0	0	0	0	0	0
86.8910	16.0000	16.0000	16.0540	15.8406	0.0540	-0.1594	0.1683	0	0	0	0	0	0	0	0
88.6410	16.0000	16.0000	15.9803	15.6137	-0.0197	-0.3863	0.3868	0	0	0	10	0	0	0	0
90.3750	16.0000	16.0000	15.8644	15.5509	-0.1356	-0.4491	0.4691	0	0	0	0	0	0	0	0
92.2660	16.0000	16.0000	15.9710	15.8808	-0.0290	-0.1192	0.1227	0	0	0	0	11	0	0	0
93.7350	16.0000	16.0000	15.8101	15.8349	-0.1899	-0.1651	0.2517	0	0	0	0	0	0	0	0
95.4850	16.0000	16.0000	15.8022	15.6929	-0.1978	-0.3071	0.3653	0	0	0	6	0	0	0	0
97.5310	16.0000	16.0000	15.0781	15.9134	-0.9219	-0.0866	0.9260	16	0	6	0	0	0	0	0
99.6720	16.0000	16.0000	15.2021	15.8573	-0.7979	-0.1427	0.8105	15	0	0	0	0	0	0	0
101.3750	16.0000	16.0000	16.4378	16.2039	0.4378	0.2039	0.4830	0	8	0	0	0	0	0	0
103.0940	16.0000	16.0000	16.0278	16.2595	0.0278	0.2595	0.2610	0	0	6	0	0	0	0	0
105.0160	16.0000	16.0000	16.0381	16.0611	0.0381	0.0611	0.0720	0	0	0	0	0	0	0	0
106.7970	16.0000	16.0000	15.5001	15.8204	-0.4999	-0.1796	0.5312	9	0	0	0	0	0	0	0
108.2810	16.0000	16.0000	15.7820	15.8955	-0.2180	-0.1045	0.2418	0	0	0	0	0	0	0	0
110.0160	16.0000	16.0000	16.1364	16.0917	0.1364	0.0917	0.1644	0	0	0	0	0	0	0	0
111.6410	16.0000	16.0000	16.2568	15.7883	0.2568	-0.2117	0.3328	0	0	0	8	0	0	0	0
113.4850	16.0000	16.0000	15.9664	15.7130	-0.0336	-0.2870	0.2890	0	0	0	8	0	0	0	0
115.2970	16.0000	16.0000	15.7439	15.8951	-0.2561	-0.1049	0.2768	0	0	0	0	0	0	0	0
117.0940	16.0000	16.0000	15.4333	15.9956	-0.5667	-0.0044	0.5667	10	0	0	0	0	0	0	0
118.9380	16.0000	16.0000	16.1988	15.8474	0.1988	-0.1526	0.2506	0	0	0	0	0	0	0	0
120.7500	16.0000	16.0000	16.3329	15.8924	0.3329	-0.1076	0.3499	0	0	0	0	0	0	0	0
122.6720	16.0000	16.0000	16.4766	15.7985	0.4766	-0.2015	0.5174	0	7	0	9	0	0	0	0
124.3440	16.0000	16.0000	16.0467	16.1281	0.0467	0.1281	0.1363	0	0	0	0	0	0	0	0
126.1250	16.0000	16.0000	16.0809	15.9321	0.0809	-0.0679	0.1056	0	0	0	0	0	0	0	0
128.1250	16.0000	16.0000	15.8616	16.1879	-0.1384	0.1879	0.2333	0	0	6	0	0	0	0	0
129.7500	16.0000	16.0000	15.9799	15.9312	-0.0201	-0.0688	0.0717	0	0	0	0	0	0	0	0
131.5940	16.0000	16.0000	16.1755	15.6890	0.1755	-0.3110	0.3571	0	0	0	10	0	0	0	0
133.3600	16.0000	16.0000	15.9843	15.9886	-0.0157	-0.0114	0.0194	0	0	0	0	0	0	0	0
135.0470	16.0000	16.0000	15.8855	16.1091	-0.1145	0.1091	0.1582	0	0	0	0	0	0	0	0
136.9850	16.0000	16.0000	15.5661	15.6837	-0.4339	-0.3163	0.5370	9	0	0	0	0	0	0	0
138.7350	16.0000	16.0000	15.9255	16.0230	-0.0745	0.0230	0.0780	0	0	0	0	0	0	0	0
140.6410	16.0000	16.0000	16.1595	15.9129	0.1595	-0.0871	0.1817	0	0	0	0	0	0	0	0
142.5000	16.0000	16.0000	16.0264	15.4670	0.0264	-0.5330	0.5336	0	0	0	15	0	0	0	0
144.3130	16.0000	16.0000	15.2967	16.2854	-0.7033	0.2854	0.7590	11	0	13	0	0	0	0	0
146.2350	16.0000	16.0000	15.4078	16.1934	-0.5922	0.1934	0.6230	9	0	10	0	0	0	0	0
148.1100	16.0000	16.0000	15.9703	16.3372	-0.0297	0.3372	0.3385	0	0	8	0	0	0	0	0

150.0470	16.0000	16.0000	16.0959	16.3097	0.0959	0.3097	0.3242	0	0	7	0	0	0
151.8750	16.0000	16.0000	15.9985	16.5997	-0.0015	0.5997	0.5997	0	0	15	0	0	0
153.6560	16.0000	16.0000	15.5405	15.8127	-0.4595	-0.1873	0.4962	8	0	0	0	0	0
155.2810	16.0000	16.0000	16.1987	15.9474	0.1987	-0.0526	0.2056	0	0	0	0	0	0
157.0160	16.0000	16.0000	16.0150	15.9916	0.0150	-0.0084	0.0173	0	0	0	0	0	0
158.6250	16.0000	16.0000	16.2436	16.0316	0.2436	0.0316	0.2456	0	0	0	0	0	0
160.3750	16.0000	16.0000	16.1443	16.1340	0.1443	0.1340	0.1969	0	0	0	0	0	0
162.1250	16.0000	16.0000	15.9653	15.8964	-0.0347	-0.1036	0.1093	0	0	0	0	0	0
163.9850	16.0000	16.0000	15.5800	15.7915	-0.4200	-0.2085	0.4689	8	0	0	0	0	0
165.8280	16.0000	16.0000	16.3751	15.8655	0.3751	-0.1345	0.3985	0	0	0	7	0	0
167.7190	16.0000	16.0000	16.4518	15.9307	0.4518	-0.0693	0.4571	0	7	0	0	0	0
169.3750	16.0000	16.0000	16.3183	15.7786	0.3183	-0.2214	0.3877	0	0	0	8	0	0
171.2810	16.0000	16.0000	16.2258	15.6137	0.2258	-0.3863	0.4474	0	0	0	0	12	0
173.1410	16.0000	16.0000	16.0671	15.3248	0.0671	-0.6752	0.6785	0	0	0	0	19	0
175.1250	16.0000	16.0000	16.1206	15.2843	0.1206	-0.7157	0.7258	0	0	0	0	20	0
176.8130	16.0000	16.0000	15.9197	16.2578	-0.0803	0.2578	0.2700	0	0	7	0	0	0
178.5940	16.0000	16.0000	16.0199	16.2709	0.0199	0.2709	0.2717	0	0	0	0	0	0
180.2810	16.0000	16.0000	15.7660	16.3272	-0.2340	0.3272	0.4022	0	0	10	0	0	0
182.0630	16.0000	16.0000	15.8903	16.0363	-0.1097	0.0363	0.1155	0	0	0	0	0	0
183.8750	16.0000	16.0000	15.8817	15.7236	-0.1183	-0.2764	0.3006	0	0	0	6	0	0
185.5630	16.0000	16.0000	15.9418	15.8801	-0.0582	-0.1199	0.1333	0	0	0	0	0	0
187.4220	16.0000	16.0000	15.9417	15.7271	-0.0583	-0.2729	0.2791	0	0	0	0	0	0
189.2030	16.0000	16.0000	16.1607	15.8202	0.1607	-0.1798	0.2411	0	0	0	6	0	0
191.1100	16.0000	16.0000	16.0187	15.6381	0.0187	-0.3619	0.3624	0	0	0	10	0	0
193.0470	16.0000	16.0000	15.2731	15.7588	-0.7269	-0.2412	0.7658	14	0	0	0	0	0
194.7810	16.0000	16.0000	15.5438	15.8648	-0.4562	-0.1352	0.4758	8	0	0	0	0	0
196.5310	16.0000	16.0000	16.3876	15.9939	0.3876	-0.0061	0.3877	0	6	0	0	0	0
198.1560	16.0000	16.0000	16.1303	16.1980	0.1303	0.1980	0.2370	0	0	0	0	0	0
199.6410	16.0000	16.0000	16.3156	15.9925	0.3156	-0.0075	0.3157	0	0	0	0	0	0
201.4530	16.0000	16.0000	15.9058	15.8344	-0.0942	-0.1656	0.1656	0	0	0	0	0	0
203.3910	16.0000	16.0000	16.1418	15.5043	0.1418	-0.4957	0.5156	0	0	0	0	15	0
205.1880	16.0000	16.0000	16.0995	16.5517	0.0995	0.5517	0.5606	0	0	13	0	0	0
207.2660	16.0000	16.0000	16.3626	16.7647	0.3626	0.7647	0.8463	0	10	0	16	0	0
208.9530	16.0000	16.0000	15.8729	16.2601	-0.1271	0.2601	0.2895	0	0	0	8	0	0
210.6560	16.0000	16.0000	15.8762	16.0032	-0.1238	0.0032	0.1239	0	0	0	0	0	0
212.3910	16.0000	16.0000	15.8831	16.1205	-0.1169	0.1205	0.1679	0	0	0	0	0	0
214.1250	16.0000	16.0000	16.2497	15.9603	0.2497	-0.0397	0.2528	0	0	0	0	0	0
215.9690	16.0000	16.0000	16.5063	15.9353	0.5063	-0.0647	0.5104	0	8	0	0	0	0
217.7190	16.0000	16.0000	16.0150	16.0224	0.0150	0.0224	0.0269	0	0	0	0	0	0
219.3280	16.0000	16.0000	16.0030	15.8949	0.0030	-0.1051	0.1052	0	0	0	0	0	0
221.0780	16.0000	16.0000	15.9637	15.8103	-0.0363	-0.1897	0.1931	0	0	0	0	0	0
222.8600	16.0000	16.0000	16.1805	15.7325	0.1805	-0.2675	0.3227	0	0	0	8	0	0
224.3280	16.0000	16.0000	16.2557	15.9516	0.2557	-0.0484	0.2602	0	0	0	0	0	0
226.0780	16.0000	16.0000	16.2122	15.6939	0.2122	-0.3061	0.3724	0	0	0	10	0	0
228.0160	16.0000	16.0000	16.3392	15.8561	0.3392	-0.1439	0.3684	0	0	0	7	0	0
229.7030	16.0000	16.0000	16.0194	15.6565	0.0194	-0.3435	0.3440	0	0	0	9	0	0
231.4530	16.0000	16.0000	15.8836	15.8957	-0.1164	-0.1043	0.1563	0	0	0	0	0	0
233.2970	16.0000	16.0000	16.0109	15.8913	0.0109	-0.1087	0.1092	0	0	0	0	0	0
235.0470	16.0000	16.0000	16.0126	15.8408	0.0126	-0.1592	0.1597	0	0	0	0	0	0
236.7810	16.0000	16.0000	16.2582	15.7827	0.2582	-0.2173	0.3375	0	0	0	0	0	0
238.5780	16.0000	16.0000	16.3419	15.8042	0.3419	-0.1958	0.3940	0	0	0	8	0	0
240.1250	16.0000	16.0000	15.8837	16.0899	-0.1163	0.0899	0.1470	0	0	0	0	0	0
241.8280	16.0000	16.0000	15.9000	15.8095	-0.1000	-0.1905	0.2152	0	0	0	0	0	0
243.5160	16.0000	16.0000	16.0866	16.1087	0.0866	0.1087	0.1390	0	0	0	0	0	0
245.3600	16.0000	16.0000	16.5089	16.1006	0.5089	0.1006	0.5188	0	9	0	0	0	0
247.0940	16.0000	16.0000	16.1512	15.7595	0.1512	-0.2405	0.2841	0	0	0	8	0	0
248.7500	16.0000	16.0000	15.5482	16.2581	-0.4518	0.2581	0.5204	6	0	11	0	0	0
250.5310	16.0000	16.0000	15.9354	16.1537	-0.0646	0.1537	0.1668	0	0	0	0	0	0
252.1100	16.0000	16.0000	15.9636	16.2163	-0.0364	0.2163	0.2193	0	0	0	0	0	0
254.0000	16.0000	16.0000	16.2242	16.4605	0.2242	0.4605	0.5122	0	6	9	0	0	0
255.5310	16.0000	16.0000	16.3432	15.9869	0.3432	-0.0131	0.3434	0	0	0	0	0	0
256.9850	16.0000	16.0000	16.3569	15.9469	0.3569	-0.0531	0.3608	0	0	0	0	0	0
258.5310	16.0000	16.0000	15.9613	16.0124	-0.0387	0.0124	0.0406	0	0	0	0	0	0
260.1880	16.0000	16.0000	16.1746	15.9198	0.1746	-0.0802	0.1921	0	0	0	0	0	0
262.0630	16.0000	16.0000	16.7365	16.1674	0.7365	0.1674	0.7553	0	0	13	0	0	0
263.7190	16.0000	16.0000	16.2959	15.9080	0.2959	-0.0920	0.3099	0	0	0	0	0	0
265.4690	16.0000	16.0000	16.3432	15.8987	0.3432	-0.1013	0.3579	0	0	0	0	0	0
267.1720	16.0000	16.0000	16.2577	15.7738	0.2577	-0.2262	0.3429	0	0	0	8	0	0
269.2500	16.0000	16.0000	16.0477	15.5235	0.0477	-0.4765	0.4788	0	0	0	0	13	0
271.0780	16.0000	16.0000	16.2724	15.8183	0.2724	-0.1817	0.3275	0	0	0	7	0	0
272.8280	16.0000	16.0000	16.2198	16.1033	0.2198	0.1033	0.2429	0	0	0	0	0	0
274.5780	16.0000	16.0000	16.2737	16.0545	0.2737	0.0545	0.2791	0	0	0	0	0	0
276.3910	16.0000	16.0000	16.4584	15.8683	0.4584	-0.1317	0.4769	0	7	0	0	0	0
278.1100	16.0000	16.0000	16.0668	16.1356	0.0668	0.1356	0.1511	0	0	0	0	0	0
279.8130	16.0000	16.0000	15.8488	16.0915	-0.1512	0.0915	0.1767	0	0	0	0	0	0
281.5940	16.0000	16.0000	16.0715	16.0483	0.0715	0.0483	0.0863	0	0	0	0	0	0
283.4380	16.0000	16.0000	16.1984	16.0658	0.1984	0.0658	0.2090	0	0	0	0	0	0
285.2660	16.0000	16.0000	16.1936	16.2729	0.1936	0.2729	0.3345	0	0	0	0	0	0
286.9530	16.0000	16.0000	16.2815	16.0534	0.2815	0.0534	0.2865	0	0	0	0	0	0
288.6100	16.0000	16.0000	15.8175	15.9169	-0.1825	-0.0831	0.2006	0	0	0	0	0	0
290.2030	16.0000	16.0000	15.8400	15.8294	-0.1600	-0.1706	0.2339	0	0	0	0	0	0
291.9060	16.0000	16.0000	16.2136	15.8649	0.2136	-0.1351	0.2528	0	0	0	0	0	0
293.8910	16.0000	16.0000	16.4011	15.7851	0.4011	-0.2149	0.4551	0	0	0	9	0	0
295.7810	16.0000	16.0000	16.4160	16.0165	0.4160	0.0165	0.4164	0	7	0	0	0	0

	297.4530	16.0000	16.0000	15.6835	15.7095	-0.3165	-0.2905	0.4296	7	0	0	0	0	0
	299.1720	16.0000	16.0000	15.9187	15.6997	-0.0813	-0.3003	0.3111	0	0	0	0	7	0
	300.9690	16.0000	16.0000	16.0138	16.0063	0.0138	0.0063	0.0152	0	0	0	0	0	0
	302.6100	16.0000	16.0000	16.3027	16.3222	0.3027	0.3222	0.4421	0	7	0	0	0	0
	304.3910	16.0000	16.0000	16.2112	16.1080	0.2112	0.1080	0.2372	0	0	0	0	0	0
	306.1100	16.0000	16.0000	16.0941	16.2049	0.0941	0.2049	0.2255	0	0	0	0	0	0
	307.8750	16.0000	16.0000	15.8485	15.8764	-0.1515	-0.1236	0.1955	0	0	0	0	0	0
	309.6880	16.0000	16.0000	16.2291	15.8648	0.2291	-0.1352	0.2660	0	0	0	0	0	0

* ml3_grn.00001139.M_13.FIT *

CCDSoft Tracking Report
Start Date Time = 2006-02-28T08:38:28.156
Camera = Imager's built-in autoguider
X Axis = Enabled
Y Axis = Enabled
ExposureTime = 1.00
Aggressiveness Factor = 8
Calibration Time X = 10.00
Calibration Time Y = 10.00
Calibration declination = -0.66
Declination now = 25.99
Minimum Move = 0.06
Maximum Move = 0.50
Backlash X = 0.00
Backlash Y = 0.00
Delay After Move = 0.00
Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	18.2157	15.5531	2.2157	-0.4469	2.2603	0	35	0	31	0
	6.7650	16.0000	16.0000	16.7816	16.3992	0.7816	0.3992	0.8776	0	16	0	0	0
	8.5620	16.0000	16.0000	15.9735	16.1572	-0.0265	0.1572	0.1594	0	0	0	0	0
	12.3900	16.0000	16.0000	15.7738	15.9692	-0.2262	-0.0308	0.2283	0	0	0	0	0
	14.1090	16.0000	16.0000	15.8693	15.8673	-0.1307	-0.1327	0.1863	0	0	0	0	0
	15.8590	16.0000	16.0000	15.9067	15.8457	-0.0933	-0.1543	0.1803	0	0	0	0	0
	17.6400	16.0000	16.0000	16.1361	15.7226	0.1361	-0.2774	0.3090	0	0	0	8	0
	19.4530	16.0000	16.0000	15.9721	15.9953	-0.0279	-0.0047	0.0283	0	0	0	0	0
	21.4530	16.0000	16.0000	15.1522	16.0374	0.0374	-0.8478	0.8486	14	0	8	0	0
	23.1560	16.0000	16.0000	15.7114	15.9661	-0.2886	-0.0339	0.2906	0	0	0	0	0
	24.9530	16.0000	16.0000	15.9877	15.8836	-0.0123	-0.1164	0.1170	0	0	0	0	0
	26.8120	16.0000	16.0000	16.0947	15.6710	0.0947	-0.3290	0.3423	0	0	0	9	0
	28.5780	16.0000	16.0000	15.9525	15.8873	-0.0475	-0.1127	0.1223	0	0	0	0	0
	30.4220	16.0000	16.0000	15.4665	15.2647	-0.5335	-0.7353	0.9085	13	0	0	15	0
	32.1090	16.0000	16.0000	15.5416	16.2296	-0.4584	0.2296	0.5127	6	10	0	0	0
	33.9690	16.0000	16.0000	16.3350	16.5411	0.3350	0.5411	0.6364	0	8	11	0	0
	35.7340	16.0000	16.0000	15.9398	16.6775	-0.0602	0.6775	0.6801	0	0	18	0	0
	37.3900	16.0000	16.0000	16.1016	16.6217	0.1016	0.6217	0.6300	0	0	15	0	0
	39.1090	16.0000	16.0000	15.9613	16.2218	-0.0387	0.2218	0.2251	0	0	6	0	0
	40.9060	16.0000	16.0000	15.6044	16.0132	-0.3956	0.0132	0.3959	7	0	0	0	0
	42.8590	16.0000	16.0000	16.3007	15.8093	0.3007	-0.1907	0.3561	0	0	0	8	0
	44.4840	16.0000	16.0000	16.3058	16.1352	0.3058	0.1352	0.3344	0	6	0	0	0
	45.9370	16.0000	16.0000	16.1331	16.1314	0.1331	0.1314	0.1870	0	0	0	0	0
	47.5150	16.0000	16.0000	16.1126	16.0211	0.1126	0.0211	0.1146	0	0	0	0	0
	49.2190	16.0000	16.0000	15.9473	15.8678	-0.0527	-0.1322	0.1424	0	0	0	0	0
	50.9370	16.0000	16.0000	15.9065	15.8564	-0.0935	-0.1436	0.1713	0	0	0	0	0
	52.8440	16.0000	16.0000	15.9628	15.7612	-0.0372	-0.2388	0.2416	0	0	0	6	0
	54.3900	16.0000	16.0000	16.1212	15.7183	0.1212	-0.2817	0.3067	0	0	0	8	0
	56.1400	16.0000	16.0000	15.9102	15.7522	-0.0898	-0.2478	0.2636	0	0	0	6	0
	58.0310	16.0000	16.0000	15.7140	15.7000	-0.2860	-0.3000	0.4145	6	0	0	0	0
	59.7190	16.0000	16.0000	15.7129	15.5508	-0.2871	-0.4492	0.5331	8	0	0	0	0
	61.4840	16.0000	16.0000	15.9181	15.6374	-0.0819	-0.3626	0.3717	0	0	0	9	0
	63.5000	16.0000	16.0000	15.7667	15.3460	-0.2333	-0.6540	0.6943	8	0	0	16	0
	65.4370	16.0000	16.0000	16.0914	15.3173	0.0914	-0.6827	0.6888	0	0	0	19	0
	67.2030	16.0000	16.0000	15.4369	15.8019	-0.5631	-0.1981	0.5970	11	0	0	0	0
	68.7650	16.0000	16.0000	15.9351	16.1733	-0.0649	0.1733	0.1851	0	0	0	0	0
	70.6720	16.0000	16.0000	15.4249	16.1316	-0.5751	0.1316	0.5900	9	0	8	0	0
	72.3280	16.0000	16.0000	16.1107	16.2185	0.1107	0.2185	0.2449	0	0	0	0	0
	74.0310	16.0000	16.0000	16.0683	16.2604	0.0683	0.2604	0.2692	0	0	6	0	0
	75.8590	16.0000	16.0000	16.1498	16.1812	0.1498	0.1812	0.2351	0	0	0	0	0
	77.6250	16.0000	16.0000	15.7229	15.7047	-0.2771	-0.2953	0.4050	6	0	0	0	0
	79.4690	16.0000	16.0000	15.7346	15.6911	-0.2654	-0.3089	0.4072	6	0	0	6	0
	81.4060	16.0000	16.0000	16.3406	15.7344	0.3406	-0.2656	0.4320	0	0	0	10	0
	83.1400	16.0000	16.0000	16.2531	15.6891	0.2531	-0.3109	0.4009	0	0	0	10	0
	85.0000	16.0000	16.0000	15.6581	15.8098	-0.3419	-0.1902	0.3912	7	0	0	0	0
	86.8750	16.0000	16.0000	16.0452	15.7691	0.0452	-0.2309	0.2353	0	0	0	6	0

88.7500	16.0000	16.0000	15.6604	15.9609	-0.3396	-0.0391	0.3418	6	0	0	0	0	0	0
90.5470	16.0000	16.0000	16.2300	15.8667	0.2300	-0.1333	0.2659	0	0	0	0	0	0	0
92.1400	16.0000	16.0000	16.1653	16.0957	0.1653	0.0957	0.1910	0	0	0	0	0	0	0
93.9060	16.0000	16.0000	16.1933	15.9147	0.1933	-0.0853	0.2113	0	0	0	0	0	0	0
95.7500	16.0000	16.0000	16.2227	15.8498	0.2227	-0.1502	0.2686	0	0	0	6	0	0	0
97.6720	16.0000	16.0000	15.5443	16.0766	-0.4557	0.0766	0.4621	8	0	6	0	0	0	0
99.3750	16.0000	16.0000	15.9365	16.1936	-0.0635	0.1936	0.2038	0	0	0	0	0	0	0
101.2340	16.0000	16.0000	16.2430	15.9346	0.2430	-0.0654	0.2517	0	0	0	0	0	0	0
102.9220	16.0000	16.0000	16.1128	16.0056	0.1128	0.0056	0.1129	0	0	0	0	0	0	0
104.6870	16.0000	16.0000	15.9732	15.9724	-0.0268	-0.0276	0.0385	0	0	0	0	0	0	0
106.4840	16.0000	16.0000	15.9507	15.8038	-0.0493	-0.1962	0.2023	0	0	0	0	0	0	0
108.3590	16.0000	16.0000	15.6715	15.7161	-0.3285	-0.2839	0.4342	7	0	0	0	0	0	0
110.2500	16.0000	16.0000	15.9463	15.8988	-0.0537	-0.1012	0.1146	0	0	0	0	0	0	0
111.9370	16.0000	16.0000	16.2421	15.7564	0.2421	-0.2436	0.3434	0	0	0	8	0	0	0
113.6400	16.0000	16.0000	15.9984	16.0552	-0.0016	0.0552	0.0552	0	0	0	0	0	0	0
115.5310	16.0000	16.0000	15.8469	15.7032	-0.1531	-0.2968	0.3340	0	0	0	7	0	0	0
117.3900	16.0000	16.0000	15.2040	15.7753	-0.7960	-0.2247	0.8271	15	0	0	0	0	0	0
119.1250	16.0000	16.0000	15.7858	15.8142	-0.2142	-0.1858	0.2835	0	0	0	0	0	0	0
121.0000	16.0000	16.0000	15.3544	15.7488	-0.6456	-0.2512	0.6927	12	0	0	0	0	0	0
122.6870	16.0000	16.0000	16.2241	15.6529	0.2241	-0.3471	0.4132	0	0	0	0	11	0	0
124.3750	16.0000	16.0000	15.9803	16.0746	-0.0197	0.0746	0.0772	0	0	0	0	0	0	0
126.3280	16.0000	16.0000	15.3899	15.9876	-0.6101	-0.0124	0.6102	11	0	0	0	0	0	0
128.0780	16.0000	16.0000	15.9107	16.1098	-0.0893	0.1098	0.1415	0	0	0	0	0	0	0
129.8750	16.0000	16.0000	16.1924	16.1820	0.1924	0.1820	0.2649	0	0	0	0	0	0	0
131.5470	16.0000	16.0000	16.0474	15.9950	0.0474	-0.0050	0.0477	0	0	0	0	0	0	0
133.4690	16.0000	16.0000	16.0761	16.1031	0.0761	0.1031	0.1281	0	0	0	0	0	0	0
135.2190	16.0000	16.0000	15.8131	15.8640	-0.1869	-0.1360	0.2311	0	0	0	0	0	0	0
137.0470	16.0000	16.0000	15.9994	15.9501	-0.0006	-0.0499	0.0500	0	0	0	0	0	0	0
138.7340	16.0000	16.0000	16.0068	15.8729	0.0068	-0.1271	0.1272	0	0	0	0	0	0	0
140.5000	16.0000	16.0000	15.9897	15.9046	-0.0103	-0.0954	0.0959	0	0	0	0	0	0	0
142.2500	16.0000	16.0000	15.7468	15.8038	-0.2532	-0.1962	0.3203	0	0	0	0	0	0	0
144.1090	16.0000	16.0000	15.9647	15.6701	-0.0353	-0.3299	0.3318	0	0	0	8	0	0	0
145.9530	16.0000	16.0000	15.5703	16.1569	-0.4297	0.1569	0.4574	6	0	8	0	0	0	0
147.6400	16.0000	16.0000	16.0772	16.0630	0.0772	0.0630	0.0997	0	0	0	0	0	0	0
149.4370	16.0000	16.0000	16.0333	16.0188	0.0333	0.0188	0.0383	0	0	0	0	0	0	0
151.1400	16.0000	16.0000	16.3285	15.9185	0.3285	-0.0815	0.3384	0	0	0	0	0	0	0
152.8280	16.0000	16.0000	16.0504	16.0103	0.0504	0.0103	0.0514	0	0	0	0	0	0	0
154.5940	16.0000	16.0000	16.1427	15.9683	0.1427	-0.0317	0.1462	0	0	0	0	0	0	0
156.4840	16.0000	16.0000	15.7479	15.6175	-0.2521	-0.3825	0.4581	6	0	0	8	0	0	0
158.1090	16.0000	16.0000	15.9290	15.9303	-0.0710	-0.0697	0.0995	0	0	0	0	0	0	0
159.8120	16.0000	16.0000	16.0504	15.8214	0.0504	-0.1786	0.1856	0	0	0	0	0	0	0
161.6870	16.0000	16.0000	16.1834	15.5278	0.1834	-0.4722	0.5065	0	0	0	14	0	0	0
163.3440	16.0000	16.0000	15.8147	15.9520	-0.1853	-0.0480	0.1914	0	0	0	0	0	0	0
165.2810	16.0000	16.0000	15.3946	15.7119	-0.6054	-0.2881	0.6704	12	0	0	0	0	0	0
166.8120	16.0000	16.0000	15.7873	15.8716	-0.2127	-0.1284	0.2484	0	0	0	0	0	0	0
168.2810	16.0000	16.0000	15.7791	16.0478	-0.2209	0.0478	0.2260	0	0	0	0	0	0	0
170.0310	16.0000	16.0000	16.0608	15.8651	0.0608	-0.1349	0.1480	0	0	0	0	0	0	0
171.6720	16.0000	16.0000	15.9216	15.9351	-0.0784	-0.0649	0.1017	0	0	0	0	0	0	0
173.3750	16.0000	16.0000	15.4606	15.7218	-0.5394	-0.2782	0.6069	11	0	0	0	0	0	0
175.4220	16.0000	16.0000	15.8638	15.6131	-0.1362	-0.3869	0.4101	0	0	0	9	0	0	0
177.2190	16.0000	16.0000	15.9435	15.8027	-0.0565	-0.1973	0.2053	0	0	0	0	0	0	0
179.2030	16.0000	16.0000	16.1765	15.7672	0.1765	-0.2328	0.2921	0	0	0	8	0	0	0
180.8440	16.0000	16.0000	15.7646	15.8792	-0.2354	-0.1208	0.2646	0	0	0	0	0	0	0
182.8120	16.0000	16.0000	15.2916	15.9208	-0.7084	-0.0792	0.7128	12	0	0	0	0	0	0
184.6400	16.0000	16.0000	16.1166	16.0661	0.1166	0.0661	0.1340	0	0	0	0	0	0	0
186.3750	16.0000	16.0000	16.2968	16.0144	0.2968	0.0144	0.2971	0	0	0	0	0	0	0
188.1090	16.0000	16.0000	16.4296	16.1188	0.4296	0.1188	0.4457	0	8	0	0	0	0	0
189.9840	16.0000	16.0000	15.8338	15.9073	-0.1662	-0.0927	0.1903	0	0	0	0	0	0	0
191.5150	16.0000	16.0000	15.9024	16.0812	-0.0976	0.0812	0.1269	0	0	0	0	0	0	0
193.2500	16.0000	16.0000	15.9015	15.8867	-0.0985	-0.1133	0.1502	0	0	0	0	0	0	0
194.9530	16.0000	16.0000	16.0571	15.6496	0.0571	-0.3504	0.3550	0	0	0	0	10	0	0
196.6870	16.0000	16.0000	15.8992	16.0818	-0.1008	0.0818	0.1298	0	0	0	0	0	0	0
198.3900	16.0000	16.0000	15.8609	16.1909	-0.1391	0.1909	0.2361	0	0	6	0	0	0	0
200.1720	16.0000	16.0000	15.8164	16.1602	-0.1836	0.1602	0.2436	0	0	0	0	0	0	0
202.0000	16.0000	16.0000	15.8899	15.9733	-0.1101	-0.0267	0.1133	0	0	0	0	0	0	0
203.7340	16.0000	16.0000	15.5361	15.8100	-0.4639	-0.1900	0.5013	9	0	0	0	0	0	0
205.5940	16.0000	16.0000	15.9883	15.9588	-0.0117	-0.0412	0.0428	0	0	0	0	0	0	0
207.1870	16.0000	16.0000	15.9622	16.1289	-0.0378	0.1289	0.1343	0	0	0	0	0	0	0
209.1250	16.0000	16.0000	16.2733	15.8473	0.2733	-0.1527	0.3131	0	0	0	0	0	0	0
210.8590	16.0000	16.0000	15.9615	15.6799	-0.0385	-0.3201	0.3224	0	0	0	8	0	0	0
212.9060	16.0000	16.0000	15.5407	15.8197	-0.4593	-0.1803	0.4935	8	0	0	0	0	0	0
214.7650	16.0000	16.0000	15.8521	15.7555	-0.1479	-0.2445	0.2858	0	0	0	0	0	0	0
216.5310	16.0000	16.0000	15.8765	15.9241	-0.1235	-0.0759	0.1450	0	0	0	0	0	0	0
218.3440	16.0000	16.0000	15.9992	15.9645	-0.0008	-0.0355	0.0355	0	0	0	0	0	0	0
220.1090	16.0000	16.0000	15.8141	15.8320	-0.1859	-0.1680	0.2506	0	0	0	0	0	0	0
221.9220	16.0000	16.0000	15.5654	15.6706	-0.4346	-0.3294	0.5453	9	0	0	0	0	0	0
223.8590	16.0000	16.0000	16.1313	15.5390	0.1313	-0.4610	0.4793	0	0	0	0	13	0	0
225.8120	16.0000	16.0000	16.2851	16.2120	0.2851	0.2120	0.3553	0	6	0	0	0	0	0
227.4370	16.0000	16.0000	15.9121	16.0722	-0.0879	0.0722	0.1138	0	0	0	0	0	0	0
229.2650	16.0000	16.0000	15.9696	16.0712	-0.0304	0.0712	0.0774	0	0	0	0	0	0	0
231.0470	16.0000	16.0000	15.5905	15.9033	-0.4095	-0.0967	0.4208	8	0	0	0	0	0	0
232.8280	16.0000	16.0000	16.3410	15.9096	0.3410	-0.0904	0.3528	0	0	0	0	0	0	0
234.5620	16.0000	16.0000	16.4183	16.0029	0.4183	0.0029	0.4183	0	7	0	0	0	0	0
236.1250	16.0000	16.0000	16.2903	16.1016	0.2903	0.1016	0.3076	0	0	0	0	0	0	0

	237.9840	16.0000	16.0000	16.3038	15.7323	0.3038	-0.2677	0.4049	0	0	0	9	0	0
	239.7500	16.0000	16.0000	15.9248	16.0696	-0.0752	0.0696	0.1024	0	0	0	0	0	0
	241.5470	16.0000	16.0000	16.0609	16.0869	0.0609	0.0869	0.1061	0	0	0	0	0	0
	243.4220	16.0000	16.0000	16.3903	16.0424	0.3903	0.0424	0.3926	0	7	0	0	0	0
	245.1250	16.0000	16.0000	16.3882	16.0119	0.3882	0.0119	0.3884	0	6	0	0	0	0
	246.9060	16.0000	16.0000	15.9176	15.8905	-0.0824	-0.1095	0.1370	0	0	0	0	0	0
	248.6400	16.0000	16.0000	15.9057	16.0618	-0.0943	0.0618	0.1127	0	0	0	0	0	0
	250.5150	16.0000	16.0000	15.8936	15.7531	-0.1064	-0.2469	0.2688	0	0	0	0	0	0
	252.3750	16.0000	16.0000	15.9522	15.6113	-0.0478	-0.3887	0.3916	0	0	0	10	0	0
	253.9530	16.0000	16.0000	15.7952	16.1948	-0.2048	0.1948	0.2826	0	0	7	0	0	0
	255.6400	16.0000	16.0000	16.2240	16.1978	0.2240	0.1978	0.2988	0	0	0	0	0	0
	257.3280	16.0000	16.0000	15.9729	16.2206	-0.0271	0.2206	0.2222	0	0	0	0	0	0
	259.2030	16.0000	16.0000	15.8388	16.0881	-0.1612	0.0881	0.1837	0	0	0	0	0	0
	260.8120	16.0000	16.0000	15.7708	15.9197	-0.2292	-0.0803	0.2428	0	0	0	0	0	0
	262.6720	16.0000	16.0000	15.7322	15.9654	-0.2678	-0.0346	0.2700	0	0	0	0	0	0
	264.5310	16.0000	16.0000	15.9249	16.1409	-0.0751	0.1409	0.1597	0	0	0	0	0	0
	266.2340	16.0000	16.0000	16.3462	16.1539	0.3462	0.1539	0.3789	0	7	0	0	0	0
	268.1560	16.0000	16.0000	15.9136	15.5770	-0.0864	-0.4230	0.4318	0	0	0	11	0	0
	269.9370	16.0000	16.0000	15.4531	15.5935	-0.5469	-0.4065	0.6814	12	0	0	6	0	0
	271.7650	16.0000	16.0000	16.0888	15.9167	0.0888	-0.0833	0.1218	0	0	0	0	0	0
	273.5620	16.0000	16.0000	16.4734	16.1873	0.4734	0.1873	0.5091	0	8	0	0	0	0
	275.1250	16.0000	16.0000	16.0694	15.9706	0.0694	-0.0294	0.0753	0	0	0	0	0	0
	277.0150	16.0000	16.0000	16.3592	15.7895	0.3592	-0.2105	0.4163	0	0	0	8	0	0
	278.7340	16.0000	16.0000	15.8216	16.0297	-0.1784	0.0297	0.1809	0	0	0	0	0	0
	280.3440	16.0000	16.0000	16.1950	16.1995	0.1950	0.1995	0.2790	0	0	0	0	0	0
	282.0310	16.0000	16.0000	16.3660	16.1799	0.3660	0.1799	0.4079	0	7	0	0	0	0
	284.0150	16.0000	16.0000	16.3356	15.8840	0.3356	-0.1160	0.3551	0	0	0	6	0	0
	285.7340	16.0000	16.0000	15.9883	16.2023	-0.0117	0.2023	0.2027	0	0	0	0	0	0
	287.4530	16.0000	16.0000	15.9758	16.0991	-0.0242	0.0991	0.1020	0	0	0	0	0	0
	289.1720	16.0000	16.0000	16.1760	15.9210	0.1760	-0.0790	0.1929	0	0	0	0	0	0
	290.8900	16.0000	16.0000	16.2361	16.1403	0.2361	0.1403	0.2746	0	0	0	0	0	0
	292.5780	16.0000	16.0000	16.0971	16.3707	0.0971	0.3707	0.3832	0	0	8	0	0	0
	294.4840	16.0000	16.0000	16.4642	16.0442	0.4642	0.0442	0.4663	0	8	0	0	0	0
	296.1560	16.0000	16.0000	15.9715	15.9331	-0.0285	-0.0669	0.0727	0	0	0	0	0	0
	298.0940	16.0000	16.0000	16.0079	15.7552	0.0079	-0.2448	0.2450	0	0	0	7	0	0
	299.7650	16.0000	16.0000	15.8224	15.7102	-0.1776	-0.2898	0.3399	0	0	0	6	0	0
	301.4370	16.0000	16.0000	16.0160	15.7506	0.0160	-0.2494	0.2500	0	0	0	7	0	0
	303.4840	16.0000	16.0000	16.0101	16.2450	0.0101	0.2450	0.2452	0	0	6	0	0	0
	305.3590	16.0000	16.0000	15.7478	16.2001	-0.2522	0.2001	0.3219	0	0	7	0	0	0
	307.0470	16.0000	16.0000	15.8164	16.0214	-0.1836	0.0214	0.1848	0	0	0	0	0	0
	308.6400	16.0000	16.0000	15.7435	15.7455	-0.2565	-0.2545	0.3613	0	0	0	0	0	0
	310.4220	16.0000	16.0000	15.3468	15.9770	-0.6532	-0.0230	0.6536	12	0	0	0	0	0

* ml3_grn.00001140.M_13.FIT *

CCDSOFT Tracking Report
Start Date Time = 2006-02-28T08:43:43.984
Camera = Imager's built-in autoguider
X Axis = Enabled
Y Axis = Enabled
ExposureTime = 1.00
Aggressiveness Factor = 8
Calibration Time X = 10.00
Calibration Time Y = 10.00
Calibration declination = -0.66
Declination now = 25.99
Minimum Move = 0.06
Maximum Move = 0.50
Backlash X = 0.00
Backlash Y = 0.00
Delay After Move = 0.00
Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

	Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX		GuideErrY		TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
	0.0000	16.0000	16.0000	15.5378	17.7160	-0.4622		1.7160		1.7772	0	0	48	0	0	0	0	0
	7.2350	16.0000	16.0000	15.9086	17.7643	-0.0914		1.7643		1.7667	0	8	46	0	0	0	0	0
	9.3600	16.0000	16.0000	15.7622	17.8859	-0.2378		1.8859		1.9008	0	7	50	0	0	0	0	0
	11.5630	16.0000	16.0000	15.0995	17.5391	-0.9005		1.5391		1.7832	7	0	48	0	0	0	0	0
	13.5940	16.0000	16.0000	15.7152	17.3904	-0.2848		1.3904		1.4192	0	0	38	0	0	0	0	0
	15.5940	16.0000	16.0000	16.1454	17.7145	0.1454		1.7145		1.7207	0	12	43	0	0	0	0	0
	17.7660	16.0000	16.0000	15.7721	17.0922	-0.2279		1.0922		1.1157	0	0	30	0	0	0	0	0
	19.8130	16.0000	16.0000	15.4146	16.6842	-0.5854		0.6842		0.9005	6	0	23	0	0	0	0	0
	21.5630	16.0000	16.0000	15.8149	16.1970	-0.1851		0.1970		0.2703	0	0	7	0	0	0	0	0
	25.3440	16.0000	16.0000	15.9375	15.9816	-0.0625		-0.0184		0.0652	0	0	0	0	0	0	0	0
	27.0940	16.0000	16.0000	15.9173	15.9038	-0.0827		-0.0962		0.1269	0	0	0	0	0	0	0	0
	28.9060	16.0000	16.0000	15.4131	16.0607	-0.5869		0.0607		0.5900	10	0	7	0	0	0	0	0

183.2810	16.0000	16.0000	15.8949	16.0021	-0.1051	0.0021	0.1051	0	0	0	0	0	0
185.1410	16.0000	16.0000	15.1860	15.6194	-0.8140	-0.3806	0.8986	16	0	0	0	0	0
186.7970	16.0000	16.0000	16.2543	15.8466	0.2543	-0.1534	0.2970	0	0	0	6	0	0
188.5160	16.0000	16.0000	16.4265	16.1200	0.4265	0.1200	0.4431	0	8	0	0	0	0
190.0780	16.0000	16.0000	16.1579	15.9449	0.1579	-0.0551	0.1672	0	0	0	0	0	0
191.9850	16.0000	16.0000	15.9174	15.3520	-0.0826	-0.6480	0.6532	0	0	0	16	0	0
193.8750	16.0000	16.0000	15.1342	16.2908	-0.8658	0.2908	0.9133	13	0	15	0	0	0
195.7030	16.0000	16.0000	15.7863	16.7719	-0.2137	0.7719	0.8009	0	0	21	0	0	0
197.4530	16.0000	16.0000	16.4196	16.8048	0.4196	0.8048	0.9076	0	12	16	0	0	0
199.3440	16.0000	16.0000	16.3675	16.7217	0.3675	0.7217	0.8099	0	10	15	0	0	0
201.2500	16.0000	16.0000	15.5900	16.2643	-0.4100	0.2643	0.4878	0	0	10	0	0	0
202.8280	16.0000	16.0000	15.1757	16.1603	-0.8243	0.1603	0.8397	13	0	12	0	0	0
204.5470	16.0000	16.0000	16.1882	16.4431	0.1882	0.4431	0.4814	0	0	9	0	0	0
206.3440	16.0000	16.0000	16.3865	16.3836	0.3865	0.3836	0.5446	0	8	6	0	0	0
208.2190	16.0000	16.0000	16.2679	16.4954	0.2679	0.4954	0.5632	0	7	10	0	0	0
209.8130	16.0000	16.0000	15.9516	16.0172	-0.0484	0.0172	0.0514	0	0	0	0	0	0
211.6410	16.0000	16.0000	15.6286	15.9853	-0.3714	-0.0147	0.3717	6	0	0	0	0	0
213.2660	16.0000	16.0000	16.0754	16.0111	0.0754	0.0111	0.0762	0	0	0	0	0	0
214.9220	16.0000	16.0000	16.1300	16.1989	0.1300	0.1989	0.2376	0	0	0	0	0	0
216.4690	16.0000	16.0000	16.1220	15.8818	0.1220	-0.1182	0.1699	0	0	0	0	0	0
218.3910	16.0000	16.0000	16.2462	15.7181	0.2462	-0.2819	0.3743	0	0	0	9	0	0
220.0940	16.0000	16.0000	16.0714	15.9051	0.0714	-0.0949	0.1188	0	0	0	0	0	0
221.8440	16.0000	16.0000	15.9556	15.9919	-0.0444	-0.0081	0.0451	0	0	0	0	0	0
223.4690	16.0000	16.0000	15.7301	15.7763	-0.2699	-0.2237	0.3506	6	0	0	0	0	0
225.2190	16.0000	16.0000	16.0671	15.9565	0.0671	-0.0435	0.0799	0	0	0	0	0	0
226.8130	16.0000	16.0000	16.2063	15.9909	0.2063	-0.0091	0.2065	0	0	0	0	0	0
228.7030	16.0000	16.0000	16.3779	15.6214	0.3779	-0.3786	0.5349	0	0	0	13	0	0
230.7190	16.0000	16.0000	16.1902	15.7266	0.1902	-0.2734	0.3330	0	0	0	8	0	0
232.7190	16.0000	16.0000	15.9373	15.3468	-0.0627	-0.6532	0.6562	0	0	0	17	0	0
234.6560	16.0000	16.0000	16.0744	15.6249	0.0744	-0.3751	0.3824	0	0	0	11	0	0
236.5000	16.0000	16.0000	16.1773	15.5586	0.1773	-0.4414	0.4757	0	0	0	0	0	0
238.2030	16.0000	16.0000	16.3494	15.1476	0.3494	-0.8524	0.9212	0	0	0	13	0	0
240.0310	16.0000	16.0000	15.9071	15.3633	-0.0929	-0.6367	0.6435	0	0	0	0	0	0
242.0000	16.0000	16.0000	15.8911	15.1180	-0.1089	-0.8820	0.8887	7	0	0	23	0	0
243.8130	16.0000	16.0000	15.8525	15.8106	-0.1475	-0.1894	0.2400	0	0	0	0	0	0
245.3440	16.0000	16.0000	16.0275	16.0329	0.0275	0.0329	0.0429	0	0	0	0	0	0
247.0310	16.0000	16.0000	15.9881	16.1196	-0.0119	0.1196	0.1202	0	0	0	0	0	0
248.7350	16.0000	16.0000	15.8700	15.9001	-0.1300	-0.0999	0.1640	0	0	0	0	0	0
250.5160	16.0000	16.0000	15.3439	15.6111	-0.6561	-0.3889	0.7627	13	0	0	0	0	0
252.0940	16.0000	16.0000	16.3154	15.7594	0.3154	-0.2406	0.3967	0	0	0	9	0	0
253.9380	16.0000	16.0000	16.7863	16.0300	0.7863	0.0300	0.7869	0	13	0	0	0	0
255.7030	16.0000	16.0000	15.8896	15.7932	-0.1104	-0.2068	0.2344	0	0	0	0	0	0
257.4690	16.0000	16.0000	15.8131	15.7374	-0.1869	-0.2626	0.3223	0	0	0	0	0	0
259.2030	16.0000	16.0000	15.7777	15.6531	-0.2223	-0.3469	0.4120	0	0	0	8	0	0
261.0310	16.0000	16.0000	15.4932	15.9978	-0.5068	-0.0022	0.5068	8	0	0	0	0	0
262.6880	16.0000	16.0000	16.0154	16.2800	0.0154	0.2800	0.2804	0	0	7	0	0	0
264.4850	16.0000	16.0000	16.0022	15.9387	0.0022	-0.0613	0.0613	0	0	0	0	0	0
266.1880	16.0000	16.0000	15.9574	16.0584	-0.0426	0.0584	0.0723	0	0	0	0	0	0
268.0160	16.0000	16.0000	15.9420	16.0362	-0.0580	0.0362	0.0684	0	0	0	0	0	0
269.9530	16.0000	16.0000	15.8429	15.9429	-0.1571	-0.0571	0.1671	0	0	0	0	0	0
271.6560	16.0000	16.0000	16.0769	15.8104	0.0769	-0.1896	0.2046	0	0	0	0	0	0
273.2660	16.0000	16.0000	16.0160	15.6739	0.0160	-0.3261	0.3265	0	0	0	8	0	0
275.0000	16.0000	16.0000	15.9717	15.8092	-0.0283	-0.1908	0.1929	0	0	0	0	0	0
276.8750	16.0000	16.0000	15.8804	15.7413	-0.1196	-0.2587	0.2850	0	0	0	6	0	0
278.7350	16.0000	16.0000	15.1883	16.1685	-0.8117	0.1685	0.8290	13	0	12	0	0	0
280.5160	16.0000	16.0000	15.4488	15.7861	-0.5512	-0.2139	0.5913	11	0	0	0	0	0
282.1100	16.0000	16.0000	16.1637	15.9751	0.1637	-0.0249	0.1656	0	0	0	0	0	0
283.9850	16.0000	16.0000	16.2404	15.6883	0.2404	-0.3117	0.3937	0	0	0	10	0	0
285.9850	16.0000	16.0000	16.5208	15.7669	0.5208	-0.2331	0.5706	0	7	0	11	0	0
287.8750	16.0000	16.0000	15.3647	15.8956	-0.6353	-0.1044	0.6438	12	0	0	0	0	0
289.8280	16.0000	16.0000	15.3657	15.7617	-0.6343	-0.2383	0.6776	12	0	0	0	0	0
291.5780	16.0000	16.0000	16.0754	16.0937	0.0754	0.0937	0.1202	0	0	0	0	0	0
293.2350	16.0000	16.0000	16.1018	16.0830	0.1018	0.0830	0.1314	0	0	0	0	0	0
295.0470	16.0000	16.0000	16.0929	15.9126	0.0929	-0.0874	0.1276	0	0	0	0	0	0
297.0160	16.0000	16.0000	15.9214	16.0802	-0.0786	0.0802	0.1123	0	0	0	0	0	0
298.5780	16.0000	16.0000	15.8436	15.9078	-0.1564	-0.0922	0.1816	0	0	0	0	0	0
300.3130	16.0000	16.0000	16.0710	15.8714	0.0710	-0.1286	0.1469	0	0	0	0	0	0
302.1720	16.0000	16.0000	16.1117	15.9465	0.1117	-0.0535	0.1238	0	0	0	0	0	0
304.0470	16.0000	16.0000	16.2514	15.5411	0.2514	-0.4589	0.5232	0	0	0	15	0	0
305.7970	16.0000	16.0000	16.0659	15.8917	0.0659	-0.1083	0.1268	0	0	0	0	0	0
307.8280	16.0000	16.0000	15.3792	15.9134	-0.6208	-0.0866	0.6268	11	0	0	0	0	0
309.5630	16.0000	16.0000	16.0068	16.1225	0.0068	0.1225	0.1227	0	0	0	0	0	0
311.3130	16.0000	16.0000	15.9728	15.9373	-0.0272	-0.0627	0.0683	0	0	0	0	0	0
313.0630	16.0000	16.0000	16.1381	16.1409	0.1381	0.1409	0.1973	0	0	0	0	0	0
314.8130	16.0000	16.0000	15.8701	16.1388	-0.1299	0.1388	0.1901	0	0	0	0	0	0
316.5310	16.0000	16.0000	15.9625	16.1132	-0.0375	0.1132	0.1192	0	0	0	0	0	0
318.5310	16.0000	16.0000	15.3484	15.7229	-0.6516	-0.2771	0.7080	12	0	0	0	0	0
320.3280	16.0000	16.0000	15.9939	15.8870	-0.0061	-0.1130	0.1132	0	0	0	0	0	0
322.0630	16.0000	16.0000	16.2495	15.8913	0.2495	-0.1087	0.2722	0	0	0	0	0	0

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	131.5930	16.0000	16.0000	15.2487	15.7319	-0.7513	-0.2681	0.7977	15	0	0	0	0	0
	133.5780	16.0000	16.0000	16.0474	15.9981	0.0474	-0.0019	0.0475	0	0	0	0	0	0
	135.8590	16.0000	16.0000	15.8366	15.7274	-0.1634	-0.2726	0.3179	0	0	0	6	0	0
	138.3430	16.0000	16.0000	15.7597	15.5808	-0.2403	-0.4192	0.4832	6	0	0	9	0	0
	140.5620	16.0000	16.0000	15.4375	15.1676	-0.5625	-0.8324	1.0047	14	0	0	18	0	0
	143.2030	16.0000	16.0000	15.5138	15.2799	-0.4862	-0.7201	0.8688	12	0	0	15	0	0
	145.4840	16.0000	16.0000	16.0602	15.9955	0.0602	-0.0045	0.0604	0	0	0	0	0	0
	147.7960	16.0000	16.0000	16.1288	16.0786	0.1288	0.0786	0.1509	0	0	0	0	0	0
	149.9060	16.0000	16.0000	15.4510	15.6153	-0.5490	-0.3847	0.6704	12	0	0	0	0	0
	152.2650	16.0000	16.0000	15.9704	15.5857	-0.0296	-0.4143	0.4153	0	0	0	11	0	0
	154.3430	16.0000	16.0000	16.3943	16.2218	0.3943	0.2218	0.4524	0	8	0	0	0	0
	156.4060	16.0000	16.0000	15.9674	16.0251	-0.0326	0.0251	0.0411	0	0	0	0	0	0
	158.6560	16.0000	16.0000	15.3931	15.9579	-0.6069	-0.0421	0.6083	11	0	0	0	0	0
	160.9210	16.0000	16.0000	16.0082	16.0478	0.0082	0.0478	0.0485	0	0	0	0	0	0
	163.2960	16.0000	16.0000	16.2866	15.8063	0.2866	-0.1937	0.3459	0	0	0	8	0	0
	165.5620	16.0000	16.0000	16.0206	16.1068	0.0206	0.1068	0.1087	0	0	0	0	0	0
	167.7340	16.0000	16.0000	15.9261	16.1715	-0.0739	0.1715	0.1868	0	0	0	0	0	0
	170.2180	16.0000	16.0000	15.8207	16.1005	-0.1793	0.1005	0.2055	0	0	0	0	0	0
	172.7340	16.0000	16.0000	15.9682	15.7546	-0.0318	-0.2454	0.2474	0	0	0	6	0	0
	174.8430	16.0000	16.0000	16.1486	15.9689	0.1486	-0.0311	0.1518	0	0	0	0	0	0
	176.9370	16.0000	16.0000	15.8036	15.7642	-0.1964	-0.2358	0.3069	0	0	0	0	0	0
	179.1090	16.0000	16.0000	15.6000	15.7141	-0.4000	-0.2859	0.4917	8	0	0	0	0	0
	181.7810	16.0000	16.0000	15.4858	15.6939	-0.5142	-0.3061	0.5984	11	0	0	0	0	0
	183.9840	16.0000	16.0000	16.3608	15.9164	0.3608	-0.0836	0.3704	0	0	0	0	0	0
	186.2650	16.0000	16.0000	16.1291	15.8118	0.1291	-0.1882	0.2282	0	0	0	6	0	0
	188.5930	16.0000	16.0000	15.9215	15.7622	-0.0785	-0.2378	0.2504	0	0	0	0	0	0
	191.1400	16.0000	16.0000	15.8996	15.5994	-0.1004	-0.4006	0.4130	0	0	0	10	0	0
	193.3590	16.0000	16.0000	16.1010	16.0682	0.1010	0.0682	0.1218	0	0	0	0	0	0
	195.5310	16.0000	16.0000	15.8838	15.9299	-0.1162	-0.0701	0.1357	0	0	0	0	0	0
	198.1250	16.0000	16.0000	15.4167	15.8838	-0.5838	-0.1162	0.5948	11	0	0	0	0	0
	200.3120	16.0000	16.0000	16.0367	15.8531	0.0367	-0.1469	0.1514	0	0	0	0	0	0
	202.4680	16.0000	16.0000	16.5499	15.9839	0.5499	-0.0161	0.5501	0	9	0	0	0	0
	204.8590	16.0000	16.0000	15.8122	15.6428	-0.1878	-0.3572	0.4036	0	0	0	8	0	0
	207.5000	16.0000	16.0000	15.1928	15.7126	-0.8072	-0.2874	0.8568	16	0	0	0	0	0
	209.7500	16.0000	16.0000	16.1888	16.1062	0.1888	0.1062	0.2166	0	0	0	0	0	0
	212.4210	16.0000	16.0000	16.5466	15.9706	0.5466	-0.0294	0.5474	0	8	0	0	0	0
	214.8280	16.0000	16.0000	16.0034	15.7597	0.0034	-0.2403	0.2403	0	0	0	0	0	0
	217.5310	16.0000	16.0000	15.9739	15.6733	-0.0261	-0.3267	0.3277	0	0	0	6	0	0
	219.6870	16.0000	16.0000	15.7634	15.9923	-0.2366	-0.0077	0.2367	0	0	0	0	0	0
	221.9530	16.0000	16.0000	15.9487	15.9158	-0.0513	-0.0842	0.0986	0	0	0	0	0	0
	224.2500	16.0000	16.0000	16.0778	15.8759	0.0778	-0.1241	0.1465	0	0	0	0	0	0
	226.4840	16.0000	16.0000	15.7999	15.8324	-0.2001	-0.1676	0.2610	0	0	0	0	0	0
	228.8900	16.0000	16.0000	15.8743	15.7264	-0.1257	-0.2736	0.3011	0	0	0	6	0	0
	230.8280	16.0000	16.0000	15.9956	16.0027	-0.0044	0.0027	0.0051	0	0	0	0	0	0
	233.0930	16.0000	16.0000	16.0779	15.9066	0.0779	-0.0934	0.1217	0	0	0	0	0	0
	235.5310	16.0000	16.0000	15.4147	15.5442	-0.5853	-0.4558	0.7418	12	0	0	7	0	0
	238.0310	16.0000	16.0000	15.3032	15.7061	-0.6968	-0.2939	0.7562	13	0	0	0	0	0
	240.2500	16.0000	16.0000	16.0869	15.9147	0.0869	-0.0853	0.1217	0	0	0	0	0	0
	242.2030	16.0000	16.0000	16.2106	15.8904	0.2106	-0.1096	0.2374	0	0	0	0	0	0
	244.4370	16.0000	16.0000	15.8554	15.5924	-0.1446	-0.4076	0.4324	0	0	0	9	0	0
	246.4840	16.0000	16.0000	15.5362	16.0487	-0.4638	0.0487	0.4664	8	0	0	0	0	0
	248.6560	16.0000	16.0000	16.0193	15.9762	0.0193	-0.0238	0.0306	0	0	0	0	0	0
	250.7960	16.0000	16.0000	16.2476	15.8629	0.2476	-0.1371	0.2830	0	0	0	0	0	0
	252.9680	16.0000	16.0000	15.9265	15.9472	-0.0735	-0.0528	0.0905	0	0	0	0	0	0
	255.5310	16.0000	16.0000	15.8106	15.6905	-0.1894	-0.3095	0.3628	0	0	0	7	0	0
	257.7650	16.0000	16.0000	15.9100	15.8903	-0.0900	-0.1097	0.1419	0	0	0	0	0	0
	259.9060	16.0000	16.0000	16.0815	15.9307	0.0815	-0.0693	0.1070	0	0	0	0	0	0
	262.6400	16.0000	16.0000	16.0624	15.7916	0.0624	-0.2084	0.2175	0	0	0	6	0	0
	265.0150	16.0000	16.0000	15.6241	15.8723	-0.3759	-0.1277	0.3970	0	0	0	0	0	0
	267.5310	16.0000	16.0000	16.4412	16.1189	0.4412	0.1189	0.4569	0	8	0	0	0	0
	269.6870	16.0000	16.0000	16.2220	15.9467	0.2220	-0.0533	0.2283	0	0	0	0	0	0
	272.0000	16.0000	16.0000	16.0808	15.6730	0.0808	-0.3270	0.3369	0	0	0	9	0	0
	274.3120	16.0000	16.0000	16.0290	15.9057	0.0290	-0.0943	0.0986	0	0	0	0	0	0
	276.7030	16.0000	16.0000	15.8622	15.9658	-0.1378	-0.0342	0.1420	0	0	0	0	0	0
	279.3900	16.0000	16.0000	16.2337	15.7673	0.2337	-0.2327	0.3298	0	0	0	8	0	0
	281.6560	16.0000	16.0000	16.0109	16.1985	0.0109	0.1985	0.1988	0	0	0	0	0	0
	284.0620	16.0000	16.0000	15.8711	15.9454	-0.1289	-0.0546	0.1400	0	0	0	0	0	0
	286.0150	16.0000	16.0000	15.8125	16.0135	-0.1875	0.0135	0.1880	0	0	0	0	0	0
	288.3280	16.0000	16.0000	15.9250	16.3954	-0.0750	0.3954	0.4024	0	0	11	0	0	0
	290.5780	16.0000	16.0000	16.3677	16.0071	0.3677	0.0071	0.3678	0	6	0	0	0	0
	293.2810	16.0000	16.0000	15.4080	15.7278	-0.5920	-0.2722	0.6516	12	0	0	0	0	0
	295.4840	16.0000	16.0000	15.7585	15.8070	-0.2415	-0.1930	0.3091	0	0	0	0	0	0
	297.8280	16.0000	16.0000	16.3156	15.6240	0.3156	-0.3760	0.4909	0	0	0	12	0	0
	300.4210	16.0000	16.0000	16.0361	15.7235	0.0361	-0.2765	0.2789	0	0	0	8	0	0
	302.8900	16.0000	16.0000	15.4531	16.0406	-0.5469	0.0406	0.5484	9	0	6	0	0	0
	305.1560	16.0000	16.0000	16.2769	16.0924	0.2769	0.0924	0.2920	0	0	0	0	0	0

* ml3_blu.00001142.M_13.FIT *

CCDSoft Tracking Report
Start Date Time = 2006-02-28T08:57:37.859
Camera = Imager's built-in autoguider

X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
0.0000	16.0000	16.0000	14.4356	15.7583	-1.5644	-0.2417	1.5829	28	0	8	0	0	0	0	0
7.9690	16.0000	16.0000	15.6919	15.8362	-0.3081	-0.1638	0.3489	6	0	0	0	0	0	0	0
12.3440	16.0000	16.0000	15.1917	15.6949	-0.8083	-0.3051	0.8639	16	0	0	0	0	0	0	0
14.7970	16.0000	16.0000	16.0642	15.8539	0.0642	-0.1461	0.1596	0	0	0	0	0	0	0	0
17.2030	16.0000	16.0000	15.9235	15.7487	-0.0765	-0.2513	0.2627	0	0	0	6	0	0	0	0
19.6250	16.0000	16.0000	15.3755	15.5618	-0.6245	-0.4382	0.7629	13	0	0	0	6	0	0	0
22.0000	16.0000	16.0000	15.8800	15.4879	-0.1200	-0.5121	0.5260	0	0	0	0	12	0	0	0
24.4380	16.0000	16.0000	16.0582	16.0322	0.0582	0.0322	0.0665	0	0	0	0	0	0	0	0
26.7190	16.0000	16.0000	15.8860	15.8563	-0.1140	-0.1437	0.1834	0	0	0	0	0	0	0	0
29.3130	16.0000	16.0000	15.1904	15.6705	-0.8096	-0.3295	0.8741	16	0	0	0	0	0	0	0
31.8440	16.0000	16.0000	16.0575	15.5999	0.0575	-0.4001	0.4042	0	0	0	0	0	0	0	0
34.1880	16.0000	16.0000	16.2197	16.1576	0.2197	0.1576	0.2704	0	0	0	0	11	0	0	0
36.5780	16.0000	16.0000	15.9284	15.9468	-0.0716	-0.0532	0.0892	0	0	0	0	0	0	0	0
39.1720	16.0000	16.0000	15.5278	16.0640	-0.4722	0.0640	0.4765	8	0	6	0	0	0	0	0
41.2820	16.0000	16.0000	16.1462	16.0819	0.1462	0.0819	0.1676	0	0	0	0	0	0	0	0
43.4380	16.0000	16.0000	16.4276	16.0650	0.4276	0.0650	0.4325	0	8	0	0	0	0	0	0
45.7350	16.0000	16.0000	15.8951	15.8318	-0.1049	-0.1682	0.1982	0	0	0	0	0	0	0	0
48.3750	16.0000	16.0000	15.4547	15.5875	-0.5453	-0.4125	0.6838	12	0	0	6	0	0	0	0
50.8910	16.0000	16.0000	16.4098	15.8670	0.4098	-0.1330	0.4308	0	6	0	0	7	0	0	0
53.3910	16.0000	16.0000	16.1952	16.0656	0.1952	0.0656	0.2059	0	0	0	0	0	0	0	0
55.5780	16.0000	16.0000	16.0087	15.8549	0.0087	-0.1451	0.1453	0	0	0	0	0	0	0	0
57.8600	16.0000	16.0000	15.8420	15.6933	-0.1580	-0.3067	0.3450	0	0	0	0	7	0	0	0
60.0940	16.0000	16.0000	15.7440	15.8888	-0.1112	-0.1112	0.2791	0	0	0	0	0	0	0	0
62.2660	16.0000	16.0000	15.8935	15.7410	-0.1065	-0.2590	0.2800	0	0	0	0	6	0	0	0
64.6250	16.0000	16.0000	15.9471	16.0757	-0.0529	0.0757	0.0923	0	0	0	0	0	0	0	0
66.8600	16.0000	16.0000	15.5427	15.8784	-0.4573	-0.1216	0.4732	8	0	0	0	0	0	0	0
69.1880	16.0000	16.0000	15.4056	15.8055	-0.5944	-0.1945	0.6255	12	0	0	0	0	0	0	0
71.2820	16.0000	16.0000	16.2124	15.9122	0.2124	-0.0878	0.2298	0	0	0	0	0	0	0	0
73.5630	16.0000	16.0000	16.2613	15.8779	0.2613	-0.1221	0.2884	0	0	0	0	0	0	0	0
76.2030	16.0000	16.0000	15.8483	15.6962	-0.1517	-0.3038	0.3396	0	0	0	7	0	0	0	0
78.5160	16.0000	16.0000	15.7658	15.9612	-0.2342	-0.0388	0.2374	0	0	0	0	0	0	0	0
80.9380	16.0000	16.0000	16.0970	15.8485	0.0970	-0.1515	0.1799	0	0	0	0	0	0	0	0
83.4070	16.0000	16.0000	15.9589	15.4713	-0.0411	-0.5287	0.5303	0	0	0	14	0	0	0	0
86.0470	16.0000	16.0000	15.6799	16.1895	-0.3201	0.1895	0.3720	0	0	0	0	0	0	0	0
88.3600	16.0000	16.0000	15.8090	16.1901	-0.1910	0.1901	0.2695	0	0	0	8	0	0	0	0
90.8280	16.0000	16.0000	16.1039	16.1812	0.1039	0.1812	0.2089	0	0	0	0	0	0	0	0
93.3280	16.0000	16.0000	15.9473	16.0790	-0.0527	0.0790	0.0949	0	0	0	0	0	0	0	0
95.5630	16.0000	16.0000	15.8772	15.8751	-0.1228	-0.1249	0.1752	0	0	0	0	0	0	0	0
97.9220	16.0000	16.0000	15.9341	16.0402	-0.0659	0.0402	0.0772	0	0	0	0	0	0	0	0
100.2970	16.0000	16.0000	16.1570	16.0135	0.1570	0.0135	0.1576	0	0	0	0	0	0	0	0
102.3130	16.0000	16.0000	15.9481	15.6700	-0.0519	-0.3300	0.3340	0	0	0	8	0	0	0	0
104.5470	16.0000	16.0000	15.8933	15.6573	-0.1067	-0.3427	0.3590	0	0	0	8	0	0	0	0
106.7820	16.0000	16.0000	15.1879	15.7194	-0.8121	-0.2806	0.8592	16	0	0	0	0	0	0	0
109.2190	16.0000	16.0000	16.1845	15.7253	0.1845	-0.2747	0.3309	0	0	0	8	0	0	0	0
111.5160	16.0000	16.0000	15.9697	15.8389	-0.0303	-0.1611	0.1639	0	0	0	0	0	0	0	0
113.9070	16.0000	16.0000	15.8447	15.8053	-0.1553	-0.1947	0.2491	0	0	0	0	0	0	0	0
116.7190	16.0000	16.0000	15.2522	15.7257	-0.7478	-0.2743	0.7966	14	0	0	0	0	0	0	0
118.9220	16.0000	16.0000	15.8533	15.8396	-0.1467	-0.1604	0.2173	0	0	0	0	0	0	0	0
121.1250	16.0000	16.0000	16.0134	15.6514	0.0134	-0.3486	0.3489	0	0	0	0	9	0	0	0
123.8130	16.0000	16.0000	15.3505	15.7089	-0.6495	-0.2911	0.7118	12	0	0	0	0	0	0	0
125.9530	16.0000	16.0000	15.7281	15.7903	-0.2719	-0.2097	0.3433	6	0	0	0	0	0	0	0
128.2820	16.0000	16.0000	16.2681	15.8067	0.2681	-0.1933	0.3305	0	0	0	8	0	0	0	0
130.6570	16.0000	16.0000	16.1583	16.0458	0.1583	0.0458	0.1648	0	0	0	0	0	0	0	0
133.0940	16.0000	16.0000	15.9338	15.9057	-0.0662	-0.0943	0.1153	0	0	0	0	0	0	0	0
135.5630	16.0000	16.0000	16.1500	15.6735	0.1500	-0.3265	0.3593	0	0	0	0	10	0	0	0
138.0000	16.0000	16.0000	16.1904	16.3667	0.1904	0.3667	0.4132	0	8	0	0	0	0	0	0
140.5160	16.0000	16.0000	15.9174	16.4970	-0.0826	0.4970	0.5038	0	0	13	0	0	0	0	0
142.5780	16.0000	16.0000	15.7725	16.0621	-0.2275	0.0621	0.2358	0	0	0	0	0	0	0	0
144.7660	16.0000	16.0000	16.0934	16.2199	0.0934	0.2199	0.2389	0	0	0	0	0	0	0	0
147.1880	16.0000	16.0000	15.9768	16.1187	-0.0232	0.1187	0.1209	0	0	0	0	0	0	0	0
149.4380	16.0000	16.0000	16.1165	15.9973	0.1165	-0.0027	0.1165	0	0	0	0	0	0	0	0
151.8280	16.0000	16.0000	15.9102	15.2863	-0.0898	-0.7137	0.7194	0	0	0	0	19	0	0	0

	154.2350	16.0000	16.0000	15.7940	15.7346	-0.2060	-0.2654	0.3360	0	0	0	0	0	0
	156.8910	16.0000	16.0000	15.5536	15.4304	-0.4464	-0.5696	0.7237	11	0	0	12	0	0
	159.4690	16.0000	16.0000	15.9538	16.0815	-0.0462	0.0815	0.0937	0	0	0	0	0	0
	161.9070	16.0000	16.0000	15.6193	16.0108	-0.3807	0.0108	0.3809	6	0	0	0	0	0
	164.1410	16.0000	16.0000	15.7755	15.7303	-0.2245	-0.2697	0.3509	0	0	0	0	0	0
	166.2350	16.0000	16.0000	16.0368	15.9011	0.0368	-0.0989	0.1055	0	0	0	0	0	0
	168.6880	16.0000	16.0000	16.3380	15.8162	0.3380	-0.1838	0.3847	0	0	0	8	0	0
	171.2660	16.0000	16.0000	16.0230	15.7949	0.0230	-0.2051	0.2064	0	0	0	0	0	0
	173.7500	16.0000	16.0000	15.8802	16.1346	-0.1198	0.1346	0.1802	0	0	0	0	0	0
	176.2190	16.0000	16.0000	16.1879	16.2961	0.1879	0.2961	0.3507	0	0	0	0	0	0
	178.6570	16.0000	16.0000	16.3967	16.1411	0.3967	0.1411	0.4210	0	8	0	0	0	0
	181.1720	16.0000	16.0000	15.6431	15.3796	-0.3569	-0.6204	0.7157	9	0	0	13	0	0
	183.4380	16.0000	16.0000	16.0482	15.8404	0.0482	-0.1596	0.1688	0	0	0	0	0	0
	186.2660	16.0000	16.0000	16.5419	16.2557	0.5419	0.2557	0.5992	0	10	0	0	0	0
	188.6570	16.0000	16.0000	15.9848	15.9995	-0.0152	-0.0005	0.0152	0	0	0	0	0	0
	191.1570	16.0000	16.0000	15.9285	15.8286	-0.0715	-0.1714	0.1857	0	0	0	0	0	0
	193.6100	16.0000	16.0000	16.0346	15.6994	0.0346	-0.3006	0.3026	0	0	0	8	0	0
	195.9850	16.0000	16.0000	16.0460	16.1679	0.0460	0.1679	0.1741	0	0	0	0	0	0
	198.3130	16.0000	16.0000	16.2332	16.2137	0.2332	0.2137	0.3163	0	0	0	0	0	0
	200.5160	16.0000	16.0000	15.8148	16.1066	-0.1852	0.1066	0.2136	0	0	0	0	0	0
	202.7660	16.0000	16.0000	15.9082	16.1161	-0.0918	0.1161	0.1480	0	0	0	0	0	0
	204.9070	16.0000	16.0000	16.2791	16.0545	0.2791	0.0545	0.2844	0	0	0	0	0	0
	207.6100	16.0000	16.0000	16.4846	15.8140	0.4846	-0.1860	0.5191	0	7	0	9	0	0
	209.9220	16.0000	16.0000	15.5949	15.9404	-0.4051	-0.0596	0.4095	7	0	0	0	0	0
	212.4380	16.0000	16.0000	15.8735	15.9651	-0.1265	-0.0349	0.1312	0	0	0	0	0	0
	214.6880	16.0000	16.0000	16.3584	15.9756	0.3584	-0.0244	0.3592	0	0	0	0	0	0
	217.0940	16.0000	16.0000	16.5082	16.1747	0.5082	0.1747	0.5373	0	9	0	0	0	0
	219.8750	16.0000	16.0000	15.7108	15.8144	-0.2892	-0.1856	0.3436	6	0	0	0	0	0
	222.0470	16.0000	16.0000	16.0626	15.6354	0.0626	-0.3646	0.3699	0	0	0	10	0	0
	224.2970	16.0000	16.0000	16.3245	16.3411	0.3245	0.3411	0.4708	0	7	0	0	0	0
	227.1250	16.0000	16.0000	15.9797	16.3899	-0.0203	0.3899	0.3905	0	0	10	0	0	0
	229.4380	16.0000	16.0000	15.7514	15.9730	-0.2486	-0.0270	0.2500	0	0	0	0	0	0
	231.6410	16.0000	16.0000	16.2551	15.8083	0.2551	-0.1917	0.3191	0	0	0	7	0	0
	234.1250	16.0000	16.0000	16.5006	16.0091	0.5006	0.0091	0.5007	0	8	0	0	0	0
	236.5780	16.0000	16.0000	16.0746	15.7112	0.0746	-0.2888	0.2983	0	0	0	8	0	0
	238.7500	16.0000	16.0000	16.0668	15.9771	0.0668	-0.0229	0.0707	0	0	0	0	0	0
	241.3750	16.0000	16.0000	16.3282	15.9062	0.3282	-0.0938	0.3413	0	0	0	0	0	0
	243.8130	16.0000	16.0000	16.5334	16.0318	0.5334	0.0318	0.5343	0	9	0	0	0	0
	246.2030	16.0000	16.0000	16.3454	15.8533	0.3454	-0.1467	0.3752	0	0	0	7	0	0
	248.4850	16.0000	16.0000	16.1853	16.1295	0.1853	0.1295	0.2261	0	0	0	0	0	0
	251.0940	16.0000	16.0000	16.0336	16.1031	0.0336	0.1031	0.1084	0	0	0	0	0	0
	253.7660	16.0000	16.0000	15.8932	15.6571	-0.1068	-0.3429	0.3592	0	0	0	8	0	0
	255.9690	16.0000	16.0000	16.4591	16.2365	0.4591	0.2365	0.5165	0	9	0	0	0	0
	258.2970	16.0000	16.0000	15.8806	15.8547	-0.1194	-0.1453	0.1881	0	0	0	0	0	0
	260.6100	16.0000	16.0000	15.8581	15.8551	-0.1419	-0.1449	0.2028	0	0	0	0	0	0
	262.8750	16.0000	16.0000	16.0937	15.8418	0.0937	-0.1582	0.1838	0	0	0	0	0	0
	265.3440	16.0000	16.0000	16.4692	15.9729	0.4692	-0.0271	0.4700	0	8	0	0	0	0
	267.5780	16.0000	16.0000	15.4199	15.2830	-0.5801	-0.7170	0.9223	14	0	0	14	0	0
	270.3750	16.0000	16.0000	15.4997	15.9994	-0.5003	-0.0006	0.5003	8	0	0	0	0	0
	272.5940	16.0000	16.0000	16.6086	16.3184	0.6086	0.3184	0.6868	0	12	0	0	0	0
	275.1720	16.0000	16.0000	16.1940	15.9526	0.1940	-0.0474	0.1997	0	0	0	0	0	0
	277.3130	16.0000	16.0000	15.8884	15.8599	-0.1116	-0.1401	0.1791	0	0	0	0	0	0
	279.6410	16.0000	16.0000	16.3064	15.8569	0.3064	-0.1431	0.3382	0	0	0	6	0	0
	282.0000	16.0000	16.0000	16.4917	16.5488	0.4917	0.5488	0.7369	0	12	9	0	0	0
	284.6570	16.0000	16.0000	16.0384	16.4619	0.0384	0.4619	0.4635	0	0	11	0	0	0
	286.8280	16.0000	16.0000	16.1423	15.9498	0.1423	-0.0502	0.1509	0	0	0	0	0	0
	288.9220	16.0000	16.0000	15.9566	16.1141	-0.0434	0.1141	0.1221	0	0	0	0	0	0
	291.1410	16.0000	16.0000	15.8984	16.2553	-0.1016	0.2553	0.2748	0	0	7	0	0	0
	293.6410	16.0000	16.0000	15.9129	16.0220	-0.0871	0.0220	0.0898	0	0	0	0	0	0
	296.1570	16.0000	16.0000	16.0277	15.8675	0.0277	-0.1325	0.1353	0	0	0	0	0	0
	298.0940	16.0000	16.0000	15.8579	15.8624	-0.1421	-0.1376	0.1978	0	0	0	0	0	0
	300.3600	16.0000	16.0000	16.0815	15.6782	0.0815	-0.3218	0.3320	0	0	0	9	0	0
	303.2970	16.0000	16.0000	16.1959	15.2695	0.1959	-0.7305	0.7563	0	0	0	21	0	0
	305.5320	16.0000	16.0000	15.4668	15.1026	-0.5332	-0.8974	1.0438	14	0	0	20	0	0
	308.4690	16.0000	16.0000	15.3841	16.0646	-0.6159	0.0646	0.6193	10	0	7	0	0	0

 * m13_blu.00001143.M_13.FIT *

CCDSoft Tracking Report
 Start Date Time = 2006-02-28T09:02:53.328
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00

Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)

XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
0.0000	16.0000	16.0000	16.0300	14.1345	0.0300	-1.8655	1.8658	10	0	0	50	0	0
8.2810	16.0000	16.0000	15.8171	16.2477	-0.1829	0.2477	0.3079	0	0	8	0	0	0
12.4370	16.0000	16.0000	15.8783	15.9579	-0.1217	-0.0421	0.1287	0	0	0	0	0	0
14.6400	16.0000	16.0000	16.2691	15.9279	0.2691	-0.0721	0.2786	0	0	0	0	0	0
16.9530	16.0000	16.0000	16.0744	15.0017	0.0744	-0.9983	1.0011	0	0	0	28	0	0
19.3120	16.0000	16.0000	15.4250	16.3603	-0.5750	0.3603	0.6786	8	0	14	0	0	0
21.9370	16.0000	16.0000	15.9273	16.6900	-0.0727	0.6900	0.6939	0	0	18	0	0	0
24.4060	16.0000	16.0000	16.0709	16.8034	0.0709	0.8034	0.8065	0	0	20	0	0	0
27.1090	16.0000	16.0000	15.8507	16.7973	-0.1493	0.7973	0.8112	0	0	22	0	0	0
29.6400	16.0000	16.0000	15.7365	16.9562	-0.2635	0.9562	0.9919	0	0	27	0	0	0
32.1720	16.0000	16.0000	15.5544	16.2785	-0.4456	0.2785	0.5255	6	0	11	0	0	0
34.4530	16.0000	16.0000	16.0608	16.2507	0.0608	0.2507	0.2580	0	0	0	0	0	0
37.1250	16.0000	16.0000	15.9882	16.5342	-0.0118	0.5342	0.5343	0	0	13	0	0	0
39.4680	16.0000	16.0000	15.6444	16.4187	-0.3556	0.4187	0.5493	0	0	14	0	0	0
41.7810	16.0000	16.0000	15.4395	15.7923	-0.5605	-0.2077	0.5977	11	0	0	0	0	0
43.7970	16.0000	16.0000	16.2609	15.9387	0.2609	-0.0613	0.2680	0	0	0	0	0	0
46.0150	16.0000	16.0000	15.9843	16.1870	-0.0157	0.1870	0.1877	0	0	0	0	0	0
48.6720	16.0000	16.0000	15.7454	15.6898	-0.2546	-0.3102	0.4013	6	0	0	6	0	0
51.0150	16.0000	16.0000	15.7669	15.7168	-0.2331	-0.2832	0.3668	0	0	0	0	0	0
53.6560	16.0000	16.0000	15.9875	15.7119	-0.0125	-0.2881	0.2884	0	0	0	8	0	0
56.1250	16.0000	16.0000	15.6697	15.2134	-0.3303	-0.7866	0.8531	10	0	0	18	0	0
58.6560	16.0000	16.0000	15.5919	15.1983	-0.4081	-0.8017	0.8996	12	0	0	18	0	0
61.1090	16.0000	16.0000	16.2032	15.4997	0.2032	-0.5003	0.5400	0	0	0	15	0	0
63.5780	16.0000	16.0000	16.8907	15.5406	0.8907	-0.4594	1.0022	0	12	0	20	0	0
66.3750	16.0000	16.0000	16.4043	15.2457	0.4043	-0.7543	0.8559	0	0	0	24	0	0
69.0000	16.0000	16.0000	16.1010	15.1835	0.1010	-0.8165	0.8227	0	0	0	23	0	0
71.6720	16.0000	16.0000	16.2108	14.9191	0.2108	-1.0809	1.1012	0	0	0	31	0	0
74.2180	16.0000	16.0000	15.9024	16.2335	-0.0976	0.2335	0.2531	0	0	7	0	0	0
76.5310	16.0000	16.0000	16.0475	16.5803	0.0475	0.5803	0.5822	0	0	14	0	0	0
79.0150	16.0000	16.0000	15.6581	15.9279	-0.3419	-0.0721	0.3494	6	0	0	0	0	0
81.5780	16.0000	16.0000	15.8551	16.2195	-0.1449	0.2195	0.2630	0	0	7	0	0	0
84.4530	16.0000	16.0000	16.2157	15.7188	0.2157	-0.2812	0.3544	0	0	0	9	0	0
86.9370	16.0000	16.0000	15.3109	15.6207	-0.6891	-0.3793	0.7866	14	0	0	0	0	0
89.2500	16.0000	16.0000	15.9263	15.8862	-0.0737	-0.1138	0.1356	0	0	0	0	0	0
91.6400	16.0000	16.0000	16.0499	15.6774	0.0499	-0.3226	0.3264	0	0	0	9	0	0
93.7810	16.0000	16.0000	15.7579	15.6746	-0.2421	-0.3254	0.4056	6	0	0	7	0	0
96.1560	16.0000	16.0000	15.2393	15.1403	-0.7607	-0.8597	1.1479	18	0	0	16	0	0
98.5780	16.0000	16.0000	15.7100	15.9134	-0.2900	-0.0866	0.3026	0	0	0	0	0	0
101.0930	16.0000	16.0000	16.1317	16.4262	0.1317	0.4262	0.4461	0	0	9	0	0	0
103.2650	16.0000	16.0000	15.9763	15.9743	-0.0237	-0.0257	0.0350	0	0	0	0	0	0
105.8280	16.0000	16.0000	15.8152	15.6411	-0.1848	-0.3589	0.4037	0	0	0	8	0	0
108.1560	16.0000	16.0000	15.6398	15.2330	-0.3602	-0.7670	0.8474	10	0	0	17	0	0
110.3590	16.0000	16.0000	16.0899	16.0479	0.0899	0.0479	0.1019	0	0	0	0	0	0
112.4060	16.0000	16.0000	16.0184	15.8053	0.0184	-0.1947	0.1955	0	0	0	0	0	0
114.8590	16.0000	16.0000	15.6394	16.1226	-0.3606	0.1226	0.3809	0	0	6	0	0	0
117.0150	16.0000	16.0000	16.0382	16.1450	0.0382	0.1450	0.1499	0	0	0	0	0	0
119.4220	16.0000	16.0000	16.0158	15.8980	0.0158	-0.1020	0.1032	0	0	0	0	0	0
121.5780	16.0000	16.0000	16.2627	16.0369	0.2627	0.0369	0.2653	0	0	0	0	0	0
123.8430	16.0000	16.0000	16.4026	15.9650	0.4026	-0.0350	0.4042	0	6	0	0	0	0
126.3280	16.0000	16.0000	15.9810	15.7759	-0.0190	-0.2241	0.2249	0	0	0	0	0	0
128.5310	16.0000	16.0000	15.9978	15.7117	-0.0022	-0.2883	0.2883	0	0	0	8	0	0
130.7970	16.0000	16.0000	16.1586	15.7857	0.1586	-0.2143	0.2666	0	0	0	7	0	0
132.9840	16.0000	16.0000	15.9663	15.8417	-0.0337	-0.1583	0.1618	0	0	0	0	0	0
135.8590	16.0000	16.0000	15.2794	15.6636	-0.7206	-0.3364	0.7952	14	0	0	0	0	0
138.0000	16.0000	16.0000	16.1694	15.8258	0.1694	-0.1742	0.2430	0	0	0	6	0	0
140.1090	16.0000	16.0000	16.2824	15.9662	0.2824	-0.0338	0.2844	0	0	0	0	0	0
142.4840	16.0000	16.0000	15.9597	15.6802	-0.0403	-0.3198	0.3224	0	0	0	8	0	0
144.9680	16.0000	16.0000	15.4927	15.9210	-0.5073	-0.0790	0.5134	9	0	0	0	0	0
147.1090	16.0000	16.0000	16.2086	15.9569	0.2086	-0.0431	0.2130	0	0	0	0	0	0
149.5150	16.0000	16.0000	16.2132	15.7427	0.2132	-0.2573	0.3341	0	0	0	8	0	0
151.8750	16.0000	16.0000	15.9413	16.2555	-0.0587	0.2555	0.2621	0	0	7	0	0	0
154.2030	16.0000	16.0000	15.6171	15.6911	-0.3829	-0.3089	0.4919	8	0	0	0	0	0
156.5310	16.0000	16.0000	16.2727	15.8059	0.2727	-0.1941	0.3347	0	0	0	8	0	0
158.7970	16.0000	16.0000	16.4085	16.1593	0.4085	0.1593	0.4385	0	8	0	0	0	0
161.5150	16.0000	16.0000	16.4012	16.1742	0.4012	0.1742	0.4374	0	0	0	0	0	0
163.7650	16.0000	16.0000	15.9010	15.6615	-0.0990	-0.3385	0.3527	0	0	0	8	0	0
165.9530	16.0000	16.0000	15.8318	16.0378	-0.1682	0.0378	0.1724	0	0	0	0	0	0
168.7500	16.0000	16.0000	15.8613	16.2418	-0.1387	0.2418	0.2788	0	0	7	0	0	0
170.9530	16.0000	16.0000	16.0497	16.0001	0.0497	0.0001	0.0497	0	0	0	0	0	0
173.0000	16.0000	16.0000	15.9592	15.8243	-0.0408	-0.1757	0.1804	0	0	0	0	0	0
175.2810	16.0000	16.0000	15.9010	15.6853	-0.0990	-0.3147	0.3299	0	0	0	8	0	0
177.7340	16.0000	16.0000	15.6874	15.9393	-0.3126	-0.0607	0.3185	0	0	0	0	0	0
179.9680	16.0000	16.0000	15.9357	15.6012	-0.0643	-0.3988	0.4040	0	0	0	10	0	0

	182.4370	16.0000	16.0000	15.2481	16.0219	-0.7519	0.0219	0.7522	12	0	7	0	0	0
	184.8280	16.0000	16.0000	15.4149	15.8070	-0.5851	-0.1930	0.6161	11	0	0	0	0	0
	187.4530	16.0000	16.0000	16.2783	15.8028	0.2783	-0.1972	0.3411	0	0	0	8	0	0
	190.2810	16.0000	16.0000	16.4473	15.4742	0.4473	-0.5258	0.6903	0	0	0	18	0	0
	192.7810	16.0000	16.0000	15.4670	16.7367	-0.5330	0.7367	0.9093	0	0	24	0	0	0
	195.4220	16.0000	16.0000	16.1514	16.8379	0.1514	0.8379	0.8515	0	7	20	0	0	0
	197.8750	16.0000	16.0000	16.2483	16.8274	0.2483	0.8274	0.8638	0	8	19	0	0	0
	200.2030	16.0000	16.0000	15.9324	16.5781	-0.0676	0.5781	0.5820	0	0	15	0	0	0
	202.5780	16.0000	16.0000	16.0062	16.1484	0.0062	0.1484	0.1485	0	0	0	0	0	0
	204.9530	16.0000	16.0000	16.3426	16.4623	0.3426	0.4623	0.5754	0	8	8	0	0	0
	207.7180	16.0000	16.0000	16.0176	16.5252	0.0176	0.5252	0.5255	0	0	13	0	0	0
	210.2030	16.0000	16.0000	15.8507	16.2817	-0.1493	0.2817	0.3188	0	0	8	0	0	0
	212.5000	16.0000	16.0000	16.2086	16.3322	0.2086	0.3322	0.3923	0	0	6	0	0	0
	214.7500	16.0000	16.0000	16.4441	16.0284	0.4441	0.0284	0.4450	0	0	0	0	0	0
	216.9370	16.0000	16.0000	16.3013	16.2062	0.3013	0.2062	0.3651	0	6	0	0	0	0
	219.2340	16.0000	16.0000	15.9857	15.8361	-0.0143	-0.1639	0.1645	0	0	0	0	0	0
	221.8120	16.0000	16.0000	15.5994	15.6737	-0.4006	-0.3263	0.5167	8	0	0	0	0	0
	224.3280	16.0000	16.0000	16.3927	15.9583	0.3927	-0.0417	0.3949	0	6	0	0	0	0
	226.5930	16.0000	16.0000	16.2050	15.9709	0.2050	-0.0291	0.2071	0	0	0	0	0	0
	229.2810	16.0000	16.0000	15.6114	15.9854	-0.3886	-0.0146	0.3889	0	6	0	0	0	0
	231.7500	16.0000	16.0000	15.9548	15.1873	-0.0452	-0.8127	0.8139	0	0	0	21	0	0
	234.3900	16.0000	16.0000	16.1224	15.1924	0.1224	-0.8076	0.8169	0	0	0	23	0	0
	236.8430	16.0000	16.0000	16.4230	15.3674	0.4230	-0.6326	0.7610	0	0	0	20	0	0
	239.5310	16.0000	16.0000	16.2667	15.2361	0.2667	-0.7639	0.8091	0	0	0	23	0	0
	242.0620	16.0000	16.0000	16.0371	14.9405	0.0371	-1.0595	1.0602	0	0	0	29	0	0
	244.8280	16.0000	16.0000	16.8188	15.7612	0.8188	-0.2388	0.8529	0	12	0	13	0	0
	247.4530	16.0000	16.0000	15.5683	15.9027	-0.4317	-0.0973	0.4426	8	0	0	0	0	0
	249.7180	16.0000	16.0000	16.2794	15.7101	0.2794	-0.2899	0.4026	0	0	0	10	0	0
	252.0930	16.0000	16.0000	16.5457	16.1065	0.5457	0.1065	0.5560	0	9	0	0	0	0
	254.8280	16.0000	16.0000	16.3532	15.8485	0.3532	-0.1515	0.3843	0	0	0	7	0	0
	257.0930	16.0000	16.0000	16.4379	16.1040	0.4379	0.1040	0.4501	0	8	0	0	0	0
	259.6400	16.0000	16.0000	15.9339	15.8235	-0.0661	-0.1765	0.1884	0	0	0	0	0	0
	262.2180	16.0000	16.0000	16.0302	16.0439	0.0302	0.0439	0.0533	0	0	0	0	0	0
	264.5620	16.0000	16.0000	16.2419	15.7884	0.2419	-0.2116	0.3214	0	0	0	8	0	0
	266.9060	16.0000	16.0000	16.1181	16.0395	0.1181	0.0395	0.1246	0	0	0	0	0	0
	269.1870	16.0000	16.0000	15.9074	16.2873	-0.0926	0.2873	0.3019	0	0	8	0	0	0
	271.4220	16.0000	16.0000	15.9345	16.1762	-0.0655	0.1762	0.1880	0	0	0	0	0	0
	273.9530	16.0000	16.0000	16.1676	15.9878	0.1676	-0.0122	0.1680	0	0	0	0	0	0
	276.2970	16.0000	16.0000	16.1287	16.0619	0.1287	0.0619	0.1428	0	0	0	0	0	0
	278.7180	16.0000	16.0000	15.4404	15.8750	-0.5596	-0.1250	0.5733	10	0	0	0	0	0
	280.8280	16.0000	16.0000	15.9900	15.7524	-0.0100	-0.2476	0.2478	0	0	0	6	0	0
	283.5930	16.0000	16.0000	15.9447	15.3283	-0.0553	-0.6717	0.6740	0	0	0	17	0	0
	285.8430	16.0000	16.0000	15.8694	16.2309	-0.1306	0.2309	0.2653	0	0	7	0	0	0
	288.5780	16.0000	16.0000	15.4615	16.1373	-0.5385	0.1373	0.5558	8	0	8	0	0	0
	290.8430	16.0000	16.0000	16.3315	16.1448	0.3315	0.1448	0.3618	0	6	0	0	0	0
	293.3590	16.0000	16.0000	16.2324	15.9254	0.2324	-0.0746	0.2441	0	0	0	0	0	0
	295.9840	16.0000	16.0000	16.1104	15.9998	0.1104	-0.0002	0.1104	0	0	0	0	0	0
	298.0620	16.0000	16.0000	16.1497	15.8130	0.1497	-0.1870	0.2395	0	0	0	6	0	0
	300.2650	16.0000	16.0000	16.3392	15.7941	0.3392	-0.2059	0.3968	0	0	0	8	0	0
	302.3280	16.0000	16.0000	16.3726	15.7283	0.3726	-0.2717	0.4611	0	0	0	10	0	0
	304.8120	16.0000	16.0000	16.2564	16.1572	0.2564	0.1572	0.3008	0	0	0	0	0	0
	307.4060	16.0000	16.0000	15.8552	16.1084	-0.1448	0.1084	0.1809	0	0	0	0	0	0
	310.2340	16.0000	16.0000	16.0733	16.2621	0.0733	0.2621	0.2721	0	0	6	0	0	0

* ml3_blu.00001144.M_13.FIT *

CCDSof Tracking Report
Start Date Time = 2006-02-28T09:08:08.734
Camera = Imager's built-in autoguider
X Axis = Enabled
Y Axis = Enabled
ExposureTime = 1.00
Aggressiveness Factor = 8
Calibration Time X = 10.00
Calibration Time Y = 10.00
Calibration declination = -0.66
Declination now = 25.99
Minimum Move = 0.06
Maximum Move = 0.50
Backlash X = 0.00
Backlash Y = 0.00
Delay After Move = 0.00
Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
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Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	18.1248	15.7624	2.1248	-0.2376	2.1381	0	35	0	24	0

8.1410	16.0000	16.0000	16.8033	16.0791	0.8033	0.0791	0.8072	0	14	0	0	0	0	0
10.3440	16.0000	16.0000	15.7857	15.5933	-0.2143	-0.4067	0.4597	6	0	0	9	0	0	0
12.4370	16.0000	16.0000	15.9618	16.1934	-0.0382	0.1934	0.1972	0	0	0	0	0	0	0
16.8590	16.0000	16.0000	16.1089	15.9025	0.1089	-0.0975	0.1462	0	0	0	0	0	0	0
19.2810	16.0000	16.0000	15.8318	15.7591	-0.1682	-0.2409	0.2938	0	0	0	0	0	0	0
22.1250	16.0000	16.0000	15.9682	16.1330	-0.0318	0.1330	0.1368	0	0	0	0	0	0	0
24.1560	16.0000	16.0000	16.2879	15.9188	0.2879	-0.0812	0.2992	0	0	0	0	0	0	0
26.4690	16.0000	16.0000	16.3704	15.8399	0.3704	-0.1601	0.4035	0	0	0	8	0	0	0
28.7500	16.0000	16.0000	16.1913	16.1339	0.1913	0.1339	0.2335	0	0	0	0	0	0	0
31.0940	16.0000	16.0000	16.3048	16.0179	0.3048	0.0179	0.3054	0	0	0	0	0	0	0
33.4530	16.0000	16.0000	16.6819	16.2403	0.6819	0.2403	0.7230	0	12	0	0	0	0	0
35.7810	16.0000	16.0000	16.1979	16.0116	0.1979	0.0116	0.1982	0	0	0	0	0	0	0
37.9840	16.0000	16.0000	16.0931	15.6886	0.0931	-0.3114	0.3250	0	0	0	9	0	0	0
40.7970	16.0000	16.0000	15.5283	15.6549	-0.4717	-0.3451	0.5845	10	0	0	0	0	0	0
42.9690	16.0000	16.0000	16.4130	15.9245	0.4130	-0.0755	0.4198	0	0	0	0	0	0	0
45.2030	16.0000	16.0000	15.8695	15.7915	-0.1305	-0.2085	0.2460	0	0	0	0	0	0	0
47.8910	16.0000	16.0000	15.9446	15.5869	-0.4131	-0.0554	0.4168	0	0	11	0	0	0	0
50.1410	16.0000	16.0000	15.6259	16.0879	-0.3741	0.0879	0.3842	6	0	0	0	0	0	0
52.6720	16.0000	16.0000	15.5143	16.1647	-0.4857	0.1647	0.5128	8	0	8	0	0	0	0
54.9690	16.0000	16.0000	16.3731	16.4439	0.3731	0.4439	0.5798	0	8	8	0	0	0	0
57.3280	16.0000	16.0000	16.0646	15.7648	0.0646	-0.2352	0.2439	0	0	7	0	0	0	0
60.2190	16.0000	16.0000	15.4100	15.7079	-0.5900	-0.2921	0.6584	12	0	0	0	0	0	0
62.7030	16.0000	16.0000	16.5052	15.5697	0.5052	-0.4303	0.6637	0	6	0	16	0	0	0
65.2340	16.0000	16.0000	16.2699	15.8051	0.2699	-0.1949	0.3329	0	0	0	8	0	0	0
67.4690	16.0000	16.0000	15.8826	16.0944	-0.1174	0.0944	0.1506	0	0	0	0	0	0	0
69.5470	16.0000	16.0000	15.8568	15.8961	-0.1432	-0.1039	0.1769	0	0	0	0	0	0	0
71.7340	16.0000	16.0000	16.2498	16.3354	0.2498	0.3354	0.4182	0	6	6	0	0	0	0
74.0310	16.0000	16.0000	16.3254	16.2729	0.3254	0.2729	0.4247	0	7	0	0	0	0	0
76.4220	16.0000	16.0000	15.7754	15.7688	-0.2246	-0.2312	0.3223	0	0	0	0	0	0	0
78.7030	16.0000	16.0000	15.5031	15.7518	-0.4969	-0.2482	0.5555	10	0	0	0	0	0	0
80.9220	16.0000	16.0000	16.5421	16.0682	0.5421	0.0682	0.5463	0	9	0	0	0	0	0
83.4220	16.0000	16.0000	16.0694	15.5624	0.0694	-0.4376	0.4431	0	0	12	0	0	0	0
85.9690	16.0000	16.0000	16.1713	15.8386	0.1713	-0.1614	0.2353	0	0	0	0	0	0	0
88.2500	16.0000	16.0000	16.0677	15.7924	0.0677	-0.2076	0.2184	0	0	0	6	0	0	0
90.7030	16.0000	16.0000	16.3047	15.8058	0.3047	-0.1942	0.3613	0	0	0	8	0	0	0
93.3590	16.0000	16.0000	16.0662	16.6564	0.0662	0.6564	0.6597	0	0	16	0	0	0	0
96.0780	16.0000	16.0000	16.4146	15.9436	0.4146	-0.0564	0.4185	0	6	0	0	0	0	0
98.3750	16.0000	16.0000	15.8909	16.1821	-0.1091	0.1821	0.2123	0	0	0	0	0	0	0
100.8910	16.0000	16.0000	16.1259	15.8630	0.1259	-0.1370	0.1861	0	0	0	0	0	0	0
103.1870	16.0000	16.0000	16.8467	15.9354	0.8467	-0.0646	0.8491	0	14	0	8	0	0	0
105.6250	16.0000	16.0000	15.5519	15.8161	-0.4481	-0.1839	0.4844	8	0	0	0	0	0	0
108.0780	16.0000	16.0000	16.1499	15.8942	0.1499	-0.1058	0.1835	0	0	0	0	0	0	0
110.5780	16.0000	16.0000	16.4141	15.7522	0.4141	-0.2478	0.4826	0	0	0	10	0	0	0
113.0000	16.0000	16.0000	16.7179	16.2097	0.7179	0.2097	0.7479	0	13	0	0	0	0	0
115.3590	16.0000	16.0000	15.8572	15.9487	-0.1428	-0.0513	0.1518	0	0	0	0	0	0	0
117.9060	16.0000	16.0000	15.8708	15.5642	-0.1292	-0.4358	0.4546	0	0	0	11	0	0	0
120.4220	16.0000	16.0000	16.1238	15.7780	0.1238	-0.2220	0.2542	0	0	0	7	0	0	0
122.9220	16.0000	16.0000	16.0691	16.1616	0.0691	0.1616	0.1757	0	0	0	0	0	0	0
125.0160	16.0000	16.0000	15.7780	15.8587	-0.2220	-0.1413	0.2631	0	0	0	0	0	0	0
127.0160	16.0000	16.0000	15.8885	16.0737	-0.1115	0.0737	0.1337	0	0	0	0	0	0	0
129.7030	16.0000	16.0000	16.4340	15.9858	0.4340	-0.0142	0.4342	0	7	0	0	0	0	0
131.8750	16.0000	16.0000	16.1294	16.1034	0.1294	0.1034	0.1657	0	0	0	0	0	0	0
134.0940	16.0000	16.0000	16.1762	16.0915	0.1762	0.0915	0.1985	0	0	0	0	0	0	0
136.3590	16.0000	16.0000	16.1956	15.9060	0.1956	-0.0940	0.2170	0	0	0	0	0	0	0
138.7970	16.0000	16.0000	16.0898	15.9797	0.0898	-0.0203	0.0921	0	0	0	0	0	0	0
141.3910	16.0000	16.0000	16.4018	15.8936	0.4018	-0.1064	0.4156	0	6	0	6	0	0	0
143.7810	16.0000	16.0000	16.0382	15.8566	0.0382	-0.1434	0.1484	0	0	0	0	0	0	0
146.1870	16.0000	16.0000	15.5473	15.7207	-0.4527	-0.2793	0.5319	9	0	0	0	0	0	0
148.6410	16.0000	16.0000	16.3570	15.9047	0.3570	-0.0953	0.3695	0	0	0	0	0	0	0
151.3440	16.0000	16.0000	16.8047	15.6583	0.8047	-0.3417	0.8742	0	12	0	16	0	0	0
153.4060	16.0000	16.0000	15.9365	16.1612	-0.0635	0.1612	0.1733	0	0	0	0	0	0	0
155.7500	16.0000	16.0000	15.1646	15.9873	-0.8354	-0.0127	0.8355	15	0	7	0	0	0	0
158.2500	16.0000	16.0000	16.2544	16.4755	0.2544	0.4755	0.5393	0	7	9	0	0	0	0
160.6560	16.0000	16.0000	16.2735	16.1489	0.2735	0.1489	0.3114	0	0	0	0	0	0	0
162.9370	16.0000	16.0000	15.8629	16.1460	-0.1371	0.1460	0.2003	0	0	0	0	0	0	0
165.1720	16.0000	16.0000	15.5177	15.7662	-0.4823	-0.2338	0.5360	9	0	0	0	0	0	0
167.8590	16.0000	16.0000	16.4211	16.0050	0.4211	0.0050	0.4211	0	7	0	0	0	0	0
170.0620	16.0000	16.0000	16.2194	16.0290	0.2194	0.0290	0.2213	0	0	0	0	0	0	0
173.0000	16.0000	16.0000	16.3310	15.7072	0.3310	-0.2928	0.4420	0	0	0	11	0	0	0
175.3280	16.0000	16.0000	16.5340	15.7020	0.5340	-0.2980	0.6115	0	7	0	12	0	0	0
178.0470	16.0000	16.0000	16.4198	15.8394	0.4198	-0.1606	0.4495	0	6	0	8	0	0	0
180.3440	16.0000	16.0000	15.9142	16.0179	-0.0858	0.0179	0.0877	0	0	0	0	0	0	0
182.6410	16.0000	16.0000	15.4598	15.5330	-0.5402	-0.4670	0.7140	12	0	0	8	0	0	0
185.2660	16.0000	16.0000	16.7244	16.6738	0.7244	0.6738	0.9894	0	16	10	0	0	0	0
187.6250	16.0000	16.0000	16.1667	16.0799	0.1667	0.0799	0.1849	0	0	0	0	0	0	0
190.0940	16.0000	16.0000	15.9872	16.0600	-0.0128	0.0600	0.0613	0	0	0	0	0	0	0
192.2660	16.0000	16.0000	15.7772	15.9848	-0.2228	-0.0152	0.2233	0	0	0	0	0	0	0
194.5470	16.0000	16.0000	15.6610	16.1302	-0.3390	0.1302	0.3632	0	0	6	0	0	0	0
196.8910	16.0000	16.0000	16.4063	16.1646	0.4063	0.1646	0.4384	0	8	0	0	0	0	0
199.3120	16.0000	16.0000	16.1156	15.8392	0.1156	-0.1608	0.1980	0	0	0	0	0	0	0
201.7810	16.0000	16.0000	15.9292	15.7569	-0.0708	-0.2431	0.2532	0	0	0	6	0	0	0
204.0940	16.0000	16.0000	15.4101	15.7356	-0.5899	-0.2644	0.6464	12	0	0	0	0	0	0
206.8590	16.0000	16.0000	16.6738	15.6310	0.6738	-0.3690	0.7682	0	9	0	16	0	0	0
209.2500	16.0000	16.0000	16.2643	15.6421	0.2643	-0.3579	0.4449	0	0	0	12	0	0	0

	211.9220	16.0000	16.0000	15.5418	15.6616	-0.4582	-0.3384	0.5696	10	0	0	0	0	0	0
	214.2500	16.0000	16.0000	15.8350	15.7519	-0.1650	-0.2481	0.2980	0	0	0	0	0	0	0
	217.1560	16.0000	16.0000	16.3034	16.1630	0.3034	0.1630	0.3444	0	6	0	0	0	0	0
	219.2500	16.0000	16.0000	15.5194	15.9135	-0.4806	-0.0865	0.4883	8	0	0	0	0	0	0
	221.4370	16.0000	16.0000	16.0116	16.0025	0.0116	0.0025	0.0119	0	0	0	0	0	0	0
	223.6250	16.0000	16.0000	16.2391	16.1803	0.2391	0.1803	0.2994	0	0	0	0	0	0	0
	226.3440	16.0000	16.0000	16.3576	15.8848	0.3576	-0.1152	0.3757	0	0	0	0	6	0	0
	228.6720	16.0000	16.0000	16.3751	15.7985	0.3751	-0.2015	0.4258	0	0	0	0	8	0	0
	231.5000	16.0000	16.0000	15.7825	16.5822	-0.2175	0.5822	0.6215	0	0	16	0	0	0	0
	233.8440	16.0000	16.0000	16.0499	15.9601	0.0499	-0.0399	0.0639	0	0	0	0	0	0	0
	236.6560	16.0000	16.0000	15.8810	16.5923	-0.1190	0.5923	0.6042	0	0	16	0	0	0	0
	238.7190	16.0000	16.0000	16.1667	16.0904	0.1667	0.0904	0.1896	0	0	0	0	0	0	0
	240.9690	16.0000	16.0000	16.2665	15.7984	0.2665	-0.2016	0.3342	0	0	0	0	8	0	0
	243.1090	16.0000	16.0000	16.3277	16.0332	0.3277	0.0332	0.3294	0	0	0	0	0	0	0
	245.1560	16.0000	16.0000	16.3765	15.8804	0.3765	-0.1196	0.3950	0	0	0	6	0	0	0
	247.5620	16.0000	16.0000	16.1387	16.0674	0.1387	0.0674	0.1542	0	0	0	0	0	0	0
	249.9530	16.0000	16.0000	15.8743	15.7978	-0.1257	-0.2022	0.2381	0	0	0	0	0	0	0
	252.3440	16.0000	16.0000	15.9374	15.6381	-0.0626	-0.3619	0.3673	0	0	0	9	0	0	0
	254.8120	16.0000	16.0000	15.9709	15.3940	-0.0291	-0.6060	0.6067	0	0	0	16	0	0	0
	257.3440	16.0000	16.0000	15.6736	15.6225	-0.3264	-0.3775	0.4990	8	0	0	7	0	0	0
	259.9690	16.0000	16.0000	15.3128	15.8565	-0.6872	-0.1435	0.7020	12	0	0	0	0	0	0
	262.3590	16.0000	16.0000	15.8892	15.7662	-0.1108	-0.2338	0.2588	0	0	0	0	0	0	0
	264.2970	16.0000	16.0000	15.9104	15.8898	-0.0896	-0.1102	0.1420	0	0	0	0	0	0	0
	266.5940	16.0000	16.0000	16.2119	15.7849	0.2119	-0.2151	0.3019	0	0	0	8	0	0	0
	268.7500	16.0000	16.0000	15.7854	15.8391	-0.2146	-0.1609	0.2682	0	0	0	0	0	0	0
	271.3590	16.0000	16.0000	15.7441	16.0463	-0.2559	0.0463	0.2600	0	0	0	0	0	0	0
	273.6720	16.0000	16.0000	15.5810	15.9991	-0.4190	-0.0009	0.4190	7	0	0	0	0	0	0
	276.3280	16.0000	16.0000	16.1255	15.7752	0.1255	-0.2248	0.2574	0	0	0	7	0	0	0
	279.0000	16.0000	16.0000	15.7132	15.7193	-0.2868	-0.2807	0.4014	6	0	0	0	0	0	0
	281.5310	16.0000	16.0000	15.8745	16.1289	-0.1255	0.1289	0.1799	0	0	0	0	0	0	0
	283.8910	16.0000	16.0000	16.0739	16.1813	0.0739	0.1813	0.1958	0	0	0	0	0	0	0
	286.1090	16.0000	16.0000	16.0373	15.8679	0.0373	-0.1321	0.1373	0	0	0	0	0	0	0
	288.7190	16.0000	16.0000	16.0536	15.6789	0.0536	-0.3211	0.3256	0	0	0	9	0	0	0
	291.2500	16.0000	16.0000	15.5500	16.0094	-0.4500	0.0094	0.4501	8	0	0	0	0	0	0
	293.5470	16.0000	16.0000	16.2378	16.0574	0.2378	0.0574	0.2446	0	0	0	0	0	0	0
	295.9370	16.0000	16.0000	16.2025	15.7027	0.2025	-0.2973	0.3598	0	0	0	9	0	0	0
	298.5620	16.0000	16.0000	15.5119	16.4145	-0.4881	0.4145	0.6404	6	0	15	0	0	0	0
	301.3750	16.0000	16.0000	15.4519	16.4121	-0.5481	0.4121	0.6857	7	0	16	0	0	0	0
	303.5620	16.0000	16.0000	16.3057	16.4541	0.3057	0.4541	0.5474	0	8	8	0	0	0	0
	305.7340	16.0000	16.0000	15.4917	16.2209	-0.5083	0.2209	0.5542	8	0	10	0	0	0	0
	308.5160	16.0000	16.0000	15.3259	15.6773	-0.6741	-0.3227	0.7474	13	0	0	0	0	0	0
	310.9060	16.0000	16.0000	16.3357	15.8657	0.3357	-0.1343	0.3616	0	0	0	6	0	0	0
	313.4840	16.0000	16.0000	16.2851	16.1297	0.2851	0.1297	0.3132	0	0	0	0	0	0	0

 * m13_blu.00001145.M_13.FIT *

CCDSOFT Tracking Report
 Start Date Time = 2006-02-28T09:13:28.859
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

	Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
	0.0000	16.0000	16.0000	18.3536	16.1266	0.1266	2.3570	2.3570	0	40	0	16	0	0	0	0
	8.2500	16.0000	16.0000	16.5202	15.1346	0.5202	-0.8654	1.0097	0	0	0	0	28	0	0	0
	10.7970	16.0000	16.0000	16.6302	15.1867	0.6302	-0.8133	1.0289	0	0	0	0	28	0	0	0
	12.9070	16.0000	16.0000	16.1710	16.1491	0.1710	0.1491	0.2269	0	0	0	0	0	0	0	0
	17.4690	16.0000	16.0000	15.3924	15.6685	-0.6076	-0.3315	0.6922	12	0	0	0	0	0	0	0
	19.7350	16.0000	16.0000	15.8803	16.1960	-0.1197	0.1960	0.2297	0	0	6	0	0	0	0	0
	22.4380	16.0000	16.0000	16.3090	16.2392	0.3090	0.2392	0.3908	0	6	0	0	0	0	0	0
	24.8130	16.0000	16.0000	15.3954	15.8671	-0.1329	-0.6046	0.6191	11	0	0	0	0	0	0	0
	27.5630	16.0000	16.0000	15.3815	15.8393	-0.6185	-0.1607	0.6390	12	0	0	0	0	0	0	0
	29.8600	16.0000	16.0000	16.2923	16.1545	0.2923	0.1545	0.3306	0	0	0	0	0	0	0	0
	32.7030	16.0000	16.0000	16.3755	15.8737	0.3755	-0.1263	0.3962	0	0	0	6	0	0	0	0

35.1410	16.0000	16.0000	15.7280	15.5826	-0.2720	-0.4174	0.4982	7	0	0	8	0
37.8750	16.0000	16.0000	15.6487	15.8448	-0.3513	-0.1552	0.3840	7	0	0	0	0
40.2030	16.0000	16.0000	16.7027	16.0116	0.7027	0.0116	0.7027	0	12	0	0	0
42.4380	16.0000	16.0000	15.8528	15.9112	-0.1472	-0.0888	0.1719	0	0	0	0	0
44.9220	16.0000	16.0000	15.3223	15.4232	-0.6777	-0.5768	0.8899	15	0	0	9	0
47.3440	16.0000	16.0000	15.8702	16.5563	-0.1298	0.5563	0.5713	0	0	15	0	0
49.7500	16.0000	16.0000	16.2864	16.3638	0.2864	0.3638	0.4630	0	7	6	0	0
52.1570	16.0000	16.0000	16.1294	16.0529	0.1294	0.0529	0.1398	0	0	0	0	0
54.5470	16.0000	16.0000	16.1903	15.8002	0.1903	-0.1998	0.2759	0	0	0	7	0
56.9530	16.0000	16.0000	16.0984	15.9078	0.0984	-0.0922	0.1348	0	0	0	0	0
59.6720	16.0000	16.0000	16.3033	15.4279	0.3033	-0.5721	0.6475	0	0	0	18	0
62.0320	16.0000	16.0000	16.0809	15.6345	0.0809	-0.3655	0.3744	0	0	0	10	0
64.4690	16.0000	16.0000	15.4372	15.9282	-0.5628	-0.0718	0.5674	10	0	0	0	0
66.7190	16.0000	16.0000	16.4309	16.0313	0.4309	0.0313	0.4320	0	7	0	0	0
68.7030	16.0000	16.0000	16.2190	15.9389	0.2190	-0.0611	0.2274	0	0	0	0	0
71.1250	16.0000	16.0000	16.1049	15.5260	0.1049	-0.4740	0.4855	0	0	0	13	0
73.6570	16.0000	16.0000	15.3081	16.2356	-0.6919	0.2356	0.7309	11	0	12	0	0
76.0320	16.0000	16.0000	15.9803	16.5220	-0.0197	0.5220	0.5223	0	0	13	0	0
78.1720	16.0000	16.0000	15.8910	16.4944	-0.1090	0.4944	0.5062	0	0	13	0	0
80.8910	16.0000	16.0000	16.2561	15.8164	0.2561	-0.1836	0.3151	0	0	0	7	0
83.2190	16.0000	16.0000	16.1391	15.9105	0.1391	-0.0895	0.1654	0	0	0	0	0
85.1250	16.0000	16.0000	16.0161	16.0633	0.0161	0.0633	0.0653	0	0	0	0	0
87.2500	16.0000	16.0000	16.4766	16.1651	0.4766	0.1651	0.5044	0	8	0	0	0
89.2970	16.0000	16.0000	16.0452	16.0652	0.0452	0.0652	0.0793	0	0	0	0	0
91.2660	16.0000	16.0000	15.9932	15.8326	-0.0068	-0.1674	0.1676	0	0	0	0	0
93.3750	16.0000	16.0000	15.9669	15.7322	-0.0331	-0.2678	0.2698	0	0	0	7	0
95.8910	16.0000	16.0000	16.3190	16.1377	0.3190	0.1377	0.3475	0	6	0	0	0
98.3440	16.0000	16.0000	16.3414	15.8862	0.3414	-0.1138	0.3599	0	0	0	6	0
100.6250	16.0000	16.0000	16.3148	15.7606	0.3148	-0.2394	0.3956	0	0	0	9	0
103.4380	16.0000	16.0000	16.1998	15.4821	0.1998	-0.5179	0.5551	0	0	0	16	0
105.6410	16.0000	16.0000	16.2436	15.8917	0.2436	-0.1083	0.2666	0	0	0	0	0
107.8440	16.0000	16.0000	16.2503	15.6209	0.2503	-0.3791	0.4543	0	0	0	12	0
110.4380	16.0000	16.0000	16.0708	16.1376	0.0708	0.1376	0.1547	0	0	0	0	0
112.9220	16.0000	16.0000	15.8799	16.0859	-0.1201	0.0859	0.1476	0	0	0	0	0
115.2030	16.0000	16.0000	16.1617	16.0114	0.1617	0.0114	0.1621	0	0	0	0	0
117.6100	16.0000	16.0000	16.3218	16.1608	0.3218	0.1608	0.3598	0	6	0	0	0
120.0470	16.0000	16.0000	15.7991	16.1144	-0.2009	0.1144	0.2311	0	0	0	0	0
122.4850	16.0000	16.0000	15.3000	15.8033	-0.7000	-0.1967	0.7271	13	0	0	0	0
124.9220	16.0000	16.0000	16.2401	16.2230	0.2401	0.2230	0.3277	0	0	0	0	0
127.0780	16.0000	16.0000	16.2349	16.4646	0.2349	0.4646	0.5206	0	6	9	0	0
129.0940	16.0000	16.0000	16.1147	15.9069	0.1147	-0.0931	0.1477	0	0	0	0	0
131.4220	16.0000	16.0000	15.5074	15.9614	-0.4926	-0.0386	0.4941	8	0	0	0	0
133.6720	16.0000	16.0000	15.9168	15.8468	-0.0832	-0.1532	0.1743	0	0	0	0	0
136.4070	16.0000	16.0000	16.2234	15.7010	0.2234	-0.2990	0.3733	0	0	0	10	0
138.7660	16.0000	16.0000	16.0891	15.6982	0.0891	-0.3018	0.3147	0	0	0	8	0
141.4070	16.0000	16.0000	16.0294	16.0667	0.0294	0.0667	0.0729	0	0	0	0	0
143.9070	16.0000	16.0000	16.3328	15.9399	0.3328	-0.0601	0.3382	0	0	0	0	0
146.5320	16.0000	16.0000	16.2800	15.9526	0.2800	-0.0474	0.2840	0	0	0	0	0
148.9220	16.0000	16.0000	16.2868	16.1593	0.2868	0.1593	0.3281	0	0	0	0	0
151.1880	16.0000	16.0000	16.8174	16.1748	0.8174	0.1748	0.8359	0	15	0	0	0
154.0000	16.0000	16.0000	16.5060	15.9864	0.5060	-0.0136	0.5062	0	8	0	0	0
156.1880	16.0000	16.0000	16.1073	15.7102	0.1073	-0.2898	0.3091	0	0	0	8	0
158.2970	16.0000	16.0000	16.0271	16.0562	0.0271	0.0562	0.0624	0	0	0	0	0
160.5000	16.0000	16.0000	16.1005	15.9702	0.1005	-0.0298	0.1048	0	0	0	0	0
163.2970	16.0000	16.0000	16.4210	15.9472	0.4210	-0.0528	0.4243	0	7	0	0	0
165.6410	16.0000	16.0000	16.3069	15.7586	0.3069	-0.2414	0.3905	0	0	0	9	0
168.0320	16.0000	16.0000	16.0200	16.0371	0.0200	0.0371	0.0421	0	0	0	0	0
170.5160	16.0000	16.0000	15.8899	16.1905	-0.1101	0.1905	0.2201	0	0	0	0	0
172.7660	16.0000	16.0000	15.8722	15.9532	-0.1278	-0.0468	0.1361	0	0	0	0	0
175.4220	16.0000	16.0000	16.8085	16.0436	0.8085	0.0436	0.8097	0	14	0	0	0
177.7970	16.0000	16.0000	15.7086	15.6579	-0.2914	-0.3421	0.4494	7	0	0	7	0
180.6100	16.0000	16.0000	15.5914	15.9185	-0.4086	-0.0815	0.4167	8	0	0	0	0
183.0160	16.0000	16.0000	16.3829	16.1958	0.3829	0.1958	0.4300	0	8	0	0	0
185.4690	16.0000	16.0000	16.3328	16.0519	0.3328	0.0519	0.3369	0	0	0	0	0
188.0160	16.0000	16.0000	16.0384	16.0048	0.0384	0.0048	0.0387	0	0	0	0	0
190.2350	16.0000	16.0000	16.5307	16.1124	0.5307	0.1124	0.5424	0	9	0	0	0
192.7350	16.0000	16.0000	16.4347	15.8984	0.4347	-0.1016	0.4464	0	7	0	6	0
195.2350	16.0000	16.0000	16.1735	16.0078	0.1735	0.0078	0.1737	0	0	0	0	0
198.2030	16.0000	16.0000	16.0025	15.5124	0.0025	-0.4876	0.4876	0	0	0	13	0
200.5940	16.0000	16.0000	16.0631	16.3229	0.0631	0.3229	0.3290	0	0	8	0	0
203.1410	16.0000	16.0000	16.1300	16.4473	0.1300	0.4473	0.4658	0	0	10	0	0
205.5470	16.0000	16.0000	15.9203	16.0367	-0.0797	0.0367	0.0877	0	0	0	0	0
208.1410	16.0000	16.0000	15.9609	16.1811	-0.0391	0.1811	0.1852	0	0	0	0	0
210.6720	16.0000	16.0000	16.0045	16.5704	0.0045	0.5704	0.5704	0	0	14	0	0
212.8130	16.0000	16.0000	16.1768	16.1423	0.1768	0.1423	0.2270	0	0	0	0	0
215.3600	16.0000	16.0000	15.9780	16.0304	-0.0220	0.0304	0.0375	0	0	0	0	0
217.5780	16.0000	16.0000	15.3696	15.6856	-0.6304	-0.3144	0.7044	12	0	0	0	0
219.4850	16.0000	16.0000	16.1490	15.8305	0.1490	-0.1695	0.2257	0	0	0	0	0
221.7190	16.0000	16.0000	16.3296	16.0336	0.3296	0.0336	0.3314	0	0	0	0	0
223.9070	16.0000	16.0000	16.8418	15.9616	0.8418	-0.0384	0.8427	0	14	0	8	0
226.0940	16.0000	16.0000	15.8096	15.6220	-0.1904	-0.3780	0.4232	0	0	0	8	0
228.8750	16.0000	16.0000	15.7904	15.3881	-0.2096	-0.6119	0.6468	7	0	0	15	0
231.2970	16.0000	16.0000	16.4063	15.6303	0.4063	-0.3697	0.5493	0	0	0	13	0
233.7660	16.0000	16.0000	15.9687	15.7457	-0.0313	-0.2543	0.2562	0	0	0	6	0

	236.2820	16.0000	16.0000	15.7654	16.1158	-0.2346	0.1158	0.2616	0	0	0	0	0	0	0
	238.3600	16.0000	16.0000	15.9111	16.0696	-0.0889	0.0696	0.1129	0	0	0	0	0	0	0
	240.9220	16.0000	16.0000	16.0360	16.0389	0.0360	0.0389	0.0530	0	0	0	0	0	0	0
	243.3910	16.0000	16.0000	16.3402	16.3222	0.3402	0.3222	0.4686	0	8	0	0	0	0	0
	245.7350	16.0000	16.0000	15.8023	15.7130	-0.1977	-0.2870	0.3485	0	0	0	6	0	0	0
	248.4220	16.0000	16.0000	15.8949	16.4257	-0.1051	0.4257	0.4385	0	0	12	0	0	0	0
	250.7660	16.0000	16.0000	16.2295	16.6269	0.2295	0.6269	0.6676	0	8	14	0	0	0	0
	253.2350	16.0000	16.0000	15.8791	15.9531	-0.1209	-0.0469	0.1297	0	0	0	0	0	0	0
	255.8130	16.0000	16.0000	15.7356	15.7120	-0.2644	-0.2880	0.3909	6	0	0	0	0	0	0
	257.8910	16.0000	16.0000	15.7734	15.6737	-0.2266	-0.3263	0.3972	0	0	0	0	7	0	0
	260.0630	16.0000	16.0000	15.9753	15.7698	-0.0247	-0.2302	0.2315	0	0	0	6	0	0	0
	262.0160	16.0000	16.0000	16.1558	15.8142	0.1558	-0.1858	0.2425	0	0	0	6	0	0	0
	264.3750	16.0000	16.0000	16.2083	15.6206	0.2083	-0.3794	0.4328	0	0	0	12	0	0	0
	266.6410	16.0000	16.0000	15.7298	15.6826	-0.2702	-0.3174	0.4168	6	0	0	6	0	0	0
	269.1410	16.0000	16.0000	15.9300	15.9081	-0.0700	-0.0919	0.1155	0	0	0	0	0	0	0
	271.4850	16.0000	16.0000	16.1270	15.7291	0.1270	-0.2709	0.2992	0	0	0	8	0	0	0
	274.2350	16.0000	16.0000	15.6827	16.2734	-0.3173	0.2734	0.4188	0	0	10	0	0	0	0
	276.5780	16.0000	16.0000	15.8389	16.3468	-0.1611	0.3468	0.3824	0	0	10	0	0	0	0
	279.0780	16.0000	16.0000	16.3599	16.3758	0.3599	0.3758	0.5204	0	8	6	0	0	0	0
	281.4380	16.0000	16.0000	15.9122	15.9916	-0.0878	-0.0084	0.0882	0	0	0	0	0	0	0
	283.8280	16.0000	16.0000	15.4502	15.9317	-0.5498	-0.0683	0.5540	10	0	0	0	0	0	0
	286.5630	16.0000	16.0000	16.4335	15.8867	0.4335	-0.1133	0.4481	0	6	0	7	0	0	0
	288.7660	16.0000	16.0000	16.3273	15.8864	0.3273	-0.1136	0.3465	0	0	0	0	0	0	0
	291.7190	16.0000	16.0000	16.3880	15.9095	0.3880	-0.0905	0.3984	0	6	0	0	0	0	0
	294.1250	16.0000	16.0000	15.8118	15.4317	-0.1882	-0.5683	0.5987	6	0	0	14	0	0	0
	296.9070	16.0000	16.0000	15.8718	15.3880	-0.1282	-0.6120	0.6253	0	0	0	16	0	0	0
	299.2190	16.0000	16.0000	15.9469	15.7937	-0.0531	-0.2063	0.2131	0	0	0	0	0	0	0
	302.1880	16.0000	16.0000	15.9015	15.6786	-0.0985	-0.3214	0.3361	0	0	0	8	0	0	0
	304.7820	16.0000	16.0000	15.4182	15.6752	-0.5818	-0.3248	0.6663	12	0	0	0	0	0	0
	307.3440	16.0000	16.0000	16.0197	15.6235	0.0197	-0.3765	0.3770	0	0	0	10	0	0	0
	309.5780	16.0000	16.0000	15.9178	16.1663	-0.0822	0.1663	0.1855	0	0	0	0	0	0	0
	312.1410	16.0000	16.0000	15.5848	15.9773	-0.4152	-0.0227	0.4158	7	0	0	0	0	0	0
	314.3910	16.0000	16.0000	15.4795	15.9488	-0.5205	-0.0512	0.5230	9	0	0	0	0	0	0

 * m13_blu.00001146.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T09:18:49.484
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 1.00
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	15.7238	17.5158	-0.2762	1.5158	1.5408	0	0	41	0	0
	8.4370	16.0000	16.0000	16.0883	17.7401	0.0883	1.7401	1.7424	0	12	44	0	0
	11.0930	16.0000	16.0000	15.4305	17.3537	-0.5695	1.3537	1.4686	0	0	40	0	0
	13.6090	16.0000	16.0000	15.5601	17.0774	-0.4399	1.0774	1.1637	0	0	32	0	0
	16.1870	16.0000	16.0000	15.9169	17.0780	-0.0831	1.0780	1.0812	0	0	28	0	0
	18.6720	16.0000	16.0000	16.0149	17.2323	0.0149	1.2323	1.2324	0	7	32	0	0
	21.2970	16.0000	16.0000	15.6614	16.9524	-0.3386	0.9524	1.0108	0	0	28	0	0
	23.8280	16.0000	16.0000	15.4883	16.9999	-0.5117	0.9999	1.1232	0	0	30	0	0
	26.3280	16.0000	16.0000	15.9136	16.7001	-0.0864	0.7001	0.7054	0	0	19	0	0
	28.4680	16.0000	16.0000	15.8066	16.4967	-0.1934	0.4967	0.5330	0	0	14	0	0
	30.7650	16.0000	16.0000	15.9452	16.3197	-0.0548	0.3197	0.3244	0	0	8	0	0
	34.7650	16.0000	16.0000	15.9239	15.7912	-0.0761	-0.2088	0.2222	0	0	0	0	0
	36.9840	16.0000	16.0000	16.1062	15.8140	0.1062	-0.1860	0.2142	0	0	6	0	0
	39.8900	16.0000	16.0000	15.9531	15.6072	-0.0469	-0.3928	0.3955	0	0	0	10	0
	42.0780	16.0000	16.0000	15.3942	15.4884	-0.6058	-0.5116	0.7929	13	0	8	0	0
	44.2340	16.0000	16.0000	16.1436	15.8395	0.1436	-0.1605	0.2153	0	0	0	0	0
	47.0930	16.0000	16.0000	16.4128	15.5647	0.4128	-0.4353	0.5999	0	0	0	15	0
	49.0470	16.0000	16.0000	15.8683	15.4104	-0.1317	-0.5896	0.6041	0	0	0	15	0
	51.5150	16.0000	16.0000	15.8659	15.1100	-0.1341	-0.8900	0.9000	7	0	0	23	0
	54.2180	16.0000	16.0000	16.6195	15.5173	0.6195	-0.4827	0.7859	0	8	0	18	0
	56.5620	16.0000	16.0000	16.0386	15.0594	0.0386	-0.9406	0.9414	0	0	0	26	0

59.4840	16.0000	16.0000	15.7427	14.8437	-0.2573	-1.1563	1.1845	11	0	0	29	0	0
61.7970	16.0000	16.0000	16.2658	14.8865	0.2658	-1.1135	1.1448	0	0	0	32	0	0
64.6090	16.0000	16.0000	16.5084	15.0055	0.5084	-0.9945	1.1169	0	0	0	32	0	0
67.3280	16.0000	16.0000	16.7630	14.8001	0.7630	-1.1999	1.4219	0	0	0	40	0	0
70.0150	16.0000	16.0000	16.2036	14.7925	0.2036	-1.2075	1.2246	0	0	0	35	0	0
72.4530	16.0000	16.0000	16.2666	14.7901	0.2666	-1.2099	1.2389	0	0	0	35	0	0
75.0780	16.0000	16.0000	16.0924	15.5001	0.0924	-0.4999	0.5083	0	0	0	14	0	0
77.5780	16.0000	16.0000	15.6805	15.8002	-0.3195	-0.1998	0.3768	6	0	0	0	0	0
80.2500	16.0000	16.0000	16.0436	15.7321	0.0436	-0.2679	0.2715	0	0	0	8	0	0
82.2340	16.0000	16.0000	16.1278	16.0587	0.1278	0.0587	0.1406	0	0	0	0	0	0
84.4840	16.0000	16.0000	16.0297	15.9293	0.0297	-0.0707	0.0767	0	0	0	0	0	0
86.7810	16.0000	16.0000	15.7616	15.9014	-0.2384	-0.0986	0.2580	0	0	0	0	0	0
89.4530	16.0000	16.0000	15.3151	15.4977	-0.6849	-0.5023	0.8494	15	0	0	8	0	0
91.9370	16.0000	16.0000	15.9134	16.1366	-0.0866	0.1366	0.1618	0	0	0	0	0	0
94.4530	16.0000	16.0000	16.1341	15.9602	0.1341	-0.0398	0.1399	0	0	0	0	0	0
96.6720	16.0000	16.0000	15.5590	15.9847	-0.4410	-0.0153	0.4413	8	0	0	0	0	0
99.1400	16.0000	16.0000	15.9129	15.8714	-0.0871	-0.1286	0.1553	0	0	0	0	0	0
101.5930	16.0000	16.0000	16.2770	16.0138	0.2770	0.0138	0.2774	0	0	0	0	0	0
103.7340	16.0000	16.0000	16.0970	15.8960	0.0970	-0.1040	0.1422	0	0	0	0	0	0
105.8750	16.0000	16.0000	15.8898	15.8439	-0.1102	-0.1561	0.1911	0	0	0	0	0	0
107.9680	16.0000	16.0000	16.2366	15.5549	0.2366	-0.4451	0.5040	0	0	0	14	0	0
110.8750	16.0000	16.0000	16.2553	16.4210	0.2553	0.4210	0.4924	0	7	8	0	0	0
113.0930	16.0000	16.0000	16.0837	15.9229	0.0837	-0.0771	0.1138	0	0	0	0	0	0
115.3750	16.0000	16.0000	16.0289	16.0340	0.0289	0.0340	0.0447	0	0	0	0	0	0
117.7650	16.0000	16.0000	15.8563	16.1539	-0.1437	0.1539	0.2106	0	0	0	0	0	0
120.3120	16.0000	16.0000	16.1659	16.3516	0.1659	0.3516	0.3888	0	0	7	0	0	0
122.6400	16.0000	16.0000	16.3748	16.0561	0.3748	0.0561	0.3790	0	6	0	0	0	0
125.0470	16.0000	16.0000	16.0043	15.8626	0.0043	-0.1374	0.1375	0	0	0	0	0	0
127.5930	16.0000	16.0000	15.9591	15.6787	-0.0409	-0.3213	0.3239	0	0	0	8	0	0
130.0000	16.0000	16.0000	15.9583	15.8311	-0.0417	-0.1689	0.1740	0	0	0	0	0	0
132.7500	16.0000	16.0000	16.3713	15.6693	0.3713	-0.3307	0.4972	0	0	0	12	0	0
135.5000	16.0000	16.0000	16.0940	15.8079	0.0940	-0.1921	0.2139	0	0	0	6	0	0
137.8430	16.0000	16.0000	15.7560	15.7617	-0.2440	-0.2383	0.3410	0	0	0	0	0	0
140.4060	16.0000	16.0000	15.9872	15.9082	-0.0128	-0.0918	0.0926	0	0	0	0	0	0
142.8280	16.0000	16.0000	16.0632	15.8527	0.0632	-0.1473	0.1603	0	0	0	0	0	0
145.0470	16.0000	16.0000	15.7789	15.6648	-0.2211	-0.3352	0.4015	0	0	0	7	0	0
147.7650	16.0000	16.0000	15.5480	15.8741	-0.4520	-0.1259	0.4692	8	0	0	0	0	0
149.9530	16.0000	16.0000	16.2793	16.1885	0.2793	0.1885	0.3370	0	0	0	0	0	0
151.8430	16.0000	16.0000	16.2141	16.1253	0.2141	0.1253	0.2480	0	0	0	0	0	0
153.9370	16.0000	16.0000	15.9520	15.8428	-0.0480	-0.1572	0.1644	0	0	0	0	0	0
156.0470	16.0000	16.0000	16.1792	15.9860	0.1792	-0.0140	0.1797	0	0	0	0	0	0
158.2030	16.0000	16.0000	16.4072	16.0055	0.4072	0.0055	0.4072	0	7	0	0	0	0
160.7180	16.0000	16.0000	16.2905	15.9036	0.2905	-0.0964	0.3060	0	0	0	0	0	0
163.1720	16.0000	16.0000	16.1986	15.8193	0.1986	-0.1807	0.2685	0	0	0	6	0	0
165.4530	16.0000	16.0000	16.0951	15.9458	0.0951	-0.0542	0.1095	0	0	0	0	0	0
168.2970	16.0000	16.0000	16.2532	15.6552	0.2532	-0.3448	0.4278	0	0	0	12	0	0
170.5930	16.0000	16.0000	16.1633	15.9500	0.1633	-0.0500	0.1708	0	0	0	0	0	0
173.2030	16.0000	16.0000	15.9823	16.1632	-0.0177	0.1632	0.1642	0	0	0	0	0	0
175.5470	16.0000	16.0000	15.8553	15.8843	-0.1447	-0.1157	0.1852	0	0	0	0	0	0
177.8280	16.0000	16.0000	15.8538	15.8899	-0.1462	-0.1101	0.1830	0	0	0	0	0	0
180.2340	16.0000	16.0000	15.9950	15.9511	-0.0050	-0.0489	0.0492	0	0	0	0	0	0
182.7500	16.0000	16.0000	15.2687	15.7531	-0.7313	-0.2469	0.7719	14	0	0	0	0	0
185.1090	16.0000	16.0000	15.7888	15.6040	-0.2112	-0.3960	0.4488	0	0	0	8	0	0
187.6870	16.0000	16.0000	15.6233	15.9960	-0.3767	-0.0040	0.3767	6	0	0	0	0	0
189.9060	16.0000	16.0000	16.1706	16.0934	0.1706	0.0934	0.1945	0	0	0	0	0	0
192.1870	16.0000	16.0000	15.5134	15.8771	-0.4866	-0.1229	0.5019	9	0	0	0	0	0
194.4840	16.0000	16.0000	15.7488	15.7721	-0.2512	-0.2279	0.3391	0	0	0	0	0	0
196.7180	16.0000	16.0000	16.1591	15.9336	0.1591	-0.0664	0.1724	0	0	0	0	0	0
198.9060	16.0000	16.0000	16.1886	15.8555	0.1886	-0.1445	0.2376	0	0	0	0	0	0
201.3280	16.0000	16.0000	15.8463	15.4983	-0.1537	-0.5017	0.5247	0	0	0	12	0	0
203.9220	16.0000	16.0000	15.6968	15.8989	-0.3032	-0.1011	0.3196	0	0	0	0	0	0
206.2650	16.0000	16.0000	16.1155	15.9677	0.1155	-0.0323	0.1199	0	0	0	0	0	0
208.5310	16.0000	16.0000	15.9792	15.8169	-0.0208	-0.1831	0.1843	0	0	0	0	0	0
211.0930	16.0000	16.0000	15.8878	15.7484	-0.1122	-0.2516	0.2755	0	0	0	0	0	0
213.7030	16.0000	16.0000	15.7159	15.6185	-0.2841	-0.3815	0.4757	7	0	0	8	0	0
216.1560	16.0000	16.0000	15.9358	16.0663	-0.0642	0.0663	0.0922	0	0	0	0	0	0
218.5930	16.0000	16.0000	15.9929	16.3065	-0.0071	0.3065	0.3066	0	0	8	0	0	0
220.7180	16.0000	16.0000	15.9510	15.9475	-0.0490	-0.0525	0.0718	0	0	0	0	0	0
222.9060	16.0000	16.0000	15.7922	15.8327	-0.2078	-0.1673	0.2668	0	0	0	0	0	0
225.1870	16.0000	16.0000	15.9695	16.0365	-0.0305	0.0365	0.0476	0	0	0	0	0	0
227.5620	16.0000	16.0000	16.1574	15.6515	0.1574	-0.3485	0.3824	0	0	0	11	0	0
229.7810	16.0000	16.0000	15.8336	15.8602	-0.1664	-0.1398	0.2173	0	0	0	0	0	0
232.1720	16.0000	16.0000	15.2238	15.5744	-0.7762	-0.4256	0.8852	16	0	0	0	0	0
234.5150	16.0000	16.0000	15.9425	15.6005	-0.0575	-0.3995	0.4037	0	0	0	10	0	0
237.0470	16.0000	16.0000	16.0358	15.9644	0.0358	-0.0336	0.0491	0	0	0	0	0	0
239.3430	16.0000	16.0000	15.8971	15.6680	-0.1029	-0.3320	0.3476	0	0	0	8	0	0
242.0780	16.0000	16.0000	15.5232	15.9389	-0.4768	-0.0611	0.4807	8	0	0	0	0	0
244.3750	16.0000	16.0000	16.0848	16.0575	0.0848	0.0575	0.1024	0	0	0	0	0	0
246.9220	16.0000	16.0000	16.0610	16.0679	0.0610	0.0679	0.0913	0	0	0	0	0	0
249.3280	16.0000	16.0000	15.9411	16.1188	-0.0589	0.1188	0.1326	0	0	0	0	0	0
251.3430	16.0000	16.0000	15.8671	16.0353	-0.1329	0.0353	0.1375	0	0	0	0	0	0
253.4220	16.0000	16.0000	16.1049	15.8312	0.1049	-0.1688	0.1987	0	0	0	0	0	0
255.4370	16.0000	16.0000	16.2741	15.9641	0.2741	-0.0359	0.2765	0	0	0	0	0	0
257.7500	16.0000	16.0000	16.2754	16.2769	0.2754	0.2769	0.3905	0	6	0	0	0	0

	260.2970	16.0000	16.0000	15.8509	15.8809	-0.1491	-0.1191	0.1908	0	0	0	0	0	0
	262.6870	16.0000	16.0000	16.2413	15.7310	0.2413	-0.2690	0.3613	0	0	0	9	0	0
	264.9530	16.0000	16.0000	16.1296	16.0076	0.1296	0.0076	0.1298	0	0	0	0	0	0
	267.3120	16.0000	16.0000	16.0218	15.9457	0.0218	-0.0543	0.0585	0	0	0	0	0	0
	269.6560	16.0000	16.0000	15.8648	15.8059	-0.1352	-0.1941	0.2365	0	0	0	0	0	0
	271.9680	16.0000	16.0000	15.8252	15.5730	-0.1748	-0.4270	0.4614	0	0	0	10	0	0
	274.3280	16.0000	16.0000	15.6012	16.0300	-0.3988	0.0300	0.3999	7	0	0	0	0	0
	276.7030	16.0000	16.0000	15.9543	15.9005	-0.0457	-0.0995	0.1095	0	0	0	0	0	0
	279.6400	16.0000	16.0000	15.3970	15.7096	-0.6030	-0.2904	0.6692	12	0	0	0	0	0
	281.8750	16.0000	16.0000	16.0490	15.8525	0.0490	-0.1475	0.1554	0	0	0	0	0	0
	284.4220	16.0000	16.0000	16.1341	15.8073	0.1341	-0.1927	0.2348	0	0	0	6	0	0
	286.4530	16.0000	16.0000	16.0207	15.9242	0.0207	-0.0758	0.0786	0	0	0	0	0	0
	288.7180	16.0000	16.0000	15.6577	15.8101	-0.3423	-0.1899	0.3915	7	0	0	0	0	0
	291.0930	16.0000	16.0000	15.8637	15.9898	-0.1363	-0.0102	0.1367	0	0	0	0	0	0
	293.7340	16.0000	16.0000	16.1891	15.8421	0.1891	-0.1579	0.2464	0	0	0	0	0	0
	296.1250	16.0000	16.0000	16.3138	15.7891	0.3138	-0.2109	0.3780	0	0	0	8	0	0
	298.3280	16.0000	16.0000	15.9652	16.0661	-0.0348	0.0661	0.0746	0	0	0	0	0	0
	300.7340	16.0000	16.0000	16.2795	16.0703	0.2795	0.0703	0.2882	0	0	0	0	0	0
	302.9060	16.0000	16.0000	16.4826	16.0613	0.4826	0.0613	0.4864	0	8	0	0	0	0
	304.9840	16.0000	16.0000	15.7710	15.7765	-0.2290	-0.2235	0.3200	0	0	0	0	0	0
	307.0310	16.0000	16.0000	15.8375	15.7451	-0.1625	-0.2549	0.3024	0	0	0	0	0	0
	309.3430	16.0000	16.0000	15.9085	15.5810	-0.0915	-0.4190	0.4288	0	0	0	10	0	0
	311.7810	16.0000	16.0000	15.8956	15.9924	-0.1044	-0.0076	0.1046	0	0	0	0	0	0
	314.3280	16.0000	16.0000	16.0229	15.9550	0.0229	-0.0450	0.0505	0	0	0	0	0	0
	316.5930	16.0000	16.0000	15.8198	15.8585	-0.1802	-0.1415	0.2291	0	0	0	0	0	0
	319.0470	16.0000	16.0000	15.8658	15.7680	-0.1342	-0.2320	0.2680	0	0	0	0	0	0
	321.1720	16.0000	16.0000	15.9418	15.7774	-0.0582	-0.2226	0.2301	0	0	0	0	0	0
	323.4220	16.0000	16.0000	16.2733	15.7973	0.2733	-0.2027	0.3403	0	0	0	8	0	0
	325.8590	16.0000	16.0000	16.0522	16.2853	0.0522	0.2853	0.2900	0	0	0	7	0	0
	328.5620	16.0000	16.0000	15.6750	15.8090	-0.3250	-0.1910	0.3770	7	0	0	0	0	0
	330.7180	16.0000	16.0000	16.3328	15.7967	0.3328	-0.2033	0.3900	0	0	0	8	0	0
	333.0310	16.0000	16.0000	16.5546	15.8788	0.5546	-0.1212	0.5676	0	8	0	8	0	0

 * m13_lum.00001147.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T09:30:36.718
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 7.55
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

	Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	16.3569	15.7137	0.3569	-0.2863	0.4575	0	0	0	0	11	0
	26.3900	16.0000	16.0000	16.2252	15.5027	0.2252	-0.4973	0.5460	0	0	0	0	16	0
	34.7650	16.0000	16.0000	16.1334	15.8130	0.1334	-0.1870	0.2297	0	0	0	0	6	0
	44.7810	16.0000	16.0000	16.7863	15.9363	0.7863	-0.0637	0.7889	0	12	0	0	8	0
	53.2340	16.0000	16.0000	16.5821	15.7868	0.5821	-0.2132	0.6199	0	8	0	0	11	0
	61.2650	16.0000	16.0000	16.1906	15.8784	0.1906	-0.1216	0.2260	0	0	0	0	0	0
	70.0000	16.0000	16.0000	15.7793	15.4011	-0.2207	-0.5989	0.6382	7	0	0	0	14	0
	79.0150	16.0000	16.0000	15.8486	15.6633	-0.1514	-0.3367	0.3692	0	0	0	0	8	0
	87.2970	16.0000	16.0000	15.8612	15.7412	-0.1388	-0.2588	0.2937	0	0	0	0	0	0
	95.6090	16.0000	16.0000	16.0147	15.2915	0.0147	-0.7085	0.7085	0	0	0	0	20	0
	104.3900	16.0000	16.0000	15.7501	15.9515	-0.2499	-0.0485	0.2546	0	0	0	0	0	0
	113.2500	16.0000	16.0000	15.4874	15.6953	-0.5126	-0.3047	0.5963	10	0	0	0	0	0
	122.0000	16.0000	16.0000	15.8508	15.4174	-0.1492	-0.5826	0.6014	0	0	0	0	14	0
	130.4680	16.0000	16.0000	16.1185	15.8080	0.1185	-0.1920	0.2256	0	0	0	0	6	0
	138.7810	16.0000	16.0000	16.2098	15.7543	0.2098	-0.2457	0.3231	0	0	0	0	8	0
	147.0930	16.0000	16.0000	16.0051	15.7780	0.0051	-0.2220	0.2220	0	0	0	0	6	0
	155.4840	16.0000	16.0000	15.7595	15.7163	-0.2405	-0.2837	0.3719	0	0	0	0	0	0
	163.9060	16.0000	16.0000	15.5062	15.0964	-0.4938	-0.9036	1.0297	13	0	0	0	20	0
	171.9680	16.0000	16.0000	15.6941	16.0288	-0.3059	0.0288	0.3073	0	0	0	0	0	0
	180.2650	16.0000	16.0000	16.1360	15.7861	0.1360	-0.2139	0.2535	0	0	0	0	7	0
	188.5150	16.0000	16.0000	16.1361	15.9536	0.1361	-0.0464	0.1438	0	0	0	0	0	0
	196.7340	16.0000	16.0000	16.4177	15.6908	0.4177	-0.3092	0.5197	0	0	0	0	12	0

	204.9840	16.0000	16.0000	16.4279	15.8577	0.4279	-0.1423	0.4510	0	6	0	8	0	0
	213.5780	16.0000	16.0000	16.0026	15.7873	0.0026	-0.2127	0.2127	0	0	0	0	0	0
	222.5310	16.0000	16.0000	16.1958	15.3526	0.1958	-0.6474	0.6764	0	0	0	19	0	0
	230.7030	16.0000	16.0000	16.3108	16.0712	0.3108	0.0712	0.3188	0	0	0	0	0	0
	239.2650	16.0000	16.0000	16.6245	15.8088	0.6245	-0.1912	0.6531	0	9	0	10	0	0
	247.5150	16.0000	16.0000	16.2938	15.8245	0.2938	-0.1755	0.3422	0	0	0	7	0	0
	255.9680	16.0000	16.0000	16.2642	15.8351	0.2642	-0.1649	0.3115	0	0	0	7	0	0
	264.6720	16.0000	16.0000	16.1709	15.8300	0.1709	-0.1700	0.2411	0	0	0	6	0	0
	273.3120	16.0000	16.0000	16.3157	15.7747	0.3157	-0.2253	0.3879	0	0	0	8	0	0
	281.6560	16.0000	16.0000	16.3023	15.7170	0.3023	-0.2830	0.4141	0	0	0	10	0	0
	289.7970	16.0000	16.0000	16.1291	15.8512	0.1291	-0.1488	0.1970	0	0	0	0	0	0
	298.2340	16.0000	16.0000	15.8918	15.3419	-0.1082	-0.6581	0.6670	0	0	0	16	0	0
	306.9840	16.0000	16.0000	15.6335	15.8298	-0.3665	-0.1702	0.4041	7	0	0	0	0	0
	315.2810	16.0000	16.0000	15.7659	15.6379	-0.2341	-0.3621	0.4312	6	0	0	8	0	0
	323.7500	16.0000	16.0000	15.8235	15.4764	-0.1765	-0.5236	0.5526	6	0	0	12	0	0
	331.9060	16.0000	16.0000	16.0442	15.8543	0.0442	-0.1457	0.1523	0	0	0	0	0	0
	340.1870	16.0000	16.0000	15.9858	15.3816	-0.0142	-0.6184	0.6186	0	0	0	16	0	0
	348.2970	16.0000	16.0000	15.4619	15.7016	-0.5381	-0.2984	0.6153	11	0	0	0	0	0
	357.0310	16.0000	16.0000	15.2539	15.1899	-0.7461	-0.8101	1.1013	17	0	0	16	0	0
	365.7810	16.0000	16.0000	15.3236	15.7130	-0.6764	-0.2870	0.7347	13	0	0	0	0	0
	374.2500	16.0000	16.0000	15.5156	15.6592	-0.4844	-0.3408	0.5922	10	0	0	0	0	0
	382.5150	16.0000	16.0000	15.7138	15.2472	-0.2862	-0.7528	0.8053	9	0	0	18	0	0
	390.8430	16.0000	16.0000	15.6894	15.8696	-0.3106	-0.1304	0.3369	6	0	0	0	0	0
	399.5000	16.0000	16.0000	15.6859	15.5371	-0.3141	-0.4629	0.5595	8	0	0	10	0	0
	408.1720	16.0000	16.0000	15.5141	15.8802	-0.4859	-0.1198	0.5004	9	0	0	0	0	0
	416.5930	16.0000	16.0000	15.4242	15.5737	-0.5758	-0.4263	0.7164	12	0	0	6	0	0
	425.1090	16.0000	16.0000	15.8713	15.3897	-0.1287	-0.6103	0.6237	0	0	0	16	0	0
	434.0470	16.0000	16.0000	15.5626	15.8990	-0.4374	-0.1010	0.4489	8	0	0	0	0	0
	442.6250	16.0000	16.0000	15.4663	15.2649	-0.5337	-0.7351	0.9084	13	0	0	15	0	0
	451.0000	16.0000	16.0000	15.0968	15.7017	-0.9032	-0.2983	0.9512	17	0	0	0	0	0
	459.3280	16.0000	16.0000	15.3954	15.3983	-0.6046	-0.6017	0.8530	14	0	0	11	0	0
	468.1720	16.0000	16.0000	15.6679	15.7538	-0.3321	-0.2462	0.4134	7	0	0	0	0	0
	476.5620	16.0000	16.0000	16.0859	15.5785	0.0859	-0.4215	0.4302	0	0	0	12	0	0
	484.8430	16.0000	16.0000	16.1648	15.9063	0.1648	-0.0937	0.1896	0	0	0	0	0	0

 * m13_lum.00001148.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T09:38:52.218
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 7.55
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	13.9409	15.0371	-2.0591	-0.9629	2.2731	41	0	0	8	0
	26.3440	16.0000	16.0000	16.2912	15.5963	0.2912	-0.4037	0.4978	0	0	0	13	0
	34.9380	16.0000	16.0000	16.4477	16.0037	0.4477	0.0037	0.4478	0	8	0	0	0
	43.3130	16.0000	16.0000	16.3652	15.6233	0.3652	-0.3767	0.5247	0	0	0	13	0
	53.2190	16.0000	16.0000	16.1340	15.7264	0.1340	-0.2736	0.3047	0	0	0	0	0
	61.8750	16.0000	16.0000	16.0055	15.7817	0.0055	-0.2183	0.2184	0	0	0	6	0
	70.5000	16.0000	16.0000	16.3646	15.7574	0.3646	-0.2426	0.4379	0	0	0	9	0
	78.7970	16.0000	16.0000	16.6182	15.9730	0.6182	-0.0270	0.6188	0	10	0	6	0
	86.9220	16.0000	16.0000	16.2811	15.9295	0.2811	-0.0705	0.2898	0	0	0	0	0
	95.8290	16.0000	16.0000	16.6391	15.7709	0.6391	-0.2291	0.6789	0	9	0	12	0
	104.3750	16.0000	16.0000	16.1852	15.8047	0.1852	-0.1953	0.2691	0	0	0	7	0
	113.2970	16.0000	16.0000	16.3856	15.8342	0.3856	-0.1658	0.4197	0	0	0	0	0
	121.7350	16.0000	16.0000	16.6948	15.9773	0.6948	-0.0227	0.6952	0	12	0	6	0
	130.2660	16.0000	16.0000	16.3139	15.7302	0.3139	-0.2698	0.4139	0	0	0	10	0
	138.9070	16.0000	16.0000	16.0585	15.9729	0.0585	-0.0271	0.0585	0	0	0	0	0
	147.2500	16.0000	16.0000	15.7313	15.5395	-0.2687	-0.4605	0.5331	7	0	0	10	0
	155.7660	16.0000	16.0000	16.0525	15.7618	0.0525	-0.2382	0.2440	0	0	0	7	0
	164.1720	16.0000	16.0000	16.1649	15.7965	0.1649	-0.2035	0.2620	0	0	0	7	0
	172.9380	16.0000	16.0000	16.4741	16.0146	0.4741	0.0146	0.4744	0	8	0	0	0
	181.4690	16.0000	16.0000	16.3937	15.5615	0.3937	-0.4385	0.5894	0	0	0	15	0

	189.6410	16.0000	16.0000	16.0017	15.9327	0.0017	-0.0673	0.0673	0	0	0	0	0	0	0
	197.9070	16.0000	16.0000	16.1292	15.6787	0.1292	-0.3213	0.3463	0	0	0	9	0	0	0
	206.3290	16.0000	16.0000	16.0230	15.7163	0.0230	-0.2837	0.2847	0	0	0	8	0	0	0
	214.4690	16.0000	16.0000	15.8485	15.6332	-0.1515	-0.3668	0.3968	0	0	0	8	0	0	0
	222.8290	16.0000	16.0000	15.4364	15.7906	-0.5636	-0.2094	0.6013	11	0	0	0	0	0	0
	231.1100	16.0000	16.0000	15.7096	15.5880	-0.2904	-0.4120	0.5040	7	0	0	8	0	0	0
	239.5940	16.0000	16.0000	15.5066	15.3942	-0.4934	-0.6058	0.7813	12	0	0	12	0	0	0
	248.6720	16.0000	16.0000	15.6845	15.7675	-0.3155	-0.2325	0.3919	7	0	0	0	0	0	0
	257.0790	16.0000	16.0000	15.6554	15.2234	-0.3446	-0.7766	0.8497	10	0	0	18	0	0	0
	265.2350	16.0000	16.0000	15.9068	16.0474	-0.0932	0.0474	0.1046	0	0	0	0	0	0	0
	273.5000	16.0000	16.0000	15.9224	15.7529	-0.0776	-0.2471	0.2590	0	0	0	6	0	0	0
	282.1250	16.0000	16.0000	15.7618	15.7777	-0.2382	-0.2223	0.3258	0	0	0	0	0	0	0
	290.7190	16.0000	16.0000	15.5984	15.4107	-0.4016	-0.5893	0.7131	10	0	0	12	0	0	0
	299.2040	16.0000	16.0000	15.6542	15.4311	-0.3458	-0.5689	0.6657	9	0	0	12	0	0	0
	307.3600	16.0000	16.0000	15.7995	15.7955	-0.2005	-0.2045	0.2864	0	0	0	0	0	0	0
	315.7500	16.0000	16.0000	16.0927	15.5820	0.0927	-0.4180	0.4281	0	0	0	12	0	0	0
	323.8750	16.0000	16.0000	15.8783	15.7441	-0.1217	-0.2559	0.2833	0	0	0	0	0	0	0
	332.2040	16.0000	16.0000	15.9308	15.2928	-0.0692	-0.7072	0.7106	0	0	0	19	0	0	0
	340.4380	16.0000	16.0000	15.1649	15.6648	-0.8351	-0.3352	0.8999	16	0	0	0	0	0	0
	348.7820	16.0000	16.0000	15.5443	15.3777	-0.4557	-0.6223	0.7713	11	0	0	12	0	0	0
	357.3440	16.0000	16.0000	15.9663	15.7531	-0.0337	-0.2469	0.2492	0	0	0	6	0	0	0
	365.7660	16.0000	16.0000	16.0598	15.7934	0.0598	-0.2066	0.2151	0	0	0	6	0	0	0
	374.3600	16.0000	16.0000	16.0539	15.7613	0.0539	-0.2387	0.2447	0	0	0	7	0	0	0
	382.8440	16.0000	16.0000	15.9805	15.7670	-0.0195	-0.2330	0.2339	0	0	0	6	0	0	0
	391.0000	16.0000	16.0000	16.0963	15.7652	0.0963	-0.2348	0.2538	0	0	0	7	0	0	0
	399.2350	16.0000	16.0000	15.6242	15.4894	-0.3758	-0.5106	0.6340	9	0	0	10	0	0	0
	407.3910	16.0000	16.0000	16.0559	15.8334	0.0559	-0.1666	0.1757	0	0	0	0	0	0	0
	416.0790	16.0000	16.0000	16.0331	15.3915	0.0331	-0.6085	0.6094	0	0	0	16	0	0	0
	424.7970	16.0000	16.0000	15.4101	15.7453	-0.5899	-0.2547	0.6425	12	0	0	0	0	0	0
	433.4690	16.0000	16.0000	15.2333	15.2559	-0.7667	-0.7441	1.0684	17	0	0	13	0	0	0
	441.6410	16.0000	16.0000	15.3739	15.6361	-0.6261	-0.3639	0.7242	12	0	0	0	0	0	0
	450.0320	16.0000	16.0000	16.0008	15.4869	0.0008	-0.5131	0.5133	0	0	0	14	0	0	0
	458.6720	16.0000	16.0000	15.7212	15.5929	-0.2788	-0.4071	0.4934	7	0	0	8	0	0	0
	467.2040	16.0000	16.0000	16.0601	15.5460	0.0601	-0.4540	0.4580	0	0	0	12	0	0	0
	475.7970	16.0000	16.0000	15.7565	15.8208	-0.2435	-0.1792	0.3023	0	0	0	0	0	0	0
	484.5470	16.0000	16.0000	15.5573	15.4361	-0.4427	-0.5639	0.7169	11	0	0	12	0	0	0
	493.0790	16.0000	16.0000	15.7779	15.6648	-0.2221	-0.3352	0.4021	0	0	0	7	0	0	0

 * m13_lum.00001149.M_13.FIT *

CCDSof Tracking Report
 Start Date Time = 2006-02-28T09:47:16.078
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 7.55
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	16.3201	13.5995	0.3201	-2.4005	2.4217	8	0	0	50	0
	27.0310	16.0000	16.0000	15.0650	15.1210	-0.9350	-0.8790	1.2834	21	0	0	16	0
	35.9220	16.0000	16.0000	15.3556	15.5286	-0.6444	-0.4714	0.7984	14	0	0	7	0
	44.0310	16.0000	16.0000	16.2260	15.8413	0.2260	-0.1587	0.2761	0	0	0	6	0
	53.9220	16.0000	16.0000	16.2152	15.8961	0.2152	-0.1039	0.2390	0	0	0	0	0
	62.2180	16.0000	16.0000	16.2814	15.4991	0.2814	-0.5009	0.5746	0	0	0	16	0
	70.5000	16.0000	16.0000	16.0626	16.0011	0.0626	0.0011	0.0626	0	0	0	0	0
	78.8750	16.0000	16.0000	16.3960	15.7907	0.3960	-0.2093	0.4479	0	0	0	8	0
	87.9680	16.0000	16.0000	17.0875	16.1016	1.0875	0.1016	1.0922	0	19	0	6	0
	96.3430	16.0000	16.0000	16.3924	15.7881	0.3924	-0.2119	0.4460	0	0	0	9	0
	105.2180	16.0000	16.0000	16.5402	15.9143	0.5402	-0.0857	0.5469	0	8	0	7	0
	113.4840	16.0000	16.0000	16.2102	15.9382	0.2102	-0.0618	0.2191	0	0	0	0	0
	121.8900	16.0000	16.0000	16.6510	15.8550	0.6510	-0.1450	0.6669	0	10	0	9	0
	130.2340	16.0000	16.0000	16.5462	15.9399	0.5462	-0.0601	0.5495	0	8	0	6	0
	138.4530	16.0000	16.0000	16.6582	16.0495	0.6582	0.0495	0.6601	0	11	0	0	0
	146.8900	16.0000	16.0000	16.7386	15.8068	0.7386	-0.1932	0.7634	0	11	0	12	0
	155.2340	16.0000	16.0000	16.6466	15.9536	0.6466	-0.0464	0.6483	0	10	0	7	0

	163.7500	16.0000	16.0000	16.4030	15.9610	0.4030	-0.0390	0.4049	0	6	0	0	0	0
	172.7810	16.0000	16.0000	16.4676	15.7788	0.4676	-0.2212	0.5173	0	6	0	10	0	0
	181.6090	16.0000	16.0000	16.5701	15.8996	0.5701	-0.1004	0.5788	0	8	0	8	0	0
	190.0620	16.0000	16.0000	16.6455	16.2431	0.6455	0.2431	0.6898	0	12	0	0	0	0
	198.3590	16.0000	16.0000	16.1590	15.7758	0.1590	-0.2242	0.2748	0	0	0	7	0	0
	206.8120	16.0000	16.0000	16.0675	15.6738	0.0675	-0.3262	0.3331	0	0	0	9	0	0
	215.4840	16.0000	16.0000	15.8289	15.6784	-0.1711	-0.3216	0.3643	0	0	0	7	0	0
	223.9060	16.0000	16.0000	15.4613	15.6205	-0.5387	-0.3795	0.6589	12	0	0	0	0	0
	232.3590	16.0000	16.0000	15.8350	15.3035	-0.1650	-0.6965	0.7158	7	0	0	17	0	0
	240.4220	16.0000	16.0000	15.8583	15.8967	-0.1417	-0.1033	0.1754	0	0	0	0	0	0
	248.7650	16.0000	16.0000	15.7695	15.6597	-0.2305	-0.3403	0.4110	6	0	0	7	0	0
	256.9530	16.0000	16.0000	15.7150	15.5923	-0.2850	-0.4077	0.4974	7	0	0	8	0	0
	265.2650	16.0000	16.0000	15.6269	15.6398	-0.3731	-0.3602	0.5187	8	0	0	6	0	0
	273.6250	16.0000	16.0000	15.4898	15.5811	-0.5102	-0.4189	0.6601	11	0	0	7	0	0
	282.3430	16.0000	16.0000	15.6017	15.4654	-0.3983	-0.5346	0.6667	10	0	0	11	0	0
	290.6090	16.0000	16.0000	15.6413	15.8349	-0.3587	-0.1651	0.3949	7	0	0	0	0	0
	299.0150	16.0000	16.0000	15.8877	15.4630	-0.1123	-0.5370	0.5486	0	0	0	13	0	0
	307.6090	16.0000	16.0000	15.4764	15.6763	-0.5236	-0.3237	0.6156	11	0	0	0	0	0
	316.0000	16.0000	16.0000	15.5412	15.4574	-0.4588	-0.5426	0.7105	11	0	0	11	0	0
	324.9530	16.0000	16.0000	15.4317	15.6668	-0.5683	-0.3332	0.6588	12	0	0	0	0	0
	333.2810	16.0000	16.0000	15.7706	15.6840	-0.2294	-0.3160	0.3905	0	0	0	6	0	0
	342.0930	16.0000	16.0000	15.8529	15.5587	-0.1471	-0.4413	0.4651	0	0	0	11	0	0
	350.4680	16.0000	16.0000	15.5489	15.8809	-0.4511	-0.1191	0.4666	8	0	0	0	0	0
	358.9370	16.0000	16.0000	15.8053	15.6130	-0.1947	-0.3870	0.4332	0	0	0	8	0	0
	367.2030	16.0000	16.0000	15.4544	15.2779	-0.5456	-0.7221	0.9051	13	0	0	15	0	0
	375.5000	16.0000	16.0000	15.5259	15.8834	-0.4741	-0.1166	0.4882	8	0	0	0	0	0
	383.8750	16.0000	16.0000	16.1502	15.7812	0.1502	-0.2188	0.2654	0	0	0	7	0	0
	393.2810	16.0000	16.0000	16.1131	15.8506	0.1131	-0.1494	0.1874	0	0	0	0	0	0
	404.1400	16.0000	16.0000	15.9079	15.3501	-0.0921	-0.6499	0.6564	0	0	0	16	0	0
	414.5930	16.0000	16.0000	15.3139	15.3640	-0.6861	-0.6360	0.9355	16	0	0	11	0	0
	424.1870	16.0000	16.0000	15.8246	15.8308	-0.1754	-0.1692	0.2437	0	0	0	0	0	0
	433.0930	16.0000	16.0000	16.2977	15.5993	0.2977	-0.4007	0.4992	0	0	0	13	0	0
	441.6560	16.0000	16.0000	16.5997	16.1031	0.5997	0.1031	0.6085	0	11	0	0	0	0
	449.8900	16.0000	16.0000	16.3363	15.7034	0.3363	-0.2966	0.4484	0	0	0	11	0	0
	458.3900	16.0000	16.0000	16.2506	15.8489	0.2506	-0.1511	0.2926	0	0	0	6	0	0
	467.0000	16.0000	16.0000	16.2645	15.8932	0.2645	-0.1068	0.2852	0	0	0	0	0	0
	475.3120	16.0000	16.0000	16.6564	15.7099	0.6564	-0.2901	0.7177	0	9	0	13	0	0
	483.6090	16.0000	16.0000	16.6784	15.9078	0.6784	-0.0922	0.6846	0	11	0	8	0	0
	491.7970	16.0000	16.0000	16.2714	16.0323	0.2714	0.0323	0.2734	0	0	0	0	0	0

 * m13_lum.00001150_M_13.FIT *

CCDSOFT Tracking Report
 Start Date Time = 2006-02-28T09:55:40.625
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 7.55
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	17.7934	15.2693	1.7934	-0.7307	1.9365	0	26	0	36	0
	26.6720	16.0000	16.0000	16.3200	15.8927	0.3200	-0.1073	0.3375	0	0	0	0	0
	34.8750	16.0000	16.0000	16.2608	15.6394	0.2608	-0.3606	0.4450	0	0	0	12	0
	44.7190	16.0000	16.0000	16.0609	15.7799	0.0609	-0.2201	0.2284	0	0	0	6	0
	53.1560	16.0000	16.0000	15.9668	15.7668	-0.0332	-0.2332	0.2356	0	0	0	6	0
	61.5940	16.0000	16.0000	16.0437	15.7366	0.0437	-0.2634	0.2670	0	0	0	8	0
	69.8440	16.0000	16.0000	16.0945	15.8641	0.0945	-0.1359	0.1655	0	0	0	0	0
	78.1560	16.0000	16.0000	16.2706	15.4996	0.2706	-0.5004	0.5689	0	0	0	16	0
	86.2810	16.0000	16.0000	15.9173	15.7792	-0.0827	-0.2208	0.2358	0	0	0	0	0
	95.2340	16.0000	16.0000	15.6619	15.5134	-0.3381	-0.4866	0.5925	8	0	0	10	0
	103.6560	16.0000	16.0000	16.0976	15.7332	0.0976	-0.2668	0.2841	0	0	0	8	0
	111.8120	16.0000	16.0000	16.3559	15.9383	0.3559	-0.0617	0.3612	0	0	0	0	0
	120.0470	16.0000	16.0000	16.8422	15.9057	0.8422	-0.0943	0.8475	0	13	0	9	0
	128.4530	16.0000	16.0000	16.5471	15.7880	0.5471	-0.2120	0.5868	0	8	0	10	0
	136.7190	16.0000	16.0000	16.1374	15.7431	0.1374	-0.2569	0.2913	0	0	0	8	0

	144.8750	16.0000	16.0000	16.1046	15.8978	0.1046	-0.1022	0.1462	0	0	0	0	0	0	0
	153.2970	16.0000	16.0000	16.2099	15.6796	0.2099	-0.3204	0.3830	0	0	0	10	0	0	0
	161.8120	16.0000	16.0000	16.6703	15.9280	0.6703	-0.0720	0.6742	0	11	0	8	0	0	0
	170.3750	16.0000	16.0000	16.3645	15.9676	0.3645	-0.0324	0.3659	0	6	0	0	0	0	0
	178.9370	16.0000	16.0000	16.2466	15.6171	0.2466	-0.3829	0.4554	0	0	0	12	0	0	0
	187.2970	16.0000	16.0000	16.1428	15.7089	0.1428	-0.2911	0.3242	0	0	0	9	0	0	0
	195.5310	16.0000	16.0000	15.9811	15.7529	-0.0189	-0.2471	0.2478	0	0	0	6	0	0	0
	203.7970	16.0000	16.0000	16.0359	15.7540	0.0359	-0.2460	0.2486	0	0	0	7	0	0	0
	212.1560	16.0000	16.0000	16.1984	15.9523	0.1984	-0.0477	0.2041	0	0	0	0	0	0	0
	220.5470	16.0000	16.0000	16.3867	15.7241	0.3867	-0.2759	0.4750	0	0	0	11	0	0	0
	228.8120	16.0000	16.0000	16.1547	15.7617	0.1547	-0.2383	0.2841	0	0	0	8	0	0	0
	237.2190	16.0000	16.0000	15.9533	15.8174	-0.0467	-0.1826	0.1885	0	0	0	0	0	0	0
	245.8900	16.0000	16.0000	15.9905	15.5954	-0.0095	-0.4046	0.4047	0	0	0	11	0	0	0
	254.3590	16.0000	16.0000	15.9202	15.7387	-0.0798	-0.2613	0.2732	0	0	0	6	0	0	0
	262.7340	16.0000	16.0000	16.0441	15.6205	0.0441	-0.3795	0.3820	0	0	0	11	0	0	0
	271.0150	16.0000	16.0000	15.6123	15.7312	-0.3877	-0.2688	0.4718	8	0	0	0	0	0	0
	279.3120	16.0000	16.0000	15.7482	15.3638	-0.2518	-0.6362	0.6843	8	0	0	15	0	0	0
	287.7030	16.0000	16.0000	15.3314	15.7368	-0.6686	-0.2632	0.7185	13	0	0	0	0	0	0
	296.4530	16.0000	16.0000	15.5185	15.4246	-0.5185	-0.5754	0.7503	12	0	0	12	0	0	0
	304.7650	16.0000	16.0000	15.4904	15.7205	-0.5096	-0.2795	0.5812	10	0	0	0	0	0	0
	312.9690	16.0000	16.0000	15.4529	15.3830	-0.5471	-0.6170	0.8246	12	0	0	12	0	0	0
	321.4840	16.0000	16.0000	15.6049	15.5921	-0.3951	-0.4079	0.5679	9	0	0	8	0	0	0
	330.1720	16.0000	16.0000	15.3913	15.5435	-0.6087	-0.4565	0.7609	13	0	0	7	0	0	0
	338.9370	16.0000	16.0000	15.4354	15.7170	-0.5646	-0.2830	0.6315	11	0	0	0	0	0	0
	347.2500	16.0000	16.0000	15.3123	15.2666	-0.6877	-0.7334	1.0054	16	0	0	14	0	0	0
	355.5000	16.0000	16.0000	15.6858	15.7540	-0.3142	-0.2460	0.3990	7	0	0	0	0	0	0
	363.7970	16.0000	16.0000	15.6858	15.3922	-0.3142	-0.6078	0.6842	8	0	0	13	0	0	0
	372.3590	16.0000	16.0000	15.3645	15.6471	-0.6355	-0.3529	0.7269	13	0	0	0	0	0	0
	380.6250	16.0000	16.0000	15.3558	15.3201	-0.6442	-0.6799	0.9366	15	0	0	12	0	0	0
	388.8120	16.0000	16.0000	15.2519	15.7105	-0.7481	-0.2895	0.8022	15	0	0	0	0	0	0
	397.3440	16.0000	16.0000	15.7195	15.6112	-0.2805	-0.3888	0.4794	7	0	0	8	0	0	0
	406.1400	16.0000	16.0000	16.0902	15.5950	0.0902	-0.4050	0.4149	0	0	0	12	0	0	0
	414.4690	16.0000	16.0000	16.1745	15.8336	0.1745	-0.1664	0.2411	0	0	0	6	0	0	0
	422.7970	16.0000	16.0000	16.0971	15.7055	0.0971	-0.2945	0.3101	0	0	0	8	0	0	0
	431.0780	16.0000	16.0000	15.8239	15.7817	-0.1761	-0.2183	0.2805	0	0	0	0	0	0	0
	439.3440	16.0000	16.0000	15.8125	15.4403	-0.1875	-0.5597	0.5902	6	0	0	13	0	0	0
	447.5940	16.0000	16.0000	16.2099	15.7942	0.2099	-0.2058	0.2940	0	0	0	7	0	0	0
	455.9840	16.0000	16.0000	16.3731	15.9813	0.3731	-0.0187	0.3736	0	6	0	0	0	0	0
	464.0780	16.0000	16.0000	16.3881	15.7696	0.3881	-0.2304	0.4514	0	0	0	9	0	0	0
	472.4690	16.0000	16.0000	16.5357	15.8334	0.5357	-0.1666	0.5611	0	8	0	0	9	0	0
	481.0000	16.0000	16.0000	15.9168	15.7288	-0.0832	-0.2712	0.2836	0	0	0	6	0	0	0

* ml3_lum.00001151.M_13.FIT *

CCDSoft Tracking Report
Start Date Time = 2006-02-28T10:08:46.531
Camera = Imager's built-in autoguider
X Axis = Enabled
Y Axis = Enabled
ExposureTime = 5.37
Aggressiveness Factor = 8
Calibration Time X = 10.00
Calibration Time Y = 10.00
Calibration declination = -0.66
Declination now = 25.99
Minimum Move = 0.06
Maximum Move = 0.50
Backlash X = 0.00
Backlash Y = 0.00
Delay After Move = 0.00
Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
	0.0000	16.0000	16.0000	16.2369	15.5325	0.2369	-0.4675	0.5241	0	0	15	0	0	0	0
	21.6720	16.0000	16.0000	15.4469	15.2907	-0.5531	-0.7093	0.8995	13	0	0	14	0	0	0
	28.4530	16.0000	16.0000	15.7201	15.7465	-0.2799	-0.2535	0.3776	6	0	0	0	0	0	0
	37.4850	16.0000	16.0000	15.7322	15.3948	-0.2678	-0.6052	0.6618	8	0	0	14	0	0	0
	44.2500	16.0000	16.0000	16.2057	15.7463	0.2057	-0.2537	0.3267	0	0	0	8	0	0	0
	50.5000	16.0000	16.0000	16.0920	15.7100	0.0920	-0.2900	0.3042	0	0	0	8	0	0	0
	56.7660	16.0000	16.0000	15.8976	15.8868	-0.1024	-0.1132	0.1526	0	0	0	0	0	0	0
	62.7970	16.0000	16.0000	15.6164	15.6204	-0.3836	-0.3796	0.5397	8	0	0	7	0	0	0
	69.4380	16.0000	16.0000	15.2395	15.2370	-0.7605	-0.7630	1.0773	17	0	0	14	0	0	0
	76.0310	16.0000	16.0000	15.3645	15.8602	-0.6355	-0.1398	0.6507	12	0	0	0	0	0	0
	82.6720	16.0000	16.0000	15.8731	15.7433	-0.1269	-0.2567	0.2864	0	0	0	0	0	0	0
	88.8750	16.0000	16.0000	15.7334	15.3250	-0.2666	-0.6750	0.7258	8	0	0	16	0	0	0
	94.7190	16.0000	16.0000	16.0737	15.7854	0.0737	-0.2146	0.2269	0	0	0	6	0	0	0

	100.5470	16.0000	16.0000	16.2442	15.8139	0.2442	-0.1861	0.3070	0	0	0	7	0	0
	106.4380	16.0000	16.0000	16.0070	15.8710	0.0070	-0.1290	0.1292	0	0	0	0	0	0
	112.6250	16.0000	16.0000	16.1460	15.7357	0.1460	-0.2643	0.3020	0	0	0	8	0	0
	118.9530	16.0000	16.0000	15.7564	15.5594	-0.2436	-0.4406	0.5035	7	0	0	10	0	0
	125.7500	16.0000	16.0000	15.6955	15.6927	-0.3045	-0.3073	0.4326	7	0	0	0	0	0
	132.6250	16.0000	16.0000	16.0683	15.5607	0.0683	-0.4393	0.4446	0	0	0	12	0	0
	139.2030	16.0000	16.0000	16.2282	15.8010	0.2282	-0.1990	0.3028	0	0	0	7	0	0
	145.8280	16.0000	16.0000	16.1535	15.9737	0.1535	-0.0263	0.1558	0	0	0	0	0	0
	152.7500	16.0000	16.0000	16.1827	15.7143	0.1827	-0.2857	0.3391	0	0	0	9	0	0
	159.5160	16.0000	16.0000	15.8050	15.6298	-0.1950	-0.3702	0.4185	0	0	0	8	0	0
	165.6720	16.0000	16.0000	15.3521	15.7022	-0.6479	-0.2978	0.7131	12	0	0	0	0	0
	172.2970	16.0000	16.0000	15.4921	15.4345	-0.5079	-0.5655	0.7600	12	0	0	11	0	0
	179.0780	16.0000	16.0000	15.9286	15.8207	-0.0714	-0.1793	0.1930	0	0	0	0	0	0
	185.6100	16.0000	16.0000	16.2391	15.5935	0.2391	-0.4065	0.4716	0	0	0	13	0	0
	192.1410	16.0000	16.0000	16.0325	15.8226	0.0325	-0.1774	0.1930	0	0	0	0	0	0
	198.9060	16.0000	16.0000	16.1890	15.7137	0.1890	-0.2863	0.3431	0	0	0	9	0	0
	205.4530	16.0000	16.0000	16.1272	15.8086	0.1272	-0.1914	0.2298	0	0	0	6	0	0
	212.0630	16.0000	16.0000	16.0928	15.6146	0.0928	-0.3854	0.3964	0	0	0	11	0	0
	218.3130	16.0000	16.0000	16.2260	16.0422	0.2260	0.0422	0.2299	0	0	0	0	0	0
	224.7810	16.0000	16.0000	16.4303	15.7639	0.4303	-0.2361	0.4908	0	0	0	10	0	0
	231.1100	16.0000	16.0000	16.7481	15.9854	0.7481	-0.0146	0.7482	0	12	0	7	0	0
	237.2030	16.0000	16.0000	16.6041	15.8835	0.6041	-0.1165	0.6152	0	9	0	8	0	0
	243.2970	16.0000	16.0000	16.1954	15.9228	0.1954	-0.0772	0.2101	0	0	0	0	0	0
	249.4850	16.0000	16.0000	16.1871	15.7960	0.1871	-0.2040	0.2769	0	0	0	7	0	0
	255.7970	16.0000	16.0000	16.2784	15.7437	0.2784	-0.2563	0.2784	0	0	0	9	0	0
	262.0310	16.0000	16.0000	15.9498	15.9335	-0.0502	-0.0665	0.0833	0	0	0	0	0	0
	268.3750	16.0000	16.0000	16.1947	15.6497	0.1947	-0.3503	0.4007	0	0	0	11	0	0
	274.5630	16.0000	16.0000	16.7067	16.1497	0.7067	0.1497	0.7224	0	12	0	0	0	0
	280.8750	16.0000	16.0000	16.5073	15.9639	0.5073	-0.0361	0.5086	0	8	0	0	0	0
	287.5630	16.0000	16.0000	16.5410	15.5039	0.5410	-0.4961	0.7341	0	6	0	18	0	0
	294.8600	16.0000	16.0000	16.4261	16.1997	0.4261	0.1997	0.4705	0	8	0	0	0	0
	301.2970	16.0000	16.0000	16.0570	15.6424	0.0570	-0.3576	0.3621	0	0	0	10	0	0
	308.1410	16.0000	16.0000	15.9710	15.8330	-0.0290	-0.1670	0.1695	0	0	0	0	0	0
	314.9220	16.0000	16.0000	16.1706	15.7060	0.1706	-0.2912	0.3399	0	0	0	9	0	0
	321.3440	16.0000	16.0000	16.2914	15.7088	0.2914	-0.2912	0.4120	0	0	0	0	0	0
	327.5780	16.0000	16.0000	16.3075	15.8764	0.3075	-0.1236	0.3314	0	0	0	6	0	0
	333.5000	16.0000	16.0000	16.4747	16.1150	0.4747	0.1150	0.4885	0	8	0	0	0	0
	340.2970	16.0000	16.0000	16.0030	15.7421	0.0030	-0.2579	0.2579	0	0	0	7	0	0
	346.6560	16.0000	16.0000	15.9765	15.7722	-0.0235	-0.2278	0.2291	0	0	0	6	0	0
	352.9690	16.0000	16.0000	15.6828	15.7640	-0.3172	-0.2360	0.3954	7	0	0	0	0	0
	359.7350	16.0000	16.0000	15.7047	15.3520	-0.2953	-0.6480	0.7121	8	0	0	15	0	0
	366.7030	16.0000	16.0000	15.4335	15.8052	-0.5665	-0.1948	0.5991	11	0	0	0	0	0
	373.3600	16.0000	16.0000	15.7672	15.5968	-0.2328	-0.4032	0.4656	6	0	0	8	0	0
	379.6250	16.0000	16.0000	16.1284	15.6434	0.1284	-0.3566	0.3790	0	0	0	11	0	0
	386.3130	16.0000	16.0000	15.8366	16.0466	-0.1634	0.0466	0.1699	0	0	0	0	0	0
	393.2030	16.0000	16.0000	15.2965	15.6363	-0.7035	-0.3637	0.7920	14	0	0	0	0	0
	399.8750	16.0000	16.0000	15.8801	15.6638	-0.1199	-0.3362	0.3570	0	0	0	8	0	0
	406.7030	16.0000	16.0000	15.2113	15.4652	-0.7887	-0.5348	0.9529	16	0	0	8	0	0
	413.6880	16.0000	16.0000	15.2860	15.5461	-0.7140	-0.4539	0.8460	15	0	0	6	0	0
	420.5470	16.0000	16.0000	15.3567	15.3384	-0.6433	-0.6616	0.9228	15	0	0	12	0	0
	427.4220	16.0000	16.0000	15.5227	16.0712	-0.4773	0.0712	0.4825	8	0	6	0	0	0
	433.5310	16.0000	16.0000	15.6898	15.7279	-0.3102	-0.2721	0.4126	7	0	0	0	0	0
	440.2660	16.0000	16.0000	15.6236	15.5603	-0.3764	-0.4397	0.5788	8	0	0	8	0	0
	446.8750	16.0000	16.0000	15.5928	15.3144	-0.4072	-0.6856	0.7974	11	0	0	15	0	0
	453.7970	16.0000	16.0000	15.2263	15.3197	-0.7737	-0.6803	1.0302	17	0	0	12	0	0
	460.5310	16.0000	16.0000	15.2201	15.9394	-0.7799	-0.0606	0.7822	14	0	0	0	0	0
	467.2970	16.0000	16.0000	15.7009	15.8544	-0.2991	-0.1456	0.3326	6	0	0	0	0	0
	473.8750	16.0000	16.0000	16.0408	15.7296	0.0408	-0.2704	0.2734	0	0	0	8	0	0
	480.6560	16.0000	16.0000	15.7148	15.7387	-0.2852	-0.2613	0.3868	6	0	0	0	0	0

* ml3_lum.00001152.M_13.FIT *

CCDSof Tracking Report
Start Date Time = 2006-02-28T10:16:56.125
Camera = Imager's built-in autoguider
X Axis = Enabled
Y Axis = Enabled
ExposureTime = 5.37
Aggressiveness Factor = 8
Calibration Time X = 10.00
Calibration Time Y = 10.00
Calibration declination = -0.66
Declination now = 25.99
Minimum Move = 0.06
Maximum Move = 0.50
Backlash X = 0.00
Backlash Y = 0.00
Delay After Move = 0.00
Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000

XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
0.0000	16.0000	16.0000	13.9129	15.0533	-2.0871	-0.9467	2.2918	42	0	0	0	8	0	0	0
20.8130	16.0000	16.0000	14.9672	15.4453	-1.0328	-0.5547	1.1723	21	0	0	0	6	0	0	0
27.4060	16.0000	16.0000	15.5027	15.4123	-0.4973	-0.5877	0.7699	12	0	0	0	12	0	0	0
33.5940	16.0000	16.0000	16.2142	16.0317	0.2142	0.0317	0.2166	0	0	0	0	0	0	0	0
42.7810	16.0000	16.0000	16.1815	15.8095	0.1815	-0.1905	0.2631	0	0	0	0	7	0	0	0
48.9060	16.0000	16.0000	16.1637	15.8473	0.1637	-0.1527	0.2239	0	0	0	0	0	0	0	0
55.3600	16.0000	16.0000	15.6333	15.1880	-0.3667	-0.8120	0.8910	11	0	0	0	19	0	0	0
61.6880	16.0000	16.0000	16.3125	16.2604	0.3125	0.2604	0.4068	0	7	0	0	0	0	0	0
67.9690	16.0000	16.0000	15.8120	15.9547	-0.1880	-0.0453	0.1934	0	0	0	0	0	0	0	0
74.1250	16.0000	16.0000	15.5808	15.4965	-0.4192	-0.5035	0.6552	10	0	0	0	10	0	0	0
80.3600	16.0000	16.0000	16.3921	16.0302	0.3921	0.0302	0.3933	0	7	0	0	0	0	0	0
86.5630	16.0000	16.0000	16.2295	15.7585	0.2295	-0.2415	0.3331	0	0	0	0	8	0	0	0
92.7660	16.0000	16.0000	16.4371	15.8352	0.4371	-0.1648	0.4671	0	6	0	0	8	0	0	0
98.9060	16.0000	16.0000	16.2019	15.9771	0.2019	-0.0229	0.2032	0	0	0	0	0	0	0	0
105.3130	16.0000	16.0000	16.1919	15.7267	0.1919	-0.2733	0.3340	0	0	0	0	8	0	0	0
111.5630	16.0000	16.0000	16.1491	15.8198	0.1491	-0.1802	0.2339	0	0	0	0	6	0	0	0
117.6720	16.0000	16.0000	16.2570	15.9496	0.2570	-0.0504	0.2619	0	0	0	0	0	0	0	0
123.7810	16.0000	16.0000	16.3460	15.9081	0.3460	-0.0919	0.3580	0	0	0	0	0	0	0	0
130.0310	16.0000	16.0000	16.5380	15.6909	0.5380	-0.3091	0.6205	0	7	0	0	12	0	0	0
136.4060	16.0000	16.0000	16.7063	15.8625	0.7063	-0.1375	0.7196	0	11	0	0	9	0	0	0
142.7350	16.0000	16.0000	16.4946	15.8673	0.4946	-0.1327	0.5121	0	8	0	0	8	0	0	0
149.0630	16.0000	16.0000	15.9249	15.9306	-0.0751	-0.0694	0.1023	0	0	0	0	0	0	0	0
155.4530	16.0000	16.0000	15.8399	15.6178	-0.1601	-0.3822	0.4144	0	0	0	0	8	0	0	0
161.7190	16.0000	16.0000	15.5951	15.7558	-0.4049	-0.2442	0.4729	8	0	0	0	0	0	0	0
168.1100	16.0000	16.0000	16.2402	15.6328	0.2402	-0.3672	0.4388	0	0	0	0	12	0	0	0
174.1880	16.0000	16.0000	16.1934	15.8734	0.1934	-0.1266	0.2312	0	0	0	0	0	0	0	0
180.2970	16.0000	16.0000	16.2912	15.9782	0.2912	-0.0218	0.2920	0	0	0	0	0	0	0	0
186.7030	16.0000	16.0000	16.3043	15.7042	0.3043	-0.2958	0.4244	0	0	0	0	10	0	0	0
192.9530	16.0000	16.0000	16.2670	15.7306	0.2670	-0.2694	0.3793	0	0	0	0	9	0	0	0
199.1560	16.0000	16.0000	16.1673	15.7739	0.1673	-0.2261	0.2813	0	0	0	0	8	0	0	0
205.3600	16.0000	16.0000	16.1455	15.8453	0.1455	-0.1547	0.2123	0	0	0	0	0	0	0	0
211.5160	16.0000	16.0000	15.8539	15.3711	-0.1461	-0.6289	0.6457	6	0	0	0	16	0	0	0
217.5940	16.0000	16.0000	16.1087	16.1405	0.1087	0.1405	0.1776	0	0	0	0	0	0	0	0
223.6100	16.0000	16.0000	16.1945	15.7658	0.1945	-0.2342	0.3044	0	0	0	0	8	0	0	0
229.8600	16.0000	16.0000	16.0390	15.8994	0.0390	-0.1006	0.1079	0	0	0	0	0	0	0	0
236.1560	16.0000	16.0000	15.8971	15.9105	-0.1029	-0.0895	0.1364	0	0	0	0	0	0	0	0
242.5940	16.0000	16.0000	16.0559	15.5985	0.0559	-0.4015	0.4053	0	0	0	0	11	0	0	0
248.8910	16.0000	16.0000	15.3622	16.1767	-0.6378	0.1767	0.6619	10	0	10	0	0	0	0	0
255.0780	16.0000	16.0000	16.1205	15.9345	0.1205	-0.0655	0.1372	0	0	0	0	0	0	0	0
261.2810	16.0000	16.0000	16.2327	15.7829	0.2327	-0.2171	0.3182	0	0	0	0	8	0	0	0
267.6880	16.0000	16.0000	16.2180	15.7689	0.2180	-0.2311	0.3177	0	0	0	0	8	0	0	0
273.9690	16.0000	16.0000	16.5253	15.7345	0.5253	-0.2655	0.5886	0	7	0	0	12	0	0	0
280.2500	16.0000	16.0000	16.1407	16.0017	0.1407	0.0017	0.1407	0	0	0	0	0	0	0	0
286.2500	16.0000	16.0000	16.1984	16.0142	0.1984	0.0142	0.1989	0	0	0	0	0	0	0	0
292.4380	16.0000	16.0000	16.9119	15.8234	0.9119	-0.1766	0.9288	0	14	0	0	12	0	0	0
298.5780	16.0000	16.0000	16.2260	15.9652	0.2260	-0.0348	0.2286	0	0	0	0	0	0	0	0
304.8130	16.0000	16.0000	15.7156	15.5876	-0.2844	-0.4124	0.5010	7	0	0	0	8	0	0	0
311.1720	16.0000	16.0000	16.3581	15.7885	0.3581	-0.2115	0.4159	0	0	0	0	8	0	0	0
317.5000	16.0000	16.0000	16.7767	15.9378	0.7767	-0.0622	0.7792	0	12	0	0	8	0	0	0
323.7810	16.0000	16.0000	16.2077	16.0880	0.2077	0.0880	0.2256	0	0	0	0	0	0	0	0
330.3280	16.0000	16.0000	19.5209	29.5249	3.5209	13.5249	13.9757	0	50	50	0	0	0	0	0
336.8130	16.0000	16.0000	14.7448	15.2379	-1.2552	-0.7621	1.4685	26	0	0	0	10	0	0	0
343.1410	16.0000	16.0000	15.3141	15.0090	-0.6859	-0.9910	1.2052	17	0	0	0	21	0	0	0
349.5470	16.0000	16.0000	16.3444	15.2822	0.3444	-0.7178	0.7962	0	0	0	0	22	0	0	0
355.8750	16.0000	16.0000	16.3611	15.1943	0.3611	-0.8057	0.8829	0	0	0	0	25	0	0	0
362.5780	16.0000	16.0000	16.0044	16.4207	0.0044	0.4207	0.4207	0	0	11	0	0	0	0	0
369.0160	16.0000	16.0000	16.4683	16.3818	0.4683	0.3818	0.6042	0	10	0	0	0	0	0	0
375.4060	16.0000	16.0000	16.3787	15.9752	0.3787	-0.0248	0.3795	0	6	0	0	0	0	0	0
381.6720	16.0000	16.0000	15.9416	15.7466	-0.0584	-0.2534	0.2601	0	0	0	0	6	0	0	0
388.0470	16.0000	16.0000	16.3115	15.7572	0.3115	-0.2428	0.3949	0	0	0	0	9	0	0	0
394.5160	16.0000	16.0000	15.7756	15.6747	-0.2244	-0.3253	0.3952	0	0	0	0	7	0	0	0
400.5630	16.0000	16.0000	15.6941	15.7282	-0.3059	-0.2718	0.4092	7	0	0	0	0	0	0	0
407.0630	16.0000	16.0000	15.9815	15.1066	-0.0185	-0.8934	0.8936	0	0	0	0	24	0	0	0
413.5310	16.0000	16.0000	15.8316	16.3182	-0.1684	0.3182	0.3600	0	0	0	0	0	0	0	0
419.8130	16.0000	16.0000	15.9845	16.2372	-0.0155	0.2372	0.2377	0	0	9	0	0	0	0	0
426.0000	16.0000	16.0000	16.2736	15.9367	0.2736	-0.0633	0.2808	0	0	0	0	0	0	0	0
432.1560	16.0000	16.0000	15.8866	15.5170	-0.1134	-0.4830	0.4962	0	0	0	0	12	0	0	0
438.5000	16.0000	16.0000	15.3159	15.2476	-0.6841	-0.7524	1.0169	16	0	0	0	14	0	0	0
444.5940	16.0000	16.0000	15.9139	15.7375	-0.0861	-0.2625	0.2763	0	0	0	0	6	0	0	0
450.7660	16.0000	16.0000	15.5988	15.6855	-0.4012	-0.3145	0.5098	8	0	0	0	0	0	0	0
457.1560	16.0000	16.0000	15.6812	15.6265	-0.3188	-0.3735	0.4911	8	0	0	0	7	0	0	0
463.2190	16.0000	16.0000	15.9080	15.6106	-0.0920	-0.3894	0.4001	0	0	0	0	9	0	0	0
469.2810	16.0000	16.0000	15.7485	15.9882	-0.2515	-0.0118	0.2518	0	0	0	0	0	0	0	0

	376.3750	16.0000	16.0000	15.8026	15.6357	-0.1974	-0.3643	0.4144	0	0	0	8	0	0
	382.5620	16.0000	16.0000	15.7646	15.5644	-0.2354	-0.4356	0.4951	6	0	0	9	0	0
	388.7030	16.0000	16.0000	15.9354	15.9971	-0.0646	-0.0029	0.0646	0	0	0	0	0	0
	394.8900	16.0000	16.0000	15.7754	15.6752	-0.2246	-0.3248	0.3949	0	0	0	7	0	0
	401.1870	16.0000	16.0000	15.6810	15.6835	-0.3190	-0.3165	0.4493	7	0	0	0	0	0
	407.5780	16.0000	16.0000	15.9784	15.4951	-0.0216	-0.5049	0.5054	0	0	0	13	0	0
	413.7030	16.0000	16.0000	15.6684	15.9019	-0.3316	-0.0981	0.3458	6	0	0	0	0	0
	419.8590	16.0000	16.0000	15.8478	15.9553	-0.1522	-0.0447	0.1586	0	0	0	0	0	0
	426.3590	16.0000	16.0000	15.6427	15.2878	-0.3573	-0.7122	0.7968	10	0	0	16	0	0
	432.6250	16.0000	16.0000	15.5163	15.9518	-0.4837	-0.0482	0.4861	8	0	0	0	0	0
	438.9690	16.0000	16.0000	16.0515	15.9862	0.0515	-0.0138	0.0533	0	0	0	0	0	0
	445.2810	16.0000	16.0000	16.1262	15.6721	0.1262	-0.3279	0.3513	0	0	0	10	0	0
	451.3120	16.0000	16.0000	16.1390	15.8591	0.1390	-0.1409	0.1979	0	0	0	0	0	0
	457.5780	16.0000	16.0000	16.5023	15.8964	0.5023	-0.1036	0.5129	0	8	0	7	0	0
	463.8900	16.0000	16.0000	16.3067	15.7478	0.3067	-0.2522	0.3971	0	0	0	9	0	0
	470.2190	16.0000	16.0000	15.9764	15.8379	-0.0236	-0.1621	0.1638	0	0	0	0	0	0
	476.3440	16.0000	16.0000	16.1651	15.8687	0.1651	-0.1313	0.2110	0	0	0	0	0	0
	482.7340	16.0000	16.0000	16.0722	15.6218	0.0722	-0.3782	0.3850	0	0	0	11	0	0

 * ml3_lum.00001154.M_13.FIT *

CCDSoft Tracking Report
 Start Date Time = 2006-02-28T10:33:23.859
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 5.37
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	18.1632	15.4883	2.1632	-0.5117	2.2229	0	33	0	32	0
	19.8900	16.0000	16.0000	16.0958	15.7948	0.0958	-0.2052	0.2265	0	0	0	6	0
	26.1400	16.0000	16.0000	15.4633	15.5796	-0.5367	-0.4204	0.6817	12	0	0	7	0
	32.6090	16.0000	16.0000	15.4372	15.6827	-0.5628	-0.3173	0.6460	12	0	0	0	0
	38.9370	16.0000	16.0000	16.0641	15.7497	0.0641	-0.2503	0.2584	0	0	0	7	0
	46.6870	16.0000	16.0000	15.9109	15.7453	-0.0891	-0.2547	0.2699	0	0	0	6	0
	52.9680	16.0000	16.0000	16.0058	15.7346	0.0058	-0.2654	0.2655	0	0	0	7	0
	59.1710	16.0000	16.0000	16.2666	15.7856	0.2666	-0.2144	0.3421	0	0	0	8	0
	65.2500	16.0000	16.0000	15.9877	15.9902	-0.0123	-0.0098	0.0157	0	0	0	0	0
	71.4680	16.0000	16.0000	15.8382	15.7444	-0.1618	-0.2556	0.3025	0	0	0	0	0
	77.5310	16.0000	16.0000	15.7467	15.5109	-0.2533	-0.4891	0.5508	7	0	0	11	0
	83.9210	16.0000	16.0000	15.8172	15.5610	-0.1828	-0.4390	0.4755	0	0	0	10	0
	90.1090	16.0000	16.0000	15.7521	16.0395	-0.2479	0.0395	0.2510	0	0	0	0	0
	96.0620	16.0000	16.0000	15.8829	15.8502	-0.1171	-0.1498	0.1901	0	0	0	0	0
	102.4060	16.0000	16.0000	16.1585	15.7122	0.1585	-0.2878	0.3285	0	0	0	9	0
	108.4680	16.0000	16.0000	16.1281	15.8928	0.1281	-0.1072	0.1670	0	0	0	0	0
	114.7810	16.0000	16.0000	15.8830	15.5146	-0.1170	-0.4854	0.4993	0	0	0	12	0
	121.1870	16.0000	16.0000	15.3783	15.7605	-0.6217	-0.2395	0.6662	12	0	0	0	0
	127.3430	16.0000	16.0000	15.8556	15.5752	-0.1444	-0.4248	0.4486	0	0	0	10	0
	133.4210	16.0000	16.0000	15.5619	16.0201	-0.4381	0.0201	0.4385	8	0	0	0	0
	139.6400	16.0000	16.0000	15.9344	15.9643	-0.0656	-0.0357	0.0747	0	0	0	0	0
	146.1250	16.0000	16.0000	16.1387	15.7475	0.1387	-0.2525	0.2881	0	0	0	8	0
	152.4680	16.0000	16.0000	16.3939	15.8500	0.3939	-0.1500	0.4215	0	0	0	7	0
	158.5930	16.0000	16.0000	16.5473	15.8602	0.5473	-0.1398	0.5648	0	8	0	8	0
	164.8120	16.0000	16.0000	16.2401	16.0584	0.2401	0.0584	0.2471	0	0	0	0	0
	170.8900	16.0000	16.0000	16.1557	15.9150	0.1557	-0.0850	0.1774	0	0	0	0	0
	177.2650	16.0000	16.0000	16.3440	15.6472	0.3440	-0.3528	0.4927	0	0	0	12	0
	183.5620	16.0000	16.0000	16.5771	16.1684	0.5771	0.1684	0.6012	0	11	0	0	0
	190.0310	16.0000	16.0000	16.5958	15.8648	0.5958	-0.1352	0.6110	0	9	0	8	0
	196.2810	16.0000	16.0000	16.0876	15.9285	0.0876	-0.0715	0.1131	0	0	0	0	0
	202.5780	16.0000	16.0000	16.4222	15.8141	0.4222	-0.1859	0.4613	0	6	0	8	0
	208.8280	16.0000	16.0000	15.9031	15.7367	-0.0969	-0.2633	0.2805	0	0	0	6	0
	215.0620	16.0000	16.0000	15.5548	15.6825	-0.4452	-0.3175	0.5469	9	0	0	0	0
	221.3120	16.0000	16.0000	16.4639	15.5507	0.4639	-0.4493	0.6458	0	0	0	16	0
	227.4680	16.0000	16.0000	16.3734	16.1803	0.3734	0.1803	0.4146	0	7	0	0	0
	233.6250	16.0000	16.0000	16.5139	16.0062	0.5139	0.0062	0.5140	0	8	0	0	0

	163.5780	16.0000	16.0000	16.2886	15.6973	0.2886	-0.3027	0.4182	0	0	0	11	0	0
	173.6250	16.0000	16.0000	16.0796	15.7066	0.0796	-0.2934	0.3040	0	0	0	8	0	0
	183.5310	16.0000	16.0000	16.1342	15.6430	0.1342	-0.3570	0.3814	0	0	0	11	0	0
	193.6720	16.0000	16.0000	16.5144	15.8636	0.5144	-0.1364	0.5322	0	8	0	8	0	0
	203.6560	16.0000	16.0000	16.6171	15.7638	0.6171	-0.2362	0.6608	0	8	0	12	0	0
	213.6560	16.0000	16.0000	16.4121	15.7830	0.4121	-0.2170	0.4658	0	0	0	9	0	0
	223.6560	16.0000	16.0000	16.3355	15.7658	0.3355	-0.2342	0.4091	0	0	0	9	0	0
	233.6560	16.0000	16.0000	16.1916	15.9356	0.1916	-0.0644	0.2022	0	0	0	0	0	0
	243.8280	16.0000	16.0000	16.6945	15.4062	0.6945	-0.5938	0.9138	0	8	0	22	0	0
	253.7810	16.0000	16.0000	16.3112	16.1184	0.3112	0.1184	0.3329	0	6	0	0	0	0
	263.6560	16.0000	16.0000	16.1567	15.6714	0.1567	-0.3286	0.3641	0	0	0	10	0	0
	273.8280	16.0000	16.0000	16.0823	15.6139	0.0823	-0.3861	0.3948	0	0	0	11	0	0
	283.8910	16.0000	16.0000	16.6578	15.8403	0.6578	-0.1597	0.6769	0	10	0	10	0	0
	293.8910	16.0000	16.0000	16.5565	15.9206	0.5565	-0.0794	0.5621	0	8	0	7	0	0
	303.9690	16.0000	16.0000	16.0402	15.6034	0.0402	-0.3966	0.3986	0	0	0	11	0	0
	314.0000	16.0000	16.0000	15.7811	15.5722	-0.2189	-0.4278	0.4806	6	0	0	9	0	0
	324.1870	16.0000	16.0000	15.8964	15.6046	-0.1036	-0.3954	0.4087	0	0	0	9	0	0
	334.0780	16.0000	16.0000	15.7922	15.5965	-0.2078	-0.4035	0.4538	0	0	0	9	0	0
	344.1720	16.0000	16.0000	15.9313	15.6788	-0.0687	-0.3212	0.3285	0	0	0	8	0	0
	354.4530	16.0000	16.0000	15.9018	15.5197	-0.0982	-0.4803	0.4902	0	0	0	12	0	0
	364.3750	16.0000	16.0000	15.6221	15.7465	-0.3779	-0.2535	0.4551	8	0	0	0	0	0
	374.5470	16.0000	16.0000	15.7735	15.3115	-0.2265	-0.6885	0.7248	8	0	0	16	0	0
	384.7810	16.0000	16.0000	16.0534	15.7342	0.0534	-0.2658	0.2711	0	0	0	8	0	0
	394.6870	16.0000	16.0000	15.8586	15.5499	-0.1414	-0.4501	0.4718	0	0	0	11	0	0
	404.9060	16.0000	16.0000	15.3770	15.5221	-0.6230	-0.4779	0.7851	13	0	0	8	0	0
	415.1410	16.0000	16.0000	15.4865	15.3376	-0.5135	-0.6624	0.8382	12	0	0	13	0	0
	425.0470	16.0000	16.0000	15.6658	15.7038	-0.3342	-0.2962	0.4466	7	0	0	0	0	0
	435.0620	16.0000	16.0000	16.0526	15.3956	0.0526	-0.6044	0.6067	0	0	0	16	0	0
	445.0310	16.0000	16.0000	15.7346	15.7338	-0.2654	-0.2662	0.3759	6	0	0	0	0	0
	455.1720	16.0000	16.0000	15.8195	15.3184	-0.1805	-0.6816	0.7051	7	0	0	16	0	0
	465.2810	16.0000	16.0000	16.0565	15.7977	0.0565	-0.2023	0.2101	0	0	0	6	0	0
	475.1410	16.0000	16.0000	16.0324	15.8072	0.0324	-0.1928	0.1955	0	0	0	0	0	0
	485.5620	16.0000	16.0000	16.3012	15.2641	0.3012	-0.7359	0.7951	0	0	0	23	0	0
	495.7030	16.0000	16.0000	16.0337	15.8433	0.0337	-0.1567	0.1603	0	0	0	0	0	0
	505.9220	16.0000	16.0000	15.8243	15.3395	-0.1757	-0.6605	0.6834	7	0	0	16	0	0

 * m13_lum.00001156.M_13.FIT *

CCDSoft Tracking Report
 Start Date Time = 2006-02-28T10:56:32.484
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 9.11
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex RA	PECIndex Dec
	0.0000	16.0000	16.0000	13.9639	15.1181	-2.0361	2.2189	40	0	0	6	0	0
	31.2970	16.0000	16.0000	16.1547	15.1684	0.1547	-0.8316	0.8459	0	0	0	24	0
	41.3290	16.0000	16.0000	15.5301	15.7584	-0.4699	-0.2416	0.5284	9	0	0	0	0
	51.4850	16.0000	16.0000	16.1199	15.6046	0.1199	-0.3954	0.4131	0	0	0	12	0
	63.3130	16.0000	16.0000	16.4606	15.4234	0.4606	-0.5766	0.7379	0	0	0	20	0
	73.3910	16.0000	16.0000	15.8196	15.8915	-0.1804	-0.1085	0.2105	0	0	0	0	0
	83.5940	16.0000	16.0000	15.3917	15.2140	-0.6083	-0.7860	0.9939	15	0	0	16	0
	93.6880	16.0000	16.0000	15.6652	15.6729	-0.3348	-0.3271	0.4681	8	0	0	6	0
	103.6250	16.0000	16.0000	15.6115	15.4138	-0.3885	-0.5862	0.7032	10	0	0	12	0
	113.6100	16.0000	16.0000	16.4785	15.9669	0.4785	-0.0331	0.4796	0	8	0	0	0
	123.8290	16.0000	16.0000	16.5540	15.7950	0.5540	-0.2050	0.5907	0	8	0	10	0
	134.0320	16.0000	16.0000	16.1424	15.3463	0.1424	-0.6537	0.6690	0	0	0	19	0
	144.1570	16.0000	16.0000	15.6230	15.8183	-0.3770	-0.1817	0.4185	8	0	0	0	0
	154.4540	16.0000	16.0000	16.3568	15.6542	0.3568	-0.3458	0.4969	0	0	0	12	0
	164.3750	16.0000	16.0000	16.3365	15.7765	0.3365	-0.2235	0.4040	0	0	0	8	0
	174.5320	16.0000	16.0000	15.7968	15.2806	-0.2032	-0.7194	0.7476	8	0	0	18	0
	184.8130	16.0000	16.0000	15.3853	15.8705	-0.6147	-0.1295	0.6282	12	0	0	0	0
	194.8750	16.0000	16.0000	16.0680	15.7163	0.0680	-0.2837	0.2917	0	0	0	8	0
	204.9690	16.0000	16.0000	16.1525	15.6650	0.1525	-0.3350	0.3681	0	0	0	10	0

	214.7820	16.0000	16.0000	16.1819	15.8873	0.1819	-0.1127	0.2140	0	0	0	0	0	0	0
	224.8440	16.0000	16.0000	16.3444	15.3789	0.3444	-0.6211	0.7102	0	0	0	20	0	0	0
	234.8750	16.0000	16.0000	16.4739	15.9546	0.4739	-0.0454	0.4760	0	8	0	0	0	0	0
	244.9540	16.0000	16.0000	16.8884	15.6683	0.8884	-0.3317	0.9483	0	13	0	16	0	0	0
	255.0630	16.0000	16.0000	16.5307	15.7923	0.5307	-0.2077	0.5699	0	8	0	10	0	0	0
	264.9850	16.0000	16.0000	16.5102	15.7399	0.5102	-0.2601	0.5727	0	7	0	11	0	0	0
	275.0320	16.0000	16.0000	16.2278	15.8110	0.2278	-0.1890	0.2960	0	0	0	7	0	0	0
	285.1570	16.0000	16.0000	16.6680	15.7942	0.6680	-0.2058	0.6990	0	10	0	11	0	0	0
	295.2190	16.0000	16.0000	16.6894	15.9513	0.6894	-0.0487	0.6911	0	11	0	7	0	0	0
	305.3750	16.0000	16.0000	16.8663	16.0002	0.8663	0.0002	0.8663	0	15	0	7	0	0	0
	315.5940	16.0000	16.0000	16.6961	15.7296	0.6961	-0.2704	0.7468	0	10	0	13	0	0	0
	325.6100	16.0000	16.0000	16.5401	15.8361	0.5401	-0.1639	0.5644	0	8	0	8	0	0	0
	335.5630	16.0000	16.0000	16.3072	16.0200	0.3072	0.0200	0.3079	0	0	0	0	0	0	0
	345.4380	16.0000	16.0000	16.7654	15.7305	0.7654	-0.2695	0.8115	0	11	0	14	0	0	0
	355.3290	16.0000	16.0000	16.1522	15.8032	0.1522	-0.1968	0.2488	0	0	0	6	0	0	0
	365.2970	16.0000	16.0000	15.8077	15.6566	-0.1923	-0.3434	0.3936	0	0	0	8	0	0	0
	375.3440	16.0000	16.0000	15.4085	15.5428	-0.5915	-0.4572	0.7476	12	0	0	7	0	0	0
	385.1880	16.0000	16.0000	15.8315	15.4439	-0.1685	-0.5561	0.5810	6	0	0	13	0	0	0
	395.1880	16.0000	16.0000	15.8769	15.8036	-0.1231	-0.1964	0.2317	0	0	0	0	0	0	0
	405.2820	16.0000	16.0000	15.6083	15.2717	-0.3917	-0.7283	0.8269	11	0	0	16	0	0	0
	415.2820	16.0000	16.0000	15.5851	15.8592	-0.4149	-0.1408	0.4382	8	0	0	0	0	0	0
	425.5320	16.0000	16.0000	15.6963	15.3144	-0.3037	-0.6856	0.7499	9	0	0	16	0	0	0
	435.9380	16.0000	16.0000	15.5952	15.6614	-0.4048	-0.3386	0.5277	8	0	0	0	0	0	0
	446.0000	16.0000	16.0000	15.8240	15.3931	-0.1760	-0.6069	0.6319	6	0	0	15	0	0	0
	456.0320	16.0000	16.0000	15.5899	15.7620	-0.4101	-0.2380	0.4741	8	0	0	0	0	0	0
	466.2190	16.0000	16.0000	15.2778	15.1350	-0.7222	-0.8650	1.1268	17	0	0	17	0	0	0
	476.2660	16.0000	16.0000	15.2490	15.7249	-0.7510	-0.2751	0.7998	15	0	0	0	0	0	0
	486.6250	16.0000	16.0000	15.8215	15.3249	-0.1785	-0.6751	0.6983	7	0	0	16	0	0	0
	496.2970	16.0000	16.0000	15.9664	15.9305	-0.0336	-0.0695	0.0772	0	0	0	0	0	0	0

 * m13_lum.00001157.M_13.FIT *

CCDSoft Tracking Report
 Start Date Time = 2006-02-28T11:05:04.078
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 9.11
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)
 XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

	Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
	0.0000	16.0000	16.0000	15.6178	12.7025	-0.3822	-3.2975	3.3196	25	0	0	50	0	0	0	
	31.4220	16.0000	16.0000	16.0743	14.5973	0.0743	-1.4027	1.4047	6	0	0	39	0	0	0	
	41.3130	16.0000	16.0000	15.7479	16.0175	-0.2521	0.0175	0.2527	0	0	0	0	0	0	0	
	52.9070	16.0000	16.0000	15.3587	15.5744	-0.6413	-0.4256	0.7696	13	0	0	6	0	0	0	
	62.8600	16.0000	16.0000	15.7752	15.2815	-0.2248	-0.7185	0.7529	8	0	0	17	0	0	0	
	72.7350	16.0000	16.0000	16.3186	15.8313	0.3186	-0.1687	0.3605	0	0	0	7	0	0	0	
	82.6570	16.0000	16.0000	16.6642	15.7427	0.6642	-0.2573	0.7123	9	0	0	12	0	0	0	
	92.6720	16.0000	16.0000	16.4056	15.9274	0.4056	-0.0726	0.4120	0	6	0	0	0	0	0	
	102.8600	16.0000	16.0000	16.2586	15.3731	0.2586	-0.6269	0.6782	0	0	0	19	0	0	0	
	112.7970	16.0000	16.0000	16.5636	15.8879	0.5636	-0.1121	0.5746	0	8	0	8	0	0	0	
	122.7820	16.0000	16.0000	16.6005	15.9100	0.6005	-0.0900	0.6072	0	9	0	8	0	0	0	
	132.6250	16.0000	16.0000	16.3624	15.9245	0.3624	-0.0755	0.3702	0	0	0	0	0	0	0	
	142.5630	16.0000	16.0000	16.3004	15.4141	0.3004	-0.5859	0.6584	0	0	0	18	0	0	0	
	152.6250	16.0000	16.0000	15.8898	15.6942	-0.1102	-0.3058	0.3251	0	0	0	7	0	0	0	
	162.5630	16.0000	16.0000	15.7730	15.7999	-0.2270	-0.2001	0.3026	0	0	0	0	0	0	0	
	172.6100	16.0000	16.0000	15.9588	15.3896	-0.0412	-0.6104	0.6118	0	0	0	16	0	0	0	
	182.6720	16.0000	16.0000	16.0517	15.7044	0.0517	-0.2956	0.3001	0	0	0	8	0	0	0	
	192.5320	16.0000	16.0000	15.7804	15.7553	-0.2196	-0.2447	0.3288	0	0	0	0	0	0	0	
	202.6570	16.0000	16.0000	15.7688	15.3464	-0.2312	-0.6536	0.6933	8	0	0	16	0	0	0	
	212.7040	16.0000	16.0000	16.2972	15.9647	0.2972	-0.0353	0.2993	0	0	0	0	0	0	0	
	222.8910	16.0000	16.0000	16.4636	15.3340	0.4636	-0.6660	0.8115	0	0	0	22	0	0	0	
	232.8910	16.0000	16.0000	16.0931	16.1134	0.0931	0.1134	0.1467	0	0	0	0	0	0	0	
	242.9540	16.0000	16.0000	15.9957	15.6676	-0.0043	-0.3324	0.3325	0	0	0	8	0	0	0	
	253.1720	16.0000	16.0000	16.1744	15.6064	0.1744	-0.3936	0.4305	0	0	0	12	0	0	0	
	263.3440	16.0000	16.0000	16.6681	15.7342	0.6681	-0.2658	0.7190	0	9	0	12	0	0	0	

	273.1720	16.0000	16.0000	16.3611	15.7718	0.3611	-0.2282	0.4271	0	0	0	9	0	0
	283.2040	16.0000	16.0000	16.6088	15.9355	0.6088	-0.0645	0.6122	0	10	0	7	0	0
	293.1720	16.0000	16.0000	16.3173	15.6649	0.3173	-0.3351	0.4615	0	0	0	12	0	0
	303.3440	16.0000	16.0000	16.4316	15.8352	0.4316	-0.1648	0.4620	0	6	0	8	0	0
	313.5630	16.0000	16.0000	16.5055	15.8156	0.5055	-0.1844	0.5381	0	7	0	9	0	0
	323.5000	16.0000	16.0000	16.4256	15.8762	0.4256	-0.1238	0.4432	0	6	0	7	0	0
	333.6250	16.0000	16.0000	16.2667	15.3836	0.2667	-0.6164	0.6716	0	0	0	19	0	0
	343.5630	16.0000	16.0000	16.1109	16.0008	0.1109	0.0008	0.1109	0	0	0	0	0	0
	353.5000	16.0000	16.0000	16.3926	15.8137	0.3926	-0.1863	0.4345	0	0	0	8	0	0
	363.5630	16.0000	16.0000	16.8319	15.8797	0.8319	-0.1203	0.8406	0	13	0	10	0	0
	373.4380	16.0000	16.0000	16.2226	15.7786	0.2226	-0.2214	0.3140	0	0	0	8	0	0
	383.2820	16.0000	16.0000	16.2540	15.8938	0.2540	-0.1062	0.2753	0	0	0	0	0	0
	393.4690	16.0000	16.0000	16.1399	15.5502	0.1399	-0.4498	0.4710	0	0	0	13	0	0
	403.5940	16.0000	16.0000	16.1688	15.7141	0.1688	-0.2859	0.3320	0	0	0	9	0	0
	413.6880	16.0000	16.0000	16.2584	15.6577	0.2584	-0.3423	0.4289	0	0	0	12	0	0
	423.6100	16.0000	16.0000	15.9032	15.7577	-0.0968	-0.2423	0.2610	0	0	0	0	0	0
	433.8290	16.0000	16.0000	15.4182	15.0530	-0.5818	-0.9470	1.1114	16	0	0	20	0	0
	443.9690	16.0000	16.0000	15.4284	15.6636	-0.5716	-0.3364	0.6632	12	0	0	0	0	0
	454.0320	16.0000	16.0000	15.6555	15.2237	-0.3445	-0.7763	0.8493	10	0	0	18	0	0
	463.9540	16.0000	16.0000	15.7060	15.7406	-0.2940	-0.2594	0.3921	6	0	0	0	0	0
	473.9540	16.0000	16.0000	15.7297	15.3173	-0.2703	-0.6827	0.7343	8	0	0	16	0	0
	484.0790	16.0000	16.0000	15.1470	15.4804	-0.8530	-0.5196	0.9988	18	0	0	7	0	0

 * ml3_lum.00001158_M_13.FIT *

CCDSOFT Tracking Report

Start Date Time = 2006-02-28T11:13:26.187
 Camera = Imager's built-in autoguider
 X Axis = Enabled
 Y Axis = Enabled
 ExposureTime = 9.11
 Aggressiveness Factor = 8
 Calibration Time X = 10.00
 Calibration Time Y = 10.00
 Calibration declination = -0.66
 Declination now = 25.99
 Minimum Move = 0.06
 Maximum Move = 0.50
 Backlash X = 0.00
 Backlash Y = 0.00
 Delay After Move = 0.00
 Autoguide using Relays

Calibration Determined Velocity Vectors (pixels/sec)

XPlus Speed= 9.58200 (XPlus X= 9.12121, XPlus Y= 2.93570) Angle= 17.84000
 XMinus Speed= 9.84950 (XMinus X= -9.31484, XMinus Y= -3.20099) Angle= 198.97000
 YPlus Speed= 5.82500 (YPlus X= 1.96325, YPlus Y= -5.48418) Angle= 289.70000
 YMinus Speed= 5.54710 (YMinus X= -1.66810, YMinus Y= 5.29035) Angle= 107.50000

Elapsed Secs	RefCentroidX	RefCentroidY	CurCentroidX	CurCentroidY	GuideErrX	GuideErrY	TotGuideErr	XPlusRelay	XMinusRelay	YPlusRelay	YMinusRelay	PECIndex	RA	PECIndex	Dec
	0.0000	16.0000	16.0000	17.5131	14.7570	1.5131	-1.2430	1.9582	0	18	0	47	0	0	0
	31.4370	16.0000	16.0000	15.2627	15.5544	-0.7373	-0.4456	0.8615	15	0	0	0	0	0	0
	41.5150	16.0000	16.0000	15.8096	15.0294	-0.1904	-0.9706	0.9891	8	0	0	24	0	0	0
	51.4680	16.0000	16.0000	15.8445	15.8881	-0.1555	-0.1119	0.1916	0	0	0	0	0	0	0
	63.4680	16.0000	16.0000	16.0373	15.2994	0.0373	-0.7006	0.7016	0	0	0	19	0	0	0
	73.5780	16.0000	16.0000	15.7032	15.7807	-0.2968	-0.2193	0.3690	6	0	0	0	0	0	0
	83.7500	16.0000	16.0000	16.0232	15.4772	0.0232	-0.5228	0.5233	0	0	0	14	0	0	0
	93.8750	16.0000	16.0000	16.3818	15.8777	0.3818	-0.1223	0.4009	0	0	0	6	0	0	0
	103.8280	16.0000	16.0000	16.8874	15.8784	0.8874	-0.1216	0.8957	0	14	0	11	0	0	0
	113.7500	16.0000	16.0000	16.3816	15.7929	0.3816	-0.2071	0.4342	0	0	0	8	0	0	0
	123.6090	16.0000	16.0000	16.2475	15.7391	0.2475	-0.2609	0.3596	0	0	0	9	0	0	0
	133.6710	16.0000	16.0000	16.4796	15.7201	0.4796	-0.2799	0.5553	0	6	0	12	0	0	0
	143.8750	16.0000	16.0000	16.7288	15.8885	0.7288	-0.1115	0.7373	0	12	0	9	0	0	0
	153.8590	16.0000	16.0000	16.6116	15.9441	0.6116	-0.0559	0.6141	0	10	0	7	0	0	0
	163.6560	16.0000	16.0000	16.4021	15.8137	0.4021	-0.1863	0.4431	0	0	0	8	0	0	0
	173.8120	16.0000	16.0000	16.5692	15.9256	0.5692	-0.0744	0.5741	0	9	0	7	0	0	0
	183.9530	16.0000	16.0000	16.7071	15.8715	0.7071	-0.1285	0.7187	0	11	0	9	0	0	0
	193.9210	16.0000	16.0000	16.8114	16.0234	0.8114	0.0234	0.8117	0	14	0	6	0	0	0
	204.0780	16.0000	16.0000	16.3797	15.8286	0.3797	-0.1714	0.4166	0	0	0	8	0	0	0
	214.2500	16.0000	16.0000	16.3261	15.7228	0.3261	-0.2772	0.4279	0	0	0	10	0	0	0
	224.1710	16.0000	16.0000	16.3710	15.8234	0.3710	-0.1766	0.4109	0	0	0	8	0	0	0
	234.1560	16.0000	16.0000	16.3598	15.8751	0.3598	-0.1249	0.3809	0	0	0	6	0	0	0
	244.2650	16.0000	16.0000	16.5992	15.7187	0.5992	-0.2813	0.6620	0	8	0	12	0	0	0
	254.1090	16.0000	16.0000	16.1702	15.8332	0.1702	-0.1668	0.2383	0	0	0	6	0	0	0
	264.1400	16.0000	16.0000	16.1571	15.7453	0.1571	-0.2547	0.2993	0	0	0	8	0	0	0
	274.1400	16.0000	16.0000	16.0369	15.7592	0.0369	-0.2408	0.2436	0	0	0	7	0	0	0
	284.2500	16.0000	16.0000	16.0071	15.3792	0.0071	-0.6208	0.6208	0	0	0	16	0	0	0
	294.3900	16.0000	16.0000	15.6978	15.8039	-0.3022	-0.1961	0.3602	6	0	0	0	0	0	0
	304.3590	16.0000	16.0000	15.8882	15.2975	-0.1118	-0.7025	0.7113	0	0	0	18	0	0	0
	314.6090	16.0000	16.0000	15.1879	15.6593	-0.8121	-0.3407	0.8807	16	0	0	0	0	0	0
	324.7500	16.0000	16.0000	15.8711	15.3417	-0.1289	-0.6583	0.6708	6	0	0	16	0	0	0
	334.8590	16.0000	16.0000	16.0073	15.7118	0.0073	-0.2882	0.2883	0	0	0	8	0	0	0

	344.9060	16.0000	16.0000	15.8895	15.4000	-0.1105	-0.6000	0.6101	0	0	0	15	0	0
	355.0930	16.0000	16.0000	15.8134	15.8257	-0.1866	-0.1743	0.2554	0	0	0	0	0	0
	365.1090	16.0000	16.0000	15.9385	15.3522	-0.0615	-0.6478	0.6507	0	0	0	17	0	0
	375.0150	16.0000	16.0000	15.4950	15.8586	-0.5050	-0.1414	0.5244	9	0	0	0	0	0
	385.0310	16.0000	16.0000	16.0688	15.6363	0.0688	-0.3637	0.3701	0	0	0	10	0	0
	394.8900	16.0000	16.0000	15.7835	15.5056	-0.2165	-0.4944	0.5397	6	0	0	12	0	0
	405.0150	16.0000	16.0000	15.9816	15.7192	-0.0184	-0.2808	0.2814	0	0	0	7	0	0
	415.0930	16.0000	16.0000	15.4207	15.4084	-0.5793	-0.5916	0.8280	13	0	0	11	0	0
	425.0460	16.0000	16.0000	15.7971	15.7213	-0.2029	-0.2787	0.3447	0	0	0	0	0	0
	435.0310	16.0000	16.0000	16.0060	15.2630	0.0060	-0.7370	0.7370	0	0	0	20	0	0
	444.9530	16.0000	16.0000	16.0128	15.9517	0.0128	-0.0483	0.0499	0	0	0	0	0	0
	455.0620	16.0000	16.0000	15.8222	15.4160	-0.1778	-0.5840	0.6105	6	0	0	14	0	0
	465.0460	16.0000	16.0000	15.6500	15.8145	-0.3500	-0.1855	0.3961	7	0	0	0	0	0
	475.1400	16.0000	16.0000	16.0384	15.4169	0.0384	-0.5831	0.5844	0	0	0	16	0	0
	485.0620	16.0000	16.0000	15.9206	15.8737	-0.0794	-0.1263	0.1492	0	0	0	0	0	0
	495.3430	16.0000	16.0000	15.7512	15.1276	-0.2488	-0.8724	0.9071	9	0	0	21	0	0