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L. N. Berdnikov^{ab}, D. G. Turner^c

^a Sternberg Astronomical Institute, Moscow, Russia

^b Visiting astronomer, South African Astronomical Observatory,

^c Saint Mary's University, hali, Nova Scotia, Canada

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PHOTOELECTRIC OBSERVATIONS OF SOUTHERN CEPHEIDS IN 1997. II

L. N. BERDNIKOV^{1,2} and D. G. TURNER³

¹ *Sternberg Astronomical Institute, Universitetskij pr. 13, Moscow, 119899, Russia*

² *Visiting astronomer, South African Astronomical Observatory*

³ *Saint Mary's University, Halifax, Nova Scotia, B3H 3C3, Canada*

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In December 1997 and January 1998, 962 photoelectric BVI_c brightness measurements were made for 67 Cepheids using the SAAO 0.5-m reflector. Tables of observations, V light curves, and $B-V$, and $V-I_c$ colour curves are presented.

KEY WORDS Cepheids, photoelectric photometry

1 INTRODUCTION

This work continues our programme of photoelectric monitoring of southern hemisphere Cepheids, the main goals of which were described in our previous paper (Berdnikov and Turner, 1998).

2 OBSERVATIONS

The photoelectric observations were obtained in December 1997 and January 1998 (JD 2450808–17) with the 0.5-m reflector of the South African Astronomical Observatory (SAAO), equipped with a pulse-counting photoelectric photometer. A cooled unit with a Hamamatsu photomultiplier and BVI_c filters of the Kron–Cousins photometric system (Cousins, 1976) were employed.

A description of the observing techniques can be found in our previous paper (Berdnikov and Turner, 1998). Photometric standards from the E-regions (Menzies *et al.*, 1989) were used (stars Nos. E128, E146, E167, E201, E216, E227, E233, E302, E339, E394, E414, E485, E4107, E505, E534, E577). Observational errors are close to 0^m01 in all bands.

We have obtained 962 observations for 67 Cepheids, which are given in Table 1 and plotted in Figures 1–7. The first column of Table 1 gives the heliocentric times

of the observations; the third through fifth columns give the V magnitudes and the $B - V$, and $V - I_c$ colours, respectively. The phases of observations, which are given in the second column of the table and which we used to construct the light curves in Figures 1-7, were calculated with the elements from GCVS-IV (Kholopov *et al.*, 1985a,b; 1987).

Acknowledgements

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Menzies, J. W., Banfield, R. M., Cousins, A. W. J., and Laing, J. D. (1989) *South African Astron. Obs. Circular*, No. 13, 1.

Appendix A

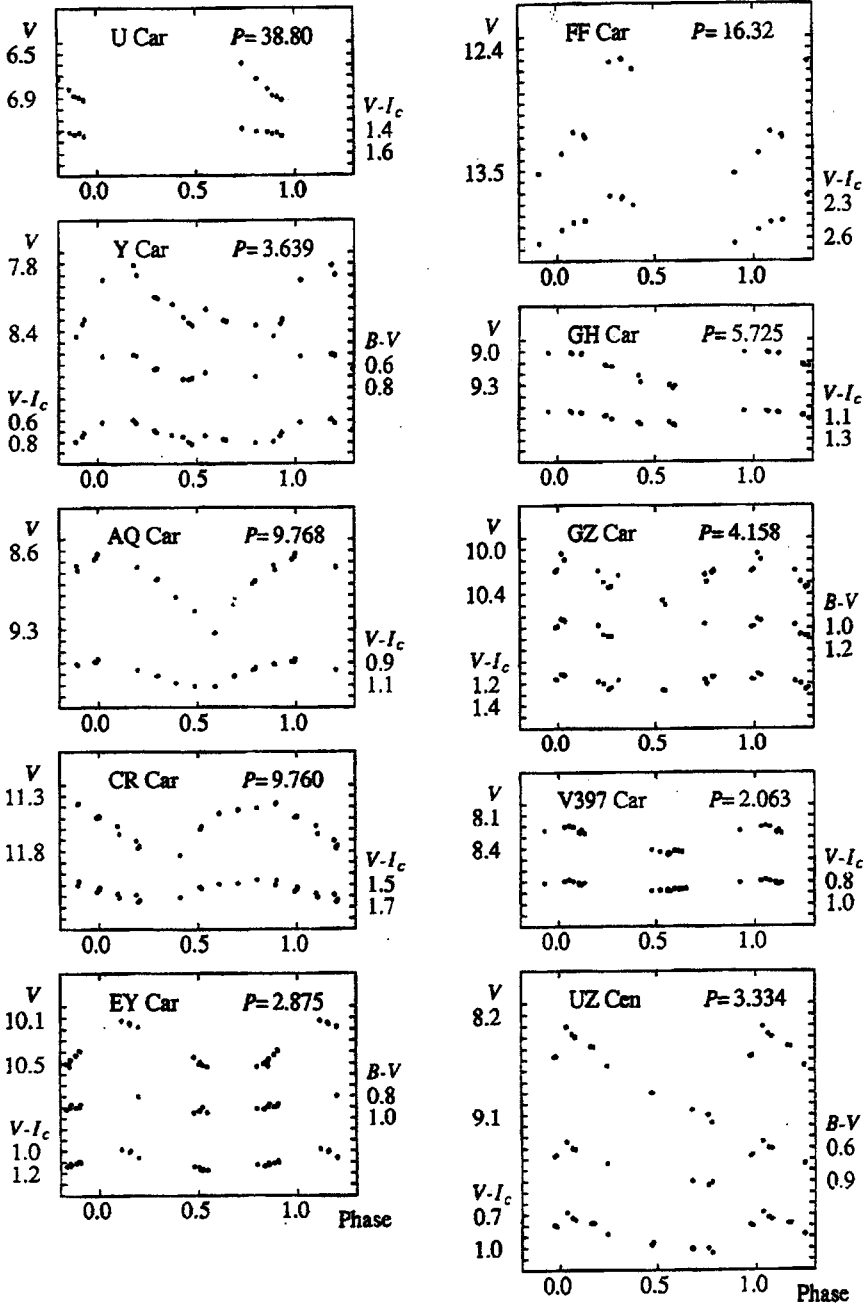


Figure 1 The light and colour curves for U Car, Y Car, AQ Car, CR Car, EY Car, FF Car, GH Car, GZ Car, V397 Car, and UZ Cen.

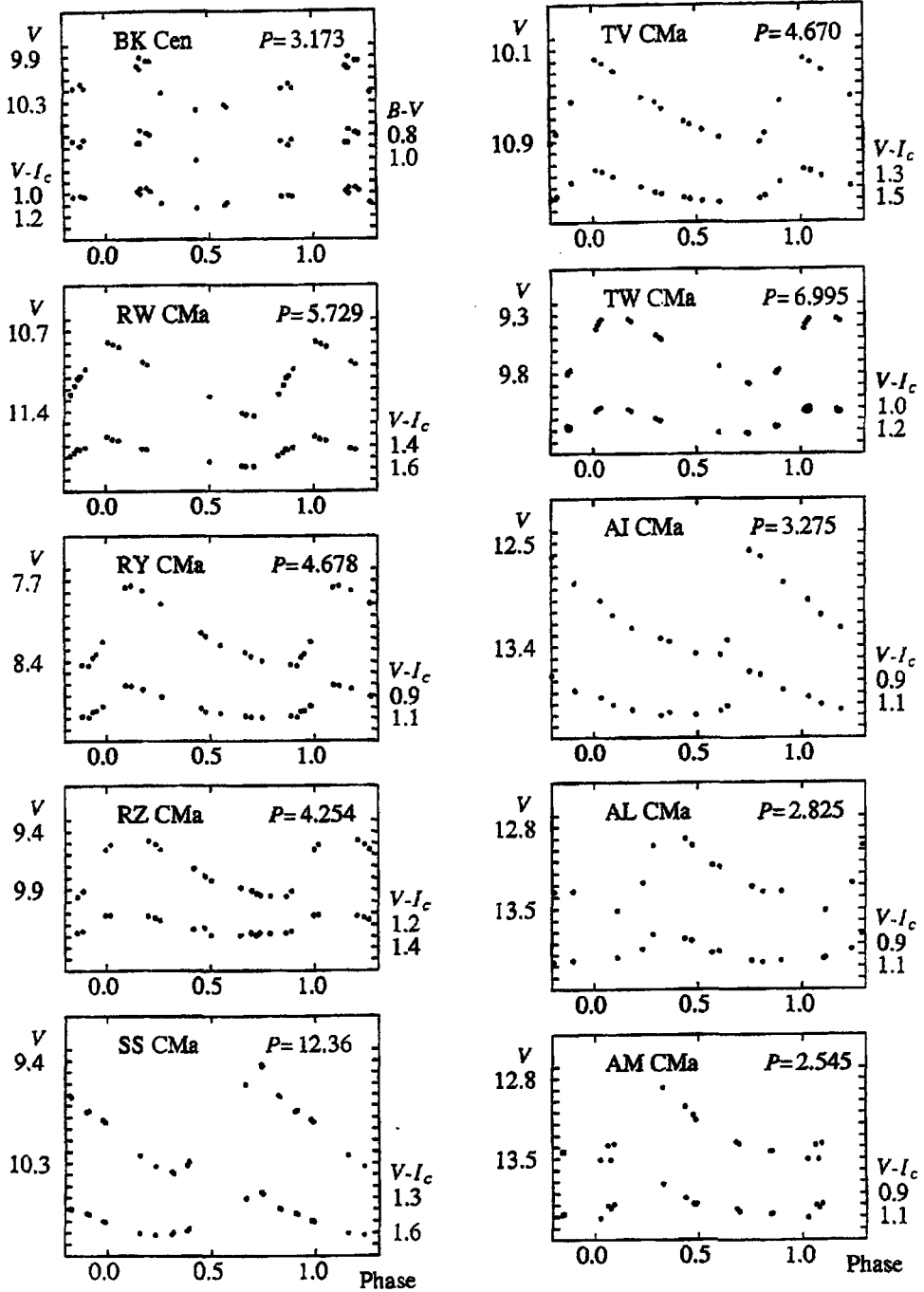


Figure 2 The light and colour curves for BK Cen, RW CMa, RY CMa, RZ CMa, SS CMa, TV CMa, TW CMa, AI CMa, AL CMa, and AM CMa.

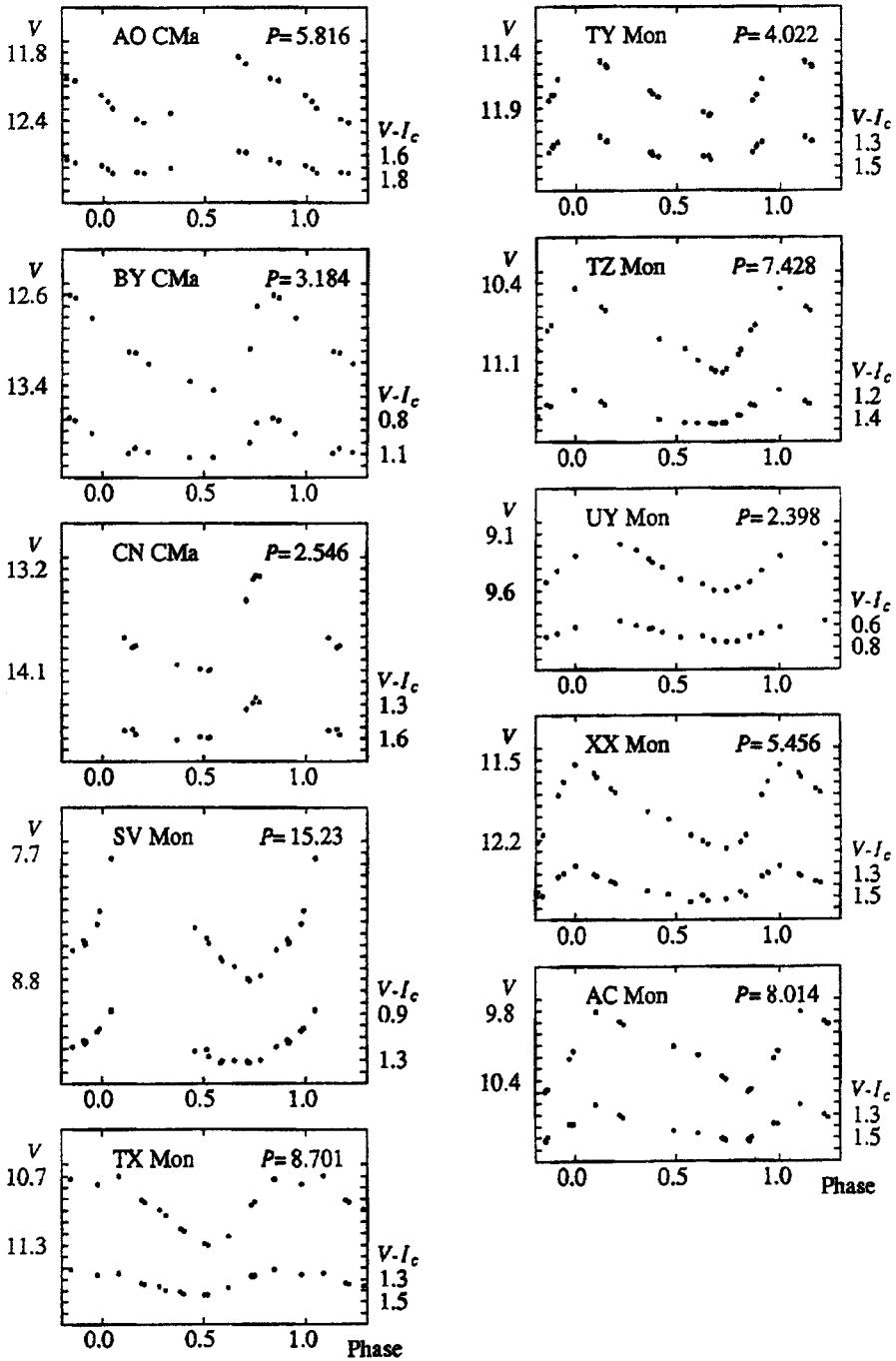


Figure 3 The light and colour curves for AO CMa, BY CMa, CN CMa, SV Mon, TX Mon, TY Mon, TZ Mon, UY Mon, XX Mon, and AC Mon.

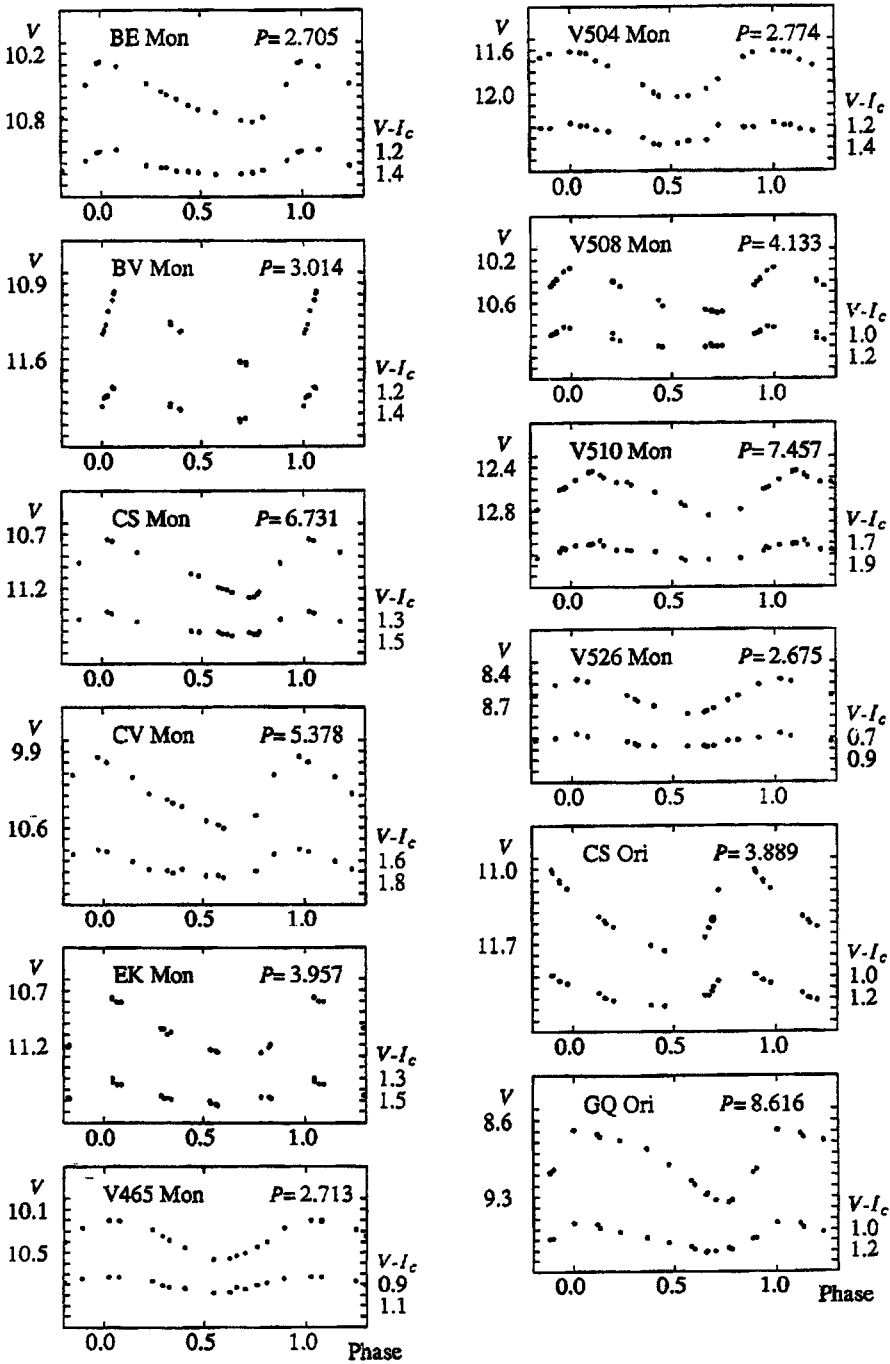


Figure 4 The light and colour curves for BE Mon, BV Mon, CS Mon, CV Mon, EK Mon, V465 Mon, V504 Mon, V508 Mon, V510 Mon, V526 Mon, CS Ori, and GQ Ori.

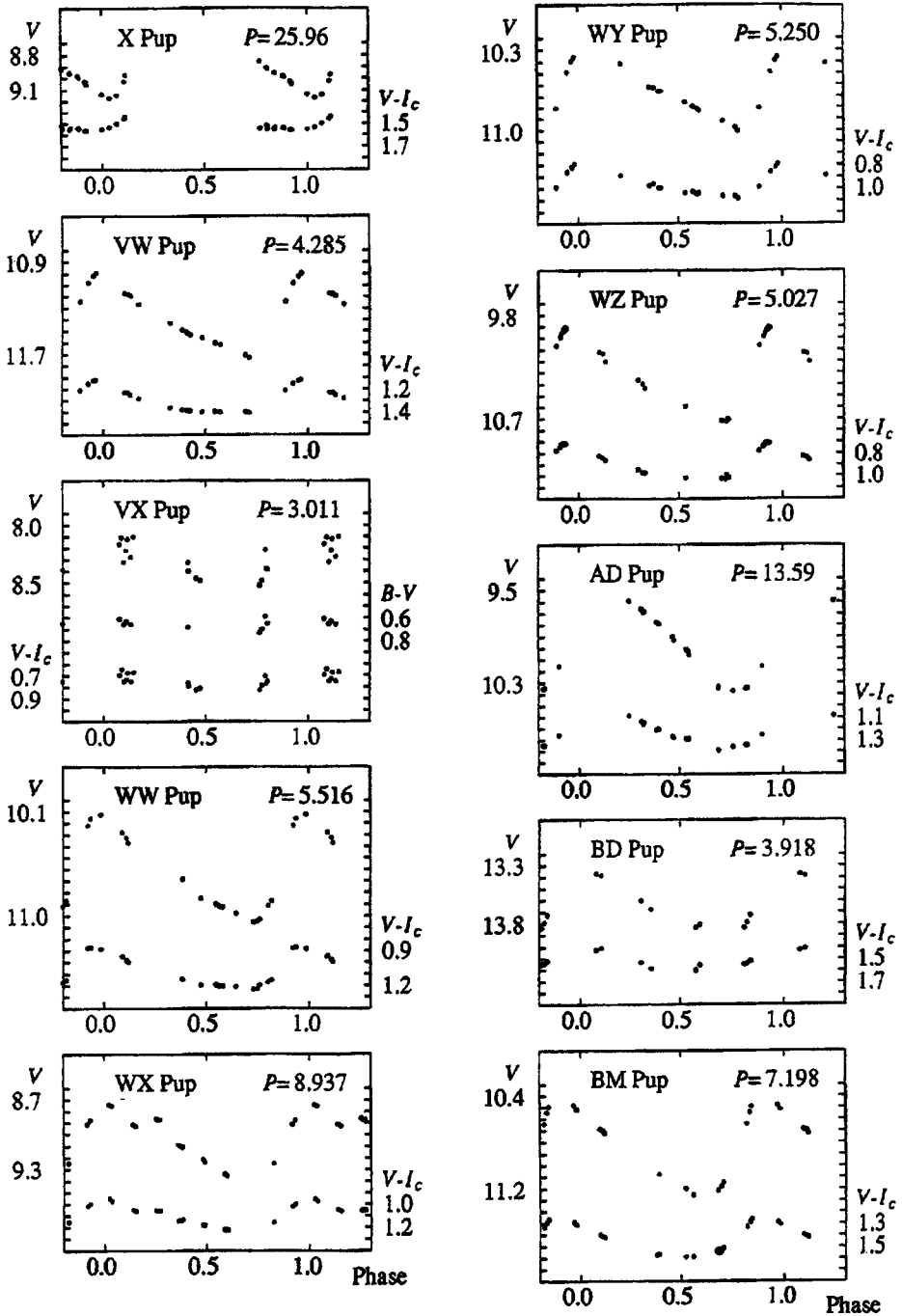


Figure 5 The light and colour curves for X Pup, VW Pup, VX Pup, WW Pup, WX Pup, WY Pup, WZ Pup, AD Pup, BD Pup, and BM Pup.

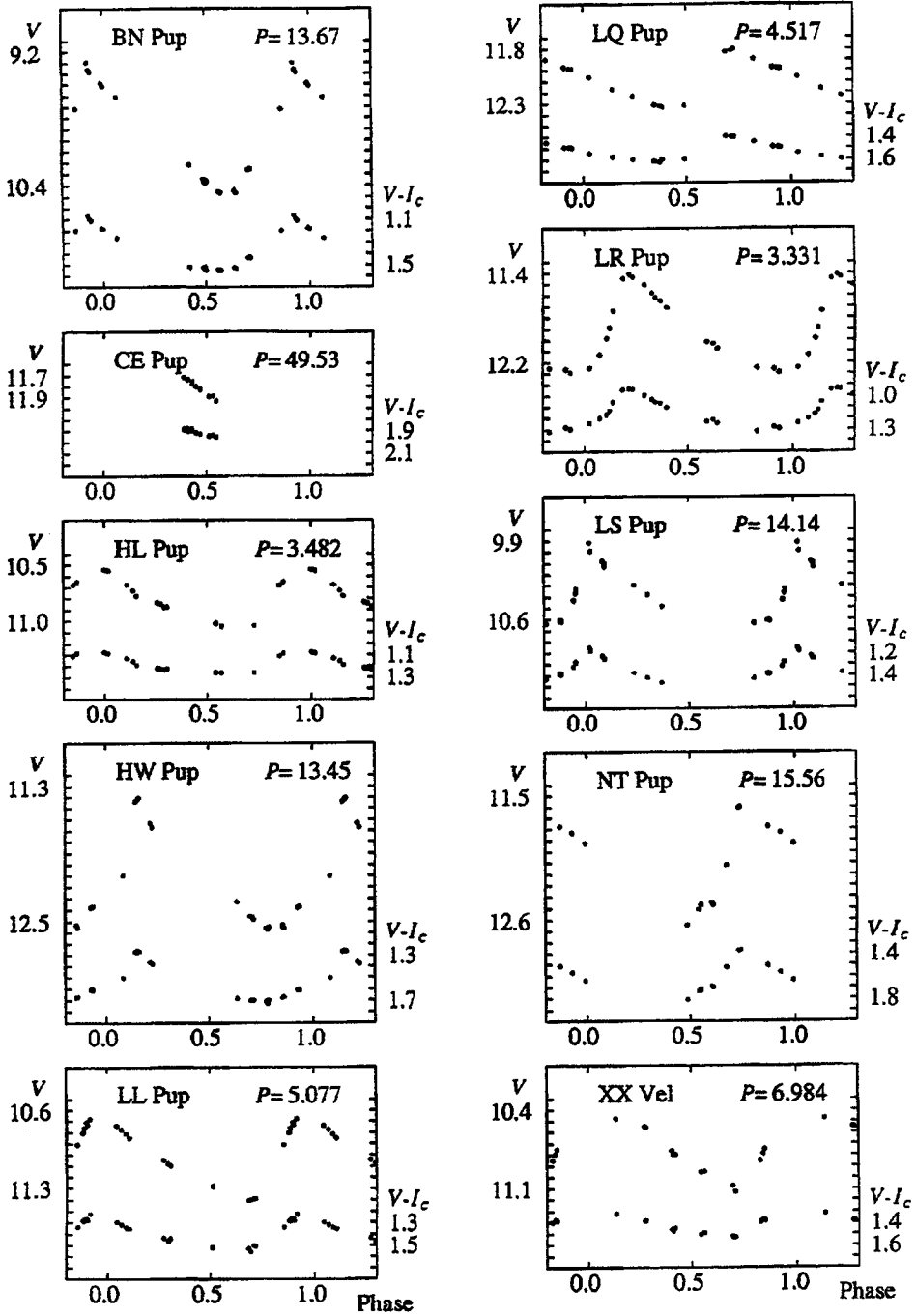


Figure 6 The light and colour curves for BN Pup, CE Pup, HL Pup, HW Pup, LL Pup, LQ Pup, LR Pup, LS Pup, NT Pup, and XX Vel.

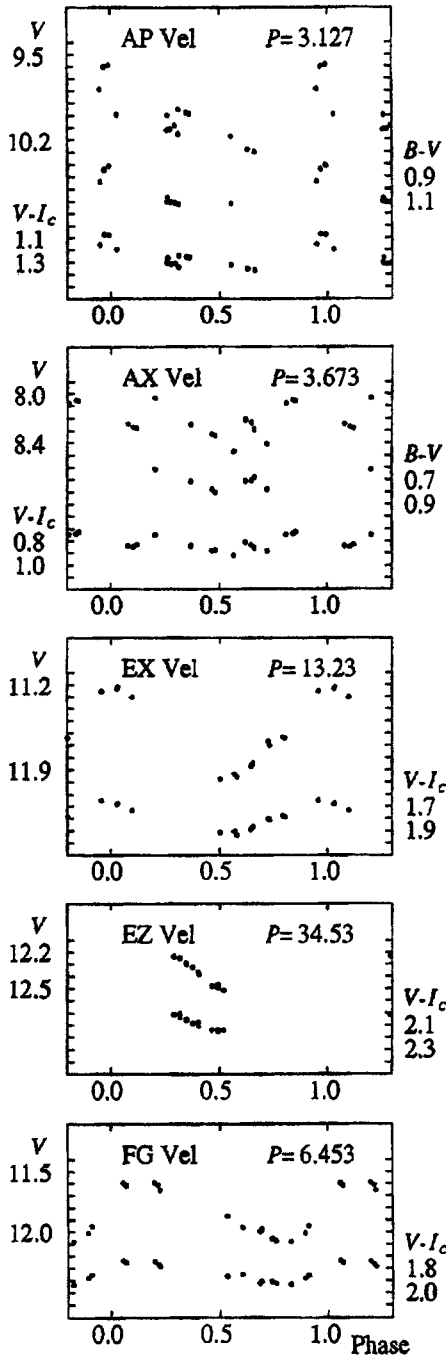


Figure 7 The light and colour curves for AP Vel, AX Vel, EX Vel, EZ Vel, and FG Vel.

Appendix B

Table 1.

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
U Car									
809.5102	.733	6.593	-	1.382	815.5515	.889	6.881	-	1.435
812.4258	.808	6.730	-	1.409	816.4655	.912	6.899	-	1.420
814.5781	.863	6.821	-	1.413	817.3816	.936	6.922	-	1.448
Y Car									
808.5741	.379	8.148	-	.732	812.4164	.435	8.263	.718	.750
809.5023	.634	8.291	-	.775	812.5175	.462	8.311	.721	.797
809.5596	.650	8.304	-	.777	812.5743	.478	8.340	.715	.819
810.4388	.891	8.432	-	.792	814.5696	.026	7.933	.519	.618
810.5546	.923	8.324	-	.742	815.5363	.292	8.083	.632	.688
810.5889	.933	8.285	-	.713	815.5828	.305	8.091	.626	.709
811.5029	.184	7.803	.501	.592	816.4571	.545	8.192	.663	.738
811.5699	.202	7.890	.513	.625	817.3844	.800	8.337	.700	.809
AQ Car									
808.5729	.590	9.324	-	1.109	812.4153	.983	8.671	-	.887
809.5014	.685	9.076	-	1.017	812.5166	.993	8.652	-	.886
809.5587	.691	9.021	-	1.011	812.5734	.999	8.625	-	.863
810.4378	.780	8.891	-	.963	814.5686	.203	8.741	-	.962
810.5536	.792	8.867	-	.952	815.5352	.302	8.851	-	1.017
810.5879	.796	8.868	-	.937	815.5819	.307	8.848	-	1.013
811.5018	.889	8.726	-	.908	816.4564	.397	9.008	-	1.076
811.5690	.896	8.766	-	.913	817.3833	.491	9.135	-	1.110
CR Car									
808.5754	.799	11.415	-	1.464	812.4175	.192	11.715	-	1.594
809.5032	.894	11.377	-	1.508	812.5184	.203	11.776	-	1.657
809.5603	.900	11.367	-	1.467	812.5753	.209	11.759	-	1.641
810.4396	.990	11.499	-	1.566	814.5710	.413	11.840	-	1.618
810.5554	.002	11.484	-	1.550	815.5373	.512	11.604	-	1.528
810.5902	.005	11.493	-	1.529	815.5839	.517	11.583	-	1.536
811.5041	.099	11.575	-	1.580	816.4580	.606	11.458	-	1.496
811.5711	.106	11.645	-	1.617	817.3856	.701	11.427	-	1.493
EY Car									
810.4508	.116	10.119	-	.989	812.5697	.852	10.464	.898	1.113
810.5582	.153	10.140	-	1.015	812.5816	.856	10.458	.867	1.129
810.5798	.160	10.150	-	1.005	814.5642	.546	10.526	.948	1.177
811.4972	.479	10.439	.948	1.143	815.4461	.852	10.479	.895	1.135
811.5647	.503	10.501	.932	1.154	815.5302	.882	10.419	.897	1.110
811.5866	.510	10.486	.928	1.173	815.5779	.898	10.377	.891	1.094
812.4113	.797	10.526	.913	1.125	815.5939	.904	10.384	.866	1.107
812.5132	.833	10.499	.917	1.144	816.4531	.203	10.172	.796	1.062
812.5684	.852	10.521	.900	1.127	817.3788	.524	10.515	.900	1.171
FF Car									
808.5813	.908	13.523	-	2.644	814.5740	.275	12.517	-	2.225

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
810.5435	.028	13.343	-	2.523	815.5402	.334	12.489	-	2.245
811.5069	.087	13.150	-	2.458	815.5881	.337	12.498	-	2.233
812.4206	.143	13.183	-	2.441	816.4606	.390	12.581	-	2.304
812.5242	.149	13.201	-	2.444					
GH Car									
809.5127	.068	9.014	-	1.038	812.5261	.594	9.326	-	1.165
809.5643	.077	9.023	-	1.048	812.5773	.603	9.305	-	1.167
810.5480	.249	9.121	-	1.080	814.5789	.953	9.011	-	1.039
810.5811	.255	9.130	-	1.078	815.5523	.123	9.030	-	1.052
811.5151	.418	9.219	-	1.142	815.5894	.130	9.025	-	1.056
811.5740	.428	9.272	-	1.158	816.4663	.283	9.139	-	1.114
812.4270	.577	9.299	-	1.141					
GZ Car									
808.5632	.311	10.233	-	1.175	812.4138	.237	10.294	1.064	1.203
809.5002	.537	10.453	-	1.265	812.5158	.262	10.341	1.077	1.260
809.5578	.550	10.495	-	1.263	812.5725	.275	10.333	1.077	1.239
810.4365	.762	10.294	-	1.205	814.5671	.755	10.229	.969	1.170
810.5529	.790	10.208	-	1.142	815.5331	.987	10.200	.997	1.164
810.5868	.798	10.195	-	1.144	815.5804	.998	10.180	.985	1.170
811.5003	.017	10.036	.924	1.117	816.4555	.209	10.193	.975	1.183
811.5674	.034	10.094	.935	1.130					
V397 Car									
808.5610	.654	-	-	.856	812.4125	.520	8.423	-	.872
809.4955	.106	8.248	-	.805	812.5146	.569	8.437	-	.885
809.5563	.136	8.256	-	.809	812.5712	.597	8.412	-	.865
810.4346	.561	8.431	-	.869	814.5655	.563	8.451	-	.884
810.5516	.618	8.420	-	.869	815.5316	.032	8.198	-	.790
810.5856	.635	8.424	-	.865	815.5790	.055	8.186	-	.777
811.4988	.077	8.200	-	.792	816.4542	.479	8.405	-	.880
811.5661	.110	8.255	-	.824	817.3806	.928	8.231	-	.809
811.5886	.121	8.229	.691	.823					
UZ Cen									
809.5187	.164	8.470	-	.779	812.5267	.066	8.364	.599	.727
809.5650	.178	8.480	-	.779	812.5778	.082	8.388	.601	.742
810.5485	.473	8.892	-	.973	814.5794	.682	9.047	.893	1.008
810.5818	.483	8.898	-	.955	815.5533	.974	8.560	.666	.791
811.5165	.763	9.097	.926	1.003	815.5900	.985	8.556	.653	.805
811.5746	.781	9.165	.901	1.044	816.4669	.248	8.646	.732	.876
812.4278	.037	8.297	.538	.679					
BK Cen									
809.5693	.270	10.215	-	1.088	812.5278	.202	9.936	.775	.957
810.5493	.579	10.323	-	1.106	812.5796	.218	9.936	.786	.982
810.5828	.589	10.341	-	1.085	814.5804	.849	10.175	.843	1.034
811.5177	.884	10.137	.883	1.024	815.5544	.156	9.984	.861	.989
811.5759	.902	10.176	.832	1.035	815.5909	.167	10.005	.863	1.006
812.4289	.171	9.904	.748	.959	816.4683	.444	10.369	1.007	1.133

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
RW CMa									
808.4714	.501	11.260	-	1.543	810.4978	.854	11.168	-	1.464
809.3667	.657	11.414	-	1.582	811.3897	.010	10.793	-	1.322
809.4773	.676	11.429	-	1.586	811.5317	.035	10.815	-	1.349
810.3687	.832	11.244	-	1.492	812.3477	.177	10.968	-	1.430
812.4723	.199	10.991	-	1.436	816.3723	.880	11.085	-	1.438
815.4240	.714	11.437	-	1.589	816.5128	.904	11.027	-	1.418
816.3008	.867	11.109	-	1.434	817.4197	.062	10.836	-	1.356
RY CMa									
808.4733	.265	7.892	-	.906	812.4737	.120	7.738	-	.812
809.3689	.456	8.140	-	1.008	814.4945	.552	8.250	-	1.051
809.4794	.480	8.174	-	1.037	815.4254	.751	8.385	-	1.093
810.3704	.670	8.316	-	1.077	816.3033	.939	8.360	-	1.038
810.4992	.698	8.354	-	1.087	816.3738	.954	8.326	-	1.029
811.3915	.889	8.423	-	1.076	816.5139	.984	8.220	-	.990
811.5337	.919	8.431	-	1.085	817.4210	.178	7.775	-	.844
812.3493	.093	7.754	-	.807					
RZ CMa									
808.4918	.788	9.959	-	1.280	812.4764	.724	9.940	-	1.291
809.3933	1.000	9.564	-	1.125	812.5415	.740	9.954	-	1.273
809.4834	.021	9.516	-	1.117	814.5098	.202	9.483	-	1.126
810.3906	.234	9.516	-	1.144	815.4410	.421	9.723	-	1.240
810.5028	.261	9.562	-	1.165	816.4001	.647	9.886	-	1.292
811.4092	.474	9.786	-	1.230	817.3239	.864	9.962	-	1.273
811.5369	.504	9.829	-	1.294	817.4381	.891	9.918	-	1.256
812.3693	.699	9.912	-	1.272					
SS CMa									
808.4839	.669	9.613	-	1.310	812.4736	.992	9.944	-	1.505
809.3824	.742	9.433	-	1.254	814.5041	.156	10.234	-	1.604
809.4796	.750	9.453	-	1.269	815.4346	.231	10.325	-	1.619
810.3821	.823	9.708	-	1.395	816.3935	.309	10.370	-	1.612
810.4994	.832	9.724	-	1.398	816.5224	.319	10.386	-	1.591
811.4034	.905	9.852	-	1.431	817.3183	.384	10.316	-	1.583
811.5338	.916	9.841	-	1.442	817.4295	.393	10.286	-	1.563
812.3632	.983	9.922	-	1.499					
TV CMa									
808.4596	.614	10.864	-	1.527	812.4716	.473	10.749	-	1.500
809.3573	.806	10.903	-	1.494	814.4842	.904	10.545	-	1.352
809.4761	.832	10.829	-	1.475	815.4195	.104	10.280	-	1.301
810.3497	.019	10.175	-	1.244	816.3672	.307	10.549	-	1.439
810.4970	.050	10.207	-	1.258	816.5061	.337	10.602	-	1.454
811.3802	.240	10.507	-	1.392	817.4140	.532	10.794	-	1.512
812.3425	.446	10.716	-	1.483					
TW CMa									
808.4928	.750	9.897	-	1.231	812.3704	.305	9.471	-	1.099
809.3946	.879	9.806	-	1.165	812.4777	.320	9.500	-	1.110

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
809.4843	.892	9.778	-	1.166	812.5426	.329	9.512	-	1.117
810.3916	.022	9.381	-	1.012	814.5108	.611	9.750	-	1.220
810.5038	.038	9.339	-	.999	815.4421	.744	9.885	-	1.227
811.4103	.167	9.340	-	1.019	816.4011	.881	9.788	-	1.176
811.5380	.186	9.356	-	1.032	817.3252	.013	9.423	-	1.035
817.4393	.029	9.360	-	1.004					
AI CMa									
808.4742	.913	12.844	-	.977	815.4259	.036	12.994	-	1.039
809.3700	.187	13.234	-	1.147	816.3744	.325	13.324	-	1.198
810.3715	.493	13.454	-	1.194	816.5144	.368	13.347	-	1.174
811.3926	.804	12.615	-	.848	817.3161	.613	13.463	-	1.160
812.3507	.097	13.117	-	1.102	817.4216	.645	13.338	-	1.118
814.4951	.752	12.561	-	.817					
AL CMa									
808.4763	.441	12.890	-	.852	814.4975	.572	13.125	-	.976
809.3741	.759	13.301	-	1.046	815.4286	.902	13.341	-	1.049
810.3744	.113	13.508	-	1.024	816.3775	.237	13.271	-	.950
811.3958	.474	12.950	-	.872	816.5165	.287	12.953	-	.819
812.3539	.813	13.349	-	1.062	817.4239	.608	13.136	-	.969
AM CMa									
808.4803	.332	12.873	-	.820	815.3393	.026	13.504	-	1.108
809.3784	.685	13.352	-	1.035	815.4316	.063	13.379	-	1.002
810.3779	.077	13.504	-	1.021	815.5070	.092	13.363	-	.992
811.3988	.478	13.117	-	.986	816.3901	.439	13.043	-	.937
812.3570	.855	13.430	-	1.073	816.5194	.490	13.160	-	.986
814.5002	.697	13.366	-	1.059	817.4262	.846	13.432	-	1.076
AO CMa									
808.4821	.669	11.840	-	1.566	814.5027	.704	11.903	-	1.577
809.3809	.824	12.031	-	1.638	815.4330	.864	12.054	-	1.661
810.3804	.996	12.175	-	1.687	816.3925	.029	12.234	-	1.717
811.4017	.171	12.389	-	1.747	816.5211	.051	12.294	-	1.753
812.3618	.336	12.335	-	1.706	817.4282	.207	12.417	-	1.751
BY CMa									
808.4853	.948	12.809	-	.930	814.5052	.839	12.603	-	.788
809.3837	.230	13.212	-	1.087	815.4361	.131	13.105	-	1.099
810.3846	.545	13.439	-	1.134	816.3947	.432	13.362	-	1.133
811.4050	.865	12.628	-	.811	817.3198	.723	13.077	-	1.007
812.3642	.166	13.115	-	1.053	817.4305	.757	12.704	-	.833
CN CMa									
810.3657	.755	13.255	-	1.239	815.5038	.773	13.267	-	1.279
811.3829	.155	13.892	-	1.520	816.3694	.113	13.805	-	1.528
812.3447	.532	14.092	-	1.588	816.5101	.168	13.878	-	1.562
814.4868	.374	14.048	-	1.610	817.3125	.483	14.089	-	1.581
815.3349	.707	13.476	-	1.342	817.4168	.524	14.101	-	1.594
815.4212	.741	13.290	-	1.281					

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
SV Mon									
808.4024	.459	8.349	-	1.223	811.3389	.651	8.682	-	1.301
809.3176	.519	8.439	-	1.207	812.3087	.715	8.791	-	1.314
809.4524	.528	8.482	-	1.266	812.4507	.724	8.809	-	1.324
810.3083	.584	8.609	-	1.323	813.3023	.780	8.769	-	1.299
810.4674	.594	8.631	-	1.304	814.4609	.856	8.536	-	1.185
815.3066	.912	8.453	-	1.127	816.4874	.989	8.207	-	1.025
815.3933	.918	8.483	-	1.151	817.3283	.045	7.752	-	.873
815.4945	.924	8.475	-	1.138	817.3671	.047	7.745	-	.861
816.3375	.980	8.317	-	1.046					
TX Mon									
808.4226	.284	10.998	-	1.367	812.4598	.748	10.928	-	1.273
809.3321	.388	11.163	-	1.414	813.3200	.846	10.726	-	1.218
809.4633	.403	11.184	-	1.436	814.4695	.979	10.774	-	1.265
810.3306	.503	11.291	-	1.445	815.4040	.086	10.703	-	1.251
810.4772	.520	11.304	-	1.445	816.3483	.194	10.912	-	1.336
811.3602	.621	11.228	-	1.376	816.4956	.211	10.932	-	1.349
812.3263	.732	10.958	-	1.271	817.3985	.315	11.046	-	1.403
TY Mon									
808.4311	.155	11.518	-	1.290	813.3251	.372	11.748	-	1.385
809.3406	.381	11.772	-	1.382	814.4739	.657	11.968	-	1.415
809.4672	.413	11.803	-	1.416	815.3232	.869	11.833	-	1.384
810.3362	.629	11.931	-	1.418	815.4085	.890	11.780	-	1.322
810.4811	.665	11.950	-	1.445	815.5010	.913	11.648	-	1.295
811.3645	.884	11.785	-	1.338	816.3528	.124	11.481	-	1.251
812.3308	.125	11.490	-	1.243	816.5001	.161	11.537	-	1.288
812.4637	.158	11.542	-	1.283	817.4032	.386	11.779	-	1.408
TZ Mon									
808.4349	.602	11.085	-	1.439	812.4656	.144	10.643	-	1.269
809.3447	.724	11.197	-	1.437	814.4773	.415	10.895	-	1.402
809.4692	.741	11.164	-	1.432	815.4112	.541	10.984	-	1.431
810.3394	.858	10.820	-	1.274	816.3559	.668	11.155	-	1.439
810.4835	.878	10.777	-	1.282	816.5024	.688	11.181	-	1.443
811.3689	.997	10.445	-	1.144	817.3344	.800	11.032	-	1.366
812.3337	.127	10.610	-	1.245	817.4059	.810	10.993	-	1.371
UY Mon									
808.4376	.005	9.293	-	.620	812.4669	.685	9.597	-	.740
809.3467	.384	9.348	-	.626	814.4791	.524	9.502	-	.706
809.4710	.436	9.393	-	.663	815.4128	.913	9.425	-	.675
810.3414	.799	9.572	-	.742	816.3584	.308	9.238	-	.602
810.4847	.858	9.523	-	.704	816.5036	.368	9.319	-	.632
811.3707	.228	9.190	-	.561	817.4078	.745	9.600	-	.747
812.3353	.630	9.544	-	.696					
XX Mon									
808.4268	.463	12.014	-	1.480	813.3215	.360	11.947	-	1.449

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
809.3342	.629	12.202	-	1.486	814.4708	.571	12.151	-	1.543
809.4643	.653	12.231	-	1.540	815.4052	.742	12.268	-	1.524
810.3319	.812	12.214	-	1.458	816.3493	.915	11.802	-	1.324
810.4782	.839	12.155	-	1.492	816.4970	.942	11.687	-	1.293
811.3616	.001	11.539	-	1.226	817.3322	.095	11.615	-	1.303
812.3275	.178	11.746	-	1.362	817.3997	.107	11.645	-	1.316
812.4610	.202	11.780	-	1.376					
AC Mon									
808.4416	.738	10.378	-	1.514	812.4671	.240	9.914	-	1.321
809.3472	.851	10.491	-	1.517	814.4794	.491	10.105	-	1.433
809.4713	.866	10.471	-	1.492	815.4131	.607	10.178	-	1.458
810.3417	.975	10.209	-	1.376	816.3589	.726	10.361	-	1.505
810.4850	.993	10.144	-	1.380	816.5037	.744	10.386	-	1.518
811.3713	.103	9.801	-	1.207	817.4082	.856	10.475	-	1.527
812.3358	.224	9.888	-	1.300					
BE Mon									
808.4081	.994	10.270	-	1.192	812.4540	.490	10.712	-	1.389
809.3223	.332	10.578	-	1.341	813.3120	.807	10.783	-	1.367
809.4577	.382	10.618	-	1.371	814.4641	.233	10.475	-	1.322
810.3230	.702	10.807	-	1.400	815.3967	.578	10.739	-	1.401
810.4715	.757	10.823	-	1.387	816.3412	.927	10.488	-	1.277
811.3526	.083	10.316	-	1.176	816.4908	.982	10.288	-	1.202
812.3198	.440	10.671	-	1.377	817.3705	.307	10.546	-	1.341
BV Mon									
808.4331	.718	11.628	-	1.440	814.4757	.722	11.652	-	1.441
809.3433	.019	11.282	-	1.244	815.3259	.004	11.361	-	1.332
809.4685	.061	10.994	-	1.167	815.4104	.032	11.157	-	1.236
810.3384	.350	11.280	-	1.306	815.5027	.063	10.971	-	1.169
810.4828	.398	11.343	-	1.366	816.3547	.346	11.257	-	1.339
811.3677	.691	11.618	-	1.447	816.5017	.394	11.347	-	1.356
812.3328	.011	11.332	-	1.256	817.4051	.694	11.630	-	1.471
812.4649	.055	11.051	-	1.157					
CS Mon									
808.4041	.449	11.068	-	1.401	812.4517	.050	10.765	-	1.239
809.3191	.585	11.195	-	1.411	813.3096	.178	10.873	-	1.320
809.4537	.605	11.208	-	1.434	815.3947	.488	11.089	-	1.415
810.3195	.734	11.285	-	1.419	816.3386	.628	11.219	-	1.435
810.4686	.756	11.282	-	1.435	816.4883	.650	11.244	-	1.447
811.3476	.886	10.966	-	1.294	817.3296	.775	11.257	-	1.434
811.3499	.887	10.960	-	1.293	817.3685	.781	11.237	-	1.411
812.3163	.030	10.750	-	1.223					
CV Mon									
808.4057	.851	10.115	-	1.544	813.3108	.762	10.487	-	1.695
809.3206	.021	10.003	-	1.516	814.4629	.977	9.952	-	1.500
810.4703	.234	10.288	-	1.682	815.3955	.150	10.138	-	1.608
811.3513	.398	10.404	-	1.678	816.3397	.326	10.335	-	1.694

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
812.3178	.578	10.577	-	1.740	816.4891	.353	10.373	-	1.710
812.4524	.603	10.608	-	1.756	817.3694	.517	10.538	-	1.736
EK Mon									
808.4289	.304	11.046	-	1.471	811.3630	.046	10.770	-	1.296
809.3375	.534	11.236	-	1.504	812.3296	.290	11.043	-	1.452
809.4660	.566	11.252	-	1.534	812.4623	.323	11.095	-	1.473
810.3343	.786	11.265	-	1.468	813.3234	.541	11.244	-	1.521
810.4796	.822	11.216	-	1.468	814.4726	.831	11.195	-	1.479
815.3195	.045	10.763	-	1.330	816.3509	.306	11.047	-	1.476
815.4070	.067	10.801	-	1.355	816.4984	.343	11.078	-	1.489
815.4996	.091	10.800	-	1.354	817.4017	.571	11.263	-	1.543
V465 Mon									
808.4588	.330	10.379	-	.923	812.4710	.809	10.391	-	.884
809.3568	.661	10.525	-	.921	814.4836	.551	10.556	-	.980
809.4744	.705	10.499	-	.943	815.4184	.895	10.262	-	.843
810.3480	.027	10.195	-	.829	816.3667	.245	10.279	-	.870
810.4878	.078	10.196	-	.830	816.5059	.296	10.338	-	.906
811.3790	.406	10.446	-	.934	817.4132	.630	10.549	-	.973
812.3420	.761	10.438	-	.905					
V504 Mon									
808.4130	.676	11.958	-	1.329	812.4547	.133	11.696	-	1.233
809.3236	.004	11.612	-	1.167	813.3128	.442	12.019	-	1.368
809.4586	.053	11.625	-	1.194	814.4648	.857	11.669	-	1.213
810.3240	.365	11.919	-	1.305	815.3977	.194	11.743	-	1.246
810.4724	.418	11.989	-	1.356	816.3422	.534	12.029	-	1.358
811.3536	.736	11.871	-	1.191	816.4916	.588	12.016	-	1.331
812.3209	.085	11.630	-	1.191	817.3715	.905	11.630	-	1.211
V508 Mon									
808.4174	.745	10.689	-	1.098	813.3151	.929	10.388	-	.976
809.3262	.964	10.309	-	.921	813.3189	.930	10.377	-	.961
809.4606	.997	10.278	-	.930	814.4669	.208	10.409	-	1.031
810.3265	.206	10.390	-	.982	815.4000	.434	10.576	-	1.099
810.4745	.242	10.448	-	1.047	816.3451	.662	10.669	-	1.108
811.3559	.455	10.632	-	1.107	816.4935	.698	10.680	-	1.103
812.3231	.689	10.683	-	1.081	817.3309	.901	10.444	-	.996
812.4566	.722	10.698	-	1.100	817.3736	.911	10.414	-	.986
V510 Mon									
808.4204	.023	12.518	-	1.722	813.3169	.680	12.842	-	1.853
809.3288	.145	12.474	-	1.679	814.4680	.834	12.787	-	1.836
809.4619	.163	12.499	-	1.724	815.3088	.947	12.608	-	1.778
810.3279	.279	12.537	-	1.761	815.4023	.960	12.597	-	1.744
810.4757	.299	12.561	-	1.770	815.4981	.972	12.585	-	1.753
811.3582	.417	12.633	-	1.778	816.3465	.086	12.447	-	1.711
812.3245	.547	12.732	-	1.836	816.4943	.106	12.437	-	1.708
812.4577	.565	12.758	-	1.859	817.3970	.227	12.541	-	1.761
V526 Mon									
808.4430	.316	8.644	-	.748	812.4682	.820	8.612	-	.718

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
809.3485	.654	8.762	-	.768	814.4805	.573	8.778	-	.773
809.4725	.700	8.730	-	.770	815.4143	.922	8.512	-	.698
810.3431	.026	8.460	-	.659	816.3604	.275	8.606	-	.727
810.4861	.079	8.484	-	.683	816.5050	.329	8.661	-	.764
811.3729	.411	8.709	-	.767	817.4095	.667	8.752	-	.780
812.3372	.771	8.654	-	.721					
CS Ori									
808.3932	.898	11.009	-	.988	814.4528	.456	11.757	-	1.271
809.3088	.133	11.437	-	1.154	815.3047	.675	11.548	-	1.179
809.4497	.169	11.502	-	1.203	815.3620	.690	11.475	-	1.137
810.3102	.391	11.709	-	1.264	815.3855	.696	11.450	-	1.095
811.3364	.655	11.631	-	1.176	815.4868	.722	11.191	-	1.042
812.3105	.905	11.035	-	.987	816.3308	.939	11.105	-	1.038
812.4426	.939	11.122	-	1.040	816.4815	.977	11.177	-	1.062
813.3037	.160	11.478	-	1.198	817.3596	.203	11.538	-	1.223
GQ Ori									
808.3554	.658	9.281	-	1.220	812.4447	.133	8.754	-	.985
808.3954	.663	9.269	-	1.210	813.3015	.232	8.784	-	1.026
809.3114	.769	9.350	-	1.185	814.4548	.366	8.864	-	1.081
809.4515	.785	9.333	-	1.192	815.3875	.474	9.006	-	1.126
810.3067	.885	9.078	-	1.093	816.3325	.584	9.151	-	1.168
810.4613	.903	9.048	-	1.086	816.4832	.601	9.185	-	1.190
811.3376	.004	8.686	-	.941	817.3615	.703	9.332	-	1.213
812.3075	.117	8.724	-	.951					
X Pup									
808.5110	.770	8.856	-	1.546	812.4803	.923	9.032	-	1.564
809.4017	.805	8.913	-	1.524	812.5458	.926	9.058	-	1.562
809.4874	.808	8.920	-	1.551	814.5220	.002	9.141	-	1.552
810.3979	.843	8.958	-	1.552	815.4560	.038	9.172	-	1.540
810.5059	.847	8.956	-	1.541	816.4104	.074	9.150	-	1.501
811.4598	.884	8.982	-	1.545	817.3400	.110	9.028	1.369	1.458
811.5430	.887	8.994	-	1.547	817.4478	.114	8.973	-	1.440
812.3772	.919	9.034	-	1.561					
VW Pup									
808.5094	.488	11.550	-	1.397	812.5432	.429	11.526	-	1.386
809.3997	.695	11.703	-	1.400	814.5198	.890	11.238	-	1.209
809.4854	.715	11.729	-	1.405	815.4536	.108	11.169	-	1.228
810.3964	.928	11.077	-	1.154	815.5117	.122	11.173	-	1.230
810.5044	.953	11.017	-	1.128	815.5654	.134	11.188	-	1.248
810.5656	.967	10.994	-	1.120	816.4076	.331	11.426	-	1.359
811.4562	.175	11.260	-	1.279	817.3390	.548	11.597	-	1.394
812.3751	.390	11.487	-	1.376	817.4435	.572	11.612	-	1.398
812.4782	.414	11.505	-	1.383					
VX Pup									
808.5103	.795	8.372	-	.768	811.5419	.801	8.379	.644	.749
809.4010	.090	8.096	-	.642	812.3759	.078	8.160	.601	.693
809.4866	.119	8.112	-	.671	812.4795	.113	8.214	.625	.730

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
809.5768	.149	8.094	-	.670	812.5444	.134	8.266	.649	.749
810.3972	.421	8.391	-	.787	814.5211	.790	8.207	.585	.703
810.5052	.457	8.453	-	.821	815.4546	.100	8.310	.648	.748
810.5662	.477	8.471	-	.809	816.4090	.417	8.317	.671	.763
811.4575	.773	8.470	.695	.783	817.4461	.762	8.515	.721	.824
WW Pup									
808.5172	.388	10.683	-	1.150	812.3822	.089	10.276	-	.950
809.4066	.550	10.898	-	1.198	812.4912	.109	10.323	-	.977
809.4882	.564	10.920	-	1.205	812.5466	.119	10.366	-	.998
809.5779	.581	10.921	-	1.207	814.5258	.478	10.846	-	1.197
810.4022	.730	11.053	-	1.240	815.4606	.647	10.978	-	1.213
810.5067	.749	11.044	-	1.232	816.3165	.802	10.915	-	1.174
810.5679	.760	11.029	-	1.195	816.4119	.819	10.868	-	1.154
811.4645	.923	10.217	-	.879	817.3415	.988	10.125	-	.884
811.5438	.937	10.157	-	.874					
WX Pup									
808.5181	.154	8.931	-	1.062	812.3826	.587	9.340	-	1.221
809.4075	.254	8.869	-	1.059	812.4917	.599	9.356	-	1.228
809.4887	.263	8.878	-	1.058	812.5472	.605	-	-	1.228
809.5786	.273	8.878	-	1.058	814.5268	.827	9.249	-	1.157
810.4032	.365	9.087	-	1.148	815.3466	.918	8.919	-	1.024
810.5072	.377	9.100	-	1.148	815.4614	.931	8.883	-	1.005
810.5684	.384	9.106	-	1.137	816.3171	.027	8.746	-	.960
811.4657	.484	9.215	-	1.183	816.4124	.038	8.756	-	.977
811.5444	.493	9.236	-	1.189	817.3422	.142	8.915	-	1.055
WY Pup									
808.5319	.215	10.407	-	.890	811.5536	.790	11.002	-	1.081
809.4178	.383	10.617	-	.960	812.3911	.949	10.476	-	.856
809.5400	.406	10.648	-	.990	812.5001	.970	10.382	-	.819
809.5866	.415	10.650	-	.995	812.5558	.981	10.351	-	.790
810.4149	.573	10.784	-	1.029	814.5407	.359	10.615	-	.972
810.5156	.592	10.804	-	1.046	815.4706	.536	10.744	-	1.034
810.5767	.604	10.819	-	1.040	816.4317	.719	10.915	-	1.061
811.4781	.776	10.969	-	1.064	817.3451	.893	10.797	-	.988
WZ Pup									
808.5367	.534	10.585	-	1.019	812.3948	.301	10.358	-	.943
809.4251	.711	10.713	-	1.025	812.5036	.323	10.394	-	.971
809.5440	.734	10.716	-	.991	812.5577	.334	10.425	-	.970
809.5909	.744	10.700	-	1.014	814.5461	.729	10.718	-	1.030
810.4223	.909	9.983	-	.745	815.3531	.890	10.059	-	.777
810.5199	.928	9.925	-	.706	815.4753	.914	9.955	-	.723
810.5797	.940	9.907	-	.712	815.5165	.922	9.923	-	.710
811.4828	.120	10.130	-	.839	815.5696	.933	9.899	-	.716
811.5557	.134	10.196	-	.858	816.4373	.105	10.116	-	.825
AD Pup									
808.5200	.251	9.586	-	1.083	811.4668	.468	9.896	-	1.262

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
809.4086	.316	9.660	-	1.132	811.5452	.474	9.929	-	1.277
809.4898	.322	9.690	-	1.159	812.3837	.535	10.008	-	1.285
809.5795	.329	9.675	-	1.142	812.4927	.543	10.018	-	1.292
810.4046	.390	9.771	-	1.207	812.5481	.547	10.051	-	1.284
810.5081	.397	9.779	-	1.198	814.5281	.693	10.326	-	1.389
810.5691	.402	9.786	-	1.201	815.4623	.762	10.368	-	1.358
816.3180	.825	10.346	-	1.342	817.3439	.900	10.155	-	1.251
816.4131	.832	10.341	-	1.343					
BD Pup									
808.5060	.827	13.795	-	1.544	815.4432	.598	13.815	-	1.559
810.3930	.309	13.603	-	1.532	816.4038	.843	13.727	-	1.522
811.4524	.579	13.837	-	1.604	817.3357	.081	13.372	-	1.429
812.3719	.814	13.836	-	1.555	817.4408	.108	13.388	-	1.415
814.5120	.360	13.679	-	1.588					
BM Pup									
808.5208	.561	11.252	-	1.590	811.4675	.971	10.483	-	1.289
809.4095	.685	11.214	-	1.539	811.5460	.982	10.515	-	1.309
809.5330	.702	11.178	-	1.529	812.3844	.098	10.685	-	1.399
809.5802	.709	11.144	-	1.514	812.4936	.113	10.695	-	1.414
810.4054	.823	10.640	-	1.329	812.5488	.121	10.722	-	1.420
810.5087	.838	10.541	-	1.288	814.5311	.396	11.074	-	1.565
810.5699	.846	10.490	-	1.262	815.4632	.526	11.196	-	1.587
BN Pup									
808.5372	.425	10.213	-	1.517	812.5040	.715	10.241	-	1.428
809.4258	.490	10.337	-	1.525	812.5581	.719	10.253	-	1.437
809.5445	.498	10.360	-	1.516	814.5465	.864	9.708	-	1.191
809.5911	.502	10.363	-	1.544	815.3537	.923	9.288	-	1.060
810.4227	.562	10.449	-	1.545	815.4759	.932	9.351	-	1.088
810.5202	.570	10.457	-	1.542	815.5170	.935	9.367	-	1.091
810.5799	.574	10.456	-	1.548	815.5702	.939	9.378	-	1.108
811.4832	.640	10.438	-	1.524	816.3245	.994	9.480	-	1.171
811.5561	.645	10.459	-	1.529	816.4376	.002	9.503	-	1.179
812.3952	.707	10.255	-	1.432	817.3459	.069	9.600	-	1.257
CE Pup									
808.5443	.393	11.710	-	1.880	811.4902	.452	11.790	-	1.912
809.4300	.411	11.727	-	1.879	812.4048	.471	11.816	-	1.924
809.5473	.413	11.735	-	1.897	814.5584	.514	11.883	-	1.940
810.4275	.431	11.749	-	1.878	815.5231	.534	11.877	-	1.937
810.5251	.433	11.760	-	1.893	816.4456	.553	11.923	-	1.953
HL Pup									
808.5439	.003	10.542	-	1.077	812.4044	.111	10.675	-	1.132
809.4295	.257	10.839	-	1.220	812.5096	.141	10.733	-	1.159
809.5471	.291	10.875	-	1.233	812.5616	.156	10.780	-	1.194
809.5943	.304	10.877	-	1.229	814.5563	.729	11.044	-	1.260
810.4270	.543	11.021	-	1.260	815.5225	.006	10.541	-	1.084
810.5248	.571	11.049	-	1.265	815.5739	.021	10.550	-	1.085

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
811.4898	.848	10.682	-	1.114	816.4449	.271	10.847	-	1.228
811.5601	.869	10.651	-	1.087					
HW Pup									
808.5293	.638	12.321	-	1.684	809.5844	.717	12.471	-	1.697
809.4155	.704	12.447	-	1.703	810.4129	.778	12.551	-	1.708
809.5380	.713	12.453	-	1.704	810.5137	.786	12.560	-	1.726
810.5750	.790	12.544	-	1.698	815.3516	.146	11.432	-	1.269
811.4760	.857	12.520	-	1.673	815.4691	.154	11.416	-	1.260
811.5517	.863	12.546	-	1.668	815.5151	.158	11.414	-	1.270
812.3891	.925	12.373	-	1.606	815.5684	.162	11.397	-	1.263
812.4982	.933	12.363	-	1.605	816.3230	.218	11.627	-	1.362
812.5534	.938	12.363	-	1.611	816.4290	.226	11.661	-	1.380
814.5387	.085	12.092	-	1.503					
LL Pup									
808.5227	.514	11.275	-	1.518	812.4944	.296	11.072	-	1.464
809.4106	.689	11.400	-	1.529	812.5495	.307	11.088	-	1.438
809.5337	.713	11.385	-	1.504	814.5327	.697	11.393	-	1.556
809.5807	.722	11.385	-	1.508	815.3475	.858	10.901	-	1.337
810.4072	.885	10.791	-	1.287	815.4641	.881	10.798	-	1.282
810.5094	.905	10.724	-	1.276	815.5120	.890	10.753	-	1.267
810.5706	.917	10.673	-	1.224	815.5657	.901	10.702	-	1.262
811.4686	.094	10.807	-	1.341	816.3187	.049	10.731	-	1.292
811.5468	.109	10.844	-	1.354	816.4251	.070	10.767	-	1.317
812.3852	.275	11.040	-	1.435					
LQ Pup									
808.5242	.494	12.320	-	1.595	811.4705	.147	12.173	-	1.575
809.4122	.691	11.830	-	1.399	812.3861	.349	12.312	-	1.617
809.5348	.718	11.818	-	1.404	812.4952	.374	12.324	-	1.626
809.5816	.729	11.803	-	1.403	812.5505	.386	12.334	-	1.601
810.4088	.912	11.971	-	1.494	814.5342	.825	11.899	-	1.445
810.5103	.934	11.983	-	1.494	815.4651	.031	12.060	-	1.549
810.5714	.948	11.989	-	1.497	816.4261	.244	12.234	-	1.600
LR Pup									
808.5270	.027	12.246	-	1.242	812.4970	.219	11.407	-	.933
809.4140	.294	11.502	-	.994	812.5523	.236	11.430	-	.937
809.5367	.331	11.577	-	1.026	814.5365	.831	12.247	-	1.319
809.5832	.344	11.617	-	1.055	815.3494	.075	12.126	-	1.199
810.4109	.593	12.010	-	1.229	815.4671	.111	11.982	-	1.161
810.5121	.623	12.026	-	1.214	815.5134	.125	11.887	-	1.126
810.5733	.642	12.074	-	1.244	815.5668	.141	11.736	-	1.052
811.4732	.912	12.259	-	1.279	816.3210	.367	11.649	-	1.063
811.5500	.935	12.288	-	1.291	816.4279	.399	11.708	-	1.095
812.3879	.186	11.447	-	.941					
LS Pup									
808.5349	.813	10.634	-	1.427	811.5543	.026	9.985	-	1.180
809.4206	.875	10.607	-	1.381	812.3933	.085	10.075	-	1.222

Table 1. Continued

<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> <i>2450000+</i>	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
809.5424	.884	10.608	-	1.386	812.5023	.093	10.096	-	1.247
809.5896	.887	10.611	-	1.385	812.5564	.097	10.126	-	1.248
810.4208	.946	10.429	-	1.316	814.5447	.237	10.294	-	1.373
810.5185	.953	10.363	-	1.280	815.4738	.303	10.375	-	1.420
810.5785	.957	10.327	-	1.277	816.4348	.371	10.484	-	1.464
811.4807	.021	9.914	-	1.151					
NT Pup									
808.5322	.486	12.641	-	1.809	811.4781	.675	12.116	-	1.524
809.4179	.543	12.506	-	1.733	812.3915	.734	11.610	-	1.374
809.5400	.551	12.471	-	1.725	812.5000	.741	11.599	-	1.368
809.5870	.554	12.461	-	1.719	814.5410	.872	11.772	-	1.508
810.4154	.607	12.449	-	1.690	815.4707	.932	11.830	-	1.566
810.5161	.614	12.467	-	1.695	816.4319	.994	11.920	-	1.636
XX Vel									
809.5058	.413	10.795	-	1.476	812.5204	.844	10.790	-	1.383
809.5614	.421	10.795	-	1.452	812.5768	.852	10.751	-	1.386
810.4422	.547	10.957	-	1.507	814.5726	.138	10.478	-	1.320
810.5570	.563	10.950	-	1.493	815.5391	.276	10.552	-	1.388
811.5054	.699	11.075	-	1.523	815.5854	.283	10.557	-	1.387
811.5727	.709	11.132	-	1.535	816.4596	.408	10.767	-	1.460
812.4193	.830	10.850	-	1.405					
AP Vel									
808.5468	.028	9.979	-	1.192	812.4062	.262	9.988	1.069	1.264
809.4315	.311	9.935	-	1.243	812.5102	.295	10.073	1.103	1.307
809.5489	.349	9.963	-	1.251	812.5614	.312	10.142	1.120	1.337
809.5946	.363	9.974	-	1.259	814.5600	.951	9.771	.934	1.151
810.4288	.630	10.269	-	1.354	815.5249	.259	10.107	1.092	1.304
810.5265	.661	10.287	-	1.361	815.5740	.275	10.105	1.099	1.313
811.4923	.970	9.588	.835	1.068	816.4475	.554	10.156	1.106	1.318
811.5601	.992	9.575	.804	1.071					
AX Vel									
808.5391	.568	8.456	-	.916	812.4019	.620	8.200	.701	.810
809.4267	.810	8.068	-	.749	812.5068	.649	8.224	.697	.832
809.5450	.842	8.044	-	.738	812.5590	.663	8.277	.671	.856
809.5914	.855	8.045	-	.721	814.5529	.206	8.022	.609	.747
810.4242	.082	8.231	-	.836	815.5197	.469	8.319	.773	.877
810.5225	.108	8.256	-	.848	815.5715	.483	8.326	.796	.871
810.5805	.124	8.267	-	.830	816.4422	.720	8.400	.775	.883
811.4872	.371	8.238	.710	.836					
EX Vel									
808.5499	.505	11.968	-	1.911	812.4074	.797	11.627	-	1.776
809.4346	.572	11.929	-	1.903	812.5105	.804	11.632	-	1.783
809.5493	.581	11.947	-	1.932	814.5604	.959	11.246	-	1.647
810.4299	.647	11.861	-	1.887	815.5260	.032	11.229	-	1.678
810.5315	.655	11.843	-	1.869	815.5745	.036	11.213	-	1.672
811.4934	.728	11.662	-	1.802	816.4484	.102	11.296	-	1.732
811.5607	.733	11.694	-	1.810					

Table 1. Continued

<i>JD Hel</i> 2450000+	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>	<i>JD Hel</i> 2450000+	<i>Phase</i>	<i>V</i>	<i>B - V</i>	<i>V - I_c</i>
EZ Vel									
808.5517	.293	12.236	-	2.018	811.4947	.378	12.326	-	2.085
809.4375	.319	12.251	-	2.013	812.4086	.405	12.366	-	2.084
809.5509	.322	12.254	-	2.039	812.5115	.408	12.386	-	2.108
810.4321	.347	12.291	-	2.062	814.5619	.467	12.482	-	2.142
810.5373	.350	12.303	-	2.057	815.5272	.495	12.499	-	2.158
815.5757	.496	12.470	-	2.141	816.4500	.522	12.517	-	2.144
FG Vel									
808.5599	.605	11.959	-	1.846	812.5133	.218	11.609	-	1.764
809.4391	.742	12.052	-	1.910	812.5682	.226	11.652	-	1.784
809.5532	.759	12.072	-	1.921	814.5636	.536	11.866	-	1.865
810.4338	.896	12.005	-	1.880	815.5291	.685	11.995	-	1.923
810.5392	.912	11.946	-	1.852	815.5773	.693	11.979	-	1.910
811.4968	.060	11.590	-	1.734	816.4528	.828	12.079	-	1.933
811.5647	.071	11.611	-	1.749	816.4528	.828	12.079	-	1.933
812.4103	.202	11.588	-	1.739					