

Titan by season.pdf

Updated 12/2013

Titan notes and discrepancies

For a guide to this display, see [Readme_intro_planetary_data_files](#)

Normally, both comparison stars are utilized to generate the final planetary magnitudes, unless one is found to be intrinsically variable. These are designated "comp2" and "comp3" (Object "1" is always the planetary target, in this case Titan).

The exceptions are

1972 Use comp2 only, HD 24482

1974/74 Use comp2 only HD 53638

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.1488 & 9.2587 MEAN= 8.7037
FOR HD 24482 & 14 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
1	10 72	11326.705	-0.5687	0.0045	1.1025	0.0133	4	4.69	0.1474	8.2642
1	11 72	11327.693	-0.5615	0.0027	1.1040	0.0063	6	4.83	0.1440	8.2675
1	14 72	11330.662	-0.5370	0.0093	1.0927	0.0072	6	4.93	0.1342	8.2818
1	15 72	11331.690	-0.5411	0.0066	1.1001	0.0155	7	5.05	0.1309	8.2738
1	16 72	11332.653	-0.5384	0.0018	1.0902	0.0042	6	5.11	0.1273	8.2727
1	17 72	11333.691	-0.5283	0.0102	1.0849	0.0029	5	5.18	0.1237	8.2790
2	11 72	11358.632	-0.4431	0.0052	1.1076	0.0063	4	6.19	0.0286	8.2651

MEANS	11334.5		0.0058	1.0974	0.0080					8.2720
STD. DEV. FOR N=	7			0.0083						0.0068
STD. ERR. OF MEAN				0.0031						0.0026

MEAN (COMP STAR 2 ONLY)	8.2658
MEAN (COMP STAR 3 ONLY)	8.2782

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	8.2716
	COMP 2 ONLY	8.2601
	COMP 3 ONLY	8.2831

ASSUMED COLOR TERM A2 = -0.0156

ASSUMED B-Y COLORS.....	PLANET	=	0.800
	HD 24482	=	1.163
	HD 14	=	0.489

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 9.3118 & 9.7475 MEAN= 9.5297
FOR HD 24482 & 14 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
1	10	72	11326.705	-0.5507	0.0091	0.4462	0.0056	4	4.69	0.1474	9.1010
1	11	72	11327.698	-0.5352	0.0075	0.4456	0.0058	6	4.83	0.1440	9.1124
1	14	72	11330.664	-0.5135	0.0126	0.4364	0.0058	6	4.93	0.1342	9.1238
1	15	72	11331.699	-0.5141	0.0047	0.4272	0.0084	5	5.05	0.1309	9.1192
1	16	72	11332.653	-0.5165	0.0038	0.4321	0.0076	6	5.11	0.1273	9.1129
1	17	72	11333.700	-0.5101	0.0050	0.4211	0.0024	4	5.18	0.1237	9.1153
2	11	72	11358.633	-0.4205	0.0019	0.4448	0.0014	4	6.19	0.0286	9.1043
MEANS		11334.5		0.0064	0.4362	0.0053					9.1127
STD. DEV. FOR N=		7			0.0099						0.0079
STD. ERR. OF MEAN					0.0037						0.0030

MEAN (COMP STAR 2 ONLY) 9.1129
MEAN (COMP STAR 3 ONLY) 9.1124

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 9.1124
COMP 2 ONLY 9.1090
COMP 3 ONLY 9.1158

ASSUMED COLOR TERM C2 = 1.0047 A2+C2-1 = -0.0108
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 24482 = 1.163
HD 14 = 0.489

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.3802 & 8.3795 MEAN= 8.3799
FOR HD 32174 & 32345 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
9	27	72	11587.984	-0.1546	0.0015	-0.0018	0.0036	3	6.18	0.0659	8.2670
11	30	72	11651.892	-0.3552	0.0040	-0.0038	0.0042	4	1.51	0.2445	8.2633
12	1	72	11652.864	-0.3567	0.0051	0.0041	0.0054	4	0.93	0.2450	8.2646
12	2	72	11653.869	-0.3561	0.0049	0.0006	0.0023	4	0.82	0.2458	8.2664
12	3	72	11654.825	-0.3795	0.0095	-0.0021	0.0029	4	0.72	0.2464	8.2439
12	26	72	11677.727	-0.3609	0.0017	-0.0039	0.0041	4	2.01	0.2353	8.2464
12	27	72	11678.727	-0.3586	0.0027	-0.0017	0.0050	4	2.13	0.2340	8.2469
12	31	72	11682.717	-0.3315	0.0021	-0.0010	0.0005	2	2.57	0.2275	8.2658
1	11	73	11693.723	-0.3197	0.0033	-0.0012	0.0026	4	3.69	0.2023	8.2480

1	24	73	11706.666	-0.2683	0.0014	-0.0011	0.0017	4	4.80	0.1645	8.2574
2	2	73	11715.676	-0.2329	0.0027	-0.0019	0.0011	4	5.33	0.1333	8.2595
2	18	73	11731.631	-0.1693	0.0033	-0.0021	0.0068	4	6.09	0.0718	8.2586
MEANS			11674.0		0.0035	-0.0013	0.0033				8.2573
STD. DEV. FOR N=			12			0.0021					0.0087
STD. ERR. OF MEAN						0.0006					0.0025

MEAN (COMP STAR 2 ONLY)	8.2570
MEAN (COMP STAR 3 ONLY)	8.2576

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	8.2584
	COMP 2 ONLY	8.2569
	COMP 3 ONLY	8.2599

ASSUMED COLOR TERM A2 = -0.0156
 ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 32174	=	0.805
HD 32345	=	0.650

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 9.1851 & 9.0298 MEAN= 9.1075
 FOR HD 32174 & 32345 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
9	27	72	11587.992	-0.0470	0.0041	-0.1525	0.0005	3	6.18	0.0659	9.0930
11	30	72	11651.891	-0.2474	0.0092	-0.1559	0.0056	4	1.51	0.2445	9.0964
12	1	72	11652.865	-0.2554	0.0014	-0.1515	0.0022	4	0.93	0.2450	9.0921
12	2	72	11653.868	-0.2539	0.0013	-0.1528	0.0037	4	0.82	0.2458	9.0950
12	3	72	11654.825	-0.2866	0.0064	-0.1594	0.0043	4	0.72	0.2464	9.0633
12	26	72	11677.727	-0.2601	0.0025	-0.1560	0.0026	4	2.01	0.2353	9.0718
12	27	72	11678.727	-0.2586	0.0036	-0.1567	0.0018	4	2.13	0.2340	9.0713
12	31	72	11682.741	-0.2321	0.0025	-0.1544	0.0013	4	2.57	0.2275	9.0890
1	11	73	11693.724	-0.2183	0.0025	-0.1538	0.0020	4	3.69	0.2023	9.0715
1	24	73	11706.665	-0.1580	0.0010	-0.1577	0.0015	4	4.80	0.1645	9.0881
2	2	73	11715.676	-0.1232	0.0017	-0.1549	0.0022	4	5.33	0.1333	9.0888
2	18	73	11731.631	-0.0611	0.0027	-0.1540	0.0034	4	6.09	0.0718	9.0852
MEANS			11674.0		0.0032	-0.1550	0.0026				9.0838
STD. DEV. FOR N=			12			0.0023					0.0112
STD. ERR. OF MEAN						0.0007					0.0032

MEAN (COMP STAR 2 ONLY)	9.0839
MEAN (COMP STAR 3 ONLY)	9.0836

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	9.0846
	COMP 2 ONLY	9.0839
	COMP 3 ONLY	9.0852

ASSUMED COLOR TERM C2 = 1.0047 A2+C2-1 = -0.0108
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 32174 = 0.805
 HD 32345 = 0.650

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.8004 & 8.0249 MEAN= 7.9127
 FOR HD 41544 & 41830 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	24	73	11979.997	0.2299	0.0007	0.2248	0.0003	4	5.67	0.1242	8.2447
10	25	73	11980.972	0.2207	0.0007	0.2253	0.0015	4	5.63	0.1278	8.2392
10	26	73	11981.950	0.2059	0.0036	0.2264	0.0008	4	5.58	0.1316	8.2284
10	27	73	11982.951	0.1967	0.0121	0.2274	0.0009	4	5.54	0.1355	8.2232
11	27	73	12013.908	0.1098	0.0058	0.2266	0.0053	4	2.97	0.2285	8.2393
12	18	73	12034.841	0.0707	0.0058	0.2232	0.0056	4	0.61	0.2545	8.2355
12	19	73	12035.849	0.0834	0.0025	0.2232	0.0013	3	0.49	0.2548	8.2489
12	21	73	12037.849	0.0814	0.0047	0.2257	0.0037	4	0.33	0.2556	8.2484
1	22	74	12069.748	0.1260	0.0038	0.2198	0.0044	4	3.40	0.2226	8.2480
1	28	74	12075.725	0.1389	0.0084	0.2225	0.0041	4	3.96	0.2025	8.2386
1	29	74	12076.702	0.1337	0.0066	0.2231	0.0031	4	4.06	0.1996	8.2301
2	15	74	12093.675	0.1986	0.0025	0.2219	0.0047	4	5.34	0.1442	8.2346
MEANS		12030.3		0.0048	0.2242	0.0030					8.2382
STD. DEV. FOR N=		12			0.0022						0.0083
STD. ERR. OF MEAN					0.0006						0.0024

MEAN (COMP STAR 2 ONLY) 8.2381
 MEAN (COMP STAR 3 ONLY) 8.2384

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2408
 COMP 2 ONLY 8.2393
 COMP 3 ONLY 8.2422

ASSUMED COLOR TERM A2 = -0.0159
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 41544 = 0.722
 HD 41830 = 0.560

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.5224 & 8.5848 MEAN= 8.5536
FOR HD 41544 & 41830 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	24	73	11979.999	0.4234	0.0024	0.0652	0.0019	3	5.67	0.1242	9.0706
10	25	73	11980.973	0.4131	0.0037	0.0668	0.0010	4	5.63	0.1278	9.0641
10	26	73	11981.949	0.3875	0.0023	0.0665	0.0020	4	5.58	0.1316	9.0426
10	27	73	11982.950	0.3841	0.0048	0.0652	0.0011	4	5.54	0.1355	9.0432
11	27	73	12013.909	0.2968	0.0031	0.0644	0.0017	4	2.97	0.2285	9.0628
12	18	73	12034.839	0.2498	0.0061	0.0638	0.0027	4	0.61	0.2545	9.0546
12	19	73	12035.857	0.2624	0.0025	0.0613	0.0046	4	0.49	0.2548	9.0681
12	21	73	12037.850	0.2707	0.0123	0.0622	0.0050	4	0.33	0.2556	9.0781
1	22	74	12069.749	0.3106	0.0109	0.0657	0.0064	4	3.40	0.2226	9.0684
1	28	74	12075.725	0.3290	0.0103	0.0612	0.0046	4	3.96	0.2025	9.0637
1	29	74	12076.701	0.3258	0.0056	0.0648	0.0026	4	4.06	0.1996	9.0570
2	15	74	12093.676	0.3841	0.0122	0.0618	0.0079	4	5.34	0.1442	9.0530

MEANS 12030.3 0.0063 0.0641 0.0035 9.0605
STD. DEV. FOR N= 12 0.0020 0.0108
STD. ERR. OF MEAN 0.0006 0.0031

MEAN (COMP STAR 2 ONLY) 9.0614
MEAN (COMP STAR 3 ONLY) 9.0597

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0625
COMP 2 ONLY 9.0623
COMP 3 ONLY 9.0627

ASSUMED COLOR TERM C2 = 1.0035 A2+C2-1 = -0.0124
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 41544 = 0.722
HD 41830 = 0.560

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.1175 & 8.2322 MEAN= 8.1748
FOR HD 53638 & 53532 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	10	74	12330.989	0.0747	0.0019	0.1051	0.0008	2	6.35	0.0073	8.2321
10	14	74	12335.009	0.0630	0.0082	0.1018	0.0049	4	6.34	0.0233	8.2364
10	15	74	12335.998	0.0766	0.0047	0.1071	0.0031	3	6.33	0.0274	8.2542
10	16	74	12336.990	0.0468	0.0075	0.1108	0.0058	4	6.33	0.0313	8.2283
10	18	74	12338.995	0.0458	0.0060	0.1132	0.0020	4	6.30	0.0394	8.2355
10	19	74	12340.004	0.0366	0.0017	0.1126	0.0043	4	6.29	0.0436	8.2305
10	20	74	12340.987	0.0331	0.0019	0.1038	0.0018	4	6.28	0.0475	8.2310
11	7	74	12359.011	-0.0314	0.0025	0.1054	0.0062	4	5.69	0.1175	8.2387
11	10	74	12362.012	-0.0432	0.0052	0.0987	0.0041	4	5.51	0.1289	8.2391

11	11	74	12362.976	-0.0482	0.0031	0.0978	0.0020	4	5.45	0.1328	8.2382
11	24	74	12375.939	-0.1130	0.0066	0.0999	0.0028	4	4.56	0.1767	8.2208
11	26	74	12377.921	-0.1006	0.0052	0.1152	0.0085	4	4.39	0.1827	8.2399
11	27	74	12378.920	-0.1145	0.0038	0.1106	0.0032	4	4.31	0.1856	8.2292
11	28	74	12379.915	-0.1244	0.0066	0.1004	0.0011	4	4.23	0.1888	8.2227
11	29	74	12380.922	-0.1121	0.0187	0.0973	0.0057	4	4.14	0.1914	8.2380
11	30	74	12381.914	-0.1311	0.0029	0.1090	0.0042	4	4.03	0.1948	8.2228
12	6	74	12387.926	-0.1431	0.0020	0.1079	0.0050	4	3.49	0.2101	8.2283
12	10	74	12391.895	-0.1631	0.0100	0.1052	0.0057	4	3.08	0.2192	8.2189
12	24	74	12405.859	-0.1865	0.0058	0.0986	0.0051	4	1.55	0.2417	8.2240
12	25	74	12406.874	-0.1891	0.0054	0.0994	0.0113	4	1.44	0.2428	8.2229
12	28	74	12409.850	-0.1909	0.0064	0.0994	0.0031	4	1.09	0.2455	8.2252
1	3	75	12415.852	-0.2082	0.0113	0.1143	0.0296	4	0.37	0.2487	8.2139
1	4	75	12416.823	-0.1916	0.0013	0.1067	0.0067	4	0.29	0.2487	8.2308
1	15	75	12427.832	-0.1784	0.0039	0.0972	0.0089	4	1.07	0.2449	8.2372
1	17	75	12429.816	-0.1927	0.0016	0.0886	0.0028	4	1.30	0.2433	8.2204
1	18	75	12430.796	-0.1706	0.0053	0.0952	0.0044	4	1.41	0.2423	8.2410
1	20	75	12432.818	-0.1842	0.0019	0.0979	0.0009	4	1.64	0.2399	8.2241
1	21	75	12433.828	-0.1761	0.0020	0.1115	0.0031	4	1.76	0.2385	8.2304
2	2	75	12445.755	-0.1569	0.0077	0.1063	0.0028	4	3.04	0.2198	8.2259
2	27	75	12470.714	-0.0770	0.0034	0.1139	0.0019	4	5.18	0.1439	8.2216
3	13	75	12484.714	-0.0063	0.0048	0.0980	0.0060	2	5.93	0.0906	8.2360
4	3	75	12505.640	0.0723	0.0038	0.1200	0.0031	4	6.35	0.0066	8.2290

MEANS	12394.2		0.0051	0.1047	0.0050						8.2302
STD. DEV. FOR N=	32			0.0072							0.0083
STD. ERR. OF MEAN				0.0013							0.0015

MEAN (COMP STAR 2 ONLY)	8.2252
MEAN (COMP STAR 3 ONLY)	8.2352

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	8.2339
	COMP 2 ONLY	8.2261
	COMP 3 ONLY	8.2418

ASSUMED COLOR TERM A2 = -0.0163
 ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 53638	=	0.745
HD 53532	=	0.400

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.8626 & 8.6324 MEAN= 8.7475
 FOR HD 53638 & 53532 FROM FILE= satcompmt sv

UT DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
10 14 74	12335.012	0.3107	0.0064	-0.2423	0.0043	2	6.34	0.0233	9.0473
10 15 74	12336.005	0.3152	0.0123	-0.2386	0.0060	3	6.33	0.0274	9.0559
10 16 74	12336.991	0.2924	0.0059	-0.2384	0.0194	4	6.33	0.0313	9.0371
10 18 74	12338.996	0.2954	0.0003	-0.2343	0.0026	4	6.30	0.0394	9.0483

10	19	74	12340.005	0.2879	0.0041	-0.2377	0.0030	4	6.29	0.0436	9.0450
10	20	74	12340.987	0.2846	0.0007	-0.2475	0.0035	4	6.28	0.0475	9.0457
11	7	74	12359.012	0.2136	0.0063	-0.2406	0.0040	4	5.69	0.1175	9.0479
11	10	74	12362.014	0.2008	0.0026	-0.2465	0.0041	4	5.51	0.1289	9.0475
11	11	74	12362.976	0.2034	0.0039	-0.2482	0.0009	4	5.45	0.1328	9.0542
11	24	74	12375.940	0.1383	0.0104	-0.2467	0.0089	4	4.56	0.1767	9.0379
11	26	74	12377.921	0.1539	0.0121	-0.2311	0.0017	4	4.39	0.1827	9.0604
11	27	74	12378.920	0.1308	0.0033	-0.2363	0.0027	4	4.31	0.1856	9.0406
11	28	74	12379.915	0.1191	0.0034	-0.2456	0.0014	4	4.23	0.1888	9.0325
11	29	74	12380.922	0.1326	0.0095	-0.2488	0.0138	4	4.14	0.1914	9.0491
11	30	74	12381.914	0.1132	0.0010	-0.2351	0.0009	4	4.03	0.1948	9.0337
12	6	74	12387.926	0.1005	0.0021	-0.2426	0.0044	4	3.49	0.2101	9.0393
12	10	74	12391.895	0.0878	0.0149	-0.2374	0.0049	4	3.08	0.2192	9.0378
12	24	74	12405.861	0.0605	0.0037	-0.2466	0.0050	4	1.55	0.2417	9.0413
12	25	74	12406.874	0.0525	0.0110	-0.2462	0.0107	4	1.44	0.2428	9.0350
12	28	74	12409.851	0.0513	0.0045	-0.2489	0.0024	4	1.09	0.2455	9.0384
1	3	75	12415.853	0.0432	0.0087	-0.2641	0.0252	4	0.37	0.2487	9.0374
1	4	75	12416.824	0.0442	0.0031	-0.2401	0.0017	4	0.29	0.2487	9.0388
1	15	75	12427.832	0.0636	0.0007	-0.2479	0.0024	4	1.07	0.2449	9.0503
1	17	75	12429.823	0.0461	0.0094	-0.2477	0.0044	4	1.30	0.2433	9.0299
1	18	75	12430.796	0.0644	0.0051	-0.2500	0.0059	4	1.41	0.2423	9.0465
1	20	75	12432.818	0.0558	0.0020	-0.2470	0.0014	4	1.64	0.2399	9.0343
1	21	75	12433.828	0.0665	0.0046	-0.2372	0.0011	4	1.76	0.2385	9.0430
2	2	75	12445.755	0.0845	0.0047	-0.2377	0.0010	4	3.04	0.2198	9.0354
2	27	75	12470.714	0.1704	0.0077	-0.2320	0.0027	4	5.18	0.1439	9.0339
3	13	75	12484.729	0.2323	0.0067	-0.2487	0.0020	3	5.93	0.0906	9.0383
4	3	75	12505.640	0.3175	0.0041	-0.2235	0.0018	4	6.35	0.0066	9.0373

MEANS 12396.3 0.0057 -0.2424 0.0050 9.0419
 STD. DEV. FOR N= 31 0.0076 0.0074
 STD. ERR. OF MEAN 0.0014 0.0013

MEAN (COMP STAR 2 ONLY) 9.0358
 MEAN (COMP STAR 3 ONLY) 9.0481

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0451
 COMP 2 ONLY 9.0366
 COMP 3 ONLY 9.0537

ASSUMED COLOR TERM C2 = 1.0022 A2+C2-1 = -0.0141
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 53638 = 0.745
 HD 53532 = 0.400

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.0227 & 9.2449 MEAN= 8.6338
 FOR HD 67226 & 68848 FROM FILE= satcompmt sv

UT DATE JUL DATE VAR ERR COMP ERR N DEG DIST PLANET

11	13	75	12730.000	-0.4566	0.0077	1.2189	0.0040	4	5.98	0.0673	8.2212
12	2	75	12748.982	-0.5283	0.0067	1.2214	0.0093	4	4.99	0.1372	8.2233
12	5	75	12751.956	-0.5410	0.0025	1.2258	0.0066	4	4.77	0.1473	8.2215
12	16	75	12762.932	-0.5797	0.0032	1.2209	0.0037	4	3.85	0.1797	8.2187
12	17	75	12763.933	-0.5826	0.0023	1.2183	0.0074	4	3.76	0.1823	8.2188
1	8	76	12785.815	-0.6284	0.0165	1.2302	0.0066	2	1.93	0.2222	8.2200
1	9	76	12786.824	-0.6258	0.0055	1.2248	0.0067	4	1.84	0.2232	8.2241
1	22	76	12799.785	-0.6459	0.0044	1.2370	0.0050	2	0.28	0.2276	8.2144
2	23	76	12831.677	-0.5906	0.0059	1.2350	0.0133	2	3.74	0.1825	8.2111
3	10	76	12847.695	-0.5311	0.0031	1.2238	0.0052	4	5.01	0.1303	8.2135
3	22	76	12859.669	-0.4807	0.0110	1.2194	0.0070	4	5.74	0.0861	8.2168
MEANS			12788.1		0.0063	1.2250	0.0068				8.2185
STD. DEV. FOR N=			11			0.0065					0.0041
STD. ERR. OF MEAN						0.0019					0.0013

MEAN (COMP STAR 2 ONLY) 8.2199
MEAN (COMP STAR 3 ONLY) 8.2171

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2219
COMP 2 ONLY 8.2224
COMP 3 ONLY 8.2214

ASSUMED COLOR TERM A2 = -0.0167
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 67226 = 0.649
HD 68848 = 0.540

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.6713 & 9.7845 MEAN= 9.2279
FOR HD 67226 & 68848 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
11	13	75	12730.002	-0.2393	0.0043	1.1129	0.0044	4	5.98	0.0673	9.0236
12	2	75	12748.984	-0.3145	0.0110	1.1125	0.0048	4	4.99	0.1372	9.0237
12	5	75	12751.957	-0.3296	0.0025	1.1138	0.0038	4	4.77	0.1473	9.0199
12	16	75	12762.932	-0.3673	0.0029	1.1127	0.0029	4	3.85	0.1797	9.0195
12	17	75	12763.934	-0.3665	0.0092	1.1069	0.0027	4	3.76	0.1823	9.0234
1	8	76	12785.827	-0.4081	0.0074	1.1122	0.0023	2	1.93	0.2222	9.0315
1	9	76	12786.824	-0.4194	0.0021	1.1135	0.0010	4	1.84	0.2232	9.0218
1	22	76	12799.810	-0.4499	0.0070	1.1217	0.0108	3	0.28	0.2276	9.0041
2	23	76	12831.688	-0.3755	0.0096	1.0975	0.0033	2	3.74	0.1825	9.0147
3	10	76	12847.694	-0.3205	0.0062	1.1109	0.0030	4	5.01	0.1303	9.0106
3	22	76	12859.669	-0.2672	0.0112	1.1121	0.0072	4	5.74	0.0861	9.0158
MEANS			12788.1		0.0067	1.1115	0.0042				9.0190
STD. DEV. FOR N=			11			0.0058					0.0074
STD. ERR. OF MEAN						0.0017					0.0022

MEAN (COMP STAR 2 ONLY) 9.0181
MEAN (COMP STAR 3 ONLY) 9.0198

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 9.0222
COMP 2 ONLY 9.0205
COMP 3 ONLY 9.0239

ASSUMED COLOR TERM C2 = 1.0010 A2+C2-1 = -0.0157
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 67226 = 0.649
HD 68848 = 0.540

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.9018 & 7.5602 MEAN= 7.7310
FOR HD 77836 & 77985 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
11	21	76	13104.004	0.5018	0.0043	-0.3473	0.0035	3	6.07	0.0177	8.2268
11	22	76	13104.984	0.4919	0.0082	-0.3464	0.0100	4	6.04	0.0216	8.2209
12	1	76	13113.948	0.4551	0.0062	-0.3426	0.0070	2	5.72	0.0560	8.2198
12	8	76	13120.967	0.4365	0.0019	-0.3450	0.0038	4	5.37	0.0817	8.2282
1	27	77	13171.815	0.3111	0.0044	-0.3476	0.0067	3	0.80	0.1931	8.2321
3	24	77	13226.663	0.4047	0.0067	-0.3479	0.0015	4	5.00	0.0975	8.2137
4	8	77	13241.661	0.4702	0.0068	-0.3500	0.0057	4	5.78	0.0416	8.2203
4	17	77	13250.662	0.5138	0.0053	-0.3440	0.0033	4	6.13	0.0059	8.2268
MEANS		13166.8		0.0055	-0.3463	0.0052					8.2236
STD. DEV. FOR N=		8			0.0024						0.0059
STD. ERR. OF MEAN					0.0008						0.0021

MEAN (COMP STAR 2 ONLY) 8.2212
MEAN (COMP STAR 3 ONLY) 8.2259

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 8.2299
COMP 2 ONLY 8.2300
COMP 3 ONLY 8.2298

ASSUMED COLOR TERM A2 = -0.0170
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 77836 = 0.282
HD 77985 = 0.575

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.1837 & 8.1349 MEAN= 8.1593
FOR HD 77836 & 77985 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
11	21	76	13104.015	0.8796	0.0020	-0.0525	0.0027	4	6.07	0.0177	9.0238
11	22	76	13104.983	0.8763	0.0029	-0.0538	0.0022	4	6.04	0.0216	9.0246
12	1	76	13113.963	0.8343	0.0019	-0.0510	0.0010	2	5.72	0.0560	9.0187
12	8	76	13120.967	0.8092	0.0014	-0.0537	0.0056	4	5.37	0.0817	9.0212
1	27	77	13171.827	0.6734	0.0044	-0.0519	0.0056	4	0.80	0.1931	9.0215
3	24	77	13226.662	0.7787	0.0044	-0.0532	0.0026	4	5.00	0.0975	9.0085
4	8	77	13241.661	0.8452	0.0082	-0.0504	0.0083	4	5.78	0.0416	9.0149
4	17	77	13250.662	0.8891	0.0064	-0.0537	0.0048	4	6.13	0.0059	9.0212

MEANS 13166.8 0.0040 -0.0525 0.0041 9.0193
 STD. DEV. FOR N= 8 0.0013 0.0053
 STD. ERR. OF MEAN 0.0005 0.0019

MEAN (COMP STAR 2 ONLY) 9.0174
 MEAN (COMP STAR 3 ONLY) 9.0212

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0257
 COMP 2 ONLY 9.0264
 COMP 3 ONLY 9.0250

ASSUMED COLOR TERM C2 = 0.9998 A2+C2-1 = -0.0173
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 77836 = 0.282
 HD 77985 = 0.575

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.9018 & 7.5602 MEAN= 7.7310
FOR HD 99999 & 77985 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
2	12	77	13186.747	1.1230	0.0030	1.2736	0.0044	3	1.14	0.1900	9.0395
3	6	77	13208.701	1.1749	0.0040	1.2797	0.0069	4	3.52	0.1516	9.0438
3	15	77	13217.617	1.1967	0.0036	1.2804	0.0030	4	4.31	0.1259	9.0368
3	21	77	13223.677	1.2121	0.0032	1.2806	0.0028	4	4.79	0.1075	9.0319

MEANS 13209.2 0.0035 1.2786 0.0043 9.0380
 STD. DEV. FOR N= 4 0.0033 0.0050
 STD. ERR. OF MEAN 0.0017 0.0025

MEAN (COMP STAR 2 ONLY) 9.8481

MEAN (COMP STAR 3 ONLY) 8.2279

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0445
COMP 2 ONLY 9.8571
COMP 3 ONLY 8.2318

ASSUMED COLOR TERM A2 = -0.0174
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 99999 = 0.282
HD 77985 = 0.575

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.1837 & 8.1349 MEAN= 8.1593
FOR HD 99999 & 77985 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
2	12 77	13186.761	1.3593	0.0066	1.3069	0.0034	4	1.14	0.1900	9.7024
3	6 77	13208.702	1.4060	0.0062	1.3061	0.0082	4	3.52	0.1516	9.6979
3	15 77	13217.616	1.4482	0.0063	1.3039	0.0084	4	4.31	0.1259	9.7101
3	21 77	13223.676	1.4569	0.0044	1.3058	0.0059	4	4.79	0.1075	9.6978
MEANS		13209.2		0.0059	1.3057	0.0065				9.7021
STD. DEV. FOR N=		4			0.0013					0.0058
STD. ERR. OF MEAN					0.0006					0.0029

MEAN (COMP STAR 2 ONLY) 10.3793
MEAN (COMP STAR 3 ONLY) 9.0248

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.7091
COMP 2 ONLY 10.3891
COMP 3 ONLY 9.0291

ASSUMED COLOR TERM C2 = 0.9985 A2+C2-1 = -0.0189
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 99999 = 0.282
HD 77985 = 0.575

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.4384 & 7.2418 MEAN= 7.3401
 FOR HD 86359 & 86238 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
1	12	78	13520.934	0.8144	0.0031	-0.2019	0.0033	4	3.80	0.1055	8.2452
2	21	78	13560.830	0.7554	0.0105	-0.1992	0.0057	4	0.60	0.1493	8.2425
2	24	78	13563.785	0.7650	0.0159	-0.2069	0.0074	4	1.00	0.1494	8.2506
3	8	78	13575.778	0.7825	0.0011	-0.1955	0.0052	2	2.29	0.1329	8.2465
3	16	78	13583.744	0.7991	0.0053	-0.1991	0.0014	4	3.11	0.1173	8.2444
3	17	78	13584.738	0.7980	0.0023	-0.1995	0.0017	4	3.21	0.1150	8.2405
3	18	78	13585.753	0.8032	0.0066	-0.1980	0.0041	4	3.31	0.1126	8.2430
3	25	78	13592.710	0.8176	0.0026	-0.2005	0.0028	4	3.96	0.0946	8.2369
3	26	78	13593.712	0.8269	0.0012	-0.1999	0.0032	4	4.04	0.0946	8.2458
4	16	78	13614.632	0.8934	0.0045	-0.2001	0.0025	2	5.50	0.0219	8.2339
4	27	78	13625.660	0.9465	0.0013	-0.1998	0.0011	3	5.96	-0.0207	8.2426
5	10	78	13638.665	1.0046	0.0010	-0.2018	0.0037	4	6.24	-0.0723	8.2480
5	11	78	13639.663	1.0079	0.0035	-0.2025	0.0021	4	6.25	-0.0764	8.2472
5	12	78	13640.662	1.0099	0.0054	-0.2034	0.0025	4	6.26	-0.0807	8.2449
5	13	78	13641.661	1.0095	0.0007	-0.2040	0.0043	4	6.27	-0.0845	8.2407
5	18	78	13646.669	1.0322	0.0030	-0.2031	0.0019	4	6.27	-0.1045	8.2433
5	26	78	13654.664	1.0729	0.0028	-0.2044	0.0019	3	6.19	-0.1358	8.2531
5	28	78	13656.661	1.0767	0.0119	-0.1990	0.0054	3	6.15	-0.1434	8.2494
MEANS		13606.7		0.0046		-0.2010	0.0033				8.2444
STD. DEV. FOR N=		18				0.0027					0.0047
STD. ERR. OF MEAN						0.0006					0.0011

MEAN (COMP STAR 2 ONLY) 8.2422
 MEAN (COMP STAR 3 ONLY) 8.2466

COLOR-CORRECTED PLANET MAGNITUDES.....
 BOTH COMPS 8.2475
 COMP 2 ONLY 8.2474
 COMP 3 ONLY 8.2476

ASSUMED COLOR TERM A2 = -0.0178
 ASSUMED B-Y COLORS.....
 PLANET = 0.800
 HD 86359 = 0.506
 HD 86238 = 0.744

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.9441 & 7.9857 MEAN= 7.9649
 FOR HD 86359 & 86238 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
1	12	78	13520.935	0.9915	0.0014	0.0343	0.0017	4	3.80	0.1055	9.0414
2	21	78	13560.831	0.9310	0.0028	0.0377	0.0063	4	0.60	0.1493	9.0420
2	24	78	13563.785	0.9205	0.0152	0.0431	0.0088	4	1.00	0.1494	9.0294
3	8	78	13575.799	0.9584	0.0008	0.0387	0.0004	3	2.29	0.1329	9.0438
3	16	78	13583.745	0.9714	0.0052	0.0426	0.0045	4	3.11	0.1173	9.0368

3	17	78	13584.738	0.9754	0.0068	0.0368	0.0020	4	3.21	0.1150	9.0379
3	18	78	13585.754	0.9772	0.0075	0.0429	0.0066	4	3.31	0.1126	9.0368
3	25	78	13592.710	0.9941	0.0039	0.0406	0.0007	4	3.96	0.0946	9.0322
3	26	78	13593.713	1.0067	0.0041	0.0359	0.0054	4	4.04	0.0946	9.0444
4	16	78	13614.666	1.0741	0.0014	0.0401	0.0030	4	5.50	0.0219	9.0311
4	27	78	13625.668	1.1257	0.0019	0.0369	0.0040	4	5.96	-0.0207	9.0377
5	10	78	13638.665	1.1841	0.0061	0.0360	0.0057	4	6.24	-0.0723	9.0430
5	11	78	13639.663	1.1884	0.0088	0.0333	0.0029	4	6.25	-0.0764	9.0432
5	12	78	13640.662	1.1948	0.0033	0.0337	0.0051	4	6.26	-0.0807	9.0452
5	13	78	13641.662	1.1910	0.0006	0.0368	0.0038	4	6.27	-0.0845	9.0376
5	18	78	13646.669	1.2118	0.0046	0.0403	0.0058	4	6.27	-0.1045	9.0383
5	26	78	13654.672	1.2557	0.0044	0.0369	0.0112	3	6.19	-0.1358	9.0514
5	28	78	13656.668	1.2501	0.0021	0.0360	0.0031	3	6.15	-0.1434	9.0384

MEANS	13606.7		0.0045	0.0379	0.0045						9.0395
STD. DEV. FOR N=	18			0.0031							0.0054
STD. ERR. OF MEAN				0.0007							0.0013

MEAN (COMP STAR 2 ONLY)	9.0376
MEAN (COMP STAR 3 ONLY)	9.0413

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	9.0431
	COMP 2 ONLY	9.0437
	COMP 3 ONLY	9.0425

ASSUMED COLOR TERM C2 =	0.9973	A2+C2-1 =	-0.0205
ASSUMED B-Y COLORS.....		PLANET =	0.800
		HD 86359 =	0.506
		HD 86238 =	0.744

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 6.5195 & 7.5098 MEAN= 7.0146
FOR HD 95216 & 94460 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	28	78	13809.999	1.5221	0.0050	0.9882	0.0061	2	4.90	-0.2530	8.2647
10	29	78	13810.999	1.5125	0.0043	0.9846	0.0075	4	4.90	-0.2501	8.2579
11	19	78	13832.003	1.4440	0.0017	0.9824	0.0015	4	5.90	-0.1815	8.2541
12	5	78	13848.027	1.3933	0.0047	0.9760	0.0052	4	6.10	-0.1221	8.2621
12	12	78	13855.026	1.3654	0.0005	0.9876	0.0004	3	6.00	-0.0952	8.2615
1	13	79	13886.983	1.2541	0.0060	0.9827	0.0058	4	4.70	0.0200	8.2705
2	16	79	13920.864	1.1550	0.0016	0.9816	0.0023	3	1.60	0.0937	8.2571
3	4	79	13936.841	1.1497	0.0045	0.9879	0.0052	4	0.40	0.0998	8.2626
3	10	79	13942.782	1.1559	0.0045	0.9859	0.0010	4	1.00	0.0965	8.2631
4	3	79	13966.718	1.1969	0.0048	0.9884	0.0015	2	3.10	0.0564	8.2559
4	4	79	13967.733	1.2067	0.0035	0.9854	0.0010	4	3.59	0.0539	8.2612
4	5	79	13968.700	1.2071	0.0027	0.9854	0.0011	4	3.70	0.0514	8.2587
4	28	79	13991.653	1.2872	0.0038	0.9797	0.0022	2	5.36	-0.0215	8.2594
4	29	79	13992.676	1.2910	0.0057	0.9837	0.0075	4	5.41	-0.0252	8.2594

5 15 79 14008.667 1.3582 0.0051 0.9802 0.0039 4 6.03 -0.0863 8.2630
 MEANS 13916.0 0.0039 0.9840 0.0035 8.2607
 STD. DEV. FOR N= 15 0.0036 0.0040
 STD. ERR. OF MEAN 0.0009 0.0010

MEAN (COMP STAR 2 ONLY) 8.2576
 MEAN (COMP STAR 3 ONLY) 8.2639

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2678
 COMP 2 ONLY 8.2670
 COMP 3 ONLY 8.2685

ASSUMED COLOR TERM A2 = -0.0178
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 95216 = 0.270
 HD 94460 = 0.542

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 6.7898 & 8.0514 MEAN= 7.4206
 FOR HD 95216 & 94460 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	28	78	13810.015	1.9188	0.0007	1.2568	0.0020	3	4.90	-0.2530	9.0600
10	29	78	13810.999	1.9009	0.0133	1.2616	0.0102	4	4.90	-0.2501	9.0449
11	19	78	13832.004	1.8470	0.0049	1.2544	0.0027	4	5.90	-0.1815	9.0542
12	5	78	13848.027	1.7986	0.0062	1.2565	0.0031	3	6.10	-0.1221	9.0642
12	12	78	13855.033	1.7719	0.0007	1.2575	0.0019	4	6.00	-0.0952	9.0649
1	13	79	13886.983	1.6576	0.0061	1.2539	0.0023	4	4.70	0.0200	9.0729
2	16	79	13920.875	1.5549	0.0026	1.2512	0.0019	4	1.60	0.0937	9.0606
3	4	79	13936.841	1.5403	0.0018	1.2596	0.0020	4	0.40	0.0998	9.0585
3	10	79	13942.782	1.5441	0.0017	1.2597	0.0034	4	1.00	0.0965	9.0558
4	3	79	13966.750	1.5986	0.0064	1.2552	0.0017	4	3.10	0.0564	9.0589
4	4	79	13967.733	1.6033	0.0020	1.2551	0.0025	4	3.59	0.0539	9.0584
4	5	79	13968.701	1.6094	0.0028	1.2559	0.0022	4	3.70	0.0514	9.0614
4	28	79	13991.668	1.6923	0.0022	1.2513	0.0040	3	5.36	-0.0215	9.0625
4	29	79	13992.676	1.6937	0.0014	1.2526	0.0040	4	5.41	-0.0252	9.0599
5	15	79	14008.668	1.7705	0.0048	1.2479	0.0050	4	6.03	-0.0863	9.0722

MEANS 13916.0 0.0038 1.2553 0.0033 9.0606
 STD. DEV. FOR N= 15 0.0036 0.0068
 STD. ERR. OF MEAN 0.0009 0.0017

MEAN (COMP STAR 2 ONLY) 9.0575
 MEAN (COMP STAR 3 ONLY) 9.0638

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0687
 COMP 2 ONLY 9.0683

ASSUMED COLOR TERM C2 = 0.9973 A2+C2-1 = -0.0205
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 95216 = 0.270
 HD 94460 = 0.542

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.5045 & 8.4816 MEAN= 7.9931
 FOR HD 101443 & 101444 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
12	14	79	14222.019	0.4937	0.0011	0.9747	0.0016	2	5.98	-0.1894	8.2740
12	16	79	14224.029	0.4834	0.0124	0.9707	0.0035	4	6.00	-0.1818	8.2712
12	17	79	14225.007	0.4792	0.0007	0.9712	0.0076	2	6.00	-0.1783	8.2705
12	23	79	14231.028	0.4546	0.0036	0.9742	0.0038	4	5.98	-0.1556	8.2688
1	24	80	14262.987	0.3382	0.0052	0.9766	0.0024	4	4.82	-0.0402	8.2722
3	13	80	14311.869	0.2335	0.0041	0.9807	0.0023	3	0.31	0.0457	8.2710
3	21	80	14319.798	0.2410	0.0068	0.9747	0.0020	4	0.85	0.0429	8.2737
4	6	80	14335.776	0.2673	0.0021	0.9757	0.0014	4	2.55	0.0229	8.2733
4	14	80	14343.752	0.2803	0.0043	0.9805	0.0036	4	3.33	0.0059	8.2663
MEANS		14275.1		0.0045	0.9754	0.0031					8.2712
STD. DEV. FOR N=		9			0.0035						0.0025
STD. ERR. OF MEAN					0.0012						0.0008

MEAN (COMP STAR 2 ONLY) 8.2704
 MEAN (COMP STAR 3 ONLY) 8.2721

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2793
 COMP 2 ONLY 8.2798
 COMP 3 ONLY 8.2788

ASSUMED COLOR TERM A2 = -0.0182
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 101443 = 0.282
 HD 101444 = 0.428

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.7864 & 8.9101 MEAN= 8.3483
 FOR HD 101443 & 101444 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
12	14	79	14222.034	0.9583	0.0024	1.1184	0.0066	3	5.98	-0.1894	9.0848
12	16	79	14224.030	0.9518	0.0049	1.1225	0.0083	4	6.00	-0.1818	9.0858
12	17	79	14225.019	0.9423	0.0030	1.1172	0.0082	2	6.00	-0.1783	9.0798
12	23	79	14231.030	0.9205	0.0023	1.1211	0.0020	4	5.98	-0.1556	9.0809
1	24	80	14262.987	0.7958	0.0026	1.1243	0.0057	4	4.82	-0.0402	9.0778
3	13	80	14311.880	0.6855	0.0072	1.1214	0.0027	4	0.31	0.0457	9.0778
3	21	80	14319.799	0.6979	0.0039	1.1196	0.0023	4	0.85	0.0429	9.0845
4	6	80	14335.776	0.7230	0.0042	1.1249	0.0059	4	2.55	0.0229	9.0803
4	14	80	14343.752	0.7427	0.0069	1.1209	0.0026	4	3.33	0.0059	9.0789
MEANS		14275.1		0.0042	1.1211	0.0049					9.0812
STD. DEV. FOR N=		9			0.0025						0.0031
STD. ERR. OF MEAN					0.0008						0.0010

MEAN (COMP STAR 2 ONLY) 9.0799
 MEAN (COMP STAR 3 ONLY) 9.0825

COLOR-CORRECTED PLANET MAGNITUDES.....
 BOTH COMPS 9.0910
 COMP 2 ONLY 9.0914
 COMP 3 ONLY 9.0907

ASSUMED COLOR TERM C2 = 0.9960 A2+C2-1 = -0.0221
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 101443 = 0.282
 HD 101444 = 0.428

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.2720 & 7.9619 MEAN= 8.1169
 FOR HD 108263 & 108474 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
1	9	81	14614.042	0.3795	0.0031	-0.3117	0.0007	4	5.83	-0.1891	8.2846
1	10	81	14614.990	0.3749	0.0080	-0.3120	0.0058	4	5.82	-0.1856	8.2835
2	4	81	14639.953	0.2856	0.0036	-0.3051	0.0037	4	4.73	-0.0972	8.2869
3	31	81	14694.851	0.1774	0.0074	-0.3091	0.0034	4	0.56	-0.0102	8.2820
4	6	81	14700.802	0.1840	0.0025	-0.3075	0.0037	4	1.15	-0.0137	8.2828
MEANS		14652.9		0.0049	-0.3091	0.0035					8.2840
STD. DEV. FOR N=		5			0.0029						0.0019
STD. ERR. OF MEAN					0.0013						0.0009

MEAN (COMP STAR 2 ONLY) 8.2845
 MEAN (COMP STAR 3 ONLY) 8.2834

COLOR-CORRECTED PLANET MAGNITUDES.....

	BOTH COMPS	8.2890
	COMP 2 ONLY	8.2882
	COMP 3 ONLY	8.2898

ASSUMED COLOR TERM A2 = -0.0189
 ASSUMED B-Y COLORS.....

	PLANET	=	0.800	
	HD 108263	=	0.603	
	HD 108474	=	0.464	

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.8748 & 8.4257 MEAN= 8.6502
 FOR HD 108263 & 108474 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
1	9 81	14614.042	0.6761	0.0024	-0.4464	0.0059	4	5.83	-0.1891	9.1057	
1	10 81	14614.990	0.6730	0.0114	-0.4476	0.0041	4	5.82	-0.1856	9.1062	
2	4 81	14639.953	0.5763	0.0028	-0.4465	0.0048	4	4.73	-0.0972	9.1038	
3	31 81	14694.860	0.4621	0.0010	-0.4492	0.0055	4	0.56	-0.0102	9.0992	
4	6 81	14700.802	0.4639	0.0069	-0.4523	0.0096	4	1.15	-0.0137	9.0943	
MEANS		14652.9		0.0049	-0.4484	0.0060				9.1018	
STD. DEV. FOR N=		5			0.0025					0.0051	
STD. ERR. OF MEAN					0.0011					0.0023	
										MEAN (COMP STAR 2 ONLY)	9.1022
										MEAN (COMP STAR 3 ONLY)	9.1015

COLOR-CORRECTED PLANET MAGNITUDES.....

	BOTH COMPS	9.1086
	COMP 2 ONLY	9.1072
	COMP 3 ONLY	9.1100

ASSUMED COLOR TERM C2 = 0.9936 A2+C2-1 = -0.0254
 ASSUMED B-Y COLORS.....

	PLANET	=	0.800	
	HD 108263	=	0.603	
	HD 108474	=	0.464	

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.2720 & 7.9619 MEAN= 8.1169
 FOR HD 105639 & 109756 FROM FILE= satcompmt.sv

UT DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
3 30 81	14693.813	1.8618	0.0037	1.0301	0.0045	4	0.46	-0.0097	9.9673
3 30 81	14693.813	1.8618	0.0037	1.0301	0.0045	4	0.46	-0.0097	9.9673
MEANS	14693.8		0.0037	1.0301	0.0045				9.9673
STD. DEV. FOR N=	2			0.0000					0.0000
STD. ERR. OF MEAN				0.0000					0.0000

MEAN (COMP STAR 2 ONLY) 10.6374
 MEAN (COMP STAR 3 ONLY) 9.2972

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.9723
 COMP 2 ONLY 10.6411
 COMP 3 ONLY 9.3035

ASSUMED COLOR TERM A2 = -0.0189
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 105639 = 0.603
 HD 109756 = 0.464

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.8748 & 8.4257 MEAN= 8.6502
 FOR HD 105639 & 109756 FROM FILE= satcompmt.csv

UT DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
3 30 81	14693.815	2.2221	0.0036	0.6848	0.0033	4	0.46	-0.0097	10.8602
3 30 81	14693.815	2.2221	0.0036	0.6848	0.0033	4	0.46	-0.0097	10.8602
MEANS	14693.8		0.0036	0.6848	0.0033				10.8602
STD. DEV. FOR N=	2			0.0000					0.0000
STD. ERR. OF MEAN				0.0000					0.0000

MEAN (COMP STAR 2 ONLY) 11.4271
 MEAN (COMP STAR 3 ONLY) 10.2932

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 10.8669
 COMP 2 ONLY 11.4321
 COMP 3 ONLY 10.3018

ASSUMED COLOR TERM C2 = 0.9936 A2+C2-1 = -0.0254
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 105639 = 0.603
 HD 109756 = 0.464

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.2530 & 7.8256 MEAN= 8.0393
 FOR HD 114823 & 115341 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
2	21 82	15021.931	0.4016	0.0082	-0.4288	0.0022	4	4.45	-0.1359	8.2877
4	19 82	15078.769	0.3135	0.0070	-0.4283	0.0059	4	1.15	-0.0659	8.2824
4	25 82	15084.797	0.3280	0.0071	-0.4261	0.0067	3	1.77	-0.0724	8.2880
5	11 82	15100.731	0.3557	0.0021	-0.4217	0.0033	4	3.30	-0.1013	8.2809
5	13 82	15102.738	0.3628	0.0023	-0.4296	0.0110	4	3.50	-0.1062	8.2823
5	29 82	15118.703	0.4131	0.0052	-0.4255	0.0049	3	4.73	-0.1515	8.2824

MEANS 15084.6 0.0053 -0.4267 0.0057 8.2839
 STD. DEV. FOR N= 6 0.0029 0.0031
 STD. ERR. OF MEAN 0.0012 0.0013

MEAN (COMP STAR 2 ONLY) 8.2843
 MEAN (COMP STAR 3 ONLY) 8.2836

COLOR-CORRECTED PLANET MAGNITUDES.....
 BOTH COMPS 8.2921
 COMP 2 ONLY 8.2917
 COMP 3 ONLY 8.2925

ASSUMED COLOR TERM A2 = -0.0193
 ASSUMED B-Y COLORS.....
 PLANET = 0.800
 HD 114823 = 0.418
 HD 115341 = 0.337

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.6705 & 8.1626 MEAN= 8.4166
 FOR HD 114823 & 115341 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
2	21 82	15021.931	0.8536	0.0024	-0.5033	0.0018	4	4.45	-0.1359	9.1103
4	19 82	15078.771	0.7639	0.0033	-0.5066	0.0040	4	1.15	-0.0659	9.1083
4	25 82	15084.803	0.7740	0.0047	-0.5067	0.0062	3	1.77	-0.0724	9.1086
5	11 82	15100.731	0.8060	0.0058	-0.5051	0.0019	4	3.30	-0.1013	9.1035
5	13 82	15102.739	0.8138	0.0130	-0.5013	0.0052	4	3.50	-0.1062	9.1053
5	29 82	15118.709	0.8642	0.0021	-0.5031	0.0047	3	4.73	-0.1515	9.1037

MEANS 15084.6 0.0052 -0.5043 0.0040 9.1066
 STD. DEV. FOR N= 6 0.0022 0.0029

STD. ERR. OF MEAN 0.0009 0.0012

MEAN (COMP STAR 2 ONLY) 9.1084
MEAN (COMP STAR 3 ONLY) 9.1048

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.1180
COMP 2 ONLY 9.1187
COMP 3 ONLY 9.1173

ASSUMED COLOR TERM C2 = 0.9923 A2+C2-1 = -0.0270
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 114823 = 0.418
HD 115341 = 0.337

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 9.0650 & 9.5947 MEAN= 9.3299
FOR HD 121864 & 122288 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
2	15 83	15381.007	-0.7757	0.0071	0.5321	0.0070	4	5.39	-0.2436	8.2896
5	6 83	15460.790	-0.9201	0.0054	0.5314	0.0063	4	1.54	-0.1173	8.2865
5	7 83	15461.748	-0.9202	0.0090	0.5271	0.0112	4	1.67	-0.1187	8.2844
5	15 83	15469.780	-0.8975	0.0029	0.5237	0.0052	4	2.46	-0.1305	8.2923
6	14 83	15499.689	-0.8214	0.0060	0.5278	0.0067	4	4.86	-0.2075	8.2820
6	15 83	15500.701	-0.8118	0.0064	0.5294	0.0075	4	4.92	-0.2108	8.2880
MEANS		15462.3		0.0061	0.5286	0.0073				8.2871
STD. DEV. FOR N=		6			0.0031					0.0037
STD. ERR. OF MEAN					0.0013					0.0015

MEAN (COMP STAR 2 ONLY) 8.2866
MEAN (COMP STAR 3 ONLY) 8.2877

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2958
COMP 2 ONLY 8.2952
COMP 3 ONLY 8.2964

ASSUMED COLOR TERM A2 = -0.0197
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 121864 = 0.359
HD 122288 = 0.359

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 9.4242 & 9.9533 MEAN= 9.6888
FOR HD 121864 & 122288 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
2	15	83	15381.006	-0.3018	0.0048	0.5283	0.0010	4	5.39	-0.2436	9.1143
5	6	83	15460.791	-0.4508	0.0061	0.5325	0.0029	4	1.54	-0.1173	9.1124
5	7	83	15461.748	-0.4481	0.0026	0.5280	0.0034	4	1.67	-0.1187	9.1129
5	15	83	15469.779	-0.4325	0.0030	0.5321	0.0061	4	2.46	-0.1305	9.1125
6	14	83	15499.689	-0.3513	0.0062	0.5282	0.0049	4	4.86	-0.2075	9.1037
6	15	83	15500.701	-0.3423	0.0059	0.5274	0.0060	5	4.92	-0.2108	9.1091
MEANS		15462.3		0.0048	0.5294	0.0041					9.1108
STD. DEV. FOR N=		6			0.0023						0.0039
STD. ERR. OF MEAN					0.0009						0.0016

MEAN (COMP STAR 2 ONLY) 9.1110
MEAN (COMP STAR 3 ONLY) 9.1106

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 9.1234
COMP 2 ONLY 9.1235
COMP 3 ONLY 9.1233

ASSUMED COLOR TERM C2 = 0.9911 A2+C2-1 = -0.0286
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 121864 = 0.359
HD 122288 = 0.359

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.6816 & 9.3054 MEAN= 8.9935
FOR HD 129852 & 129757 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
2	8	84	15739.037	-0.3304	0.0083	0.6203	0.0081	3	5.80	-0.3541	8.2864
2	10	84	15741.001	-0.3413	0.0074	0.6268	0.0033	4	5.80	-0.3470	8.2826
2	11	84	15742.038	-0.3324	0.0047	0.6222	0.0061	3	5.80	-0.3432	8.2953
2	26	84	15757.020	-0.3983	0.0144	0.6258	0.0063	2	5.50	-0.2889	8.2848
3	3	84	15762.981	-0.4125	0.0047	0.6222	0.0058	4	5.30	-0.2681	8.2922
4	4	84	15794.916	-0.5143	0.0034	0.6246	0.0039	4	3.10	-0.1792	8.2879
5	7	84	15827.797	-0.5547	0.0206	0.6396	0.0154	3	0.30	-0.1510	8.2866
5	8	84	15828.797	-0.5561	0.0047	0.6208	0.0094	4	0.40	-0.1512	8.2846
5	24	84	15844.766	-0.5361	0.0100	0.6179	0.0107	4	2.10	-0.1668	8.2824
MEANS		15782.0		0.0087	0.6245	0.0077					8.2870
STD. DEV. FOR N=		9			0.0063						0.0043

STD. ERR. OF MEAN 0.0021 0.0014

MEAN (COMP STAR 2 ONLY) 8.2873
MEAN (COMP STAR 3 ONLY) 8.2867

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2965
COMP 2 ONLY 8.2972
COMP 3 ONLY 8.2957

ASSUMED COLOR TERM A2 = -0.0200
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 129852 = 0.305
HD 129757 = 0.349

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.9867 & 9.6548 MEAN= 9.3208
FOR HD 129852 & 129757 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
2	8 84	15739.047	0.1775	0.0056	0.6613	0.0063	3	5.80	-0.3541	9.1128
2	10 84	15741.002	0.1707	0.0118	0.6684	0.0151	4	5.80	-0.3470	9.1132
2	11 84	15742.044	0.1726	0.0045	0.6641	0.0047	3	5.80	-0.3432	9.1189
2	26 84	15757.019	0.1182	0.0110	0.6705	0.0052	4	5.50	-0.2889	9.1203
3	3 84	15762.982	0.0939	0.0043	0.6548	0.0071	4	5.30	-0.2681	9.1179
4	4 84	15794.915	-0.0044	0.0059	0.6632	0.0068	4	3.10	-0.1792	9.1204
5	7 84	15827.808	-0.0501	0.0142	0.6616	0.0162	4	0.30	-0.1510	9.1180
5	8 84	15828.797	-0.0492	0.0044	0.6635	0.0023	4	0.40	-0.1512	9.1181
5	24 84	15844.766	-0.0303	0.0068	0.6591	0.0026	4	2.10	-0.1668	9.1123

MEANS 15782.0 0.0076 0.6629 0.0074 9.1169
STD. DEV. FOR N= 9 0.0047 0.0032
STD. ERR. OF MEAN 0.0016 0.0011

MEAN (COMP STAR 2 ONLY) 9.1143
MEAN (COMP STAR 3 ONLY) 9.1195

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.1312
COMP 2 ONLY 9.1293
COMP 3 ONLY 9.1331

ASSUMED COLOR TERM C2 = 0.9898 A2+C2-1 = -0.0302
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 129852 = 0.305
HD 129757 = 0.349

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.0827 & 7.7005 MEAN= 7.8916
FOR HD 138970 & 139061 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
3	14	85	16138.973	0.7213	0.0038	-0.3713	0.0021	4	5.55	-0.3063	8.2850
3	22	85	16146.970	0.6852	0.0054	-0.3760	0.0055	4	5.13	-0.2799	8.2769
3	24	85	16148.952	0.6838	0.0040	-0.3723	0.0027	4	4.95	-0.2736	8.2825
4	25	85	16180.876	0.5992	0.0085	-0.3723	0.0037	4	2.29	-0.1985	8.2834
5	2	85	16187.864	0.5834	0.0060	-0.3716	0.0032	4	1.60	-0.1902	8.2785
5	27	85	16212.776	0.5740	0.0064	-0.3657	0.0111	2	1.20	-0.1889	8.2720
6	10	85	16226.758	0.6075	0.0064	-0.3715	0.0033	4	2.70	-0.2080	8.2806

MEANS	16177.6		0.0058	-0.3715	0.0045					8.2798
STD. DEV. FOR N=	7			0.0030						0.0045
STD. ERR. OF MEAN				0.0011						0.0017

MEAN (COMP STAR 2 ONLY)	8.2852
MEAN (COMP STAR 3 ONLY)	8.2745

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	8.2867
	COMP 2 ONLY	8.2878
	COMP 3 ONLY	8.2855

ASSUMED COLOR TERM A2 = -0.0204
ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 138970	=	0.670
HD 139061	=	0.260

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.7523 & 7.9601 MEAN= 8.3562
FOR HD 138970 & 139061 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
3	14	85	16138.974	1.0888	0.0020	-0.7751	0.0026	4	5.55	-0.3063	9.1088
3	22	85	16146.970	1.0575	0.0036	-0.7769	0.0028	4	5.13	-0.2799	9.1061
3	24	85	16148.952	1.0492	0.0031	-0.7726	0.0043	4	4.95	-0.2736	9.1051
4	25	85	16180.877	0.9692	0.0047	-0.7681	0.0074	4	2.29	-0.1985	9.1145
5	2	85	16187.864	0.9527	0.0069	-0.7742	0.0057	4	1.60	-0.1902	9.1100
5	27	85	16212.790	0.9491	0.0010	-0.7773	0.0050	2	1.20	-0.1889	9.1099
6	10	85	16226.758	0.9689	0.0060	-0.7712	0.0042	4	2.70	-0.2080	9.1026

MEANS 16177.6 0.0039 -0.7736 0.0046 9.1081
 STD. DEV. FOR N= 7 0.0033 0.0039
 STD. ERR. OF MEAN 0.0012 0.0015

MEAN (COMP STAR 2 ONLY) 9.1174
 MEAN (COMP STAR 3 ONLY) 9.0988

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.1188
 COMP 2 ONLY 9.1216
 COMP 3 ONLY 9.1160

ASSUMED COLOR TERM C2 = 0.9886 A2+C2-1 = -0.0318
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 138970 = 0.670
 HD 139061 = 0.260

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.6972 & 8.5697 MEAN= 8.6334
 FOR HD 147195 & 147807 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
4	10 86	16530.937	-0.0622	0.0034	-0.1270	0.0024	4	4.83	-0.2846	8.2678
4	18 86	16538.919	-0.0859	0.0015	-0.1283	0.0047	4	4.18	-0.2628	8.2685
5	4 86	16554.871	-0.1282	0.0092	-0.1223	0.0069	4	2.67	-0.2292	8.2656
5	11 86	16561.873	-0.1440	0.0072	-0.1230	0.0096	4	1.95	-0.2193	8.2625
6	13 86	16594.789	-0.1364	0.0024	-0.1332	0.0031	4	1.82	-0.2192	8.2707
6	14 86	16595.782	-0.1437	0.0048	-0.1219	0.0088	4	1.95	-0.2207	8.2615
7	6 86	16617.691	-0.0953	0.0033	-0.1197	0.0048	4	4.11	-0.2626	8.2595

MEANS 16570.7 0.0045 -0.1251 0.0058 8.2652
 STD. DEV. FOR N= 7 0.0047 0.0041
 STD. ERR. OF MEAN 0.0018 0.0016

MEAN (COMP STAR 2 ONLY) 8.2664
 MEAN (COMP STAR 3 ONLY) 8.2639

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2745
 COMP 2 ONLY 8.2747
 COMP 3 ONLY 8.2742

ASSUMED COLOR TERM A2 = -0.0208
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 147195 = 0.399
 HD 147807 = 0.305

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 9.0957 & 8.8746 MEAN= 8.9852
FOR HD 147195 & 147807 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
4	10 86	16530.937	0.4148	0.0033	-0.2108	0.0127	4	4.83	-0.2846	9.0893
4	18 86	16538.919	0.3919	0.0050	-0.2218	0.0065	4	4.18	-0.2628	9.0917
5	4 86	16554.871	0.3483	0.0105	-0.2231	0.0124	4	2.67	-0.2292	9.0898
5	11 86	16561.873	0.3265	0.0080	-0.2131	0.0053	4	1.95	-0.2193	9.0818
6	13 86	16594.790	0.3363	0.0065	-0.2219	0.0045	4	1.82	-0.2192	9.0924
6	14 86	16595.783	0.3360	0.0056	-0.2219	0.0066	4	1.95	-0.2207	9.0900
7	6 86	16617.691	0.3921	0.0072	-0.2181	0.0095	4	4.11	-0.2626	9.0925

MEANS 16570.7 0.0066 -0.2187 0.0082 9.0896
STD. DEV. FOR N= 7 0.0049 0.0037
STD. ERR. OF MEAN 0.0018 0.0014

MEAN (COMP STAR 2 ONLY) 9.0908
MEAN (COMP STAR 3 ONLY) 9.0884

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.1046
COMP 2 ONLY 9.1043
COMP 3 ONLY 9.1050

ASSUMED COLOR TERM C2 = 0.9874 A2+C2-1 = -0.0334
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 147195 = 0.399
HD 147807 = 0.305

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.5097 & 6.7840 MEAN= 7.1468
FOR HD 156079 & 155233 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
4	3 87	16888.981	1.4921	0.0036	-0.7343	0.0047	4	5.90	-0.3629	8.2530
5	22 87	16937.865	1.3572	0.0054	-0.7335	0.0032	4	2.08	-0.2374	8.2585
5	29 87	16944.841	1.3426	0.0033	-0.7413	0.0073	4	1.26	-0.2302	8.2543
6	16 87	16962.811	1.3334	0.0034	-0.7315	0.0049	4	0.83	-0.2280	8.2490
6	23 87	16969.775	1.3390	0.0103	-0.7266	0.0090	3	1.63	-0.2331	8.2464

MEANS 16940.9 0.0052 -0.7334 0.0058 8.2523
STD. DEV. FOR N= 5 0.0053 0.0047

STD. ERR. OF MEAN 0.0024 0.0021

MEAN (COMP STAR 2 ONLY) 8.2484
MEAN (COMP STAR 3 ONLY) 8.2561

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2592
COMP 2 ONLY 8.2573
COMP 3 ONLY 8.2611

ASSUMED COLOR TERM A2 = -0.0212
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 156079 = 0.380
HD 155233 = 0.563

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.8898 & 7.3473 MEAN= 7.6185
FOR HD 156079 & 155233 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
4	3 87	16888.981	1.8573	0.0056	-0.5535	0.0030	4	5.90	-0.3629	9.0811
5	22 87	16937.865	1.7094	0.0055	-0.5552	0.0051	4	2.08	-0.2374	9.0793
5	29 87	16944.842	1.6974	0.0074	-0.5604	0.0044	4	1.26	-0.2302	9.0789
6	16 87	16962.811	1.6839	0.0040	-0.5518	0.0017	4	0.83	-0.2280	9.0700
6	23 87	16969.781	1.6964	0.0105	-0.5510	0.0065	3	1.63	-0.2331	9.0731
MEANS		16940.9		0.0066	-0.5544	0.0041				9.0765
STD. DEV. FOR N=		5			0.0037					0.0047
STD. ERR. OF MEAN					0.0017					0.0021

MEAN (COMP STAR 2 ONLY) 9.0705
MEAN (COMP STAR 3 ONLY) 9.0824

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0880
COMP 2 ONLY 9.0852
COMP 3 ONLY 9.0907

ASSUMED COLOR TERM C2 = 0.9861 A2+C2-1 = -0.0350
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 156079 = 0.380
HD 155233 = 0.563

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.8678 & 8.7706 MEAN= 8.3192
FOR HD 163935 & 163799 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
5	9 88	17290.951	0.2362	0.0061	0.9284	0.0052	4	4.38	-0.2925	8.2458
5	15 88	17296.926	0.2092	0.0067	0.9267	0.0025	4	3.86	-0.2775	8.2359
5	22 88	17303.879	0.1951	0.0069	0.9306	0.0026	4	3.17	-0.2647	8.2372
6	7 88	17319.838	0.1587	0.0032	0.9307	0.0076	3	1.53	-0.2392	8.2327
6	16 88	17328.822	0.1626	0.0045	0.9349	0.0101	4	0.45	-0.2334	8.2466
MEANS		17308.1		0.0055	0.9303	0.0056				8.2397
STD. DEV. FOR N=		5			0.0031					0.0062
STD. ERR. OF MEAN					0.0014					0.0028

MEAN (COMP STAR 2 ONLY) 8.2534
MEAN (COMP STAR 3 ONLY) 8.2259

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 8.2429
COMP 2 ONLY 8.2498
COMP 3 ONLY 8.2359

ASSUMED COLOR TERM A2 = -0.0215
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 163935 = 0.965
HD 163799 = 0.336

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.8333 & 9.1062 MEAN= 8.9697
FOR HD 163935 & 163799 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
5	9 88	17290.952	0.4265	0.0081	0.3077	0.0041	4	4.38	-0.2925	9.0801
5	15 88	17296.925	0.3999	0.0041	0.3076	0.0047	4	3.86	-0.2775	9.0713
5	22 88	17303.879	0.3729	0.0053	0.3092	0.0070	4	3.17	-0.2647	9.0608
6	7 88	17319.845	0.3400	0.0132	0.3096	0.0080	4	1.53	-0.2392	9.0623
6	16 88	17328.822	0.3226	0.0094	0.3133	0.0042	4	0.45	-0.2334	9.0565
MEANS		17308.1		0.0080	0.3095	0.0056				9.0662
STD. DEV. FOR N=		5			0.0023					0.0095
STD. ERR. OF MEAN					0.0010					0.0042

MEAN (COMP STAR 2 ONLY) 9.0845
MEAN (COMP STAR 3 ONLY) 9.0479

COLOR-CORRECTED PLANET MAGNITUDES.....

	BOTH COMPS	9.0717
	COMP 2 ONLY	9.0784
	COMP 3 ONLY	9.0649

ASSUMED COLOR TERM C2 = 0.9849 A2+C2-1 = -0.0366
ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 163935 = 0.965
 HD 163799 = 0.336

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.2807 & 7.1851 MEAN= 7.7329
FOR HD 172597 & 174170 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
5	18 89	17664.900	0.8118	0.0092	-1.1066	0.0067	2	4.18	-0.2989	8.2295	
5	19 89	17665.943	0.8123	0.0065	-1.0997	0.0114	3	4.10	-0.2961	8.2331	
5	26 89	17672.931	0.7976	0.0047	-1.0958	0.0039	4	3.57	-0.2778	8.2388	
6	10 89	17687.875	0.7668	0.0035	-1.0952	0.0038	4	2.26	-0.2479	8.2430	
6	11 89	17688.870	0.7561	0.0061	-1.0927	0.0010	4	2.16	-0.2462	8.2343	
MEANS		17676.1		0.0060	-1.0980	0.0054				8.2358	
STD. DEV. FOR N=		5			0.0054					0.0052	
STD. ERR. OF MEAN					0.0024					0.0023	
										MEAN (COMP STAR 2 ONLY)	8.2346
										MEAN (COMP STAR 3 ONLY)	8.2370

COLOR-CORRECTED PLANET MAGNITUDES.....

	BOTH COMPS	8.2354
	COMP 2 ONLY	8.2335
	COMP 3 ONLY	8.2372

ASSUMED COLOR TERM A2 = -0.0219
ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 172597 = 0.849
 HD 174170 = 0.787

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 9.1294 & 7.9719 MEAN= 8.5507
FOR HD 172597 & 174170 FROM FILE= satcompmt.sv

HD 184509 = 0.322

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.4913 & 7.0396 MEAN= 7.2654
FOR HD 182481 & 184509 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
6	20	90	18062.889	2.0205	0.0011	-0.4271	0.0012	2	2.46	-0.2392	9.0335
6	21	90	18063.876	2.0155	0.0010	-0.4275	0.0053	2	2.36	-0.2375	9.0307
7	22	90	18094.785	1.9982	0.0104	-0.4269	0.0130	4	0.79	-0.2193	9.0401
8	23	90	18126.685	2.0644	0.0007	-0.4309	0.0019	2	3.76	-0.2690	9.0406
8	24	90	18127.676	2.0612	0.0065	-0.4353	0.0050	2	3.84	-0.2716	9.0343
MEANS		18095.2		0.0039	-0.4295	0.0053					9.0358
STD. DEV. FOR N=		5			0.0036						0.0043
STD. ERR. OF MEAN					0.0016						0.0019
										MEAN (COMP STAR 2 ONLY)	9.0469
										MEAN (COMP STAR 3 ONLY)	9.0247

COLOR-CORRECTED PLANET MAGNITUDES.....

BOTH COMPS	9.0464
COMP 2 ONLY	9.0490
COMP 3 ONLY	9.0438

ASSUMED COLOR TERM C2 = 0.9824 A2+C2-1 = -0.0399
ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 182481 = 0.747
 HD 184509 = 0.322

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 6.8952 & 7.7846 MEAN= 7.3399
FOR HD 193335 & 193454 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
6	15	91	18422.918	1.1500	0.0018	0.8996	0.0019	2	3.92	-0.2560	8.2186
6	16	91	18423.937	1.1598	0.0009	0.9131	0.0113	2	3.84	-0.2534	8.2313
6	22	91	18429.923	1.1293	0.0082	0.8931	0.0108	2	3.39	-0.2385	8.2175
6	23	91	18430.934	1.1344	0.0094	0.9012	0.0004	2	3.32	-0.2361	8.2252

7	2	91	18439.881	1.1144	0.0044	0.9000	0.0083	2	2.47	-0.2182	8.2265
10	4	91	18533.615	1.2364	0.0031	0.8983	0.0007	4	5.44	-0.3389	8.2162
10	5	91	18534.613	1.2449	0.0081	0.9014	0.0039	4	5.45	-0.3423	8.2213
10	6	91	18535.611	1.2537	0.0062	0.9034	0.0019	4	5.47	-0.3459	8.2264
10	14	91	18543.592	1.2745	0.0092	0.8976	0.0035	2	5.70	-0.3762	8.2160
MEANS			18477.2		0.0057	0.9009	0.0047				8.2221
STD. DEV. FOR N=			9			0.0054					0.0055
STD. ERR. OF MEAN						0.0018					0.0018

MEAN (COMP STAR 2 ONLY)	8.2278
MEAN (COMP STAR 3 ONLY)	8.2164

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	8.2284
	COMP 2 ONLY	8.2292
	COMP 3 ONLY	8.2277

ASSUMED COLOR TERM A2 = -0.0226
ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 193335	=	0.741
HD 193454	=	0.298

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.6362 & 8.0828 MEAN= 7.8595
FOR HD 193335 & 193454 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
6	15	91	18422.937	1.4467	0.0023	0.4696	0.0010	2	3.92	-0.2560	9.0290
6	16	91	18423.937	1.4468	0.0070	0.4768	0.0043	2	3.84	-0.2534	9.0322
6	22	91	18429.923	1.4253	0.0054	0.4742	0.0050	2	3.39	-0.2385	9.0280
6	23	91	18430.934	1.4245	0.0012	0.4691	0.0054	2	3.32	-0.2361	9.0300
7	2	91	18439.881	1.4076	0.0056	0.4793	0.0110	2	2.47	-0.2182	9.0356
10	4	91	18533.615	1.5337	0.0024	0.4681	0.0065	4	5.44	-0.3389	9.0249
10	5	91	18534.615	1.5341	0.0048	0.4769	0.0061	4	5.45	-0.3423	9.0219
10	6	91	18535.612	1.5462	0.0035	0.4723	0.0048	4	5.47	-0.3459	9.0302
10	14	91	18543.592	1.5656	0.0137	0.4790	0.0063	2	5.70	-0.3762	9.0181
MEANS			18477.2		0.0051	0.4739	0.0056				9.0278
STD. DEV. FOR N=			9			0.0043					0.0053
STD. ERR. OF MEAN						0.0014					0.0018

MEAN (COMP STAR 2 ONLY)	9.0414
MEAN (COMP STAR 3 ONLY)	9.0141

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	9.0394
	COMP 2 ONLY	9.0439
	COMP 3 ONLY	9.0349

ASSUMED COLOR TERM C2 = 0.9812 A2+C2-1 = -0.0415

FOR HD 199947 & 202261 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
7	1	92	18804.929	2.6199	0.0023	-0.1433	0.0054	4	3.57	-0.2143	9.0432
7	2	92	18805.919	2.6070	0.0014	-0.1475	0.0021	4	3.49	-0.2119	9.0331
9	12	92	18877.699	2.6036	0.0072	-0.1490	0.0043	4	3.49	-0.2078	9.0337
9	21	92	18886.674	2.6354	0.0037	-0.1504	0.0040	4	4.16	-0.2310	9.0388
9	27	92	18892.689	2.6465	0.0078	-0.1499	0.0053	4	4.61	-0.2485	9.0299
9	29	92	18894.690	2.6524	0.0054	-0.1471	0.0022	4	4.69	-0.2513	9.0326
9	29	92	18894.696	2.6568	0.0044	-0.1590	0.0045	3	4.76	-0.2546	9.0333
10	13	92	18908.616	2.7144	0.0082	-0.1510	0.0085	4	5.40	-0.3005	9.0415
10	14	92	18909.610	2.7120	0.0038	-0.1530	0.0010	4	5.43	-0.3042	9.0353
10	15	92	18910.611	2.7108	0.0025	-0.1501	0.0065	4	5.45	-0.3076	9.0306
MEANS		18878.6		0.0047	-0.1500	0.0044					9.0352
STD. DEV. FOR N=		10			0.0041						0.0045
STD. ERR. OF MEAN					0.0013						0.0014

MEAN (COMP STAR 2 ONLY) 9.0386
MEAN (COMP STAR 3 ONLY) 9.0318

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0424
COMP 2 ONLY 9.0422
COMP 3 ONLY 9.0426

ASSUMED COLOR TERM C2 = 0.9799 A2+C2-1 = -0.0431
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 199947 = 0.715
HD 202261 = 0.551

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 6.9743 & 7.1411 MEAN= 7.0577
FOR HD 207061 & 208704 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
7	3	93	19171.941	1.4014	0.0024	0.1640	0.0041	3	4.44	-0.2062	8.2356
7	4	93	19172.943	1.4089	0.0038	0.1665	0.0033	4	4.37	-0.2033	8.2463
7	11	93	19179.942	1.3831	0.0046	0.1665	0.0064	3	4.14	-0.1835	8.2412
7	27	93	19195.890	1.3358	0.0048	0.1639	0.0017	4	2.46	-0.1481	8.2358
7	28	93	19196.879	1.3355	0.0036	0.1630	0.0012	4	2.36	-0.1464	8.2376
8	13	93	19212.842	1.3050	0.0032	0.1640	0.0078	4	0.77	-0.1286	8.2311
9	15	93	19245.737	1.3286	0.0075	0.1673	0.0047	4	2.72	-0.1499	8.2258
9	21	93	19251.743	1.3538	0.0028	0.1695	0.0039	4	3.24	-0.1621	8.2368
9	23	93	19253.699	1.3501	0.0030	0.1649	0.0056	4	3.39	-0.1662	8.2284
MEANS		19209.1		0.0040	0.1655	0.0043					8.2354
STD. DEV. FOR N=		9			0.0021						0.0063
STD. ERR. OF MEAN					0.0007						0.0021

MEAN (COMP STAR 2 ONLY) 8.2347
MEAN (COMP STAR 3 ONLY) 8.2360

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2469
COMP 2 ONLY 8.2473
COMP 3 ONLY 8.2464

ASSUMED COLOR TERM A2 = -0.0234
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 207061 = 0.264
HD 208704 = 0.355

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.2387 & 7.4958 MEAN= 7.3673
FOR HD 207061 & 208704 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
7	3 93	19171.950	1.9024	0.0025	0.2588	0.0037	4	4.44	-0.2062	9.0395
7	4 93	19172.943	1.8981	0.0068	0.2616	0.0026	4	4.37	-0.2033	9.0385
7	11 93	19179.948	1.8761	0.0026	0.2589	0.0028	3	4.14	-0.1835	9.0375
7	27 93	19195.891	1.8271	0.0011	0.2603	0.0022	4	2.46	-0.1481	9.0329
7	28 93	19196.880	1.8185	0.0044	0.2590	0.0007	4	2.36	-0.1464	9.0266
8	13 93	19212.842	1.7949	0.0094	0.2650	0.0023	4	0.77	-0.1286	9.0294
9	15 93	19245.737	1.8141	0.0066	0.2600	0.0018	4	2.72	-0.1499	9.0168
9	21 93	19251.743	1.8423	0.0032	0.2579	0.0065	4	3.24	-0.1621	9.0300
9	23 93	19253.699	1.8442	0.0062	0.2555	0.0032	4	3.39	-0.1662	9.0269
MEANS	19209.1			0.0048	0.2597	0.0029				9.0309
STD. DEV. FOR N=	9				0.0026					0.0072
STD. ERR. OF MEAN					0.0009					0.0024

MEAN (COMP STAR 2 ONLY) 9.0322
MEAN (COMP STAR 3 ONLY) 9.0296

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0528
COMP 2 ONLY 9.0561
COMP 3 ONLY 9.0495

ASSUMED COLOR TERM C2 = 0.9787 A2+C2-1 = -0.0447
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 207061 = 0.264
HD 208704 = 0.355

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 6.9157 & 7.0138 MEAN= 6.9648
 FOR HD 214572 & 215097 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
8	24	94	19588.854	1.3696	0.0043	0.0919	0.0036	4	0.80	-0.0849	8.2463
8	30	94	19594.822	1.3715	0.0043	0.0937	0.0043	4	0.33	-0.0820	8.2530
9	7	94	19602.782	1.3670	0.0074	0.0935	0.0069	4	0.63	-0.0826	8.2467
9	8	94	19603.795	1.3655	0.0011	0.0933	0.0036	4	0.73	-0.0831	8.2443
9	9	94	19604.791	1.3722	0.0059	0.0939	0.0046	4	0.83	-0.0836	8.2502
9	15	94	19610.768	1.3789	0.0046	0.0941	0.0024	4	1.43	-0.0878	8.2502
MEANS		19601.0		0.0046	0.0934	0.0042					8.2485
STD. DEV. FOR N=		6			0.0008						0.0032
STD. ERR. OF MEAN					0.0003						0.0013

MEAN (COMP STAR 2 ONLY) 8.2461
 MEAN (COMP STAR 3 ONLY) 8.2508

COLOR-CORRECTED PLANET MAGNITUDES.....
 BOTH COMPS 8.2568
 COMP 2 ONLY 8.2567
 COMP 3 ONLY 8.2569

ASSUMED COLOR TERM A2 = -0.0238
 ASSUMED B-Y COLORS.....
 PLANET = 0.800
 HD 214572 = 0.353
 HD 215097 = 0.543

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.2685 & 7.5569 MEAN= 7.4127
 FOR HD 214572 & 215097 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
8	24	94	19588.856	1.7290	0.0031	0.2786	0.0014	4	0.80	-0.0849	9.0524
8	30	94	19594.823	1.7268	0.0044	0.2796	0.0035	4	0.33	-0.0820	9.0557
9	7	94	19602.782	1.7225	0.0062	0.2799	0.0040	4	0.63	-0.0826	9.0492
9	8	94	19603.795	1.7215	0.0070	0.2793	0.0018	4	0.73	-0.0831	9.0472
9	9	94	19604.791	1.7342	0.0173	0.2773	0.0086	4	0.83	-0.0836	9.0589
9	15	94	19610.767	1.7362	0.0022	0.2800	0.0034	4	1.43	-0.0878	9.0533
MEANS		19601.0		0.0067	0.2791	0.0038					9.0528
STD. DEV. FOR N=		6			0.0010						0.0042
STD. ERR. OF MEAN					0.0004						0.0017

MEAN (COMP STAR 2 ONLY) 9.0482
MEAN (COMP STAR 3 ONLY) 9.0574

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 9.0691
COMP 2 ONLY 9.0689
COMP 3 ONLY 9.0693

ASSUMED COLOR TERM C2 = 0.9774 A2+C2-1 = -0.0463
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 214572 = 0.353
HD 215097 = 0.543

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.7349 & 6.1390 MEAN= 6.9369
FOR HD 219564 & 220035 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
9	3 95	19963.834	1.3687	0.0015	-1.5873	0.0044	4	1.33	-0.0378	8.2627
9	19 95	19979.792	1.3621	0.0043	-1.5925	0.0031	4	0.50	-0.0329	8.2642
9	20 95	19980.789	1.3557	0.0053	-1.5887	0.0041	4	0.60	-0.0332	8.2571
10	4 95	19994.743	1.3791	0.0053	-1.5939	0.0018	4	2.14	-0.0456	8.2621
10	12 95	20002.723	1.3993	0.0014	-1.5914	0.0022	4	2.92	-0.0589	8.2660
10	13 95	20003.710	1.4049	0.0015	-1.5898	0.0003	2	3.00	-0.0609	8.2693
10	14 95	20004.702	1.4022	0.0029	-1.5921	0.0044	4	3.12	-0.0629	8.2641
10	19 95	20009.680	1.4118	0.0052	-1.5848	0.0086	4	3.15	-0.0738	8.2627
10	20 95	20010.687	1.4123	0.0076	-1.5886	0.0026	4	3.62	-0.0763	8.2589
MEANS	19994.5			0.0039	-1.5899	0.0035				8.2630
STD. DEV. FOR N=	9				0.0029					0.0036
STD. ERR. OF MEAN					0.0010					0.0012

MEAN (COMP STAR 2 ONLY) 8.2660
MEAN (COMP STAR 3 ONLY) 8.2600

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 8.2668
COMP 2 ONLY 8.2690
COMP 3 ONLY 8.2647

ASSUMED COLOR TERM A2 = -0.0241
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 219564 = 0.676
HD 220035 = 0.606

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.4110 & 6.7446 MEAN= 7.5778
 FOR HD 219564 & 220035 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
9	3	19963.835	1.5436	0.0041	-1.6612	0.0028	4	1.33	-0.0378	9.0764
9	19	19979.792	1.5309	0.0031	-1.6609	0.0017	4	0.50	-0.0329	9.0731
9	20	19980.789	1.5324	0.0062	-1.6602	0.0044	4	0.60	-0.0332	9.0738
10	4	19994.743	1.5565	0.0043	-1.6637	0.0034	4	2.14	-0.0456	9.0772
10	12	20002.723	1.5776	0.0019	-1.6634	0.0057	4	2.92	-0.0589	9.0808
10	13	20003.710	1.5736	0.0024	-1.6644	0.0003	2	3.00	-0.0609	9.0743
10	14	20004.702	1.5750	0.0025	-1.6616	0.0015	4	3.12	-0.0629	9.0731
10	19	20009.681	1.5911	0.0050	-1.6562	0.0054	4	3.15	-0.0738	9.0781
10	20	20010.688	1.5870	0.0105	-1.6652	0.0058	4	3.62	-0.0763	9.0690

MEANS 19994.5 0.0044 -1.6619 0.0034 9.0751
 STD. DEV. FOR N= 9 0.0027 0.0034
 STD. ERR. OF MEAN 0.0009 0.0011

MEAN (COMP STAR 2 ONLY) 9.0773
 MEAN (COMP STAR 3 ONLY) 9.0728

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0827
 COMP 2 ONLY 9.0833
 COMP 3 ONLY 9.0821

ASSUMED COLOR TERM C2 = 0.9762 A2+C2-1 = -0.0479
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 219564 = 0.676
 HD 220035 = 0.606

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.1354 & 6.2767 MEAN= 6.7060
 FOR HD 225028 & 6 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
9	22	20348.829	1.5427	0.0060	-0.8713	0.0028	4	0.57	0.0186	8.2651
9	23	20349.800	1.5464	0.0057	-0.8687	0.0034	4	0.48	0.0191	8.2697
10	4	20360.788	1.5517	0.0065	-0.8655	0.0033	4	0.88	0.0180	8.2723
10	6	20362.779	1.5493	0.0031	-0.8641	0.0008	4	1.09	0.0169	8.2680
11	1	20388.712	1.6051	0.0057	-0.8653	0.0025	4	3.66	-0.0249	8.2720

MEANS 20362.2 0.0054 -0.8670 0.0026 8.2694
 STD. DEV. FOR N= 5 0.0030 0.0030

STD. ERR. OF MEAN 0.0013 0.0013

MEAN (COMP STAR 2 ONLY) 8.2653
MEAN (COMP STAR 3 ONLY) 8.2736

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2772
COMP 2 ONLY 8.2763
COMP 3 ONLY 8.2781

ASSUMED COLOR TERM A2 = -0.0245
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 225028 = 0.351
HD 6 = 0.614

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.4863 & 6.8902 MEAN= 7.1883
FOR HD 225028 & 6 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
9	22 96	20348.829	1.8734	0.0043	-0.6114	0.0030	4	0.57	0.0186	9.0772
9	23 96	20349.801	1.8690	0.0053	-0.6084	0.0035	4	0.48	0.0191	9.0738
10	4 96	20360.789	1.8790	0.0028	-0.6120	0.0014	4	0.88	0.0180	9.0805
10	6 96	20362.779	1.8798	0.0041	-0.6084	0.0044	4	1.09	0.0169	9.0791
11	1 96	20388.712	1.9358	0.0050	-0.6106	0.0041	4	3.66	-0.0249	9.0794
MEANS		20362.2		0.0043	-0.6102	0.0033				9.0780
STD. DEV. FOR N=		5			0.0017					0.0026
STD. ERR. OF MEAN					0.0008					0.0012

MEAN (COMP STAR 2 ONLY) 9.0710
MEAN (COMP STAR 3 ONLY) 9.0850

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0937
COMP 2 ONLY 9.0932
COMP 3 ONLY 9.0943

ASSUMED COLOR TERM C2 = 0.9750 A2+C2-1 = -0.0495
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 225028 = 0.351
HD 6 = 0.614

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.2661 & 6.5282 MEAN= 6.8971
FOR HD 6464 & 7218 FROM FILE= satcompmt.sv

UT DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
10 25 97	20746.752	1.3140	0.0045	-0.7291	0.0019	4	1.71	0.0638	8.2683
10 31 97	20752.747	1.3204	0.0096	-0.7317	0.0031	4	2.34	0.0558	8.2642
11 18 97	20770.672	1.3741	0.0050	-0.7284	0.0042	4	4.02	0.0167	8.2723
12 13 97	20795.638	1.4388	0.0047	-0.7278	0.0029	2	5.57	-0.0645	8.2498
MEANS	20766.5		0.0059	-0.7292	0.0030				8.2636
STD. DEV. FOR N=	4			0.0017					0.0098
STD. ERR. OF MEAN				0.0009					0.0049

MEAN (COMP STAR 2 ONLY) 8.2680
MEAN (COMP STAR 3 ONLY) 8.2593

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 8.2725
COMP 2 ONLY 8.2725
COMP 3 ONLY 8.2725

ASSUMED COLOR TERM A2 = -0.0249
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 6464 = 0.618
HD 7218 = 0.271

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.8840 & 6.7992 MEAN= 7.3416
FOR HD 6464 & 7218 FROM FILE= satcompmt.sv

UT DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
10 25 97	20746.751	1.6926	0.0049	-1.0628	0.0055	4	1.71	0.0638	9.0887
10 31 97	20752.747	1.6965	0.0034	-1.0704	0.0035	4	2.34	0.0558	9.0812
11 18 97	20770.672	1.7456	0.0009	-1.0692	0.0014	4	4.02	0.0167	9.0822
12 13 97	20795.653	1.8304	0.0121	-1.0611	0.0149	2	5.57	-0.0645	9.0774
MEANS	20766.5		0.0053	-1.0659	0.0063				9.0824
STD. DEV. FOR N=	4			0.0046					0.0047
STD. ERR. OF MEAN				0.0023					0.0024

MEAN (COMP STAR 2 ONLY) 9.0919
MEAN (COMP STAR 3 ONLY) 9.0729

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 9.1006
COMP 2 ONLY 9.1012

ASSUMED COLOR TERM C2 = 0.9737 A2+C2-1 = -0.0512
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 6464 = 0.618
 HD 7218 = 0.271

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.0540 & 8.3166 MEAN= 8.1853
 FOR HD 11638 & 12290 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	18	98	21104.800	-0.0324	0.0048	0.2524	0.0055	4	0.69	0.1198	8.2700
10	19	98	21105.799	-0.0315	0.0061	0.2557	0.0044	4	0.59	0.1206	8.2721
10	28	98	21114.770	-0.0401	0.0037	0.2549	0.0056	4	0.60	0.1208	8.2637
11	18	98	21135.725	-0.0036	0.0061	0.2546	0.0023	4	2.82	0.0970	8.2677
11	21	98	21138.708	0.0036	0.0028	0.2522	0.0031	4	3.12	0.0910	8.2678
12	12	98	21159.640	0.0681	0.0034	0.2573	0.0027	4	4.86	0.0337	8.2681
12	13	98	21160.647	0.0739	0.0116	0.2505	0.0051	4	4.92	0.0304	8.2704
MEANS		21131.4		0.0055	0.2539	0.0041					8.2685
STD. DEV. FOR N=		7			0.0023						0.0027
STD. ERR. OF MEAN					0.0009						0.0010
										MEAN (COMP STAR 2 ONLY)	8.2642
										MEAN (COMP STAR 3 ONLY)	8.2729

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2756
 COMP 2 ONLY 8.2750
 COMP 3 ONLY 8.2761

ASSUMED COLOR TERM A2 = -0.0253
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 11638 = 0.374
 HD 12290 = 0.670

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.4276 & 8.9870 MEAN= 8.7073
 FOR HD 11638 & 12290 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	18	98	21104.801	0.2656	0.0026	0.5381	0.0022	4	0.69	0.1198	9.0890
10	19	98	21105.800	0.2672	0.0074	0.5410	0.0071	4	0.59	0.1206	9.0919
10	28	98	21114.770	0.2585	0.0031	0.5425	0.0035	4	0.60	0.1208	9.0834
11	18	98	21135.725	0.2890	0.0054	0.5434	0.0056	4	2.82	0.0970	9.0780
11	21	98	21138.709	0.3024	0.0029	0.5461	0.0036	4	3.12	0.0910	9.0839
12	12	98	21159.640	0.3656	0.0102	0.5530	0.0098	4	4.86	0.0337	9.0803
12	13	98	21160.648	0.3713	0.0046	0.5498	0.0059	4	4.92	0.0304	9.0824
MEANS		21131.4		0.0052	0.5448	0.0054					9.0841
STD. DEV. FOR N=		7			0.0052						0.0048
STD. ERR. OF MEAN					0.0020						0.0018

MEAN (COMP STAR 2 ONLY) 9.0768
MEAN (COMP STAR 3 ONLY) 9.0914

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0988
COMP 2 ONLY 9.0994
COMP 3 ONLY 9.0982

ASSUMED COLOR TERM C2 = 0.9725 A2+C2-1 = -0.0528
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 11638 = 0.374
HD 12290 = 0.670

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.6208 & 7.3783 MEAN= 7.4996
FOR HD 18010 & 18144 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	21	99	21472.850	0.6253	0.0089	-0.2350	0.0024	4	1.88	0.1544	8.2719
11	5	99	21487.834	0.6042	0.0017	-0.2326	0.0041	4	0.32	0.1659	8.2684
11	6	99	21488.803	0.6053	0.0026	-0.2366	0.0022	4	0.28	0.1659	8.2696
11	13	99	21495.796	0.6121	0.0051	-0.2380	0.0039	4	0.83	0.1643	8.2727
11	14	99	21496.784	0.6085	0.0053	-0.2324	0.0074	4	0.94	0.1640	8.2684
11	15	99	21497.791	0.6075	0.0035	-0.2329	0.0022	4	1.05	0.1632	8.2661
MEANS		21490.0		0.0045	-0.2346	0.0037					8.2695
STD. DEV. FOR N=		6			0.0023						0.0024
STD. ERR. OF MEAN					0.0010						0.0010

MEAN (COMP STAR 2 ONLY) 8.2735
MEAN (COMP STAR 3 ONLY) 8.2656

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2771
COMP 2 ONLY 8.2786
COMP 3 ONLY 8.2755

ASSUMED COLOR TERM A2 = -0.0256
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 18010 = 0.600
 HD 18144 = 0.412

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.2212 & 7.7900 MEAN= 8.0056
 FOR HD 18010 & 18144 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	21	99	21472.851	0.9414	0.0069	-0.4157	0.0031	4	1.88	0.1544	9.0912
11	5	99	21487.834	0.9141	0.0073	-0.4155	0.0020	4	0.32	0.1659	9.0839
11	6	99	21488.803	0.9116	0.0061	-0.4164	0.0068	4	0.28	0.1659	9.0816
11	13	99	21495.796	0.9233	0.0033	-0.4177	0.0030	4	0.83	0.1643	9.0887
11	14	99	21496.784	0.9190	0.0048	-0.4167	0.0038	4	0.94	0.1640	9.0835
11	15	99	21497.791	0.9256	0.0031	-0.4139	0.0028	4	1.05	0.1632	9.0887
MEANS		21490.0		0.0052	-0.4160	0.0036					9.0863
STD. DEV. FOR N=		6			0.0013						0.0038
STD. ERR. OF MEAN					0.0005						0.0015
										MEAN (COMP STAR 2 ONLY)	9.0939
										MEAN (COMP STAR 3 ONLY)	9.0787

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.1023
 COMP 2 ONLY 9.1047
 COMP 3 ONLY 9.0998

ASSUMED COLOR TERM C2 = 0.9712 A2+C2-1 = -0.0544
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 18010 = 0.600
 HD 18144 = 0.412

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.0540 & 8.6771 MEAN= 7.8655
 FOR HD 23052 & 23290 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
----	------	----------	-----	-----	------	-----	---	-----	------	--------

10	6	0	21823.926	0.2758	0.0034	1.6303	0.0037	4	4.60	0.1264	8.2498
10	7	0	21824.932	0.2747	0.0018	1.6222	0.0035	4	4.52	0.1297	8.2524
12	27	0	21905.688	0.2578	0.0073	1.6316	0.0125	2	4.06	0.1478	8.2554
1	26	1	21935.611	0.3603	0.0060	1.6187	0.0045	4	5.91	0.0449	8.2477
2	10	1	21950.606	0.4286	0.0011	1.6243	0.0060	4	6.21	-0.0145	8.2554

MEANS	21888.2		0.0039	1.6254	0.0060						8.2521
STD. DEV. FOR N=	5			0.0054							0.0034
STD. ERR. OF MEAN				0.0024							0.0015

MEAN (COMP STAR 2 ONLY)	8.2533
MEAN (COMP STAR 3 ONLY)	8.2510

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	8.2652
	COMP 2 ONLY	8.2644
	COMP 3 ONLY	8.2660

ASSUMED COLOR TERM A2 = -0.0260
 ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 23052	=	0.372
HD 23290	=	0.221

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.4259 & 8.8984 MEAN= 8.1622
 FOR HD 23052 & 23290 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
10	6	0	21823.927	0.8037	0.0029	1.4786	0.0015	4	4.60	0.1264	9.0674
10	7	0	21824.932	0.7981	0.0067	1.4727	0.0065	4	4.52	0.1297	9.0656
12	27	0	21905.704	0.7849	0.0109	1.4768	0.0057	2	4.06	0.1478	9.0730
1	26	1	21935.611	0.8897	0.0094	1.4686	0.0072	4	5.91	0.0449	9.0649
2	10	1	21950.605	0.9495	0.0045	1.4776	0.0022	4	6.21	-0.0145	9.0636

MEANS	21888.2		0.0069	1.4749	0.0046						9.0669
STD. DEV. FOR N=	5			0.0042							0.0037
STD. ERR. OF MEAN				0.0019							0.0016

MEAN (COMP STAR 2 ONLY)	9.0681
MEAN (COMP STAR 3 ONLY)	9.0657

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	9.0951
	COMP 2 ONLY	9.0920
	COMP 3 ONLY	9.0981

ASSUMED COLOR TERM C2 = 0.9700 A2+C2-1 = -0.0560
 ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 23052	=	0.372
HD 23290	=	0.221

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.3378 & 7.6818 MEAN= 7.5098
FOR HD 28033 & 28139 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET		
10	23	1	22205.924	0.5660	0.0090	0.3760	0.0013	2	4.39	0.1625	8.2212	
10	24	1	22206.923	0.5841	0.0058	0.3462	0.0031	4	4.31	0.1657	8.2428	
11	16	1	22229.866	0.5226	0.0071	0.3542	0.0164	4	2.02	0.2176	8.2421	
11	17	1	22230.826	0.5270	0.0038	0.3423	0.0023	4	1.91	0.2189	8.2483	
	1	12	2	22286.713	0.5720	0.0028	0.3464	0.0197	4	4.26	0.1683	8.2335
	1	14	2	22288.678	0.5855	0.0033	0.3459	0.0064	4	4.42	0.1623	8.2404
MEANS		22241.5		0.0053	0.3518	0.0082					8.2380	
STD. DEV. FOR N=		6			0.0125						0.0095	
STD. ERR. OF MEAN					0.0051						0.0039	

MEAN (COMP STAR 2 ONLY) 8.2420
MEAN (COMP STAR 3 ONLY) 8.2341

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 8.2507
COMP 2 ONLY 8.2548
COMP 3 ONLY 8.2466

ASSUMED COLOR TERM A2 = -0.0264
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 28033 = 0.312
HD 28139 = 0.325

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.6493 & 8.0070 MEAN= 7.8281
FOR HD 28033 & 28139 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET		
10	23	1	22205.927	1.0870	0.0013	0.3670	0.0070	2	4.39	0.1625	9.0540	
10	24	1	22206.924	1.0840	0.0066	0.3644	0.0026	4	4.31	0.1657	9.0545	
11	16	1	22229.866	1.0209	0.0088	0.3590	0.0113	4	2.02	0.2176	9.0557	
11	17	1	22230.826	1.0228	0.0013	0.3589	0.0046	4	1.91	0.2189	9.0596	
	1	12	2	22286.713	1.0837	0.0057	0.3583	0.0038	4	4.26	0.1683	9.0572

1 14 2 22288.678 1.0884 0.0015 0.3635 0.0036 4 4.42 0.1623 9.0550
 MEANS 22241.5 0.0042 0.3619 0.0055 9.0560
 STD. DEV. FOR N= 6 0.0036 0.0021
 STD. ERR. OF MEAN 0.0015 0.0008

MEAN (COMP STAR 2 ONLY) 9.0581
 MEAN (COMP STAR 3 ONLY) 9.0539

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0837
 COMP 2 ONLY 9.0862
 COMP 3 ONLY 9.0813

ASSUMED COLOR TERM C2 = 0.9688 A2+C2-1 = -0.0576
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 28033 = 0.312
 HD 28139 = 0.325

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.8004 & 8.0249 MEAN= 7.9127
 FOR HD 41544 & 41830 FROM FILE= satcompmt sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
1	8 3	22647.738	0.1094	0.0028	0.2267	0.0033	4	2.50	0.2258	8.2381
2	7 3	22677.665	0.1989	0.0048	0.2234	0.0078	4	5.17	0.1434	8.2348
2	10 3	22680.657	0.2094	0.0024	0.2326	0.0110	4	5.36	0.1327	8.2338
MEANS	22668.7		0.0033		0.2276	0.0074				8.2356
STD. DEV. FOR N=	3				0.0047					0.0022
STD. ERR. OF MEAN					0.0027					0.0013

MEAN (COMP STAR 2 ONLY) 8.2371
 MEAN (COMP STAR 3 ONLY) 8.2340

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2399
 COMP 2 ONLY 8.2392
 COMP 3 ONLY 8.2406

ASSUMED COLOR TERM A2 = -0.0271
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 41544 = 0.722
 HD 41830 = 0.560

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.5224 & 8.5848 MEAN= 8.5536
 FOR HD 41544 & 41830 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
1	8 3	22647.738	0.3000	0.0042	0.0692	0.0042	4	2.50	0.2258	9.0659	
2	7 3	22677.666	0.3957	0.0033	0.0682	0.0014	4	5.17	0.1434	9.0648	
2	10 3	22680.657	0.4034	0.0052	0.0678	0.0036	4	5.36	0.1327	9.0607	
MEANS		22668.7		0.0042	0.0684	0.0031				9.0638	
STD. DEV. FOR N=		3			0.0007					0.0027	
STD. ERR. OF MEAN					0.0004					0.0016	
										MEAN (COMP STAR 2 ONLY)	9.0668
										MEAN (COMP STAR 3 ONLY)	9.0608

COLOR-CORRECTED PLANET MAGNITUDES.....

	BOTH COMPS	9.0735
	COMP 2 ONLY	9.0716
	COMP 3 ONLY	9.0754

ASSUMED COLOR TERM C2 = 0.9663 A2+C2-1 = -0.0608
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 41544 = 0.722
 HD 41830 = 0.560

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.1175 & 8.2322 MEAN= 8.1748
 FOR HD 53638 & 53532 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
1	18 4	23022.770	-0.1709	0.0061	0.1126	0.0042	4	2.05	0.2330	8.2290	
2	11 4	23046.676	-0.1071	0.0032	0.1216	0.0031	4	4.42	0.1772	8.2277	
2	12 4	23047.720	-0.1026	0.0106	0.1182	0.0050	4	4.51	0.1740	8.2287	
3	7 4	23071.622	-0.0019	0.0081	0.1114	0.0020	4	5.95	0.0876	8.2373	
MEANS		23047.2		0.0070	0.1160	0.0036				8.2307	
STD. DEV. FOR N=		4			0.0048					0.0045	
STD. ERR. OF MEAN					0.0024					0.0022	
										MEAN (COMP STAR 2 ONLY)	8.2313
										MEAN (COMP STAR 3 ONLY)	8.2300

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2369

COMP 2 ONLY 8.2328
COMP 3 ONLY 8.2410

ASSUMED COLOR TERM A2 = -0.0275
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 53638 = 0.745
HD 53532 = 0.400

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.8626 & 8.6324 MEAN= 8.7475
FOR HD 53638 & 53532 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
1	18	4	23022.770	0.0751	0.0090	-0.2360	0.0083	4	2.05	0.2330	9.0445
2	11	4	23046.676	0.1458	0.0040	-0.2223	0.0027	4	4.42	0.1772	9.0466
2	12	4	23047.719	0.1589	0.0057	-0.2236	0.0126	4	4.51	0.1740	9.0561
3	7	4	23071.623	0.2382	0.0040	-0.2344	0.0095	4	5.95	0.0876	9.0412
MEANS		23047.2		0.0057	-0.2291	0.0083					9.0471
STD. DEV. FOR N=		4			0.0071						0.0064
STD. ERR. OF MEAN					0.0036						0.0032
										MEAN (COMP STAR 2 ONLY)	9.0477
										MEAN (COMP STAR 3 ONLY)	9.0465

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 9.0613
COMP 2 ONLY 9.0511
COMP 3 ONLY 9.0715

ASSUMED COLOR TERM C2 = 0.9650 A2+C2-1 = -0.0625
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 53638 = 0.745
HD 53532 = 0.400

PRINTOUT MADE ON Fri Feb 22 11:53:51 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.0227 & 9.2449 MEAN= 8.6338
FOR HD 67226 & 68848 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
----	------	----------	-----	-----	------	-----	---	-----	------	--------

12	12	4	23351.889	-0.5870	0.0089	1.2237	0.0106	4	3.63	0.1910	8.2237
12	19	4	23358.856	-0.6016	0.0059	1.2247	0.0056	4	2.93	0.2067	8.2274
12	20	4	23359.840	-0.5913	0.0082	1.2174	0.0103	4	2.83	0.2088	8.2403
3	16	5	23445.647	-0.4745	0.0078	1.2223	0.0044	4	5.72	0.0940	8.2310
4	1	5	23461.640	-0.4081	0.0077	1.2212	0.0053	4	6.25	0.0303	8.2316
4	2	5	23462.639	-0.4163	0.0054	1.2251	0.0076	4	6.27	0.0264	8.2195

MEANS	23406.8		0.0073	1.2224	0.0073						8.2289
STD. DEV. FOR N=	6			0.0029							0.0072
STD. ERR. OF MEAN				0.0012							0.0029

MEAN (COMP STAR 2 ONLY)	8.2290
MEAN (COMP STAR 3 ONLY)	8.2288

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	8.2346
	COMP 2 ONLY	8.2332
	COMP 3 ONLY	8.2360

ASSUMED COLOR TERM A2 = -0.0275
 ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 67226	=	0.649
HD 68848	=	0.540

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.6713 & 9.7845 MEAN= 9.2279
 FOR HD 67226 & 68848 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
12	12	4	23351.891	-0.3621	0.0075	1.1236	0.0106	4	3.63	0.1910	9.0372
12	19	4	23358.856	-0.3694	0.0089	1.1151	0.0109	4	2.93	0.2067	9.0493
12	20	4	23359.840	-0.3768	0.0099	1.1188	0.0036	4	2.83	0.2088	9.0446
3	16	5	23445.646	-0.2401	0.0081	1.1200	0.0051	4	5.72	0.0940	9.0509
4	1	5	23461.640	-0.1838	0.0093	1.1140	0.0066	4	6.25	0.0303	9.0407
4	2	5	23462.639	-0.1837	0.0075	1.1121	0.0058	4	6.27	0.0264	9.0368

MEANS	23406.8		0.0085	1.1173	0.0071						9.0433
STD. DEV. FOR N=	6			0.0043							0.0060
STD. ERR. OF MEAN				0.0018							0.0025

MEAN (COMP STAR 2 ONLY)	9.0453
MEAN (COMP STAR 3 ONLY)	9.0412

COLOR-CORRECTED PLANET MAGNITUDES.....	BOTH COMPS	9.0561
	COMP 2 ONLY	9.0547
	COMP 3 ONLY	9.0575

ASSUMED COLOR TERM C2 = 0.9650 A2+C2-1 = -0.0625
 ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 67226	=	0.649

HD 68848 = 0.540

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.0227 & 9.2449 MEAN= 8.6338
FOR HD 67226 & 68848 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
2	23	6	23789.739	-0.5521	0.0104	1.2104	0.0065	4	2.98	0.1772	8.2473
3	2	6	23796.691	-0.5311	0.0010	1.2162	0.0045	2	3.67	0.1604	8.2488
4	2	6	23827.650	-0.4190	0.0040	1.2164	0.0104	4	5.83	0.0565	8.2486
4	13	6	23838.654	-0.3843	0.0074	1.2206	0.0052	4	6.18	0.0125	8.2379
MEANS		23813.2		0.0057	1.2159	0.0067					8.2457
STD. DEV. FOR N=		4			0.0042						0.0052
STD. ERR. OF MEAN					0.0021						0.0026

MEAN (COMP STAR 2 ONLY) 8.2425
MEAN (COMP STAR 3 ONLY) 8.2488

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 8.2515
COMP 2 ONLY 8.2468
COMP 3 ONLY 8.2562

ASSUMED COLOR TERM A2 = -0.0282
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 67226 = 0.649
HD 68848 = 0.540

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.6713 & 9.7845 MEAN= 9.2279
FOR HD 67226 & 68848 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
2	23	6	23789.739	-0.3290	0.0103	1.1080	0.0091	4	2.98	0.1772	9.0600
3	2	6	23796.705	-0.3161	0.0070	1.1095	0.0007	2	3.67	0.1604	9.0524
4	2	6	23827.650	-0.1891	0.0039	1.1140	0.0064	4	5.83	0.0565	9.0639
4	13	6	23838.653	-0.1575	0.0073	1.1116	0.0081	4	6.18	0.0125	9.0495

MEANS 23813.2 0.0071 1.1108 0.0061 9.0565
 STD. DEV. FOR N= 4 0.0026 0.0066
 STD. ERR. OF MEAN 0.0013 0.0033

MEAN (COMP STAR 2 ONLY) 9.0552
 MEAN (COMP STAR 3 ONLY) 9.0577

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.0700
 COMP 2 ONLY 9.0652
 COMP 3 ONLY 9.0748

ASSUMED COLOR TERM C2 = 0.9626 A2+C2-1 = -0.0657
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 67226 = 0.649
 HD 68848 = 0.540

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 6.5195 & 7.5098 MEAN= 7.0146
 FOR HD 95216 & 94460 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
3	17	9	24907.776	1.2007	0.0043	0.9799	0.0090	4	0.99	0.0685	8.2800
3	24	9	24914.739	1.2213	0.0095	0.9821	0.0091	4	1.75	0.0613	8.2905
3	25	9	24915.744	1.2188	0.0042	0.9789	0.0021	4	1.86	0.0600	8.2863
3	31	9	24921.715	1.2338	0.0109	0.9899	0.0085	4	2.48	0.0506	8.2894
4	26	9	24947.699	1.3060	0.0026	0.9793	0.0046	4	4.76	-0.0171	8.2849

MEANS 24921.5 0.0063 0.9820 0.0067 8.2862
 STD. DEV. FOR N= 5 0.0046 0.0041
 STD. ERR. OF MEAN 0.0020 0.0018

MEAN (COMP STAR 2 ONLY) 8.2821
 MEAN (COMP STAR 3 ONLY) 8.2903

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.2978
 COMP 2 ONLY 8.2976
 COMP 3 ONLY 8.2979

ASSUMED COLOR TERM A2 = -0.0294
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 95216 = 0.270
 HD 94460 = 0.542

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 6.7898 & 8.0514 MEAN= 7.4206
 FOR HD 95216 & 94460 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
3	17	9	24907.777	1.6164	0.0044	1.2521	0.0073	4	0.99	0.0685	9.1002
3	24	9	24914.739	1.6321	0.0137	1.2493	0.0027	4	1.75	0.0613	9.1046
3	25	9	24915.744	1.6419	0.0050	1.2421	0.0016	4	1.86	0.0600	9.1125
3	31	9	24921.715	1.6567	0.0064	1.2442	0.0037	4	2.48	0.0506	9.1145
4	26	9	24947.699	1.7232	0.0033	1.2427	0.0056	4	4.76	-0.0171	9.1009
MEANS		24921.5		0.0066	1.2461	0.0042					9.1065
STD. DEV. FOR N=		5			0.0044						0.0066
STD. ERR. OF MEAN					0.0020						0.0030

MEAN (COMP STAR 2 ONLY) 9.0988
 MEAN (COMP STAR 3 ONLY) 9.1143

COLOR-CORRECTED PLANET MAGNITUDES.....
 BOTH COMPS 9.1343
 COMP 2 ONLY 9.1361
 COMP 3 ONLY 9.1325

ASSUMED COLOR TERM C2 = 0.9588 A2+C2-1 = -0.0705
 ASSUMED B-Y COLORS..... PLANET = 0.800
 HD 95216 = 0.270
 HD 94460 = 0.542

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN

MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 7.5045 & 8.4816 MEAN= 7.9931
 FOR HD 101443 & 101444 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
4	10	10	25296.749	0.3078	0.0074	0.9818	0.0068	4	2.13	0.0022	8.2947
5	4	10	25320.684	0.3631	0.0041	0.9674	0.0053	4	4.32	-0.0533	8.2860
5	6	10	25322.692	0.3769	0.0045	0.9713	0.0056	4	4.47	-0.0595	8.2931
5	7	10	25323.682	0.3709	0.0045	0.9763	0.0018	2	4.54	-0.0624	8.2838
5	12	10	25328.667	0.3953	0.0047	0.9691	0.0078	4	4.88	-0.0786	8.2907
6	5	10	25352.662	0.4847	0.0096	0.9719	0.0018	2	5.95	-0.1663	8.2883
6	6	10	25353.661	0.4787	0.0022	0.9716	0.0072	2	5.97	-0.1700	8.2784
MEANS		25328.4		0.0053	0.9728	0.0052					8.2879
STD. DEV. FOR N=		7			0.0048						0.0056
STD. ERR. OF MEAN					0.0018						0.0021

MEAN (COMP STAR 2 ONLY) 8.2857
MEAN (COMP STAR 3 ONLY) 8.2900

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 8.3011
COMP 2 ONLY 8.3011
COMP 3 ONLY 8.3011

ASSUMED COLOR TERM A2 = -0.0297
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 101443 = 0.282
HD 101444 = 0.428

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 7.7864 & 8.9101 MEAN= 8.3483
FOR HD 101443 & 101444 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
4	10 10	25296.750	0.7832	0.0030	1.1210	0.0133	3	2.13	0.0022	9.1221
5	4 10	25320.684	0.8430	0.0022	1.1126	0.0050	4	4.32	-0.0533	9.1146
5	6 10	25322.692	0.8504	0.0063	1.1150	0.0048	4	4.47	-0.0595	9.1151
5	7 10	25323.697	0.8453	0.0166	1.1347	0.0213	2	4.54	-0.0624	9.1066
5	12 10	25328.667	0.8751	0.0100	1.1195	0.0070	4	4.88	-0.0786	9.1184
6	5 10	25352.662	0.9599	0.0061	1.1058	0.0101	2	5.95	-0.1663	9.1097
6	6 10	25353.661	0.9541	0.0062	1.1307	0.0213	2	5.97	-0.1700	9.1001
MEANS	25328.4			0.0072	1.1199	0.0118				9.1124
STD. DEV. FOR N=	7				0.0101					0.0075
STD. ERR. OF MEAN					0.0038					0.0028

MEAN (COMP STAR 2 ONLY) 9.1105
MEAN (COMP STAR 3 ONLY) 9.1143

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 9.1445
COMP 2 ONLY 9.1479
COMP 3 ONLY 9.1411

ASSUMED COLOR TERM C2 = 0.9576 A2+C2-1 = -0.0721
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 101443 = 0.282
HD 101444 = 0.428

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.2720 & 7.9619 MEAN= 8.1169
FOR HD 108263 & 108474 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
2	9 11	25601.946	0.3362	0.0075	-0.3082	0.0088	2	4.93	-0.1322	8.3018
3	29 11	25649.780	0.2267	0.0023	-0.3038	0.0064	4	0.69	-0.0366	8.3044
4	21 11	25672.767	0.2356	0.0057	-0.3057	0.0048	4	1.89	-0.0485	8.2967
4	28 11	25679.695	0.2628	0.0116	-0.3037	0.0157	4	2.59	-0.0594	8.3102
4	30 11	25681.677	0.2525	0.0022	-0.3056	0.0067	4	2.79	-0.0634	8.2952
5	1 11	25682.677	0.2586	0.0108	-0.3066	0.0067	2	2.88	-0.0654	8.2989
5	7 11	25688.679	0.2708	0.0039	-0.3083	0.0056	4	3.43	-0.0787	8.2956
5	8 11	25689.699	0.2812	0.0032	-0.2973	0.0045	4	3.53	-0.0812	8.3032
MEANS		25668.4		0.0059	-0.3049	0.0074				8.3007
STD. DEV. FOR N=		8			0.0035					0.0052
STD. ERR. OF MEAN					0.0012					0.0018

MEAN (COMP STAR 2 ONLY) 8.3033
MEAN (COMP STAR 3 ONLY) 8.2981

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 8.3088
COMP 2 ONLY 8.3093
COMP 3 ONLY 8.3083

ASSUMED COLOR TERM A2 = -0.0301
ASSUMED B-Y COLORS.....
PLANET = 0.800
HD 108263 = 0.603
HD 108474 = 0.464

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.8748 & 8.4257 MEAN= 8.6502
FOR HD 108263 & 108474 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
2	9 11	25601.947	0.6557	0.0183	-0.4509	0.0079	2	4.93	-0.1322	9.1472
3	29 11	25649.781	0.5258	0.0124	-0.4372	0.0047	4	0.69	-0.0366	9.1357
4	21 11	25672.768	0.5501	0.0077	-0.4476	0.0067	4	1.89	-0.0485	9.1417
4	28 11	25679.696	0.5553	0.0078	-0.4344	0.0053	4	2.59	-0.0594	9.1321
4	30 11	25681.677	0.5667	0.0083	-0.4610	0.0226	4	2.79	-0.0634	9.1385
5	1 11	25682.694	0.5652	0.0011	-0.4424	0.0058	2	2.88	-0.0654	9.1345
5	7 11	25688.680	0.5919	0.0082	-0.4394	0.0079	4	3.43	-0.0787	9.1449
5	8 11	25689.699	0.5860	0.0077	-0.4386	0.0024	4	3.53	-0.0812	9.1360
MEANS		25668.4		0.0089	-0.4439	0.0079				9.1388
STD. DEV. FOR N=		8			0.0088					0.0053

STD. ERR. OF MEAN 0.0031 0.0019

MEAN (COMP STAR 2 ONLY) 9.1414
MEAN (COMP STAR 3 ONLY) 9.1362

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 9.1585
COMP 2 ONLY 9.1559
COMP 3 ONLY 9.1610

ASSUMED COLOR TERM C2 = 0.9564 A2+C2-1 = -0.0737
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 108263 = 0.603
HD 108474 = 0.464

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 8.2530 & 7.8256 MEAN= 8.0393
FOR HD 114823 & 115341 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
3	23	12	26009.879	0.3791	0.0052	-0.4315	0.0083	4	2.47	-0.1058	8.3030
4	21	12	26038.786	0.3601	0.0127	-0.4320	0.0043	4	0.67	-0.0883	8.3086
4	22	12	26039.776	0.3475	0.0101	-0.4309	0.0224	4	0.76	-0.0888	8.2951
4	23	12	26040.762	0.3533	0.0021	-0.4254	0.0017	4	0.86	-0.0892	8.3000
4	30	12	26047.742	0.3560	0.0089	-0.4288	0.0056	4	1.58	-0.0954	8.2937
5	24	12	26071.710	0.4120	0.0059	-0.4254	0.0052	4	3.83	-0.1419	8.2944
MEANS		26041.4		0.0075		-0.4290	0.0079				8.2991
STD. DEV. FOR N=		6				0.0030					0.0059
STD. ERR. OF MEAN						0.0012					0.0024

MEAN (COMP STAR 2 ONLY) 8.2983
MEAN (COMP STAR 3 ONLY) 8.2999

COLOR-CORRECTED PLANET MAGNITUDES..... BOTH COMPS 8.3120
COMP 2 ONLY 8.3100
COMP 3 ONLY 8.3140

ASSUMED COLOR TERM A2 = -0.0305
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 114823 = 0.418
HD 115341 = 0.337

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 8.6705 & 8.1626 MEAN= 8.4166
FOR HD 114823 & 115341 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
3	23	12	26009.882	0.8338	0.0103	-0.5090	0.0026	4	2.47	-0.1058	9.1312
4	21	12	26038.786	0.8057	0.0291	-0.5034	0.0111	4	0.67	-0.0883	9.1304
4	22	12	26039.777	0.8185	0.0116	-0.5016	0.0096	4	0.76	-0.0888	9.1422
4	23	12	26040.762	0.8035	0.0038	-0.5029	0.0050	4	0.86	-0.0892	9.1261
4	30	12	26047.743	0.8185	0.0084	-0.5023	0.0096	4	1.58	-0.0954	9.1311
5	24	12	26071.711	0.8711	0.0063	-0.5007	0.0017	4	3.83	-0.1419	9.1251
MEANS		26041.4		0.0116	-0.5033	0.0066					9.1310
STD. DEV. FOR N=		6			0.0029						0.0061
STD. ERR. OF MEAN					0.0012						0.0025

MEAN (COMP STAR 2 ONLY) 9.1333
MEAN (COMP STAR 3 ONLY) 9.1287

COLOR-CORRECTED PLANET MAGNITUDES.....
BOTH COMPS 9.1629
COMP 2 ONLY 9.1621
COMP 3 ONLY 9.1636

ASSUMED COLOR TERM C2 = 0.9551 A2+C2-1 = -0.0754
ASSUMED B-Y COLORS..... PLANET = 0.800
HD 114823 = 0.418
HD 115341 = 0.337

PRINTOUT MADE ON Fri Feb 22 11:53:52 2013

OBJECT NO. 1 = TITAN
MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.55 = Y

SOLAR PHASE COEFFICIENT= 0.0039

COMPARISON MAGS= 9.0650 & 9.5947 MEAN= 9.3299
FOR HD 121864 & 122288 FROM FILE= satcompmt.sv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET	
5	20	13	26432.739	-0.8815	0.0024	0.5282	0.0051	4	2.30	-0.1516	8.2878
5	21	13	26433.721	-0.8893	0.0132	0.5235	0.0140	4	2.39	-0.1533	8.2780
6	5	13	26448.700	-0.8346	0.0164	0.5253	0.0091	4	3.73	-0.1852	8.2955
6	10	13	26453.697	-0.8339	0.0215	0.5253	0.0077	4	4.12	-0.1988	8.2810
MEANS		26442.2		0.0134	0.5256	0.0090					8.2856
STD. DEV. FOR N=		4			0.0019						0.0078
STD. ERR. OF MEAN					0.0010						0.0039

MEAN (COMP STAR 2 ONLY) 8.2835
MEAN (COMP STAR 3 ONLY) 8.2876

COLOR-CORRECTED PLANET MAGNITUDES.....

BOTH COMPS	8.2992
COMP 2 ONLY	8.2971
COMP 3 ONLY	8.3013

ASSUMED COLOR TERM A2 = -0.0308

ASSUMED B-Y COLORS.....

PLANET	=	0.800
HD 121864	=	0.359
HD 122288	=	0.359

PRINTOUT MADE ON Tue Jun 11 16:11:24 2013

OBJECT NO. 1 = TITAN
 MAGNITUDES COMPUTED FOR LINEAR SOLAR PHASE FUNCTION

FILTER NO.47 = B

SOLAR PHASE COEFFICIENT= 0.0054

COMPARISON MAGS= 9.4242 & 9.9533 MEAN= 9.6888
 FOR HD 121864 & 122288 FROM FILE= satcompmt.csv

UT	DATE	JUL DATE	VAR	ERR	COMP	ERR	N	DEG	DIST	PLANET
5	20 13	26432.740	-0.3993	0.0061	0.5298	0.0100	4	2.30	-0.1516	9.1255
5	21 13	26433.720	-0.3877	0.0033	0.5254	0.0089	4	2.39	-0.1533	9.1349
6	5 13	26448.701	-0.3518	0.0041	0.5380	0.0138	4	3.73	-0.1852	9.1316
6	10 13	26453.695	-0.3333	0.0238	0.5450	0.0227	4	4.12	-0.1988	9.1344
MEANS		26442.2		0.0093	0.5346	0.0138				9.1316
STD. DEV. FOR N=		4			0.0087					0.0043
STD. ERR. OF MEAN					0.0044					0.0022

MEAN (COMP STAR 2 ONLY) 9.1343
 MEAN (COMP STAR 3 ONLY) 9.1288

COLOR-CORRECTED PLANET MAGNITUDES.....
 BOTH COMPS 9.1655
 COMP 2 ONLY 9.1682
 COMP 3 ONLY 9.1628

ASSUMED COLOR TERM C2 = 0.9539 A2+C2-1 = -0.0770
 ASSUMED B-Y COLORS.....
 PLANET = 0.800
 HD 121864 = 0.359
 HD 122288 = 0.359

PRINTOUT MADE ON Tue Jun 11 16:11:24 2013