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PHOTOELECTRIC UBV OBSERVATIONS OF RR LYRAE VARIABLE STARS, SECOND LIST

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RESUMEN

Se da la fotometría de setenta estrellas RR Lyrae seleccionadas de la lista de van Herk. Se obtuvieron magnitudes y colores durante máximo y mínimo de sesenta y cuatro estrellas. Para una estrella se dan los valores sólo durante el mínimo. Para las cinco faltantes, las observaciones fueron insuficientes para determinar máximos y mínimos. En la Tabla 4 se listan magnitudes y colores promedio de ciento setenta y cuatro estrellas bien observadas. Estos promedios corresponden a máximo y mínimo.

ABSTRACT

Photoelectric UBV observations are given for 70 RR Lyrae stars selected from van Herk's list of field variables with known proper motion or radial velocity. Magnitudes and colors at maximum and minimum light were obtained for 64 stars, while only minimum light values were observed for one star. For the remaining five stars the observations were insufficient to determine either light extreme. In Table 4 are listed the mean colors and magnitudes at light extreme for all the 174 stars adequately observed during the course of this program.

Key words: PHOTOMETRY — VARIABLE STARS.

I. INTRODUCTION

At the suggestion of Professor J. Oort of Leiden Observatory, we undertook, starting in the fall of 1963, to obtain photoelectric UBV magnitudes and colors at minimum and maximum light of all the brighter RR Lyrae stars selected, from a list provided by Dr. van Herk, as being accessible to us in Tucson. The measures obtained in the first portion of the program have already been published (Fitch, Wiśniewski and Johnson 1966; hereinafter referred to as Paper I). Observations on the concluding portion of the program were obtained up to the spring of 1970 and are reported here.

II. THE OBSERVATIONS

The equipment and observing procedures were essentially the same as described in Paper I. The observations listed in Table 1 were obtained with the 28-inch and 61-inch telescopes at the Catalina observing stations of LPL by Bookmeyer Lee and Wiśniewski; and the data reductions were carried out in the LPL data-processing center by Messrs. J. Kij and R. I. Mitchell. The measures listed in Table 2 were obtained with the 36-inch telescope at the Kitt Peak observing station of Steward Observatory by Fitch, and processed on the CDC 6400 computer at the University of Arizona Computing Center with programs written by Fitch.

As in Paper I, U, B, and V magnitudes at light extrema were read from smoothed curves through the phase plots of the measures. The resulting colors and magnitudes at individually observed light extremes are given in Table 3, where minima and maxima observed on the same night are listed on

the same line. Finally, Table 4 gives our best estimates, for each of the 174 stars observed during the full course of this program, of V, B-V, and U-B at minimum and maximum light, together with the period P (taken from the GCVS or the Cracow ephemeris), the *observed* rise time (M-m)/P, and the *observed* V amplitude ΔV. When two or more observed extrema for one star agreed well, their average value was used in Table 4; but when the amplitude was highly variable, the larger amplitude values were used. As indicated in the last column of Table 4, the RRc-type variable RW Ari was found by Wiśniewski (1972) to also be a member of an eclipsing system.

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TABLE 1

LPL UBV MAGNITUDES FOR RR LYRAE STARS

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		TZ AQR			
39384.7168	11.608	39384.7154	11.814	39384.7182	11.970
.7286	11.576	.7272	11.799	.7300	11.919
.7348	11.607	.7335	11.824	.7362	11.966
.7411	11.587	.7397	11.830	.7425	11.987
.7460	11.681	.7453	11.915	.7473	12.025
.7515	11.673	.7501	11.916	.7529	12.079
.7585	11.680	.7571	11.948	.7598	12.080
39746.6912	12.379	39746.6891	12.784	39746.6933	12.831
.6982	12.387	.6968	12.815	.7002	12.979
.7051	12.362	.7037	12.815	.7134	12.857
.7120	12.357	.7100	12.889	.7218	12.924
.7197	12.380	.7183	12.868	.7294	12.997
.7273	12.425	.7245	12.881	.7364	12.910
.7343	12.418	.7322	12.866	.7433	12.991
.7412	12.380	.7398	12.888	.7489	12.997
.7475	12.439	.7461	12.883	.7551	12.962
.7537	12.414	.7516	12.902	.7614	13.002
.7600	12.429	.7579	12.867	.7683	13.089
.7662	12.494	.7641	12.881	.7808	13.013
.7794	12.397	.7780	12.905	.7975	12.697
.7954	12.231	.7940	12.719	.8037	12.589
.8023	12.119	.8002	12.593	.8107	12.381
.8086	12.018	.8072	12.382	.8169	12.309
.8155	11.972	.8134	12.296	.8239	12.319
.8225	11.901	.8211	12.203	.8301	12.272
.8280	11.875	.8266	12.160	.8370	12.162
.8350	11.828	.8329	12.082		
39748.6439	11.805	39748.6425	12.189	39748.6460	12.152
.6509	11.841	.6488	12.214	.6523	12.228
.6571	12.026	.6550	12.101	.6592	12.180
.6641	11.955	.6627	12.139	.6654	12.251
.6703	11.886	.6682	12.120	.6717	12.346
.6766	12.034	.6745	12.282	.6779	12.151
.6821	11.881	.6807	12.301	.6835	12.141
.6877	11.968	.6863	12.395	.6891	12.374
.6925	12.014	.6911	12.230	.6939	12.522
.6981	11.882	.6967	12.372	.6995	12.385
.7043	12.024	.7029	12.462	.7057	12.453
.7099	12.026	.7085	12.350	.7113	12.493
.7252	12.042	.7238	12.438	.7342	12.667
.7328	12.092	.7314	12.520	.7398	12.708
.7384	12.030	.7370	12.433	.7460	12.603
.7446	12.105	.7418	12.502	.7516	12.397
.7502	12.188	.7488	12.459	.7564	12.531
.7550	12.107	.7536	12.497	.7731	12.661
.7717	12.169	.7682	12.630	.7786	12.715
.7773	12.068	.7759	12.558	.7842	12.670
.7828	12.120	.7814	12.482	.7904	12.646
.7884	12.137	.7863	12.593	.8009	12.752
.7939	12.115	.7925	12.650	.8092	12.723
.8078	12.233	.8064	12.670		
		BR AQR			
39413.7601	11.841	39413.7581	12.296	39413.7622	12.423
.7685	11.871	.7664	12.321	.7706	12.470
.7761	11.885	.7740	12.367	.7782	12.507
.7838	11.905	.7817	12.379	.7858	12.486
.7907	11.914	.7893	12.409	.7935	12.454
.7983	11.891	.7963	12.380	.8011	12.447
.8067	11.831	.8046	12.299	.8088	12.325
.8150	11.671	.8129	12.138	.8171	12.066
.8233	11.430	.8220	11.816	.8247	11.720
39414.7719	11.811	39414.7691	12.271	39414.7733	12.325
.7788	11.688	.7768	12.137	.7809	12.081
.7865	11.408	.7844	11.866	.7893	11.683
.7934	11.216	.7927	11.530	.7955	11.545
.7997	11.125	.7983	11.380	.8011	11.404
.8052	10.952	.8038	11.194	.8073	11.225
.8115	10.818	.8101	11.001	.8129	11.082
.8170	10.765	.8156	10.894	.8191	11.029
.8233	10.784	.8219	10.889	.8247	11.047
.8295	10.805	.8261	10.922	.8309	11.088
.8351	10.828	.8337	10.962	.8372	11.115
.8413	10.879	.8400	10.988	.8427	11.168
.8476	10.902	.8462	11.026	.8490	11.207
39742.8207	11.855	39742.8172	12.277	39742.8242	12.287
.8311	11.872	.8290	12.241	.8325	12.300
		RW ARI			
39384.8100	12.503	39384.8087	12.937	39384.8121	13.001
.8177	12.546	.8156	12.917	.8205	13.000
.8260	12.497	.8232	12.897	.8281	12.956
.8330	12.480	.8316	12.858	.8350	12.948
.8413	12.434	.8385	12.796	.8427	12.884
.8475	12.463	.8455	12.809	.8496	12.930
.8656	12.429	.8628	12.724	.8677	12.826
.8725	12.414	.8705	12.734	.8746	12.806
.8802	12.401	.8781	12.716	.8823	12.829
.8871	12.406	.8850	12.707	.8892	12.844
.8948	12.369	.8927	12.683	.8968	12.816
.9017	12.411	.8996	12.680	.9038	12.826
.9100	12.539	.9073	12.739	.9121	12.971
.9170	12.739	.9149	12.940	.9191	13.082
.9253	12.773	.9225	12.983	.9267	13.191
.9323	12.851	.9302	13.066	.9343	13.206
.9406	12.874	.9378	13.134	.9420	13.227
.9475	12.905	.9455	13.128	.9489	13.288
.9545	12.894	.952[illegible]	13.140	.9566	13.305
.9621	12.941	.9593	13.179	.9642	13.340
.9698	12.969	.9670	13.204	.9718	13.331
.9767	12.973	.9746	13.251		

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		RW ARI			
39411.8503	12.237	39411.8482	12.546	39411.8517	12.625
.8565	12.258	.8544	12.563	.8586	12.651
.8669	12.240	.8648	12.537	.8683	12.658
.8801	12.241	.8787	12.543	.8829	12.679
.8975	12.218	.8961	12.522	.8989	12.693
39411.9183	12.271	39411.9169	12.603	39411.9204	12.728
39413.9107	12.297	39413.9080	12.639	39413.9128	12.742
.9191	12.269	.9170	12.586	.9218	12.724
.9274	12.262	.9253	12.570	.9302	12.726
.9350	12.261	.9337	12.592	.9378	12.732
.9434	12.234	.9413	12.585	.9455	12.703
.9510	12.223	.9489	12.544	.9538	12.679
.9593	12.213	.9573	12.512	.9614	12.695
.9677	12.179	.9656	12.508	.9698	12.675
.9760	12.175	.9732	12.460	.9788	12.630
.9843	12.160	.9823	12.482	.9878	12.677
.9934	12.163	.9913	12.426	.9968	12.602
39414.0024	12.187	39414.0003	12.451	39414.0045	12.577
.0128	12.164	.0107	12.450	.0149	12.660
39422.8401	12.151	39422.8324	12.462	39422.8359	12.614
.8463	12.122	.8387	12.446	.8415	12.588
.8519	12.132	.8442	12.422	.8477	12.604
.8581	12.140	.8505	12.443	.8540	12.639
.8658	12.141	.8567	12.436	.8602	12.620
.8720	12.158	.8644	12.454	.8678	12.633
.8783	12.175	.8706	12.470	.8741	12.642
		.8769	12.479	.8803	12.678
39434.8623	12.218	39434.8609	12.502	39434.8637	12.679
.8672	12.215	.8658	12.465	.8685	12.556
39468.7179	12.462	39468.7165	12.826	39468.7964	12.826
.7672	12.537	.7658	12.887	.7693	12.813
39471.6156	12.530	39471.6136	12.928	39471.6170	13.004
.6893	12.274	.6886	12.566	.6906	12.650
.7497	12.139	.7490	12.475	.7504	12.573
.7761	12.135	.7775	12.447	.7795	12.585
.7962	12.206	.7948	12.496	.7976	12.628
39472.6593	12.592	39472.6579	13.025	39472.6614	13.066
.6920	12.538	.6906	12.916	.6934	13.020
.7059	12.508	.7045	12.890	.7072	12.972
.7211	12.379	.7204	12.804	.7225	12.867
.7809	12.207	.7795	12.510	.7822	12.601
39473.5648	12.218	39473.5641	12.500		
.6190	12.324	.6183	12.718		
.6370	12.387	.6363	12.778		
.6488	12.440	.6481	12.825		
.6593	12.457	.6586	12.897		
.6822	12.517	.6815	12.936		
.7058	12.571	.7051	12.984		
.7322	12.541	.7315	12.997		
.7697	12.492	.7690	12.872		
.7912	12.341	.7898	12.716		
.8211	12.220	.8197	12.598		
.8377	12.213	.8370	12.546		
39474.6536	12.180	39474.6529	12.514		
.6884	12.323	.6870	12.655		
.6995	12.437	.6974	12.799		
.7106	12.378	.7099	12.766		
.7286	12.420	.7279	12.833		
.7564	12.506	.7550	12.892		
39474.8127	12.609	39474.8120	13.022		
.8252	12.549	.8245	12.944		
.8425	12.431	.8411	12.744		
39475.5980	12.234	39475.5973	12.609		
.6126	12.214	.6119	12.532		
.6237	12.178	.6230	12.504		
.6286	12.179	.6279	12.469		
.6438	12.122	.6431	12.464		
.6702	12.137	.6688	12.449		
.6862	12.153	.6848	12.484		
.7022	12.200	.7015	12.538		
.7119	12.225	.7112	12.560		
.7598	12.363	.7591	12.797		
.7987	12.499	.7973	12.918		
39476.6056	12.463	39476.6049	12.873	39476.6063	12.972
.6104	12.428	.6097	12.783	.6118	12.918
.6181	12.404	.6174	12.730	.6188	12.825
.6222	12.312	.6208	12.655	.6229	12.815
.6264	12.299	.6250	12.674	.6271	12.754
.6306	12.283	.6313	12.600	.6320	12.772
.6354	12.225	.6347	12.564	.6368	12.723
.6396	12.294	.6389	12.600	.6403	12.763
.6431	12.270	.6424	12.589	.6445	12.749
.6472	12.270	.6458	12.605	.6479	12.719
.6549	12.280	.6542	12.579	.6556	12.725
.6597	12.277	.6583	12.554	.6604	12.693
.7174	12.185	.7167	12.464	.7181	12.632
.7410	12.170	.7396	12.447	.7417	12.585
.7486	12.190	.7465	12.484		
.7903	12.265	.7896	12.596		
39478.7061	12.469	39478.7033	12.932	39478.7082	13.056
.7728	12.230	.7700	12.558	.7957	12.558
39479.5949	12.189	39479.5928	12.486	39479.5970	12.643
.6880	12.459	.6859	12.867	.7956	12.867
39504.5920	12.487	39504.5906	12.889	39504.5934	12.964
.6080	12.423	.6066	12.742	.6094	12.828
.6232	12.325	.6219	12.620	.6246	12.751
.6330	12.273	.6330	12.727	.6344	12.750
.6406	12.272	.6392	12.569	.6420	12.713
.6816	12.188	.6802	12.490	.6830	12.613
39505.5773	13.213	39505.5759	12.828	39505.5787	12.995
.5849	13.210	.5836	12.849	.5863	13.018
.6072	13.247	.6051	12.862	.6086	12.966
.6606	13.179	.6593	12.781	.6620	12.869
.6731	13.039	.6718	12.661		

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U	HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
			RW ARI						UU BOO		
39506.6015	12.490	39506.6001	12.869	39506.6029	12.996	.9378	12.436	.9369	12.817	.9387	13.163
.6258	12.534	.6237	12.906	.6272	13.014	.9412	12.453	.9403	12.856	.9421	12.954
.6411	12.534	.6397	12.923	.6425	13.021	.9455	12.520	.9444	12.903	.9464	12.865
.6599	12.553	.6585	12.992	.6612	13.165	.9490	12.515	.9480	12.865	.9499	12.995
.6751	12.614	.6737	12.968			.9525	12.469	.9515	12.912	.9535	13.118
.6925	12.571	.6911	12.948			.9562	12.433	.9553	12.961	.9571	13.009
.7161	12.500	.7147	12.899			40334.8824	12.565	40334.8815	13.050	40334.8881	13.077
39507.5854	12.201	39507.5841	12.500	39507.5868	12.706	.8872	12.536	.8853	12.973	.8915	13.121
.5986	12.252	.5973	12.541	.6000	12.710	.8906	12.620	.8896	13.003	.9002	13.025
.9028	12.680	40334.9017	13.060	40334.9117	13.163	.8955	12.612	.8945	13.012	.9037	13.140
.9062	12.645	.9053	13.046	.9144	13.079	.8985	12.688	.8982	13.017	.9071	13.134
.9106	12.635	.9097	13.080	.9185	13.163	40337.8711	11.600	40337.8698	11.590	40337.8757	11.667
.9142	12.802	.9132	13.072	.9220	13.099	.8747	11.604	.8737	11.561	.8794	11.733
.9176	12.704	.9167	13.036	.9255	13.145	.8783	11.634	.8772	11.652	.8828	11.863
.9212	12.750	.9202	13.129	.9287	13.021	.8819	11.631	.8810	11.672	.8863	11.844
.9245	12.758	.9235	13.083	.9321	13.075	.8854	11.688	.8844	11.620	.8900	11.797
.9278	12.715	.9269	13.099	.9392	13.071	.8889	11.713	.8880	11.690	.8935	11.901
.9312	12.726	.9303	13.114	.9426	13.242	.8925	11.707	.8917	11.736	.8970	11.888
.9347	12.835	.9337	13.083	.9459	13.214	.8960	11.729	.8951	11.734	.9005	11.987
.9383	12.725	.9373	13.068	.9494	13.235	.8996	11.728	.8987	11.759	.9050	11.964
.9416	12.714	.9406	13.131	.9528	13.345	.9039	11.739	.9030	11.816	.9085	11.971
.9450	12.765	.9441	13.054	.9562	13.215	.9076	11.743	.9067	11.812	.9121	11.979
.9519	12.724	.9474	13.148	.9597	13.275	.9111	11.881	.9101	11.913	.9157	12.201
.9553	12.705	.9508	13.129	.9645	13.163	.9146	11.803	.9137	11.925	.9192	12.109
.9587	12.896	.9544	13.183	.9680	13.403	.9183	11.854	.9173	11.979		
.9635	12.789	.9577	13.083	.9736	13.141	40338.6830	12.709	40338.6819	13.005	40338.6839	13.047
.9671	12.721	.9625	13.083	.9802	13.019	.6869	12.726	.6858	13.075	.6879	13.286
.9746	12.743	.9660	13.021	.9837	13.312	.6906	12.754	.6896	13.058	.6917	13.055
.9717	12.679	.9698	13.058	.9880	13.250	.6946	12.715	.6936	13.117	.6956	13.178
.9792	12.679	.9708	12.928			.6983	12.801	.6973	13.137	.6998	13.380
.9828	12.651	.9783	13.018			.7022	12.816	.7012	13.304	.7032	13.293
.9878	12.764	.9811	13.030			.7060	12.700	.7050	13.116	.7070	13.170
		.9864	13.030			.7100	12.772	.7090	13.136	.7110	13.272
40335.8927	12.638	40335.8878	13.071	40335.8896	12.995	.7136	12.808	.7126	13.273	.7146	13.266
.9032	12.741	.8913	13.011	.8942	12.700	.7171	12.761	.7162	13.231	.7182	13.276
.9084	12.610	.8973	12.973	.9046	13.001	.7210	12.840	.7200	13.194	.7220	13.375
.9132	12.617	.9017	12.984	.9098	12.819	.7246	12.832	.7237	13.266	.7256	13.324
.9183	12.654	.9069	13.069	.9146	13.063	.7282	12.743	.7273	13.241	.7292	13.245
.9233	12.586	.9117	13.088	.9199	12.933	.7318	12.834	.7308	13.285	.7328	13.197
.9281	12.582	.9169	13.006	.9248	13.252	.7355	12.706	.7346	13.049	.7366	13.134
.9349	12.722	.9219	13.012	.9296	12.958	.7395	12.689	.7385	13.169	.7411	13.113
.9397	12.527	.9267	13.068	.9364	12.910	.7430	12.547	.7420	12.948	.7439	13.026
.9498	12.714	.9335	12.935	.9412	13.054	.7467	12.545	.7450	12.884	.7476	12.799
.9546	12.640	.9383	13.029	.9462	13.170	.7501	12.296	.7485	12.795	.7510	12.662
		.9484	13.024	.9555	13.036	.7536	12.209	.7526	12.523	.7546	12.393
		.9537	13.096			.7571	12.097	.7562	12.313	.7581	12.251
40337.8034	12.850	40337.8024	13.193	40337.8044	13.177	.7607	11.855	.7597	12.114	.7616	12.063
.8070	12.802	.8061	13.287	.8080	13.251	.7641	11.766	.7631	12.004	.7651	12.076
.8109	12.847	.8099	13.104	.8119	13.109	.7676	11.678	.7667	11.840	.7685	11.639
.8157	12.793	.8146	13.152	.8167	13.255						
.8192	12.833	.8183	13.083	.8203	13.153				UY BOO		
.8229	12.729	.8219	13.099	.8238	13.055						
.8264	12.694	.8255	13.123	.8275	13.158	39521.9221	11.197	39521.9200	11.584	39521.9242	11.582
.8303	12.589	.8292	12.843	.8312	12.754	.9298	11.167	.9279	11.555	.9312	11.526
.8332	12.332	.8329	12.662	.8348	12.586	.9360	11.099	.9346	11.515	.9381	11.439
.8374	12.132	.8364	12.349	.8383	12.142	.9430	11.026	.9409	11.418	.9450	11.339
.8421	11.910	.8401	12.086	.8430	12.043	.9492	10.959	.9478	11.293	.9506	11.240
.8456	11.850	.8447	11.928	.8466	11.899	.9541	10.881	.9527	11.233	.9555	11.190
.8491	11.630	.8482	11.680	.8501	11.711	.9589	10.835	.9582	11.154	.9603	11.148
.8523	11.657	.8519	11.634	.8537	11.603	.9645	10.774	.9631	11.084	.9659	11.083
.8566	11.525	.8554	11.515	.8575	11.543	.9693	10.716	.9680	11.009	.9707	11.027
.8601	11.493	.8592	11.513	.8612	11.543	.9742	10.664	.9728	10.947	.9756	10.965
.8637	11.471	.8626	11.570	.8721	11.645	.9791	10.629	.9777	10.873	.9805	10.936
						.9839	10.585	.9825	10.826	.9853	10.897
			UU BOO			.9930	10.557	39521.9923	10.771	39521.9950	10.867
						.9985	10.533	.9971	10.759	.9992	10.857
.6118	12.296	39507.6111	12.607	39507.6132	12.779	39522.0027	10.549	39522.0013	10.759	39522.0041	10.858
.6250	12.327	.6236	12.670	.6264	12.874	.0075	10.549	.0062	10.753	.0089	10.853
.6375	12.373	.6361	12.698	.6389	12.848	.0124	10.563	.0110	10.777	.0138	10.880
.6507	12.413	.6493	12.771	.6521	12.889	.0166	10.578	.0152	10.781	.0180	10.917
.6625	12.378	.6611	12.815	.6639	12.955	.0214	10.585	.0200	10.806	.0228	10.930
.6806	12.478	.6792	12.878	.6820	13.020	.0270	10.592	.0256	10.820	.0284	10.943
.6938	12.529	.6924	12.923	.6952	13.040	39993.6665	11.166	39993.6657	11.590	39993.6675	11.523
.7070	12.518	.7056	12.886			.6701	11.176	.6692	11.580	.6710	11.513
.7195	12.531	.7181	12.922			.6736	11.159	.6727	11.570	.6745	11.555
39508.5819	12.136	39508.5805	12.440	39508.5840	12.594	.6770	11.134	.6761	11.528	.6779	11.456
.6083	12.109	.6069	12.422	.6103	12.577	.6803	11.117	.6795	11.518	.6812	11.485
.6291	12.163	.6277	12.450	.6312	12.630	.6837	11.114	.6828	11.512	.6846	11.473
.6437	12.168	.6423	12.507	.6451	12.672	.6871	11.096	.6863	11.503	.6880	11.450
.6583	12.217	.6569	12.551	.6603	12.647	.6903	11.094	.6895	11.495	.6912	11.486
.6728	12.275	.6715	12.597	.6749	12.711	.6953	11.157	.6945	11.547	.6962	11.506
.6881	12.313	.6867	12.675	.6895	12.823	.6988	11.136	.6980	11.529	.6997	11.524
.7013	12.369	.6999	12.727	.7027	12.845	.7021	11.123	.7012	11.503	.7030	11.543
.7145	12.425	.7131	12.834			.7053	11.121	.7045	11.534	.7062	11.528
.7284	12.470	.7270	12.842			.7087	11.106	.7078	11.577	.7095	11.521
39521.5861	12.539	39521.5840	12.955	39521.5889	13.134	.7119	11.156	.7110	11.600	.7160	11.538
						.7152	11.088	.7144	11.632	.7244	11.575
			UU BOO			.7199	11.155	.7185	11.578	.7277	11.576
						.7236	11.188	.7224	11.582	.7360	11.599
39643.7734	12.446	39643.7706	12.835	39643.7748	12.632	.7269	11.177	.7260	11.575	.7400	11.603
.7789	12.157	.7775	12.455	.7803	12.316	.7358	11.191	.7350	11.609	.7432	11.607
.7845	11.902	.7831	12.145	.7859	12.062	.7391	11.212	.7383	11.619	.7465	11.593
.7900	11.681	.7886	11.875	.7914	11.761	.7424	11.214	.7415	11.613		
.7963	11.541	.7949	11.648	.7977	11.650	.7456	11.187	.7447	11.622		
.8018	11.509	.8005	11.554	.8032	11.625	40002.7219	11.162	40002.7211	11.587	40002.7228	11.546
.8074	11.508	.8060	11.564	.8088	11.647	.7253	11.159	.7244	11.574	.7262	11.556
.8130	11.581	.8116	11.579	.8143	11.696	.7285	11.176	.7277	11.576	.7294	11.576
.8185	11.581	.8171	11.652	.8199	11.775	.7319	11.171	.7311	11.599	.7328	11.615
.8234	11.638	.8220	11.688	.8248	11.819	.7353	11.178	.7344	11.575	.7362	11.587
40333.8942	12.135	40333.8925	12.541	40333.8952	12.671	.7385	11.164	.7376	11.583	.7394	11.566
.8978	12.300	.8969	12.597	.8989	12.609	.7418	11.169	.7409	11.565	.7426	11.550
.9017	12.224	.9005	12.707	.9041	12.935	.7451	11.143	.7442	11.535	.7460	11.543
.9103	12.376	.9094	12.782	.9113	12.636	.7483	11.163	.7475	11.589	.7492	11.538
.9151	12.393	.9141	12.692	.9160	13.046	.7517	11.162	[illegible]98	11.584	.7525	11.576
.9196	12.338	.9187	12.730	.9206	12.702	.7549	11.156	.7540	11.562	.7558	11.566
.9236	12.432	.9224	12.764	.9246	12.724	.7582	11.157	.7573	11.555	.7591	11.570
.9271	12.471	.9262	12.800	.9280	12.767	.7614	11.158	.7606	11.559	.7624	11.573
.9307	12.463	.9297	12.824	.9317	13.127	.7648	11.156	.7639	11.572	.7657	11.575
.9344	12.411	.9332	12.787	.9353	12.856	.7681	11.160	.7672	11.572	.7691	11.546

TABLE 1 (CONTINUED)

HELIO. JD 2400000.+	V	HELIO. JD 2400000.+	B	HELIO. JD 2400000.+	U
		UY BOO			
40002.7715	11.161	40002.7706	11.551	40002.7724	11.558
.7749	11.175	.7739	11.554	.7758	11.526
.7783	11.177	.7774	11.560	.7793	11.578
.7821	11.160	.7813	11.570	.7830	11.538
.7869	11.173	.7880	11.564	.7865	11.553
.7922	11.189	.7913	11.566	.7898	11.539
.7955	11.171	.7946	11.555	.7932	11.540
.7989	11.177	.7980	11.569	.7964	11.554
.8021	11.189	.8012	11.578	.7998	11.639
.8055	11.221	.8047	11.583	.8031	11.589
.8091	11.231	.8083	11.602	.8066	11.585
.8137	11.221	.8122	11.602	.8105	11.624
.8171	11.265	.8162	11.631	.8146	11.668
.8207	11.267	.8196	11.640	.8180	11.644
.8244	11.275	.8233	11.644	.8217	11.659
.8280	11.290	.8271	11.635	.8253	11.673
.8314	11.272	.8305	11.636	.8289	11.662
.8348	11.257	.8339	11.650	.8324	11.658
				.8358	11.635
40338.8052	10.452	40338.8078	10.700	40338.8090	10.689
.8122	10.411	.8113	10.667	.8125	10.716
.8157	10.457	.8147	10.674	.8159	10.770
.8191	10.459	.8182	10.627	.8200	10.777
.8226	10.473	.8217	10.710	.8235	10.785
.8260	10.520	.8251	10.728	.8269	10.844
.8297	10.496	.8284	10.737	.8307	10.816
.8332	10.523	.8323	10.752	.8342	10.839
.8368	10.561	.8359	10.723	.8377	10.873
.8402	10.576	.8393	10.797	.8411	11.005
.8442	10.583	.8434	10.782	.8451	10.928
.8475	10.588	.8466	10.851	.8484	10.860
40340.6757	10.872	40340.6748	11.177	40340.6767	11.103
.6794	10.790	.6784	11.103	.6803	11.130
.6830	10.808	.6820	10.948	.6839	10.977
.6866	10.675	.6856	10.931	.6875	10.947
.6901	10.621	.6892	10.831	.6911	10.868
.6937	10.574	.6928	10.859	.6947	10.899
.6973	10.510	.6964	10.677	.6984	10.757
.7010	10.459	.7000	10.606	.7019	10.653
.7047	10.357	.7037	10.589	.7057	10.648
.7086	10.374	.7077	10.464	.7089	10.570
.7123	10.320	.7114	10.399	.7132	10.505
.7157	10.244	.7148	10.387	.7168	10.495
.7194	10.263	.7180	10.347	.7203	10.444
.7229	10.249	.7219	10.394	.7238	10.478
.7263	10.265	.7254	10.365	.7272	10.499
.7299	10.324	.7289	10.413	.7309	10.558
.7333	10.340	.7324	10.402	.7343	10.565
.7373	10.358	.7360	10.538	.7383	10.580
.7408	10.349	.7399	10.466	.7418	10.618
.7446	10.430	.7436	10.483	.7455	10.707
.7490	10.408	.7481	10.538	.7500	10.641
.7525	10.394	.7516	10.501	.7535	10.642
.7555	10.475	.7552	10.597	.7572	10.672
.7597	10.449	.7588	10.603	.7607	10.753
.7633	10.465	.7623	10.574	.7643	10.771
.7671	10.528	.7661	10.642	.7680	10.777
.7721	10.546	.7711	10.677	.7730	10.873
.7749	10.556	.7746	10.684	.7765	10.799
.7803	10.571	.7794	10.680	.7812	10.847
.7837	10.567	.7828	10.780	.7839	10.848
.7880	10.579	.7871	10.764	.7889	10.892
.7915	10.639	.7905	10.734	.7924	10.926
.7960	10.619	40340.7950	10.800	40340.7969	10.940
.7995	10.649	.7985	10.811	.8005	10.944
.8030	10.645	.8021	10.878	.8039	10.923
.8064	10.717	.8055	10.865	.8073	10.983
.8100	10.687	.8091	10.833	.8110	10.972
.8137	10.697	.8125	10.887	.8147	10.993
.8174	10.698	.8165	10.907	.8183	11.007
.8210	10.706	.8200	10.896	.8219	11.033
.8246	10.732	.8235	10.906	.8255	11.038
.8280	10.768	.8271	10.992	.8289	11.066
.8319	10.760	.8306	10.968	.8324	11.095
.8350	10.804	.8340	11.023	.8365	11.035
.8391	10.808	.8382	11.030	.8401	11.112
.8425	10.790	.8416	11.043	.8435	11.134
		RZ CAM			
39418.9253	13.319	39418.9234	13.785	39418.9269	13.860
.9332	13.307	.9311	13.726	.9352	13.831
.9408	13.212	.9387	13.647	.9429	13.719
.9484	12.970	.9464	13.501	.9505	13.376
.9561	12.673	.9540	13.038	.9582	12.997
.9637	12.409	.9616	12.726	.9651	12.655
.9707	12.157	.9686	12.414	.9727	12.380
.9783	12.116	.9762	12.234	.9797	12.333
.9846	12.088	.9832	12.216	.9859	12.362
.9908	12.108	.9894	12.240	.9929	12.401
.9984	12.212	.9964	12.333	39419.0005	12.552
39419.0054	12.306	39419.0033	12.461	.0075	12.662
39478.8218	13.286	39478.8197	13.767	39478.8239	13.894
.8294	13.280	.8273	13.767	.8315	13.838
.8364	13.309	.8350	13.780	.8384	13.844
.8440	13.310	.8419	13.786	.8461	13.831
.8516	13.282	.8496	13.794	.8530	13.827
.8586	13.319	.8565	13.782	.8607	13.856
.8662	13.301	.8641	13.761	.8690	13.852
.8746	13.270	.8725	13.748	.8766	13.890
.8822	13.282	.8808	13.725	.8843	13.792
39479.7794	13.307	39479.7773	13.788	39479.7815	13.800
.7871	13.286	.7843	13.752	.7892	13.807
.7940	13.300	.7926	13.754	.7968	13.894
.8037	13.263	.7996	13.815	.8058	13.911
.8121	13.313	.8100	13.778	.8142	13.849
.8190	13.284	.8169	13.755	.8211	13.901
.8260	13.305	.8239	13.742	.8287	13.881
.8336	13.295	.8315	13.751	.8357	13.909
.8405	13.273	.8385	13.750	.8426	13.872

HELIO. JD 2400000.+	V	HELIO. JD 2400000.+	B	HELIO. JD 2400000.+	U
		RZ CAM			
39506.7771	13.297	39506.7757	13.757	39506.7792	13.836
.7854	13.328	.7820	13.774	.7875	13.843
.7917	13.304	.7896	13.754	.7938	13.798
.7986	13.287	.7965	13.739	.8007	13.769
.8063	13.268	.8042	13.709	.8083	13.848
.8132	13.274	.8111	13.732	.8153	13.825
.8201	13.288	.8181	13.757	.8222	13.841
.8278	13.383	39506.8257	13.809	39506.8299	13.921
.8347	13.407	.8326	13.867	.8368	13.984
.8445	13.392	.8417	13.885		
39877.6325	13.288	39877.6290	13.783	39877.6360	13.899
.6436	13.192	.6408	13.832	.6519	13.834
.6603	13.263	.6575	13.742	.6658	13.864
.6894	13.281	.6873	13.792	.7005	13.918
.6971	13.306	.6957	13.722	.7110	13.720
.7089	13.225	.7054	13.711	.7339	13.983
.7325	13.297	.7311	13.768	.7387	14.110
.7380	13.374	.7366	13.804	.7471	13.949
.7457	13.371	.7443	13.809	.7554	13.827
.7533	13.325	.7526	13.865	.7644	14.026
.7637	13.356	.7610	13.784	.7728	13.815
.7714	13.236	.7693	13.753		
39887.7958	13.212	39887.7945	13.586	39887.7974	13.648
.8039	13.204	.8021	13.644	.8057	13.752
.8120	13.242	.8108	13.641	.8145	13.661
.8209	13.272	.8187	13.668	.8227	13.814
.8262	13.290	.8264	13.767	.8305	13.886
39888.7203	13.223	39888.7176	13.631	39888.7229	13.853
.7306	13.121	.7284	13.695	.7325	13.739
.7381	13.389	.7355	13.726	.7406	13.798
.7481	13.217	.7463	13.708	.7505	13.723
.7571	13.202	.7546	13.557	.7589	13.685
.7658	13.243	.7639	13.589	.7691	13.831
.7744	13.182	.7723	13.595	.7768	13.741
.7821	13.292	.7798	13.650	.7839	13.679
.7895	13.316	.7876	13.630	.7921	13.761
.7968	13.343	.7949	13.737	.7996	13.798
.8044	13.319	.8026	13.728	.8099	13.787
.8158	13.305	.8140	13.654	.8178	13.947
39890.6008	13.249	39890.5994	13.692	39890.6022	13.729
.6077	13.305	.6063	13.644	.6090	13.614
.6145	13.216	.6126	13.679	.6166	13.790
.6232	13.183	.6208	13.706	.6256	13.652
.6303	13.228	.6286	13.723	.6324	13.835
.6368	13.161	.6352	13.654	.6384	13.597
.6452	13.170	.6431	13.629	.6467	13.762
.6512	13.200	.6495	13.714	.6532	13.684
.6589	13.229	.6574	13.753	.6604	13.709
.6654	13.270	.6638	13.694	.6671	13.615
.6722	13.180	.6704	13.675	.6745	13.674
.6792	13.227	.6772	13.638	.6808	13.597
.6853	13.159	.6836	13.716	.6869	13.573
.7122	13.320	.7107	13.675	.7137	13.711
.7183	13.356	.7166	13.745	.7199	13.752
.7252	13.311	.7231	13.797	.7268	13.736
.7313	13.296	.7299	13.763	.7329	13.795
39908.6564	12.794	39908.6543	13.030	39908.6586	13.107
.6632	12.786	.6613	13.097	.6653	13.218
.6704	12.840	.6684	13.142	.6727	13.114
.6788	13.280	.6758	13.131	.6820	13.147
.6868	13.086	.6847	13.193	.6891	13.271
.7025	12.856	39908.7004	13.242	39908.7045	13.395
.7100	12.952	.7082	13.364	.7123	13.460
.7217	12.983	.7197	13.350	.7238	13.577
39910.6731	13.042	39910.6716	13.399	39910.6745	13.507
.6800	13.028	.6781	13.499	.6814	13.620
.6872	13.108	.6853	13.454	.6891	13.704
.6955	13.088	.6934	13.652	.6975	13.508
.7052	13.142	.7030	13.523	.7076	13.659
.7142	13.078	.7116	13.628	.7166	13.719
.7221	12.920	.7202	13.631	.7240	13.739
.7327	13.124	.7304	13.698	.7346	13.730
.7405	13.229	.7386	13.606	.7425	13.849
39912.6416	13.127	39912.6394	13.674	39912.6467	13.679
.6523	13.155	.6503	13.718	.6543	13.784
.6597	13.262	.6577	13.746	.6616	13.824
.6680	13.268	.6657	13.749	.6699	13.763
.6837	13.260	.6818	13.756	.6859	13.834
.6924	13.507	.6905	13.648	.6948	13.995
.7096	14.137	.7075	13.590	.7134	13.322
40156.9159	12.947	40156.9149	13.681	40156.9168	13.292
.9199	12.902	.9190	13.140	.9236	11.176
.9343	13.301	.9326	13.099	.9361	12.922
.9409	12.752	.9389	13.222	.9427	13.154
40183.7977	13.283	40183.7963	13.835	40183.7993	13.600
.8063	12.738	.8126	13.340	.8100	13.709
.8136	13.173	.8162	13.597	.8146	13.292
.8173	12.922	.8208	13.140	.8191	12.867
.8217	13.269	.8325	13.140	.8233	12.326
.8260	13.206	.8362	13.053	.8282	13.088
.8333	12.741	.8411	12.725	.8345	12.874
.8372	12.342	.8448	12.400	.8393	13.077
.8420	12.121	.8483	12.742	.8430	13.196
.8457	12.322	.8518	12.373	.8467	12.276
.8491	11.838	.8555	11.983	.8500	11.961
.8527	12.023	.8614	12.326	.8537	12.144
.8584	12.148	.8689	11.947	.8575	11.396
.8623	11.473			.8647	12.601
.8701	12.286			.8710	11.721
40184.9050	12.716	40184.9041	12.823	40184.9069	12.480
.9096	12.315	.9087	12.949	.9149	12.050
.9177	12.855	.9131	12.911	.9190	12.295
		Z CVN			
39887.8695	11.647	39887.8673	11.908	39887.8717	11.808
.8768	11.576	.8748	11.842	.8787	11.755
.8848	11.524	.8819	11.763	.8872	11.738
.8922	11.470	.8901	11.712	.8944	11.683
.8995	11.439	.8974	11.644	.9015	11.637

TABLE 1 (CONTINUED)

Z CVN

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
39887.9061	11.414	39887.9042	11.619	39887.9082	11.638
.9127	11.414	.9109	11.605	.9148	11.620
.9200	11.413	.9182	11.605	.9220	11.639
.9268	11.429	.9248	11.629	.9288	11.622
.9410	11.479	.9389	11.680	.9432	11.708
.9480	11.527	.9460	11.706	.9501	11.744
39908.8533	11.570	39908.8518	11.800	39908.8554	11.907
.8643	11.598	.8629	11.846	.8657	11.940
.8698	11.635	.8681	11.890	.8714	11.988
.8753	11.635	.8738	11.914	.8768	12.009
.8805	11.676	.8789	11.962	.8819	12.052
.8859	11.758	.8843	12.001	.8873	12.145
.8914	11.822	.8898	12.110	.8930	12.236
.8967	11.920	.8954	12.231	.8984	12.345
40335.6775	12.155	40335.6764	12.355	40335.6789	12.503
.6834	12.021	.6823	12.296	.6843	12.380
.6870	11.965	.6860	12.394	.6880	12.351
.6909	11.928	.6898	12.276	.6918	12.284
.6947	11.948	.6933	12.214	.6957	12.307
.6981	11.913	.6972	12.214	.6991	12.239
.7017	11.798	.7007	12.238	.7027	12.348
.7065	11.860	.7043	12.076	.7068	12.107
.7100	11.773	.7090	12.057	.7116	12.064
.7146	11.806	.7132	12.034	.7156	12.093
.7180	11.762	.7171	11.983	.7189	12.047
.7214	11.708	.7205	11.963	.7224	12.077
.7250	11.744	.7241	11.868	.7260	11.999
.7287	11.623	.7277	11.930	.7296	11.919
.7335	11.623	.7325	11.782	.7339	11.890
.7372	11.639	.7362	11.761	.7382	11.850
.7408	11.545	.7398	11.781	.7427	11.876
.7457	11.542	.7443	11.731	.7468	11.862
.7494	11.569	.7484	11.704	.7504	11.821
.7530	11.530	.7519	11.597	.7541	11.805
.7569	11.453	.7559	11.683	.7580	11.805
.7607	11.527	.7597	11.702	.7617	11.839
.7643	11.525	.7633	11.691	.7652	11.834
.7677	11.536	.7668	11.709	.7687	11.813
40342.8044	12.208	40342.8034	12.594	40342.8053	12.639
.8079	12.173	.8070	12.565	.8088	12.619
.8112	12.195	.8103	12.582	.8121	12.556
.8145	12.131	.8136	12.538	.8155	12.738
.8179	12.165	.8170	12.526	.8188	12.480
.8216	12.176	.8207	12.488	.8225	12.616
.8248	12.211	.8239	12.542	.8257	12.610
.8281	12.102	.8272	12.530	.8289	12.512
.8313	12.150	.8304	12.548	.8349	12.350
.8347	12.110	.8338	12.378	.8389	12.619
.8381	12.163	.8372	12.420	.8422	12.496
.8413	12.168	.8404	12.363	.8456	12.320
.8445	12.193	.8436	12.420	.8504	12.434
.8493	12.125	.8479	12.379	.8536	12.272
.8534	12.001	.8524	12.308	.8588	12.204
.8574	12.065	.8560	12.338	.8630	12.253
.8621	11.942	.8603	12.429	.8664	12.200
.8654	12.015	.8645	12.240		
40350.6606	12.289	40350.6597	12.761	40350.6653	12.709
.6643	12.216	.6634	12.680	.6688	12.738
.6678	12.283	.6669	12.748	.6723	12.841
.6714	12.398	.6704	12.663	.6759	12.799
.6750	12.310	.6740	12.625	.6799	12.690
.6790	12.348	.6780	12.782	.6896	12.703
.6850	12.282	.6841	12.676	.6930	12.686
.6887	12.342	.6878	12.632	.6969	12.797
.6921	12.320	.6912	12.620	.7005	12.762
.6960	12.228	.6985	12.675	.7038	12.798
.6995	12.280	.7021	12.699	.7077	12.860
.7029	12.343	.7054	12.750	.7113	12.928
.7068	12.290	.7095	12.670	.7147	12.802
.7104	12.354	.7129	12.649	.7181	12.767
.7138	12.425	.7163	12.667	.7216	12.720
.7172	12.284	.7197	12.652	.7249	12.691
.7206	12.378	.7231	12.586	.7289	12.798
.7240	12.332	.7265	12.643	.7323	12.614
.7275	12.273	.7304	12.659	.7357	12.747
.7314	12.224	.7339	12.604	.7393	12.648
.7348	12.249	.7374	12.578	.7427	12.606
.7383	12.186	.7409	12.486	.7460	12.416
.7418	12.146	.7443	12.476	.7496	12.633
.7451	12.127	.7476	12.417	.7530	12.463
.7486	12.127	.7512	12.409	.7584	12.263
.7521	12.119	.7546	12.219	.7623	12.259
.7575	12.002	.7603	12.116	.7664	12.118
.7612	11.997	.7645	12.093	.7700	12.007
.7654	11.797	.7681	12.011	.7736	11.898
.7691	11.862	.7718	11.886		
.7727	11.698				

RZ CVN

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
39561.8608	11.878	39561.8594	12.284	39561.8622	12.333
.8663	11.902	.8642	12.284	.8677	12.311
.8719	11.903	.8705	12.320	.8733	12.324
.8781	11.921	.8767	12.346	.8795	12.349
.8837	11.912	.8823	12.344	.8851	12.354
.8885	11.922	.8872	12.342	.8899	12.335
.8941	11.928	.8927	12.338	.8962	12.355
.8997	11.896	.8983	12.334	.9017	12.336
.9052	11.897	.9038	12.301	.9066	12.290
.9108	11.845	.9094	12.275	.9129	12.228
.9163	11.830	.9149	12.184	.9177	12.117
39622.6995	10.995	39622.6988	11.101	39622.7002	11.230
.7030	11.012	.7023	11.124	.7044	11.253
.7079	11.035	.7072	11.144	.7085	11.288
.7127	11.050	.7106	11.177	.7141	11.313
39643.6865	10.835	39643.6851	10.931	39643.6900	11.029
.6962	10.860	.6948	10.939	.6976	11.070
.7032	10.898	.7011	10.997	.7046	11.141
.7094	10.942	.7080	11.042	.7108	11.212
.7157	10.998	.7143	11.075	.7177	11.243
.7233	11.039	.7205	11.167	.7247	11.299
.7302	11.095	.7289	11.227	.7316	11.355
40328.6928	11.543	40328.6919	11.914	40328.6902	11.885
.6971	11.519	.6962	11.891	.6941	11.905
.7004	11.544	.6996	11.890	.6980	11.938
.7039	11.515	.7029	11.880	.7013	11.915
.7072	11.546	.7064	11.868	.7048	11.943
.7112	11.562	.7102	11.947	.7085	11.933
.7169	11.547	.7160	11.968	.7120	11.982
.7251	11.542	.7196	11.929	.7219	11.929
.7285	11.597	.7237	11.942	.7260	11.990
.7318	11.542	.7277	12.003	.7294	11.995
.7357	11.599	.7310	11.975	.7328	12.005
.7594	11.634	.7346	11.950	.7365	12.049
.7628	11.655	.7511	12.046	.7528	12.140
.7664	11.666	.7548	12.109	.7567	12.203
.7702	11.702	.7583	12.163	.7603	12.137
.7737	11.717	.7619	12.092	.7637	12.201
		.7654	12.135	.7674	12.202
		.7692	12.109	.7712	12.149
		.7728	12.141	.7746	12.220
40331.6998	11.863	40331.6984	12.293	40331.7013	12.383
.7055	11.900	.7045	12.356	.7065	12.345
.7142	11.905	.7091	12.256	.7112	12.357
.7178	11.905	.7131	12.294	.7152	12.418
.7220	11.881	.7209	12.335	.7230	12.349
.7255	11.902	.7246	12.315	.7303	12.416
.7293	11.940	.7284	12.318	.7340	12.294
.7330	11.918	.7320	12.293	.7378	12.340
.7369	11.897	.7360	12.318		
40336.7046	11.705	40336.7032	12.126	40336.7056	12.173
.7082	11.829	.7073	12.153	.7091	12.273
.7115	11.754	.7107	12.200	.7126	12.181
.7153	11.781	.7144	12.229	.7162	12.268
.7188	11.812	.7178	12.183	.7198	12.228
.7226	11.836	.7216	12.187	.7236	12.197
.7263	11.781	.7253	12.188	.7273	12.315
.7298	11.793	.7289	12.240	.7307	12.251
.7333	11.844	.7323	12.228	.7342	12.297
.7369	11.848	.7358	12.233	.7378	12.232
.7404	11.770	.7394	12.274	.7413	12.222
.7439	11.860	.7429	12.254	.7448	12.287
.7476	11.812	.7465	12.277	.7486	12.214
.7511	11.659	.7502	12.281	.7521	12.251
.7557	11.840	.7537	12.291	.7566	12.316
.7605	11.901	.7595	12.322	.7616	12.288
.7645	11.874	.7634	12.307	.7654	12.300
.7681	11.851	.7671	12.346	.7690	12.320
.7717	11.863	.7708	12.280	.7728	12.342
.7753	11.890	.7744	12.290	.7764	12.311
.7831	11.979	.7781	12.306	.7801	12.379
.7871	11.868	.7821	12.329	.7844	12.339
.7916	11.834	.7907	12.303	.7880	12.315
.7952	11.857	.7941	12.274	.7926	12.296
.7999	11.933	.7990	12.307	.7962	12.276
.8030	11.968	.8027	12.362	.8009	12.365
.8073	11.861	.8064	12.294	.8046	12.302
.8108	11.889	.8099	12.300	.8082	12.312
.8145	11.865	.8136	12.283	.8119	12.362
.8180	11.854	.8171	12.295	.8155	12.29-
.8216	11.815	.8207	12.257	.8190	12.243
.8264	11.865	.8255	12.320	.8225	12.308
.8299	11.835	.8290	12.266	.8273	12.240
.8335	11.902	.8326	12.294	.8308	12.201
.8370	11.789	.8362	12.240	.8345	12.284
.8404	11.809	.8396	12.237	.8379	12.195
.8441	11.851	.8432	12.259	.8415	12.160
.8492	11.837	.8479	12.283	.8462	12.187
.8523	11.858	.8514	12.246	.8498	12.269
.8551	11.882	.8548	12.286	.8532	12.210
.9023	11.729	.9010	12.236	.8566	12.193
				.9034	12.182
40343.7352	11.768	40343.7342	12.151	40343.7361	12.258
.7388	11.932	.7378	12.144	.7397	12.162
.7427	11.719	.7415	12.148	.7436	12.305
.7462	11.825	.7452	12.220	.7472	12.288
.7497	11.737	.7488	12.291	.7507	12.189
.7543	11.708	.7524	12.196	.7552	12.203
.7577	11.898	.7568	12.218	.7586	12.353
.7615	12.007	.7605	12.303	.7625	12.505
.7651	11.770	.7642	12.161	.7660	12.208
.7686	11.862	.7676	12.138	.7695	12.114
.7721	11.699	.7713	12.235	.7731	12.393
.7757	11.975	.7747	12.292	.7766	12.282
.7792	11.790	.7783	12.241	.7801	12.235
.7825	11.882	.7816	12.088	.7835	12.214
.7860	11.810	.7851	12.079	.7870	12.153
.7895	11.861	.7886	11.976	.7904	12.261
.7929	11.649	.7920	12.023	.7940	12.045
.7965	11.764	.7956	12.035	.7975	12.047
.8000	11.589	.7990	11.867	.8010	11.929
.8036	11.411	.8026	11.671	.8045	12.084
.8080	11.393	.8061	11.697	.8090	11.762
.8115	11.386	.8106	11.600	.8124	11.691
.8148	11.305	.8139	11.514	.8157	11.620
.8217	11.104	.8208	11.328	.8227	11.448
.8252	11.174	.8243	11.249	.8262	11.422
.8286	11.075	.8277	11.234	.8296	11.374
.8321	11.043	.8312	11.142	.8330	11.284
.8354	10.922	.8345	11.090	.8364	11.324
.8388	10.924	.8379	11.076	.8398	11.284
.8422	10.948	.8413	11.020	.8432	11.232
.8457	10.897	.8448	10.989	.8467	11.169
.8491	10.884	.8483	11.019	.8502	11.257
.8527	10.867	.8518	10.989	.8538	11.214
.8562	10.942	.8553	11.018	.8571	11.217
.8596	10.904	.8587	11.020	.8606	11.232
.8631	10.949	.8622	11.015	.8641	11.277

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		RZ CVN			
40343.8665	11.000	40343.8656	11.046	40343.8674	11.284
.8699	10.981	.8690	11.066	.8708	11.289
.8732	11.049	.8723	11.108	.8742	11.307
.8766	10.952	.8757	11.116	.8776	11.375
.8801	11.019	.8791	11.140	.8810	11.336
.8848	11.105	.8836	11.123	.8857	11.392
.8882	11.098	.8873	11.211	.8891	11.423
		ST CVN			
39556.8939	11.528	39556.8925	11.890	39556.8953	11.944
.8994	11.527	.8980	11.880	.9008	11.922
.9050	11.518	.9036	11.862	.9064	11.913
.9098	11.490	.9085	11.855	.9112	11.869
.9154	11.465	.9140	11.821	.9168	11.841
39625.7198	11.272	39625.7184	11.483	39625.7212	11.560
.7247	11.266	.7233	11.459	.7261	11.548
.7295	11.250	.7282	11.471	.7309	11.537
.7344	11.256	.7330	11.456	.7365	11.537
.7400	11.243	.7386	11.460	.7487	11.533
.7441	11.238	.7427	11.443	.7455	11.510
.7490	11.228	.7476	11.442	.7504	11.500
.7538	11.219	.7525	11.422	.7552	11.500
.7594	11.223	.7573	11.409	.7608	11.487
.7643	11.202	.7629	11.402	.7657	11.489
.7782	11.165	.7768	11.364	.7795	11.443
.7830	11.153	.7816	11.355	.7844	11.439
.7879	11.153	.7865	11.331	.7893	11.435
.7934	11.149	.7920	11.322	.7948	11.424
.7983	11.142	.7969	11.318	.7997	11.431
.8025	11.156	.8011	11.322	.8038	11.430
.8073	11.152	.8059	11.325	.8087	11.440
.8122	11.161	.8108	11.329	.8136	11.439
.8170	11.166	.8157	11.337	.8184	11.444
.8400	11.235	.8379	11.460	.8407	11.563
39626.6448	11.597	39626.6427	11.902	39626.6455	11.939
.6489	11.561	.6475	11.869	.6503	11.903
.6830	11.386	.6816	11.652	.6844	11.678
39948.8310	11.326	39948.8296	11.542	39948.8342	11.602
.8380	11.319	.8366	11.551	.8395	11.561
.8496	11.267	.8472	11.471	.8510	11.579
.8546	11.271	.8530	11.428	.8560	11.490
39969.6910	11.011	39969.6899	11.302	39969.6920	11.451
.6975	11.043	.6967	11.393	.6986	11.501
.7026	11.104	.7018	11.444	.7041	11.575
.7076	11.187	.7067	11.515	.7085	11.648
.7118	11.197	.7105	11.558	.7128	11.695
.7156	11.201	.7147	11.544	.7166	11.680
.7343	11.211	.7331	11.604	.7355	11.732
.7382	11.244	.7373	11.615	.7393	11.731
.7421	11.242	.7412	11.619	.7436	11.716
.7466	11.283	.7457	11.644	.7475	11.750
.7502	11.302	.7492	11.655	.7512	11.807
.7539	11.279	.7529	11.668	.7682	11.848
.7673	11.320	.7662	11.724	.7764	11.836
.7708	11.329	.7698	11.749	.7803	11.869
.7748	11.291	.7739	11.746	.7839	11.905
.7793	11.344	.7784	11.724	.7873	11.871
.7829	11.318	.7821	11.783	.7952	11.925
.7864	11.380	.7854	11.758	.8004	11.928
.7903	11.343	.7893	11.722	.8039	11.924
.7942	11.413	.7932	11.705	.8081	11.990
.8030	11.439	.7969	11.856	.8238	11.922
.8072	11.377	.8022	11.841	.8273	11.893
.8230	11.432	.8058	11.836	.8314	11.955
.8264	11.404	.8221	11.825	.8350	11.922
.8298	11.418	.8255	11.820	.8384	11.979
.8339	11.418	.8289	11.843	.8419	11.902
.8376	11.440	.8331	11.825	.8458	11.880
.8410	11.407	.8366	11.813	.8493	11.880
.8448	11.394	.8401	11.808	.8530	11.878
.8484	11.388	.8438	11.817	.8564	11.836
.8518	11.393	.8476	11.763	.8601	11.814
.8555	11.370	.8510	11.757	.8650	11.734
.8592	11.321	.8546	11.733	.8687	11.701
.8627	11.321	.8583	11.697	.8722	11.730
.8677	11.268	.8618	11.663	.8965	11.567
.8713	11.250	.8668	11.639	.9041	11.565
.8955	11.110	.8703	11.592	.9077	11.555
.9032	11.149	.8945	11.452	.9115	11.537
.9068	11.113	.9023	11.421	.9154	11.500
.9105	11.072	.9060	11.444	.9200	11.521
.9145	11.095	.9096	11.387	.9241	11.465
.9181	11.071	.9135	11.375	.9279	11.476
.9231	11.052	.9172	11.356	.9317	11.424
.9269	11.037	.9222	11.347	.9353	11.447
.9308	11.065	.9259	11.293	.9394	11.495
.9343	11.041	.9299	11.302	.9431	11.476
.9384	11.056	.9333	11.317	.9468	11.463
.9421	11.038	.9370	11.310	.9504	11.464
.9459	11.037	.9412	11.282	.9539	11.447
.9494	11.029	.9449	11.303	.9575	11.479
.9530	11.046	.9486	11.277		
.9566	11.049	.9520	11.306		
		.9557	11.293		
39971.6345	11.239	39971.6335	11.469	39971.6355	11.509
.6381	11.260	.6372	11.437	.6390	11.475
.6417	11.234	.6408	11.441	.6427	11.530
.6452	11.255	.6443	11.441	.6461	11.559
.6487	11.264	.6478	11.464	.6497	11.556
.6528	11.314	.6514	11.472	.6537	11.616
.6562	11.295	.6554	11.500	.6571	11.584
.6615	11.309	.6597	11.510	.6624	11.586
.6651	11.278	.6641	11.495	.6659	11.575
.6685	11.287	.6676	11.496	.6694	11.555
.6723	11.279	.6714	11.492	.6733	11.605
.6758	11.310	.6749	11.525	.6772	11.630
.6799	11.333	.6789	11.523	.6808	11.619
.6842	11.333	.6826	11.531	.6852	11.651

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		ST CVN			
39971.6880	11.315	39971.6869	11.567	39971.6889	11.669
.6927	11.336	.6918	11.564	.6938	11.646
.6963	11.367	.6954	11.619	.6973	11.684
.6999	11.399	.6989	11.610	.7010	11.770
.7035	11.415	.7026	11.639	.7046	11.706
.7072	11.419	.7062	11.680	.7081	11.743
.7108	11.427	.7099	11.676	.7118	11.776
.7143	11.456	.7134	11.692	.7152	11.766
.7178	11.452	.7169	11.709	.7187	11.750
.7212	11.452	.7203	11.734	.7221	11.805
.7246	11.474	.7237	11.730	.7255	11.763
.7280	11.476	.7271	11.744	.7289	11.841
.7315	11.475	.7305	11.745	.7324	11.769
.7394	11.512	.7384	11.775	.7403	11.854
.7428	11.509	.7419	11.809	.7437	11.844
.7462	11.523	.7453	11.778	.7471	11.870
.7501	11.563	.7489	11.787	.7619	11.778
.7609	11.535	.7528	11.729	.7726	11.896
.7715	11.526	.7563	11.745	.7965	11.910
.7753	11.583	.7601	11.777	.8001	11.898
.7787	11.615	.7707	11.772	.8036	11.843
.7820	11.536	.7744	11.806	.8071	11.828
.7854	11.559	.7778	11.816	.8106	11.818
.7888	11.531	.7812	11.786	.8141	11.818
.7922	11.516	.7846	11.791	.8176	11.779
.7956	11.504	.7880	11.849	.8212	11.707
.7990	11.545	.7913	11.814	.8246	11.742
.8026	11.520	.7947	11.849	.8283	11.732
.8061	11.515	.7981	11.770	.8324	11.671
.8096	11.484	.8017	11.793	.8360	11.667
.8132	11.484	.8053	11.794	.8395	11.642
.8167	11.478	.8087	11.774	.8433	11.625
.8202	11.476	.8123	11.752	.8469	11.608
.8237	11.424	.8158	11.712	.8503	11.590
.8274	11.407	.8193	11.714	.8580	11.508
.8316	11.412	.8228	11.686	.8617	11.501
.8351	11.384	.8264	11.663	.8653	11.502
.8385	11.361	.8307	11.665	.8689	11.485
.8421	11.371	.8341	11.621	.8724	11.480
.8460	11.310	.8376	11.603	.8762	11.481
.8494	11.332	.8413	11.592	.8806	11.496
.8570	11.257	.8449	11.550	.8842	11.483
.8606	11.259	.8485	11.530	.8876	11.407
.8643	11.252	.8562	11.463	.8921	11.419
.8680	11.241	.8597	11.445	.8955	11.429
.8715	11.253	.8634	11.437	.8989	11.405
.8752	11.240	.8670	11.419	.9026	11.365
.8797	11.239	.8705	11.452	.9059	11.392
.8833	11.215	.8743	11.426	.9093	11.414
.8868	11.184	.8788	11.404	.9128	11.415
.8912	11.177	.8824	11.387	.9162	11.375
.8946	11.186	.8858	11.371	.9199	11.440
.8980	11.176	.8902	11.346	.9236	11.386
.9016	11.163	.8937	11.349	.9272	11.390
.9050	11.157	.8971	11.337	.9313	11.396
.9084	11.152	.9006	11.335	.9356	11.421
.9119	11.139	.9042	11.326	.9393	11.475
.9153	11.150	.9076	11.310	.9440	11.431
.9188	11.174	.9110	11.320	.9478	11.418
.9226	11.149	.9144	11.312	.9517	11.415
.9263	11.134	.9179	11.328	.9565	11.449
.9303	11.162	.9217	11.290	.9605	11.423
.9347	11.140	.9253	11.299		
.9384	11.183	.9292	11.306		
.9430	11.165	.9337	11.349		
.9468	11.153	.9374	11.302		
.9505	11.177	.9412	11.307		
.9544	11.195	.9457	11.294		
.9594	11.162	.9496	11.327		
		.9534	11.338		
		.9585	11.340		
39983.7906	11.148	39983.7897	11.303	39983.7917	11.467
.7942	11.123	.7933	11.288	.7951	11.441
.7974	11.103	.7965	11.272	.7983	11.368
.8007	11.118	.7998	11.297	.8016	11.380
.8040	11.123	.8031	11.296	.8049	11.425
.8073	11.116	.8064	11.313	.8082	11.421
.8106	11.106	.8097	11.287	.8115	11.440
.8138	11.132	.8129	11.284	.8147	11.474
.8170	11.135	.8162	11.317	.8179	11.439
.8202	11.163	.8193	11.334	.8210	11.451
.8235	11.164	.8226	11.346	.8243	11.430
.8270	11.255	.8261	11.431	.8279	11.543
.8304	11.219	.8295	11.452	.8312	11.557
.8335	11.236	.8326	11.450	.8343	11.589
.8368	11.229	.8359	11.479	.8377	11.553
.8401	11.289	.8392	11.487	.8410	11.583
.8434	11.276	.8425	11.491	.8442	11.613
.8467	11.285	.8458	11.511	.8476	11.640
.8499	11.311	.8490	11.525	.8508	11.594
.8531	11.316	.8522	11.535	.8540	11.678
.8563	11.317	.8554	11.561	.8572	11.676
.8595	11.368	.8587	11.592	.8604	11.710
39996.7070	11.408	39996.7061	11.622	39996.7079	11.787
.7106	11.416	.7097	11.646	.7115	11.733
.7140	11.435	.7132	11.624	.7149	11.855
.7174	11.423	.7165	11.690	.7183	11.826
.7209	11.439	.7200	11.723	.7218	11.902
.7242	11.473	.7233	11.769	.7251	11.927
.7275	11.487	.7266	11.743	.7284	11.896
.7311	11.501	.7302	11.757	.7320	11.937
.7343	11.524	.7335	11.774	.7353	11.880
.7377	11.488	.7368	11.814	.7386	11.900
.7411	11.488	.7402	11.806	.7420	11.864
.7444	11.511	.7436	11.827	.7453	11.892
.7479	11.513	.7470	11.827	.7488	11.954
.7517	11.508	.7508	11.818	.7527	11.897
.7552	11.575	.7542	11.875	.7561	11.997
.7586	11.578	.7577	11.862	.7595	11.913

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		ST CVN			
39996.7620	11.539	39996.7612	11.845	39996.7630	11.914
.7655	11.547	.7640	11.835	.7664	11.942
.7688	11.558	.7680	11.859	.7698	11.932
.7723	11.549	.7714	11.840	.7731	11.945
.7758	11.588	.7749	11.899	.7767	11.983
.7794	11.556	.7785	11.863	.7803	11.947
.7827	11.592	.7819	11.901	.7837	11.974
.7863	11.603	.7854	11.926	.7872	11.996
.7897	11.632	.7888	11.922	.7907	12.012
.7933	11.670	.7923	11.971	.7941	12.055
.7967	11.634	.7958	11.952	.7977	12.003
.8002	11.659	.7993	11.971	.8011	12.039
.8038	11.619	.8029	11.920	.8047	11.996
		.8063	11.908	.8081	12.061
		SW CVN			
39555.8243	13.237	39555.8229	13.704	39555.8299	13.667
.8347	13.248	.8333	13.615	.8361	13.581
.8424	13.240	.8396	13.612	.8444	13.627
.8493	13.244	.8472	13.640	.8514	13.597
.8562	13.242	.8542	13.592	.8583	13.649
.8639	13.258	.8618	13.638	.8660	13.697
.8708	13.330	.8687	13.638	.8729	13.764
.8826	13.345	.8806	13.671	.8847	13.713
.8896	13.330	.8868	13.688	.8910	13.693
.9014	13.264	.8993	13.689	.9035	13.599
.9097	13.106	.9083	13.482	.9118	13.416
.9167	12.894	.9153	13.246	.9181	13.061
.9215	12.631	.9201	12.945	.9229	12.779
.9264	12.423	.9250	12.628	.9278	12.511
.9312	12.221	.9299	12.363	.9326	12.286
.9361	12.069	.9354	12.168	.9375	12.122
.9403	12.040	.9396	12.069	.9417	12.090
.9444	12.026	.9437	12.066	.9451	12.099
.9486	12.056	.9472	12.069	.9493	12.120
.9528	12.065	.9514	12.106	.9542	12.187
.9576	12.184	.9562	12.179	.9590	12.355
		RU CET			
40145.8518	11.655	40145.8508	11.910	40145.8528	11.889
.8553	11.652	.8544	11.985	.8562	11.903
.8591	11.623	.8582	11.867	.8600	12.085
.8630	11.576	.8621	11.830	.8639	11.779
.8666	11.529	.8655	11.711	.8676	11.873
.8703	11.489	.8694	11.597	.8712	11.719
.8740	11.401	.8731	11.674	.8749	11.594
.8830	11.228	.8821	11.358	.8839	11.358
40147.7076	11.285	40147.7067	11.476	40147.7085	11.585
.7112	11.315	.7103	11.509	.7122	11.612
.7149	11.324	.7140	11.495	.7159	11.676
.7187	11.307	.7176	11.521	.7196	11.535
.7221	11.336	.7212	11.537	.7230	11.605
.7256	11.344	.7247	11.528	.7265	11.501
.7290	11.281	.7280	11.553	.7299	11.630
.7325	11.321	.7315	11.551	.7333	11.325
.7359	11.226	.7351	11.509	.7369	11.737
.7432	11.273	.7423	11.504	.7406	11.532
.7478	11.263	.7464	11.642	.7442	11.873
.7513	11.442	.7504	11.537	.7486	12.092
.7548	11.185	.7539	11.647	.7522	11.641
.7583	11.293	.7573	11.587	.7557	12.037
.7618	11.536	.7609	11.623	.7592	11.667
.7653	11.542	.7644	11.583	.7628	11.763
.7690	11.517	.7681	11.660	.7663	11.245
.7739	11.453	.7730	11.686	.7700	11.753
				.7748	11.798
40148.6886	11.875	40148.6877	12.322	40148.6898	12.213
.6924	11.919	.6915	12.318	.6934	12.291
.6964	11.852	.6950	12.297	.6974	12.157
.7004	11.928	.6993	12.309	.7013	12.301
.7080	11.907	.7070	12.277	.7090	12.398
.7115	11.867	.7106	12.292	.7124	12.279
.7149	11.868	.7140	12.261	.7161	12.327
.7186	11.887	.7177	12.244	.7195	12.390
.7222	11.848	.7212	12.251	.7231	12.376
.7256	11.855	.7247	12.193	.7265	12.355
.7291	11.877	.7282	12.271	.7300	12.414
.7325	11.833	.7315	12.131	.7335	12.339
.7361	11.824	.7352	12.165	.7370	11.812
.7396	11.861	.7387	12.184	.7406	12.251
.7432	11.861	.7423	12.186	.7443	12.184
.7468	11.770	.7459	12.169	.7477	11.813
.7504	11.781	.7494	12.090	.7512	11.959
.7538	11.669	.7529	12.052	.7548	11.701
.7577	11.728	.7568	11.982	.7588	12.112
.7616	11.712	.7604	12.089	.7627	12.062
.7652	11.658	.7643	12.004	.7661	11.942
.7689	11.582	.7679	11.972	.7698	12.021
.7739	11.682	.7730	11.955	.7748	12.049
.7774	11.657	.7766	11.872	.7784	11.962
.7846	11.629	.7837	11.861	.7855	12.010
.7882	11.571	.7873	11.727	.7891	11.609
.7918	11.519	.7909	11.870	.7927	11.930
.7952	11.529	.7943	11.809	.7962	11.844
.7990	11.486	.7980	11.657	.7999	11.565
.8025	11.551	.8016	11.646	.8034	11.735
		RV CET			
39394.8351	11.030	39394.8330	11.455	39394.8364	11.509
.8413	11.026	.8399	11.442	.8434	11.578
.8496	11.062	.8476	11.473	.8510	11.541
.8559	11.019	.8545	11.500	.8580	11.512
.8628	11.031	.8614	11.499	.8649	11.563
.8698	11.037	.8684	11.506	.8719	11.579
.8774	11.024	.8753	11.514	.8795	11.512
.8864	11.044	.8844	11.494	.8878	11.558

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		RU CET			
39415.8612	10.802	39415.8591	11.174	39415.8633	11.289
.8695	10.806	.8674	11.182	.8709	11.327
.8765	10.797	.8744	11.200	.8786	11.328
.8841	10.820	.8820	11.217	.8862	11.356
.8917	10.821	.8897	11.249	.8938	11.353
.8994	10.841	.8973	11.255	.9015	11.383
.9077	10.834	.9063	11.268	.9098	11.357
.9154	10.873	.9133	11.299	.9174	11.411
.9251	10.872	.9230	11.305	.9265	11.391
39479.6043	11.001	39479.6022	11.451	39479.6057	11.532
.6106	11.005	.6092	11.469	.6119	11.542
.6356	11.028	.6342	11.463	.6369	11.540
.6411	11.026	.6397	11.471	.6425	11.555
.6467	11.019	.6453	11.478	.6481	11.572
.6529	11.028	.6508	11.496	.6543	11.525
.6592	11.031	.6578	11.485	.6612	11.547
.6654	11.015	.6640	11.474	.6661	11.570
.6703	11.025	.6696	11.489	.6717	11.521
.6765	11.039	.6751	11.483	.6779	11.568
39745.8247	11.040	39745.8233	11.541	39745.8268	11.650
.8316	11.063	.8302	11.561	.8337	11.621
.8393	11.051	.8379	11.573	.8413	11.608
.8462	11.046	.8448	11.526	.8483	11.601
.8538	11.064	.8518	11.540	.8552	11.600
.8775	11.079	.8761	11.541	.8795	11.641
.8851	11.099	.8830	11.596	.8865	11.662
39748.8498	10.885	39748.8471	11.309	39748.8512	11.405
.8554	10.876	.8540	11.343	.8568	11.422
.8610	10.901	.8596	11.346	.8630	11.462
.8665	10.903	.8651	11.363	.8686	11.435
.8721	10.911	.8707	11.373	.8741	11.430
.8776	10.937	.8762	11.402	.8790	11.500
.8832	10.927	.8818	11.377	.8846	11.450
.8998	10.960	.8985	11.410	.9012	11.504
.9061	10.968	.9040	11.423	.9082	11.491
.9353	11.021	.9339	11.495	.9366	11.572
.9408	11.021	.9394	11.492	.9422	11.575
.9464	11.034	.9450	11.489	.9485	11.594
.9533	11.033	.9519	11.511	.9547	11.581
.9589	11.042	.9575	11.520	.9603	11.580
.9637	11.045	.9623	11.509	.9658	11.606
.9707	11.026	.9679	11.490	.9728	11.604
.9769	11.046	.9748	11.521	.9797	11.580
.9839	11.054	.9825	11.525	.9853	11.630
.9901	11.040	.9880	11.545	.9915	11.607
.9957	11.063	.9943	11.517	.9971	11.602
39784.8091	10.749	39784.8043	10.508	39784.8126	10.887
.8147	10.775	.8105	10.520	.8175	10.897
.8202	10.793	.8161	10.534	.8230	10.902
.8251	10.843	.8216	10.546	.8279	10.946
39790.7994	11.112	39790.7973	11.571	39790.8014	11.636
.8119	11.121	.8105	11.581	.8159	11.645
.8181	11.135	.8160	11.585	.8195	11.667
.8237	11.128	.8223	11.591	.8257	11.671
.8306	11.136	.8285	11.584	.8320	11.662
.8355	11.164	.8341	11.609	.8376	11.684
.8410	11.167	.8396	11.618	.8424	11.707
.8473	11.184	.8452	11.632	.8487	11.714
.8528	11.181	.8514	11.647	.8542	11.721
.8591	11.191	.8577	11.643	.8605	11.724
.8646	11.180	.8632	11.656	.8667	11.735
.8709	11.196	.8695	11.657	.8723	11.744
.8757	11.213	.8744	11.693	.8778	11.781
.8813	11.208	.8799	11.683	.8827	11.767
.8869	11.237	.8855	11.680	.8889	11.753
.8931	11.208	.8917	11.682	.8945	11.741
.8987	11.213	.8973	11.691	.9001	11.728
.9042	11.221	.9028	11.675	.9056	11.733
.9098	11.177	.9077	11.663	.9112	11.714
.9174	11.220	.9146	11.620	.9188	11.656
.9230	11.143	.9216	11.606	.9244	11.626
.9285	11.085	.9271	11.541	.9313	11.556
.9355	11.033	.9341	11.447	.9369	11.439
39795.7521	11.007	39795.7500	11.512	39795.7541	11.585
.7583	11.013	.7569	11.481	.7604	11.575
.7646	11.026	.7625	11.479	.7659	11.570
.7694	11.018	.7680	11.480	.7715	11.573
.7750	11.040	.7736	11.487	.7764	11.583
.7805	11.040	.7791	11.493	.7819	11.594
.7861	11.053	.7847	11.507	.7875	11.611
.7909	11.040	.7896	11.494	.7930	11.593
.7958	11.043	.7951	11.495	.7993	11.601
.8034	11.045	.8021	11.501	.8048	11.593
.8083	11.055	.8069	11.520	.8104	11.614
.8146	11.077	.8132	11.525	.8159	11.625
.8194	11.084	.8180	11.545	.8215	11.662
.8250	11.082	.8236	11.557	.8264	11.653
.8305	11.103	.8284	11.581	.8319	11.663
.8354	11.111	.8340	11.578	.8368	11.677
.8409	11.116	.8396	11.598	.8423	11.695
.8472	11.119	.8451	11.594	.8486	11.690
.8541	11.123	.8514	11.602	.8555	11.704
.8590	11.129	.8576	11.604	.8604	11.694
.8653	11.140	.8632	11.614	.8666	11.696
.8708	11.155	.8694	11.626	.8729	11.707
.8764	11.140	.8750	11.619	.8778	11.717
.8819	11.149	.8798	11.617	.8833	11.709
.8868	11.153	.8854	11.621	.8889	11.681
.8923	11.138	.8909	11.615	.8937	11.650
.8979	11.112	.8965	11.595	.8993	11.616
.9034	11.095	.9014	11.568	.9048	11.580
.9090	11.062	.9076	11.528	.9104	11.546
.9146	11.015	.9132	11.464	.9166	11.513
39827.6243	11.068	39827.6236	11.501	39827.6257	11.559
.6292	11.079	.6278	11.499	.6306	11.552
.6340	11.069	.6333	11.514	.6354	11.556
.6389	11.077	.6382	11.508	.6403	11.572
.6431	11.075	.6424	11.505	.6445	11.559

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		RV CET			
39827.6479	11.090	39827.6465	11.500	39827.6493	11.544
.6521	11.079	.6507	11.517	.6528	11.560
.6556	11.079	.6549	11.498	.6570	11.542
.6625	11.072	.6590	11.504	.6639	11.542
.6674	11.071	.6660	11.482	.6681	11.527
.6715	11.052	.6701	11.474	.6722	11.509
.6750	11.049	.6743	11.457	.6764	11.481
.6799	11.021	.6792	11.441	.6813	11.469
.6840	11.005	.6833	11.421	.6854	11.459
.6889	11.006	.6875	11.408	.6896	11.411
.6931	10.980	.6917	11.384	.6938	11.391
.6972	10.956	.6958	11.340	.6993	11.365
.7042	10.927	.7028	11.305	.7049	11.319
.7083	10.902	.7070	11.271	.7104	11.260
.7139	10.868	.7125	11.239	.7146	11.249
.7181	10.844	.7174	11.216	.7208	11.209
.7236	10.820	.7229	11.167	.7250	11.174
.7326	10.794	.7313	11.132	.7333	11.163
.7375	10.797	.7361	11.127	.7389	11.167
.7417	10.787	.7410	11.105	.7431	11.145
.7486	10.761	.7472	11.092	.7500	11.122
.7583	10.756	.7570	11.058	.7597	11.103
.7625	10.731	.7618	11.042	.7639	11.078
.7674	10.710	.7660	11.024	.7681	11.067
.7715	10.705	.7701	11.009	.7729	11.057
.7757	10.684	.7743	10.991	.7771	11.038
.7806	10.682	.7792	10.991	.7813	11.033
.7840	10.674	.7833	10.964	.7854	11.046
.7889	10.678	.7875	10.971	.7896	11.037
.7938	10.667	.7917	10.974	.7945	11.026
.7972	10.675	.7965	10.958	.7986	11.028
.8014	10.665	.8007	10.968	.8028	11.027
.8056	10.662	.8049	10.967	.8070	11.044
.8097	10.685	.8090	10.963	.8111	11.048
.8139	10.671	.8132	10.965	.8153	11.041
.8215	10.702	.8174	10.961	.8236	11.042
		RZ CET			
39391.8848	11.260	39391.8820	11.414	39391.8869	11.506
.8896	11.258	.8945	11.393	.8931	11.497
.8952	11.256	.8994	11.413	.8980	11.524
.9008	11.285	.9049	11.445	.9035	11.565
.9063	11.294	.9105	11.459	.9091	11.562
.9119	11.310	.9160	11.493	.9146	11.599
.9174	11.308	.9216	11.535	.9202	11.619
.9230	11.359	.8834	11.558	.9258	11.681
.9271	11.384	.9313	11.606	.9285	11.691
.9327	11.405			.9348	11.706
39746.9155	11.898	39746.9141	12.246	39746.9169	12.354
.9217	11.922	.9203	12.283	.9231	12.407
.9273	11.958	.9259	12.334	.9294	12.453
.9342	12.020	.9328	12.421	.9356	12.638
.9398	12.093	.9384	12.460	.9412	12.614
.9460	12.220	.9446	12.554	.9474	12.687
.9523	12.236	.9509	12.605	.9537	12.731
.9578	12.301	.9565	12.734	.9599	12.846
.9641	12.342	.9627	12.782	.9856	12.874
.9842	12.357	.9828	12.756		
40141.7915	12.042	40141.7902	12.481	40141.7924	12.500
.7954	12.044	.7946	12.466	.7963	12.603
.8000	12.094	.7991	12.500	.8010	12.470
.8033	12.104	.8024	12.522	.8043	12.549
.8074	12.094	.8065	12.486	.8082	12.560
.8108	12.091	.8097	12.495	.8118	12.527
.8141	12.102	.8133	12.601	.8149	12.635
.8172	12.121	.8163	12.525	.8181	12.662
.8206	12.134	.8197	12.503	.8215	12.601
.8242	12.138	.8234	12.575	.8251	12.474
.8277	12.177	.8269	12.530	.8285	12.699
.8340	12.107	.8321	12.539	.8351	12.596
.8397	12.208	.8365	12.634	.8406	12.626
.8445	12.153	.8436	12.640	.8456	12.674
.8490	12.214	.8481	12.562	.8537	12.716
.8529	12.193	.8520	12.486		
40151.7507	11.614	40151.7498	11.715	40151.7517	11.848
.7546	11.667	.7536	11.729	.7555	11.791
.7581	11.641	.7572	11.797	.7593	12.100
.7621	11.516	.7612	11.772	.7639	11.740
.7707	11.669	.7698	11.822	.7717	11.774
.7751	11.609	.7742	11.859	.7760	12.101
.7790	11.547	.7780	11.963	.7800	11.837
.7826	11.649	.7817	11.816	.7878	12.071
.7869	11.663	.7860	11.919	.7914	12.049
.7904	11.662	.7895	11.970	.7954	12.138
.7944	11.675	.7935	11.968	.7990	11.841
.7980	11.668	.7971	12.038	.8028	12.180
.8018	11.698	.8008	11.922	.8064	11.769
.8054	11.673	.8045	11.909	.8100	12.205
.8091	11.737	.8081	12.041	.8178	12.168
.8169	11.688	.8159	12.072	.8215	11.826
.8205	11.685	.8196	12.030	.8261	11.991
.8252	11.850	.8242	12.264	.8312	12.156
.8303	11.804	.8289	12.221	.8414	12.296
.8346	11.816	.8337	12.089	.8553	12.177
.8402	11.711	.8392	12.229	.8601	12.150
.8448	11.619	.8439	12.239	.8723	12.061
.8493	11.835	.8484	12.224	.8764	12.356
.8543	11.935	.8532	12.054	.8839	12.358
.8585	11.875	.8576	12.304	.8880	12.347
.8713	11.949	.8706	12.369	.9003	12.263
.8754	11.873	.8741	12.474	.9040	12.263
.8792	12.054	.8782	12.288		
.8828	12.110	.8819	12.333		
.8871	12.068	.8861	12.489		
.8917	12.053	.8898	12.356		
.8955	11.952	.8945	12.351		
.8992	11.949	.8983	12.416		
.9031	11.870	.9020	12.460		

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		RZ CET			
40157.7605	11.591	40157.7596	11.807	40157.7614	11.764
.7640	11.512	.7631	11.864	.7650	11.929
.7677	11.416	.7666	11.891	.7687	11.880
.7713	11.375	.7703	11.650	.7722	12.304
.7750	11.254	.7739	11.519	.7760	11.506
.7819	11.218	.7810	11.333	.7830	11.365
.7856	11.140	.7846	11.287	.7865	11.612
.7890	11.231	.7881	11.323	.7900	11.373
.7925	11.156	.7916	11.307	.7934	11.571
.7960	11.175	.7951	11.331	.7969	11.746
.8004	11.132	.7996	11.193	.8014	11.192
40180.7245	11.871	40180.7234	12.109	40180.7253	12.170
.7281	11.699	.7272	12.038	.7336	11.847
.7316	11.638	.7308	11.930	.7379	11.735
.7370	11.456	.7360	11.883	.7420	11.685
.7409	11.482	.7400	11.738	.7456	11.743
.7447	11.463	.7438	11.695	.7490	11.617
.7481	11.369	.7473	11.630	.7527	11.693
.7517	11.320	.7508	11.516	.7566	11.701
.7555	11.284	.7547	11.450	.7604	11.674
.7595	11.263	.7586	11.465	.7763	11.632
.7635	11.258	.7626	11.393	.7854	11.662
.7672	11.222	.7663	11.362	.7893	11.701
.7754	11.232	.7706	11.367	.7973	11.601
.7800	11.171	.7784	11.345		
.7845	11.179	.7875	11.374		
.7883	11.186	.7913	11.305		
.7923	11.184	.7952	11.379		
.7963	11.253				
40181.6944	12.068	40181.6935	12.471	40181.7057	12.910
.6979	12.031	.6969	12.431	.7227	12.718
.7014	12.005	.7005	12.444	.7328	12.582
.7048	12.027	.7039	12.427	.7394	12.329
.7083	12.025	.7073	12.444	.7464	12.259
.7117	12.021	.7141	12.406	.7537	12.097
.7219	11.983	.7175	12.484	.7571	12.012
.7252	11.968	.7210	12.360	.7605	11.807
.7286	11.975	.7244	12.337	.7641	11.714
.7319	11.999	.7277	12.337	.7675	11.673
.7351	11.895	.7309	12.368	.7744	11.614
.7385	11.932	.7342	12.370	.7780	11.545
.7419	11.849	.7376	12.308	.7814	11.546
.7455	11.868	.7409	12.245	.7848	11.565
.7489	11.842	.7447	12.282	.7887	11.522
.7528	11.720	.7480	12.201	.8077	11.581
.7562	11.690	.7519	12.122	.8178	11.594
.7597	11.543	.7553	11.956	.8211	11.627
.7632	11.479	.7587	11.884	.8244	11.636
.7666	11.376	.7623	11.747		
.7699	11.350	.7657	11.601		
.7734	11.322	.7691	11.566		
.7771	11.343	.7725	11.530		
.7805	11.307	.7761	11.433		
.7839	11.297	.7796	11.408		
.7878	11.246	.7829	11.434		
.8068	11.254	.7866	11.389		
.8101	11.284	.8060	11.431		
.8135	11.296	.8092	11.407		
.8169	11.367	.8126	11.411		
.8203	11.338	.8159	11.451		
.8236	11.352	.8194	11.471		
		.8227	11.506		
		UU CET			
39390.8351	12.361	39390.8337	12.821	39390.8371	12.805
.8441	12.357	.8420	12.834	.8462	12.792
.8517	12.335	.8496	12.797	.8538	12.793
.8587	12.323	.8573	12.778	.8615	12.797
.8663	12.296	.8642	12.751	.8684	12.745
.8740	12.245	.8719	12.701	.8760	12.652
.8816	12.186	.8788	12.636	.8837	12.517
.8892	12.113	.8871	12.515	.8906	12.414
39418.6828	12.298	39418.6814	12.714	39418.6842	12.786
.6883	12.250	.6869	12.729	.6897	12.787
.6939	12.290	.6925	12.694	.6953	12.875
.7001	12.271	.6981	12.724	.7022	12.832
.7092	12.293	.7064	12.754	.7112	12.837
.7168	12.281	.7147	12.768	.7189	12.824
.7244	12.299	.7224	12.731	.7258	12.788
.7314	12.305	.7293	12.758	.7335	12.795
.7404	12.296	.7383	12.717	.7425	12.719
.7474	12.264	.7453	12.670	.7494	12.699
39836.6514	12.155	39836.6501	12.601	39836.6528	12.624
.6563	12.153	.6556	12.554	.6577	12.655
.6626	12.206	.6612	12.531	.6639	12.637
.6674	12.149	.6660	12.498	.6688	12.664
.6723	12.204	.6709	12.565	.6737	12.622
.6771	12.093	.6757	12.583	.6785	12.731
.6820	12.094	.6806	12.566	.6834	12.636
.6869	12.220	.6855	12.557	.6889	12.595
.6924	12.123	.6910	12.542	.6945	12.591
.6980	12.146	.6966	12.482	.6994	12.664
.7028	12.162	.7014	12.628	.7042	12.533
.7070	12.175	.7063	12.645	.7084	12.657
.7119	12.392	.7112	12.730		
40129.8043	11.727	40129.8031	12.029	40129.8055	12.123
.8092	11.754	.8077	12.018	.8104	12.176
.8140	11.749	.8128	12.037	.8154	12.098
.8186	11.770	.8174	12.066	.8199	12.168
.8231	11.796	.8219	12.068	.8244	12.155
40146.7117	11.450	40146.7108	11.729	40146.7126	11.672
.7164	11.474	.7155	11.892	.7174	11.740
.7198	11.629	.7189	11.798	.7207	11.796
.7232	11.566	.7223	11.773	.7241	11.748
.7267	11.569	.7258	11.776	.7276	11.813
.7303	11.561	.7294	11.855	.7312	12.007

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		UU CET			
40146.7339	11.596	40146.7330	11.o50	40146.7349	11.870
.7376	11.593	.7367	11.839	.7385	11.972
.7411	11.625	.7403	11.868	.7427	11.999
.7454	11.628	.7445	11.868	.7464	12.044
.7491	11.631	.7481	11.855	.7501	12.017
.7527	11.587	.7518	11.900	.7536	12.021
.7563	11.644	.7553	11.915	.7572	11.971
.7608	11.701	.7596	11.890	.7618	11.986
.7646	11.691	.7636	11.939	.7655	12.136
40152.6713	12.252	40152.6704	12.762	40152.6722	12.750
.6753	12.234	.6743	12.726	.6763	12.577
.6792	12.172	.6783	12.697	.6802	12.754
.6829	12.269	.6820	12.676	.6839	12.592
.6865	12.299	.6856	12.647	.6874	13.021
.6901	12.353	.6892	12.650	.6921	12.640
.6947	12.249	.6938	12.637	.6957	12.311
.6983	12.246	.6974	12.554	.6993	12.527
.7020	12.204	.7011	12.455	.7030	12.334
.7056	12.216	.7047	12.548	.7066	12.802
.7093	12.182	.7083	12.479	.7102	12.276
.7131	12.049	.7120	12.590	.7140	12.516
.7166	12.115	.7156	12.488	.7175	12.597
.7211	12.087	.7202	12.418	.7222	12.434
.7247	12.052	.7238	12.402	.7256	12.274
.7281	11.898	.7272	12.453	.7290	12.287
.7315	11.935	.7306	12.289	.7325	12.290
.7375	11.855	.7366	12.205	.7383	12.286
.7411	11.887	.7402	12.170	.7422	12.239
.7455	11.901	.7445	12.213	.7465	12.067
.7492	12.002	.7482	12.080	.7503	12.316
.7531	11.803	.7521	12.172	.7541	12.189
.7570	11.773	.7558	12.114	.7579	12.169
.7606	11.841	.7597	12.050	.7615	12.218
.7642	11.822	.7633	12.017	.7652	12.039
.7681	11.744	.7670	11.983	.7690	12.057
.7718	11.753	.7708	11.953	.7727	12.056
.7755	11.698	.7745	11.997	.7765	12.041
.7792	11.673	.7783	11.931	.7802	12.072
.7828	11.793	.7819	11.892	.7838	11.976
.7870	11.642	.7860	11.893	.7879	11.895
.7908	11.712	.7899	11.944	.7920	11.947
.7947	11.655	.7937	11.909	.7956	11.945
.7983	11.635	.7974	11.920	.7992	11.994
.8020	11.639	.8011	11.869	.8032	11.962
.8060	11.693	.8049	11.937	.8069	12.141
.8108	11.708	.8086	11.896	.8117	12.035
.8145	11.799	.8134	11.979	.8154	11.982
.8186	11.871	.8173	11.860	.8195	11.891
.8222	11.715	.8212	11.974	.8236	12.187
.8263	11.685	.8254	11.983	.8272	12.632
.8300	11.776	.8290	11.931	.8309	12.203
.8336	11.741	.8326	11.978	.8345	12.124
.8374	11.853	.8365	11.986	.8383	11.907
.8412	11.833	.8402	11.993	.8422	12.200
.8448	11.735	.8439	12.047	.8457	11.902
40157.6124	11.699	40157.6114	11.971	40157.6134	12.034
.6164	11.700	.6155	11.928	.6173	11.844
.6198	11.655	.6190	11.951	.6207	11.803
.6232	11.597	.6224	11.887	.6242	11.918
.6269	11.553	.6260	11.840	.6278	11.840
.6303	11.570	.6295	11.954	.6313	11.954
.6338	11.640	.6328	11.958	.6348	11.958
.6373	11.648	.6365	11.798	.6382	11.782
.6407	11.526	.6398	11.745	.6418	11.814
.6443	11.550	.6434	11.794	.6452	11.743
.6478	11.669	.6469	11.819	.6487	11.732
.6514	11.547	.6505	11.778	.6523	11.778
.6548	11.607	.6539	11.857	.6562	11.873
.6588	11.616	.6579	11.894	.6598	11.894
.6623	11.594	.6614	11.887	.6632	11.824
.6659	11.674	.6650	11.897	.6668	11.897
.6710	11.722	.6700	11.948	.6719	11.881
.6745	11.672	.6736	11.904	.6755	12.011
.6782	11.687	.6773	11.953	.6791	11.953
.6817	11.653	.6807	11.950	.6827	11.950
.6853	11.784	.6844	11.968	.6862	11.964
.6888	11.659	.6879	11.967	.6897	12.059
.6923	11.737	.6914	11.737	.6933	11.737
.6964	11.684	.6955	11.976	.6973	11.976
.7000	11.671	.6990	11.997	.7009	11.950
.7035	11.710	.7026	12.025	.7048	12.025
.7073	11.717	.7064	12.026	.7084	11.999
.7146	11.786	.7137	12.119	.7155	12.239
.7180	11.706	.7172	12.059	.7190	12.179
.7219	11.766	.7209	12.030	.7229	12.189
.7255	11.881	.7246	12.138	.7264	12.086
.7290	11.884	.7281	12.160	.7300	12.160
40161.6133	12.175	40161.6124	12.588	40161.6142	12.901
.6169	12.148	.6160	12.563	.6178	12.531
.6203	12.175	.6194	12.494	.6213	12.373
.6241	12.151	.6231	12.604	.6250	11.995
.6276	12.167	.6267	12.585	.6284	12.595
.6309	12.230	.6300	12.634	.6318	12.632
.6344	12.263	.6335	12.525	.6353	12.813
.6380	12.230	.6370	12.614	.6389	12.566
.6415	12.307	.6405	12.580	.6429	12.515
.6455	12.165	.6446	12.647	.6464	12.635
.6489	12.249	.6480	12.580	.6499	12.549
.6524	12.285	.6515	12.642	.6533	13.044
.6558	12.204	.6549	12.701	.6567	12.874
.6593	12.192	.6583	12.503	.6602	13.057
.6631	12.253	.6621	12.572	.6640	12.559
40163.6398	11.902	40163.6388	12.279	40163.6407	12.404
.6434	11.809	.6424	12.160	.6442	12.151
.6467	11.823	.6458	12.116	.6476	12.230
.6502	11.830	.6493	12.111	.6511	12.202
.6536	11.779	.6527	12.028	.6545	12.051
.6570	11.842	.6561	12.078	.6579	12.154
40183.6610	11.731	40183.6599	12.024	40183.6619	12.339
.6645	11.769	.6636	12.048	.6654	12.048
.6679	12.018	.6670	12.015	.6688	12.162
.6714	11.727	.6706	11.958	.6724	12.185
.6750	11.631	.6741	12.058	.6759	12.913
.6784	11.637	.6775	11.913	.6793	11.800
.6818	11.624	.6810	11.911	.6828	12.283
.6858	11.552	.6848	11.901	.6868	12.131
.6895	11.646	.6886	11.869	.6903	11.977
.6929	11.589	.6920	11.798	.6938	11.945
.6995	11.589	.6984	11.899	.7004	11.903
.7040	11.611	.7029	11.804	.7048	11.949
.7094	11.595	.7084	11.848	.7103	11.690
.7129	11.602	.7119	11.648	.7141	11.442
.7173	11.471	.7159	11.761	.7194	11.630
.7225	11.668	.7216	11.956	.7234	12.024
.7259	11.608	.7251	11.956	.7269	11.954
.7295	11.830	.7285	11.926	.7304	12.287
.7329	11.709	.7319	11.888	.7338	12.070
.7377	11.505	.7353	12.012	.7385	11.896
40184.6030	12.162	40184.6001	12.599	40184.6045	12.627
.6074	12.167	.6065	12.622	.6084	12.617
.6110	12.219	.6101	12.590	.6119	12.824
.6144	12.067	.6135	12.636	.6153	12.298
.6177	12.162	.6169	12.506	.6187	12.209
.6212	12.058	.6203	12.573	.6221	12.536
.6278	12.147	.6270	12.515	.6288	12.274
.6313	12.102	.6304	12.609	.6322	12.165
.6347	12.163	.6338	12.591	.6356	12.276
.6381	12.122	.6373	12.597	.6390	12.462
.6415	12.244	.6406	12.660	.6424	12.495
.6448	12.042	.6440	12.621	.6458	12.429
.6483	12.190	.6474	12.575	.6492	12.794
.6520	12.242	.6511	12.579	.6529	12.338
.6554	12.206	.6545	12.667	.6563	12.651
.6589	12.327	.6580	12.284	.6599	12.477
.6624	12.221	.6615	12.739	.6633	13.028
.6659	12.225	.6649	12.649	.6669	12.518
.6692	12.219	.6684	12.491	.6703	12.623
.6728	12.233	.6720	12.614	.6737	12.808
.6763	12.173	.6753	12.620	.6772	12.631
.6800	12.300	.6790	12.558	.6817	12.415
.6844	12.272	.6834	12.555	.6854	12.530
.6880	12.145	.6871	12.596	.6890	13.039
.6915	12.216	.6906	12.662	.6924	12.482
.6950	12.280	.6941	12.607	.6960	12.737
.6986	12.293	.6976	12.655	.6995	13.194
.7021	12.252	.7012	12.570	.7031	12.966
.7056	12.176	.7047	12.599	.7069	12.384
.7096	12.200	.7086	12.551	.7106	12.383
.7131	12.188	.7122	12.528	.7140	12.354
.7165	12.157	.7156	12.627	.7174	12.829
.7201	12.238	.7193	12.584	.7211	12.953
		RV COM			
38882.7118	14.101	38882.7104	14.372	38882.7146	14.351
.7194	14.113	.7173	14.294	.7215	14.590
.7347	14.195	.7326	14.331	.7361	14.499
.7430	14.178	.7410	14.444	.7451	14.717
.7493	14.246	.7472	14.427	.7521	14.476
38911.6766	13.888	38911.6753	14.168	38911.6801	14.429
.6871	13.900	.6843	14.134	.6898	14.315
.7114	13.874	.6996	14.125	.7141	14.185
.7204	13.938	.7093	14.189	.7232	14.297
.7280	13.996	.7176	14.138		
		.7260	14.202		
39215.7459	13.980	39215.7375	14.024	39215.7417	14.382
.7528	14.094	.7445	14.147	.7486	14.391
.7597	13.924	.7514	14.143	.7625	14.227
.7674	13.977	.7584	14.090	.7688	14.225
.7764	13.881	.7653	14.197	.7785	14.284
.7834	14.101	.7750	14.058	.7854	14.235
.7903	14.011	.7813	14.082	.7924	14.319
.7972	13.914	.7882	14.083	.7993	14.068
.8049	14.038	.7959	14.239	.8070	14.152
.8125	13.913	.8028	13.944	.8146	14.317
.8382	13.933	.8104	14.078	.8216	14.140
.8868	14.010	.8174	14.282		
		.8341	14.209		
		.8847	14.350		
39216.8459	13.972	39216.8438	14.198		
.8507	14.208	.8486	14.194		
.8570	14.037	.8556	14.406		
.8813	14.025	.8799	14.528		
.8861	14.180	.8848	14.365		
39618.7476	14.206	39618.7455	14.405	39618.7497	14.425
.7678	14.208	.7657	14.553	.7699	14.630
.7747	14.287	.7726	14.509	.7768	14.649
.7817	14.247	.7796	14.551	.7837	14.595
.7969	14.354	.7949	14.632	.7990	14.714
.8087	14.391	.8074	14.783		
39624.7785	14.329	39624.7765	14.543	39624.7959	14.543
40327.7243	14.234	40327.7235	14.588	40327.7260	14.593
.7287	14.274	.7279	14.526	.7298	14.508
40334.6687	14.056	40334.6675	14.273	40334.6691	14.330
.6727	14.029	.6717	14.387	.6741	14.463
.6768	13.930	.6758	14.283	.6778	14.400
.6885	14.111	.6796	14.362	.6815	14.299
.6844	14.061	.6834	14.257	.6894	14.359
.6885	14.137	.6875	14.357	.6935	14.455
.6924	14.174	.6912	14.286	.6969	14.571
.6965	14.210	.6953	14.386	.7012	14.444
.7003	14.212	.6993	14.415	.7057	14.510
.7044	14.132	.7028	14.443	.7102	14.542
.7091	14.110	.7078	14.363	.7143	14.239
.7133	14.195	.7121	14.378	.7183	14.412
.7173	14.122	.7163	14.432	.7220	14.282

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U	HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
			RV COM						RY COM		
40334.7210	14.115	40334.7200	14.403	40334.7260	14.738	40360.7411	12.813	40360.7403	13.197	40360.7420	13.290
.7246	14.191	.7237	14.461	.7301	14.615	.7463	12.765	.7455	13.151	.7475	13.327
.7292	14.183	.7276	14.572	.7337	14.607	.7500	12.779	.7493	13.140	.7509	13.255
.7327	14.218	.7318	14.590	.7372	14.694	.7531	12.771	.7523	13.103	.7542	13.210
.7362	14.142	.7353	14.561	.7410	14.781	.7569	12.715	.7559	13.265	.7593	13.280
.7401	14.188	.7391	14.583	.7453	14.767	.7626	12.816	.7611	13.245	.7642	13.363
.7441	14.299	.7431	14.625	.7490	14.638	.7693	12.842	.7685	13.190	.7725	13.434
.7480	14.360	.7470	14.526	.7529	14.524	.7810	12.735	.7748	13.244	.7777	13.331
.7519	14.285	.7510	14.578	.7566	14.742	.7871	12.769	.7802	13.154	.7827	13.208
.7557	14.501	.7548	14.575	.7639	14.633			.7847	13.095	.7892	13.213
.7592	14.274	.7583	14.588	.7677	14.634	40367.6567	12.847	40367.6555	13.223	40367.6577	13.301
.7628	14.269	.7618	14.577	.7712	14.706	.6610	12.814	.6600	13.247	.6620	13.331
.7667	14.448	.7658	14.653	.7749	14.606	.6649	12.867	.6639	13.252	.6658	13.294
.7703	14.232	.7694	14.532	.7785	14.535	.6686	12.915	.6675	13.232	.6695	13.241
.7738	14.271	.7728	14.555	.7826	14.552	.6724	12.804	.6713	13.188	.6734	13.232
.7775	14.269	.7765	14.597	.7867	14.532	.6760	12.840	.6751	13.199	.6771	13.294
.7809	14.397	.7801	14.646	.7906	14.011	.6809	12.734	.6800	13.186	.6819	13.191
.7856	14.349	.7883	14.768	.8017	14.060	.6854	12.780	.6835	13.221	.6863	13.197
.7892	14.191	.7994	14.417	.8065	13.779	.6897	12.856	.6885	13.216	.6908	13.321
.8010	14.384	.8541	14.434	.8581	14.214	.6936	12.751	.6925	13.181	.6945	13.344
.8052	14.326	.8598	14.577	.8617	14.128	.6975	12.705	.6964	13.160	.6985	13.302
.8566	14.286	.8633	14.520	.8652	14.139	.7025	12.747	.7015	13.230	.7035	13.356
.8607	14.260	.8668	14.497			.7063	12.870	.7054	13.183	.7074	13.336
40344.7478	13.996	40344.7467	13.986	40344.7487	14.184	.7109	12.839	.7098	13.265	.7119	13.337
.7517	14.087	.7506	13.975	.7526	13.939	.7145	12.883	.7136	13.213	.7154	13.291
.7551	14.010	.7542	13.982	.7644	13.981	.7200	12.851	.7190	13.287	.7209	13.300
.7588	13.713	.7578	14.206	.7718	13.910	.7237	12.743	.7227	13.151	.7248	13.233
.7634	13.977	.7625	13.889	.7754	14.312	.7277	12.827	.7267	13.227	.7286	13.305
.7672	13.876	.7663	13.932	.7792	13.771	.7315	12.811	.7306	13.224	.7325	13.342
.7708	14.078	.7697	14.086	.7829	14.081	.7352	12.778	.7342	13.191	.7361	13.258
.7744	13.649	.7735	14.141	.7862	13.606	.7481	12.815	.7388	13.302	.7410	13.285
.7783	14.053	.7774	14.113	.7897	13.680	.7565	12.800	.7472	13.269	.7491	13.310
.7817	13.834	.7808	14.050	.7939	14.177	.7602	12.856	.7520	13.292	.7539	13.395
.7853	13.627	.7844	14.020			.7640	12.801	.7555	13.288	.7575	13.330
.7888	13.879	.7878	13.948			.7683	12.830	.7592	13.234	.7611	13.236
.7929	13.759	.7915	14.023			.7718	12.855	.7629	13.226	.7650	13.292
40351.6831	14.187	40351.6823	14.377	40351.6968	14.302	.7769	12.836	.7673	13.269	.7692	13.321
.6996	14.135	.6894	14.476	.7005	14.086			.7708	13.319	.7734	13.324
.7031	14.046	.6987	14.352	.7040	14.343			.7756	13.251	.7781	13.267
.7069	14.064	.7023	14.248	.7078	14.081	40380.6850	12.442	40380.6842	12.717	40380.6859	12.868
.7103	13.943	.7058	14.077	.7159	14.202	.6896	12.459	.6887	12.734	.6914	12.949
.7150	13.944	.7095	14.102	.7199	14.368	.6940	12.512	.6932	12.808	.6949	12.979
.7189	13.977	.7131	14.229	.7273	14.461	.6978	12.495	.6968	12.808	.6987	12.972
.7264	14.108	.7180	14.139	.7362	14.358	.7020	12.514	.7006	12.920	.7029	13.019
.7389	14.154	.7255	14.300	.7438	14.320	.7058	12.551	.7049	12.892	.7067	13.030
.7353	13.967	.7287	14.265			.7100	12.523	.7091	12.870	.7110	13.026
.7389	14.197	.7340	14.297			.7144	12.560	.7132	12.924	.7154	13.081
.7430	14.048	.7380	14.294			.7183	12.654	.7174	13.015	.7320	13.192
		.7420	14.352			.7224	12.670	.7210	12.949	.7276	13.069
40357.6784	14.006	40357.6775	14.118	40357.6794	14.231	.7311	12.638	.7294	13.071	.7373	13.146
.6837	13.985	.6829	14.148	.6845	14.178	.7365	12.609	.7355	13.084	.7407	13.163
.6876	13.974	.6867	14.180	.6884	14.304	.7399	12.619	.7391	12.980	.7479	13.209
.6911	13.893	.6903	14.121	.6920	14.194	.7450	12.628	.7427	13.058	.7523	13.248
.6944	13.930	.6936	14.080	.6953	14.203	.7505	12.733	.7496	13.160	.7614	13.198
.6981	13.937	.6973	14.146	.6989	14.238	.7593	12.699	.7585	13.064	.7723	13.243
.7015	13.849	.7007	14.083	.7025	14.120	.7702	12.794	.7693	13.128	.7780	13.285
.7048	13.891	.7039	14.063	.7057	14.192	.7758	12.699	.7750	13.112	.7844	13.331
.7083	13.909	.7073	14.124	.7094	14.228	.7815	12.712	.7806	13.112	.7889	13.253
.7121	13.864	.7113	14.092	.7129	14.144	.7879	12.765	.7868	13.123	.7949	13.320
.7151	13.899	.7144	14.140	.7160	14.269	.7925	12.748	.7911	13.238		
.7185	13.932	.7176	14.188	.7204	14.205						
.7230	13.875	.7220	14.126	.7237	14.162				ST COM		
.7261	13.925	.7252	14.131	.7269	14.263						
.7292	14.011	.7284	14.177	.7301	14.371	39518.9375	11.046	39518.9347	11.277	39518.9389	11.426
.7325	14.001	.7349	14.171	.7333	14.314	.9438	11.050	.9424	11.289	.9451	11.426
.7357	13.957	.7381	14.150	.7365	14.355	.9500	11.087	.9479	11.314	.9521	11.471
.7390	13.956	.7423	14.183	.7398	14.287	.9563	11.078	.9549	11.326	.9583	11.443
.7432	13.967	.7457	14.215	.7441	14.284	.9625	11.119	.9611	11.332	.9639	11.498
.7466	14.023	.7490	14.210	.7475	14.313	.9715	11.123	.9674	11.376	.9729	11.528
.7501	13.992	.7523	14.254	.7510	14.277	.9771	11.159	.9757	11.427	.9785	11.568
.7532	13.989	.7554	14.207	.7540	14.319	.9826	11.157	.9813	11.426	.9847	11.557
.7562	13.951	.7585	14.234	.7570	14.289	.9889	11.187	.9875	11.437	.9903	11.550
.7594	13.989	.7618	14.245	.7603	14.363	.9951	11.205	.9931	11.477	.9972	11.607
.7626	14.033	.7648	14.204	.7634	14.353	39907.8402	11.366	39907.8386	11.781	39907.8421	11.833
.7657	14.071	.7681	14.272	.7664	14.269	.8468	11.381	.8452	11.816	.8483	11.879
.7689	14.097	.7718	14.259	.7697	14.480	.8529	11.379	.8513	11.820	.8545	11.860
.7726	14.019	.7750	14.309	.7736	14.377	.8593	11.378	.8577	11.827	.8609	11.937
.7759	14.091	.7783	14.373	.7767	14.496	.8659	11.393	.8644	11.825	.8675	11.914
.7791	14.155	.7829	14.406	.7806	14.461	.8721	11.384	.8706	11.839	.8735	11.942
.7839	14.095	.7867	14.320	.7849	14.432	.8782	11.427	.8765	11.854	.8798	11.945
.7874	14.164	.7898	14.318	.7882	14.477	.8841	11.421	.8827	11.881	.8855	11.965
.7907	14.127	.7930	14.380	.7916	14.449	.8966	11.434	.8951	11.872	.8983	11.946
.7938	14.154			.7948	14.453	.9036	11.449	.9022	11.883	.9052	11.964
						.9094	11.452	.9079	11.903	.9109	11.993
			RY COM			.9165	11.440	.9150	11.899	.9180	11.910
						.9447	11.519	.9433	11.968	.9461	12.038
39598.7474	12.752	39598.7461	13.121	39598.7488	13.071	.9515	11.520	.9501	11.978	.9529	12.026
.7537	12.688	.7516	13.045	.7551	13.029	.9574	11.526	.9561	11.976	.9589	12.039
.7606	12.556	.7586	12.951	.7620	12.960	39908.9146	11.204	39908.9131	11.567	39908.9161	11.678
.7669	12.475	.7655	12.805	.7690	12.752	.9199	11.268	.9185	11.586	.9215	11.690
.7724	12.404	.7717	12.666	.7738	12.718	.9253	11.293	.9238	11.644	.9274	11.743
.7767	12.281	.7773	12.549	.7801	12.531	.9313	11.311	.9297	11.632	.9327	11.774
.7842	12.148	.7822	12.416	.7856	12.372	.9365	11.417	.9349	11.744	.9381	11.958
.7891	12.034	.7884	12.215	.7905	12.226	.9422	11.615	.9406	11.929	.9437	12.207
.7947	11.889	.7933	12.039	.7961	12.047	.9475	11.827	.9461	12.076	.9488	12.408
.8002	11.754	.7986	11.878	.8016	11.852	39983.6679	11.189	39983.6666	11.463	39983.6700	11.548
.8058	11.680	.8044	11.752	.8072	11.789	.6725	11.185	.6716	11.446	.6734	11.505
.8106	11.690	.8099	11.760	.8120	11.808	.6760	11.134	.6752	11.375	.6769	11.463
.8162	11.708	.8148	11.756	.8169	11.844	.6794	11.114	.6784	11.354	.6802	11.433
.8211	11.742	.8197	11.796	.8224	11.876	.6826	11.057	.6818	11.311	.6835	11.375
.8259	11.760	.8245	11.817	.8273	11.944	.6859	11.036	.6850	11.267	.6868	11.341
.8315	11.796	.8301	11.860	.8329	11.991	.6892	11.017	.6884	11.266	.6902	11.315
.8370	11.839	.8363	11.902	.8384	12.045	.6926	10.924	.6916	11.238	.6971	11.333
160.7137	12.843	40360.7125	13.243	40360.7148	13.359	.6961	10.922	.6952	11.142	.7002	11.331
.7181	12.852	.7171	13.276	.7189	13.360	.6994	10.994	.6986	11.144	.7067	11.281
.7222	12.828	.7205	13.240	.7232	13.357	.7026	10.886	.7018	11.097	.7100	11.360
.7256	12.880	.7248	13.297	.7264	13.395	.7059	10.970	.7050	11.105	.7131	11.289
.7298	12.795	.7289	13.222	.7307	13.327	.7090	10.910	.7082	11.063	.7231	11.403
.7337	12.809	.7328	13.292	.7349	13.297	.7122	10.907	.7114	11.114	.7262	11.393
.7372	12.861	.7363	13.283	.7380	13.373	.7155	10.937	.7147	11.162	.7329	11.384

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		ST COM			
39983.7188	11.015	39983.7179	11.160	39983.7360	11.389
.7222	10.928	.7213	11.086	.7393	11.408
.7253	10.983	.7245	11.173	.7439	11.419
.7284	10.968	.7276	11.160	.7472	11.459
.7317	10.974	.7308	11.158	.7505	11.463
.7352	10.974	.7343	11.183	.7538	11.508
.7384	11.008	.7375	11.214		
.7429	10.998	.7422	11.234		
.7464	11.036	.7456	11.219		
.7496	11.086	.7488	11.295		
.7529	11.078	.7521	11.310		
39999.7088	11.696	39999.7079	12.153	39999.7097	12.230
.7122	11.670	.7113	12.133	.7131	12.197
.7156	11.682	.7146	12.125	.7164	12.249
.7188	11.692	.7180	12.165	.7197	12.296
.7221	11.701	.7212	12.171	.7230	12.227
.7256	11.723	.7247	12.177	.7265	12.241
.7292	11.742	.7284	12.184	.7302	12.248
.7326	11.746	.7317	12.222	.7336	12.259
.7360	11.722	.7351	12.183	.7369	12.285
.7393	11.756	.7384	12.187	.7402	12.306
.7427	11.740	.7418	12.171	.7437	12.301
.7461	11.748	.7452	12.203	.7470	12.290
.7495	11.733	.7485	12.206	.7504	12.306
.7529	11.756	.7520	12.212	.7538	12.260
.7563	11.832	.7554	12.279	.7574	12.361
.7597	11.820	.7589	12.292	.7606	12.380
.7632	11.788	.7622	12.258	.7641	12.320
.7667	11.769	.7658	12.230	.7676	12.342
.7701	11.794	.7693	12.235	.7711	12.356
.7736	11.772	.7727	12.222	.7745	12.277
.7770	11.753	.7761	12.214	.7783	12.273
.7817	11.768	.7808	12.205	.7833	12.237
.7860	11.747	.7851	12.189	.7868	12.306
.7897	11.777	.7885	12.185	.7907	12.205
.7934	11.738	.7925	12.162	.7944	12.224
.7970	11.718	.7960	12.131	.7979	12.175
.8005	11.683	.7995	12.140	.8015	12.127
		BX DEL			
39422.6319	11.879	39422.6298	12.239	39422.6333	12.547
.6375	11.873	.6361	12.215	.6388	12.538
.6430	11.869	.6416	12.209	.6451	12.519
.6500	11.874	.6486	12.219	.6520	12.556
.6576	11.867	.6562	12.211	.6590	12.576
.6750	11.923	.6729	12.297	.6763	12.598
.6812	11.919	.6791	12.261	.6826	12.583
.6875	11.900	.6854	12.229	.6888	12.532
.6937	11.897	.6916	12.235	.6951	12.556
.6993	11.874	.6979	12.224	.7007	12.567
.7055	11.892	.7034	12.219	.7069	12.527
.7111	11.871	.7097	12.244	.7125	12.618
39423.6172	12.289	39423.6152	12.836	39423.6186	13.130
.6228	12.296	.6214	12.826	.6242	13.142
.6304	12.274	.6290	12.804	.6318	13.106
.6360	12.269	.6346	12.790	.6381	13.128
.6422	12.256	.6402	12.768	.6436	13.071
.6554	12.214	.6478	12.718	.6513	13.058
.6617	12.202	.6540	12.693	.6568	13.019
.6846	12.054	.6596	12.670	.6631	12.920
.6908	12.022	.6832	12.480	.6860	12.756
.6964	11.976	.6888	12.464	.6922	12.750
.7020	11.974	.6950	12.398	.6985	12.701
.7096	11.953	.7006	12.333	.7054	12.628
		.7075	12.301	.7110	12.606
40380.8779	12.502	40380.8770	13.159	40380.8788	13.729
.8813	12.485	.8805	13.167	.8822	13.718
.8856	12.503	.8847	13.196	.8865	13.744
.8904	12.488	.8892	13.196	.8913	13.793
.8991	12.498	.8982	13.201	.8999	13.749
.9071	12.535	.9017	13.186	.9033	13.763
.9113	12.528	.9050	13.199	.9122	13.740
.9147	12.504	.9102	13.248	.9157	13.763
.9183	12.488	.9138	13.209	.9191	13.736
.9216	12.515	.9175	13.171	.9224	13.763
.9252	12.547	.9208	13.189	.9262	13.802
.9286	12.543	.9242	13.180	.9296	13.760
.9321	12.590	.9278	13.232	.9330	13.822
.9354	12.571	.9312	13.213	.9362	13.754
.9385	12.509	.9346	13.226	.9395	13.707
.9418	12.576	.9377	13.146	.9427	13.784
.9449	12.561	.9411	13.213	.9458	13.759
.9481	12.566	.9442	13.228	.9489	13.757
.9513	12.552	.9474	13.224	.9521	13.728
.9545	12.588	.9506	13.202	.9556	13.786
.9652	12.566	.9536	13.229	.9661	13.685
		.9645	13.175		
		CK DEL			
40401.8592	12.713	40401.8585	13.245	40401.8638	13.385
.8630	12.714	.8623	13.209	.8669	13.409
.8661	12.649	.8653	13.237	.8701	13.440
.8693	12.684	.8684	13.249	.8733	13.452
.8725	12.720	.8716	13.216	.8767	13.406
.8759	12.701	.8751	13.194	.8804	13.370
.8792	12.665	.8784	13.245	.8835	13.425
.8828	12.659	.8818	13.280	.8888	13.366
.8880	12.709	.8872	13.189	.8919	13.432
.8911	12.730	.8903	13.279	.8949	13.405
.8941	12.701	.8933	13.216	.8987	13.377
.8978	12.648	.8964	13.258	.9033	13.386
.9025	12.705	.9016	13.193	.9064	13.382
.9057	12.722	.9048	13.232	.9099	13.385
.9089	12.706	.9078	13.247	.9133	13.401
.9123	12.709	.9114	13.248	.9171	13.436
.9160	12.733	.9151	13.347	.9204	13.477
.9196	12.729	.9187	13.235	.9237	13.437
40401.9229	12.733	40401.9221	13.287	40401.9271	13.459
.9262	12.756	.9254	13.270	.9382	13.508
.9338	12.785	.9288	13.374	.9415	13.494
.9372	12.787	.9328	13.330	.9453	13.490
.9407	12.755	.9363	13.294	.9487	13.481
.9439	12.816	.9399	13.305	.9519	13.514
.9478	12.800	.9430	13.344	.9555	13.483
.9510	12.812	.9470	13.293	.9592	13.532
.9544	12.824	.9501	13.362	.9626	13.447
.9579	12.795	.9536	13.304		
.9618	12.798	.9571	13.294		
		.9610	13.276		
		UU HYA			
39470.9610	12.676	39470.9596	13.120	39470.9624	13.163
.9665	12.654	.9651	13.096	.9686	13.193
.9728	12.682	.9714	13.108	.9742	13.181
.9783	12.680	.9769	13.119	.9797	13.197
.9839	12.716	.9825	13.087	.9853	13.209
.9894	12.665	.9880	13.134	.9908	13.197
.9957	12.746	.9943	13.138	.9971	13.219
39471.0019	12.742	39471.0005	13.170	39471.0033	13.166
.0068	12.697	.0054	13.161	.0089	13.216
.0130	12.731	.0110	13.120	.0137	13.183
.0179	12.659	.0165	13.110	.0193	13.225
.0235	12.660	.0221	13.070	.0249	13.125
.0290	12.564	.0276	12.987	.0304	12.892
.0346	12.415	.0332	12.798	.0360	12.751
.0401	12.278	.0387	12.671		
39478.8915	12.205	39478.8901	12.492	39478.8936	12.504
.8978	12.107	.8964	12.384	.8999	12.385
.9047	11.982	.9033	12.231	.9068	12.243
.9124	11.886	.9103	12.107	.9144	12.146
.9193	11.833	.9172	12.023	.9214	12.090
.9262	11.792	.9249	11.967	.9276	12.062
.9318	11.788	.9304	11.953	.9332	12.073
.9374	11.794	.9360	11.953	.9387	12.097
.9436	11.795	.9415	11.966	.9464	12.097
.9499	11.812	.9492	11.975	.9512	12.151
		CZ LAC			
39394.7502	10.830	39394.7543	11.215	39394.7571	11.508
.7557	10.819	.7606	11.251	.7640	11.485
.7627	10.767	.7675	11.284	.7710	11.538
.7696	10.764	.7745	11.250	.7786	11.548
.7772	10.768	.7828	11.303	.7863	11.582
.7849	10.852	.7897	11.336	.7946	11.702
.7918	10.859	.7974	11.363	.8015	11.673
.7995	10.878	.8050	11.404	.8085	11.865
.8064	10.943				
39413.6389	11.209	39413.6368	12.000	39413.6410	12.361
.6473	11.210	.6445	12.028	.6493	12.408
.6556	11.225	.6535	12.046	.6584	12.461
.6639	11.230	.6618	12.028	.6660	12.495
.6723	11.231	.6702	12.030	.6743	12.480
.6806	11.253	.6778	12.043	.6827	12.476
.6889	11.262	.6862	12.104	.6910	12.473
.6966	11.239	.6945	12.107	.6993	12.440
.7049	11.254	.7028	12.056	.7070	12.381
.7125	11.187	.7105	11.965	.7146	12.157
.7209	11.004	.7188	11.709	.7230	11.913
40146.6285	10.764	40146.6357	11.167	40146.6297	11.446
.6366	10.797	.6402	11.195	.6381	11.489
.6417	10.872	.6442	11.263	.6426	11.552
.6453	10.938	.6484	11.349	.6463	11.646
.6492	10.916	.6519	11.402	.6501	11.635
.6530	10.870	.6557	11.412	.6539	11.605
.6567	10.948	.6592	11.443	.6576	11.721
.6601	10.996	.6627	11.438	.6611	11.795
.6635	11.038			.6644	11.828
		ST LEO			
39509.9101	11.725	39509.9087	12.090	39509.9107	12.073
.9142	11.561	.9128	11.950	.9149	11.902
.9177	11.419	.9163	11.767	.9184	11.685
.9212	11.300	.9198	11.581	.9219	11.528
.9239	11.199	.9232	11.441	.9253	11.445
.9274	11.067	.9267	11.293	.9281	11.302
.9309	10.941	.9302	11.122	.9316	11.135
.9344	10.860	.9337	10.975	.9351	11.011
.9378	10.804	.9364	10.889	.9385	10.952
.9406	10.762	.9399	10.843	.9420	10.910
.9441	10.755	.9434	10.822	.9455	10.914
.9476	10.767	.9469	10.831	.9482	10.921
.9510	10.772	.9496	10.824	.9517	10.950
.9538	10.790	.9531	10.844	.9545	10.979
.9580	10.823	.9566	10.880	.9587	11.011
39877.8624	11.856	39877.8607	12.329	39877.8642	12.252
.8694	11.898	.8687	12.297	.8708	12.408
.8756	11.858	.8742	12.249	.8788	12.379
.8833	11.807	.8812	12.278	.8843	12.381
.8889	11.879	.8868	12.348	.8902	12.392
.8941	11.900	.8923	12.294	.8955	12.477
.9014	11.913	.8982	12.351	.9024	12.471
.9069	11.941	.9048	12.319	.9076	12.413
.9118	11.959	.9097	12.364	.9132	12.551
.9180	11.989	.9166	12.394	.9191	12.483
.9229	11.997	.9215	12.481	.9240	12.502
.9278	12.039	.9264	12.403	.9292	12.598
.9326	11.980	.9313	12.453	.9344	12.491
.9382	11.964	.9368	12.431	.9396	12.487
.9431	11.931	.9417	12.368	.9444	12.613
.9479	11.864	.9465	12.383	.9493	12.466
.9528	11.832	.9514	12.235	.9542	12.289
.9576	11.643	.9563	12.082	.9594	11.911
.9730	11.112	.9716	11.429	.9743	11.403

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		ST LEO			
39888.8735	11.902	39888.8721	12.272	39888.8755	12.360
.8792	11.889	.8778	12.300	.8807	12.357
.8843	11.902	.8829	12.309	.8857	12.376
.8892	11.927	.8878	12.354	.8906	12.465
.8946	11.968	.8928	12.360	.8963	12.414
.8999	11.986	.8985	12.399	.9013	12.468
.9051	11.975	.9036	12.409	.9065	12.486
.9101	11.990	.9086	12.433	.9115	12.499
.9152	12.020	.9137	12.457	.9167	12.585
.9201	12.026	.9187	12.461	.9215	12.509
.9251	12.024	.9237	12.462	.9265	12.539
.9307	12.002	.9292	12.413	.9322	12.429
.9358	11.966	.9345	12.332	.9373	12.380
.9458	11.797	.9444	12.218	.9473	12.142
.9569	11.355	.9553	11.690	.9583	11.543
.9620	11.227	.9605	11.496	.9635	11.366
		SZ LEO			
39556.6880	12.520	39556.6866	12.911	39556.6894	12.864
.6936	12.467	.6922	12.843	.6950	12.812
.6991	12.388	.6977	12.763	.7005	12.725
.7047	12.285	.7033	12.658	.7061	12.622
.7102	12.213	.7088	12.529	.7116	12.533
.7158	12.130	.7144	12.409	.7172	12.451
.7207	12.051	.7193	12.358	.7220	12.355
.7262	12.015	.7248	12.260	.7276	12.337
.7311	11.965	.7297	12.205	.7325	12.298
.7359	11.915	.7345	12.153	.7380	12.244
.7415	11.908	.7401	12.133	.7429	12.263
.7470	11.909	.7457	12.121	.7484	12.227
.7526	11.922	.7512	12.098	.7547	12.244
.7582	11.923	.7568	12.124	.7595	12.231
.7637	11.921	.7623	12.131	.7651	12.264
.7693	11.934	.7679	12.131	.7707	12.269
.7748	11.924	.7734	12.146	.7762	12.293
.7797	11.955	.7783	12.170	.7811	12.301
.7852	11.976	.7838	12.191	.7866	12.321
39590.6904	12.715	39590.6890	13.133	39590.6918	13.208
.7022	12.722	.7008	13.156	.7036	13.216
.7085	12.734	.7064	13.183	.7099	13.249
.7133	12.740	.7119	13.206	.7210	13.281
.7244	12.755	.7182	13.210	.7258	13.266
.7300	12.766	.7230	13.221	.7314	13.291
.7349	12.766	.7286	13.234	.7362	13.292
.7397	12.772	.7335	13.257	.7411	13.291
.7446	12.784	.7383	13.250	.7460	13.303
.7501	12.767	.7432	13.267	.7515	13.326
.7550	12.802	.7487	13.241	.7564	13.319
.7605	12.779	.7536	13.263	.7619	13.314
.7661	12.810	.7592	13.239	.7675	13.291
.7710	12.762	.7647	13.257	.7724	13.282
.7765	12.784	.7696	13.252	.7828	13.266
.7814	12.751	.7751	13.224	.7883	13.225
.7869	12.769	.7800	13.213	.7939	13.237
.7925	12.772	.7855	13.211	.7987	13.233
.7974	12.742	.7911	13.176	.8043	13.183
.8029	12.732	.7960	13.157	.8099	13.146
.8085	12.739	.8015	13.165	.8147	13.169
.8133	12.729	.8071	13.138	.8210	13.140
.8196	12.733	.8119	13.142	.8258	13.156
.8244	12.692	.8175	13.121	.8314	13.130
.8300	12.662	.8230	13.125		
.8355	12.647	.8286	13.083		
		.8342	13.104		
		AA LEO			
39596.6217	12.038	39596.6203	12.284	39596.6231	12.198
.6266	11.945	.6259	12.158	.6287	12.143
.6328	11.853	.6308	12.047	.6335	12.059
.6370	11.788	.6356	11.951	.6377	11.999
.6405	11.673	.6398	11.861	.6412	11.913
.6440	11.652	.6433	11.764	.6453	11.842
.6481	11.638	.6474	11.736	.6488	11.835
.6523	11.621	.6509	11.705	.6537	11.820
.6572	11.613	.6558	11.715	.6585	11.801
.6620	11.634	.6606	11.725	.6634	11.844
.6669	11.643	.6655	11.745	.6683	11.863
.6717	11.700	.6703	11.772	.6731	11.915
.6766	11.696	.6752	11.803	.6787	11.953
.6815	11.730	.6808	11.847	.6828	12.024
.6947	11.783	.6933	11.919	.6960	12.052
.6988	11.789	.6981	11.940		
39624.6524	12.692	39624.6510	13.106	39624.6545	13.157
.6586	12.712	.6565	13.127	.6600	13.204
.6649	12.762	.6628	13.135	.6663	13.205
.6711	12.744	.6697	13.150	.6732	13.248
.6795	12.759	.6774	13.191	.6808	13.256
.6864	12.808	.6843	13.233	.6878	13.275
.6927	12.812	.6913	13.234	.6947	13.306
.6996	12.829	.6975	13.236	.7017	13.276
.7065	12.836	.7045	13.245	.7079	13.321
.7135	12.802	.7114	13.215	.7156	13.256
.7197	12.757	.7183	13.222	.7218	13.193
.7267	12.749	.7253	13.144	.7288	13.193
.7336	12.673	.7315	13.084	.7357	13.072
.7399	12.569	.7385	12.959		
		UX LYR			
40357.8754	15.273	40357.8687	15.943	40357.8714	16.180
.8802	15.247	.8741	15.708	.8767	15.778
.8851	15.527	.8789	15.800	.8820	15.799
.8902	15.384	.8838	15.937	.8864	16.718
.8960	15.293	.8885	15.799	.8923	15.852
.9089	15.137	.8948	15.783	.8978	16.232
.9136	15.244	.9010	15.969	.9052	16.282
.9193	15.405	.9076	15.794	.9102	15.842

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		UX LYR			
40357.9252	15.416	40357.9123	15.727	40357.9152	15.690
.9303	15.557	.9179	15.868	.9205	16.471
.9354	15.572	.9239	15.804	.9266	15.851
.9425	15.321	.9290	15.824	.9317	16.296
.9482	15.565	.9341	15.945	.9367	16.126
.9630	15.487	.9412	15.824	.9443	15.740
		.9464	16.041	.9494	16.332
		.9537	15.998	.9564	16.615
		.9594	15.780	.9642	16.478
40381.8625	14.678	40381.8605	14.863	40381.8640	14.904
.8677	14.594	.8664	14.756	.8689	14.792
.8737	14.491	.8709	14.641	.8758	14.741
.8794	14.483	.8782	14.560	.8809	14.699
.8846	14.459	.8831	14.590	.8859	14.829
.8892	14.468	.8879	14.586	.8933	14.876
.8970	14.478	.8955	14.640	.8983	14.860
.9023	14.553	.9007	14.676	.9036	14.855
.9250	14.679	.9238	14.777	.9263	14.948
		FN LYR			
39414.6028	12.405	39414.6000	12.627	39414.6049	12.777
.6104	12.477	.6083	12.666	.6125	12.864
.6188	12.527	.6160	12.762	.6208	12.921
.6264	12.595	.6243	12.803	.6285	12.956
.6340	12.604	.6319	12.843	.6361	13.047
.6417	12.634	.6396	12.914	.6438	13.073
.6493	12.669	.6472	12.964	.6514	13.132
.6569	12.694	.6549	13.009	.6590	13.136
39415.5833	11.943	39415.5819	12.114	39415.5847	12.276
.5895	11.982	.5875	12.082	.5916	12.243
.5972	11.965	.5951	12.107	.5993	12.278
.6041	12.022	.6027	12.156	.6062	12.344
.6125	12.060	.6104	12.191	.6145	12.430
.6201	12.133	.6180	12.277	.6222	12.508
39416.6159	12.414	39416.6138	12.850	39416.6180	12.718
.6235	12.204	.6214	12.509	.6249	12.482
.6305	12.038	.6284	12.270	.6326	12.278
.6388	11.930	.6367	12.073	.6402	12.187
.6457	11.912	.6444	12.058	.6485	12.199
.6541	11.972	.6520	12.101	.6562	12.287
.6617	12.036	.6596	12.110	.6631	12.325
40386.8887	13.078	40386.8873	13.540	40386.8898	13.656
.8924	13.082	.8916	13.541	.8932	13.675
.8957	13.097	.8948	13.526	.8964	13.642
.8987	13.101	.8979	13.611	.8995	13.690
.9018	13.121	.9010	13.588	.9027	13.646
.9050	13.140	.9041	13.609	.9068	13.656
.9102	13.050	.9082	13.552	.9110	13.694
.9159	13.118	.9124	13.596	.9168	13.739
.9193	13.121	.9185	13.577	.9203	13.619
.9226	13.105	.9211	13.618	.9234	13.661
.9256	13.084	.9248	13.587	.9264	13.638
.9286	13.079	.9278	13.573	.9293	13.610
.9318	13.104	.9302	13.611	.9326	13.656
.9349	13.081	.9341	13.550	.9357	13.628
.9379	13.091	.9372	13.513	.9388	13.601
.9409	13.110	.9402	13.530	.9418	13.594
.9440	13.054	.9432	13.542	.9449	13.539
.9472	13.049	.9463	13.515	.9479	13.523
.9502	13.074	.9494	13.547	.9511	13.608
.9533	13.069	.9525	13.536	.9541	13.571
.9563	13.095	.9555	13.529	.9575	13.591
.9597	13.102	.9589	13.557	.9606	13.584
.9644	13.108	.9636	13.530	.9652	13.611
.9675	13.138	.9666	13.546	.9683	13.682
.9709	13.128	.9700	13.551	.9730	13.591
40402.7627	13.118	40402.7618	13.493	40402.7636	13.653
.7663	13.171	.7654	13.511	.7670	13.572
.7706	13.137	.7698	13.582	.7715	13.634
.7746	13.151	.7738	13.553	.7754	13.567
.7777	13.129	.7768	13.596	.7784	13.651
.7806	13.152	.7798	13.574	.7816	13.650
.7841	13.152	.7832	13.584	.7850	13.681
.7872	13.136	.7864	13.636	.7881	13.760
.7904	13.165	.7896	13.609	.7911	13.701
.7935	13.182	.7927	13.649	.7944	13.711
.7968	13.199	.7959	13.662	.7977	13.751
.8000	13.207	.7992	13.657	.8009	13.738
.8033	13.239	.8025	13.678	.8104	13.699
.8095	13.222	.8088	13.675	.8136	13.768
.8127	13.238	.8119	13.711	.8170	13.741
.8161	13.228	.8152	13.698	.8213	13.772
.8205	13.210	.8186	13.711	.8252	13.756
.8245	13.211	.8236	13.668	.8284	13.786
.8277	13.237	.8268	13.624	.8317	13.630
.8309	13.156	.8301	13.570	.8359	13.841
.8352	13.211	.8344	13.630	.8394	13.460
.8386	13.012	.8378	13.453	.8425	13.343
.8418	12.910	.8409	13.304	.8467	13.125
.8459	12.762	.8452	13.206	.8502	13.041
.8493	12.739	.8486	13.172		
		LX LYR			
39391.6338	12.858	39391.6324	13.029	39391.6365	13.171
.6421	12.932	.6400	13.094	.6449	13.497
.6497	12.974	.6483	13.186	.6518	13.315
.6574	12.977	.6553	13.200	.6594	13.393
.6657	13.001	.6629	13.268	.6678	13.601
.6733	12.995	.6713	13.343	.6754	13.409
.6803	13.046	.6782	13.399	.6824	13.593
.6879	13.131	.6858	13.433	.6900	13.530
.6956	13.109	.6935	13.415	.6976	13.499
.7032	13.202	.7011	13.554	.7046	13.666

TABLE 1 (CONTINUED)

V452 OPH

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
39622.7943	12.578	39622.7929	13.150	39622.7957	13.377
.8012	12.571	.7998	13.181	.8026	13.341
.8109	12.632	.8088	13.219	.8123	13.429
.8158	12.612	.8144	13.210	.8172	13.438
.8220	12.634	.8207	13.213	.8234	13.415
.8269	12.580	.8255	13.184	.8283	13.364
.8325	12.578	.8311	13.181	.8338	13.302
.8380	12.510	.8366	13.119	.8394	13.265
.8422	12.456	.8415	13.056	.8429	13.181
.8561	12.113	.8547	12.600	.8568	12.642
.8595	12.036	.8588	12.528	.8609	12.657
.8644	12.040	.8630	12.478	.8658	12.626
.8686	11.966	.8672	12.397	.8700	12.588
.8734	11.879	.8720	12.292	.8748	12.479
.8783	11.808	.8769	12.199	.8797	12.414
.8832	11.741	.8818	12.116	.8845	12.293
.8880	11.689	.8866	12.068	.8887	12.264
.8922	11.700	.8908	12.026	.8936	12.254
.8970	11.715	.8957	12.010	.8984	12.283
.9019	11.705	.9005	12.028	.9026	12.291
.9061	11.709	.9047	12.054	.9075	12.323
.9109	11.756	.9095	12.077	.9123	12.345
.9158	11.763	.9144	12.105	.9172	12.380
.9200	11.776	.9193	12.126	.9207	12.445

V784 OPH

39625.8513	12.914	39625.8499	13.445	39625.8526	13.648
.8561	12.892	.8547	13.450	.8575	13.671
.8610	12.912	.8596	13.471	.8631	13.615
.8665	12.902	.8651	13.511	.8679	13.671
.8721	12.942	.8707	13.518	.8742	13.688
.8783	12.941	.8763	13.502	.8804	13.698
.8908	12.962	.8895	13.522	.8929	13.630
.8978	12.939	.8964	13.474	.8992	13.647
.9033	12.925	.9020	13.478	.9047	13.637
.9193	12.804	.9179	13.349	.9207	13.453
.9249	12.760	.9235	13.272	.9263	13.362
.9304	12.658	.9290	13.144	.9318	13.239
.9360	12.540	.9346	13.015	.9374	13.068
.9408	12.416	.9395	12.874	.9422	12.887
.9464	12.312	.9450	12.706	.9478	12.732
.9520	12.231	.9506	12.585	.9533	12.675
.9568	12.149	.9554	12.514	.9582	12.609
.9631	12.070	.9617	12.382	.9645	12.536
.9679	11.982	.9665	12.295	.9693	12.415
.9735	11.924	.9721	12.197	.9749	12.361
.9783	11.873	.9770	12.135	.9797	12.324
.9839	11.852	.9825	12.101		
40358.8609	12.887	40358.8599	13.446	40358.8621	13.612
.8646	12.882	.8637	13.410	.8656	13.616
.8687	12.971	.8674	13.544	.8695	13.699
.8721	12.952	.8713	13.536	.8732	13.650
.8763	12.943	.8775	13.508	.8791	13.649
.8819	12.898	.8809	13.425	.8829	13.565
.8862	12.933	.8854	13.506	.8871	13.624
.8899	12.928	.8890	13.482	.8907	13.613
.8933	12.883	.8925	13.422	.8941	13.560
.8967	12.856	.8959	13.408	.8977	13.531
.9010	12.800	.9002	13.320	.9018	13.477
.9047	12.722	.9039	13.247	.9057	13.394
.9082	12.713	.9073	13.213	.9095	13.349
.9121	12.669	.9112	13.176	.9130	13.302
.9155	12.582	.9147	13.053	.9164	13.171
.9188	12.554	.9180	13.013	.9197	13.143
.9232	12.441	.9223	12.947	.9240	13.021
.9267	12.383	.9259	12.799	.9276	12.921
.9305	12.289	.9296	12.711	.9314	12.824
.9337	12.155	.9330	12.525	.9347	12.641
.9375	12.066	.9367	12.401	.9384	12.518
.9416	11.978	.9405	12.314	.9424	12.469
.9450	11.908	.9441	12.189	.9458	12.386
.9485	11.888	.9473	12.156	.9495	12.362
.9523	11.833	.9514	12.150	.9533	12.312
.9564	11.852	.9555	12.099	.9572	12.373
.9695	11.857	.9589	12.132	.9619	12.374
.9727	11.866	.9634	12.112	.9670	12.348
.9766	11.975	.9686	12.105	.9703	12.373
		.9719	12.127	.9736	12.433
		.9757	12.230	.9775	12.440
40379.7662	12.859	40379.7652	13.439	40379.7671	13.613
.7697	12.868	.7688	13.407	.7707	13.645
.7732	12.783	.7724	13.382	.7750	13.488
.7830	12.868	.7775	13.477	.7838	13.605
.7864	12.819	.7822	13.406	.7872	13.544
.7899	12.902	.7856	13.422	.7944	13.541
.7935	12.900	.7889	13.414	.8165	13.467
.7990	12.818	.7926	13.364	.8213	13.554
.8204	12.773	.7978	13.318	.8413	13.662
.8317	12.921	.8195	13.407	.8559	14.080
.8376	13.462	.8316	13.379	.8660	13.555
.8550	13.045	.8682	13.403	.8719	13.443
.8638	12.948	.8775	13.374	.8797	13.530
.8693	12.905	.8829	13.463	.8969	13.511
.8786	12.827	.8950	13.295	.9040	13.505
.8837	12.879	.9021	13.300	.9090	13.533
.8960	12.897	.9063	13.350	.9142	13.433
.9031	12.741	.9121	13.395	.9267	13.423
.9076	12.893	.9167	13.375		
.9132	12.727				
.9187	12.801				

AO PEG

39415.6908	13.155	39415.6887	13.683	39415.6929	13.766
.6985	13.163	.6964	13.675	.7012	13.821
.7068	13.148	.7047	13.675	.7089	13.800
.7144	13.168	.7123	13.681	.7165	13.763
.7221	13.161	.7200	13.659	.7248	13.800
.7304	13.164	.7283	13.670	.7332	13.774
.7394	13.147	.7373	13.638	.7415	13.727
.7471	13.167	.7450	13.647	.7491	13.796
.7547	13.197	.7526	13.685	.7575	13.773
.7630	13.136	.7610	13.669	.7658	13.823
.7748	13.112	.7728	13.617	.7769	13.705
.7880	13.137	.7860	13.629	.7901	13.782
39745.6912	13.099	39745.6891	13.621	39745.6932	13.775
.7342	13.171	.7321	13.597	.7363	13.622
.7523	13.124	.7509	13.554	.7550	13.683
.7599	13.159	.7585	13.610	.7620	13.705
40141.7001	12.759	40141.6993	13.040	40141.7010	13.189
.7058	12.823	.7050	13.137	.7067	13.189
.7102	12.829	.7094	13.117	.7144	13.282
.7136	12.822	.7128	13.233	.7222	13.151
.7175	12.841	.7162	13.157	.7292	13.299
.7244	12.795	.7199	13.155	.7326	13.334
.7317	12.833	.7236	13.223		
		.7272	13.250		
		.7308	13.207		
40145.6426	12.940	40145.6405	13.488	40145.6440	13.110
.6479	13.083	.6468	13.253	.6488	13.155
.6613	12.980	.6600	13.432	.6622	13.881
.6899	12.971	.6889	13.509	.6909	13.451
.6949	12.930	.6938	13.210	.6957	13.210
.7033	12.672	.7088	13.240	.7131	13.443
.7102	12.771				
40150.6292	13.095	40150.6283	13.412	40150.6302	13.573
.6331	13.142	.6322	13.595	.6341	13.778
.6369	12.987	.6360	13.628	.6378	13.189
.6413	13.056	.6404	13.799	.6422	13.830
.6447	13.113	.6438	13.578	.6456	13.456
.6482	12.927	.6472	13.699	.6492	13.444
.6519	12.981	.6509	13.737	.6577	13.746
.6568	12.980	.6559	13.795	.6612	13.134
.6604	13.128	.6594	13.908	.6647	13.214
.6638	13.139	.6629	13.614	.6731	13.432
.6676	12.748	.6667	13.660	.6780	12.984
.6771	11.829	.6713	13.659	.6835	13.710
.6827	12.238	.6817	13.619	.6908	12.392
.6899	13.056	.6890	13.731		
40151.6042	12.845	40151.5990	13.106	40151.6011	13.610
.6081	12.902	.6033	12.996	.6052	12.871
.6119	12.786	.6072	13.256	.6090	13.429
.6162	12.942	.6109	13.182	.6129	13.230
.6203	13.001	.6152	13.092	.6171	13.708
.6240	12.784	.6194	13.215	.6213	13.204
.6279	12.897	.6231	13.381	.6250	13.121
.6327	12.923	.6270	13.274	.6288	13.521
.6370	13.068	.6316	13.531	.6336	13.660
.6420	12.889	.6360	13.382	.6379	13.433
.6457	13.268	.6411	13.499	.6429	13.402
.6501	13.204	.6447	13.536	.6466	12.942
.6547	12.822	.6491	13.378	.6511	13.374
.6595	13.041	.6538	13.679	.6604	13.257
.6640	12.918	.6585	13.373	.6695	13.216
.6685	12.996	.6630	13.464	.6793	13.598
.6783	13.123	.6675	13.633	.6845	13.157
.6826	13.232	.6774	13.259	.6988	13.485
.6875	13.082	.6816	13.231		
.6977	13.009	.6864	13.538		
.7021	13.256	.6967	13.362		
		.7011	13.293		
40155.6438	13.093	40155.6430	13.469	40155.6448	13.777
.6474	12.972	.6465	13.628	.6485	13.701
.6510	13.100	.6501	13.590	.6520	13.280
.6546	13.078	.6536	13.703	.6555	13.191
.6580	12.987	.6569	13.528	.6589	13.456
.6615	13.055	.6605	13.365	.6624	13.124
.6650	13.127	.6640	13.586	.6843	13.485
.6685	13.172	.6676	13.596	.6881	13.531
.6719	13.141	.6711	13.438	.6918	13.397
.6765	13.021	.6750	13.548	.6953	13.500
.6833	13.120	.6825	13.309	.7040	13.624
.6872	13.203	.6862	13.446	.7078	13.356
.6908	13.328	.6899	13.492	.7118	13.398
.6944	13.192	.6935	13.521	.7206	13.286
.6983	13.137	.6972	13.444	.7242	13.888
.7030	13.168	.7021	13.563	.7278	13.896
.7069	13.339	.7059	13.596	.7314	13.733
.7108	13.009	.7099	13.665		
.7145	13.130	.7135	13.738		
.7187	13.224	.7178	13.553		
.7233	13.094	.7224	13.641		
.7267	13.217	.7259	13.770		
.7305	13.247	.7294	13.633		

BP PEG

39414.6910	11.997	39414.6889	12.332	39414.6931	12.594
.6979	12.059	.6966	12.423	.7007	12.617
.7056	12.112	.7042	12.470	.7077	12.686
.7132	12.149	.7111	12.508	.7153	12.757
.7209	12.157	.7188	12.557	.7229	12.743
.7285	12.179	.7264	12.579	.7306	12.777
.7361	12.176	.7341	12.589	.7389	12.714
.7438	12.165	.7417	12.549	.7459	12.698
.7514	12.066	.7493	12.460	.7535	12.515
.7591	11.914	.7570	12.297	.7611	12.351
39416.6874	12.093	39416.6860	12.483	39416.6895	12.630
.6957	12.114	.6936	12.508	.6978	12.720
.7034	12.153	.7013	12.549	.7055	12.740
.7110	12.119	.7089	12.539	.7124	12.673
.7180	12.064	.7166	12.467	.7200	12.527
.7256	11.909	.7235	12.290	.7277	12.328
.7332	11.706	.7311	12.013	.7346	12.128
.7416	11.692	.7395	11.924	.7436	12.171
.7492	11.768	.7471	11.975	.7513	12.257

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		BP PEG			
39416.7568	11.847	39416.7548	12.114	39416.7589	12.380
.7645	11.932	.7624	12.226	.7666	12.462
		RY PSC			
39422.7561	11.921	39422.7547	12.139	39422.7582	12.235
.7623	11.858	.7602	12.062	.7644	12.165
.7686	11.826	.7665	12.011	.7700	12.144
.7741	11.814	.7727	12.018	.7762	12.151
.7804	11.845	.7790	12.018	.7825	12.177
.7866	11.873	.7852	12.047	.7887	12.202
.7929	11.879	.7915	12.080	.7943	12.214
.7998	11.876	.7970	12.133	.8019	12.250
.8068	11.947	.8047	12.154	.8082	12.317
.8130	11.978	.8109	12.183	.8144	12.353
39789.8338	12.363	39789.8324	12.753	39789.8358	12.874
.8400	12.142	.8379	12.539	.8414	12.393
.8449	11.961	.8435	12.292	.8463	12.189
39795.6105	12.684	39795.6077	13.126	39795.6126	13.207
.6175	12.706	.6154	13.139	.6188	13.223
.6230	12.735	.6209	13.144	.6251	13.237
.6300	12.700	.6279	13.162	.6313	13.154
.6362	12.671	.6341	13.110	.6376	13.134
.6411	12.632	.6397	13.072	.6431	13.105
.6473	12.571	.6459	12.979	.6487	12.994
.6529	12.476	.6515	12.902	.6543	12.846
.6598	12.347	.6577	12.750	.6619	12.703
.6661	12.166	.6640	12.555	.6675	12.445
.6716	11.950	.6702	12.279	.6806	12.026
.6786	11.738	.6772	12.016		
		SS PSC			
39391.7603	10.840	39391.7589	11.156	39391.7623	11.320
.7658	10.824	.7644	11.115	.7672	11.306
.7714	10.826	.7700	11.098	.7728	11.286
.7769	10.825	.7755	11.073	.7783	11.251
.7818	10.795	.7804	11.049	.7832	11.282
.7867	10.781	.7853	11.051	.7880	11.200
.7915	10.780	.7901	11.022	.7929	11.235
.7964	10.799	.7957	11.033	.7978	11.276
.8054	10.785	.8040	11.053	.8068	11.249
.8110	10.808	.8096	11.053	.8117	11.271
.8165	10.826	.8144	11.076	.8179	11.280
.8214	10.845	.8200	11.111	.8228	11.327
.8262	10.848	.8255	11.157	.8283	11.343
.8332	10.886	.8318	11.179	.8346	11.409
39479.6933	11.144	39479.6919	11.511	39479.6947	11.708
.6988	11.165	.6975	11.533	.7002	11.728
.7051	11.178	.7037	11.528	.7065	11.723
.7107	11.216	.7093	11.551	.7127	11.779
.7169	11.140	.7155	11.549	.7183	11.752
.7225	11.156	.7211	11.531	.7238	11.748
.7280	11.154	.7266	11.528	.7294	11.710
.7363	11.150	.7350	11.540	.7377	11.744
.7475	11.151	.7461	11.508	.7488	11.729
.7530	11.122	.7516	11.495	.7544	11.715
.7586	11.093	.7572	11.450	.7600	11.643
		BF SER			
39998.6840	11.785	39998.6831	12.070	39998.6851	11.971
.6876	11.664	.6867	11.897	.6885	11.840
.6910	11.578	.6902	11.756	.6920	11.741
.6947	11.477	.6938	11.666	.6957	11.615
.6983	11.401	.6974	11.564	.6992	11.548
.7018	11.371	.7009	11.468	.7027	11.466
.7053	11.300	.7043	11.395	.7062	11.387
.7089	11.240	.7080	11.328	.7099	11.380
.7124	11.201	.7115	11.279	.7133	11.257
.7158	11.189	.7149	11.215	.7167	11.202
.7193	11.136	.7184	11.194	.7202	11.152
.7226	11.110	.7217	11.175	.7235	11.156
.7260	11.111	.7251	11.173	.7268	11.146
.7293	11.103	.7285	11.165	.7303	11.139
.7329	11.111	.7320	11.221	.7409	11.108
.7363	11.073	.7354	11.160	.7448	11.124
.7400	11.115	.7392	11.238	.7481	11.081
.7439	11.037	.7428	11.134	.7516	11.082
.7472	11.039	.7464	11.228	.7551	11.111
.7507	11.114	.7498	11.100	.7621	11.108
.7542	11.045	.7533	11.119	.7657	11.153
.7576	11.079	.7567	11.221	.7690	11.159
.7611	11.122	.7603	11.164	.7731	11.287
.7648	11.132	.7638	11.154	.7770	11.230
.7681	11.149	.7673	11.173	.7803	11.313
.7722	11.160	.7713	11.267	.7851	11.317
.7760	11.208	.7751	11.240	.7885	11.354
.7794	11.228	.7779	11.240	.7919	11.356
.7840	11.220	.7831	11.268	.7952	11.379
.7876	11.305	.7867	11.299	.7986	11.411
.7910	11.251	.7901	11.317	.8021	11.363
.7943	11.301	.7934	11.301	.8058	11.471
.7976	11.237	.7967	11.305	.8092	11.466
.8012	11.230	.8003	11.299	.8129	11.484
.8049	11.275	.8040	11.338	.8163	11.467
.8083	11.324	.8073	11.375	.8195	11.445
.8120	11.322	.8110	11.389	.8228	11.470
.8154	11.324	.8145	11.385		
.8187	11.339	.8178	11.392		
.8220	11.330	.8210	11.398		
40338.8550	12.504	40338.8541	12.930	40338.8560	12.900
.8585	12.470	.8576	12.922	.8594	12.889
.8620	12.424	.8611	12.857	.8630	12.904
.8655	12.464	.8646	12.858	.8664	12.929
.8691	12.505	.8681	12.972	.8700	12.909
.8724	12.493	.8715	12.919	.8733	12.947
.8759	12.475	.8750	12.888	.8769	12.988
.8794	12.546	.8785	12.871	.8803	13.021

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		BF SER			
40338.8865	12.465	40338.8818	12.988	40338.8838	12.908
.8899	12.465	.8856	12.979	.8874	12.971
.8935	12.555	.8890	12.886	.8908	12.980
.9005	12.484	.8925	12.942	.8944	12.962
.9040	12.553	.8994	12.962	.8978	12.934
		.9024	12.856	.9049	12.980
		.9064	13.019	.9083	12.997
		.9098	12.913		
40358.6921	12.584	40358.6953	12.977	40358.6933	13.073
.6962	12.558	.6990	12.959	.6973	13.038
.6999	12.548	.7026	12.913	.7008	13.016
.7035	12.484	.7069	13.021	.7052	13.015
.7078	12.583	.7108	12.963	.7088	13.025
.7126	12.540	.7151	13.018	.7135	13.031
.7162	12.616	.7190	13.050	.7171	13.104
.7206	12.580	.7237	12.992	.7218	13.083
.7246	12.573	.7274	13.007	.7255	13.068
.7284	12.541	.7317	12.965	.7293	13.056
.7326	12.557	.7353	12.961	.7336	13.052
.7362	12.529	.7440	12.942	.7370	13.043
.7415	12.610	.7485	12.930	.7424	13.052
.7448	12.535	.7518	12.873	.7458	12.967
.7494	12.554	.7551	12.856	.7502	12.992
.7526	12.439	.7594	12.936	.7535	12.920
.7570	12.442	.7631	12.859	.7571	12.899
.7603	12.493	.7665	12.787	.7612	12.957
.7639	12.474	.7704	12.693	.7649	12.883
.7674	12.416			.7683	12.818
.7713	12.326			.7723	12.702
		CW SER			
39625.8251	12.048	39625.8244	12.426	39625.8257	12.547
39970.8950	11.606	39970.8942	11.872	39970.8960	12.031
.8986	11.617	.8978	11.877	.8996	12.053
.9021	11.621	.9012	11.878	.9030	12.051
.9057	11.642	.9048	11.904	.9066	12.115
.9092	11.643	.9082	11.904	.9101	12.092
.9127	11.671	.9118	11.954	.9137	12.097
.9173	11.670	.9163	11.943	.9182	12.150
.9210	11.692	.9201	11.993	.9220	12.131
.9247	11.686	.9238	12.018	.9256	12.172
.9282	11.706	.9274	12.022	.9292	12.240
.9321	11.742	.9312	12.048	.9331	12.263
.9358	11.760	.9348	12.097	.9367	12.296
.9395	11.769	.9385	12.085	.9405	12.313
.9432	11.784	.9422	12.105	.9478	12.321
.9469	11.793	.9459	12.131	.9514	12.291
.9505	11.813	.9496	12.146	.9550	12.328
.9539	11.844	.9531	12.164	.9586	12.395
.9576	11.851	.9567	12.198	.9628	12.426
.9617	11.855	.9609	12.206	.9665	12.422
.9655	11.905	.9644	12.250	.9700	12.414
.9691	11.883	.9681	12.280	.9740	12.477
.9729	11.908	.9719	12.287	.9777	12.427
.9767	11.884	.9757	12.285	.9813	12.466
.9803	11.911	.9794	12.307	.9851	12.447
.9840	11.918	.9831	12.271	.9867	12.448
.9877	11.935	.9868	12.347		
39973.9186	11.585	39973.9140	11.816	39973.9195	11.961
.9222	11.601	.9213	11.826	.9231	12.039
.9258	11.621	.9249	11.835	.9267	12.032
.9292	11.626	.9284	11.881	.9301	12.062
.9326	11.627	.9317	11.882	.9336	12.072
.9362	11.657	.9354	11.884	.9372	12.089
.9412	11.682	.9388	11.939	.9420	12.129
.9446	11.673	.9437	11.956	.9455	12.152
.9479	11.716	.9470	11.992	.9487	12.131
.9512	11.722	.9504	12.000	.9521	12.137
.9545	11.751	.9536	12.007	.9554	12.217
.9578	11.752	.9570	12.049	.9586	12.211
.9612	11.774	.9604	12.065	.9621	12.227
.9645	11.793	.9636	12.096	.9654	12.242
.9678	11.820	.9670	12.149	.9692	12.246
.9716	11.810	.9708	12.164	.9725	12.297
.9751	11.829	.9742	12.149	.9760	12.318
.9785	11.865	.9776	12.212	.9794	12.350
39974.8982	11.725	39974.8973	11.993	39974.8991	12.133
.9018	11.760	.9009	12.057	.9029	12.171
.9055	11.784	.9045	12.075	.9064	12.204
.9089	11.801	.9079	12.112	.9098	12.280
.9122	11.824	.9113	12.140	.9131	12.279
.9154	11.825	.9146	12.162	.9164	12.279
.9187	11.859	.9179	12.218	.9196	12.351
.9220	11.870	.9211	12.195	.9229	12.367
.9253	11.856	.9244	12.222	.9261	12.370
.9285	11.868	.9277	12.230	.9294	12.380
.9318	11.915	.9309	12.241	.9327	12.406
.9352	11.910	.9343	12.282	.9360	12.450
.9384	11.948	.9375	12.323	.9393	12.451
.9417	11.898	.9409	12.280	.9426	12.417
.9450	11.931	.9441	12.293	.9459	12.441
.9483	11.979	.9474	12.349	.9491	12.439
.9516	11.973	.9507	12.354	.9525	12.512
.9548	11.985	.9539	12.376	.9557	12.515
.9582	11.977	.9572	12.364	.9590	12.553
.9614	11.978	.9605	12.370	.9623	12.505
.9647	12.034	.9639	12.401	.9656	12.527
.9679	12.059	.9670	12.417	.9689	12.547
.9712	12.067	.9704	12.471	.9721	12.628
.9745	12.053	.9737	12.441	.9754	12.598
.9781	12.069	.9773	12.444	.9790	12.612
39980.8847	11.951	39980.8832	12.274	39980.8856	12.321
.8881	11.876	.8872	12.205	.8889	12.317
.8914	11.822	.8906	12.174	.8923	12.288
.8961	11.789	.8940	12.114	.8970	12.233
.8995	11.759	.8986	12.020	.9004	12.101
.9028	11.724	.9020	11.947	.9037	12.049
.9061	11.639	.9053	11.909	.9070	12.033

TABLE 1 (CONTINUED)

CW SER

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
.9095	11.616	.9086	11.884	.9104	11.987
.9129	11.649	.9120	11.865	.9138	12.033
.9162	11.628	.9153	11.869	.9171	12.005
.9194	11.652	.9186	11.860	.9203	12.081
.9227	11.713	.9219	11.907	.9236	12.190
.9261	11.690	.9252	11.955	.9270	12.144
.9293	11.714	.9285	11.986	.9302	12.146
.9327	11.735	.9319	12.003	.9336	12.256
.9361	11.751	.9352	12.001	.9370	12.217
.9393	11.769	.9385	12.060	.9402	12.206
.9427	11.780	.9418	12.048	.9435	12.256
.9459	11.786	.9451	12.082	.9468	12.257
.9492	11.802	.9484	12.065	.9501	12.246
39983.8685	12.014	39983.8676	12.377	39983.8696	12.485
.8726	12.069	.8718	12.391	.8735	12.540
.8760	12.014	.8751	12.427	.8769	12.589
.8793	12.032	.8784	12.423	.8803	12.516
.8826	12.000	.8817	12.389	.8835	12.546
.8860	11.994	.8851	12.428	.8869	12.567
.8893	12.015	.8883	12.396	.8903	12.557
.8968	11.983	.8919	12.414	.8941	12.558
.9003	11.968	.8958	12.366	.8978	12.487
.9037	11.947	.8994	12.366	.9012	12.489
.9072	11.933	.9028	12.355	.9047	12.470
.9105	11.884	.9062	12.336	.9080	12.503
.9140	11.858	.9096	12.326	.9115	12.404
.9173	11.825	.9130	12.231	.9149	12.340
.9207	11.788	.9165	12.202	.9182	12.297
.9241	11.735	.9198	12.149	.9216	12.291
.9278	11.696	.9231	12.127	.9250	12.222
.9310	11.678	.9269	12.000	.9287	12.180
		.9302	11.941	.9319	12.052
40327.8879	11.804	40327.8871	12.156	40327.8888	12.330
.8919	11.835	.8909	12.169	.8928	12.360
.8958	11.829	.8949	12.173	.9004	12.385
.8996	11.829	.8988	12.207	.9045	12.378
.9034	11.831	.9025	12.198	.9118	12.415
.9109	11.867	.9064	12.260	.9159	12.418
.9149	11.880	.9140	12.241	.9196	12.411
.9186	11.887	.9179	12.268	.9234	12.409
.9224	11.901	.9216	12.285	.9270	12.431
.9261	11.900	.9252	12.300	.9309	12.473
.9298	11.950	.9290	12.288	.9350	12.501
.9341	11.969	.9328	12.345	.9388	12.500
.9380	11.938	.9372	12.322	.9423	12.473
.9414	11.923	.9406	12.308	.9461	12.472
.9452	11.976	.9443	12.362	.9495	12.441
.9487	11.948	.9479	12.305	.9534	12.434
.9525	11.944	.9517	12.321	.9571	12.451
.9562	11.962	.9554	12.355	.9609	12.504
.9600	11.902	.9589	12.321	.9649	12.433
.9641	11.908	.9632	12.298	.9683	12.441
.9675	11.865	.9667	12.283	.9722	12.358
.9711	11.865	.9704	12.248	.9759	12.209
.9750	11.835	.9743	12.170		

UV VIR

39562.7955	12.247	39562.7928	12.655	39562.7969	12.803
.8025	12.196	.8011	12.650	.8053	12.730
.8101	12.217	.8073	12.727	.8122	12.825
.8191	12.484	.8178	12.764	.8219	12.895
39598.6355	12.236	39598.6342	12.683	39598.6432	12.729
.6411	12.255	.6397	12.701	.6494	12.725
.6480	12.265	.6460	12.649	.6564	12.719
.6550	12.281	.6529	12.680	.6696	12.738
.6612	12.281	.6598	12.723	.6765	12.736
.6675	12.261	.6661	12.707	.6828	12.696
.6744	12.260	.6723	12.639	.6897	12.637
.6814	12.257	.6793	12.682	.6967	12.558
.6876	12.212	.6862	12.645	.7029	12.564
.6946	12.181	.6932	12.596	.7098	12.513
.7015	12.135	.6994	12.542	.7161	12.419
.7078	12.106	.7064	12.487	.7230	12.354
.7140	12.039	.7119	12.421		
.7210	12.007	.7189	12.369		
.7293	11.931	.7265	12.278		
39992.6840	11.463	39992.6826	11.653	39992.6849	11.718
.6875	11.446	.6866	11.595	.6884	11.726
.6909	11.485	.6899	11.578	.6917	11.695
.6943	11.480	.6935	11.557	.6952	11.629
.6981	11.401	.6972	11.564	.6990	11.614
.7014	11.401	.7005	11.521	.7023	11.685
.7046	11.397	.7037	11.465	.7055	11.639
.7079	11.357	.7070	11.467	.7087	11.697
.7112	11.391	.7102	11.448	.7120	11.611
.7144	11.355	.7135	11.448	.7153	11.576
.7176	11.352	.7168	11.432	.7185	11.587
.7210	11.334	.7202	11.443	.7219	11.641
.7243	11.375	.7235	11.446	.7252	11.683
.7276	11.341	.7268	11.472	.7285	11.628
.7310	11.371	.7301	11.477	.7319	11.599
.7343	11.334	.7334	11.506	.7351	11.609
.7378	11.399	.7368	11.493	.7387	11.626
.7412	11.383	.7403	11.544	.7420	11.715
.7445	11.426	.7436	11.531	.7453	11.718

AD VIR

40386.7150	12.857	40386.7139	13.077	40386.7161	13.267
.7189	12.875	.7182	13.130	.7213	13.316
.7262	12.894	.7250	13.173	.7270	13.337
.7292	12.972	.7285	13.177	.7301	13.315
.7324	12.925	.7315	13.283	.7338	13.394
.7361	13.003	.7353	13.215	.7369	13.425
.7402	13.033	.7394	13.241	.7410	13.400
.7435	13.040	.7426	13.311	.7448	13.426
.7475	13.094	.7466	13.383	.7519	13.452
.7510	13.098	.7501	13.334	.7549	13.547

AD VIR

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
40386.7542	13.192	40386.7533	13.347	40386.7583	13.522
.7575	13.073	.7564	13.447	.7748	13.578
.7605	13.093	.7597	13.458	.7797	13.605
.7778	13.167	.7769	13.525	.7855	13.691
.7836	13.144	.7828	13.568	.7909	13.677
.7890	13.197	.7883	13.553	.7992	13.675
.7932	13.362	.7924	13.605	.8040	13.751
.7971	13.260	.7963	13.635		
.8026	13.459	.8018	13.646		

AF VIR

39622.7666	11.613	39622.7660	11.830	39622.7680	11.936
.7715	11.634	.7701	11.868	.7729	12.002
.7757	11.651	.7743	11.906	.7972	11.906
39992.7541	11.055	39992.7528	11.047	39992.7555	11.213
.7584	11.019	.7574	11.086	.7593	11.187
.7618	11.054	.7609	11.123	.7627	11.352
.7651	11.106	.7643	11.143	.7659	11.297
.7684	11.121	.7675	11.156	.7693	11.392
.7725	11.146	.7708	11.208	.7734	11.374
.7757	11.176	.7749	11.236	.7766	11.454
.7791	11.227	.7782	11.267	.7800	11.442
.7825	11.227	.7816	11.287	.7834	11.451
.7857	11.230	.7849	11.324	.7866	11.449
.7891	11.279	.7882	11.371	.7900	11.478
.7923	11.289	.7914	11.397	.7932	11.537
.7957	11.340	.7948	11.425	.7966	11.532
39993.7685	11.377	39993.7672	11.527	39993.7694	11.619
.7720	11.352	.7711	11.584	.7728	11.656
.7757	11.365	.7747	11.592	.7767	11.738
.7792	11.418	.7783	11.633	.7801	11.729
.7825	11.409	.7817	11.637	.7834	11.747
.7859	11.439	.7850	11.675	.7867	11.738
.7893	11.440	.7884	11.665	.7902	11.784
.7927	11.468	.7917	11.708	.7935	11.863
.7960	11.482	.7951	11.717	.7968	11.815
.7996	11.510	.7987	11.738	.8005	11.856
.8029	11.524	.8022	11.741	.8038	11.887
.8065	11.545	.8056	11.801	.8074	11.903
.8099	11.586	.8090	11.828	.8108	11.915
.8134	11.567	.8125	11.840	.8142	11.938
.8167	11.598	.8158	11.848	.8176	11.923
.8199	11.552	.8191	11.839	.8208	11.993
.8232	11.572	.8223	11.846	.8240	11.921
.8265	11.619	.8256	11.904	.8274	11.938
.8298	11.685	.8289	11.982	.8307	12.084
.8331	11.681	.8322	11.984	.8339	12.093
.8366	11.677	.8357	11.969	.8374	12.106
.8403	11.695	.8390	11.991	.8412	12.112
.8435	11.736	.8427	12.004	.8444	12.080
.8469	11.724	.8460	12.033	.8478	12.089
.8501	11.739	.8493	12.017	.8510	12.102
.8535	11.769	.8526	12.096	.8558	12.071
.8584	11.835	.8576	12.147	.8593	12.183
.8617	11.841	.8608	12.157	.8626	12.191
.8694	11.833	.8660	12.116	.8703	12.278
.8738	11.871	.8728	12.177	.8747	12.311
.8770	11.890	.8761	12.193	.8780	12.242
.8815	11.885	.8806	12.235	.8824	12.241
.8849	11.924	.8840	12.272	.8858	12.292
.8888	11.870	.8874	12.268	.8897	12.368
40331.8532	11.058	40331.8518	11.093	40331.8548	11.323
.8586	11.081	.8572	11.139	.8601	11.297
.8707	11.187	.8624	11.179	.8670	11.415
.8761	11.222	.8693	11.280	.8724	11.479
.8811	11.282	.8746	11.376	.8775	11.557
.8866	11.373	.8798	11.433	.8826	11.619
.8917	11.405	.8848	11.423	.8881	11.673
.9015	11.472	.8903	11.457	.8932	11.637
.9127	11.507	.8951	11.497	.8980	11.670
.9177	11.527	.9001	11.567	.9029	11.786
.9225	11.537	.9063	11.579	.9093	11.772
.9332	11.549	.9114	11.632	.9142	11.835
		.9211	11.707	.9191	11.881
		.9260	11.729	.9239	11.911
		.9317	11.787	.9294	11.919
		.9367	11.844	.9347	11.966
		.9417	11.808	.9397	11.944
				.9452	11.958
40333.7153	11.998	40333.7143	12.367	40333.7163	12.402
.7191	11.873	.7182	12.337	.7202	12.296
.7234	12.002	.7222	12.361	.7246	12.274
.7275	11.850	.7265	12.370	.7287	12.214
.7316	11.756	.7302	12.124	.7326	12.105
.7355	11.672	.7346	11.977	.7366	11.977
.7392	11.522	.7382	11.896	.7404	11.845
.7434	11.370	.7423	11.603	.7444	11.770
.7473	11.248	.7462	11.472	.7482	11.437
.7513	11.120	.7503	11.326	.7516	11.359
.7552	11.050	.7542	11.217	.7562	11.210
.7588	10.968	.7578	11.119	.7597	11.173
.7661	10.944	.7651	11.163	.7671	11.142
.7705	10.961	.7695	11.039	.7714	11.172
.7760	10.946	.7749	11.095	.7769	11.179
.7796	10.986	.7786	11.098	.7805	11.202
.7832	11.000	.7822	11.238	.7846	11.355
.7872	11.152	.7862	11.197	.7883	11.436
.7910	11.128	.7900	11.270	.7921	11.343
.7954	11.071	.7945	11.244	.7965	11.390
.7991	11.149	.7982	11.295	.8000	11.368
.8029	11.127	.8019	11.370	.8037	11.452
.8066	11.124	.8057	11.304	.8076	11.492
.8105	11.229	.8096	11.411	.8118	11.592
.8146	11.261	.8134	11.391	.8155	11.611
.8195	11.237	.8185	11.450	.8263	11.563
.8256	11.283	.8243	11.537	.8312	11.688
.8302	11.341	.8292	11.512	.8343	11.741
.8340	11.390	.8331	11.572	.8394	11.818

TABLE 1 (CONTINUED)

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		AF VIR			
40333.8384	11.447	40333.8367	11.572	40333.8432	11.826
.8421	11.393	.8412	11.722	.8467	11.833
.8457	11.412	.8448	11.619		
40344.8014	11.989	40344.8005	12.111	40344.8023	12.393
.8050	12.010	.8041	12.232	.8059	12.364
.8084	11.928	.8075	12.217	.8167	12.354
.8120	11.986	.8110	12.173	.8201	12.229
.8157	12.024	.8148	12.270	.8236	12.240
.8191	12.022	.8182	12.203	.8270	12.348
.8227	12.046	.8216	12.143	.8304	12.274
.8261	11.963	.8252	12.099	.8348	12.291
.8295	11.841	.8286	12.104	.8384	12.055
.8339	11.894	.8330	12.105	.8422	12.055
.8375	11.914	.8366	12.104	.8457	12.160
.8410	11.822	.8401	12.068	.8495	12.127
.8448	11.697	.8438	11.908	.8530	11.897
.8485	11.755	.8476	11.343	.8565	12.077
.8521	11.747	.8511	11.883	.8604	11.994
.8554	11.820	.8545	11.915	.8637	11.893
.8594	11.705	.8580	11.829	.8672	11.767
.8628	11.601	.8619	11.749	.8705	11.818
.8663	11.603	.8653	11.746	.8738	11.814
.8695	11.505	.8687	11.687	.8772	11.729
.8729	11.484	.8720	11.732	.8805	11.661
.8762	11.506	.8753	11.573	.8840	11.602
.8796	11.411	.8787	11.534	.8876	11.587
.8832	11.385	.8823	11.483	.8915	11.548
.8866	11.288	.8857	11.501	.8961	11.570
.8904	11.267	.8895	11.364	.8995	11.490
.8952	11.271	.8943	11.414		
.8985	11.236	.8977	11.324		
		AV VIR			
39517.9038	11.637	39517.9017	12.024	39517.9052	12.007
.9107	11.652	.9087	11.911	.9128	11.970
.9198	11.556	.9177	11.840	.9219	11.927
.9281	11.487	.9260	11.757	.9302	11.835
.9351	11.442	.9337	11.682	.9371	11.802
.9427	11.421	.9406	11.665	.9448	11.775
.9510	11.422	.9489	11.647	.9531	11.771
.9587	11.437	.9566	11.654	.9614	11.775
.9677	11.445	.9656	11.661	.9698	11.806
.9753	11.455	.9732	11.695	.9774	11.899
.9857	11.492	.9837	11.726	.9878	11.906
.9934	11.516	.9913	11.765	.9955	11.896
40381.7152	11.802	40381.7128	12.248	40381.7164	12.205
.7196	11.749	.7187	12.147	.7219	12.061
.7250	11.655	.7242	12.024	.7259	12.131
.7286	11.631	.7277	11.927	.7305	12.012
.7329	11.615	.7321	11.892	.7337	12.031
.7362	11.622	.7354	11.924	.7371	12.030
.7389	11.722	.7388	11.913	.7408	12.045
.7433	11.563	.7425	11.888	.7442	11.984
.7478	11.602	.7471	11.802	.7491	12.064
.7525	11.511	.7506	11.860	.7541	11.923
.7564	11.538	.7556	11.740	.7574	12.001
.7609	11.448	.7599	11.734	.7619	11.949
.7669	11.415	.7659	11.674	.7678	11.826
.7728	11.430	.7698	11.657	.7739	11.917
.7777	11.414	.7757	11.695	.7786	11.838
.7811	11.466	.7803	11.628	.7829	11.839
.7854	11.403	.7844	11.590	.7868	11.804
.7895	11.419	.7887	11.615	.7907	11.846
.7948	11.386	.7917	11.617	.7971	11.790
.8003	11.433	.7992	11.640	.8021	11.868
40384.6767	11.924	40384.6759	12.344	40384.6776	12.441
.6813	11.896	.6804	12.318	.6822	12.424
.6849	11.930	.6840	12.401	.6858	12.456
.6888	11.919	.6880	12.330	.6896	12.461
.6922	11.911	.6914	12.399	.6931	12.476
.6956	11.938	.6947	12.370	.6956	12.464
.6990	11.929	.6978	12.383	.6998	12.465
.7023	11.936	.7015	12.364	.7032	12.471
.7056	11.953	.7049	12.343	.7067	12.492
.7096	11.941	.7086	12.408	.7105	12.490
.7140	11.947	.7129	12.390	.7149	12.505
.7184	11.936	.7176	12.402	.7199	12.499
.7226	11.979	.7217	12.531	.7233	12.552
.7267	11.962	.7258	12.478	.7274	12.564
.7298	12.033	.7290	12.514	.7306	12.623
.7331	12.084	.7322	12.526	.7339	12.709
.7387	12.040	.7356	12.508	.7395	12.743
.7422	12.064	.7414	12.513	.7463	12.731
.7455	12.162	.7446	12.695	.7572	12.665
.7487	12.213	.7510	12.642	.7605	12.636
.7519	12.131	.7544	12.619	.7649	12.711
.7563	12.107	.7588	12.562	.7715	12.714
.7596	12.047	.7684	12.544		
.7629	12.093				
.7693	12.050				
40402.6588	12.115	40402.6580	12.562	40402.6596	12.664
.6619	12.062	.6611	12.599	.6628	12.635
.6666	12.099	.6653	12.547	.6675	12.660
.6707	12.081	.6691	12.564	.6716	12.627
.6743	12.104	.6734	12.636	.6751	12.661
.6775	12.076	.6766	12.596	.6783	12.699
.6809	12.139	.6800	12.591	.6820	12.639
.6843	12.128	.6835	12.599	.6852	12.712
.6875	12.147	.6866	12.596	.6884	12.636
.6907	12.114	.6899	12.628	.6916	12.687
.6939	12.129	.6973	12.573	.6991	12.685
.7020	12.065	.7010	12.612	.7030	12.689
.7075	12.093	.7067	12.568	.7099	12.566
.7150	12.035	.7129	12.428	.7160	12.424
.7211	11.991	.7180	12.423	.7225	12.446
.7262	11.902	.7241	12.390	.7271	12.428
.7316	11.896	.7294	12.389	.7325	12.426

HELIO. JD 2400000 +	V	HELIO. JD 2400000 +	B	HELIO. JD 2400000 +	U
		BC VIR			
40003.6674	12.203	40003.6786	12.693	40003.6755	12.654
.6746	12.296	.6820	12.617	.6804	12.572
.6795	12.280	.6865	12.805	.6921	12.873
.6911	12.379	.6901	12.731	.6995	12.856
.6949	12.391	.6940	12.730	.7030	12.784
.6986	12.397	.6975	12.765	.7064	12.867
.7020	12.324	.7011	12.726	.7097	12.892
.7054	12.453	.7045	12.743	.7132	12.853
.7088	12.423	.7079	12.789	.7167	12.918
.7123	12.422	.7113	12.780	.7201	12.897
.7156	12.427	.7148	12.817	.7236	12.977
.7192	12.391	.7182	12.786	.7274	12.794
.7226	12.445	.7217	12.820	.7309	12.826
.7265	12.443	.7253	12.791	.7344	12.874
.7299	12.500	.7290	12.789	.7381	12.772
.7334	12.387	.7324	12.863	.7419	12.882
.7372	12.528	.7362	12.955	.7459	12.975
.7408	12.540	.7397	12.875	.7498	12.996
.7448	12.533	.7436	12.992	.7544	13.025
.7487	12.572	.7476	12.942	.7579	13.098
.7524	12.497	.7515	12.886	.7616	12.872
.7569	12.566	.7559	12.928	.7667	13.018
.7606	12.600	.7596	12.911	.7705	12.970
.7656	12.572	.7638	12.993	.7745	12.981
.7694	12.641	.7684	12.933	.7783	12.837
.7736	12.487	.7724	12.855	.7829	13.022
.7774	12.540	.7764	12.870	.7865	12.850
.7811	12.516	.7801	12.892	.7904	12.705
.7856	12.458	.7846	12.914	.7941	12.493
.7892	12.415	.7883	12.783	.7977	12.502
.7932	12.159	.7921	12.549	.8013	12.341
.7967	12.260	.7957	12.554	.8049	12.222
.8003	12.056	.7993	12.353	.8085	12.010
.8038	11.958	.8029	12.190		
.8076	11.813	.8065	11.998		
40254.9392	12.441	40254.9375	12.986	40254.9439	12.951
.9430	12.532	.9421	12.899	.9478	12.945
.9468	12.501	.9457	12.947	.9517	12.851
.9508	12.461	.9499	12.926	.9560	12.892
.9551	12.484	.9539	12.940	.9640	12.998
.9590	12.493	.9581	12.920	.9685	12.846
.9630	12.573	.9620	12.920	.9722	13.002
.9676	12.490	.9665	12.872	.9763	12.909
.9712	12.536	.9703	12.967	.9799	12.858
.9754	12.604	.9739	12.965	.9837	13.038
.9790	12.686	.9781	12.939	.9878	12.866
.9827	12.674	.9816	12.993	.9913	12.925
.9868	12.709	.9854	12.955	.9962	12.788
.9903	12.645	.9894	12.938	40255.0001	12.817
.9941	12.620	.9931	12.889	.0036	12.911
.9991	12.570	.9982	12.921	.0074	12.857
40255.0027	12.452	40255.0018	12.873	.0110	12.867
.0063	12.498	.0053	12.841	.0147	12.767
.0100	12.353	.0091	12.770	.0183	12.638
.0136	12.345	.0126	12.735	.0228	12.391
.0174	12.272	.0164	12.635	.0264	12.254
.0217	12.123	.0208	12.504	.0299	12.204
.0255	12.032	.0244	12.315	.0335	12.025
.0290	11.961	.0281	12.186	.0371	12.017
.0326	11.842	.0315	12.093	.0408	11.783
.0361	11.702	.0352	11.907	.0442	11.775
.0398	11.662	.0388	11.817		
.0433	11.545	.0424	11.688		
40339.7439	11.309	40339.7424	11.396	40339.7453	11.590
.7489	11.361	.7475	11.498	.7504	11.568
.7535	11.348	.7525	11.438	.7544	11.557
.7569	11.366	.7560	11.475	.7578	11.677
.7639	11.443	.7594	11.513	.7612	11.595
.7673	11.483	.7629	11.611	.7683	11.753
.7708	11.481	.7664	11.553	.7717	11.778
.7742	11.539	.7698	11.588	.7751	11.811
.7776	11.509	.7733	11.676	.7788	11.788
.7813	11.523	.7767	11.613	.7822	11.757
.7848	11.551	.7804	11.642	.7858	11.926
.7884	11.577	.7839	11.703	.7893	11.958
.7919	11.670	.7875	11.728	.7928	11.780
.7954	11.641	.7909	11.734	.7963	11.900
.7991	11.657	.7944	11.772	.8038	11.938
.8063	11.661	.7982	11.750	.8072	11.983
.8096	11.669	.8017	11.804	.8105	12.040
.8131	11.703	.8054	11.853	.8139	12.124
.8164	11.763	.8088	11.910	.8167	12.025
.8198	11.754	.8121	11.836	.8208	12.112
.8233	11.740	.8155	11.851	.8242	12.075
.8269	11.791	.8189	11.897	.8278	12.032
.8304	11.784	.8224	11.925	.8346	12.132
.8337	11.801	.8259	11.888	.8380	12.163
.8371	11.773	.8294	11.918	.8414	12.114
.8405	11.848	.8328	11.963	.8448	12.268
.8439	11.844	.8362	11.984	.8494	12.220
.8485	11.853	.8396	12.026	.8528	12.239
.8518	11.983	.8429	12.028	.8562	12.230
.8553	11.937	.8476	12.083	.8595	12.261
.8585	11.933	.8509	12.076	.8630	12.424
.8621	11.911	.8543	12.078	.8667	12.375
.8658	11.986	.8577	12.150	.8701	12.423
.8692	11.950	.8612	12.162	.8736	12.279
.8727	11.934	.8648	12.118		
		.8683	12.207		
		.8718	12.200		

TABLE 2

STEWARD OBSERVATORY UBV MAGNITUDES OF RR LYRAE STARS

HELIO. JD 2400000 +	V	B	U
CC AND			
39887.6531	9.364	9.696	9.799
.6548	9.359	9.682	9.791
.6556	9.356	9.668	9.778
.6577	9.351	9.660	9.762
.6586	9.348	9.672	9.780
.6604	9.345	9.654	9.780
.6614	9.339	9.656	9.766
.6704	9.313	9.631	9.738
.6713	9.317	9.623	9.752
.6734	9.306	9.624	9.749
.6743	9.309	9.609	9.729
.6783	9.312	9.612	9.737
.6790	9.304	9.617	9.737
.6813	9.314	9.627	9.727
.6828	9.307	9.619	9.732
.6880	9.319	9.627	9.745
.6889	9.320	9.628	9.756
.6908	9.320	9.634	9.738
.6919	9.326	9.639	9.757
.6943	9.332	9.647	9.756
.6950	9.332	9.652	9.764
.7000	9.345	9.660	9.770
.7011	9.351	9.664	9.792
.7029	9.356	9.676	9.772
.7039	9.357	9.693	9.797
.7058	9.355	9.699	9.814
.7069	9.360	9.699	9.816
39909.6049	9.470	9.813	9.930
.6068	9.467	9.826	9.934
.6083	9.468	9.823	9.946
.6101	9.472	9.840	9.971
.6118	9.473	9.817	9.937
.6143	9.470	9.822	9.918
.6162	9.491	9.839	9.952
.6178	9.470	9.828	9.921
.6233	9.463	9.818	9.914
.6251	9.452	9.789	9.887
.6286	9.442	9.776	9.877
.6305	9.426	9.760	9.873
.6338	9.415	9.742	9.850
.6360	9.388	9.736	9.830
.6379	9.392	9.718	9.808
BO AQR			
39745.8050	12.606	13.053	13.096
.8104	12.589	13.067	13.140
.8152	12.611	13.062	13.115
.8202	12.604	13.043	13.101
.8252	12.598	13.062	13.087
.8312	12.593	13.062	13.118
.8361	12.560	13.039	13.052
.8472	12.557	12.991	13.046
.8533	12.515	12.939	12.945
.8582	12.488	12.914	12.941
.8631	12.433	12.834	12.862
.9018	11.850	12.093	12.184
.9072	11.790	12.017	12.098
.9120	11.731	11.954	12.052
.9171	11.672	11.869	11.966
.9236	11.624	11.797	11.876
.9279	11.584	11.758	11.904
.9328	11.570	11.736	11.833
.9379	11.558	11.725	11.834
.9437	11.562	11.730	11.786
.9484	11.579	11.737	11.825
BT AQR			
39656.9005	12.580	13.039	13.209
.9061	12.568	13.044	13.190
.9120	12.569	13.046	13.232
.9167	12.592	13.076	13.257
.9214	12.600	13.073	13.266
.9263	12.607	13.077	13.294
.9311	12.616	13.096	13.273
.9366	12.630	13.115	13.295
.9416	12.640	13.123	13.262
.9467	12.639	13.122	13.248
.9524	12.648	13.127	13.342
.9573	12.655	13.149	13.354
39742.8498	11.845	11.956	12.055
.8557	11.780	11.904	12.023
39762.6752	12.771	13.317	13.514
.6827	12.806	13.324	13.547
.6877	12.814	13.331	13.523
.6936	12.835	13.335	13.550
.6999	12.842	13.354	13.536
.7051	12.843	13.365	13.569
.7131	12.836	13.323	13.512
.7179	12.809	13.286	13.450
.7228	12.781	13.236	13.382
.7620	11.825	11.960	12.117
.7668	11.785	11.919	12.073
.7717	11.808	11.933	12.086
.7752	11.811	11.963	12.146
.7787	11.836	11.991	12.185
.7828	11.867	12.013	12.194
.8003	11.981	12.146	12.395
.8041	11.974	12.194	12.388
14 AUR			
40125.9237	4.966	5.159	5.266
.9248	4.958	5.148	5.253

HELIO. JD 2400000 +	V	B	U
14 AUR			
40125.9273	4.952	5.148	5.243
.9302	4.959	5.148	5.250
.9315	4.951	5.142	5.239
.9332	4.954	5.147	5.254
.9347	4.956	5.149	5.255
.9359	4.951	5.143	5.250
.9413	4.963	5.161	5.265
.9427	4.962	5.160	5.271
.9577	5.010	5.219	5.325
.9601	5.022	5.230	5.338
.9627	5.014	5.230	5.329
.9648	5.026	5.238	5.349
.9689	5.027	5.241	5.345
.9736	5.032	5.246	5.342
.9748	5.037	5.251	5.359
.9869	5.027	5.249	5.344
.9880	5.027	5.246	5.346
.9925	5.031	5.246	5.344
.9946	5.029	5.243	5.345
.9979	5.013	5.224	5.319
40126.0007	5.011	5.227	5.326
.0030	5.014	5.224	5.323
.0085	4.995	5.196	5.302
RX CVN			
39565.9160	12.973	13.361	13.426
.9210	12.980	13.378	13.437
.9261	12.966	13.387	13.401
.9321	12.953	13.394	13.451
.9371	12.944	13.369	13.404
.9540	12.884	13.281	13.317
.9591	12.851	13.250	13.257
.9651	12.765	13.108	13.092
.9833	12.467	12.774	12.827
.9883	12.442	12.709	12.743
.9937	12.369	12.602	12.676
.9987	12.326	12.565	12.646
39566.0042	12.274	12.475	12.549
.0090	12.231	12.436	12.526
.0139	12.216	12.396	12.499
.0188	12.193	12.360	12.460
.0237	12.175	12.369	12.490
39622.7345	12.245	12.404	12.554
.7394	12.241	12.392	12.525
.7420	12.238	12.418	12.555
.7465	12.266	12.423	12.554
.7502	12.281	12.516	12.624
.7543	12.285	12.469	12.603
.7622	12.315	12.496	12.625
.7656	12.338	12.518	12.654
SS CVN			
39622.6589	11.800	12.023	12.082
.6674	11.687	11.791	11.937
.6726	11.638	11.790	11.893
.6799	11.599	11.736	11.859
.6889	11.552	11.679	11.809
.6939	11.537	11.658	11.786
.7004	11.531	11.640	11.795
.7054	11.520	11.631	11.790
.7110	11.520	11.633	11.789
.7169	11.534	11.652	11.812
.7206	11.524	11.638	11.791
.7242	11.538	11.648	11.815
39952.7883	12.279	12.648	12.683
.7918	12.311	12.674	12.692
.7974	12.286	12.654	12.673
.8025	12.273	12.640	12.676
.8076	12.264	12.651	12.664
.8127	12.262	12.640	12.653
.8184	12.261	12.656	12.682
SV CVN			
39564.8883	12.800	13.225	13.200
.8931	12.835	13.240	13.229
.8980	12.830	13.231	13.207
.9061	12.842	13.232	13.190
.9115	12.829	13.216	13.207
.9193	12.817	13.192	13.171
.9247	12.825	13.220	13.211
.9302	12.819	13.214	13.195
.9429	12.835	13.212	13.217
.9484	12.834	13.239	13.211
.9540	12.845	13.220	13.197
.9762	12.837	13.220	13.190
.9832	12.834	13.214	13.162
.9891	12.839	13.230	13.217
.9967	12.845	13.210	13.192
39565.0076	12.890	13.251	13.251
39910.9539	12.873	13.269	13.246
.9612	12.899	13.282	13.283
.9689	12.885	13.298	13.280
.9734	12.896	13.297	13.280
.9771	12.880	13.314	13.336
.9811	12.880	13.307	13.278
.9862	12.904	13.293	13.318
.9947	12.907	13.311	13.270
.9987	12.926	13.316	13.303
39911.0080	12.912	13.335	13.354
.0120	12.917	13.347	13.314
.0205	12.925	13.336	13.310
.0241	12.932	13.336	13.319

HELIO. JD 2400000 +	V	B	U
SS CVN			
.0295	12.925	13.354	13.332
.0334	12.929	13.337	13.310
.0371	12.935	13.338	13.329
.0406	12.930	13.344	13.331
39951.7907	13.013	13.425	13.426
.7956	12.993	13.413	13.408
.8005	12.990	13.407	13.420
.8052	12.995	13.418	13.419
.8115	13.000	13.389	13.401
.8231	13.004	13.404	13.396
.8280	12.985	13.394	13.388
.8378	12.988	13.373	13.363
.8442	12.996	13.389	13.376
.8481	12.987	13.386	13.359
.9743	12.997	13.373	13.326
.9824	12.992	13.374	13.250
.9889	12.995	13.344	13.284
39952.6603	12.989	13.376	13.390
.6656	12.969	13.377	13.295
.6713	12.940	13.326	13.263
.6768	12.916	13.273	13.241
.6859	12.840	13.187	13.133
.6918	12.783	13.111	13.051
.6977	12.678	13.010	12.952
.7027	12.610	12.906	12.841
.7082	12.544	12.819	12.785
.7161	12.487	12.719	12.791
.7215	12.429	12.666	12.667
.7264	12.377	12.601	12.627
.7327	12.314	12.517	12.588
.7377	12.275	12.465	12.549
.7445	12.239	12.408	12.483
.7486	12.217	12.396	12.452
.7520	12.210	12.371	12.476
.7559	12.210	12.371	12.463
.7596	12.200	12.356	12.461
DQ CEP			
39655.9256	7.295	7.647	7.793
.9278	7.307	7.641	7.784
.9286	7.305	7.643	7.790
.9308	7.307	7.640	7.791
.9318	7.309	7.634	7.791
.9369	7.310	7.645	7.790
.9384	7.318	7.651	7.805
.9416	7.318	7.658	7.799
.9439	7.315	7.653	7.802
.9451	7.318	7.658	7.807
.9482	7.322	7.669	7.821
39762.6173	7.290	7.625	7.751
.6201	7.291	7.627	7.750
.6236	7.297	7.626	7.753
.6244	7.300	7.630	7.767
.6252	7.300	7.640	7.766
.6262	7.300	7.632	7.773
.6303	7.304	7.638	7.782
.6314	7.311	7.648	7.783
.6335	7.319	7.661	7.803
.6347	7.316	7.645	7.792
.6387	7.313	7.643	7.770
.6396	7.313	7.634	7.764
.6407	7.314	7.650	7.779
.6416	7.311	7.650	7.783
.6426	7.309	7.641	7.773
.6450	7.316	7.648	7.778
.6473	7.316	7.655	7.790
39792.5941	7.282	7.611	7.760
.5948	7.283	7.612	7.760
.5956	7.279	7.617	7.757
.5963	7.277	7.614	7.759
.6092	7.293	7.631	7.782
.6099	7.292	7.631	7.777
.6106	7.294	7.631	7.787
.6115	7.297	7.636	7.787
.6424	7.266	7.600	7.743
.6431	7.262	7.601	7.748
.6440	7.261	7.592	7.747
.6447	7.263	7.592	7.741
.6520	7.247	7.567	7.706
.6526	7.244	7.566	7.719
.6626	7.224	7.550	7.691
.6633	7.221	7.550	7.699
RX CET			
40125.7339	11.727	12.151	12.228
.7385	11.698	12.111	12.108
.7436	11.651	12.070	12.073
.7485	11.563	11.925	11.928
.7586	11.392	11.722	11.698
.7688	11.242	11.532	11.551
.7735	11.181	11.453	11.485
.7773	11.149	11.407	11.453
.7914	10.993	11.191	11.287
.7949	10.960	11.150	11.249
.7987	10.943	11.115	11.212
.8058	10.939	11.111	11.241
.8104	10.939	11.108	11.224
.8180	10.952	11.154	11.272
.8228	10.968	11.160	11.292
40126.7715	11.668	12.095	12.149
.7771	11.633	12.058	12.081
.7819	11.637	12.045	12.066
.7869	11.630	12.071	12.124

TABLE 2 (CONTINUED)

HELIO. JD 2400000 +	V	B	U
RX CET			
40126.7908	11.640	12.076	12.100
.7986	11.662	12.105	12.151
.8025	11.663	12.099	12.130
.8122	11.696	12.123	12.140
.8175	11.703	12.136	12.170
.8211	11.710	12.145	12.174
.8271	11.729	12.166	12.197
.8332	11.735	12.179	12.220
.8384	11.762	12.198	12.236
.8470	11.772	12.237	12.274
.8511	11.765	12.208	12.232
.8547	11.778	12.239	12.263
.8614	11.795	12.257	12.266
.8652	11.800	12.244	12.245
.8705	11.789	12.241	12.215
.8747	11.802	12.246	12.263
.8898	11.626	12.039	12.036
.8938	11.579	11.969	11.947
.8977	11.520	11.892	11.888
.9010	11.472	11.823	11.746
V COM			
39564.8154	13.826	14.299	14.378
.8208	13.794	14.204	14.228
.8266	13.796	14.186	14.196
.8322	13.786	14.209	14.312
.8457	13.796	14.218	14.270
.8510	13.825	14.211	14.283
.8566	13.838	14.185	14.329
39968.7395	13.757	14.165	14.175
.7559	13.798	14.173	14.239
.7738	13.773	14.198	14.220
.7958	13.800	14.205	14.261
39998.7460	13.721	14.109	14.191
.7526	13.739	14.127	14.158
.7579	13.745	14.142	14.165
.7633	13.766	14.181	14.224
.7758	13.761	14.192	14.234
.7814	13.809	14.207	14.260
.7946	13.784	14.224	14.251
.8000	13.800	14.208	14.212
.8082	13.781	14.180	14.250
.8143	13.806	14.200	14.250
.8220	13.767	14.187	14.251
.8288	13.748	14.178	14.268
40023.6781	13.791	14.235	14.252
.6838	13.818	14.204	14.220
.6886	13.821	14.179	14.219
.6938	13.824	14.236	14.438
.7003	13.786	14.165	14.192
.7068	13.797	14.170	14.216
.7121	13.790	14.173	14.276
.7196	13.773	14.176	14.174
.7317	13.763	14.176	14.294
.7368	13.789	14.148	14.167
.7417	13.765	14.150	14.148
40387.6764	13.723	14.148	14.191
.6830	13.726	14.150	14.181
.6887	13.748	14.154	14.178
.6951	13.770	14.152	14.143
.7012	13.733	14.155	14.177
.7132	13.737	14.133	14.207
.7187	13.739	14.137	14.191
.7285	13.754	14.132	14.152
.7370	13.741	14.122	14.181
.7429	13.739	14.132	14.137
.7540	13.735	14.101	14.153
.7609	13.733	14.064	14.173
.7667	13.710	14.101	14.159
.7723	13.714	14.115	14.101
.7800	13.739	14.125	14.152
40683.8630	13.737	14.151	14.170
.8703	13.742	14.116	14.214
.8786	13.758	14.129	14.175
.9037	13.538	13.932	13.953
.9077	13.471	13.713	13.699
.9139	13.197	13.361	13.316
.9178	13.030	13.164	13.151
.9216	12.846	12.976	12.994
.9253	12.706	12.773	12.807
.9301	12.564	12.586	12.613
.9346	12.490	12.517	12.572
.9389	12.483	12.484	12.531
.9435	12.498	12.504	12.568
.9477	12.541	12.543	12.620
.9516	12.552	12.593	12.678
.9553	12.602	12.633	12.729
.9593	12.633	12.661	12.756
Z COM			
39950.6992	13.383	13.522	13.660
.7068	13.414	13.583	13.766
.7132	13.431	13.632	13.792
39951.7321	13.353	13.533	13.616
.7370	13.227	13.372	13.461
.7436	13.150	13.271	13.363
.7489	13.145	13.230	13.399
.7545	13.131	13.240	13.361
.7593	13.146	13.268	13.431
.7674	13.223	13.314	13.465
.7725	13.232	13.376	13.564
39968.6524	14.087	14.486	14.493
.6583	13.929	14.265	14.236
.6637	13.766	14.037	13.941
39969.7349	14.315	14.715	14.769
.7411	14.195	14.576	14.566
.7461	14.102	14.469	14.468
.7518	13.932	14.266	14.270
.7592	13.753	13.945	13.864
39998.6541	14.220	14.708	14.718
.6591	14.223	14.621	14.722
.6647	14.224	14.703	14.734
.6701	14.282	14.686	14.784
.6770	14.261	14.661	14.747
.6877	14.307	14.708	14.694
.6926	14.287	14.686	14.729
.6985	14.266	14.705	14.822
.7034	14.252	14.670	14.671
.7085	14.263	14.614	14.661
.7138	14.193	14.587	14.613
.7190	14.122	14.448	14.463
RT COM			
39950.8729	14.415	14.785	14.802
.8789	14.429	14.803	14.798
.8847	14.397	14.787	14.754
.8979	14.419	14.836	14.864
.9056	14.428	14.824	14.861
.9158	14.491	14.866	14.910
.9222	14.515	14.901	14.954
.9299	14.439	14.881	14.866
.9365	14.441	14.863	14.949
.9451	14.412	14.789	14.908
.9542	14.341	14.737	14.837
.9639	14.269	14.592	14.661
.9701	14.191	14.471	14.516
.9756	14.115	14.423	14.461
.9809	14.050	14.345	14.327
.9891	13.949	14.230	14.248
.9944	13.891	14.138	14.189
39967.9532	13.958	14.202	14.273
.9585	13.900	14.119	14.166
.9646	13.829	14.021	14.102
.9705	13.733	13.920	14.003
.9769	13.673	13.845	13.975
.9837	13.624	13.823	13.928
40022.7728	14.197	14.528	14.516
.7780	14.063	14.423	14.471
.7831	13.945	14.245	14.288
.7884	13.754	13.977	13.927
.7933	13.639	13.856	13.882
.7996	13.524	13.660	13.763
.8054	13.458	13.559	13.596
.8103	13.426	13.509	13.495
.8157	13.399	13.517	13.539
.8207	13.438	13.527	13.484
.8262	13.447	13.596	13.395
.8360	13.498	13.623	13.767
W CRT			
39601.7396	11.915	12.481	12.609
39910.7361	11.898	12.373	12.525
.7413	11.905	12.388	12.500
.7465	11.909	12.383	12.520
.7501	11.912	12.396	12.494
.7537	11.921	12.399	12.546
.7576	11.946	12.390	12.548
.7633	11.961	12.422	12.582
.7671	11.974	12.437	12.597
.7719	11.976	12.443	12.584
.7754	11.988	12.463	12.626
.7794	12.002	12.483	12.648
.7839	12.026	12.485	12.659
.7896	12.049	12.514	12.697
.7971	12.051	12.538	12.666
.8014	12.070	12.534	12.697
.8051	12.075	12.553	12.713
.8086	12.079	12.569	12.686
.8122	12.076	12.553	12.709
.8162	12.071	12.546	12.683
.8213	12.050	12.500	12.628
.8247	12.027	12.457	12.575
.8423	11.539	11.833	11.937
.8456	11.396	11.675	11.788
.8499	11.201	11.424	11.576
.8536	10.999	11.154	11.267
.8569	10.881	10.982	11.079
.8601	10.818	10.903	10.984
.8635	10.794	10.871	10.964
.8670	10.796	10.865	10.952
.8703	10.813	10.887	10.985
.8734	10.827	10.898	11.010
.8768	10.842	10.913	11.066
DELTA DEL			
40127.7059	4.381	4.659	4.718
.7070	4.397	4.667	4.728
.7081	4.396	4.665	4.728
.7091	4.387	4.656	4.720
.7132	4.384	4.665	4.742
.7228	4.383	4.657	4.727
.7236	4.383	4.655	4.724
.7256	4.383	4.656	4.720
.7285	4.387	4.660	4.730
.7342	4.389	4.666	4.725
.7352	4.394	4.666	4.734
.7404	4.398	4.670	4.741
.7413	4.387	4.675	4.739
.7441	4.381	4.666	4.724
.7450	4.384	4.670	4.743
.7460	4.387	4.671	4.744
.7481	4.399	4.685	4.748
.7552	4.392	4.673	4.746
DELTA DEL			
40127.7589	4.391	4.678	4.746
.7599	4.393	4.674	4.744
.7612	4.401	4.689	4.751
.7634	4.392	4.673	4.747
.7647	4.405	4.685	4.763
.7668	4.407	4.678	4.745
.7694	4.427	4.682	4.788
.7742	4.393	4.677	4.746
.7759	4.391	4.686	4.766
.7779	4.397	4.682	4.744
.7793	4.420	4.712	4.808
.7804	4.422	4.720	4.791
.7829	4.420	4.722	4.806
.7868	4.417	4.725	4.788
.7882	4.439	4.746	4.846
.7929	4.439	4.742	4.844
.7956	4.448	4.744	4.838
.7975	4.440	4.745	4.840
.7991	4.442	4.729	4.837
.8043	4.432	4.757	4.852
.8057	4.436	4.739	4.809
.8077	4.456	4.760	4.859
.8100	4.459	4.760	4.842
BB ERI			
39792.8097	11.706	12.115	12.257
.8146	11.679	12.089	12.188
.8174	11.671	12.092	12.178
.8223	11.683	12.087	12.172
.8290	11.704	12.101	12.180
.8405	11.698	12.137	12.214
.8523	11.729	12.209	12.378
40151.8287	11.755	12.195	12.252
.8344	11.760	12.192	12.251
.8430	11.762	12.211	12.287
.8465	11.764	12.200	12.240
.8521	11.759	12.215	12.279
.8573	11.772	12.212	12.267
.8664	11.815	12.207	12.301
.8699	11.806	12.251	12.337
.8773	11.805	12.252	12.331
.8845	11.823	12.278	12.349
.8947	11.851	12.295	12.380
.9028	11.843	12.303	12.394
.9121	11.852	12.326	12.389
.9198	11.912	12.371	12.415
.9476	11.588	11.798	11.934
.9515	11.464	11.832	11.805
.9560	11.359	11.686	11.641
.9596	11.341	11.652	11.709
.9637	11.298	11.615	11.666
.9715	11.198	11.486	11.575
.9757	11.159	11.418	11.516
.9851	11.059	11.274	11.407
.9889	11.011	11.238	11.390
.9928	10.970	11.183	11.317
.9967	10.966	11.181	11.316
40152.0014	10.983	11.188	11.327
.0062	10.982	11.190	11.335
.0107	11.001	11.150	11.344
.0153	11.015	11.224	11.365
.0197	11.035	11.250	11.406
40502.9368	11.827	12.248	12.289
.9428	11.833	12.248	12.310
.9463	11.832	12.263	12.321
.9518	11.842	12.271	12.329
.9559	11.855	12.295	12.353
.9597	11.865	12.289	12.351
.9640	11.896	12.336	12.382
.9693	11.889	12.315	12.367
.9729	11.883	12.323	12.365
.9767	11.872	12.308	12.366
.9804	11.889	12.324	12.375
.9856	11.959	12.221	12.255
.9893	11.834	12.247	12.278
.9927	11.820	12.238	12.271
.9962	11.818	12.210	12.233
40503.0020	11.696	12.081	12.058
RX FOR			
39762.8912	12.044	12.405	12.477
.8969	12.041	12.428	12.484
.9034	12.081	12.425	12.494
.9083	12.086	12.445	12.503
.9168	12.088	12.456	12.489
.9221	12.100	12.460	12.508
.9286	12.114	12.484	12.561
.9340	12.132	12.495	12.569
.9394	12.137	12.466	12.547
.9458	12.114	12.514	12.584
39887.5875	11.683	11.923	12.081
.5910	11.691	11.930	12.047
.5947	11.696	11.947	12.104
.5991	11.724	11.958	12.094
.6025	11.733	11.991	12.113
.6114	11.760	12.014	12.109
.6150	11.762	12.038	12.174
.6240	11.797	12.065	12.190
40125.8497	11.562	11.738	11.804
.8569	11.336	11.385	11.513
.8618	11.221	11.317	11.345
.8650	11.123	11.262	11.305
.8743	11.160	11.243	11.288
.8800	11.191	11.250	11.321
.8834	11.218	11.299	11.347
.8911	11.240	11.331	11.430
40126.9153	12.419	12.856	12.804

TABLE 2 (CONTINUED)

HELIO. JD 2400000 +	V	B	U
	RX FOR		
40126.9204	12.415	12.846	12.908
.9271	12.409	12.855	12.895
.9324	12.411	12.862	12.870
.9383	12.421	12.844	12.843
.9481	12.433	12.888	12.924
.9570	12.440	12.854	12.872
.9621	12.446	12.848	12.891
.9701	12.461	12.871	12.911
.9755	12.457	12.852	12.882
.9810	12.451	12.861	12.859
.9888	12.419	12.820	12.812
.9938	12.404	12.813	12.840
.9990	12.369	12.754	12.773
40127.0038	12.328	12.696	12.659
	AF HER		
39613.8787	13.210	13.586	13.587
.8831	13.222	13.616	13.652
.8891	13.229	13.615	13.692
.8926	13.245	13.654	13.687
.8967	13.228	13.633	13.667
.9113	13.283	13.714	13.729
.9161	13.305	13.700	13.792
.9203	13.331	13.730	13.757
.9272	13.339	13.757	13.784
.9349	13.339	13.784	13.793
.9384	13.340	13.750	13.771
.9453	13.352	13.786	13.771
.9509	13.353	13.763	13.812
.9571	13.365	13.798	13.827
.9655	13.337	13.789	13.726
.9710	13.325	13.730	13.774
	CE HER		
40364.8655	11.567	11.706	11.860
.8692	11.572	11.717	11.869
.8735	11.588	11.728	11.880
.8888	11.633	11.783	11.937
.8926	11.626	11.773	11.954
.9178	11.717	11.875	12.036
.9219	11.731	11.884	12.063
.9255	11.748	11.912	12.093
40387.8072	11.539	11.651	11.791
.8110	11.536	11.648	11.798
.8147	11.530	11.637	11.781
.8201	11.523	11.636	11.775
.8238	11.528	11.643	11.788
.8315	11.533	11.651	11.804
.8524	11.585	11.708	11.890
.8570	11.593	11.729	11.885
.8608	11.601	11.731	11.907
40474.7115	12.783	13.281	13.400
.7173	12.783	13.267	13.325
.7228	12.773	13.273	13.368
.7296	12.795	13.291	13.328
.7353	12.799	13.295	13.316
.7406	12.775	13.255	13.397
.7460	12.798	13.266	13.329
.7527	12.810	13.300	13.397
.7582	12.817	13.289	13.398
	XX HYA		
39831.8430	12.361	12.842	13.253
.8486	12.353	12.825	13.137
.8530	12.351	12.815	12.901
.8575	12.351	12.800	12.869
.8628	12.365	12.818	13.198
.8703	12.354	12.826	12.911
.8759	12.346	12.842	12.855
.8825	12.345	12.816	12.929
.8887	12.314	12.865	12.949
.8939	12.302	12.740	12.816
.8993	12.304	12.728	12.794
.9073	12.333	12.767	12.846
.9179	12.363	12.784	12.835
.9221	12.372	12.815	12.942
.9271	12.394	12.835	12.946
.9324	12.403	12.854	12.967
.9400	12.416	12.875	12.954
.9445	12.425	12.891	12.970
.9546	12.424	12.851	12.914
.9590	12.396	12.844	12.926
.9639	12.396	12.788	12.863
.9875	11.649	11.896	11.916
.9915	11.549	11.767	11.847
.9956	11.436	11.609	11.698
39832.0013	11.326	11.459	11.570
.0069	11.270	11.399	11.541
.0114	11.261	11.393	11.538
.0159	11.290	11.414	11.564
.0198	11.316	11.459	11.612
	DG HYA		
39951.6306	12.427	12.837	12.919
.6339	12.419	12.795	12.858
.6372	12.389	12.746	12.836
.6408	12.361	12.695	12.761
.6483	12.228	12.575	12.627
.6514	12.196	12.516	12.540
.6654	11.975	12.140	12.259
.6689	11.935	12.190	12.252
.6723	11.902	12.148	12.231
.6770	11.860	12.097	12.190
.6817	11.819	11.950	12.139
.6852	11.778	11.988	12.084

HELIO. JD 2400000 +	V	B	U
	DG HYA		
39951.6888	11.751	11.946	12.073
.7023	11.634	11.799	11.973
.7057	11.622	11.766	11.902
.7095	11.614	11.766	11.929
.7131	11.618	11.764	11.916
.7172	11.606	11.766	11.931
39969.6456	12.598	13.041	13.136
.6507	12.596	13.046	13.121
.6558	12.605	13.067	13.154
.6616	12.607	13.061	13.118
.6664	12.609	13.055	13.114
.6716	12.619	13.068	13.137
.6773	12.610	13.071	13.141
.6831	12.629	13.073	13.159
.6884	12.614	13.073	13.122
.6936	12.618	13.055	13.104
.6988	12.602	13.055	13.142
.7040	12.602	13.031	13.095
.7090	12.580	13.018	13.070
.7145	12.543	12.987	13.049
.7196	12.531	12.957	12.976
	FY HYA		
39969.7957	12.881	13.340	13.353
.8054	12.889	13.370	13.395
.8154	12.876	13.376	13.364
.8236	12.887	13.345	13.322
.8330	12.922	13.345	13.338
40022.6651	12.896	13.402	13.456
.6709	12.901	13.358	13.376
.6760	12.871	13.334	13.332
.6820	12.876	13.358	13.369
.6869	12.889	13.355	13.236
.6952	12.886	13.372	13.332
.7001	12.925	13.347	13.306
.7063	12.891	13.343	13.377
.7114	12.915	13.349	13.342
.7170	12.919	13.365	13.351
.7278	12.918	13.382	13.443
.7330	12.920	13.354	13.339
.7381	12.911	13.370	13.285
.7452	12.883	13.363	13.327
40364.6708	12.918	13.371	13.450
.6768	12.878	13.350	13.333
.6835	12.931	13.383	13.371
.6890	12.988	13.371	13.363
.6949	12.991	13.426	13.472
.7019	13.030	13.414	13.452
.7108	13.026	13.445	13.456
.7202	13.025	13.432	13.399
.7354	12.959	13.391	13.345
.7417	12.937	13.357	13.341
.7479	12.871	13.301	13.292
.7538	12.777	13.209	13.203
.7596	12.661	13.063	13.000
.7679	12.436	12.729	12.609
.7751	12.306	12.547	12.542
.7804	12.238	12.443	12.465
.7873	12.071	12.264	12.319
.7925	12.009	12.151	12.256
.7986	11.922	12.080	12.226
.8029	11.912	12.035	12.150
.8077	11.904	12.053	12.132
.8122	11.892	12.056	12.109
.8178	11.893	12.062	12.130
.8228	11.951	12.102	12.197
	HW LEO		
39832.8099	12.835	13.313	13.341
.8165	12.869	13.355	13.360
.8235	12.858	13.359	13.379
.8315	12.864	13.343	13.347
.8373	12.869	13.362	13.371
.8449	12.877	13.362	13.403
.8551	12.857	13.377	13.398
.8604	12.866	13.336	13.387
.8729	12.798	13.300	13.312
.8817	12.732	13.207	13.241
.8866	12.662	13.079	13.068
.9085	12.373	12.702	12.845
.9158	12.409	12.665	12.784
.9211	12.379	12.669	12.772
.9274	12.239	12.565	12.755
.9340	12.141	12.399	12.520
.9400	12.099	12.346	12.477
.9491	12.085	12.336	12.455
.9545	12.085	12.307	12.453
.9611	12.080	12.332	12.477
.9729	12.119	12.375	12.540
.9767	12.125	12.392	12.545
.9810	12.141	12.400	12.563
.9845	12.153	12.418	12.590
	TV LIB		
39565.8496	11.303	11.407	11.476
.8545	11.241	11.315	11.384
.8593	11.274	11.353	11.452
.8643	11.326	11.414	11.575
.8716	11.415	11.550	11.642
39599.7993	12.489	12.935	13.066
.8046	12.412	12.852	13.028
.8095	12.277	12.604	12.586
39601.9207	12.434	12.943	13.258
.9281	12.408	12.902	13.231
.9342	12.448	12.911	13.095
.9391	12.469	12.935	13.090

HELIO. JD 2400000 +	V	B	U
	TV LIB		
39601.9441	12.455	12.940	13.054
.9492	12.506	12.975	13.102
.9542	12.505	12.977	13.090
.9594	12.460	12.888	12.976
.9704	12.066	12.259	12.233
	Y LYR		
39655.7455	13.776	14.200	14.322
.7539	13.810	14.274	14.418
.7597	13.840	14.309	14.458
.7663	13.854	14.333	14.533
.7713	13.904	14.367	14.521
.7797	13.985	14.382	14.491
.7859	13.872	14.363	14.514
.7909	13.902	14.350	14.539
.7964	13.948	14.338	14.441
.8070	13.859	14.203	14.354
.8122	13.713	14.134	14.236
.8174	13.666	14.015	14.079
	V716 OPH		
39967.8310	12.525	13.220	13.502
.8382	12.475	13.169	13.435
.8453	12.408	13.105	13.359
.8508	12.354	13.018	13.306
.8566	12.276	12.922	13.187
.8679	12.063	12.653	12.901
.8717	11.990	12.554	12.966
.8760	11.912	12.442	12.747
.8795	11.826	12.317	12.648
.8839	11.700	12.204	12.553
.8966	11.466	11.898	12.232
.9002	11.416	11.845	12.164
.9038	11.378	11.789	12.103
.9088	11.340	11.736	12.067
.9123	11.315	11.711	12.030
.9173	11.294	11.691	12.000
.9210	11.283	11.674	11.987
.9246	11.279	11.667	11.973
.9285	11.272	11.676	11.996
.9318	11.284	11.667	11.980
39969.9607	12.548	13.246	13.344
.9661	12.546	13.256	13.505
.9709	12.547	13.274	13.556
.9757	12.559	13.284	13.554
.9807	12.566	13.283	13.574
.9854	12.579	13.313	13.573
39997.8907	12.593	13.324	13.613
.8948	12.596	13.321	13.609
.9002	12.592	13.324	13.581
.9059	12.602	13.342	13.573
.9143	12.608	13.344	13.575
.9211	12.605	13.334	13.549
.9289	12.600	13.345	13.622
.9350	12.590	13.332	13.591
.9473	12.574	13.274	13.566
.9538	12.532	13.266	13.472
.9593	12.502	13.234	13.434
.9659	12.496	13.211	13.462
	V816 OPH		
39655.8565	12.633	13.184	13.405
.8634	12.320	12.786	13.032
.8695	11.984	12.297	12.524
.8750	11.752	12.019	12.204
.8800	11.712	11.938	12.142
.8852	11.710	11.973	12.177
.8903	11.755	12.020	12.230
.8959	11.796	12.068	12.331
39657.6978	12.965	13.587	13.780
.7031	12.988	13.618	13.888
.7082	13.020	13.633	13.908
.7148	13.078	13.670	13.918
.7242	13.027	13.658	14.016
.7347	13.053	13.673	14.007
.7404	13.009	13.634	13.884
.7473	13.004	13.601	13.810
.7521	12.910	13.520	13.770
.7577	12.834	13.339	13.487
	RHO PUP		
39887.7527	2.824	3.272	3.446
.7541	2.826	3.265	3.450
.7554	2.832	3.275	3.457
.7563	2.838	3.272	3.453
.7579	2.843	3.260	3.462
.7612	2.839	3.285	3.453
.7624	2.839	3.274	3.466
.7631	2.846	3.286	3.467
.7637	2.844	3.281	3.469
.7687	2.860	3.285	3.475
.7695	2.852	3.286	3.472
.7713	2.862	3.299	3.481
.7747	2.864	3.299	3.484
.7772	2.862	3.303	3.490
.7820	2.865	3.304	3.482
.7845	2.868	3.300	3.481
.7870	2.865	3.297	3.478
.7957	2.860	3.285	3.468
.7982	2.857	3.282	3.452
.8009	2.854	3.278	3.455
.8038	2.849	3.274	3.456
.8087	2.835	3.253	3.430
.8115	2.834	3.249	3.424
.8145	2.831	3.240	3.412

TABLE 2 (CONTINUED)

HELIO. JD 2400000 +	V	B	U
	RHO PUP		
39887.8186	2.818	3.225	3.406
.8215	2.814	3.215	3.395
.8241	2.812	3.208	3.383
.8401	2.787	3.184	3.358
.8427	2.784	3.188	3.352
.8459	2.784	3.181	3.351
.8483	2.785	3.186	3.359
.8527	2.781	3.179	3.354
.8551	2.787	3.193	3.368
.8577	2.789	3.198	3.374
	XX VIR		
39997.6651	12.777	13.249	13.263
.6714	12.762	13.231	13.259
.6771	12.780	13.236	13.293
.6843	12.786	13.225	13.274
.6894	12.794	13.238	13.286
.7199	12.744	13.178	13.205
.7255	12.736	13.179	13.249
.7310	12.729	13.150	13.200
.7442	12.665	13.083	13.108
.7593	12.554	12.957	12.886
.7812	12.275	12.610	12.572
.7869	12.231	12.555	12.532
.7984	12.153	12.437	12.456
.8024	12.111	12.393	12.433
.8069	12.063	12.334	12.391
.8262	11.798	11.983	12.091
.8304	11.750	11.928	12.003
.8442	11.641	11.766	11.884
.8482	11.626	11.757	11.884
.8535	11.600	11.736	11.846
.8576	11.591	11.723	11.849
.8644	11.587	11.713	11.797
.8682	11.590	11.707	11.818
.8718	11.589	11.707	11.811
.8755	11.592	11.710	11.824
	AM VIR		
39600.7425	11.643	12.073	12.076

HELIO. JD 2400000 +	V	B	U
	AM VIR		
39600.7476	11.575	11.963	11.997
.7525	11.528	11.915	11.895
.7610	11.427	11.785	11.831
.7659	11.400	11.749	11.786
.7620	11.321	11.627	11.773
.7907	11.333	11.616	11.736
.7955	11.318	11.611	11.722
.8033	11.349	11.584	11.767
39613.6714	11.472	11.917	11.974
.6783	11.418	11.786	11.851
.6922	11.334	11.681	11.792
39656.6730	11.820	12.302	12.397
.6798	11.821	12.311	12.371
.6853	11.819	12.310	12.360
.6907	11.821	12.293	12.366
.6968	11.785	12.268	12.346
.7023	11.780	12.242	12.294
.7073	11.749	12.197	12.238
.7124	11.711	12.154	12.188
.7180	11.672	12.106	912.106
.7231	11.602	12.026	12.013
.7299	11.509	11.913	11.924
.7459	11.412	11.776	11.836
.7510	11.414	11.776	11.821
.7560	11.416	11.786	11.841
39950.7562	11.416	11.775	11.852
.7607	11.398	11.762	11.826
.7654	11.394	11.751	11.840
.7733	11.370	11.708	11.786
.7772	11.351	11.681	11.776
.7836	11.311	11.641	11.722
.7874	11.299	11.612	11.716
.7922	11.277	11.577	11.675
.8058	11.220	11.531	11.645
.8095	11.212	11.511	11.623
.8132	11.211	11.516	11.635
.8174	11.209	11.493	11.617
.8219	11.207	11.493	11.615
.8281	11.201	11.496	11.633
.8324	11.210	11.503	11.640
.8361	11.219	11.513	11.637
39951.8668	11.742	12.218	12.302

HELIO. JD 2400000 +	V	B	U
	AM VIR		
39951.8703	11.745	12.224	12.282
.8739	11.756	12.224	12.311
.8774	11.760	12.244	12.309
.8979	11.788	12.278	12.318
.9020	11.798	12.260	12.340
.9052	11.792	12.287	12.333
.9141	11.793	12.274	12.323
.9176	11.801	12.270	12.337
.9227	11.798	12.275	12.309
.9336	11.792	12.268	12.281
.9373	11.775	12.252	12.277
.9411	11.765	12.239	12.268
.9453	11.746	12.211	12.204
.9491	11.721	12.189	12.169
.9525	11.702	12.149	12.112
	BB VIR		
39599.6628	10.807	10.908	10.987
.6688	10.839	10.914	11.031
.6735	10.868	10.946	11.076
.6794	10.890	11.000	11.105
.6909	10.948	11.068	11.209
.6977	10.983	11.110	11.266
39613.7309	11.360	11.603	11.679
.7358	11.340	11.564	11.669
.7409	11.272	11.491	11.591
.7458	11.165	11.365	11.469
.7500	11.061	11.243	11.318
.7590	10.835	10.973	11.064
.7625	10.780	10.877	10.982
.7683	10.725	10.796	10.885
.7764	10.708	10.789	10.878
.7812	10.725	10.805	10.893
.7889	10.752	10.841	10.948
39614.6437	11.403	11.615	11.706
.6472	11.414	11.636	11.773
.6514	11.420	11.637	11.749
.6548	11.416	11.648	11.752
.6583	11.418	11.647	11.765
.6618	11.412	11.639	11.768
.6652	11.412	11.637	11.782

1977RMxAA...2..235B

TABLE 3

INDIVIDUAL MINIMA AND MAXIMA OF RR LYRAE STARS

NAME	MINIMUM LIGHT V	B-V	U-B	MAXIMUM LIGHT V	B-V	U-B	HELJD MAX 2400000 +
CC AND				9.31	+0.31	+0.11	39887.679
CC AND	9.47	+0.35	+0.12				
TZ AQR				11.57	+0.23	+0.11	39384.727
TZ AQR	12.43	+0.46	+0.12				
BO AQR	12.61	+0.45	+0.05	11.56	+0.17	+0.06	39745.938
BR AQR	11.92	+0.49	+0.07				
BR AQR				10.77	+0.11	+0.15	39414.819
BT AQR	12.84	+0.52	+0.21	11.78	+0.14	+0.15	39762.767
RW ARI				12.13	+0.30	+0.16	39422.850
RW ARI	12.58	+0.43	+0.18				
14 AUR	5.03	+0.22	+0.10	4.95	+0.20	+0.10	40125.932
UU BOO				11.51	+0.04	+0.07	39643.804
UU BOO	12.81	+0.44	+0.06				
UU BOO				11.50	+0.02	+0.02	40337.863
UY BOO				10.54	+0.22	+0.09	39522.003
UY BOO	11.23	+0.39	+0.02				
UY BOO	11.27	+0.37	+0.02				
UY BOO				10.25	+0.10	+0.11	40340.721
RZ CAM	13.30	+0.48	+0.07				
RZ CAM				12.09	+0.12	+0.12	39418.983
RZ CAM	13.29	+0.47	+0.11				
Z CVN				11.41	+0.21	+0.02	39887.915
Z CVN				11.51	+0.18	+0.12	40335.76
Z CVN	12.36	+0.33	+0.04				
RX CVN	12.97	+0.41	+0.06	12.19	+0.17	+0.10	39566.019
RZ CVN	11.92	+0.43	+0.01				
RZ CVN	11.86	+0.43	-0.01				
RZ CVN				10.88	+0.12	+0.21	40343.851
SS CVN				11.52	+0.11	+0.16	39622.705
SS CVN	12.27	+0.38	+0.02				
ST CVN				11.15	+0.17	+0.10	39625.798
ST CVN	11.44	+0.39	+0.10	11.04	+0.26	+0.17	39969.95
ST CVN	11.57	+0.24	+0.09	11.15	+0.16	+0.07	39971.92
SV CVN	13.00	+0.38	+0.01	12.20	+0.16	+0.10	39952.760
SW CVN	13.34	+0.35	+0.03	12.03	+0.03	+0.03	39555.945
DQ CEP	7.32	+0.35	+0.15	7.22	+0.33	+0.14	39792.662
RV CET	11.22	+0.47	+0.07				
RV CET	11.15	+0.47	+0.09				
RV CET				10.67	+0.29	+0.07	39827.799
RX CET				10.94	+0.17	+0.10	40125.799
RX CET	11.80	+0.44	+0.02				
RZ CET				11.25	+0.15	+0.10	39391.892
RZ CET	12.36	+0.43	+0.08				
RZ CET				11.22	+0.16	+0.13	40181.795
UU CET	12.36	+0.46	-0.01				
UU CET				11.54	+0.12	0.00	40157.64
V COM	13.80	+0.41	+0.05				
V COM	13.76	+0.39	+0.03	12.48	0.00	+0.05	40683.940
Z COM				13.14	+0.09	+0.14	39951.749
Z COM	14.29	+0.41	+0.06				
RT COM				13.73	+0.18	+0.13	39241.743
RT COM	14.49	+0.39	+0.07				
RT COM				13.62	+0.20	+0.10	39967.984
RT COM				13.40	+0.11	+0.01	40022.815
RV COM	14.32	+0.27	+0.02				
RV COM				13.87	+0.16		40344.76
RV COM				13.92	+0.20	+0.09	40357.69
RY COM				11.68	+0.06	+0.05	39598.806
RY COM	12.85	+0.40	+0.11				
RY COM	12.83	+0.44	+0.04				
ST COM				10.91	+0.18	+0.20	39983.708
ST COM	11.80	+0.47	+0.07				
W CRT	12.08	+0.48	+0.14	10.80	+0.07	+0.09	39910.867
BX DEL				11.87	+0.34	+0.32	39422.645
BX DEL	12.56	+0.65	+0.54				
DELTA DEL	4.46	+0.30	+0.09	4.38	+0.28	+0.07	40127.716

NAME	MINIMUM LIGHT V	B-V	U-B	MAXIMUM LIGHT V	B-V	U-B	HELJD MAX 2400000 +
BB ERI	11.91	+0.46	+0.05	10.96	+0.22	+0.13	40151.993
BB ERI	11.90	+0.44	+0.04				
RX FOR				11.12	+0.10	+0.06	40125.865
RX FOR	12.46	+0.40	+0.03				
AF HER				12.23	+0.13	+0.08	38527.952
AF HER	13.35	+0.44	+0.02				
CE HER				11.53	+0.11	+0.15	40387.815
CE HER	12.79	+0.49	+0.08				
UU HYA	12.73	+0.42	+0.06				
UU HYA				11.79	+0.16	+0.12	39478.934
XX HYA	12.43	+0.46	+0.08	11.26	+0.13	+0.15	39832.011
DG HYA				11.61	+0.15	+0.16	39951.713
DG HYA	12.62	+0.45	+0.07				
FY HYA	13.03	+0.41	+0.02	11.90	+0.15	+0.06	40364.812
CZ LAC				10.77	+0.46	+0.27	39394.765
CZ LAC	11.26	+0.84	+0.37				
ST LEO				10.76	+0.06	+0.09	39509.945
ST LEO	12.02	+0.44	+0.05				
SZ LEO				11.91	+0.20	+0.12	39556.742
SZ LEO	12.79	+0.46	+0.06				
WW LEO	12.87	+0.49	+0.04	12.08	+0.25	+0.12	39832.950
AA LEO				11.61	+0.09	+0.11	39596.655
AA LEO	12.83	+0.41	+0.06				
TV LIB				11.24	+0.07	+0.08	39565.854
TV LIB	12.51	+0.46	+0.13				
Y LYR				12.53	+0.05	+0.11	39055.539
Y LYR	13.90	+0.47	+0.15				
UX LYR				14.47	+0.11	+0.17	40381.88
UX LYR	15.39	+0.47	+0.22				
FN LYR				11.91	+0.15	+0.12	39416.643
FN LYR	13.23	+0.48	+0.05				
V452 OPH	12.63	+0.58	+0.22	11.69	+0.32	+0.25	39622.892
V716 OPH				11.28	+0.39	+0.31	39967.925
V716 OPH	12.60	+0.74	+0.25				
V784 OPH	12.96	+0.56	+0.17				
V784 OPH	12.95	+0.57	+0.14	11.85	+0.26	+0.23	40358.954
V816 OPH				11.71	+0.25	+0.18	39655.880
V816 OPH	13.04	+0.63	+0.26				
BP PEG	12.17	+0.40	+0.18	11.69	+0.23	+0.20	39416.739
RY PSC				11.82	+0.20	+0.13	39422.772
RY PSC	12.72	+0.42	+0.08				
SS PSC				10.78	+0.25	+0.21	39391.795
SS PSC	11.16	+0.38	+0.20				
RHO PUP	2.87	+0.43	+0.19	2.78	+0.40	+0.17	39887.843
BF SER				11.05	+0.06	-0.02	39998.746
BF SER	12.56	+0.43	+0.06				
CW SER				11.61	+0.27	+0.16	39970.894
CW SER				11.59	+0.23	+0.18	39973.914
CW SER	12.06	+0.38	+0.16				
CW SER				11.62	+0.24	+0.12	39980.913
CW SER	12.02	+0.40	+0.13				
UV VIR	12.27	+0.44	+0.03				
UV VIR				11.36	+0.08	+0.18	39992.720
XX VIR	12.78	+0.46	+0.04	11.59	+0.12	+0.10	39997.868
AF VIR				10.94	+0.14	+0.06	40333.771
AF VIR	12.01	+0.21	+0.14				
AM VIR				11.21	+0.29	+0.12	39950.820
AM VIR	11.80	+0.47	+0.06				
AV VIR				11.42	+0.23	+0.12	39517.947
AV VIR	12.16	+0.46	+0.10				
AV VIR	12.14	+0.46	+0.09				
BB VIR				10.71	+0.08	+0.09	39613.776
BB VIR	11.42	+0.23	+0.12				
BC VIR	12.56	+0.36	+0.06				
BC VIR	12.66	+0.29	+0.05				

TABLE 4

OBSERVATIONAL DATA ON RR LYRAE STARS

NAME	PERIOD	M-m/P	ΔV	MINIMUM LIGHT V	MINIMUM LIGHT B-V	MINIMUM LIGHT U-B	MAXIMUM LIGHT V	MAXIMUM LIGHT B-V	MAXIMUM LIGHT U-B	REMARKS
SW AND	0.442	0.18	0.95	10.09	+0.52	+0.21	9.14	+0.21	+0.18	
XX AND	0.722	0.17	0.96	11.13	+0.43	+0.06	10.17	+0.17	+0.15	
AT AND	0.617	0.21	0.50	10.92	+0.56	+0.09	10.42	+0.42	+0.17	
CC AND	0.125	0.40	0.16	9.47	+0.35	+0.12	9.31	+0.31	+0.11	A,P
WY ANT	0.574	0.15	0.89	11.23	+0.43	+0.02	10.34	+0.17	+0.12	
SW AQR	0.459	0.13	1.29	11.68	+0.43	+0.09	10.39	+0.10	+0.10	
SX AQR	0.536	0.13	1.14	12.19	+0.34	+0.05	11.05	+0.09	+0.08	
TZ AQR	0.571	0.20	0.86	12.43	+0.46	+0.12	11.57	+0.23	+0.11	
BO AQR	0.694	0.17	1.05	12.61	+0.45	+0.05	11.56	+0.17	+0.06	
BR AQR	0.482	0.13	1.15	11.92	+0.49	+0.07	10.77	+0.11	+0.15	
BS AQR	0.198	0.30	0.45	9.61	+0.39	+0.10	9.16	+0.22	+0.09	
BT AQR	0.407	0.15	1.06	12.84	+0.52	+0.21	11.78	+0.14	+0.15	P
CY AQR	0.061	0.33	0.71	11.14	+0.35	+0.00	10.43	+0.16	+0.14	
AA AQL	0.362	0.17	1.34	12.34	+0.55	+0.20	11.00	+0.05	+0.14	
V341 AQL	0.578	0.14	1.22	11.35	+0.47	+0.09	10.13	+0.10	+0.14	
X ARI	0.651	0.15	0.94	9.91	+0.56	+0.12	8.97	+0.28	+0.20	
RV ARI	0.093	0.50	0.41	12.26	+0.44	+0.10	11.85	+0.29	+0.16	A,P
RW ARI	0.261	0.50	0.45	12.58	+0.43	+0.18	12.13	+0.30	+0.16	E,P
TZ AUR	0.392	0.14	1.31	12.45	+0.48	+0.14	11.14	+0.08	+0.08	
14 AUR	0.122	0.50	0.08	5.03	+0.22	+0.10	4.95	+0.20	+0.10	A,P
RS BOO	0.377	0.19	1.12	10.85	+0.46	+0.17	9.73	+0.09	+0.12	
RU BOO	0.493	0.13	1.21	14.18	+0.44	+0.09	12.97	+0.09	+0.13	
ST BOO	0.622	0.21	0.92	11.41	+0.41	+0.03	10.49	+0.12	+0.11	
SV BOO	0.581	0.17	0.74	13.52	+0.44	+0.11	12.78	+0.17	+0.16	
SW BOO	0.514	0.13	1.12	12.88	+0.39	+0.06	11.76	+0.09	+0.12	
SZ BOO	0.523	0.12	1.13	13.05	+0.35	+0.08	11.92	+0.11	+0.10	
TV BOO	0.313	0.36	0.59	11.30	+0.22	+0.04	10.71	+0.10	+0.13	
TW BOO	0.532	0.13	1.05	11.68	+0.40	+0.05	10.63	+0.12	+0.12	
UU BOO	0.457	0.10	1.31	12.81	+0.44	+0.06	11.50	+0.03	+0.04	P
UY BOO	0.651	0.18	1.00	11.25	+0.38	+0.02	10.25	+0.10	+0.11	A,P
YZ BOO	0.104	0.32	0.39	10.75	+0.31	+0.04	10.36	+0.18	+0.08	
RZ CAM	0.480	0.05	1.21	13.30	+0.48	+0.09	12.09	+0.12	+0.12	P
RW CNC	0.547						11.60	+0.24	+0.08	
SS CNC	0.367	0.13	1.23	12.72	+0.52	+0.24	11.49	+0.09	+0.13	
TT CNC	0.563	0.16	1.05	11.78	+0.48	+0.10	10.73	+0.24	+0.19	
VZ CNC	0.178	0.27	0.67	7.91	+0.37	+0.10	7.24	+0.17	+0.14	A,P
W CVN	0.552	0.17	0.84	10.90	+0.42	+0.10	10.06	+0.15	+0.17	
Z CVN	0.653		0.90	12.36	+0.33	+0.04	11.46	+0.20	+0.07	A,P
RR CVN	0.559	0.15	1.21	13.10	+0.45	+0.08	11.89	+0.09	+0.10	
RU CVN	0.573	0.13	1.12	12.48	+0.39	+0.02	11.36	+0.10	+0.11	
RX CVN	0.540	0.17	0.78	12.97	+0.41	+0.06	12.19	+0.17	+0.10	
RZ CVN	0.567	0.17	1.01	11.89	+0.43	+0.00	10.88	+0.12	+0.21	P
SS CVN	0.479	0.15	0.75	12.27	+0.38	+0.02	11.52	+0.11	+0.16	
ST CVN	0.329	0.45	0.39	11.50	+0.31	+0.09	11.11	+0.20	+0.11	A
SV CVN	0.668	0.16	0.80	13.00	+0.38	+0.01	12.20	+0.16	+0.10	P
SW CVN	0.442	0.12	1.31	13.34	+0.35	+0.03	12.03	+0.03	+0.03	
RV CAP	0.448	0.15	1.35	11.57	+0.42	+0.10	10.22	+0.06	+0.12	A
YZ CAP	0.273	0.40	0.46	11.52	+0.33	+0.08	11.06	+0.20	+0.19	
RZ CEP	0.309	0.32	0.49	9.68	+0.56	+0.24	9.19	+0.40	+0.30	
DQ CEP	0.079	0.50	0.10	7.32	+0.35	+0.15	7.22	+0.33	+0.14	A,P
RR CET	0.553						9.15	+0.18	+0.14	
RV CET	0.623	0.19	0.52	11.19	+0.47	+0.08	10.67	+0.29	+0.07	P
RX CET	0.574	0.14	0.86	11.80	+0.44	+0.02	10.94	+0.17	+0.10	
RZ CET	0.511	0.25	1.12	12.36	+0.43	+0.08	11.24	+0.16	+0.12	
UU CET	0.606	0.20	0.82	12.36	+0.46	-0.01	11.54	+0.12	+0.00	P
S COM	0.587	0.14	1.24	12.13	+0.40	+0.04	10.89	+0.08	+0.10	
U COM	0.293	0.35	0.47	11.97	+0.26	+0.08	11.50	+0.14	+0.11	
V COM	0.469	0.08	1.28	13.76	+0.39	+0.03	12.48	+0.00	+0.05	P
Z COM	0.547	0.13	1.15	14.29	+0.41	+0.06	13.14	+0.09	+0.14	P
RT COM	0.565	0.19	0.87	14.49	+0.39	+0.07	13.62	+0.20	+0.10	A,P
RV COM	0.350	0.40	0.42	14.32	+0.27	+0.02	13.90	+0.18	+0.09	
RY COM	0.469	0.20	1.16	12.84	+0.42	+0.07	11.68	+0.06	+0.05	
ST COM	0.599		0.89	11.80	+0.47	+0.07	10.91	+0.18	+0.20	P
RV CRB	0.332	0.36	0.56	11.70	+0.30	+0.04	11.14	+0.17	+0.16	
W CRT	0.412	0.14	1.28	12.08	+0.48	+0.14	10.80	+0.07	+0.09	
X CRT	0.733	0.18	0.64	11.76	+0.43	+0.02	11.12	+0.23	+0.08	
UY CYG	0.561	0.16	0.87	11.46	+0.55	+0.12	10.59	+0.26	+0.18	
XX CYG	0.135	0.20	0.85	12.13	+0.40	+0.08	11.28	+0.12	+0.12	
XZ CYG	0.467	0.19	0.92	10.04	+0.35	+0.05	9.12	+0.11	+0.13	
OM CYG	0.420	0.13	1.04	11.97	+0.56	+0.23	10.93	+0.17	+0.26	
BX DEL	1.092	0.20	0.69	12.56	+0.65	+0.54	11.87	+0.34	+0.32	P
DX DEL	0.473	0.19	0.74	10.26	+0.53	+0.20	9.52	+0.27	+0.18	
DELTA DEL	0.157	0.50	0.08	4.46	+0.30	+0.09	4.38	+0.28	+0.07	A,P
RW DRA	0.443	0.21	0.98	12.03	+0.38	+0.06	11.05	+0.02	+0.14	
SU DRA	0.660	0.16	1.00	10.27	+0.41	+0.04	9.27	+0.11	+0.14	
SW DRA	0.570	0.18	1.00	10.94	+0.43	+0.09	9.94	+0.16	+0.16	
XZ DRA	0.476	0.20	1.05	10.64	+0.45	+0.13	9.59	+0.12	+0.13	
RX ERI	0.587	0.16	0.88	10.10	+0.53	+0.09	9.22	+0.21	+0.21	
SV ERI	0.714	0.30	0.59	10.22	+0.45	+0.11	9.63	+0.33	+0.15	
BB ERI	0.570	0.12	0.95	11.91	+0.46	+0.05	10.96	+0.22	+0.13	P
RX FOR	0.597	0.14	1.34	12.46	+0.40	+0.03	11.12	+0.10	+0.06	P
SS FOR	0.495	0.14	1.08	10.57	+0.35	+0.04	9.49	+0.07	+0.02	
RR GEM	0.397	0.12	1.22	11.88	+0.50	+0.22	10.66	+0.12	+0.11	
SZ GEM	0.501	0.12	1.24	12.22	+0.41	+0.05	10.98	+0.09	+0.16	
SW HER	0.493	0.10	1.21	14.73	+0.40	+0.05	13.52	+0.12	+0.09	
TW HER	0.400	0.14	1.28	11.80	+0.49	+0.15	10.52	+0.08	+0.10	

REMARKS: A=VARIABLE AMPLITUDE, P=VARIABLE PERIOD, E=ECLIPSING SYSTEM.

TABLE 4 (CONTINUED)

NAME	PERIOD	M-m/P	ΔV	MINIMUM LIGHT V	MINIMUM LIGHT B-V	MINIMUM LIGHT U-B	MAXIMUM LIGHT V	MAXIMUM LIGHT B-V	MAXIMUM LIGHT U-B	REMARKS
VX HER	0.455	0.20	1.31	11.20	+0.42	+0.07	9.89	+0.09	+0.08	
VZ HER	0.440	0.13	1.29	12.01	+0.39	+0.06	10.72	+0.05	+0.08	
AF HER	0.630	0.10	1.12	13.35	+0.44	+0.02	12.23	+0.13	+0.08	
AG HER	0.649	0.14	1.25	13.24	+0.39	+0.03	11.99	+0.07	+0.12	
AR HER	0.470	0.20	0.92	11.63	+0.33	+0.03	10.71	+0.08	+0.12	
CE HER	1.209	0.11	1.26	12.79	+0.49	+0.08	11.53	+0.11	+0.15	
DY HER	0.149	0.28	0.48	10.63	+0.42	+0.16	10.15	+0.26	+0.15	
SV HYA	0.479	0.17	1.03	10.94	+0.44	+0.06	9.91	+0.13	+0.11	P
SZ HYA	0.537	0.16	1.40	11.84	+0.47	+0.13	10.44	+0.07	+0.04	A,P
UU HYA	0.524	0.14	0.94	12.73	+0.42	+0.06	11.79	+0.16	+0.12	
VX HYA	0.223	0.25	0.51	10.88	+0.40	+0.09	10.37	+0.24	+0.12	A,P
WZ HYA	0.538	0.16	1.01	11.28	+0.45	+0.09	10.27	+0.18	+0.17	
XX HYA	0.508	0.12	1.17	12.43	+0.46	+0.08	11.26	+0.13	+0.15	P
DG HYA	0.430	0.15	1.01	12.62	+0.45	+0.07	11.61	+0.15	+0.16	P
DH HYA	0.488	0.13	1.24	12.60	+0.42	+0.07	11.36	+0.14	+0.11	
FY HYA	0.637	0.15	1.13	13.03	+0.41	+0.02	11.90	+0.15	+0.06	P
CZ LAC	0.432		0.49	11.26	+0.84	+0.37	10.77	+0.46	+0.27	A
DE LAC	0.254	0.33	0.32	10.41	+0.54	+0.22	10.09	+0.42	+0.21	
RR LEO	0.452	0.13	1.30	11.24	+0.41	+0.08	9.94	+0.07	+0.12	
RV LEO	0.515	0.14	1.15	14.41	+0.37	+0.05	13.26	+0.14	+0.10	
RX LEO	0.653	0.23	0.71	12.27	+0.44	+0.04	11.56	+0.20	+0.13	
SS LEO	0.626	0.12	1.14	11.56	+0.42	+0.04	10.42	+0.12	+0.11	
ST LEO	0.478	0.21	1.26	12.02	+0.44	+0.05	10.76	+0.06	+0.09	P
SZ LEO	0.534	0.33	0.88	12.79	+0.46	+0.06	11.91	+0.20	+0.12	
TV LEO	0.402	0.12	1.10	12.56	+0.44	+0.05	11.46	+0.12	+0.16	
WW LEO	0.603	0.17	0.79	12.87	+0.49	+0.04	12.08	+0.25	+0.12	P
AA LEO	0.599	0.14	1.22	12.83	+0.41	+0.06	11.61	+0.09	+0.11	
V LMI	0.544	0.15	1.13	12.23	+0.44	+0.07	11.10	+0.11	+0.07	
X LMI	0.684	0.17	1.05	12.81	+0.44	+0.04	11.76	+0.14	+0.11	
U LEP	0.581	0.13	1.21	11.11	+0.38	+0.02	9.90	+0.08	+0.06	
TV LIB	0.270	0.12	1.27	12.51	+0.46	+0.13	11.24	+0.07	+0.08	
EH LIB	0.088	0.29	0.53	10.01	+0.34	+0.07	9.48	+0.18	+0.11	
Y LYR	0.503	0.15	1.32	13.90	+0.47	+0.15	12.58	+0.05	+0.11	
RR LYR	0.567	0.19	0.95	8.08	+0.44	+0.04	7.13	+0.16	+0.13	A,P
RZ LYR	0.511	0.14	1.10	12.02	+0.42	+0.06	10.92	+0.17	+0.10	A,P
UX LYR	0.543	0.10	0.92	15.39	+0.47	+0.22	14.47	+0.11	+0.17	
FN LYR	0.527	0.13	1.32	13.23	+0.48	+0.05	11.91	+0.15	+0.12	
KX LYR	0.441	0.19	1.05	11.43	+0.48	+0.16	10.38	+0.10	+0.17	
ST OPH	0.450	0.16	1.35	12.74	+0.67	+0.18	11.39	+0.28	+0.23	
V445 OPH	0.397	0.18	0.86	11.39	+0.74	+0.37	10.53	+0.41	+0.31	
V452 OPH	0.557	0.13	0.94	12.63	+0.58	+0.22	11.69	+0.32	+0.25	
V567 OPH	0.130	0.40	0.33	11.41	+0.66	+0.35	11.08	+0.52	+0.35	
V716 OPH	1.116	0.13	1.32	12.60	+0.74	+0.15	11.28	+0.39	+0.31	
V784 OPH	0.500	0.15	1.10	12.95	+0.56	+0.15	11.85	+0.26	+0.23	
V816 OPH	0.381	0.16	1.33	13.04	+0.63	+0.26	11.71	+0.25	+0.18	
VV PEG	0.488	0.12	1.18	12.31	+0.40	+0.02	11.13	+0.13	+0.10	
AV PEG	0.390	0.17	0.99	10.88	+0.54	+0.21	9.89	+0.18	+0.19	
BH PEG	0.641	0.20	0.75	10.74	+0.51	+0.10	9.99	+0.27	+0.10	
BP PEG	0.219	0.15	0.48	12.17	+0.40	+0.18	11.69	+0.23	+0.20	
CG PEG	0.467	0.17	0.89	11.53	+0.54	+0.18	10.64	+0.22	+0.20	
DH PEG	0.256	0.26	0.54	9.79	+0.34	+0.17	9.25	+0.26	+0.21	A
DY PEG	0.073	0.29	0.55	10.58	+0.35	+0.10	10.03	+0.21	+0.14	
TU PER	0.607	0.16	1.11	13.05	+1.02	+0.60	11.94	+0.68	+0.46	A
AR PER	0.426	0.18	0.90	10.84	+0.78	+0.41	9.94	+0.43	+0.35	
RU PSC	0.390	0.48	0.42	10.40	+0.35	+0.07	9.98	+0.22	+0.14	
RY PSC	0.530	0.15	0.90	12.72	+0.42	+0.08	11.82	+0.20	+0.13	
SS PSC	0.288	0.50	0.38	11.16	+0.38	+0.20	10.78	+0.25	+0.21	
XX PUP	0.517	0.13	1.28	11.77	+0.41	+0.07	10.49	+0.07	+0.15	
BB PUP	0.480	0.14	0.96	12.55	+0.56	+0.13	11.59	+0.30	+0.18	
RHO PUP	0.141	0.50	0.09	2.87	+0.43	+0.19	2.78	+0.40	+0.17	
V440 SGR	0.477	0.15	1.13	10.73	+0.50	+0.12	9.60	+0.16	+0.10	
RU SCL	0.493	0.12	1.29	10.75	+0.41	+0.07	9.46	+0.07	+0.08	
VY SER	0.714	0.20	0.69	10.46	+0.44	+0.04	9.77	+0.22	+0.09	
AN SER	0.522	0.20	1.01	11.43	+0.53	+0.22	10.42	+0.17	+0.20	
AP SER	0.254	0.45	0.42	11.30	+0.34	+0.07	10.88	+0.19	+0.13	
AR SER	0.330						11.69	+0.22	+0.09	
AT SER	0.747	0.20	0.92	11.92	+0.42	+0.06	11.00	+0.18	+0.10	
AV SER	0.488	0.14	1.16	12.00	+0.51	+0.22	10.84	+0.23	+0.21	
BF SER	1.165	0.11	1.51	12.56	+0.43	+0.06	11.05	+0.06	-0.02	
CW SER	0.189	0.40	0.43	12.04	+0.39	+0.15	11.61	+0.24	+0.15	P
T SEX	0.325	0.42	0.47	10.29	+0.31	+0.10	9.82	+0.22	+0.18	
SS TAU	0.370	0.15	1.10	13.02	+0.66	+0.32	11.92	+0.33	+0.24	
U TRI	0.447	0.16	1.32	13.20	+0.50	+0.16	11.88	+0.15	+0.08	A
RV UMA	0.468	0.20	1.12	11.23	+0.41	+0.07	10.11	+0.06	+0.11	
SX UMA	0.307	0.38	0.56	11.14	+0.24	+0.04	10.58	+0.12	+0.14	A
TU UMA	0.558	0.16	0.98	10.24	+0.41	+0.07	9.26	+0.15	+0.15	
ST VIR	0.411	0.12	1.24	12.08	+0.42	+0.08	10.84	+0.07	+0.08	
UU VIR	0.476	0.16	1.16	11.07	+0.45	+0.06	9.91	+0.10	+0.10	
UV VIR	0.587	0.21	0.91	12.27	+0.44	+0.03	11.36	+0.08	+0.18	P
XX VIR	1.348	0.14	1.19	12.78	+0.46	+0.04	11.59	+0.12	+0.10	
AF VIR	0.484	0.30	1.07	12.01	+0.21	+0.14	10.94	+0.14	+0.06	A,P
AM VIR	0.615	0.21	0.59	11.80	+0.47	+0.06	11.21	+0.29	+0.12	P
AS VIR	0.553	0.13	0.92	12.34	+0.42	+0.09	11.42	+0.16	+0.15	P
AT VIR	0.526	0.11	1.16	11.79	+0.39	+0.04	10.63	+0.10	+0.11	
AU VIR	0.343	0.34	0.45	11.86	+0.27	+0.04	11.41	+0.14	+0.11	
AV VIR	0.657	0.18	0.73	12.15	+0.46	+0.10	11.42	+0.23	+0.12	P
BB VIR	0.471	0.13	0.71	11.42	+0.23	+0.12	10.71	+0.08	+0.09	
BC VIR	0.565			12.61	+0.32	+0.06				P

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