

# PHOTOELECTRIC PHOTOMETRY OF CEPHEID VARIABLE STARS

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## RESUMEN

En este trabajo presentamos un catálogo de aproximadamente 10,000 observaciones fotoeléctricas de estrellas variables del tipo Cefeida, que es el resultado de nuestras propias observaciones y de datos obtenidos de las publicaciones de otros observadores. Este es el primer catálogo que contiene información en UBV para Cefeidas en toda la Vía Láctea. El catálogo contiene datos para más de 300 estrellas; de éstas, aproximadamente 230 pueden ser consideradas como "bien observadas".

Como una ilustración de los datos contenidos en nuestro catálogo, proporcionamos gráficas para 93 estrellas.

## ABSTRACT

We present here a catalogue of approximately 10,000 photoelectric observations of Cepheid variable stars, from our own work and from data transformed from the publications of other observers. This is the first catalogue which contains UBV data for Cepheids all around the Milky Way. The catalogue contains data on more than 300 stars; of these approximately 230 can be classed as "well-observed".

As an illustration of the data contained in our catalogue, we show graphs for 93 stars.

### *I. Introduction*

There have now been published many photoelectric observations on Cepheid variable stars. Among these data are observations made in both the Northern and Southern Hemispheres, and analysis of the data for these stars should provide us with perhaps the best information about galactic rotation that we can obtain at the present time. Unfortunately, however, the published data are on several photometric systems and it has been found that the problems of comparison between the several series of observations, both Southern and Northern, are a serious contretemps in the analysis. In an effort to ameliorate this exigency, we have made new UBV photoelectric observations on many of the Cepheid stars in the published lists. These data permit us to make accurate transformations of the previously published data to the UBV system. In addition, we have made observations on a number of important stars that were not included in any of the published catalogues, or which were not adequately observed prior to our work. We have added approximately 2,000 observations.

### *II. Reduction Procedures*

Since we have observed Cepheid stars in common with all the published lists, we are in a position to make the transformations to the UBV system based upon the Cepheids, themselves; it is not necessary for us to assume that transformations based on other kinds of stars are valid for these. We have found it convenient, however, to assume that transformations based upon other stars are approximately valid also for the Cepheids, thus reducing the size of the corrections to the Standard System. The corrections for individual stars were determined by superposition of plots of the published data, and ours; only stars with well-determined light curves in both lists were used for this purpose.

There are 16 stars, whose data meet our requirements, in common with our work and that of Weaver, Steinmetz and Mitchell (1961). Almost all of the residuals in V and B-V are zero (exceptions are RZ Gem and UX Per, both with  $\Delta(B - V) = + 0.02$  mag. The average residual in U-B is  $\pm 0.002$  (p. e.) mag., from 14 stars. (The U-B residual for AP Cas has been rejected since the Lowell data are suspect.) Since no significant differences were found between our data and that of Weaver, et al, these two lists together have been adopted as the definition of the Standard System for the Cepheids.

Of the 51 Cepheids observed by Oosterhoff (1960), 27 have been compared with the Standard System. The corrections are:

$$\begin{aligned} V &= V_o + 0.012 \pm 0.002 \text{ (p. e.) mag.,} \\ B-V &= (B-V)_o + 0.017 \pm 0.002 \text{ (p. e.) mag.,} \\ U-V &= (U-B)_o + 0.033 \pm 0.004 \text{ (p. e.) mag.} \end{aligned}$$

In the list of BV photometry by Bahner, Hiltnér and Kraft (1962), there are 29 stars which we have compared with the Standard System. The corrections are:

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$$V = V_{\text{BHK}} + 0.006 \pm 0.004 \text{ (p. e.) mag.,}$$

$$B-V = B-V_{\text{BHK}} - 0.024 \pm 0.002 \text{ (p. e.) mag.}$$

Our transformation differs from that given by Bahner, et al, for their comparison with the data of Weaver, et al. Fourteen additional stars have been included in our determination.

We have selected 19 stars from Irwin's (1961) data, for comparison with the Standard System. The sample contains stars as far south as declination  $-35^\circ$  and includes stars from both ends of the Milky Way that can be observed from the Northern Hemisphere. The corrections are:

$$V = V_i + 0.011 \pm 0.004 \text{ (p. e.) mag.,}$$

$$B-V = (B-V)_i + 0.017 \pm 0.004 \text{ (p. e.) mag.}$$

The transformation of Irwin's  $(U-B)_e$  colors to the  $U-B$  system is poorly defined by the Cepheid data. For these data, the comparison method was modified in the sense that the maximum of the light curve was compared with the Standard System maximum and the minimum, with the Standard System minimum. The problem was complicated by the inhomogeneity of the data, due to the difference between Irwin's refractor and reflector observations. The two transformations are:

$$U-B = -1.066 + 0.533 (B-V)_i + 0.648 (U-B)_i \text{ (Cape refractor),}$$

$$U-B = -2.347 + 0.055 (B-V)_i + 1.502 (U-B)_i \text{ (Radcliffe reflector).}$$

These transformations are uncertain, but they are the best we were able to obtain from the data.

The transformations from the data of Walraven, Muller and Oosterhoff (1958) to the Standard System are:

$$V = 10.654 - 2.495 \log I_v - 0.0772 \Delta \log I,$$

$$B-V = 1.229 - 2.304 \Delta \log I.$$

Because of the early epoch of Eggen's observations, they are still valuable even though UBV data are available for all 33 stars in his list. Eggen's data were first transformed by the equations given by Sandage (1960), and then compared graphically with the Standard System. We had considerable difficulty with the transformations for these data and finally decided upon the following equations:

$$V = -0.087 - 1.046 C_p + 1.029 P_{k_p} + (0.129 - 0.099 C_p) \log p \text{ (days),}$$

$$B-V = -0.079 + 1.167 C_p + 0.0109 P_{k_p} + (0.111 - 0.115 C_p) \log p \text{ (days).}$$

Five of the stars, FN Aql, SU Cyg,  $\zeta$  Gem, Z Lac, and W Sgr, deviate somewhat in amplitude and shape of the light curve from the BV curves, even after application of this transformation.

Twenty-six Cepheids from the list of Eggen, Gascoigne and Burr (1957) were compared with the Standard System. The following transformations were determined:

$$V = V_e + 0.042,$$

$$B-V = + 0.155 + 0.9638 (P-V)$$

No corrections were applied to the UBV observations reported by other authors except for BL Her, for which the V data by Abt and Hardie (1960) were corrected by  $+0.05$  mag., and for U Sgr, for which the data by Sandage (1960) were corrected as follows:  $V = V_s - 0.04$ ,  $B-V = (B-V)_s - 0.01$ ,  $U-B = (U-B)_s - 0.04$ . The corrections for U Sgr were derived from a comparison of Sandage's data on the cluster, M25, with that of Johnson (1960).

### III. The catalogue

The catalogue is divided into two tables. Table 1 contains the well-observed stars. Table 2 contains unconfirmed data, i. e., those stars for which the range in phase does not cover enough of the light curve to confirm that light and color change appropriately.

In the catalogue, the stars are ordered alphabetically by the abbreviation of the constellation name. The columns give the Julian Day, Cycles [Cycles + Phase =  $(J. D. - 2430000)/P$ ], the V magnitude,  $B-V$ ,  $U-B$  and, in the last column, the number of the reference in the list of references at the end of the tables. A minus sign in the "RF" column indicates the original author gave lower weight to these observations (if a  $U-B$  observation is given, it is the  $U-B$  which is in doubt). The periods were taken from Kukarkin, et. al. (1958).

TABLE 1  
THE CEPHEID PHOTOMETRY

T ANT					T ANT					CONT.				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF			
4562.210	771.974	9.75	0.87		7	7656.913	1295.630	9.44	0.83	0.48	1			
4575.194	774.171	8.91	0.51		-7	7661.839	1296.463	9.29	0.75	0.42	1			
4579.217	774.851	9.82	0.98		-7	7663.858	1296.805	9.87	0.73	0.61	1			
4833.393	817.861	9.75	0.94		7									
4906.324	830.201	9.10	0.69		7									
								η AQL HD 187929						
4917.275	832.054	8.92	0.51		7									
5163.404	873.702	9.67	0.95	0.68	5	J.D.	CYCLES	V	B-V	U-B	RF			
5177.387	876.068	8.92	0.59	0.33	-5									
5185.466	877.435	9.38	0.85	0.58	5	2774.858	386.651	4.06	0.83		8			
5194.487	878.962	8.93	0.49		7	2777.802	387.062	3.79	0.79		8			
						2778.792	387.200	3.97	0.84		8			
5208.398	881.315	9.29	0.83	0.54	5	2789.840	388.739	3.71	0.68		8			
5224.389	884.021	8.95	0.51		7	2790.836	388.878	3.57	0.64		8			
5238.336	886.381	9.37	0.82	0.55	5									
5246.290	887.727	9.76	0.93	0.67	-5	2791.840	389.018	3.77	0.79		8			
5256.291	889.419	9.41	0.83	0.58	5	2792.830	389.156	3.79	0.81		8			
						2841.658	395.959	3.66	0.71		8			
5257.279	889.587	9.59	0.93	0.66	5	3102.828	432.351	4.10	1.02		8			
5267.256	891.275	9.30	0.79	0.54	5	3103.821	432.489	4.29	1.03		8			
5275.214	892.621	9.68	0.94	0.57	6									
5292.226	895.500	9.52	0.90	0.61	5	3116.852	434.305	4.02	0.98		8			
5532.515	936.159	9.41	0.76		7	3131.803	436.388	4.12	1.01		8			
						3132.733	436.518	4.29	1.00		8			
5535.449	936.656	9.75	0.91		7	3133.750	436.660	4.08	0.79		8			
5555.474	940.044	9.12	0.66		7	3134.792	436.805	3.51	0.59		8			
5568.423	942.235	9.37	0.80		7									
5573.448	943.086	9.23	0.70		7	3136.803	437.085	3.77	0.80		8			
5574.337	943.236	9.38	0.82		7	3137.758	437.218	3.96	0.89		8			
						3152.774	439.311	4.04	0.97		8			
5580.362	944.256	9.40	0.81		7	3153.778	439.450	4.20	1.02		8			
5595.350	946.792	9.16	0.67		7	3154.796	439.592	4.22	0.95		8			
5608.308	948.984	9.07	0.62		7									
5609.335	949.158	9.33	0.78		7	3158.708	440.137	3.82	0.78		8			
5611.324	949.495	9.73	0.91		7	3159.729	440.280	3.99	0.94		8			
						3178.680	442.920	3.60	0.68		8			
5612.292	949.659	9.73	0.86		7	3179.678	443.059	3.75	0.81		8			
5616.294	950.336	9.46	0.84		7	3180.677	443.199	3.93	0.89		8			
5619.274	950.840	8.90	0.51		-7									
5620.265	951.008	9.11	0.63		7	3200.655	445.982	3.82	0.74		8			
5622.228	951.340	9.46	0.85		7	3206.660	446.819	3.51	0.61		8			
						5242.649	730.516	4.32	1.03	0.79	5			
5623.310	951.523	9.71	0.90		7	5256.602	732.460	4.28	1.04	0.81	5			
5624.217	951.676	9.66	0.84		7	5292.507	737.463	4.32	1.04	0.81	5			
5626.229	952.017	9.14	0.66		7									
5627.220	952.185	9.34	0.80		7	5302.531	738.860	3.50	0.62		7			
5629.240	952.526	9.74	0.92		7	5304.470	739.130	3.79	0.83	0.58	6			
						5305.405	739.260	4.05	0.95	0.69	6			
5630.280	952.702	9.55	0.77		7	5306.417	739.401	4.19	1.02	0.77	6			
5631.262	952.869	8.93	0.51		7	5309.414	739.819	3.51	0.62	0.36	6			
5632.210	953.029	9.15	0.67		7									
5634.200	953.366	9.55	0.87		7	5310.426	739.960	3.66	0.74	0.47	6			
5636.205	953.705	9.51	0.76		7	5315.495	740.666	3.97	0.85		7			
						5331.442	742.888	3.51	0.62		7			
5637.254	953.882	8.96	0.54		7	5348.329	745.241	3.95	0.91		7			
5638.235	954.048	9.11	0.70		7	5652.406	787.612	4.16	0.93		7			
5639.192	954.210	9.44	0.83		7									
5640.207	954.382	9.57	0.88		7	5654.379	787.887	3.53	0.62		7			
5641.200	954.550	9.70	0.94		7	5660.596	788.753	3.63	0.68		7			
						5661.443	788.871	3.55	0.63		7			
5642.194	954.718	9.72	0.80		-7	5668.489	789.853	3.50	0.58		7			
5643.270	954.900	9.00	0.53		7	5681.384	791.650	4.07	0.84		7			
5644.214	955.060	9.19	0.71		7									
5647.195	955.565	9.75	0.92		7	5682.349	791.784	2.82	0.60		-7			
7626.952	1290.560	9.34	0.82	0.44	1	7147.780	995.979	3.68	0.75	0.45	1			
						7148.819	996.123	3.80	0.81	0.52	1			
7653.940	1295.127	8.89	0.50	0.28	1	7149.833	996.265	4.03	0.94	0.65	1			
7654.905	1295.290	9.04	0.62	0.36	1	7206.711	1004.190	3.83	0.85	0.59	1			

TABLE 1 (continued)

$\eta$	AQL	HD 187929	CONT.	U	AQL	CONT.					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7213.729	1005.168	3.73	0.86	0.56	1	7213.674	1027.014	6.38	1.02	0.70	1
7215.631	1005.433	4.18	1.04	0.76	1	7221.635	1028.147	6.38	1.08	0.72	1
7233.621	1007.940	3.65	0.68	0.43	1	7451.908	1060.931	6.26	0.99	0.66	1
7237.606	1008.495	4.30	1.03	0.76	1	7469.903	1063.493	6.89	1.24	0.94	1
7239.592	1008.772	3.63	0.63	0.38	1	7522.814	1071.026	6.46	1.08	0.80	1
7516.821	1047.401	4.21	1.03	0.77	1	SZ AQL					
7518.816	1047.679	3.97	0.82	0.51	1	J.D.		CYCLES	V	B-V	RF
7521.810	1048.096	3.79	0.83	0.54	1	3087.903		180.179	9.06	1.78	8
7522.835	1048.239	4.05	0.92	0.69	1	3089.929		180.298	9.19	1.76	8
7541.740	1050.873	3.51	0.63	0.45	1	3090.885		180.353	9.18	1.72	8
7542.724	1051.010	3.74	0.78	0.53	1	3091.847		180.410	9.09	1.57	8
U AQL		3092.890		180.470		8.95		1.52		8	
J.D.	CYCLES	V	B-V	U-B	RF	3093.875		180.528	8.89	1.46	8
2762.740	393.333	6.78	1.21		8	3094.892		180.587	7.97	1.05	8
2764.753	393.619	6.71	1.08		8	3095.872		180.644	8.12	1.13	8
2765.750	393.761	6.20	0.85		8	3096.868		180.703	8.20	1.20	8
2766.821	393.914	6.23	0.97		8	3101.833		180.992	8.69	1.64	8
2771.746	394.615	6.76	1.08		8	3145.757		183.555	8.56	1.23	8
2772.781	394.762	6.16	0.86		8	3146.740		183.613	7.99	1.05	8
2773.769	394.903	6.22	0.93		8	3147.750		183.671	8.16	1.15	8
3087.927	439.630	6.65	1.05		8	3148.753		183.730	8.23	1.26	8
3091.917	440.198	6.63	1.12		8	3152.710		183.961	8.61	1.59	8
3092.913	440.339	6.76	1.20		8	3153.722		184.020	8.74	1.63	8
3093.899	440.480	6.87	1.25		8	3154.719		184.078	8.85	1.70	8
3094.910	440.624	6.65	1.11		8	4980.408		290.607	7.94	1.04	7
3095.896	440.764	6.15	0.85		8	5358.343		312.660	8.10	1.17	7
3096.882	440.905	6.27	0.92		8	5646.526		329.475	8.95	1.57	7
3098.892	441.191	6.59	1.13		8	5647.398		329.526	8.89	1.52	7
3101.839	441.610	6.73	1.12		8	5665.397		330.576	8.06	1.10	7
3151.736	448.714	6.36	0.89		8	5681.375		331.509	8.92	1.51	7
3152.771	448.861	6.20	0.85		8	7056.934		411.773	8.36	1.39	1.03
3153.774	449.004	6.36	1.02		8	7094.938		413.990	8.72	1.66	1.45
3158.715	449.708	6.42	0.90		8	7100.940		414.340	9.18	1.74	1.65
4572.568	650.999	6.60	1.03		7	7118.837		415.385	9.07	1.64	1.35
4574.578	651.285	6.65	1.19		7	7131.835		416.143	8.99	1.75	1.61
4907.496	698.682	6.46	1.02		7	7147.701		417.069	8.89	1.74	1.56
4922.559	700.827	6.09	0.85		7	7148.754		417.130	8.98	1.76	1.63
5242.644	746.398	6.77	1.22	0.93	5	7149.788		417.191	9.07	1.79	1.77
5256.622	748.388	6.78	1.22	0.93	5	7214.635		420.975	8.72	1.61	1.38
5292.519	753.498	6.91	1.24	0.95	5	7220.611		421.323	9.15	1.73	1.60
5302.500	754.919	6.21	0.95		7	7469.860		435.867	8.52	1.50	1.26
5304.398	755.190	6.49	1.12	0.82	6	7518.807		438.723	8.24	1.28	1.01
5305.412	755.334	6.69	1.20	0.90	6	7522.784		438.955	8.69	1.62	1.43
5306.352	755.468	6.84	1.24	0.95	6	TT AQL					
5309.458	755.910	6.23	0.96	0.65	6	J.D.		CYCLES	V	B-V	RF
5310.355	756.038	6.40	1.05	0.74	6	3087.909		224.503	7.21	1.51	8
5315.484	756.768	6.09	0.87		7	3090.892		224.720	7.53	1.63	8
5370.320	764.575	6.78	1.19		7	3091.855		224.790	7.65	1.57	8
7118.887	1013.519	6.84	1.25	0.89	1	3092.896		224.866	7.49	1.45	8
7147.754	1017.629	6.65	1.11	0.67	1	3093.882		224.938	7.29	1.35	8
7148.813	1017.780	6.07	0.85	0.53	1	3094.899		225.012	7.19	1.30	8
7149.826	1017.924	6.24	0.96	0.63	1	3095.875		225.083	6.46	0.98	8
7186.687	1023.172	6.43	1.10	0.76	1	3096.870		225.155	6.63	1.04	8

TABLE 1 (continued)

TT	AQL	CONT.				FF	AQL	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
3101.828	225.515	7.26	1.52		8	2773.760	620.395	5.27	0.71		8
3145.760	228.709	7.60	1.61		8	2774.823	620.633	5.44	0.83		8
3146.742	228.781	7.60	1.56		8	3102.815	693.993	5.49	0.79		8
3148.758	228.927	7.29	1.35		8	3103.811	694.216	5.20	0.70		8
3152.719	229.215	6.68	1.14		8	3132.708	700.679	5.50	0.81		8
3153.729	229.289	6.83	1.26		8	3134.771	701.141	5.31	0.71		8
3154.726	229.361	6.92	1.36		8	3136.729	701.579	5.43	0.81		8
4980.416	362.096	6.55	0.96		7	3158.674	706.487	5.38	0.75		8
5238.695	380.874	7.48	1.43	1.10	5	3159.680	706.712	5.50	0.83		8
5242.631	381.160	6.72	1.09	0.75	5	5238.650	1171.706	5.50	0.84	0.58	5
5256.599	382.176	6.74	1.10	0.77	5	5242.613	1172.593	5.46	0.84	0.56	5
5292.464	384.783	7.70	1.55	1.30	5	5256.575	1175.715	5.52	0.85	0.58	5
5304.410	385.652	7.54	1.57	1.37	6	5292.470	1183.744	5.53	0.87	0.59	5
5305.424	385.726	7.66	1.58	1.40	6	5305.446	1186.646	5.50	0.86	0.61	6
5306.412	385.797	7.67	1.55	1.31	6	5306.387	1186.857	5.53	0.86	0.58	6
5309.411	386.016	7.28	1.28	0.95	6	5309.380	1187.526	5.41	0.81	0.55	6
5310.422	386.089	6.55	0.97	0.47	6	5310.397	1187.754	5.54	0.86	0.58	6
5364.284	390.005	7.31	1.32		7	5358.304	1198.469	5.33	0.76		7
5365.316	390.080	6.61	0.97		7	5365.293	1200.032	5.39	0.77		7
5643.401	410.298	6.94	1.29		7	5370.308	1201.154	5.24	0.71		7
5654.333	411.093	6.53	0.96		7	5612.521	1255.328	5.22	0.69		7
5655.478	411.176	6.73	1.12		7	5621.469	1257.330	5.22	0.71		7
5668.464	412.120	6.57	1.00		7	5625.557	1258.244	5.19	0.66	-7	
5669.442	412.191	6.75	1.11		7	5626.482	1258.451	5.31	0.74		7
5683.410	413.207	6.73	1.14		7	5629.555	1259.138	5.29	0.70		7
7093.903	515.755	7.64	1.64	1.48	1	7048.958	1576.610	5.43	0.82	0.55	1
7118.842	517.568	7.38	1.55	1.39	1	7051.911	1577.270	5.19	0.73	0.42	1
7131.861	518.515	7.28	1.51	1.30	1	7052.863	1577.483	5.38	0.78	0.51	1
7133.847	518.659	7.53	1.64	1.43	1	7054.824	1577.922	5.47	0.86	0.49	1
7147.726	519.668	7.57	1.63	1.47	1	7091.936	1586.223	5.27	0.70	0.48	1
7148.793	519.746	7.64	1.62	1.46	1	7093.879	1586.657	5.48	0.84	0.56	1
7149.807	519.820	7.61	1.54	1.35	1	7094.915	1586.889	5.51	0.84	0.54	1
7178.688	521.919	7.32	1.39	1.00	1	7100.926	1588.233	5.18	0.71	0.46	1
7186.669	522.500	7.18	1.50	1.29	1	7102.935	1588.683	5.49	0.84	0.55	1
7188.701	522.647	7.50	1.62	1.47	1	7118.786	1592.228	5.21	0.68	0.43	1
7189.669	522.718	7.67	1.62	1.45	1	7131.810	1595.141	5.30	0.73	0.47	1
7191.655	522.862	7.51	1.47	1.21	1	7458.946	1668.310	5.32	0.69	0.56	1
7198.695	523.374	7.00	1.36	1.09	1	7469.847	1670.748	5.56	0.84	0.60	1
7200.742	523.523	7.28	1.54	1.39	1	7518.784	1681.694	5.50	0.83	0.58	1
7205.648	523.880	7.44	1.47	1.15	1	7521.754	1682.358	5.25	0.71	0.49	1
7214.644	524.534	7.36	1.53	1.27	1	7522.775	1682.586	5.48	0.82	0.61	1
7461.897	542.510	7.23	1.52	1.28	1	7533.727	1685.036	5.41	0.77	0.52	1
7469.872	543.090	6.59	0.96	0.74	1	7592.627	1698.210	5.23	0.67	0.52	1
7472.829	543.305	6.90	1.29	0.98	1						
7522.792	546.937	7.40	1.38	1.03	1						
						FM	AQL				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
						2773.762	453.657	7.98	1.14		8
						2788.823	456.120	8.48	1.50		8
2762.719	617.925	5.58	0.80		8	2789.833	456.285	8.59	1.52		8
2764.736	618.377	5.25	0.73		8	2790.812	456.445	8.33	1.29		8
2765.717	618.596	5.48	0.79		8	2791.799	456.607	7.95	1.10		8
2766.806	618.840	5.55	0.84		8	2792.802	456.771	8.11	1.27		8
2768.715	619.267	5.15	0.70		8	3091.879	505.686	8.04	1.19		8
2770.778	619.728	5.51	0.85		8	3092.908	505.854	8.31	1.30		8
2771.731	619.941	5.54	0.79		8	3093.891	506.015	8.40	1.43		8
2772.771	620.174	5.22	0.71		8	3094.887	506.178	8.59	1.51		8

TABLE I (continued)

FM	AQL	CONT.				FN	AQL	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
3095.867	506.338	8.61	1.45		8	3154.729	332.699	8.12	1.13		8
3096.861	506.501	8.08	1.14		8	4907.484	517.545	8.25	1.12		7
3098.863	506.828	8.25	1.32		8	5238.690	552.474	8.35	1.16	0.80	5
3152.738	515.639	7.94	1.14		8	5242.639	552.890	8.40	1.29	0.97	5
3153.740	515.803	8.15	1.28		8	5256.595	554.362	8.47	1.23	0.87	5
3154.736	515.966	8.34	1.34		8	5292.500	558.149	8.72	1.38	1.07	5
5238.667	856.799	8.17	1.29	0.94	5	5304.415	559.405	8.40	1.20	0.84	6
5242.627	857.447	8.29	1.29	0.87	5	5305.428	559.512	8.27	1.15	0.81	6
5256.585	859.730	8.10	1.24	0.87	5	5306.407	559.615	8.13	1.11	0.78	6
5292.488	865.602	7.92	1.13	0.76	5	5309.404	559.931	8.43	1.31	1.03	6
5305.436	867.719	8.06	1.22	0.86	6	5310.417	560.038	8.60	1.38	1.09	6
5306.395	867.876	8.26	1.34	0.98	6	5315.463	560.570	8.15	1.13		7
5309.389	868.366	8.57	1.39	1.05	6	5363.304	565.616	8.11	1.10		-7
5310.404	868.532	7.97	1.14	0.78	6	5364.300	565.721	8.17	1.17		7
5328.402	871.476	8.18	1.23		7	5647.432	595.580	8.15	1.10		7
5359.255	876.522	8.01	1.16		7	5654.341	596.309	8.49	1.27		7
5364.292	877.346	8.61	1.45		7	5655.487	596.429	8.36	1.20		7
5372.260	878.649	7.99	1.20		7	5665.430	597.478	8.31	1.17		7
5646.536	923.507	8.08	1.21		7	5668.473	597.799	8.23	1.22		7
5647.422	923.652	7.99	1.19		7	5685.406	599.585	8.17	1.13		7
5652.377	924.463	8.19	1.27		7	7118.865	750.758	8.22	1.22	0.84	1
5665.405	926.593	7.92	1.13		7	7131.885	752.131	8.67	1.36	1.13	1
5678.434	928.724	8.05	1.27		7	7133.856	752.339	8.42	1.25	0.81	1
5683.416	929.539	7.92	1.13		7	7147.744	753.803	8.30	1.26	0.88	1
5689.344	930.509	8.01	1.16		7	7148.806	753.915	8.43	1.34	1.00	1
7056.904	1154.177	8.59	1.49	1.10	1	7149.820	754.022	8.59	1.39	1.11	1
7118.850	1164.309	8.66	1.47	1.13	1	7201.699	759.494	8.27	1.15	0.78	1
7131.872	1166.438	8.33	1.35	0.78	1	7205.664	759.912	8.42	1.34	1.01	1
7132.849	1166.598	7.93	1.17	0.74	1	7213.655	760.754	8.24	1.22	0.80	1
7133.849	1166.762	8.11	1.28	0.84	1	7214.660	760.860	8.24	1.25	1.01	1
7147.734	1169.033	8.42	1.43	1.04	1	7461.912	786.936	8.46	1.36	1.03	1
7148.799	1169.207	8.59	1.50	1.14	1	7469.891	787.777	8.29	1.23	0.89	1
7149.813	1169.373	8.52	1.41	0.99	1	7522.807	793.358	8.56	1.19	0.93	1
7186.677	1175.402	8.42	1.36	0.92	1	7777.792	1109.647	10.25	0.95	0.67	3
7191.663	1176.217	8.59	1.47	1.13	1	7778.770	1109.807	9.84	0.77	0.53	3
7201.683	1177.856	8.24	1.34	0.95	1	7784.726	1110.783	9.83	0.78	0.55	3
7205.655	1178.506	8.03	1.19	0.78	1	6751.781	1105.389	10.51	1.09		3
7214.653	1179.977	8.35	1.40	0.97	1	6752.785	1105.553	10.55	1.09	0.99	3
7461.903	1220.416	8.38	1.34	0.89	1	6773.726	1108.982	10.07	0.92	0.80	3
7469.885	1221.721	8.08	1.23	0.89	1	6774.712	1109.143	10.33	1.07	0.85	3
7522.799	1230.376	8.60	1.39	1.06	1	6776.740	1109.475	10.49	1.22	0.87	3
FN	AQL	KL AQL				KL AQL					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
3087.910	325.652	8.06	1.11		8	6785.714	1110.944	9.97	0.91	0.68	3
3090.900	325.967	8.52	1.37		8	6787.702	1111.270	10.36	1.10	0.97	3
3091.862	326.069	8.79	1.39		8	6789.760	1111.607	10.43	1.03	0.82	3
3092.903	326.179	8.78	1.40		8	6806.684	1114.377	10.48	1.15	0.90	3
3093.890	326.283	8.60	1.32		8	6807.689	1114.542	10.57	1.13	0.84	3
3094.904	326.390	8.44	1.25		8	6808.680	1114.704	10.09	0.86	0.60	3
3095.878	326.492	8.29	1.16		8	6809.678	1114.868	9.92	0.81	0.61	3
3096.875	326.597	8.12	1.05		8	6810.677	1115.031	10.15	0.97	0.71	3
3145.767	331.754	8.18	1.16		8	6811.683	1115.196	10.32	1.06	0.79	3
3146.750	331.857	8.28	1.26		8	6815.665	1115.848	9.92	0.83	0.61	2
3152.725	332.487	8.25	1.17		8	6815.674	1115.849	9.90	0.81	0.61	3
3153.731	332.594	8.12	1.09		8	6816.648	1116.009	10.10	0.96	0.69	3

TABLE 1 (continued)

KL	AQL	CONT.				336	AQL	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6816.738	1116.023	10.08	0.98	0.70	2	6807.726	932.112	10.16	1.51	1.20	2
6817.700	1116.181	10.53	1.07	0.79	2	6808.688	932.243	10.27	1.52	1.15	2
6818.698	1116.344	10.47	1.08	0.89	2	6810.663	932.514	9.48	1.17	0.85	2
6819.656	1116.501	10.60	1.13	0.92	2	6833.627	935.658	9.69	1.29	0.92	2
6820.684	1116.669	10.18	0.91	0.61	2	7203.676	986.325	10.02	1.41	1.00	1
6833.719	1118.804	9.92	0.78	0.58	2	7229.612	989.876	9.80	1.39	1.03	1
6834.713	1118.966	10.02	0.90	0.69	2	7233.603	990.423	9.71	1.23	0.83	1
6836.657	1119.285	10.36	1.12	0.87	2	7234.599	990.559	9.52	1.19	0.82	1
6843.659	1120.431	10.59	1.18		3	7239.585	991.242	10.22	1.54	1.16	1
6845.634	1120.754	9.87	0.80	0.52	3	7469.854	1022.770	9.76	1.36	1.01	1
6846.644	1120.920	9.99	0.88	0.66	3	7521.763	1029.877	9.82	1.40	1.06	1
6846.712	1120.931	9.94	0.89	0.66	2						
6853.621	1122.062	10.18	0.96	0.74	2						
6856.628	1122.554	10.50	1.13		2						
6856.706	1122.567	9.88	0.85		2						
						493	AQL				
6857.626	1122.718	9.98	0.86		2	J.D.	CYCLES	V	B-V	U-B	RF
PZ	AQL					5612.438	1879.880	11.18	1.37		7
J.D.	CYCLES	V	B-V	U-B	RF	5612.545	1879.916	11.20	1.39		7
7131.821	815.103	11.72	1.39	1.11	1	5623.462	1883.572	10.81	1.16		7
7203.661	823.313	11.30	1.31	1.01	1	5624.596	1883.952	11.23	1.41		7
7229.604	826.278	11.35	1.26	0.96	1	5625.548	1884.271	11.33	1.32		7
7232.612	826.622	11.73	1.55	1.18	1						
7233.597	826.735	11.93	1.65	1.33	1						
7469.839	853.735	11.95	1.68	1.44	1						
7521.738	859.666	11.77	1.64	1.41	1						
7601.571	868.791	11.95	1.69	1.47	1						
	336	AQL									
J.D.	CYCLES	V	B-V	U-B	RF	5631.462	1886.252	11.32	1.37		7
4989.343	683.139	10.21	1.57		7	5636.494	1887.938	11.21	1.40		7
5328.392	729.562	9.54	1.19		7	5637.461	1888.261	11.30	1.33		7
5363.395	734.354	9.88	1.36		-7	5638.482	1888.603	10.83	1.15		7
5364.277	734.475	9.48	1.15		7	5639.517	1888.950	11.25	1.35		7
5612.533	768.466	9.52	1.17		7						
5626.494	770.378	9.82	1.29		7						
5627.496	770.515	9.51	1.17		7						
6735.874	922.274	10.16	1.48		2						
6736.801	922.401	9.82	1.30		2						
6736.916	922.416	9.71	1.27		2						
6742.698	923.208	10.27	1.51		2						
6743.767	923.354	9.84	1.35		2						
6744.688	923.481	9.63	1.23		2						
6745.729	923.623	9.69	1.33		2						
6746.692	923.755	9.76	1.43		2						
6747.721	923.896	9.92	1.41		2	5681.363	1902.966	11.19	1.39		7
6748.719	924.032	10.05	1.51		2	5682.336	1903.292	11.32	1.31		7
6749.721	924.170	10.23	1.53		2	5683.393	1903.646	10.81	1.17		7
6753.742	924.720	9.77	1.33		2	5685.396	1904.317	11.21	1.33		7
6757.710	925.264	10.28	1.55		2	5686.396	1904.652	10.86	1.20		7
6759.749	925.543	9.54	1.19		2	5687.422	1904.996	11.23	1.38		7
6760.805	925.687	9.77	1.31		2	5688.299	1905.290	11.21	1.27		-7
6761.712	925.811	9.80	1.38		2	5689.335	1905.637	10.82	1.19		7
6765.748	926.364	9.93	1.31		2	5691.298	1906.294	11.26	1.37		7
6767.677	926.628	9.67	1.29		2	5692.343	1906.644	10.85	1.19		7

TABLE I (continued)

496 AQL						572 AQL						CONT.					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4552.962	668.875	7.70	1.09		9	5687.452	1484.974	11.36	0.86		7						
4565.878	670.772	7.77	1.18		9	5688.334	1485.205	11.19	0.74		7						
4566.847	670.914	7.63	1.11		9	6751.792	1762.870	11.02	0.67		3						
4567.844	671.061	7.63	1.08		9	6752.794	1763.132	11.15	0.76		3						
4570.837	671.501	7.90	1.30		9	6776.753	1769.387	11.45	0.82	0.55	3						
4574.816	672.085	7.64	1.14		9	6778.781	1769.917	11.07	0.65	0.59	3						
4575.868	672.240	7.72	1.21		9	6784.755	1771.477	11.35	0.79	0.49	3						
4989.355	732.985	7.61	1.06		7	6785.723	1771.729	11.04	0.64	0.49	3						
5238.657	769.610	7.97	1.23	0.95	5	6786.716	1771.989	11.21	0.75	0.54	3						
5242.660	770.198	7.74	1.16	0.86	5	6787.713	1772.249	11.43	0.85	0.64	3						
5256.612	772.248	7.78	1.17	0.88	5	6789.768	1772.785	11.04	0.64	0.45	3						
5302.491	778.988	7.60	1.08		7	6791.825	1773.323	11.45	0.85	0.52	3						
5304.402	779.268	7.77	1.18	0.89	6	6792.711	1773.554	11.25	0.71		3						
5305.415	779.417	7.86	1.23	0.93	6	6793.706	1773.814	11.07	0.67	0.43	3						
5306.344	779.554	7.96	1.26	0.98	6	6808.687	1777.725	11.00	0.64	0.52	3						
5309.435	780.008	7.62	1.08	0.76	6	6809.685	1777.986	11.32	0.78	0.48	3						
5310.446	780.156	7.70	1.14	0.84	6	6812.666	1778.764	11.01	0.69	0.51	3						
5315.452	780.892	7.65	1.11		7	6813.661	1779.024	11.29	0.86	0.57	3						
5643.393	829.070	7.65	1.11		7	6815.683	1779.552	11.09	0.67	0.49	3						
5647.412	829.660	7.97	1.26		7	6816.663	1779.808	11.09	0.72	0.52	3						
5654.324	830.675	7.97	1.24		7	6819.674	1780.594	11.05	0.67	0.40	3						
5655.469	830.844	7.71	1.13		7	6841.688	1786.342	11.28	0.83	0.55	3						
5669.431	832.895	7.66	1.07		7	6845.641	1787.374	10.97	0.91	0.47	-3						
5678.386	834.210	7.71	1.20		7	6846.650	1787.637	11.04	0.67	0.47	3						
5683.404	834.948	7.56	1.06		7												
7094.931	1042.315	7.78	1.21	0.90	1							600 AQL					
7100.932	1043.196	7.70	1.19	0.83	1							J.D.	CYCLES	V	B-V	U-B	RF
7118.826	1045.825	7.76	1.14	0.75	1	4989.366	689.248	10.34	1.71		7						
7131.849	1047.738	7.88	1.17	0.85	1	5315.474	734.298	10.39	1.72		7						
7147.719	1050.070	7.67	1.10	0.78	1	5359.264	740.347	10.41	1.68		7						
7148.761	1050.223	7.69	1.17	0.83	1	5643.413	779.601	9.77	1.36		7						
7149.801	1050.376	7.81	1.23	0.91	1	5652.387	780.841	9.90	1.51		7						
7178.681	1054.618	7.97	1.27	0.94	1	5654.350	781.112	10.17	1.62		7						
7186.659	1055.790	7.86	1.20	0.86	1	5655.497	781.270	10.33	1.69		7						
7188.678	1056.087	7.58	1.12	0.78	1	5660.584	781.973	10.03	1.49		7						
7189.658	1056.231	7.71	1.17	0.85	1	5665.441	782.644	9.71	1.36		7						
7191.648	1056.523	7.93	1.27	0.98	1	5669.454	783.198	10.30	1.68		7						
7198.685	1057.557	7.93	1.27	0.97	1	5685.417	785.403	10.36	1.62		7						
7205.642	1058.579	7.94	1.28	0.96	1	5686.409	785.540	9.93	1.43		7						
7469.867	1097.396	7.87	1.24	0.93	1	5687.434	785.682	9.78	1.37		7						
7472.822	1097.831	7.74	1.13	0.78	1	5688.312	785.803	9.80	1.47		7						
	572 AQL					7056.913	974.867	9.99	1.53	1.05	1						
J.D.	CYCLES	V	B-V	U-B	RF												
5364.340	1400.611	11.24	0.72		7	7198.708	994.455	10.12	1.53	1.10	1						
5372.294	1402.688	11.12	0.72		7	7203.692	995.143	10.22	1.64	1.29	1						
5643.426	1473.479	11.22	0.74		7	7229.619	998.725	9.82	1.41	1.00	1						
5654.441	1476.355	11.24	0.75		7	7461.919	1030.816	9.90	1.51	1.12	1						
5655.523	1476.638	10.90	0.62		7	7469.897	1031.918	9.97	1.51	1.15	1						
5660.605	1477.965	11.30	0.81		7	7593.631	1049.011	10.06	1.58	1.23	1						
5669.481	1480.282	11.29	0.77		7	7601.546	1050.104	10.15	1.60	1.29	1						
5681.399	1483.394	11.08	0.66		7	7635.570	1054.804	9.80	1.47	1.06	1						
5682.436	1483.665	11.06	0.66		7												
5683.429	1483.924	11.32	0.84		-7							DU ARA					
5685.432	1484.447	11.02	0.65		7							J.D.	CYCLES	V	B-V	U-B	RF
5686.421	1484.705	11.13	0.76		7	5201.632	3170.393	12.44	0.70	0.40	-5						

TABLE 1 (continued)

DU	ARA	CONT.				RT	AUR	CONT.				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	
5216.598	3179.515	11.73	0.48	0.31	6	2885.906	774.062	5.63	0.77		9	
5242.603	3195.365	12.40	0.60	0.54	-5	2944.931	789.894	5.48	0.68		9	
5243.633	3195.993	12.66	0.45	0.20	-5		3020.741	810.228	5.79	0.80		9
5244.597	3196.580	11.73	0.56	0.26	-5		3233.920	867.407	5.78	0.72		9
5246.592	3197.796	12.19	0.87	0.62	-5		3238.899	868.743	5.26	0.57		9
5250.591	3200.233	12.45	0.67	0.38	-5		3249.892	871.691	5.22	0.52		9
5256.529	3203.853	12.14	0.77	0.69	-5		4335.062	1162.757	5.31	0.60		9
5273.440	3214.160	12.44	0.83	0.58	6		4337.052	1163.292	5.83	0.81		9
5275.363	3215.332	12.14	0.67	0.47	6		4342.049	1164.631	5.12	0.45		9
5277.398	3216.572	11.76	0.54	0.33	6		4418.885	1185.240	5.79	0.81		9
5278.382	3217.172	12.37	0.82	0.58	6		4424.865	1186.844	5.43	0.64		9
5305.322	3233.592	11.82	0.56	0.28	6		4425.856	1187.110	5.74	0.80		9
5310.321	3236.639	11.82	0.62	0.42	6		4427.819	1187.637	5.11	0.45		9
	Y AUR						4459.728	1196.195	5.76	0.79		9
	J.D.	CYCLES	V	B-V	U-B	RF	4460.760	1196.472	5.45	0.57		9
							7014.694	1881.492	5.21	0.49	0.28	1
							7015.599	1881.735	5.24	0.54	0.32	1
6809.984	1764.493	9.17	0.72	0.51	2							
6812.941	1765.259	9.97	1.09	0.69	2		7020.622	1883.082	5.69	0.75	0.36	1
6813.915	1765.512	9.16	0.73	0.50	2		7022.610	1883.615	5.06	0.42	0.28	1
6814.934	1765.776	9.62	0.95	0.57	2		7023.661	1883.897	5.51	0.65	0.41	1
6815.956	1766.041	9.89	1.08	0.70	2		7024.611	1884.152	5.76	0.75	0.50	1
							7043.635	1889.255	5.77	0.76	0.49	1
6815.997	1766.051	9.88	1.11	0.71	3							
6816.941	1766.296	9.95	1.05	0.66	2		7045.631	1889.790	5.41	0.55	0.37	1
6816.995	1766.310	9.92	1.01	0.68	3		7240.874	1942.159	5.73	0.80	0.47	1
6817.960	1766.560	9.25	0.75	0.55	2		7273.888	1951.014	5.60	0.75	0.43	1
6817.999	1766.570	9.26	0.78	0.54	3		7668.743	2056.922	5.51	0.70	0.43	1
6818.926	1766.810	9.68	0.98	0.61	2							
6818.986	1766.826	9.66	0.99	0.63	3							
6819.924	1767.069	9.91	1.10	0.64	2							
6819.991	1767.086	9.93	1.09	0.69	3							
6833.958	1770.705	9.49	0.91	0.58	2		2861.005	246.112	7.68	1.05		9
							2882.976	248.002	7.54	0.95		9
6834.944	1770.961	9.78	1.06	0.68	2		2883.952	248.086	7.59	1.03		9
6836.959	1771.483	9.15	0.72	0.54	2		2885.995	248.262	7.98	1.13		9
6845.021	1773.572	9.28	0.80	0.51	3		2944.903	253.329	8.10	1.12		9
6845.998	1773.825	9.64	1.03	0.62	3							
6846.997	1774.083	9.95	1.10	0.72	3		3181.031	273.642	7.67	0.91		9
							3216.917	276.729	7.38	0.81		9
6849.000	1774.602	9.30	0.81	0.51	3		4335.049	372.914	7.49	0.94		9
6849.888	1774.833	9.66	1.00	0.62	2		4337.016	373.083	7.62	1.01		9
6849.986	1774.858	9.69	1.00	0.65	3		4341.986	373.511	7.85	1.02		9
6852.894	1775.611	9.36	0.80	0.55	2							
6853.894	1775.871	9.72	1.06	0.62	2		4369.941	375.915	7.48	0.92		9
							4418.844	380.122	7.74	1.07		9
6856.862	1776.640	9.41	0.84		2		4424.901	380.643	7.67	0.91		9
6857.834	1776.891	9.75	1.02		2		4425.840	380.724	7.44	0.84		9
6858.899	1777.167	9.94	1.09		2		4427.809	380.893	7.45	0.88		9
7592.920	1967.355	9.72	0.96	0.60	1							
	RT AUR						4460.705	383.723	7.43	0.81		9
	J.D.	CYCLES	V	B-V	U-B	RF	7240.794	622.875	7.46	0.94	0.57	1
							7265.715	625.019	7.64	1.04	0.69	1
							7273.863	625.719	7.34	0.80	0.46	1
							7597.832	653.588	7.65	0.93	0.67	1
2822.007	756.923	5.51	0.70		9							
2825.012	757.729	5.25	0.55		9		7600.781	653.842	7.45	0.88	0.61	1
2833.028	759.879	5.45	0.65		9		7601.773	653.927	7.54	0.96	0.68	1
2841.975	762.279	5.81	0.80		9		7619.831	655.481	7.81	1.03	0.69	1
2848.962	764.153	5.78	0.78		9		7623.720	655.815	7.37	0.87	0.59	1
							7626.760	656.077	7.72	1.11	0.81	1
2860.984	767.378	5.81	0.78		9							
2882.903	773.257	5.81	0.78		9		7634.896	656.777	7.33	0.82	0.55	1
2883.896	773.523	5.30	0.50		9		7635.705	656.846	7.49	0.92	0.61	1

TABLE 1 (continued)

RX	AUR	CONT.				YZ	AUR	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7645.810	657.715	7.37	0.78	0.52	1		6833.941	375.638	10.15	1.42	0.95	2	
7646.715	657.793	7.44	0.82	0.52	1		6834.937	375.693	10.18	1.44	1.09	2	
7647.695	657.878	7.51	0.90	0.51	1		6836.952	375.803	10.38	1.55	1.24	2	
							6849.881	376.514	9.99	1.23	0.88	2	
							6852.888	376.679	10.20	1.42	1.12	2	
7652.793	658.316	7.98	1.15	0.86	1								
7654.709	658.481	7.83	1.01	0.68	1		6853.888	376.734	10.28	1.53	1.11	2	
7655.728	658.569	7.76	0.95	0.66	1		6856.857	376.897	10.57	1.60		2	
7656.675	658.650	7.58	0.86	0.57	1		6857.828	376.951	10.64	1.61		2	
7658.710	658.825	7.34	0.93	0.51	1		6858.894	377.009	10.68	1.62		2	
7660.671	658.994	7.61	1.01	0.72	1								
7661.653	659.078	7.73	1.08	0.80	1								
7663.677	659.252	7.96	1.15	0.90	1								
SY AUR		AN AUR				J.D.				J.D.			
							6809.930	661.749	10.31	1.10	0.71	2	
J.D.	CYCLES	V	B-V	U-B	RF		6810.983	661.852	10.32	1.09	0.74	2	
							6811.979	661.948	10.24	1.09	0.74	2	
6808.976	671.229	9.38	1.15	0.84	2		6812.916	662.040	10.20	1.12	0.78	2	
6809.967	671.327	9.19	1.09	0.70	2		6813.899	662.135	10.35	1.26	0.88	2	
6810.910	671.420	8.93	1.01	0.66	2								
6811.984	671.526	8.84	0.93	0.66	2		6814.909	662.233	10.49	1.33	0.93	2	
6812.923	671.618	8.76	0.92	0.64	2		6815.921	662.332	10.61	1.37	1.19	2	
							6816.919	662.429	10.79	1.43	1.02	2	
6813.906	671.715	8.84	1.00	0.67	2		6817.940	662.528	10.80	1.38	0.93	2	
6814.917	671.815	9.07	1.10	0.73	2		6817.966	662.530	10.73	1.31	0.80	3	
6815.930	671.915	9.15	1.15	0.82	2								
6816.926	672.013	9.29	1.21	0.84	2		6818.898	662.621	10.55	1.33	0.84	2	
6817.946	672.114	9.37	1.22	0.85	2		6818.965	662.627	10.55	1.22	0.70	3	
							6819.901	662.718	10.40	1.15	0.74	2	
6818.007	672.120	9.35	1.22	0.85	3		6819.934	662.722	10.29	1.16	0.64	3	
6818.909	672.208	9.38	1.18	0.82	2		6833.912	664.080	10.32	1.21	0.75	2	
6818.980	672.215	9.32	1.19	0.81	3								
6819.908	672.307	9.24	1.10	0.70	2		6834.999	664.185	10.41	1.30	1.00	2	
6819.951	672.311	9.21	1.10	0.74	3		6836.938	664.374	10.73	1.42	1.06	2	
							6844.981	665.155	10.35	1.23	0.73	3	
6833.933	673.690	8.82	0.97		2		6845.961	665.251	10.45	1.26	0.96	3	
6836.946	673.987	9.22	1.20	0.86	2		6846.944	665.346	10.57	1.35	0.84	3	
6844.996	674.780	9.01	1.06	0.68	3								
6845.992	674.878	9.10	1.15	0.75	3		6849.856	665.629	10.57	1.25	0.86	2	
6846.990	674.977	9.23	1.20	0.80	3		6852.863	665.921	10.25	1.13	0.76	2	
							6853.836	666.016	10.16	1.13	0.74	2	
6848.974	675.172	9.37	1.20	0.81	3		6855.906	666.217	10.41	1.34		2	
6849.870	675.261	9.28	1.15	0.79	2		6856.844	666.308	10.64	1.38		2	
6849.979	675.271	9.31	1.12	0.73	3								
6852.883	675.558	8.80	0.92	0.64	2		6857.813	666.402	10.74	1.48		2	
6853.883	675.656	8.76	0.96	0.66	2		6858.881	666.506	10.78	1.46		2	
AO AUR		AO AUR				J.D.				J.D.			
6855.813	675.846	9.05	1.17		2		6836.968	1010.937	10.54	0.88	0.57	2	
6856.851	675.949	9.23	1.16		2		6849.896	1012.849	11.11	1.11	0.70	2	
6857.820	676.044	9.31	1.22		2		6852.902	1013.293	10.83	1.05	0.66	2	
6858.887	676.149	9.36	1.22		2		6858.906	1014.181	10.61	0.99		2	
YZ AUR		BK AUR				J.D.				J.D.			
6809.974	374.320	10.41	1.34	0.83	2		6816.988	851.880	9.22	1.01	0.66	3	
6811.991	374.431	9.94	1.14	0.78	2		6817.974	852.003	9.33	1.08	0.74	3	
6812.930	374.483	9.98	1.20	0.79	2								
6813.915	374.537	9.99	1.27	0.80	2		6818.973	852.128	9.53	1.17	0.80	3	
6814.925	374.593	10.13	1.33	0.93	2		6819.944	852.249	9.66	1.26	0.96	3	
							6844.990	855.379	9.82	1.25	0.84	3	
6815.938	374.648	10.17	1.39	1.01	2		6845.985	855.504	9.66	1.13	0.77	3	
6816.934	374.703	10.26	1.47	1.20	2								
6817.953	374.759	10.32	1.49	1.10	2								
6818.918	374.812	10.43	1.53	1.20	2								
6819.916	374.867	10.47	1.58	1.23	2								

TABLE 1 (continued)

BK	AUR	CONT.				RW	CAM	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6846.985	855.628	9.23	0.94	0.61	3	6813.985	414.956	8.43	1.30	0.73	3
6848.968	855.876	9.23	1.01	0.63	3	6814.855	415.009	8.28	1.23	0.74	2
6849.972	856.002	9.35	1.06	0.72	3	6814.990	415.017	8.20	1.22	0.78	3
7597.837	949.458	9.73	1.18	0.86	1	6815.849	415.069	8.26	1.25	0.79	2
						6815.970	415.076	8.25	1.29	0.78	3
7600.787	949.827	9.25	0.98	0.69	1						
7601.778	949.951	9.23	1.00	0.71	1	6816.851	415.130	8.37	1.35	0.83	2
7619.839	952.208	9.60	1.23	0.90	1	6816.974	415.138	8.34	1.34	0.81	3
7623.727	952.693	9.09	0.91	0.65	1	6817.870	415.192	8.44	1.38	0.83	2
7626.767	953.073	9.45	1.16	0.82	1	6817.939	415.196	8.41	1.40	0.86	3
						6818.858	415.252	8.53	1.44	0.87	2
7634.904	954.090	9.48	1.16	0.80	1						
7635.712	954.191	9.63	1.24	0.89	1	6818.902	415.255	8.49	1.44	0.86	3
7645.819	955.454	9.73	1.19	0.85	1	6819.814	415.311	8.62	1.47	0.83	2
7647.702	955.689	9.12	0.86	0.59	1	6819.884	415.315	8.57	1.48	0.88	3
7649.778	955.949	9.27	1.01	0.67	1	6820.845	415.373	8.66	1.52	0.87	2
						6828.865	415.862	8.85	1.39		4
7652.800	956.327	9.74	1.23	0.93	1						
7653.742	956.444	9.76	1.17	0.86	1	6829.935	415.927	8.68	1.39		4
7654.721	956.567	9.46	1.04	0.69	1	6830.967	415.990	8.23	1.23		4
7655.735	956.693	9.14	0.92	0.70	1	6832.932	416.109	8.32	1.28		4
7656.682	956.812	9.22	0.97	0.66	1	6833.881	416.167	8.40	1.36	0.86	2
						6834.924	416.231	8.46	1.42	0.91	2
7660.678	957.311	9.74	1.24	0.93	1						
						6836.906	416.351	8.62	1.49	0.88	2
						6837.914	416.413	8.73	1.56		4
						6843.896	416.777	8.86	1.45		4
						6843.924	416.779	8.86	1.43		4
J.D.	CYCLES	V	B-V	U-B	RF	6844.924	416.840	8.80	1.39	0.73	3
2821.017	127.452	8.42	1.04		9	6845.931	416.901	8.81	1.36	0.71	3
2822.012	127.497	8.30	1.01		9	6846.929	416.962	8.39	1.27	0.71	3
2825.017	127.633	8.30	1.04		9	6847.809	417.015	8.20	1.21		4
2833.031	127.995	8.87	1.45		9	6847.865	417.019	8.20	1.18		4
2848.969	128.715	8.32	1.21		9	6848.910	417.082	8.27	1.25	0.80	3
2860.922	129.255	9.09	1.34		9	6849.847	417.140	8.36	1.34	0.82	2
2884.008	130.298	8.80	1.32		9	6852.826	417.321	8.61	1.49	0.85	2
2885.899	130.383	8.57	1.12		9	6853.843	417.383	8.70	1.52	0.88	2
2887.883	130.473	8.32	1.02		9	6856.816	417.564	9.00	1.54		2
2944.965	133.052	8.92	1.46		9	6857.782	417.623	9.01	1.50		2
3009.972	135.989	8.84	1.45		9	6879.878	418.968	8.30	1.22		4
3027.972	136.802	8.40	1.29		9	6880.851	419.028	8.20	1.20		4
7014.642	316.917	8.19	1.09	0.91	1	6972.655	424.618	9.00	1.53		4
7015.641	316.962	8.22	1.13	0.94	1	6977.659	424.923	8.67	1.32		4
7016.736	317.012	8.27	1.15	1.02	1						
RW	CAM	RX CAM				J.D.	CYCLES	V	B-V	U-B	RF
7020.667	317.189	8.62	1.27	1.13	1						
7021.795	317.240	8.80	1.31	1.16	1	2789.003	352.510	7.37	1.08		8
7022.588	317.276	8.90	1.29	1.15	1	2790.969	352.758	7.43	1.16		8
7022.783	317.285	8.97	1.25	1.21	1	2792.031	352.892	7.74	1.27		8
7023.667	317.325	9.10	1.21	1.19	1						
						2797.955	353.641	7.51	1.10		8
7024.618	317.368	9.10	1.30	1.17	1	2860.785	361.582	7.25	1.05		8
7045.638	318.317	8.83	1.32	1.16	1						
7049.662	318.499	8.75	1.15	0.91	1	2864.958	362.110	7.86	1.43		8
7052.636	318.634	8.43	0.99	0.70	1	2882.899	364.377	7.77	1.29		8
RW	CAM	CAM				J.D.	CYCLES	V	B-V	U-B	RF
						2883.875	364.501	7.42	1.11		8
						2885.919	364.759	7.45	1.16		8
J.D.	CYCLES	V	B-V	U-B	RF	2887.889	365.008	7.76	1.38		8
6809.881	414.706	9.06	1.49	0.73	2	2944.840	372.206	8.06	1.48		8
6810.941	414.770	8.92	1.47	0.77	2	2947.705	372.569	7.27	1.03		8
6811.931	414.831	8.83	1.40	0.73	2	3153.983	398.641	7.42	1.11		8
6812.992	414.895	8.81	1.39	0.73	3	3154.950	398.763	7.45	1.17		8
6813.860	414.948	8.49	1.29	0.74	2	3158.920	399.265	8.13	1.43		8

TABLE 1 (continued)

RX	CAM	CONT.						TV	CAM	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF			J.D.	CYCLES	V	B-V	U-B	RF
3178.917	401.792	7.56	1.15			8		6837.927	1291.418	11.83	1.30				4
3180.000	401.929	7.70	1.33			8		6843.902	1292.546	11.96	1.34				4
3180.972	402.052	7.84	1.39			8		6843.930	1292.551	11.99	1.31				4
3190.920	403.309	8.08	1.42			8		6847.814	1293.285	11.69	1.18				4
3206.801	405.316	8.03	1.38			8		6847.876	1293.297	11.71	1.17				4
3216.843	406.586	7.29	1.05			8		6867.881	1297.075	11.39	1.00				4
3233.688	408.715	7.51	1.20			8		6869.921	1297.460	11.85	1.30				4
3238.712	409.350	8.02	1.36			8		6876.901	1298.778	12.11	1.29				4
6796.970	859.088	7.86	1.41			2		6879.889	1299.343	11.74	1.23				4
6807.953	860.476	7.66	1.24	0.88		2		6880.860	1299.526	11.95	1.31				4
6808.940	860.601	7.32	1.08	0.84		2		6942.664	1311.198	11.59	1.10				4
6809.888	860.720	7.52	1.19	0.90		2		6951.696	1312.904	11.41	1.00				4
6810.948	860.854	7.46	1.23	0.90		2		6953.678	1313.278	11.67	1.17				4
6811.943	860.980	7.73	1.34	1.02		2		6971.662	1316.675	12.19	1.35				4
6813.868	861.223	8.00	1.45	1.13		2		6972.662	1316.864	11.75	1.13				4
6814.863	861.349	8.12	1.39	1.02		2		6975.641	1317.426	11.85	1.30				4
6816.859	861.601	7.35	1.09	0.79		2		6977.655	1317.807	12.01	1.24				4
6817.952	861.740	7.50	1.20	0.88		2		6978.643	1317.993	11.25	0.92				4
6818.866	861.855	7.46	1.20	0.90		2		6978.666	1317.998	11.33	0.93				4
6819.869	861.982	7.73	1.34	1.00		2		6979.633	1318.180	11.53	1.13				4
6828.870	863.120	7.90	1.44			4		6980.642	1318.371	11.81	1.24				4
6829.938	863.255	8.07	1.51			4		6981.641	1318.560	12.02	1.34				4
6830.970	863.385	7.91	1.34			4		6982.649	1318.750	12.11	1.35				4
6832.935	863.633	7.41	1.10			4		6983.647	1318.938	11.23	0.92				4
6833.888	863.754	7.53	1.20	0.87		2		6983.649	1318.939	11.23	0.91				4
6834.931	863.886	7.51	1.23	0.89		2		AB CAM							
6836.912	864.136	7.94	1.41	1.07		2		J.D.	CYCLES	V	B-V	U-B	RF		
6837.923	864.264	8.06	1.48			4		6830.962	1180.339	12.15	1.35				4
6843.899	865.019	7.72	1.36			4		6832.927	1180.678	11.93	1.18				4
6843.927	865.023	7.72	1.35			4		6837.918	1181.541	12.32	1.47				4
6847.813	865.514	7.47	1.12			4		6843.891	1182.573	12.27	1.42				4
6847.871	865.521	7.44	1.10			4		6843.921	1182.578	12.27	1.41				4
6852.831	866.148	7.94	1.41	1.08		2		6847.806	1183.249	11.95	1.30				4
6853.849	866.277	8.07	1.46	1.10		2		6847.852	1183.257	11.97	1.31				4
6856.822	866.652	7.43	1.13			2		6847.857	1183.258	11.95	1.29				4
6857.788	866.775	7.50	1.19			2		6866.874	1186.544	12.32	1.43				4
6858.856	866.910	7.59	1.26			2		6867.871	1186.716	11.77	1.10				4
6879.882	869.567	7.30	1.06			4		6869.909	1187.068	11.78	1.24				4
6880.855	869.690	7.46	1.16			4		6876.895	1188.276	11.96	1.33				4
6951.693	878.643	7.38	1.11			4		6879.872	1188.790	11.31	0.96				4
6953.675	878.894	7.52	1.23			4		6880.845	1188.958	11.61	1.13				4
6971.659	881.167	7.96	1.43			4		6941.665	1199.467	12.29	1.44				4
6972.658	881.293	8.06	1.43			4		6942.659	1199.639	12.20	1.36				4
6975.637	881.670	7.45	1.14			4		6948.648	1200.674	12.06	1.31				4
6977.657	881.925	7.61	1.27			4		6951.689	1201.199	11.90	1.29				4
6978.641	882.049	7.77	1.37			4		6953.593	1201.528	12.34	1.45				4
6980.639	882.302	8.06	1.43			4		6954.670	1201.714	11.78	1.13				4
6981.639	882.428	7.82	1.27			4		6971.655	1204.649	12.21	1.27				4
6982.646	882.556	7.35	1.08			4		6972.652	1204.822	11.42	0.94				4
7240.781	915.182	7.98	1.47	1.12	1			6977.650	1205.685	11.95	1.21				4
7267.720	918.587	7.34	1.07	0.72	1			6978.638	1205.856	11.42	1.01				4
								6978.662	1205.860	11.50	1.02				4
TV CAM								J.D.	CYCLES	V	B-V	U-B	RF		
6830.975	1290.105	11.40	1.03			4		6979.629	1206.027	11.72	1.19				4
6832.920	1290.472	11.94	1.26			4		6980.635	1206.201	11.92	1.31				4
								6981.636	1206.374	12.19	1.42				4

TABLE I (continued)

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AB	CAM	CONT.				<i>l</i>	CAR	HD	84810	CONT.	
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6982.643	1206.548	12.31	1.42		4	4867.989	136.911	3.88	1.25		9
	TW CAP					4872.010	137.024	3.38	1.01		9
						4873.030	137.052	3.32	1.01		9
J.D.	CYCLES	V	B-V	U-B	RF	5163.412	145.219	3.51	1.25	1.02	5
						5177.411	145.613	4.01	1.52	1.29	5
5643.437	197.617	10.36	0.61		7	5198.413	146.204	3.50	1.23	1.00	5
5655.541	198.041	11.04	0.79		7	5201.362	146.287	3.62	1.33	1.10	5
5660.620	198.219	11.21	0.66		7	5208.405	146.485	3.87	1.48	1.25	5
5661.454	198.248	11.05	0.60		7	5223.258	146.902	3.87	1.30	1.03	6
5665.453	198.388	9.96	0.31		7	5236.315	147.270	3.56	1.31	1.10	5
5668.506	198.495	10.28	0.54		-7	5238.342	147.327	3.68	1.36	1.14	5
5669.494	198.530	10.36	0.55		7	5245.326	147.523	3.94	1.49	1.28	5
5686.436	199.123	11.19	0.75		7	5246.309	147.551	3.97	1.50	1.28	5
5687.466	199.159	11.23	0.70		7	5267.272	148.140	3.43	1.14	0.90	5
5688.348	199.190	11.11	0.70		7	5270.186	148.222	3.56	1.25	1.03	5
5689.355	199.225	11.08	0.61		7	5292.192	148.841	4.05	1.38	1.15	5
5691.309	199.294	10.52	0.41		7	5302.216	149.123	3.40	1.15		7
5692.354	199.330	10.09	0.32		7	5302.224	149.123	3.39	1.13		7
7142.856	250.123	11.18	0.76	0.35	1	5303.216	149.151	3.51	1.19		7
7143.854	250.158	11.21	0.74	0.32	1	5616.305	157.957	3.55	1.11		7
7147.804	250.296	10.51	0.48	0.16	1						
7178.765	251.380	10.06	0.35	0.13	1	5619.269	158.040	3.32	1.03		7
7202.769	252.221	11.22	0.75	0.58	1	5620.275	158.068	3.33	1.02		7
7226.672	253.058	10.92	0.74	0.27	1	5622.256	158.124	3.38	1.12		-7
7233.628	253.301	10.44	0.43	0.13	1	5656.238	159.080	3.34	1.05		7
						5657.191	159.107	3.32	1.08		7
7239.616	253.511	10.40	0.56	0.27	1						
7462.947	261.331	10.13	0.33	0.21	1						
7521.836	263.394	10.14	0.38	0.24	1						
7542.731	264.125	11.30	0.90	0.54	1	J.D.	CYCLES	V	B-V	U-B	RF
						4512.370	116.430	6.55	1.47		7
						4513.364	116.456	6.64	1.51		7
						4517.407	116.560	6.81	1.54		7
						4519.417	116.612	6.94	1.51		7
3765.097	105.892	4.01	1.36		9	4520.350	116.636	6.96	1.52		7
3775.986	106.198	3.48	1.16		9						
3776.988	106.227	3.48	1.20		9	4530.397	116.895	5.81	0.90		7
3778.035	106.256	3.53	1.23		9	4532.394	116.947	5.93	1.00		7
3779.003	106.283	3.56	1.28		9	4561.306	117.693	6.92	1.52		7
						4568.200	117.871	5.82	0.85		-7
3784.010	106.424	3.73	1.43		9	4573.296	118.002	6.06	1.10		7
3797.015	106.790	4.06	1.41		9						
3852.859	108.360	3.67	1.40		9	4575.244	118.053	6.15	1.21		7
3855.877	108.445	3.79	1.44		9	4578.244	118.130	6.25	1.31		7
4087.153	114.950	3.79	1.23		9	4580.230	118.181	6.23	1.31		-7
						4586.255	118.337	6.52	1.52		7
4469.187	125.694	4.03	1.45		9	4588.206	118.387	6.55	1.51		7
4472.166	125.778	4.03	1.46		9						
4527.064	127.322	3.64	1.31		9	4834.418	124.740	6.59	1.24		-7
4544.273	127.806	4.10	1.41		7	4835.481	124.767	6.27	1.06		7
4545.222	127.833	4.07	1.39		7	4913.257	126.774	6.15	1.05		7
						4914.322	126.802	5.90	0.89		7
4546.229	127.861	4.02	1.32		7	4917.351	126.880	5.85	0.89		7
4557.960	128.191	3.44	1.16		9						
4808.116	135.227	3.51	1.20		9	5161.462	133.178	6.21	1.35	1.11	5
4818.067	135.506	3.88	1.45		9	5169.446	133.384	6.51	1.47	1.22	5
4820.043	135.562	3.95	1.48		9	5176.438	133.565	6.82	1.52	1.28	5
						5177.436	133.591	6.86	1.52	1.29	5
4826.201	135.735	4.05	1.43		9	5201.406	134.209	6.27	1.37	1.12	5
4830.028	135.843	4.04	1.40		9						
4833.084	135.929	3.80	1.19		9	5208.468	134.391	6.51	1.48	1.23	5
4845.004	136.264	3.56	1.29		9	5209.380	134.415	6.52	1.48	1.25	5
4848.016	136.349	3.67	1.40		9	5236.341	135.111	6.17	1.25	0.98	5

TABLE 1 (continued)

U CAR						CONT.						SX CAR												
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF							
5238.400	135.164	6.19	1.32	1.08	5	4520.392	930.122	8.72	0.72			5239.368	135.189	6.24	1.36	1.11	5	4534.323	932.988	8.98	0.79	7		
						4569.240	940.173	8.87	0.80								4569.240	940.173	8.87	0.80	7			
5244.440	135.319	6.43	1.46	1.19	5	4865.449	1001.121	8.74	0.71			5245.393	135.344	6.47	1.45	1.20	5	5165.448	1062.849	9.41	1.08	0.79	5	
5246.357	135.369	6.50	1.47	1.21	5	5167.444	1063.260	8.89	0.87	0.57		5292.263	136.553	6.80	1.51	1.27	5	5198.480	1069.646	9.39	1.09	0.78	5	
						5201.403	1070.248	8.89	0.88	0.59						5201.403	1070.248	8.89	0.88	0.59	5			
						5208.459	1071.699	9.41	1.11	0.80						5208.459	1071.699	9.41	1.11	0.80	5			
						5224.430	1074.986	8.98	0.82							5224.430	1074.986	8.98	0.82	7				
V CAR						J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF							
4869.348	727.123	7.14	0.75			5238.392	1077.858	9.45	1.09	0.76		4890.284	730.249	7.28	0.80			5242.396	1078.682	9.40	1.11	0.78	5	
4917.212	734.270	7.34	0.85			5244.404	1079.096	8.67	0.73	0.46		5169.376	771.925	7.39	0.89	0.60	5	5257.322	1081.754	9.42	1.13	0.83	5	
5201.322	776.695	7.63	1.07	0.81	5	5292.253	1088.941	9.16	0.96	0.63						5292.253	1088.941	9.16	0.96	0.63	5			
5208.344	777.744	7.67	1.06	0.80	5							5256.279	784.902	7.83	1.01	0.79	5	5535.507	1138.993	8.94	0.80		7	
5267.235	786.538	7.48	1.01	0.76	5							5611.298	837.916	7.50	0.85			5555.485	1143.104	8.69	0.72		7	
5612.269	838.061	7.10	0.71									5628.309	1158.088	8.73	0.71			5574.365	1146.989	8.96	0.81		7	
Y CAR						J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF							
5619.261	839.105	7.10	0.73			4517.299	845.023	9.04	0.78			5637.247	841.791	7.70	1.06			4522.265	845.952	9.36	0.89		7	
5638.225	841.937	7.30	0.90			4565.289	854.000	9.17	0.84							4839.271	905.252	9.28	0.95		7			
						4865.402	910.140	9.15	0.86											4865.402	910.140	9.15	0.86	7
Y CAR						J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF							
4517.307	1241.100	8.18	0.63			4886.332	914.055	9.04	0.80			4520.260	1241.912	8.42	0.71			4924.260	921.150	9.13	0.94	-7		
4536.311	1246.322	8.38	0.74			5164.449	966.081	9.01	0.82	0.53		4578.219	1257.835	7.96	0.51			5184.416	969.816	9.81	1.14	0.85	5	
4585.211	1259.756	8.10	0.59			5189.471	970.762	9.84	1.18	0.89						5192.469	971.322	9.42	1.01	0.72	5			
4588.195	1260.576	8.21	0.63									5195.441	971.878	9.73	1.09	0.84	5	5198.439	972.439	9.57	1.11	0.87	5	
4812.455	1322.190	8.30	0.69									5239.336	980.090	9.05	0.82	0.52	5	5242.349	980.653	9.77	1.17	0.86	5	
4847.306	1331.765	7.75	0.42									5244.349	981.027	8.99	0.83	0.51	5	5267.308	985.322	9.33	1.02	0.73	5	
4865.442	1336.748	7.76	0.42									5274.216	986.614	9.67	1.15	0.67	6	5276.232	986.991	9.07	0.84	0.37	6	
4895.369	1344.970	8.22	0.64																					
4906.377	1347.995	8.09	0.64																					
4920.315	1351.824	8.10	0.66																					
5161.443	1418.072	8.29	0.76	0.51	5																			
5176.419	1422.187	8.32	0.78	0.54	5																			
5177.425	1422.463	8.22	0.68	0.44	5																			
UX CAR						J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF							
5201.391	1429.048	8.16	0.71	0.45	5	4520.298	1227.593	7.93	0.44			5208.444	1430.986	7.96	0.61	0.37	5	4531.340	1230.591	7.86	0.45			
5223.291	1435.065	8.20	0.71	0.23	6	4535.339	1231.677	8.05	0.54			5236.329	1438.647	7.54	0.40	0.21	5	4564.260	1239.532	7.80	0.55	-7		
5238.376	1439.209	8.40	0.79	0.54	5	4835.474	1313.186	8.65	0.80															
5244.370	1440.856	7.85	0.57	0.32	5							5246.321	1441.392	8.42	0.77	0.51	5	4847.289	1316.395	8.50	0.71			
5251.355	1442.775	7.78	0.46			4867.364	1321.847	8.31	0.70			5256.331	1444.142	8.34	0.76	0.50	5	4885.394	1326.743	8.18	0.62			
5257.313	1444.412	8.21	0.68	0.43	5	4896.331	1329.713	8.17	0.59							5161.436	1401.709	8.07	0.60	0.37	5			
5267.326	1447.163	8.18	0.67	0.44	5							5292.243	1454.009	8.15	0.69	0.44	5	5165.407	1402.787	8.18	0.69	0.43	5	
5309.230	1458.676	8.05	0.54			5176.413	1405.776	8.14	0.66	0.43														

TABLE 1 (continued)

UX	CAR	CONT.				UZ	CAR	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5177.416	1406.048	8.48	0.84	0.60	5	5244.378	1007.631	9.20	0.83	0.64	5
5201.381	1412.557	7.85	0.47	0.26	5	5257.317	1010.117	9.59	1.06	0.79	5
5208.427	1414.470	8.09	0.55	0.32	5	5267.331	1012.041	9.58	1.03	0.80	5
5223.389	1418.533	7.87	0.44		7	5268.265	1012.221	9.56	0.98	0.73	5
5236.320	1422.045	8.49	0.83	0.62	5	VY CAR					
5238.366	1422.601	7.91	0.52	0.29	5	J.D.	CYCLES	V	B-V	U-B	RF
5244.355	1424.227	8.65	0.85	0.59	5	3777.015	199.474	7.35	1.18		9
5245.349	1424.497	7.95	0.50	0.28	5	3779.025	199.580	7.53	1.29		9
5256.309	1427.474	8.07	0.55	0.30	5	3796.920	200.525	7.48	1.22		9
5267.312	1430.462	8.09	0.57	0.34	5	3851.900	203.429	7.31	1.18		9
5270.302	1431.274	8.65	0.85	0.59	5	4472.178	236.187	6.91	0.80		9
5282.222	1434.511	8.02	0.49		-7	UY CAR					
5285.227	1435.327	8.67	0.81		7	J.D.	CYCLES	V	B-V	U-B	RF
5292.234	1437.230	8.61	0.85	0.61	5	4512.358	238.309	7.05	0.98		7
UY CAR						4513.322	238.360	7.17	1.07		7
J.D.	CYCLES	V	B-V	U-B	RF	4527.076	239.086	7.68	1.08		9
4513.312	814.130	8.72	0.66		7	4529.367	239.207	6.89	0.85		7
4519.378	815.224	8.61	0.66		7	4530.372	239.260	6.96	0.90		7
4529.356	817.024	9.17	0.88		7	VY CAR					
4531.348	817.383	8.77	0.78		7	4543.988	239.980	7.80	1.21		9
4536.302	818.277	8.67	0.70		7	4557.981	240.719	7.83	1.30		9
4890.392	882.149	8.66	0.70		7	4560.989	240.877	7.98	1.32		9
4896.339	883.222	8.64	0.66		7	4565.298	241.105	7.69	1.14		7
4907.273	885.194	8.61	0.66		7	4833.099	255.248	6.94	0.87		9
4929.299	889.167	8.62	0.65		7	UY CAR					
5164.454	931.585	9.03	0.96	0.71	5	4834.136	255.303	7.07	0.98		9
5184.419	935.187	8.56	0.68	0.42	5	4845.018	255.878	7.94	1.36		9
5189.476	936.099	8.78	0.80	0.50	5	4848.023	256.036	7.69	1.15		9
5192.478	936.640	9.08	0.97	0.69	5	4869.440	257.168	6.98	0.85		7
5198.445	937.717	9.13	1.00	0.73	5	4873.018	257.356	7.10	1.02		9
5201.384	938.247	8.60	0.69	0.42	5	4890.399	258.274	6.99	0.98		7
5208.432	939.518	8.94	0.91	0.68	5	4908.237	259.216	6.92	0.87		-7
5238.370	944.919	9.32	1.01	0.76	5	4920.971	259.889	7.92	1.32		9
5244.359	945.999	9.20	0.93	0.63	5	4928.072	260.264	6.93	0.84		9
5245.353	946.178	8.55	0.66	0.40	5	5161.455	272.590	7.57	1.41	1.18	5
5256.314	948.155	8.59	0.67	0.42	5	UZ CAR					
5267.317	950.140	8.59	0.69	0.46	5	5169.441	273.011	7.72	1.29	1.00	5
J.D.	CYCLES	V	B-V	U-B	RF	5177.428	273.433	7.27	1.22	0.99	5
4519.393	868.336	9.23	0.74		7	5201.395	274.699	7.78	1.48	1.25	5
4520.308	868.512	9.09	0.76		7	5208.456	275.072	7.71	1.28	0.99	5
4535.348	871.401	9.03	0.70		7	5223.311	275.856	7.99	1.50	1.38	6
4931.207	947.460	9.06	0.75		-7	WW CAR					
4936.207	948.421	9.04	0.71		-7	J.D.	CYCLES	V	B-V	U-B	RF
5165.412	992.459	9.01	0.76	0.49	5	5245.376	277.022	7.71	1.27	1.00	5
5167.415	992.844	9.41	1.02	0.80	5	5267.336	278.181	6.90	0.86	0.59	5
5192.495	997.663	9.24	0.91	0.65	5	5274.232	278.546	7.46	1.34	1.06	6
5195.464	998.233	9.58	0.96	0.68	5	WW CAR					
5198.449	998.807	9.36	1.02	0.72	5	4513.334	965.045	9.44	0.72		7
5208.448	1000.728	9.28	0.93	0.70	5	4519.403	966.343	9.66	0.90		7
5238.383	1006.479	9.04	0.74	0.49	5	4532.387	969.119	9.38	0.73		7
5242.366	1007.245	9.51	0.92	0.68	5	4865.456	1040.337	9.69	0.91		7
						4906.390	1049.089	9.43	0.77		7
						WW CAR					
						4925.238	1053.119	9.33	0.72		-7
						4930.236	1054.188	9.44	0.78		7

TABLE 1 (continued)

WW	CAR	CONT.					XY	CAR				
J.D.	CYCLES	V	B-V	U-B	RF		J.D.	CYCLES	V	B-V	U-B	RF
5165.458	1104.483	9.82	1.02	0.71	5		4513.385	362.953	9.12	1.18		7
5167.449	1104.909	10.04	1.04	0.72	5		4576.248	368.008	9.22	1.26		7
5198.484	1111.545	9.91	1.06	0.79	5		4578.261	368.170	9.50	1.44		7
							4587.188	368.888	9.07	1.12		7
5223.447	1116.882	10.09	1.04		7		4834.430	388.770	8.84	0.92		-7
5224.455	1117.098	9.35	0.72		7							
5242.399	1120.935	9.97	0.97	0.66	5		4835.490	388.855	8.95	1.03		7
5244.408	1121.364	9.68	0.95	0.65	5		4847.323	389.807	8.92	1.00		7
5256.349	1123.918	9.99	0.99	0.71	5		4885.424	392.871	9.02	1.06		7
							4886.420	392.951	9.10	1.16		7
5267.345	1126.269	9.54	0.85	0.60	5		5166.442	415.470	9.62	1.36	1.06	5
5270.331	1126.907	10.02	0.98	0.70	5							
5275.235	1127.956	9.84	0.96	0.56	6		5167.501	415.555	9.42	1.24	0.92	5
5276.196	1128.161	9.35	0.78	0.37	6		5194.543	417.729	9.07	1.05		7
5303.236	1133.943	10.01	1.00		7		5256.373	422.702	9.18	1.13	0.79	5
							5292.268	425.588	9.37	1.23	0.96	5
							5309.208	426.950	9.09	1.17	0.87	6
WZ	CAR											
J.D.	CYCLES	V	B-V	U-B	RF		5567.453	447.718	9.12	1.06		7
4529.378	196.865	9.19	1.19		-7		5616.350	451.650	9.41	1.20		7
4530.381	196.909	9.12	1.28		7		5628.318	452.612	9.41	1.22		7
4572.236	198.728	8.86	0.95		7		5640.235	453.571	9.42	1.25		7
4574.243	198.815	8.95	1.12		7		5641.226	453.650	9.34	1.20		7
4847.314	210.684	8.78	0.84		7		XZ	CAR				
4867.375	211.556	9.46	1.13		7		J.D.	CYCLES	V	B-V	U-B	RF
4869.455	211.646	8.72	0.80		7		4522.294	271.611	8.61	1.14		7
4885.415	212.340	9.84	1.53		7		4587.197	275.509	8.93	1.36		7
4886.403	212.383	9.84	1.47		7		5163.484	310.121	8.76	1.47	1.24	5
4895.405	212.774	8.94	1.06		7		5166.456	310.300	9.07	1.50	1.20	5
4896.350	212.815	9.04	1.13		7		5256.378	315.700	8.06	0.99	0.70	5
4907.284	213.291	9.78	1.57		7							
4914.315	213.596	8.76	0.83		7		5257.329	315.757	8.10	1.04	0.77	5
4917.332	213.727	8.89	1.01		7		5292.274	317.856	8.30	1.22	0.93	5
4920.342	213.858	9.07	1.22		7		5304.209	318.573	8.79	1.31	1.00	6
							5311.202	318.993	8.53	1.38	1.14	6
4934.194	214.460	9.88	1.44		7		YZ	CAR				
5165.482	224.513	9.87	1.36	1.09	-5		J.D.	CYCLES	V	B-V	U-B	RF
5167.466	224.599	8.71	0.84	0.50	5		4561.281	251.129	8.41	0.98		7
5186.485	225.426	9.99	1.49	1.05	-5		4564.268	251.293	8.37	1.12		-7
5242.421	227.857	9.05	1.19	0.92	5		4573.264	251.789	9.16	1.36		7
5244.424	227.944	9.16	1.32	1.06	5		4575.228	251.897	9.12	1.32		7
5267.350	228.941	9.18	1.33	1.01	5		4576.221	251.952	9.06	1.26		7
XX	CAR											
J.D.	CYCLES	V	B-V	U-B	RF		4578.205	252.061	8.85	1.16		7
4566.204	290.541	10.96	1.30		-7		4834.410	266.167	8.29	0.86		-7
4572.276	290.927	8.91	0.84		7		4835.467	266.225	8.36	0.89		7
4573.288	290.991	9.01	0.95		7		4890.384	269.248	8.38	0.99		7
4586.218	291.814	9.37	1.03		7		4907.265	270.178	8.30	0.91		7
4886.413	310.915	8.81	0.79		7		4943.244	272.159	8.34	0.90		7
							5164.438	284.337	8.44	1.04	0.71	5
4917.343	312.883	8.72	0.74		7		5185.507	285.497	8.69	1.22	0.92	5
4918.302	312.944	8.91	0.88		7		5189.467	285.715	9.01	1.36	1.03	5
4934.211	313.956	8.93	0.88		7		5192.465	285.880	9.02	1.31	1.02	5
5165.494	328.672	9.76	1.26	1.01	5		5195.438	286.044	8.86	1.18	0.87	5
5167.478	328.799	9.50	1.10	0.82	5		5198.435	286.209	8.27	0.91	0.60	5
							5201.373	286.370	8.52	1.09	0.79	5
5188.423	330.131	9.14	1.11	0.84	5		5208.421	286.758	9.03	1.35	1.09	5
5242.438	333.568	9.89	1.37	1.05	5		5223.273	287.576	8.82	1.31	0.97	6
5274.248	335.592	9.86	1.36	1.14	6		5238.359	288.407	8.56	1.12	0.79	5
5275.255	335.656	9.79	1.29	1.03	6							

TABLE 1 (continued)

YZ	CAR	CONT.				CC	CAR	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5244.344	288.736	8.99	1.35	1.04	5	5627.230	1182.258	12.20	1.32		7
5245.342	288.791	9.02	1.30	1.02	5	5639.210	1184.775	11.84	1.18		7
5267.300	290.000	8.90	1.21	0.89	5	5640.224	1184.988	12.02	1.23		7
5268.276	290.054	8.81	1.10	0.82	5	5641.215	1185.196	12.14	1.35		7
5270.295	290.165	8.25	0.91	0.61	5						
AQ CAR											
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4510.351	461.647	8.81	0.96		7	4510.337	914.392	10.28	0.92		7
4519.369	462.570	8.73	0.89		7	4535.289	919.450	10.42	0.96		7
4529.347	463.591	8.75	0.95		7	4536.287	919.653	10.69	1.17		7
4567.212	467.466	8.60	0.84		-7	4564.251	925.322	10.41	1.09		-7
4930.207	504.620	8.82	0.98		-7	4885.375	990.424	10.41	0.95		7
5164.433	528.594	8.74	0.97	0.72	5	4929.253	999.319	10.40	0.97		7
5184.407	530.638	8.80	1.00	0.80	5	5165.397	1047.194	10.86	1.13	0.82	-5
5185.502	530.750	8.97	1.11	0.89	5	5166.386	1047.394	10.25	0.94	0.65	5
5192.457	531.462	8.60	0.86	0.62	5	5184.390	1051.044	10.95	1.24	0.86	-5
5195.430	531.766	9.02	1.11	0.92	5	5185.489	1051.267	10.57	1.03	0.74	5
5198.428	532.073	8.94	0.98	0.72	5	5192.440	1052.676	10.68	1.16	0.84	-5
5201.370	532.374	8.56	0.79	0.54	5	5195.414	1053.279	10.52	1.01	0.72	5
5208.417	533.095	8.88	0.95	0.69	5	5223.267	1058.926	10.89	1.27	0.92	6
5238.354	536.160	8.84	0.91	0.65	5	5239.327	1062.182	10.88	1.19	0.91	-5
5244.340	536.772	9.01	1.12	0.89	5	5242.339	1062.792	10.77	1.22	0.88	-5
5246.317	536.975	9.10	1.09	0.86	5	5244.325	1063.195	10.88	1.12	0.97	-5
5256.304	537.997	9.07	1.08	0.83	5	5245.329	1063.398	10.31	0.97	0.63	5
5257.305	538.099	8.88	0.95	0.67	5	5267.282	1067.849	10.79	1.25	0.96	-5
5267.295	539.122	8.87	0.94	0.66	5	5270.277	1068.456	10.37	1.01	0.73	5
5308.228	543.311	8.78	0.84		7	5274.203	1069.252	10.55	1.06	0.62	6
5309.210	543.412	8.58	0.82		7	5275.223	1069.459	10.37	1.01	0.59	6
5310.215	543.515	8.78	0.93		7						
5535.478	566.571	8.73	0.94		7	CR CAR					
5573.484	570.461	8.67	0.85		7	J.D.	CYCLES	V	B-V	U-B	RF
5611.341	574.336	8.72	0.81		7	4920.302	504.042	11.37	1.21		7
5620.299	575.253	8.76	0.84		7	4921.307	504.145	11.50	1.24		-7
CC CAR											
J.D.	CYCLES	V	B-V	U-B	RF	4930.224	505.058	11.33	1.26		-7
4534.352	952.649	11.76	0.99		7	5164.465	529.054	11.33	1.19	0.92	-5
4535.371	952.863	11.90	1.14		7	5167.398	529.354	11.69	1.45	1.06	-5
4562.299	958.521	12.29	1.26		7	5184.430	531.099	11.41	1.26	1.02	-5
4567.267	959.564	12.45	1.16		-7	5185.517	531.210	11.52	1.36	0.88	-5
4925.252	1034.776	11.18	1.40		-7	5192.483	531.924	11.46	1.20	0.79	-5
4953.229	1040.653	11.35	0.18		-7	5195.452	532.228	11.54	1.44	1.18	-5
5224.480	1097.642	11.75	1.08		7	5223.287	535.080	11.31	1.25	0.72	6
5253.276	1103.692	11.69	1.06		7	5239.345	536.725	11.56	1.32	0.86	-5
5281.300	1109.580	11.85	1.18		7	5242.353	537.033	11.36	1.18	0.98	-5
5282.234	1109.776	11.91	1.16		-7	5244.363	537.239	11.54	1.39	1.22	-5
5535.539	1162.994	12.02	1.22		7	5246.325	537.440	11.77	1.37	0.95	-5
5555.500	1167.188	12.20	1.33		7	5256.326	538.464	11.76	1.37	0.95	-5
5567.439	1169.696	11.69	1.09		7	5268.282	539.689	11.60	1.33	0.86	-5
5580.375	1172.414	12.25	1.36		7	5270.308	539.897	11.44	1.18	0.85	-5
5595.385	1175.568	12.01	1.19		7	5276.235	540.504	11.84	1.43	0.93	-6
5609.390	1178.510	12.19	1.26		7	5281.249	541.017	11.21	1.17		-7
5623.323	1181.437	12.23	1.30		7	5308.239	543.782	11.64	1.30		7
5624.242	1181.631	11.77	1.07		7	5309.219	543.883	11.46	1.23		7
						5535.492	567.062	11.31	1.20		7
						5573.500	570.956	11.44	1.30		7
						5611.369	574.835	11.48	1.22		7

TABLE I (continued)

CR	CAR	CONT.				DY	CAR	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5624.231	576.153	11.44	1.28		7	5166.416	1105.180	11.61	1.29	1.17	-5
	CT CAR					5167.454	1105.402	11.77	1.10	0.57	-5
J.D.	CYCLES	V	B-V	U-B	RF	5184.456	1109.039	11.52	1.20	0.92	-5
						5185.525	1109.267	11.76	1.35	0.94	-5
						5189.495	1110.117	11.71	1.31	1.31	-5
4517.318	250.177	11.73	1.07		7	5223.318	1117.352	11.64	1.18	0.86	6
4533.338	251.064	12.39	1.58		7	5224.468	1117.598	10.99	0.78		7
4534.311	251.118	12.29	1.26		7	5242.404	1121.435	11.44	1.28	0.84	-5
4535.362	251.176	11.67	1.15		7	5244.416	1121.865	11.30	1.09	0.82	-5
4574.215	253.328	11.94	1.22		-7	5246.351	1122.279	11.58	1.35	1.07	-5
5184.447	287.124	12.20	1.26	1.09	-5	5253.263	1123.758	11.18	0.96		7
5189.488	287.403	12.36	1.64		-5	5256.354	1124.419	11.43	1.15	0.78	-5
5192.504	287.570	12.47	1.83		-5	5270.336	1127.410	11.51	1.19	0.98	-5
5223.303	289.276	11.77	1.19	0.86	6	5274.239	1128.245	11.65	1.22	0.87	6
5242.371	290.332	11.86	1.17	0.97	-5	5275.241	1128.459	11.33	0.98	0.63	6
5244.386	290.443	12.08	1.51	1.02	-5	ER CAR					
5245.367	290.497	12.32	1.54		-5	J.D.	CYCLES	V	B-V	U-B	RF
5246.335	290.551	12.36	1.94		-5	4519.424	585.584	6.64	0.69		7
5274.222	292.096	12.44	1.40	1.03	-6	4533.364	587.390	7.02	0.91		7
5275.230	292.151	11.93	1.20	0.80	-6	4534.384	587.522	6.70	0.71		7
5275.284	292.154	11.87	1.38		-7	4834.438	626.401	6.99	0.88		-7
5276.239	292.207	11.71	1.12	0.60	6	4835.498	626.538	6.66	0.73		7
5296.239	293.315	12.01	1.24		7	4890.419	633.654	6.61	0.75		7
5567.408	308.333	11.88	1.34		7	4943.268	640.502	6.81	0.78		7
5636.221	312.144	12.24	1.25		-7	5161.474	668.775	6.69	0.84	0.60	5
5637.270	312.202	11.86	1.07		-7	5169.456	669.809	6.70	0.85	0.60	5
5638.252	312.256	11.79	1.27		7	5176.443	670.714	6.62	0.79	0.54	5
CY CAR											
J.D.	CYCLES	V	B-V	U-B	RF	5177.441	670.844	6.69	0.85	0.61	5
4522.287	1060.120	9.96	1.00		7	5201.417	673.950	6.79	0.91	0.67	5
4890.410	1146.416	9.53	0.86		7	5208.472	674.864	6.70	0.86	0.61	5
4914.333	1152.024	10.00	1.07		7	5216.371	675.888	6.72	0.84	0.57	6
5166.425	1211.119	9.96	1.02	0.84	5	5236.348	678.476	6.75	0.83	0.57	5
5167.489	1211.369	9.45	0.81	0.53	5	5238.403	678.743	6.65	0.82	0.57	5
5242.442	1228.939	10.06	1.12	0.86	5	5239.375	678.868	6.72	0.86	0.62	5
5246.365	1229.859	10.01	1.12	0.89	5	5253.303	680.673	6.60	0.73		7
5256.360	1232.202	9.70	0.89	0.64	5	5257.333	681.195	7.04	1.04	0.81	5
5270.359	1235.484	9.62	0.93	0.66	5	5292.281	685.724	6.64	0.80	0.55	5
5276.251	1236.865	9.91	1.07	0.71	6	5306.198	687.527	6.71	0.78	0.49	6
5282.249	1238.271	9.68	0.83		-7	5310.213	688.047	6.89	0.97	0.69	6
5303.249	1243.194	9.85	0.95		7	5555.534	719.833	6.73	0.85		7
5308.251	1244.366	9.57	0.81		7	5608.340	726.675	6.61	0.74		7
5309.204	1244.590	9.69	0.97	0.69	6	5616.359	727.715	6.74	0.78		7
5535.556	1297.651	9.79	0.99		7	5623.333	728.618	6.57	0.68		7
5568.449	1305.362	9.47	0.79		7	5624.253	728.737	6.69	0.79		7
5573.522	1306.551	9.71	0.93		7	EY CAR					
5611.400	1315.431	9.61	0.85		7	J.D.	CYCLES	V	B-V	U-B	RF
DY CAR											
J.D.	CYCLES	V	B-V	U-B	RF	4517.330	1570.770	10.41	1.01		7
4513.343	965.477	11.39	0.98		7	4520.317	1571.809	10.12	0.76		7
4546.276	972.522	11.09	0.80		7	4532.368	1575.999	10.09	0.76		7
4579.235	979.572	10.96	0.81		7	4566.213	1587.768	10.56	0.91		-7
4953.213	1059.572	11.05	0.87		7	4572.212	1589.854	10.24	0.81		7
5165.467	1104.977	11.49	1.19	0.85	-5	4917.322	1709.856	10.14	0.81		7
						4920.325	1710.900	10.22	0.80		7

TABLE 1 (continued)

EY J.D.	CAR CYCLES	V	B-V	U-B	RF	FO J.D.	CAR CYCLES	V	B-V	U-B	RF	CONT. CAR
5165.436	1796.130	10.19	0.90	0.63	5	5166.437	498.888	11.04	1.45	1.01	-5	
5167.430	1796.823	10.09	0.79	0.48	5	5167.496	498.991	10.84	1.29	1.04	-5	
5192.508	1805.543	10.46	0.92	0.64	5	5216.347	503.708	11.11	1.45	0.81	6	
5198.458	1807.612	10.69	0.81	0.53	5	5253.290	507.275	10.54	1.13		7	
5242.381	1822.885	10.01	0.73	0.44	5	5274.261	509.300	10.59	1.14	0.64	6	
5244.390	1823.584	10.53	0.91	0.57	5	5275.269	509.397	10.54	1.15	0.84	6	
5245.371	1823.925	10.13	0.76	0.50	5	5279.190	509.776	11.09	1.36	1.12	6	
5256.310	1827.729	10.44	0.86		7	5304.203	512.191	10.63	1.19	0.86	6	
5256.340	1827.739	10.31	0.87	0.60	5	5308.262	512.583	10.79	1.34		7	
5270.327	1832.603	10.63	0.89	0.55	5							
5276.246	1834.661	10.53	0.94	0.44	6							
5285.260	1837.795	10.27	0.82		7							
5567.421	1935.908	10.02	0.75		7							
5568.437	1936.262	10.42	0.89		7	4520.378	421.783	9.62	1.04		7	
5573.511	1938.026	10.12	0.81		7	4521.326	421.872	9.37	0.93		7	
5608.330	1950.133	10.26	0.84		7	4533.377	422.996	9.37	1.02		7	
						4865.468	453.983	9.38	1.02		7	
						4918.312	458.913	9.38	0.98		7	
FI CAR						J.D.	CYCLES	V	B-V	U-B	RF	CONT. CAR
4569.252	339.615	11.33	1.43			4929.310	459.940	9.37	0.99		7	
4570.286	339.692	11.51	1.53			5166.463	482.068	9.46	1.10	0.81	5	
5194.526	386.090	11.93	1.85			5167.512	482.166	9.60	1.22	0.95	5	
5223.400	388.236	11.75	1.75			5184.475	483.748	9.69	1.08	0.79	5	
5224.442	388.313	11.86	1.65			5188.432	484.118	9.52	1.17	0.91	5	
						5243.376	489.244	9.71	1.27	1.05	5	
						5245.409	489.434	10.03	1.35	1.07	-5	
5281.287	392.538	11.37	1.42			5246.378	489.524	9.99	1.31	1.01	5	
5285.282	392.835	11.55	1.60			5250.415	489.901	9.33	0.94	0.66	5	
5535.520	411.434	11.70	1.58			5251.384	489.991	9.36	1.02		7	
5574.374	414.322	11.84	1.68									
5629.258	418.402	11.72	1.51			5256.391	490.459	10.04	1.38	1.09	-5	
						5257.349	490.548	9.95	1.28	1.02	5	
5630.291	418.478	11.66	1.52			5272.212	491.935	9.30	1.01	0.65	6	
						5273.217	492.029	9.39	1.07	0.77	6	
						5282.270	492.873	9.52	0.99		7	
FN CAR						5315.219	495.948	9.42	1.02		7	CONT. CAR
FI CAR						J.D.	CYCLES	V	B-V	U-B	RF	FZ CAR
4513.375	984.230	11.64	1.10			4533.354	1267.004	11.90	1.15		7	
4546.290	991.408	11.22	0.95			4561.295	1274.813	11.85	1.21		7	
4574.257	997.507	11.35	1.07			4576.233	1278.988	11.91	1.19		7	
4839.303	1055.305	11.32	1.08			4580.221	1280.103	11.88	1.29		-7	
4867.383	1061.429	11.24	0.97			5184.461	1448.979	11.27	0.54	0.31	-5	
4917.365	1072.328	11.33	0.97			5188.418	1450.085	11.79	1.20	0.79	-5	
5184.466	1130.575	11.55	1.08	0.79	-5	5189.503	1450.388	12.03	1.18	0.91	-5	
5216.340	1137.526	11.33	1.06	0.74	6	5223.364	1459.852	11.80	1.09	0.73	6	
5223.371	1139.059	11.81	1.23	0.90	6							
5242.446	1143.219	11.67	1.17	0.84	-5	5244.421	1465.737	11.73	1.14	0.70	-5	
						5245.389	1466.007	11.76	1.12	0.75	-5	
5270.364	1149.307	11.30	1.08	0.67	-5	5270.352	1472.984	11.94	1.19	0.72	-5	
5274.253	1150.155	11.77	1.21	0.83	6	5275.246	1474.352	12.11	1.23	0.92	-6	
5275.260	1150.374	11.17	0.98	0.63	6							
FO CAR						J.D.	CYCLES	V	B-V	U-B	RF	GH CAR
4529.405	437.374	10.52	1.23			4520.357	789.468	9.07	0.90		7	
4575.253	441.802	11.05	1.44			4521.277	789.628	9.13	0.93		7	
4578.251	442.091	10.84	1.28			4588.219	801.320	9.07	0.92		7	
4580.237	442.283	10.48	1.10									
4943.256	477.337	10.46	1.12									

TABLE 1 (continued)

GH CAR						CONT.						GX CAR					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4834.445	844.322	9.02	0.86		-7	5184.379	720.407	9.33	1.02	0.72	5						
4835.505	844.507	9.05	0.87		7	5185.480	720.560	8.97	0.90	0.59	5						
4921.346	859.499	9.06	0.91		7	5192.434	721.526	8.96	0.87	0.59	5						
5163.493	901.789	9.27	0.96	0.71	5	5239.319	728.041	9.52	1.24	0.96	5						
5177.448	904.227	9.15	1.01	0.73	5	5242.335	728.460	9.08	0.92	0.64	5						
5201.421	908.414	9.01	0.87	0.56	5	5257.296	730.539	8.95	0.87	0.57	5						
5208.480	909.646	9.10	0.95	0.63	5	5267.277	731.926	9.39	1.16	0.88	5						
5236.357	914.515	9.01	0.98	0.63	5	5270.271	732.342	9.55	1.11	0.85	5						
5238.407	914.873	9.24	1.04	0.72	5	5276.220	733.169	9.71	1.28	0.97	6						
5243.359	915.738	9.15	0.99	0.69	5												
5245.405	916.095	9.28	1.01	0.71	5												
5256.383	918.012	9.30	1.03	0.72	5												
GZ CAR						J.D. CYCLES V B-V U-B RF						J.D. CYCLES V B-V U-B RF					
5257.340	918.180	9.17	0.98	0.66	5	4513.286	1085.225	10.19	0.97		7						
5292.286	924.283	9.04	0.93	0.62	5	4517.288	1086.187	10.10	0.91		7						
5555.545	970.260	9.13	0.93		7	4521.249	1087.139	10.22	0.98		7						
5567.498	972.348	9.04	0.89		7	4529.339	1089.085	10.10	0.94		7						
5568.460	972.516	9.05	0.92		7	4561.214	1096.749	10.20	1.01		7						
5580.388	974.599	9.11	0.95		7												
5608.351	979.483	9.06	0.90		7												
5609.405	979.667	9.18	0.96		7	4812.445	1157.158	10.19	0.97		7						
5611.412	980.017	9.37	1.03		7	4869.403	1170.853	10.18	0.94		7						
						4886.321	1174.921	10.11	0.90		7						
						4895.331	1177.088	9.98	0.93		-7						
						4917.294	1182.369	10.34	1.10		7						
GI CAR						J.D. CYCLES V B-V U-B RF						J.D. CYCLES V B-V U-B RF					
4512.382	1018.456	8.16	0.61		7	4919.306	1182.853	10.21	0.95		7						
4520.368	1020.259	8.38	0.73		7	4924.250	1184.041	10.06	0.89		-7						
4521.286	1020.466	8.18	0.63		7	4931.196	1185.711	10.37	1.04		-7						
4530.405	1022.524	8.14	0.66		7	4943.210	1188.600	10.34	1.04		-7						
4835.513	1091.388	8.24	0.67		7	5164.417	1241.790	10.45	1.10	0.79	5						
						5166.411	1242.269	10.26	0.97	0.72	5						
4867.395	1098.584	8.21	0.64		7	5184.396	1246.594	10.41	1.10	0.81	5						
5169.470	1166.763	8.30	0.76	0.51	5	5185.494	1246.858	10.16	0.93	0.63	5						
5176.459	1168.340	8.25	0.73	0.48	5	5192.446	1248.529	10.28	1.08	0.79	5						
5177.461	1168.566	8.12	0.67	0.43	5	5195.419	1249.244	10.17	1.03	0.68	5						
5201.431	1173.976	8.42	0.82	0.56	5	5198.418	1249.965	10.09	1.00	0.67	5						
5208.491	1175.570	8.11	0.68	0.43	5	5239.331	1259.803	10.20	1.01	0.71	5						
5236.370	1181.862	8.31	0.81	0.55	5	5242.345	1260.528	10.33	1.02	0.76	5						
5238.420	1182.325	8.28	0.74	0.49	5	5244.329	1261.005	9.99	0.91	0.61	5						
5243.372	1183.443	8.14	0.68	0.42	5	5245.338	1261.247	10.19	1.01	0.80	5						
5250.410	1185.031	8.41	0.82	0.55	5	5257.300	1264.124	10.12	1.00	0.73	5						
5253.313	1185.686	8.27	0.71		7	5270.286	1267.246	10.16	0.99	0.68	5						
5292.299	1194.485	8.11	0.67	0.41	5	5274.208	1268.189	10.05	0.96	0.53	6						
5304.217	1197.175	8.42	0.82	0.49	6	5276.225	1268.674	10.37	1.06	0.64	6						
5310.226	1198.532	8.24	0.67		7												
5328.216	1202.592	8.23	0.68		7												
GX CAR						J.D. CYCLES V B-V U-B RF						J.D. CYCLES V B-V U-B RF					
4522.252	628.400	9.33	1.01		7	4529.412	676.443	10.05	0.95		7						
4523.270	628.541	8.98	0.86		7	4535.374	677.333	9.98	0.92		7						
4531.328	629.661	9.12	0.99		7	4568.211	682.237	10.10	0.97		-7						
4545.232	631.593	9.06	0.90		7	4917.373	734.383	10.00	0.99		7						
4839.261	672.450	9.12	0.93		7	4924.314	735.419	10.04	0.98		-7						
						5163.478	771.137	10.29	1.16	0.82	5						
5163.419	717.494	8.96	0.86	0.57	5	5166.451	771.581	10.06	1.08	0.74	5						
5164.408	717.632	9.09	0.97	0.65	5	5216.364	779.035	10.44	1.13	0.84	6						
5166.381	717.906	9.30	1.18	0.87	5	5245.401	783.372	9.96	0.99	0.64	5						

TABLE 1 (continued)

HK	CAR	CONT.				RS	CAS	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5272.203	787.375	10.00	0.95	0.59	6	6793.868	1079.159	9.85	1.49	1.10	3
						6796.845	1079.632	10.34	1.68		2
5306.204	792.453	10.04	0.98	0.66	6	6806.881	1081.226	9.93	1.52	1.11	2
5310.209	793.051	10.44	1.16	0.84	6	6807.800	1081.372	10.03	1.61	1.13	3
IT CAR						6807.884	1081.386	10.07	1.57	1.21	2
						6808.810	1081.533	10.22	1.64	1.25	3
J.D.						6808.827	1081.535	10.27	1.65	1.30	2
						6809.793	1081.689	10.29	1.59	1.29	3
4546.300	603.310	8.19	1.01		7	6810.848	1081.856	9.65	1.32	0.88	3
4847.333	643.258	8.20	1.06		7						
4907.294	651.215	8.17	1.04		7	6811.809	1082.009	9.61	1.37	0.89	3
4908.246	651.341	8.26	1.10		7	6812.767	1082.161	9.88	1.49	1.08	2
4914.344	652.150	8.12	0.99		7	6815.893	1082.658	10.32	1.67	1.33	2
						6816.790	1082.800	9.90	1.43	0.99	3
4916.278	652.407	8.33	1.09		7	6817.794	1082.960	9.57	1.33	0.98	3
4924.324	653.475	8.37	1.12		7						
4930.292	654.267	8.18	1.07		7	6825.677	1084.212	9.95	1.53		4
5161.480	684.946	7.97	0.94	0.69	5	6825.858	1084.241	9.94	1.53		4
5169.461	686.005	7.98	0.97	0.72	5	6826.862	1084.400	10.12	1.62		4
						6827.656	1084.526	10.27	1.66		4
5176.452	686.933	7.93	0.94	0.71	5	6827.868	1084.560	10.28	1.69		4
5177.452	687.066	7.99	0.99	0.77	5						
5201.427	690.247	8.14	1.05	0.82	5	6829.837	1084.873	9.61	1.29		4
5208.484	691.184	8.04	1.05	0.77	5	6830.820	1085.029	9.70	1.37		4
5236.361	694.883	7.99	0.93	0.67	5	6832.815	1085.346	10.04	1.56		4
						6833.667	1085.481	10.22	1.66		4
5238.415	695.156	8.07	1.02	0.78	5	6837.650	1086.114	9.82	1.45		4
5239.379	695.284	8.16	1.07	0.82	5						
5243.363	695.812	7.93	0.91	0.65	5	6837.871	1086.149	9.87	1.50		4
5246.370	696.211	8.11	1.05	0.79	5	6843.709	1087.076	9.73	1.41		4
5251.372	696.875	7.97	0.90		7	6845.754	1087.401	10.10	1.57	1.25	3
						6846.718	1087.554	10.26	1.67		4
5282.260	700.974	8.16	0.99		7	6846.763	1087.561	10.24	1.67	1.23	-3
5292.291	702.305	8.18	1.08	0.84	5						
5309.213	704.551	8.21	1.06	0.77	6	6847.690	1087.708	10.26	1.61		4
5328.208	707.072	8.14	0.98		7	6848.676	1087.865	9.61	1.30		4
5567.506	738.827	7.97	0.90		7	6848.784	1087.882	9.57	1.27	0.92	3
						6849.763	1088.038	9.66	1.41	0.99	3
5573.532	739.627	8.17	0.98		7	6852.605	1088.489	10.21	1.69	1.30	2
5574.383	739.740	7.99	0.93		-7						
5611.421	744.655	8.16	0.98		7	6853.696	1088.662	10.33	1.62	1.26	2
5620.309	745.834	7.97	0.88		7	6857.655	1089.291	9.98	1.54		2
5621.394	745.978	8.05	0.96		7	6866.638	1090.718	10.24	1.60		4
						6867.636	1090.877	9.57	1.28		4
RS CAS						6869.625	1091.193	9.88	1.50		4
J.D.						6876.654	1092.309	10.00	1.52		4
						6879.626	1092.781	9.97	1.45		4
6741.871	1070.900	9.55	1.28		2	6880.628	1092.940	9.55	1.28		4
6742.841	1071.054	9.73	1.42		2	6941.570	1102.621	10.30	1.69		4
6745.917	1071.543	10.28	1.70		2	6942.591	1102.783	9.98	1.48		4
						6943.580	1102.940	9.56	1.30		4
						6954.572	1104.686	10.30	1.62		4
6749.940	1072.182	9.86	1.50		2	6955.560	1104.843	9.73	1.36		4
6759.911	1073.765	10.09	1.51		2	6979.581	1108.658	10.30	1.65		4
6760.912	1073.924	9.59	1.27		2	6980.575	1108.816	9.83	1.41		4
6774.920	1076.149	9.81	1.50		3						
6783.960	1077.585	10.31	1.67		3	7184.835	1141.262	9.90	1.55	1.18	1
						7203.844	1144.281	9.98	1.55	1.15	1
6784.857	1077.728	10.22	1.56		3	7206.756	1144.744	10.16	1.56	1.13	1
6786.907	1078.053	9.73	1.36	1.07	3	7217.716	1146.485	10.21	1.70	1.28	1
6787.894	1078.210	9.92	1.51	1.11	3	7220.727	1146.963	9.57	1.30	0.96	1
6789.986	1078.543	10.25	1.60		3						
6791.892	1078.845	9.72	1.32	0.94	3	7221.735	1147.123	9.81	1.46	1.04	1
						7240.715	1150.138	9.80	1.46	1.13	1
6792.825	1078.994	9.60	1.34	0.92	3	7241.756	1150.303	9.99	1.55	1.17	1

TABLE I (continued)

RS	CAS	CONT.						RW	CAS	CONT.									
		J.D.	CYCLES	V	B-V	U-B	RF			J.D.	CYCLES	V	B-V	U-B	RF				
7251.689	1151.881	9.57	1.28	0.88	1			7635.657	515.993	9.08	1.33	1.08	1						
7253.656	1152.193	9.90	1.52	1.10	1			7645.759	516.675	9.08	1.09	0.79	1						
7267.626	1154.412	10.10	1.61	1.25	1			7646.655	516.736	8.57	0.92	0.65	1						
7273.606	1155.362	10.02	1.57	1.25	1			7647.656	516.803	8.73	0.99	0.76	1						
								7649.681	516.940	9.03	1.22	0.95	1						
								7654.666	517.277	9.54	1.60	1.39	1						
RW CAS																			
J.D.	CYCLES	V	B-V	U-B	RF			7656.633	517.410	9.75	1.54	1.40	1						
3151.927	212.997	8.93	1.27			8		7658.675	517.548	9.34	1.36	0.88	1						
3152.913	213.064	9.06	1.36			8		7660.655	517.682	8.96	1.03	0.73	1						
3153.962	213.134	9.23	1.43			8		RY CAS											
3154.920	213.199	9.36	1.45			8		J.D.	CYCLES	V	B-V	U-B	RF						
3158.882	213.467	9.80	1.58			8		3159.882	213.534	9.70	1.50								
3178.895	214.819	8.85	0.97			8		3179.792	214.880	8.88	1.09								
3179.792	214.880	8.88	1.09			8		3180.795	214.948	8.92	1.21								
3206.722	216.700	9.41	1.29			8		3223.656	218.520	9.71	1.54								
3238.660	218.858	8.80	1.07			8		3238.660	218.858	8.80	1.07								
6825.712	461.259	9.59	1.54			4		6825.712	461.259	9.54	1.57								
6825.871	461.270	9.54	1.57			4		6826.881	461.338	9.68	1.59								
6827.754	461.397	9.76	1.59			4		6827.754	461.397	9.76	1.59								
6827.922	461.408	9.75	1.59			4		6828.850	461.471	9.73	1.50								
6828.850	461.471	9.73	1.50			4		6829.920	461.544	9.52	1.37								
6829.920	461.544	9.52	1.37			4		6830.916	461.611	9.44	1.27								
6832.875	461.743	8.63	0.88			4		6832.875	461.743	8.63	0.88								
6837.760	462.073	9.21	1.39			4		6843.826	462.483	9.66	1.49								
6843.826	462.483	9.66	1.49			4		6847.756	462.749	8.63	0.90								
6847.756	462.749	8.63	0.90			4		6942.639	469.161	9.36	1.46								
6949.691	469.637	9.43	1.26			4		6949.691	469.637	9.43	1.26								
6951.650	469.770	8.74	0.96			4		6951.650	469.770	8.74	0.96								
6953.643	469.904	8.92	1.15			4		6953.643	469.904	8.92	1.15								
6954.639	469.972	9.02	1.26			4		6954.639	469.972	9.02	1.26								
6975.606	471.388	9.73	1.56			4		6975.606	471.388	9.73	1.56								
6979.608	471.659	9.33	1.22			4		7000.603	471.726	8.59	0.85								
6980.603	471.726	8.59	0.85			4		6981.596	471.793	8.76	0.98								
6981.596	471.793	8.76	0.98			4		6982.609	471.862	8.85	1.08								
6982.609	471.862	8.85	1.08			4		7155.856	483.569	9.47	1.29	1.37	1	6811.820	561.332	9.74	1.31	0.99	2
7155.856	483.569	9.47	1.29	1.37	1			6811.873	561.336	9.71	1.31	0.98	3						
7162.917	484.046	9.15	1.40	1.14	1			6812.669	561.402	9.84	1.37	1.05	2						
7267.681	491.126	9.27	1.45	1.27	1			6812.867	561.418	9.86	1.36	1.03	3						
7522.921	508.374	9.76	1.56	1.45	1			6813.730	561.489	9.93	1.46	1.09	2						
7592.767	513.094	9.18	1.42	1.22	1			6813.861	561.500	9.97	1.45	1.27	3						
7593.798	513.164	9.34	1.47	1.29	1			6814.821	561.579	10.11	1.54	1.13	3						
7595.837	513.302	9.61	1.58	1.42	1			6816.761	561.739	10.36	1.59	1.40	2						
7597.791	513.434	9.68	1.53	1.41	1			6817.758	561.821	10.38	1.58	1.29	2						
7600.745	513.633	9.42	1.27	1.01	1			6827.668	562.638	10.21	1.62	1.40	4						
7601.655	513.695	8.81	0.94	0.70	1			6827.881	562.656	10.23	1.60	1.40	4						
7619.692	514.914	8.92	1.19	0.95	1			6830.857	562.901	10.31	1.52								
7621.740	515.052	9.12	1.38	1.20	1			6832.847	563.065	9.95	1.32								
7623.665	515.182	9.37	1.50	1.34	1			6833.795	563.143	9.70	1.24								
7625.697	515.319	9.84	1.56	1.54	1			6836.733	563.385	9.77	1.36	1.13	2						
7626.717	515.388	9.70	1.57	1.38	1			6837.677	563.463	9.91	1.43								
								6844.796	564.049	9.97	1.36	0.94	3						
								6845.797	564.132	9.77	1.26	0.94	3						
								6846.670	564.204	9.43	1.11	0.89	2						
								6846.794	564.214	9.41	1.11	0.88	3						

TABLE I (continued)

RY	CAS	CONT.				SW	CAS	V	B-V	U-B	RF		
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6846.892	564.222	9.34	1.11	0.85	2			6741.816	1239.090	10.03	1.31		2
						6742.877	1239.285	9.61	1.05		1.20		2
6847.709	564.290	9.59	1.19			4		6745.822	1239.827	9.88	1.20		2
6848.697	564.371	9.76	1.35			4		6746.860	1240.017	9.97	1.29		2
6853.702	564.783	10.36	1.61	1.33	2			6748.924	1240.397	9.35	0.96		2
6858.587	565.186	9.50	1.15			2							
6866.706	565.855	10.35	1.55			4		6749.931	1240.582	9.59	0.99		2
						6757.853	1242.038	10.04	1.29				2
6867.691	565.936	10.20	1.49			4		6758.819	1242.215	9.90	1.17		2
6869.682	566.100	9.85	1.30			4		6759.903	1242.415	9.39	0.98		2
6876.748	566.682	10.24	1.59			4		6768.936	1244.075	9.97	1.24		3
6879.681	566.924	10.22	1.49			4							
6880.675	567.006	10.03	1.38			4		6772.963	1244.815	9.77	1.21	0.79	3
						6773.948	1244.996	9.92	1.30	0.88		-3	
6943.593	572.191	9.49	1.11			4		6774.896	1245.170	9.92	1.21	0.77	3
6948.588	572.603	10.11	1.56			4		6781.956	1246.468	9.30	0.98	0.73	2
6955.609	573.181	9.52	1.15			4		6785.982	1247.208	9.78	1.21	0.69	3
6975.591	574.828	10.36	1.59			4		6786.898	1247.376	9.34	0.94	0.64	3
6980.581	575.239	9.46	1.13			4		6787.888	1247.558	9.60	1.06	0.67	3
6982.582	575.404	9.78	1.34			4		6791.854	1248.287	9.56	1.03	0.68	3
						6792.817	1248.464	9.38	1.00	0.70		3	
						6793.819	1248.648	9.58	1.17	0.73		3	
SU	CAS	J.D.	CYCLES	V	B-V	U-B	RF	6805.818	1250.853	9.89	1.11	0.90	3
		J.D.	CYCLES	V	B-V	U-B	RF	6806.801	1251.034	9.95	1.24	0.88	3
6825.775	3501.620	6.01	0.74			4		6806.853	1251.044	10.00	1.30	0.98	2
6825.882	3501.675	6.00	0.77			4		6810.797	1251.768	9.70	1.23	0.83	3
6826.885	3502.190	5.87	0.69			4		6811.800	1251.953	9.89	1.23	0.95	3
6827.758	3502.638	6.03	0.75			4		6812.798	1252.136	9.97	1.23	0.96	3
6827.975	3502.749	6.04	0.77			4		6813.790	1252.319	9.44	0.99	0.68	3
6828.861	3503.203	5.87	0.68			4		6814.805	1252.505	9.45	1.04	0.72	3
6829.930	3503.752	6.09	0.80			4		6815.793	1252.687	9.68	1.15	0.85	3
6830.956	3504.278	5.75	0.62			4		6817.778	1253.052	9.96	1.23	0.93	3
6837.819	3507.799	6.10	0.81			4		6819.775	1253.419	9.35	0.97	0.67	3
6837.952	3507.867	6.15	0.81			4		6827.650	1254.866	9.84	1.25		4
6843.887	3510.912	6.12	0.79			4		6827.863	1254.905	9.89	1.25		4
6847.801	3512.920	6.14	0.80			4		6828.838	1255.084	10.04	1.32		4
6847.845	3512.942	6.15	0.80			4		6829.815	1255.264	9.67	1.07		4
7215.774	3701.690	6.01	0.77	0.45	1			6830.805	1255.446	9.39	0.99		4
7222.750	3705.268	5.79	0.65	0.41	1			6831.796	1255.628	9.64	1.11		4
7240.772	3714.513	5.87	0.70	0.40	1			6832.746	1255.803	9.80	1.25		4
7267.713	3728.334	5.77	0.65	0.40	1			6833.643	1255.967	9.95	1.30		4
7592.780	3895.094	6.04	0.75	0.51	1			6837.625	1256.699	9.70	1.17		4
7597.784	3897.661	5.99	0.74	0.51	1			6837.860	1256.742	9.75	1.24		4
7600.756	3899.185	5.91	0.69	0.48	1			6843.691	1257.814	9.79	1.22		4
7601.660	3899.649	6.04	0.74	0.52	1			6844.788	1258.016	9.96	1.23	0.86	3
7619.815	3908.962	6.16	0.81	0.54	1			6845.712	1258.186	9.86	1.22	0.92	2
7621.777	3909.969	6.17	0.81	0.54	1			6846.697	1258.367	9.38	0.93		4
7623.696	3910.954	6.13	0.81	0.54	1			6846.697	1258.565	9.52	1.08	0.76	2
7625.742	3912.003	6.13	0.78	0.58	1			6847.674	1258.546	9.51	1.08	0.75	3
7626.745	3912.517	5.85	0.70	0.50	1			6847.777	1258.565	9.52	1.08	0.75	4
7635.683	3917.103	6.06	0.77	0.50	1			6846.754	1258.377	9.34	0.95	0.61	3
7645.789	3922.287	5.79	0.65	0.45	1			6848.660	1258.727	9.72	1.20		4
7646.692	3922.751	6.03	0.83	0.53	1			6849.763	1258.930	9.87	1.31	0.98	2
7647.676	3923.255	5.82	0.82	0.43	1			6850.718	1259.473	9.40	1.00	0.72	2
7649.761	3924.325	5.79	0.65	0.42	1			6853.640	1259.643	9.67	1.12	0.83	2
7654.687	3926.852	6.13	0.80	0.54	1			6856.648	1260.196	9.89	1.20		2
7655.716	3927.380	5.80	0.66	0.50	1								
7656.652	3927.860	6.16	0.78	0.53	1								
7663.656	3931.453	5.82	0.64	0.50	1								

TABLE I (continued)

SW	CAS	CONT.				SY	CAS	CONT.				
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B
6857.649	1260.380	9.37	0.96		2		6852.745	1683.287	10.20	1.14	0.80	2
6858.727	1260.578	9.54	1.08		2		6853.739	1683.531	9.52	0.80	0.62	2
6866.611	1262.027	9.98	1.29		4		6856.661	1684.249	10.21	1.16		2
							6857.678	1684.499	9.66	0.88		2
							6858.739	1684.759	9.68	0.93		2
6867.615	1262.211	9.85	1.16		4		6866.746	1686.726	9.67	0.90		4
6869.602	1262.576	9.55	1.10		4		6876.786	1689.192	10.19	1.15		4
6876.636	1263.869	9.84	1.23		4		6879.720	1689.913	9.89	1.06		4
6879.600	1264.414	9.35	0.95		4		6880.710	1690.156	10.15	1.13		4
6880.611	1264.600	9.55	1.11		4		6942.616	1705.363	10.23	1.12		4
							6948.608	1705.834	9.81	1.00		4
6953.571	1278.009	9.96	1.29		4		6951.635	1707.578	9.43	0.79		4
6954.562	1278.191	9.91	1.20		4		6953.619	1708.065	10.09	1.11		4
6955.555	1278.374	9.36	0.96		4		6954.624	1708.312	10.24	1.13		4
6971.581	1281.319	9.45	1.00		4		6955.633	1708.560	9.48	0.79		4
	SY CAS						6955.583	1708.548	9.49	0.80		4
J.D.	CYCLES	V	B-V	U-B	RF		6971.614	1712.486	9.77	0.88		4
6766.955	1662.214	10.15	1.19	0.74	3		6975.595	1713.463	9.91	0.94		4
6768.918	1662.696	9.58	0.93		3		6978.590	1714.199	10.18	1.16		4
6772.982	1663.694	9.60	0.88	0.74	3		6979.598	1714.447	9.98	0.98		4
6784.975	1666.640	9.51	0.83	0.57	3		6980.593	1714.691	9.58	0.86		4
6787.976	1667.377	10.16	1.13	0.73	3		6982.598	1715.184	10.17	1.13		4
							6983.591	1715.428	10.07	1.03		4
6791.983	1668.362	10.21	1.08	0.75	3		7522.900	1847.902	9.91	1.03	0.72	1
6792.933	1668.595	9.46	0.79	0.60	3							
6793.950	1668.845	9.81	1.03	0.70	3							
6805.927	1671.787	9.73	0.96	0.64	3							
6806.892	1672.024	10.02	1.12	0.78	2							
	SZ CAS						J.D.	CYCLES	V	B-V	U-B	RF
6806.907	1672.027	10.03	1.12	0.84	3		6805.996	499.706	10.01	1.57	1.13	-3
6807.892	1672.269	10.22	1.17	0.86	2		6806.989	499.779	9.98	1.52	1.25	3
6808.809	1672.495	9.70	0.88	0.62	2		6807.992	499.853	9.92	1.51	1.12	3
6808.889	1672.514	9.57	0.87	0.57	3		6808.992	499.926	9.84	1.44	1.03	3
6809.741	1672.724	9.70	0.93	0.62	2		6809.984	499.999	9.67	1.43	0.94	3
6810.810	1672.986	10.00	1.10	0.79	2							
6811.829	1673.236	10.25	1.15	0.75	2		6810.991	500.073	9.61	1.37	0.93	3
6812.885	1673.496	9.67	0.89	0.62	3		6811.971	500.145	9.62	1.40	0.97	3
6812.949	1673.512	9.57	0.86	0.57	2		6812.943	500.216	9.70	1.44	1.06	3
6813.695	1673.695	9.62	0.88	0.65	2		6813.938	500.289	9.74	1.51	1.05	3
							6814.975	500.365	9.83	1.51	1.16	3
6813.877	1673.740	9.67	0.93	0.67	3							
6814.890	1673.988	9.97	1.13	0.73	3		6815.946	500.437	9.90	1.56	1.14	3
6815.825	1674.218	10.19	1.19	0.81	3		6816.825	500.501	9.97	1.63	1.17	2
6816.868	1674.474	9.82	0.92	0.65	3		6816.933	500.509	9.94	1.62	1.15	3
6817.785	1674.699	9.60	0.90	0.60	3		6817.851	500.576	10.01	1.60	1.19	2
							6817.897	500.580	9.98	1.59	1.24	3
6818.748	1674.936	9.92	1.07	0.75	3							
6827.689	1677.132	10.18	1.11		4		6818.831	500.648	10.02	1.60	1.16	2
6827.892	1677.182	10.18	1.15		4		6818.883	500.652	10.02	1.62	1.23	3
6830.878	1677.916	9.93	1.04		4		6819.806	500.720	10.02	1.57	1.12	2
6833.799	1678.633	9.49	0.83	0.64	2		6820.814	500.794	9.98	1.55	1.10	2
							6825.768	501.158	9.69	1.44		4
6837.698	1679.591	9.45	0.77		4							
6837.888	1679.637	9.51	0.83		4		6825.879	501.166	9.63	1.45		4
6844.842	1681.346	10.22	1.14	0.84	3		6827.780	501.305	9.81	1.53		4
6845.749	1681.568	9.39	0.80	0.61	2		6827.957	501.318	9.80	1.53		4
6845.812	1681.584	9.42	0.81	0.60	3		6830.945	501.538	9.99	1.61		4
							6832.892	501.681	10.03	1.56		4
6846.808	1681.829	9.79	1.01	0.73	3							
6846.844	1681.837	9.77	1.01	0.76	2		6833.872	501.753	9.96	1.56	1.14	2
6848.708	1682.295	10.21	1.15		4		6834.916	501.829	9.88	1.52	1.10	2
6848.814	1682.321	10.22	1.16	0.73	3		6836.883	501.974	9.70	1.40	1.12	2
6849.794	1682.562	9.44	0.81	0.61	3		6837.792	502.041	9.65	1.40		4

TABLE 1 (continued)

SZ	CAS	CONT.				TU	CAS	CONT.					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF		
6843.861	502.486	9.91	1.61		4	6783.981	3171.122	7.92	0.67	0.36	3		
						6783.991	3171.127	7.90	0.68	0.37	3		
6845.886	502.635	10.02	1.59	1.11	-3	6784.001	3171.131	7.91	0.65	0.29	3		
6847.784	502.774	9.97	1.56		4	6784.985	3171.591	7.67	0.58	0.35	3		
6847.911	502.784	9.97	1.51		4	6791.990	3174.866	7.95	0.74	0.45	3		
6849.784	502.921	9.81	1.46	1.08	2								
6849.907	502.930	9.81	1.44	0.95	3	6792.941	3175.310	7.12	0.34	0.34	3		
						6793.958	3175.786	7.96	0.74	0.43	3		
6852.774	503.141	9.61	1.42	1.00	2	6796.857	3177.141	8.02	0.74		2		
6853.795	503.216	9.68	1.47	1.10	2	6805.938	3181.386	7.58	0.53	0.35	3		
6856.731	503.431	9.89	1.57		2	6806.916	3181.843	7.87	0.72	0.43	3		
6857.697	503.502	9.95	1.60		2								
6858.796	503.583	9.97	1.59		2	6806.927	3181.848	7.89	0.69	0.41	2		
						6807.893	3182.299	7.24	0.36	0.32	3		
6866.829	504.173	9.64	1.42		4	6807.916	3182.310	7.12	0.37	0.31	2		
6867.812	504.245	9.71	1.46		4	6808.836	3182.740	7.94	0.73	0.44	2		
6869.876	504.396	9.84	1.56		4	6808.896	3182.768	7.95	0.76	0.47	3		
6876.872	504.910	9.82	1.47		4								
6879.842	505.128	9.56	1.39		4	6809.733	3183.159	7.83	0.63	0.33	2		
						6809.911	3183.243	7.53	0.50	0.34	3		
6880.816	505.199	9.66	1.44		4	6809.949	3183.260	7.50	0.46	0.35	2		
6942.647	509.739	10.00	1.55		4	6810.712	3183.617	7.75	0.59	0.36	2		
6953.656	510.547	9.96	1.62		4	6810.924	3183.716	7.81	0.67	0.39	3		
6954.651	510.621	10.01	1.59		4								
6955.642	510.693	10.02	1.57		4	6810.931	3183.719	7.82	0.67	0.40	2		
						6811.783	3184.118	8.01	0.66	0.44	2		
6971.634	511.867	9.91	1.50		4	6811.834	3184.142	8.01	0.70	0.40	2		
6972.630	511.941	9.80	1.46		4	6811.920	3184.182	7.98	0.70	0.42	3		
6978.612	512.380	9.82	1.56		4	6811.926	3184.185	7.95	0.68	0.41	2		
6979.617	512.454	9.89	1.59		4								
6981.610	512.600	10.00	1.61		4	6811.999	3184.219	7.87	0.65	0.36	2		
						6812.706	3184.549	7.53	0.53	0.33	2		
6982.624	512.674	9.98	1.57		4	6812.817	3184.601	7.62	0.57	0.38	2		
						6812.908	3184.644	7.68	0.63	0.39	2		
						6812.914	3184.646	7.71	0.61	0.40	3		
TU	CAS												
J.D.	CYCLES	V	B-V	U-B	RF			6813.884	3185.100	8.12	0.76	0.47	3
6742.901	3151.919	7.95	0.70		2			6814.896	3185.573	7.76	0.68	0.40	3
6745.943	3153.341	7.22	0.36		2			6815.873	3186.030	8.00	0.72	0.42	3
6746.883	3153.781	7.95	0.71		2			6816.876	3186.498	7.49	0.51	0.35	3
6751.960	3156.154	7.87	0.66	0.35	3			6817.803	3186.932	7.98	0.75	0.45	3
6757.902	3158.931	8.05	0.75		2			6818.760	3187.379	7.20	0.38	0.37	3
								6818.791	3187.394	7.27	0.39	0.37	3
								6819.798	3187.864	7.99	0.77	0.47	3
6758.884	3159.391	7.64	0.48		2			6845.760	3200.000	8.10	0.74	0.42	2
6759.932	3159.880	7.95	0.71		2			6845.818	3200.027	8.08	0.78	0.47	3
6760.932	3160.348	7.09	0.30		2								
6766.842	3163.110	8.13	0.75	0.46	3			6846.815	3200.493	7.68	0.62	0.37	3
6766.908	3163.141	8.03	0.71	0.42	3			6848.821	3201.431	7.28	0.43	0.32	3
								6849.822	3201.899	8.01	0.75	0.44	3
6766.947	3163.159	7.96	0.71	0.37	3			6853.746	3203.733	7.76	0.62	0.40	2
6768.826	3164.038	8.00	0.72	0.48	3			6856.666	3205.098	8.01	0.71		2
6768.906	3164.075	7.95	0.70	0.42	3								
6769.952	3164.564	7.52	0.49	0.41	3			6858.745	3206.070	8.00	0.69		2
6774.909	3166.881	7.87	0.71	0.38	3								
UZ	CAS												
J.D.	CYCLES	V	B-V	U-B	RF								
6783.835	3171.054	8.26	0.66	0.43	3								
6783.842	3171.057	8.06	0.73	0.41	3								
6783.846	3171.059	8.05	0.73	0.41	3								
6783.881	3171.075	8.03	0.70	0.43	3	6742.933	1583.049	11.61	1.18		2		
6783.890	3171.079	8.01	0.70	0.39	3	6746.931	1583.988	11.68	1.15		2		
						6757.921	1586.568	11.33	1.18		2		
6783.899	3171.084	8.00	0.72	0.39	3	6759.919	1587.037	11.68	1.08		2		
6783.910	3171.089	7.99	0.72	0.39	3	6796.889	1595.717	11.51	1.17		2		
6783.919	3171.093	7.96	0.68	0.42	3								
6783.930	3171.098	7.94	0.70	0.37	3	6809.810	1598.750	11.55	1.20	0.77	2		
6783.971	3171.117	7.93	0.67	0.37	3	6810.856	1598.996	11.66	1.16	0.74	2		

TABLE 1 (continued)

UZ	CAS	CONT.				VV	CAS	CONT.				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	
6811.863	1599.232	10.92	0.89	0.61	2	6815.938	1098.008	10.32	0.90	0.67	3	
6812.955	1599.488	11.21	1.12	0.68	2	6816.834	1098.152	10.49	1.03	0.70	2	
6813.937	1599.719	11.51	1.27	0.80	2	6816.927	1098.167	10.41	1.07	0.64	3	
6814.709	1599.900	11.70	1.27	0.89	2	6817.825	1098.312	10.70	1.17	0.79	2	
6815.883	1600.176	11.11	0.93	0.65	2	6818.815	1098.471	10.84	1.23	0.84	2	
6816.694	1600.366	11.13	1.02	0.61	2	6820.795	1098.790	11.18	1.31	0.94	2	
6817.770	1600.619	11.51	1.13	0.84	2	6827.762	1099.913	10.80	1.07		4	
6827.747	1602.961	11.71	1.30		4	6827.937	1099.941	10.60	1.05		4	
6827.931	1603.004	11.73	1.23		4	6830.930	1100.423	10.79	1.20		4	
6829.909	1603.469	11.28	1.10		4	6832.887	1100.738	11.16	1.32		4	
6830.904	1603.702	11.53	1.19		4	6833.854	1100.894	10.89	1.19	0.71	2	
6837.750	1605.310	11.01	0.91		4	6837.775	1101.526	10.93	1.28		4	
6843.818	1606.734	11.53	1.20		4	6843.836	1102.502	10.86	1.25		4	
6845.792	1607.198	10.94	0.86	0.73	2	6845.871	1102.830	11.13	1.26	0.94	-3	
6847.748	1607.657	11.46	1.18		4	6845.881	1102.831	11.08	1.27	0.90	2	
6848.749	1607.892	11.67	1.27		4	6846.875	1102.992	10.34	0.95	0.65	3	
6853.763	1609.069	11.56	1.19		2	6847.765	1103.135	10.41	1.00		4	
6856.697	1609.758	11.54	1.22		2	6847.899	1103.157	10.46	1.01		4	
6858.767	1610.244	11.01	0.81		2	6848.767	1103.296	10.69	1.18		4	
6866.762	1612.121	11.39	1.04		4	6848.880	1103.315	10.70	1.18	0.79	-3	
6867.773	1612.358	11.08	0.95		4	6849.850	1103.471	10.86	1.24	0.97	-3	
6869.819	1612.838	11.62	1.26		4	6853.784	1104.105	10.42	0.93	0.74	2	
6876.823	1614.483	11.27	1.10		4	6856.717	1104.577	11.00	1.28		2	
6879.765	1615.173	11.04	0.91		4	6858.791	1104.911	10.77	1.10		2	
6880.760	1615.407	11.16	1.01		4	6866.812	1106.203	10.54	1.08		4	
6942.635	1629.934	11.71	1.23		4	6867.799	1106.362	10.77	1.17		4	
6949.686	1631.589	11.42	1.18		4	6869.846	1106.692	11.10	1.34		4	
6953.634	1632.516	11.33	1.10		4	6876.864	1107.823	11.11	1.28		4	
6954.636	1632.751	11.61	1.20		4	6879.809	1108.297	10.65	1.16		4	
6977.609	1638.144	11.22	0.99		4	6880.805	1108.457	10.82	1.23		4	
6979.602	1638.612	11.45	1.14		4	6940.717	1118.109	10.37	1.01		4	
6981.593	1639.080	11.60	1.14		4	6949.697	1119.556	11.00	1.29		4	
6982.606	1639.318	11.02	0.94		4	6951.659	1119.872	11.00	1.19		4	
6983.614	1639.554	11.44	1.13		4	6971.630	1123.089	10.39	0.97		4	
7215.735	1694.050	11.67	1.21	0.80	1	6972.618	1123.248	10.61	1.13		4	
	VV CAS					6977.620	1124.054	10.28	0.94		4	
	J.D.	CYCLES	V	B-V	U-B	RF	6982.617	1124.859	11.02	1.21		4
6792.995	1094.312	10.72	1.20	0.85	-3	6983.630	1125.022	10.28	0.92		4	
6796.905	1094.942	10.63	1.09		2	7162.930	1153.906	10.84	1.17	0.68	1	
6797.956	1095.111	10.40	0.96		2	7206.888	1160.987	10.35	0.92	0.61	1	
6806.956	1096.561	11.01	1.30	0.92	2	7240.753	1166.443	10.83	1.26	0.80	1	
6806.980	1096.565	11.04	1.37	0.71	-3	7267.693	1170.783	11.18	1.35	0.92	1	
6807.958	1096.722	11.19	1.42	0.99	3	VW CAS						
6808.954	1096.883	10.96	1.16	0.91	3	J.D.	CYCLES	V	B-V	U-B	RF	
6809.826	1097.023	10.32	0.93	0.65	2	6746.923	1125.636	11.06	1.44		2	
6809.968	1097.046	10.28	0.96	0.66	3	6757.911	1127.470	10.92	1.36		2	
6810.880	1097.193	10.59	1.03	0.74	2	6759.933	1127.807	10.84	1.27		2	
6810.976	1097.208	10.56	1.10	0.80	3	6760.952	1127.977	10.40	1.04		2	
6811.892	1097.356	10.76	1.20	0.84	2	6792.956	1133.316	10.71	1.29	0.80	3	
6812.831	1097.507	10.89	1.28	0.82	2	6796.884	1133.972	10.42	1.06		2	
6813.758	1097.657	11.03	1.30	0.86	2	6806.963	1135.653	11.05	1.44	0.82	-3	
6813.923	1097.683	11.12	1.31	0.90	3	6807.940	1135.816	10.82	1.22	0.78	3	
6814.838	1097.831	11.11	1.28	0.82	2	6808.937	1135.983	10.40	1.08	0.77	3	
6814.944	1097.848	11.11	1.23	0.86	3	6809.784	1136.124	10.57	1.19	0.78	2	
6815.833	1097.991	10.35	0.94	0.69	2	6809.935	1136.149	10.58	1.16	0.85	3	

TABLE 1 (continued)

VW	CAS	CONT.				XY	CAS	CONT.				
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B
6810.847	1136.301	10.70	1.29	0.90	2		6813.738	1513.604	10.07	1.20	0.86	2
6811.855	1136.470	10.91	1.34	0.97	2		6815.803	1514.063	9.99	1.02	0.75	2
6811.940	1136.484	10.90	1.35	0.97	3		6815.889	1514.082	9.94	1.06	0.70	3
6814.719	1136.947	10.48	1.05	0.62	2		6816.770	1514.278	9.73	1.04	0.70	2
							6816.911	1514.309	9.76	1.08	0.74	3
6814.931	1136.983	10.36	1.07	0.72	3							
6815.898	1137.144	10.58	1.19	0.69	3		6825.703	1516.262	9.72	1.01		4
6817.868	1137.473	10.90	1.35	0.95	3		6827.731	1516.712	10.12	1.27		4
6818.806	1137.629	11.02	1.42	1.01	3		6827.910	1516.752	10.13	1.27		4
6819.832	1137.800	10.84	1.26	0.99	3		6829.897	1517.194	9.67	0.98		4
							6830.892	1517.415	9.87	1.14		4
6827.738	1139.119	10.51	1.18		4							
6827.915	1139.149	10.56	1.17		4		6832.861	1517.852	10.21	1.24		4
6829.901	1139.480	10.88	1.40		4		6836.741	1518.714	10.12	1.26	0.94	2
6830.895	1139.646	11.07	1.40		4		6837.711	1518.929	10.19	1.26		4
6837.745	1140.789	10.89	1.30		4		6843.811	1520.284	9.69	1.01		4
							6845.774	1520.720	10.07	1.30	0.94	2
6843.814	1141.801	10.84	1.25		4							
6844.855	1141.975	10.40	1.04	0.74	3		6846.822	1520.953	10.22	1.24	0.85	3
6845.783	1142.130	10.46	1.15	0.89	2		6847.742	1521.158	9.66	0.96		4
6847.745	1142.457	10.86	1.35		4		6848.724	1521.376	9.81	1.10		4
6848.745	1142.624	11.02	1.42		4		6848.834	1521.400	9.89	1.13	0.71	3
							6849.828	1521.621	10.08	1.22	0.85	3
6849.834	1142.806	10.84	1.25	0.89	3							
6853.768	1143.462	10.93	1.35		2		6853.756	1522.494	9.96	1.15	0.85	2
6856.781	1143.965	10.41	1.04		2		6856.775	1523.164	9.70	1.01		2
6858.773	1144.297	10.70	1.32		2		6858.759	1523.605	10.04	1.22		2
6867.766	1145.798	10.86	1.27		4		6867.737	1525.599	10.05	1.23		4
							6869.772	1526.051	9.95	1.12		4
6869.799	1146.137	10.54	1.19		4							
6876.815	1147.307	10.71	1.26		4		6876.808	1527.614	10.05	1.22		4
6879.670	1147.784	10.91	1.28		4		6879.760	1528.270	9.67	1.01		4
6879.825	1147.809	10.80	1.25		4		6880.722	1528.484	9.91	1.16		4
6880.753	1147.964	10.37	1.04		4		6941.608	1542.009	10.09	1.21		4
							6948.611	1543.565	10.02	1.19		4
6880.866	1147.983	10.39	1.05		4							
6940.642	1157.956	10.37	1.06		4		6953.632	1544.680	10.10	1.24		4
6943.578	1158.446	10.88	1.34		4		6954.633	1544.902	10.24	1.24		4
6951.639	1159.791	10.88	1.25		4		6955.627	1545.123	9.77	1.01		4
6953.589	1160.116	10.49	1.16		4		6972.604	1548.895	10.22	1.26		4
							6982.601	1551.115	9.76	0.99		4
6955.593	1160.450	10.89	1.36		4							
6978.596	1164.288	10.69	1.32		4		6983.604	1551.338	9.78	1.07		4
6980.600	1164.622	11.03	1.40		4							
6982.603	1164.957	10.37	1.04		4							
7184.858	1198.700	11.01	1.38	1.05	1							
XY CAS		AP CAS				J.D.	CYCLES	V	B-V	U-B	RF	
J.D.	CYCLES	V	B-V	U-B	RF		6830.887	997.647	11.87	1.59		4
6792.948	1508.986	10.17	1.22	0.72	3		6836.824	998.514	11.68	1.52	0.85	2
6796.877	1509.859	10.24	1.27		2		6837.704	998.642	11.85	1.57		4
6805.987	1511.882	10.24	1.31	0.82	3		6843.807	999.534	11.70	1.54		4
6806.954	1512.097	9.85	1.05	0.67	3		6845.767	999.820	11.67	1.43	0.64	2
6807.931	1512.314	9.78	1.06	0.75	3		6846.852	999.978	11.31	1.24	0.69	2
							6847.738	1000.108	11.34	1.33		4
6808.847	1512.518	9.99	1.19	0.86	2		6848.719	1000.251	11.47	1.43		4
6808.929	1512.536	10.02	1.23	0.82	3		6852.751	1000.840	11.57	1.36	0.67	2
6809.781	1512.725	10.18	1.26	0.92	2							
6809.928	1512.758	10.18	1.27	0.94	3		6853.749	1000.986	11.27	1.22	0.70	2
6810.816	1512.955	10.22	1.21	0.86	2		6856.671	1001.412	11.56	1.45		2
							6857.684	1001.560	11.74	1.45		2
6810.938	1512.982	10.21	1.20	0.83	3		6858.751	1001.716	11.84	1.42		2
6811.846	1513.184	9.68	0.96	0.69	2		6869.762	1003.324	11.49	1.44		4
6811.933	1513.203	9.66	0.97	0.68	3		6876.803	1004.353	11.54	1.44		4
6812.785	1513.392	9.86	1.10	0.78	2		6879.754	1004.784	11.72	1.52		4
6812.927	1513.424	9.92	1.13	0.78	3							

TABLE I (continued)

AP CAS						AY CAS					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6880.716	1004.924	11.41	1.28		4	7162.942	2494.610	11.73	1.10	1.26	1
6942.619	1013.965	11.32	1.27		4						
6953.624	1015.572	11.82	1.56		4						
							BP CAS				
6954.629	1015.719	11.92	1.56		4	J.D.	CYCLES	V	B-V	U-B	RF
6955.624	1015.865	11.57	1.39		4	6797.923	1083.818	10.70	1.43		2
6971.622	1018.201	11.47	1.41		4	6810.838	1085.877	10.79	1.51	1.04	2
6977.605	1019.075	11.27	1.30		4	6811.876	1086.043	10.94	1.60	1.19	2
6978.593	1019.219	11.46	1.45		4	6812.810	1086.191	11.18	1.65	1.14	2
						6813.748	1086.341	11.24	1.73	1.28	2
6980.596	1019.512	11.68	1.51		4						
6983.596	1019.950	11.35	1.30		4	6814.827	1086.513	11.07	1.60	1.05	2
7593.813	1109.072	11.31	1.28	0.86	1	6815.812	1086.670	10.56	1.34	0.99	2
7596.822	1109.511	11.68	1.50	1.09	1	6816.777	1086.824	10.72	1.48	1.03	2
7597.776	1109.650	11.80	1.50	1.23	1	6817.844	1086.994	10.89	1.54	1.09	2
						6818.759	1087.140	11.06	1.71	1.19	2
7600.737	1110.083	11.32	1.27	0.95	1						
7601.647	1110.216	11.50	1.35	1.07	1	6820.777	1087.462	11.25	1.64	1.16	2
7619.665	1112.847	11.55	1.39	1.00	1	6829.914	1088.918	10.90	1.57		4
7621.731	1113.149	11.39	1.35	1.01	1	6830.910	1089.077	11.00	1.59		4
7623.658	1113.430	11.60	1.48	1.24	1	6833.844	1089.545	10.93	1.45	1.02	2
						6834.905	1089.714	10.57	1.36	0.96	2
7625.689	1113.727	11.80	1.50	1.14	1						
7635.650	1115.182	11.46	1.41	1.02	1	6837.754	1090.168	11.15	1.68		4
7646.643	1116.787	11.65	1.54	1.08	1	6843.822	1091.136	11.07	1.66		4
7647.650	1116.934	11.34	1.27	0.87	1	6845.801	1091.451	11.27	1.60	1.16	2
7654.658	1117.958	11.32	1.23	0.72	1	6847.752	1091.762	10.63	1.40		4
						6848.753	1091.922	10.86	1.55		4
	AY CAS										
J.D.	CYCLES	V	B-V	U-B	RF	6869.825	1095.282	11.23	1.71		4
6829.924	2378.631	11.55	1.26		4	6876.831	1096.399	11.32	1.70		4
6830.924	2378.979	11.45	1.29		4	6879.796	1096.871	10.76	1.50		4
6832.878	2379.660	11.18	1.08		4	6880.769	1097.026	10.92	1.58		4
6837.764	2381.361	11.83	1.46		4	6940.705	1106.582	10.78	1.43		4
6837.933	2381.420	11.87	1.43		4						
						6941.614	1106.727	10.58	1.41		4
6843.829	2383.473	11.78	1.40		4	6951.645	1108.326	11.30	1.69		4
6847.759	2384.842	11.31	1.19		4	6953.639	1108.644	10.57	1.33		4
6847.891	2384.888	11.38	1.20		4	6971.626	1111.512	11.09	1.56		4
6848.759	2385.190	11.69	1.39		4	6972.608	1111.669	10.57	1.33		4
6866.785	2391.468	11.85	1.43		4						
						6977.616	1112.467	11.21	1.63		4
6867.785	2391.816	11.28	1.17		4	6978.602	1112.624	10.58	1.35		4
6869.831	2392.529	11.76	1.35		4	6979.606	1112.784	10.66	1.43		4
6876.853	2394.975	11.45	1.26		4	6983.616	1113.424	11.35	1.64		4
6879.676	2395.958	11.41	1.24		4						
6879.830	2396.011	11.46	1.29		4	BY CAS					
6880.775	2396.340	11.80	1.43		4	J.D.	CYCLES	V	B-V	U-B	RF
6940.708	2417.213	11.69	1.40		4	6792.964	2108.896	10.51	1.34	0.87	3
6948.616	2419.967	11.43	1.24		4	6793.952	2109.202	10.37	1.30	0.79	2
6951.654	2421.025	11.60	1.33		4	6796.895	2110.116	10.46	1.30		2
6953.646	2421.719	11.24	1.12		4	6797.934	2110.439	10.16	1.22		2
6954.642	2422.066	11.60	1.31		4	6806.901	2113.223	10.38	1.27	0.80	2
6955.631	2422.410	11.90	1.44		4						
6972.611	2428.324	11.80	1.41		4	6806.972	2113.245	10.35	1.29	0.84	3
6975.610	2429.368	11.82	1.45		4	6807.901	2113.533	10.19	1.23	0.80	2
6980.607	2431.108	11.64	1.37		4	6807.950	2113.548	10.19	1.22	0.78	3
						6808.861	2113.831	10.48	1.35	0.90	2
6982.612	2431.807	11.19	1.13		4	6808.946	2113.857	10.49	1.37	0.90	3

TABLE I (continued)

BY	CAS	CONT.				CD	CAS	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6809.817	2114.128	10.51	1.33	0.77	2	6786.918	869.968	11.06	1.68		3
6809.961	2114.173	10.41	1.28	0.86	3	6787.908	870.095	10.92	1.51	0.90	3
6810.862	2114.452	10.17	1.22	0.77	2	6791.910	870.608	10.65	1.51	1.17	-3
6810.968	2114.485	10.17	1.19	0.82	3	6793.884	870.861	11.13	1.59		3
6811.885	2114.770	10.47	1.31	0.82	2	6805.840	872.394	10.54	1.40	0.96	-3
6811.947	2114.789	10.42	1.35	0.81	3	6806.810	872.518	10.57	1.42	1.05	3
6812.799	2115.054	10.54	1.38	0.80	2	6810.857	873.037	11.07	1.62		3
6812.935	2115.096	10.53	1.33	0.92	3	6811.865	873.166	10.63	1.32	0.97	3
6813.916	2115.400	10.19	1.19	0.82	3	6812.859	873.293	10.40	1.26	0.87	3
6814.741	2115.657	10.32	1.23	0.78	2	6813.827	873.418	10.56	1.40	0.89	3
6814.937	2115.717	10.37	1.32	0.82	3	6819.782	874.181	10.55	1.33	1.02	3
6815.906	2116.018	10.56	1.38	0.94	3	6833.781	875.975	11.16	1.69		4
6816.919	2116.333	10.24	1.23	0.82	3	6837.665	876.473	10.59	1.43		4
6817.876	2116.630	10.27	1.26	0.82	3	6837.884	876.501	10.59	1.48		4
6818.813	2116.921	10.52	1.36	0.84	3	6843.722	877.250	10.37	1.25		4
6819.796	2117.226	10.37	1.30	0.74	2	6845.763	877.511	10.59	1.38	0.96	-3
6820.785	2117.533	10.20	1.23	0.74	2	6847.700	877.760	10.95	1.62		4
6833.851	2121.589	10.21	1.22	0.88	2	6848.688	877.886	11.11	1.67		4
6834.910	2121.918	10.48	1.38	0.89	2	6867.679	880.320	10.41	1.31		4
6837.772	2122.807	10.45	1.36		4	6869.647	880.573	10.58	1.44		4
6837.939	2122.858	10.50	1.39		4	6876.693	881.476	10.58	1.41		4
6843.833	2124.688	10.31	1.28		4	6879.636	881.853	11.02	1.64		4
6845.825	2125.307	10.25	1.22	0.77	3	6880.663	881.985	11.14	1.64		4
6845.871	2125.321	10.17	1.23	0.86	2	6940.616	889.670	10.83	1.58		4
6846.869	2125.631	10.28	1.23	0.81	3	6942.599	889.924	11.16	1.67		4
6847.761	2125.908	10.50	1.36		4	6943.586	890.050	11.07	1.57		4
6847.895	2125.949	10.53	1.36		4	6948.577	890.690	10.87	1.59		4
6848.763	2126.219	10.38	1.29		4	6951.604	891.078	10.94	1.56		4
6849.842	2126.554	10.20	1.21	0.82	3	6953.606	891.335	10.44	1.32		4
6853.778	2127.776	10.42	1.34	0.88	2	6954.580	891.460	10.60	1.42		4
6856.712	2128.687	10.32	1.33		2	6955.602	891.591	10.65	1.47		4
6858.784	2129.330	10.33	1.21		2	6975.585	894.152	10.78	1.37		4
6867.791	2132.126	10.48	1.31		4	6977.584	894.408	10.54	1.42		4
6869.838	2132.762	10.38	1.34		4	6979.584	894.665	10.84	1.54		4
6876.859	2134.941	10.51	1.36		4	6982.575	895.048	11.02	1.59		4
6879.802	2135.855	10.45	1.33		4	7159.925	917.781	10.94	1.66	1.33	1
6880.780	2136.159	10.44	1.29		4	7206.799	923.790	11.01	1.63	1.23	1
6940.714	2154.765	10.39	1.33		4	7220.764	925.580	10.69	0.84	0.28	1
6941.690	2155.068	10.55	1.37		4	7263.601	931.071	12.05	0.69	0.32	1
6941.578	2155.033	10.51	1.39		4	CF CAS					
6942.668	2155.372	10.23	1.22		4	J.D.	CYCLES	V	B-V	U-B	RF
6942.575	2155.343	10.24	1.24		4	5668.936	1162.806	11.20	1.30	0.96	20
6948.623	2157.221	10.37	1.28		4	5669.825	1162.989	11.31	1.35	0.93	20
6949.694	2157.553	10.19	1.22		4	5669.962	1163.017	11.34	1.33	0.90	20
6954.662	2159.095	10.53	1.35		4	5670.828	1163.194	11.22	1.24	0.82	20
6954.585	2159.071	10.53	1.35		4	5670.966	1163.223	11.13	1.19	0.75	20
6955.636	2159.398	10.20	1.23		4	5687.768	1166.669	11.06	1.25	0.92	20
6972.615	2164.669	10.28	1.28		4	5687.867	1166.689	11.10	1.26	0.91	20
6975.615	2165.600	10.22	1.25		4	5687.965	1166.709	11.10	1.27	0.90	20
6978.606	2166.529	10.14	1.21		4	5688.863	1166.894	11.25	1.32	0.93	20
6980.612	2167.152	10.47	1.32		4	5688.964	1166.914	11.29	1.30	0.97	20
6981.603	2167.459	10.18	1.21		4	5689.811	1167.088	11.39	1.32	0.92	20
6981.603	2167.459	10.18	1.21		3	5689.973	1167.121	11.39	1.32	0.95	20
6984.865	869.705	10.89	1.64		3	5690.855	1167.302	10.91	1.09	0.70	20
6984.865	869.705	10.89	1.64		3	5690.870	1167.305	10.90	1.09	0.68	20
6984.865	869.705	10.89	1.64		3	5690.974	1167.327	10.87	1.06	0.66	20

TABLE 1 (continued)

CF	CAS	CONT.						CG	CAS	CONT.					
J.D.	CYCLES	V	B-V	U-B	RF			J.D.	CYCLES	V	B-V	U-B	RF		
5691.779	1167.492	10.92	1.13	0.69	20			6983.582	1599.813	11.52	1.36			4	
5691.973	1167.532	10.99	1.16	0.77	20										
5752.723	1179.993	11.32	1.36	0.98	20										
5752.739	1179.996	11.34	1.34	0.97	20										
5752.967	1180.043	11.32	1.34	0.96	20										
5754.773	1180.413	10.84	1.07	0.70	20			6829.822	452.816	11.40	1.94			4	
6128.876	1257.149	11.32	1.33	0.87	20			6830.810	452.881	11.49	1.88			4	
6128.898	1257.153	11.32	1.28		20			6832.782	453.012	11.40	1.79			4	
6129.803	1257.339	10.87	1.03	0.69	20			6833.652	453.070	11.26	1.75			4	
6130.638	1257.510	10.93	1.13	0.76	20			6837.633	453.334	10.51	1.46			4	
6130.644	1257.511	10.95	1.13	0.73	20			6843.702	453.736	11.27	1.87			4	
6130.915	1257.567	11.00	1.18	0.77	20			6846.709	453.936	11.44	1.87			4	
6130.933	1257.571	11.01	1.16	0.82	20			6847.677	454.000	11.36	1.82			4	
6135.620	1258.532	10.94	1.16	0.79	20			6848.670	454.066	11.24	1.75			4	
7206.836	1478.259	11.03	1.14	0.72	1			6866.620	455.256	10.44	1.39			4	
7261.663	1489.505	10.92	1.18	0.76	1			6867.624	455.322	10.45	1.41			4	
	CG CAS							6869.613	455.454	10.77	1.61			4	
								6876.643	455.920	11.44	1.87			4	
								6879.615	456.117	11.14	1.66			4	
J.D.	CYCLES	V	B-V	U-B	RF			6880.616	456.184	11.01	1.61			4	
6784.923	1554.303	11.02	1.03	0.79	-3			6941.563	460.224	10.69	1.52			4	
6786.970	1554.772	11.45	1.40		3			6942.585	460.292	10.39	1.37			4	
6787.950	1554.997	11.67	1.38		3			6943.565	460.357	10.60	1.50			4	
6791.964	1555.916	11.58	1.44		3			6948.572	460.689	11.14	1.85			4	
6792.896	1556.130	11.74	1.38		3			6953.574	461.021	11.31	1.77			4	
6793.929	1556.367	10.90	1.03	0.79	3			6955.572	461.153	11.12	1.66			4	
6805.909	1559.111	11.74	1.46		3			6971.584	462.215	10.81	1.52			4	
6806.881	1559.334	10.93	0.99	0.75	3			6972.577	462.281	10.38	1.34			4	
6807.872	1559.561	11.21	1.18	0.77	3			6977.577	462.612	10.93	1.79			4	
6809.868	1560.018	11.70	1.39		3										
	CS CAS														
6810.881	1560.250	11.26	1.22	0.86	3			J.D.	CYCLES	V	B-V	U-B	RF		
6811.881	1560.479	11.03	1.14	0.65	3			6830.851	463.637	11.79	0.78			4	
6814.876	1561.165	11.65	1.44		3			6837.671	464.100	12.77	1.21			4	
6815.817	1561.381	10.91	1.08	0.63	3			6843.729	464.511	11.45	0.57			4	
6819.790	1562.291	11.08	1.07	0.67	3			6847.705	464.781	11.77	0.90			4	
6843.747	1567.779	11.50	1.38		4			6848.694	464.848	11.82	0.95			4	
6847.718	1568.689	11.38	1.30		4										
6848.741	1568.923	11.62	1.41		4										
6869.702	1573.725	11.43	1.31		4			6866.681	466.069	12.67	1.19			4	
6876.765	1575.343	10.90	1.02		4			6869.676	466.272	12.60	0.89			4	
								6876.745	466.752	11.78	0.90			4	
6880.686	1576.241	11.36	1.21		4			6879.664	466.950	12.08	1.04			4	
6940.629	1589.973	11.65	1.42		4			6880.670	467.018	12.41	1.13			4	
6941.597	1590.195	11.59	1.34		4			6941.589	471.153	12.90	1.12			4	
6942.612	1590.427	11.00	1.07		4			6942.603	471.222	12.75	0.97			4	
6943.598	1590.653	11.37	1.28		4			6948.584	471.628	11.78	0.83			4	
								6951.607	471.833	11.86	0.91			4	
6948.591	1591.797	11.52	1.38		4			6953.597	471.968	12.20	1.05			4	
6951.622	1592.491	11.08	1.15		4										
6953.612	1592.947	11.64	1.38		4										
6954.615	1593.177	11.66	1.34		4			6955.606	472.104	12.88	1.18			4	
6955.612	1593.405	10.97	1.07		4			6971.601	473.190	12.86	1.08			4	
								6975.588	473.461	11.73	0.64			4	
6971.610	1597.070	11.74	1.40		4			6977.586	473.596	11.71	0.71			4	
6972.590	1597.295	11.05	1.09		4			6978.577	473.663	11.84	0.83			4	
6977.598	1598.442	10.96	1.11		4										
6978.584	1598.668	11.36	1.32		4			6982.578	473.935	12.07	1.06			4	
6979.591	1598.898	11.59	1.40		4			7143.941	484.887	11.98	1.00	0.80	1		
								7147.944	485.159	12.87	1.16	0.68	1		
6980.588	1599.127	11.69	1.41		4			7159.899	485.970	12.19	1.05	0.92	1		
6982.591	1599.586	11.22	1.21		4			7178.932	487.262	12.60	0.91	0.32	1		

TABLE 1 (continued)

CS	CAS	CONT.				CS	CAS	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7191.888	488.142	12.86	1.13	0.82	1	6879.631	1214.543	11.85	1.53		4
7206.786	489.153	12.83	1.07	0.71	1	6880.639	1214.721	12.07	1.58		4
7217.738	489.896	12.00	1.02	0.85	1	6942.595	1225.658	12.03	1.60		4
7220.747	490.100	12.80	1.19	1.00	1	6943.582	1225.833	12.09	1.54		4
7221.792	490.171	12.85	1.10	0.57	1	6951.599	1227.248	11.51	1.37		4
7261.651	492.877	11.93	0.97	0.77	1	6953.584	1227.598	11.93	1.58		4
7263.636	493.011	12.37	1.13	1.11	1	6954.609	1227.779	12.11	1.59		4
7267.637	493.283	12.42	0.78	0.21	1	6955.599	1227.954	11.67	1.36		4
						6975.582	1231.482	11.91	1.50		4
						6980.579	1232.364	11.68	1.45		4
CY	CAS	V	B-V	U-B	RF	DD	CAS	V	B-V	U-B	RF
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6829.828	475.076	11.38	1.66		4	6774.970	690.505	9.64	1.08	0.75	3
6830.814	475.144	11.48	1.74		4	6784.914	691.518	9.64	1.08	0.75	3
6832.792	475.282	11.72	1.82		4	6786.959	691.727	9.71	1.20	0.92	3
6833.659	475.342	11.85	1.86		4	6787.940	691.827	9.87	1.30	1.10	3
6837.645	475.619	12.22	1.93		4	6791.930	692.233	10.00	1.28	0.97	3
6837.865	475.635	12.19	1.94		4	6792.886	692.331	9.90	1.19	0.78	3
6843.706	476.041	11.31	1.59		4	6793.900	692.434	9.77	1.16	0.79	3
6846.713	476.250	11.61	1.83		4	6805.899	693.657	9.64	1.14	0.82	3
6847.686	476.318	11.73	1.89		4	6807.861	693.857	9.92	1.35	1.02	3
6848.673	476.386	11.87	1.94		4	6808.872	693.960	10.08	1.40	1.17	3
6866.629	477.635	12.15	1.91		4	6809.858	694.061	10.17	1.41	1.15	3
6867.630	477.705	11.97	1.83		4	6810.873	694.164	10.12	1.39	1.03	3
6869.619	477.843	11.47	1.51		4	6814.868	694.571	9.57	1.08	0.77	3
6876.648	478.332	11.78	1.87		4	6844.824	697.624	9.63	1.14	0.77	3
6879.621	478.539	12.14	1.98		4	6847.711	697.919	10.00	1.39		4
6880.622	478.609	12.16	1.96		4	6848.737	698.023	10.11	1.44		4
6940.610	482.781	11.94	1.73		4	6849.771	698.128	10.18	1.35	1.01	3
6941.567	482.848	11.36	1.53		4	6866.717	699.856	9.90	1.32		4
6942.588	482.919	11.07	1.40		4	6867.699	699.956	10.04	1.40		4
6943.572	482.987	11.24	1.49		4	6869.689	700.159	10.12	1.35		4
6953.580	483.684	12.03	1.83		4	6876.755	700.879	9.91	1.32		4
6954.566	483.752	11.93	1.74		4	6879.687	701.178	10.06	1.32		4
6955.575	483.822	11.80	1.65		4	6880.681	701.279	9.90	1.22		4
6971.587	484.936	11.14	1.42		4	6940.624	707.388	9.78	1.17		4
6972.580	485.005	11.25	1.53		4	6941.594	707.487	9.69	1.11		4
6978.574	485.422	11.92	2.02		4	6942.609	707.591	9.60	1.08		4
6979.573	485.492	12.07	2.02		4	6943.596	707.691	9.69	1.17		4
6980.571	485.561	12.14	1.99		4	6951.612	708.508	9.63	1.07		4
7273.594	505.943	11.18	1.45	1.02	1	6953.609	708.712	9.68	1.17		4
CZ	CAS	V	B-V	U-B	RF	6954.612	708.814	9.84	1.28		4
J.D.	CYCLES	V	B-V	U-B	RF	6971.607	710.546	9.60	1.05		4
6829.863	1205.757	12.12	1.60		4	6972.587	710.646	9.64	1.12		4
6830.836	1205.928	11.84	1.38		4	6977.594	711.156	10.11	1.32		4
6832.828	1206.280	11.66	1.37		4	6979.588	711.359	9.83	1.13		4
6833.774	1206.447	11.81	1.50		4	6980.585	711.461	9.72	1.12		4
6837.655	1207.132	11.38	1.27		4	6982.587	711.665	9.63	1.13		4
6837.879	1207.172	11.44	1.36		4	6983.575	711.766	9.76	1.24		4
6843.715	1208.202	11.49	1.29		4	6837.814	1784.217	10.71	1.15		4
6846.727	1208.734	12.08	1.60		4						
6847.696	1208.905	11.87	1.47		4						
6848.684	1209.079	11.30	1.22		4						
DF	CAS	V	B-V	U-B	RF						
6867.651	1212.428	11.75	1.52		4						
6869.638	1212.779	12.12	1.60		4						
6876.663	1214.019	11.36	1.22		4						

TABLE 1 (continued)

DF	CAS	CONT.				DL	CAS	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6837.948	1784.252	10.77	1.17		4	6769.972	846.215	9.20	1.27	0.83	3
6847.798	1786.822	11.06	1.24		4	6805.968	850.714	8.84	1.17	0.86	3
6847.925	1786.855	10.99	1.18		4	6806.944	850.836	8.99	1.26	0.90	3
6867.865	1792.058	10.56	1.00		4	6807.899	850.956	9.10	1.32	0.96	3
6869.903	1792.590	11.05	1.29		4	6809.919	851.208	9.18	1.29	0.89	3
6876.889	1794.413	10.93	1.23		4	6810.930	851.334	8.92	1.13	0.77	3
6879.866	1795.189	10.66	1.10		4	6811.926	851.459	8.68	1.08	0.71	3
6880.836	1795.443	10.96	1.25		4	6812.919	851.583	8.81	1.15	0.77	3
6940.743	1811.074	10.55	1.02		4	6813.910	851.707	8.84	1.19	0.86	3
6941.661	1811.314	10.86	1.22		4	6814.924	851.834	8.97	1.28	0.86	3
6942.580	1811.554	11.05	1.27		4	6815.880	851.953	9.11	1.34	0.94	3
6948.644	1813.136	10.65	1.08		4	6816.904	852.081	9.24	1.35	0.98	3
6951.685	1813.929	10.73	1.10		4	6817.809	852.194	9.20	1.32	0.92	3
6953.670	1814.447	10.96	1.26		4	6818.798	852.318	8.93	1.17	0.81	3
6954.667	1814.708	11.13	1.27		4	6819.826	852.446	8.66	1.07	0.73	3
6954.592	1814.688	11.11	1.30		4	6844.848	855.574	8.78	1.13	0.76	3
6972.648	1819.399	10.93	1.26		4	6848.828	856.071	9.23	1.37	1.01	3
6975.632	1820.178	10.68	1.11		4	7162.907	895.330	8.92	1.19	0.74	1
6977.645	1820.703	11.10	1.28		4	7206.876	900.826	8.99	1.27	0.88	1
6978.633	1820.961	10.64	1.03		4	7261.693	907.678	8.80	1.20	0.78	1
6978.658	1820.968	10.67	1.03		4	7263.667	907.924	9.13	1.29	0.97	1
6980.631	1821.482	10.99	1.28		4	DT CAS					
6981.630	1821.743	11.14	1.27		4	J.D.	CYCLES	V	B-V	U-B	RF
6982.638	1822.006	10.54	0.96		4	7217.706	1506.727	12.64	1.51	1.07	1
7601.704	1983.541	11.08	1.27	0.96	1	7220.719	1507.356	13.28	1.77	1.38	1
7621.761	1988.775	11.11	1.28	0.99	1	7221.727	1507.567	13.29	1.71		1
7626.738	1990.074	10.53	1.03	0.70	1	DW CAS					
7635.677	1992.406	10.96	1.27	0.94	1	J.D.	CYCLES	V	B-V	U-B	RF
7645.782	1995.043	10.53	0.99	0.69	1	6791.901	1358.978	11.03	1.39		3
7655.710	1997.633	11.11	1.25	1.13	1	6792.868	1359.172	11.21	1.56		3
7658.696	1998.413	10.86	1.23	0.84	1	6793.877	1359.374	11.33	1.56		3
DL CAS						6805.828	1361.765	10.80	1.31	0.79	3
J.D.	CYCLES	V	B-V	U-B	RF	6809.821	1362.564	11.21	1.49	0.82	3
6108.833	763.576	8.78	1.14	0.77	12	6812.830	1363.166	11.25	1.55		3
6121.613	765.173	9.21	1.32	0.93	12	6813.800	1363.360	11.37	1.54		3
6121.014	765.098	9.24	1.37	0.98	12	6814.813	1363.563	11.25	1.43	0.88	3
6121.954	765.216	9.15	1.28	0.85	12	6815.802	1363.761	10.84	1.30	0.83	3
6121.960	765.216	9.14	1.29	0.84	12	6816.825	1363.965	11.01	1.50	0.74	3
6128.643	766.052	9.19	1.36	0.96	12	6829.850	1366.571	11.26	1.49		4
6129.790	766.195	9.20	1.29	0.89	12	6830.831	1366.768	10.84	1.29		4
6130.624	766.299	8.96	1.17	0.79	12	6832.822	1367.166	11.29	1.53		4
6130.901	766.334	8.89	1.13	0.73	12	6833.673	1367.336	11.37	1.57		4
6135.605	766.922	9.04	1.30	0.93	12	6837.652	1368.132	11.20	1.59		4
6219.628	777.424	8.68	1.04	0.72	12	6837.875	1368.177	11.26	1.59		4
6220.631	777.550	8.78	1.11	0.71	12	6843.712	1369.345	11.36	1.57		4
6221.627	777.674	8.78	1.20	0.80	12	6846.722	1369.947	11.00	1.44		4
6221.756	777.690	8.82	1.19	0.85	12	6848.680	1370.339	11.33	1.62		4
6222.614	777.798	8.91	1.24	0.84	12	6866.665	1373.938	11.00	1.44		4
6223.623	777.924	9.05	1.29	0.94	12	6867.642	1374.133	11.17	1.55		4
6226.625	778.299	8.96	1.18	0.75	12	6869.631	1374.531	11.35	1.53		4
6227.620	778.423	8.68	1.04	0.70	12	6876.659	1375.937	11.01	1.43		4
6484.738	810.562	8.78	1.11	0.78	17	6879.606	1376.527	11.33	1.53		4
6751.969	843.965	9.16	1.29	1.08	3						
6766.863	845.826	8.97	1.25	0.87	3						
6768.890	846.080	9.23	1.40	1.05	3						

TABLE 1 (continued)

DW	CAS	CONT.				FM	CAS	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	
6879.775	1376.561	11.22	1.49			4	6979.595	1201.411	8.85	0.86		4	
6880.634	1376.733	10.79	1.29			4	6983.588	1202.098	9.40	1.16		4	
6943.575	1389.326	11.35	1.57			4	7142.960	1229.531	8.98	0.99	0.61	1	
6954.577	1391.528	11.33	1.54			4	7159.967	1232.458	8.89	0.92	0.57	1	
6955.580	1391.728	10.82	1.30			4	7160.867	1232.613	9.08	1.04	0.66	1	
7159.912	1432.613	11.06	1.43	0.91	1		7162.899	1232.963	9.33	1.18	0.84	1	
7160.813	1432.793	10.88	1.33	0.90	1		7206.862	1240.531	8.96	0.96	0.62	1	
							7240.741	1246.362	8.83	0.89	0.51	1	
							7261.672	1249.965	9.34	1.17	0.82	1	
FM CAS		J.D.	CYCLES	V	B-V	U-B	RF	7263.646	1250.305	8.91	0.91	0.54	1
								7267.645	1250.993	9.35	1.16	0.87	1
6751.951	1162.226	9.15	0.94	0.73	3		7522.885	1294.928	9.31	1.14	0.84	1	
6766.851	1164.791	9.16	1.14	0.79	3								
6768.811	1165.128	9.42	1.16	0.87	3								
6769.941	1165.323	8.88	0.85	0.58	3								
6772.974	1165.845	9.24	1.12	0.75	3								
J.D. CAS		J.D.	CYCLES	V	B-V	U-B	RF						
6773.969	1166.016	9.38	1.20	0.88	3		6784.936	742.635	11.18	0.57	0.54	3	
6784.943	1167.905	9.28	1.14	0.84	3		6786.979	742.859	11.44	0.75	0.39	-3	
6786.987	1168.257	9.06	0.96	0.58	3		6787.969	742.967	11.66	0.87		3	
6787.959	1168.424	8.86	0.88	0.63	3		6791.974	743.405	11.44	0.55	0.33	3	
6793.944	1169.454	8.89	0.91	0.59	3		6792.906	743.507	11.26	0.57	0.35	3	
6805.919	1171.515	8.96	0.93	0.67	3		6793.937	743.620	11.27	0.58	0.35	3	
6806.900	1171.684	9.11	1.07	0.76	3		6806.892	745.038	11.68	0.89	0.51	3	
6808.881	1172.025	9.40	1.16	0.86	3		6807.883	745.147	11.68	0.81	0.63	3	
6809.904	1172.201	9.22	1.04	0.66	3		6809.880	745.365	11.51	0.56	0.47	3	
6810.918	1172.376	8.86	0.88	0.56	3		6810.911	745.478	11.30	0.58	0.34	3	
6811.896	1172.544	8.99	0.99	0.64	3		6811.890	745.585	11.25	0.53	0.44	3	
6814.883	1173.058	9.41	1.19	0.83	3		6812.877	745.693	11.34	0.65	0.47	3	
6816.861	1173.399	8.88	0.89	0.58	3		6813.870	745.802	11.45	0.69	0.50	3	
6818.740	1173.722	9.13	1.09	0.79	3		6816.835	746.126	11.74	0.83	0.50	3	
6825.687	1174.918	9.31	1.16		4		6830.872	747.663	11.18	0.55		4	
6825.864	1174.949	9.30	1.15		4		6832.854	747.880	11.48	0.72		4	
6826.876	1175.123	9.39	1.13		4		6833.809	747.984	11.60	0.77		4	
6827.684	1175.262	9.04	0.98		4		6837.682	748.408	11.39	0.57		4	
6827.887	1175.297	8.93	0.90		4		6843.753	749.073	11.66	0.81		4	
6829.878	1175.640	9.08	1.05		4		6847.723	749.507	11.22	0.52		4	
6830.875	1175.811	9.21	1.11		4		6849.778	749.732	11.38	0.62	0.38	3	
6833.813	1176.317	8.89	0.88		4		6866.725	751.587	11.27	0.56		4	
6837.690	1176.984	9.36	1.16		4		6867.935	751.720	11.35	0.65		4	
6843.761	1178.029	9.39	1.20		4		6869.744	751.918	11.58	0.78		4	
6844.831	1178.213	9.18	1.01	0.69	3		6876.776	752.687	11.29	0.59		4	
6845.804	1178.381	8.83	0.85	0.59	3		6879.708	753.008	11.66	0.84		4	
6846.801	1178.553	8.99	1.02	0.63	3		6941.603	759.783	11.32	0.64		4	
6847.728	1178.712	9.13	1.07		4		6948.597	760.548	11.22	0.56		4	
6848.706	1178.881	9.26	1.15		4		6951.627	760.880	11.45	0.71		4	
6848.809	1178.898	9.31	1.14	0.83	3		6953.616	761.098	11.71	0.76		4	
6849.786	1179.066	9.42	1.17	0.83	3		6954.619	761.207	11.72	0.69		4	
6866.737	1181.984	9.36	1.17		4		6955.615	761.316	11.58	0.63		4	
6867.717	1182.153	9.34	1.11		4		6972.592	763.175	11.70	0.72		4	
6869.749	1182.503	8.91	0.96		4		6978.586	763.831	11.44	0.73		4	
6876.780	1183.713	9.12	1.07		4		6982.592	764.269	11.59	0.65		4	
6879.714	1184.218	9.13	1.00		4		6983.585	764.378	11.45	0.56		4	
6880.703	1184.388	8.82	0.85		4		7159.935	783.680	11.19	0.56	0.36	1	
6948.603	1196.076	9.40	1.17		4		7162.885	784.003	11.12	1.07	0.81	1	
6951.631	1196.597	9.05	0.99		4		7191.894	787.178	11.68	0.77	0.50	1	
6954.622	1197.112	9.41	1.13		4		7206.811	788.811	11.14	1.07	0.79	1	
6977.602	1201.068	9.36	1.15		4		7220.755	790.337	11.65	0.66	0.42	1	

TABLE 1 (continued)

IX	CAS	CONT.				TX	CEN	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7261.633	794.811	11.12	1.15	0.83	1		5241.498	306.635	10.35	1.73	1.36	-5	
7263.615	795.028	11.21	1.06	0.85	1		5242.510	306.694	10.44	1.76	1.48	-5	
							5243.547	306.755	10.55	1.84	1.59	-5	
		V	CEN				5244.507	306.811	10.68	1.89	1.49	-5	
J.D.	CYCLES	V	B-V	U-B	RF		5245.495	306.869	10.78	1.91	1.69	-5	
							5246.502	306.928	10.91	1.95	1.45	-5	
4513.442	821.527	6.66	0.82		7		5250.523	307.163	10.95	1.91	1.37	-5	
4519.457	822.621	6.80	0.89		7		5251.485	307.219	10.86	1.91		7	
4529.470	824.444	6.50	0.70		7		5256.475	307.511	10.12	1.50	1.19	-5	
4578.300	833.332	6.48	0.66		7								
4847.437	882.320	6.49	0.71		-7		5257.432	307.567	10.20	1.67	1.18	-5	
							5270.402	308.326	10.61	1.61	1.27	-5	
4869.497	886.335	6.48	0.68		7		5273.306	308.496	10.09	1.52	1.16	6	
4886.528	889.435	6.57	0.67		7		5274.308	308.555	10.22	1.61	1.27	6	
5161.559	939.495	6.57	0.80	0.50	5		5275.334	308.615	10.27	1.70	1.41	6	
5163.606	939.868	7.00	1.03	0.75	5			5276.320	308.672	10.38	1.75	1.50	6
5166.612	940.415	6.43	0.73	0.47	5			5281.402	308.970	11.01	2.07		7
5167.640	940.602	6.70	0.91	0.61	5			5285.340	309.200	10.91	1.93		7
5176.577	942.229	6.87	0.88	0.58	5			5286.325	309.258	10.80	1.84		7
5177.569	942.409	6.44	0.72	0.44	5			5308.347	310.546	10.18	1.63		7
5184.578	943.685	6.83	0.96	0.67	5								
5185.645	943.879	7.01	1.04	0.74	5		5358.228	313.464	10.07	1.51		7	
5186.586	944.051	7.17	1.09	0.81	5								
5188.553	944.409	6.43	0.72	0.43	5								
5195.590	945.690	6.80	0.95	0.67	5								
5201.535	946.772	6.90	1.00	0.70	5								
5204.578	947.326	6.44	0.69	0.41	5								
5205.551	947.503	6.58	0.81	0.51	5								
5208.590	948.056	7.17	1.08	0.80	5								
5236.488	953.134	7.17	1.04	0.75	5								
5238.521	953.504	6.58	0.81	0.52	5								
5241.494	954.045	7.17	1.07	0.78	5								
5243.543	954.418	6.45	0.73	0.44	5								
5245.499	954.774	6.91	1.00	0.72	5								
5246.494	954.955	7.10	1.06	0.77	5								
5281.360	961.301	6.52	0.72		7								
5286.315	962.203	7.03	0.94		7								
5302.252	965.104	7.24	1.11		7								
		TX	CEN										
J.D.	CYCLES	V	B-V	U-B	RF		5246.402	1573.427	8.99	0.88	0.61	5	
							5256.410	1576.428	8.89	0.88	0.58	5	
4562.327	266.903	10.90	2.05		7		5257.369	1576.716	8.85	0.80	0.50	5	
4564.349	267.021	11.12	2.09		-7		5292.314	1587.196	8.85	0.89	0.62	5	
4568.305	267.252	10.73	1.85		7		5304.222	1590.767	8.63	0.71	0.39	6	
4569.379	267.315	10.63	1.72		7								
4570.361	267.373	9.91	1.40		7								
4572.336	267.488	10.11	1.56		7								
4929.414	288.378	9.94	1.41		7								
4930.358	288.433	10.00	1.50		7								
5163.612	302.079	11.09	2.04		5								
5165.579	302.194	10.92	1.76	1.35	-5								
5166.586	302.253	10.73	1.70	1.45	-5								
5167.571	302.310	10.73	1.68	1.18	-5								
5184.559	303.304	10.69	1.61	1.14	-5								
5185.653	303.368	9.94	1.36	1.02	5								
5186.590	303.423	9.94	1.45	1.03	5								
		VW	CEN										
J.D.	CYCLES	V	B-V	U-B	RF		4561.346	303.358	10.65	1.67		7	
5195.595	303.950	10.93	1.96	1.26	-5								

TABLE 1 (continued)

VW	CEN	CONT.				XX	CEN	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4563.398	303.495	10.54	1.50		7	5236.472	477.949	7.98	1.06	0.76	5
4567.318	303.755	9.79	1.12		7	5238.505	478.135	7.65	0.89	0.58	5
4570.319	303.955	10.13	1.45		7	5241.479	478.406	7.68	1.01	0.73	5
4580.313	304.620	10.18	1.25		7	5243.525	478.593	7.98	1.19	0.92	5
4867.472	323.717	9.74	1.08		7	5246.477	478.862	8.17	1.16	0.89	5
4869.485	323.851	9.99	1.30		7	5257.415	479.861	8.15	1.16	0.86	5
4898.442	325.777	9.94	1.27		7	5282.336	482.135	7.68	0.88		7
5163.551	343.408	10.61	1.56	1.18	-5	5310.229	484.681	8.21	1.22	0.84	6
5165.560	343.542	10.43	1.30	1.02	-5	5349.230	488.241	7.35	0.75		7
5166.554	343.608	10.23	1.28	0.97	-5	5359.224	489.153	7.60	0.85		7
5167.544	343.674	9.69	0.98	0.70	5	5567.541	508.167	7.56	0.82		7
5184.535	344.804	9.84	1.18	0.93	5	5621.416	513.084	7.76	0.94		-7
5185.615	344.876	9.98	1.33	1.12	-5	5643.282	515.080	7.76	0.90		7
5186.555	344.938	10.09	1.40	1.15	-5	5644.227	515.166	7.52	0.83		7
5188.520	345.069	10.25	1.47	1.24	-5	AY CEN					
5189.583	345.140	10.68	1.65	1.18	-5	J.D.	CYCLES	V	B-V	U-B	RF
5195.559	345.537	10.34	1.36	1.07	-5	5217.431	346.992	10.21	1.45	1.28	6
5241.463	348.590	10.30	1.36	1.04	-5	5242.498	348.659	9.71	1.06	0.74	5
5242.498	348.659	9.71	1.06	0.74	5	4520.390	851.338	8.73	0.99		7
5243.514	348.727	9.75	1.07	0.75	5	4546.307	856.219	8.60	0.88		7
5244.496	348.792	9.81	1.12	0.91	5	4580.247	862.611	9.06	1.08		-7
5245.482	348.857	9.88	1.29	0.98	5	4588.251	864.118	8.58	0.87		7
5246.467	348.923	9.98	1.36	1.11	-5	4834.456	910.487	8.85	1.07		-7
5250.512	349.192	10.49	1.62	1.25	-5	4865.478	916.329	8.73	0.98		7
5256.461	349.588	10.30	1.34	0.99	-5	4917.384	926.105	8.62	0.87		7
5257.410	349.651	9.76	1.07	0.74	5	5163.498	972.456	8.82	1.07	0.80	5
5273.290	350.707	9.71	1.07	0.79	6	5166.473	973.016	8.72	0.96	0.65	5
5302.242	352.632	10.04	1.18		7	5167.518	973.213	8.58	0.92	0.63	5
5303.302	352.703	9.78	1.09		-7	5188.437	977.153	8.51	0.88	0.58	5
5311.220	353.229	10.58	1.62	1.48	6	5189.512	977.355	8.77	1.02	0.76	5
XX CEN						5224.494	983.944	8.97	1.06		7
						5243.383	987.501	8.87	1.09	0.83	5
						5244.444	987.701	9.01	1.14	0.91	5
J.D.	CYCLES	V	B-V	U-B	RF	AZ CEN					
4517.476	412.324	7.58	0.90		7	5245.417	987.884	9.06	1.09	0.81	5
4529.460	413.418	7.68	0.98		7	5246.382	988.066	8.62	0.90	0.60	5
4847.426	442.440	7.73	1.06		-7	5306.211	999.334	8.70	1.01	0.68	6
4889.440	446.274	7.42	0.79		7	5309.220	999.900	9.05	1.12	0.82	6
4898.424	447.094	7.46	0.80		-7	5309.240	999.904	9.09	1.13		7
4901.603	447.385	7.63	1.00		7	J.D.					
4922.364	449.279	7.46	0.77		7	4521.337	1407.350	8.80	0.72		7
4922.446	449.287	7.45	0.82		7	4533.387	1411.101	8.59	0.66		7
5161.535	471.109	7.69	0.90	0.61	5	4578.272	1425.072	8.61	0.69		7
5163.586	471.297	7.51	0.86	0.57	5	4835.522	1505.146	8.63	0.67		7
5176.562	472.481	7.76	1.07	0.83	5	4890.429	1522.237	8.72	0.77		7
5177.548	472.571	7.93	1.14	0.94	5	4925.299					
5179.554	472.754	8.22	1.23	0.95	5	5161.492	1533.091	8.64	0.71		7
5184.565	473.211	7.31	0.76	0.48	5	5169.476	1606.610	8.65	0.72	0.45	5
5185.629	473.309	7.51	0.90	0.60	5	5176.467	1609.095	8.56	0.70	0.46	5
5186.567	473.394	7.66	0.99	0.70	5	5177.465	1611.271	8.70	0.78	0.51	5
5188.536	473.574	7.95	1.15	0.90	5	5179.468	1612.206	8.69	0.75	0.48	5
5195.571	474.216	7.31	0.75	0.46	5	5188.545	1615.031	8.56	0.63		7
5201.517	474.759	8.23	1.24	0.98	5	5194.566	1616.905	8.50	0.61		7
5204.567	475.037	7.76	0.94	0.65	5	5201.438	1619.044	8.52	0.68	0.43	5
5205.534	475.125	7.66	0.89	0.60	5						
5208.576	475.403	7.68	0.99	0.71	5						

TABLE 1 (continued)

AZ CEN		CONT.				KK CEN		CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5208.494	1621.240	8.65	0.78	0.52	5	4865.497	399.456	11.02	1.06		7
						4890.440	401.504	10.92	1.12		7
5223.462	1625.899	8.47	0.60		7	5194.580	426.474	11.00	1.04		7
5236.375	1629.919	8.50	0.58	0.31	5						
5238.425	1630.557	8.74	0.72	0.45	5	5223.488	428.847	11.61	1.49		7
5243.387	1632.101	8.55	0.71	0.45	5	5251.409	431.140	11.91	1.52		7
5246.391	1633.037	8.52	0.67	0.41	5	5281.314	433.595	11.16	1.21		7
						5286.260	434.001	11.91	1.60		7
5250.424	1634.292	8.70	0.78	0.52	5	5303.262	435.397	11.42	1.29		7
5256.397	1636.151	8.59	0.74	0.47	5						
5292.309	1647.329	8.74	0.79	0.52	5						
5306.215	1651.658	8.63	0.70	0.38	6	KN CEN					
5573.542	1734.868	8.48	0.62		7	J.D.	CYCLES	V	B-V	U-B	RF
5608.389	1745.715	8.57	0.64		7	4561.366	134.083	10.27	1.80		7
5611.430	1746.662	8.67	0.67		7	4567.331	134.258	10.00	1.60		7
5630.322	1752.542	8.77	0.76		-7	4569.341	134.317	9.44	1.40		7
						4573.347	134.435	9.50	1.48		7
						4947.260	145.426	9.41	1.46		7
BB CEN											
J.D.	CYCLES	V	B-V	U-B	RF	5163.565	151.785	10.00	1.68	1.28	-5
4513.403	1129.096	10.06	0.95		7	5165.565	151.844	10.06	1.71	1.20	-5
4517.436	1130.105	10.01	0.92		7	5166.560	151.873	10.11	1.78	1.37	-5
4521.363	1131.087	10.07	0.93		7	5167.555	151.902	10.15	1.73	1.28	-5
4530.420	1133.353	9.89	0.90		7	5184.546	152.402	9.31	1.38	1.01	5
4885.436	1222.166	9.98	0.91		7						
						5185.620	152.433	9.38	1.43	1.05	5
5166.501	1292.478	10.10	0.96	0.67	5	5186.562	152.461	9.43	1.48	1.11	5
5186.525	1297.488	10.08	0.98	0.66	5	5188.526	152.519	9.54	1.55	1.18	5
5188.480	1297.977	10.33	0.95	0.69	5	5189.588	152.550	9.80	1.61	1.10	5
5189.549	1298.244	9.93	0.87	0.54	5	5195.568	152.726	9.87	1.71	1.21	-5
5242.468	1311.483	10.10	0.90	0.67	5						
						5241.473	154.075	10.26	1.69	1.18	-5
5243.438	1311.725	10.37	1.02	0.75	5	5242.502	154.105	10.30	1.66	1.16	-5
5245.445	1312.227	9.96	0.86	0.59	5	5243.517	154.135	10.37	1.68	0.97	-5
5247.429	1312.724	10.23	1.08	0.80	5	5244.503	154.164	10.33	1.66	1.21	-5
5257.378	1315.213	9.96	0.86	0.54	5	5245.489	154.193	10.27	1.66	1.14	-5
5273.272	1319.189	9.91	0.91	0.59	6						
						5246.472	154.222	10.25	1.63	1.15	-5
BK CEN						5250.517	154.341	9.32	1.31	0.90	5
						5251.473	154.369	9.32	1.39		7
J.D.	CYCLES	V	B-V	U-B	RF	5253.326	154.423	9.38	1.46		7
5165.512	1627.461	9.88	0.86	0.57	5	5256.467	154.516	9.53	1.57	1.11	5
5188.461	1634.691	10.19	1.01	0.70	5						
5189.530	1635.028	10.08	0.96	0.67	5	5273.296	155.010	10.26	1.71	1.13	6
5195.520	1636.915	10.30	1.05	0.75	5	5274.299	155.040	10.30	1.74	1.14	6
5201.460	1638.787	10.17	1.02	0.72	5	5275.328	155.070	10.31	1.70	1.06	6
						5276.314	155.099	10.33	1.70	1.08	6
5208.521	1641.011	10.12	0.91	0.63	5	5286.293	155.392	9.36	1.43		7
5236.408	1649.798	10.34	1.04	0.80	5						
5238.451	1650.441	9.97	0.88	0.60	5	KZ CEN					
5242.457	1651.703	10.28	1.04	0.79	5	J.D.	CYCLES	V	B-V	U-B	RF
5243.422	1652.007	10.01	0.88	0.58	5	5166.509	3399.182	11.85	0.40	0.19	-5
						5185.554	3411.713	12.69	0.35	0.09	-5
5247.440	1653.273	9.73	0.70	0.43	5	5216.395	3432.004	12.19	0.38	0.14	6
5250.452	1654.222	9.79	0.81	0.50	5	5217.406	3432.669	12.75	0.63	0.24	6
5272.222	1661.081	9.75	0.72	0.46	6	5223.382	3436.601	12.65	0.61	0.25	6
5273.246	1661.404	10.10	0.92	0.59	6						
5274.283	1661.731	10.35	0.97	0.62	6	5241.413	3448.464	12.56	0.55	0.38	-5
						5243.447	3449.802	12.73	0.74	0.48	-5
						5244.472	3450.476	12.56	0.57	0.26	-5
4512.392	370.466	10.91	1.03		7	5245.456	3451.124	11.79	0.30	0.04	5
4513.393	370.549	11.10	1.16		7	5270.379	3467.521	12.55	0.64	0.43	-5
KK CEN											

TABLE 1 (continued)

MY CEN						378 CEN					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4568.284	1228.492	11.61	1.60		7	4521.393	699.982	9.65	1.07		7
4572.295	1229.571	11.75	1.66		7	4522.356	700.131	8.34	0.93		7
4575.356	1230.394	11.74	1.61		7	4529.453	701.230	8.28	0.94		7
4576.314	1230.652	11.97	1.71		-7	4572.305	707.864	8.66	1.14		7
4869.473	1309.487	11.68	1.53		7	4588.305	710.341	8.39	0.97		7
4929.371	1325.595	11.79	1.68		7	4916.356	761.128	8.37	0.95		7
5281.345	1420.247	12.23	1.84		7	4930.346	763.294	8.33	0.96		7
5285.320	1421.316	12.09	1.78		7	4936.273	764.212	8.32	0.94		7
5303.288	1426.148	12.43	1.91		-7	5161.530	799.085	8.38	0.97	0.65	5
						5169.562	800.329	8.32	0.97	0.65	5
OO CEN						5176.557	801.412	8.35	0.99	0.70	5
J.D.	CYCLES	V	B-V	U-B	RF	5179.542	801.564	8.47	1.06	0.78	5
4530.467	351.701	11.65	1.63		7	5185.607	802.813	8.61	1.12	0.79	5
4916.364	381.658	11.62	1.73		-7	5195.555	804.353	8.33	0.98	0.66	5
4950.275	384.290	12.23	2.05		7	5201.512	805.275	8.29	0.95	0.63	5
4952.281	384.446	12.04	2.01		7	5204.562	805.747	8.59	1.10	0.81	5
4953.263	384.522	11.77	1.86		7	5205.526	805.896	8.62	1.11	0.81	5
						5208.566	806.367	8.34	0.99	0.66	5
5328.237	413.632	11.63	1.68		7	5236.464	810.686	8.56	1.11	0.80	5
5573.568	432.677	11.68	1.79		7						
5574.423	432.743	11.70	2.06		-7	5238.497	811.001	8.51	1.04	0.72	5
5611.503	435.622	11.48	1.72		7	5241.459	811.459	8.40	1.03	0.70	5
5623.344	436.541	11.67	1.75		7	5243.509	811.777	8.61	1.11	0.80	5
						5246.458	812.233	8.27	0.94	0.63	5
						5256.457	813.781	8.60	1.12	0.81	5
339 CEN						5306.230	821.487	8.42	1.04	0.67	6
J.D.	CYCLES	V	B-V	U-B	RF	5310.225	822.105	8.27	0.97	0.63	6
4562.317	481.908	9.01	1.42		7						
4563.412	482.023	9.13	1.40		7						
4567.373	482.442	8.51	1.10		7	4520.456	890.067	7.48	0.66		7
4568.296	482.539	8.50	1.17		7	4521.411	890.255	7.47	0.68		7
4569.370	482.653	8.65	1.24		7	4546.333	895.162	7.35	0.61		7
						4886.520	962.145	7.34	0.60		7
4576.325	483.387	8.60	1.13		7	4932.291	971.157	7.36	0.63		7
4889.449	516.462	8.46	1.07		7						
4917.455	519.420	8.49	1.11		7	5161.582	1016.304	7.50	0.77	0.51	5
5161.550	545.203	8.67	1.15	0.83	5	5163.590	1016.699	7.94	0.97	0.70	5
5163.572	545.417	8.50	1.09	0.74	5	5166.619	1017.295	7.45	0.74	0.51	5
						5176.572	1019.255	7.42	0.70	0.44	5
5165.575	545.629	8.60	1.18	0.90	5	5177.556	1019.449	7.66	0.86	0.61	5
5166.574	545.734	8.70	1.29	1.01	5						
5167.564	545.839	8.91	1.34	1.03	5	5179.559	1019.843	8.00	0.99	0.69	5
5177.561	546.895	8.95	1.37	1.13	5	5184.575	1020.831	7.99	0.98	0.72	5
5184.550	547.633	8.60	1.18	0.89	5	5185.634	1021.039	7.53	0.73	0.43	5
						5186.574	1021.224	7.36	0.69	0.42	5
5185.641	547.748	8.71	1.30	0.99	5	5188.541	1021.612	7.81	0.95	0.69	5
5186.578	547.847	8.89	1.37	1.05	5						
5188.548	548.055	8.93	1.31	0.97	5	5195.579	1022.998	7.72	0.81	0.51	5
5195.583	548.798	8.81	1.32	1.01	5	5201.525	1024.168	7.31	0.64	0.37	5
5201.528	549.426	8.46	1.08	0.74	5	5204.575	1024.769	7.95	0.98	0.72	5
5205.546	549.851	8.89	1.35	1.04	5	5205.538	1024.958	7.87	0.88	0.59	5
5208.586	550.172	8.71	1.18	0.84	5	5208.580	1025.557	7.79	0.92	0.66	5
5236.484	553.119	8.80	1.21	0.93	5						
5238.513	553.333	8.54	1.11	0.78	5	5236.476	1031.050	7.49	0.70	0.43	5
5241.490	553.647	8.60	1.20	0.90	5	5238.509	1031.450	7.67	0.89	0.60	5
						5241.482	1032.036	7.55	0.73	0.44	5
5243.534	553.863	8.88	1.37	1.07	5	5243.529	1032.439	7.65	0.86	0.59	5
5246.489	554.175	8.71	1.18	0.85	5	5246.485	1033.021	7.62	0.75	0.47	5
5257.427	555.331	8.52	1.10	0.78	5						
5306.240	560.487	8.37	1.07	0.71	6	5257.423	1035.174	7.28	0.64	0.37	5

TABLE 1 (continued)

419 CEN						420 CEN						CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V
4585.243	832.551	8.35	0.86		7	5274.268	212.949	9.66	0.70	0.38	6	4895.415	888.870	8.04	0.71
4586.268	832.737	8.12	0.75		7	5275.275	212.989	9.69	0.73	0.47	6	4906.408	890.866	8.14	0.76
4587.206	832.908	8.10	0.72		7	5276.258	213.029	9.73	0.78	0.46	6	4588.259	833.099	8.22	0.80
4865.487	883.436	8.35	0.83		7	496 CEN									
4895.415	888.870	8.04	0.71		7	J.D.	CYCLES	V	B-V	U-B	RF	4906.408	890.866	8.14	0.76
4934.220	895.916	8.06	0.71		7	4513.434	1020.186	9.69	1.00		7	5161.499	937.183	8.21	0.83
5169.488	938.634	8.21	0.78	0.54	5	4517.465	1021.097	9.65	1.02		7	5176.473	939.902	7.99	0.71
5177.474	940.084	8.13	0.78	0.54	5	4522.345	1022.200	9.70	1.07		7	5179.476	940.447	8.33	0.85
5201.441	944.436	8.31	0.87	0.61	5	4530.457	1024.033	9.80	1.10		7	5208.504	945.718	8.08	0.74
5236.383	950.780	8.02	0.68	0.45	5	4867.459	1100.207	9.76	1.07		7	5238.434	951.152	8.19	0.82
5243.395	952.053	8.11	0.78	0.51	5	4929.358	1114.198	9.71	1.08		7	5246.395	952.598	8.25	0.82
5257.356	954.588	8.24	0.82	0.56	5	5163.546	1167.133	9.63	1.00	0.68	5	5251.356	954.588	8.24	0.82
5311.207	964.366	8.28	0.88	0.57	6	5165.551	1167.586	10.10	1.30	0.91	5	5266.544	1167.810	10.20	1.32
420 CEN						5167.540	1168.035	9.80	1.09	0.72	5				
4565.315	184.325	10.07	0.82		7	5195.548	1174.366	9.88	1.19	0.88	5	5217.418	1179.309	9.80	1.16
4585.247	185.129	9.74	0.78		7	5241.455	1184.743	10.17	1.32	0.96	5	5242.493	1184.977	9.99	1.19
4587.213	185.209	9.84	0.79		7	5243.502	1185.205	9.69	1.09	0.72	5	4588.269	185.251	9.87	0.81
4834.468	195.192	9.80	0.76		-7	5244.491	1185.429	9.98	1.27	1.00	5	4835.533	195.235	9.85	0.80
4886.437	197.290	10.00	0.85		7	5245.478	1185.652	10.12	1.32	0.92	5	4895.424	197.653	10.42	0.80
4896.382	197.691	10.36	0.72		7	5246.452	1185.872	10.23	1.31	0.96	-5	4914.355	198.417	10.20	0.91
8 CEP HD 213306						5250.499	1186.787	10.22	1.32	0.97	-5	5256.449	1188.132	9.62	1.02
4916.288	198.495	10.39	0.89		7	5274.294	1192.165	9.63	1.04	0.70	6	4918.324	198.577	10.41	0.87
4919.369	198.620	10.43	0.82		7	5311.216	1200.511	9.98	1.27	0.91	6	4920.354	198.659	10.40	0.78
4921.356	198.700	10.31	0.72		7	5276.774	515.952	4.29	0.80		8	5273.847	516.897	4.33	0.85
4924.336	198.820	9.53	0.51		7	5279.990	518.042	3.91	0.68		8	5169.495	208.718	9.85	0.56
5166.479	208.597	10.47	0.82	0.57	5	53136.882	584.548	3.99	0.76		8	5184.481	209.323	10.31	1.01
5188.446	209.484	10.58	0.92	0.74	5	53137.837	584.726	4.21	0.86		8	5189.518	209.527	10.62	1.00
5195.507	209.769	9.50	0.46	0.22	5	53145.806	586.211	3.59	0.48		8	5217.364	210.651	10.31	0.78
5223.473	210.898	9.59	0.61		7	53146.830	586.401	3.82	0.64		8	5224.507	210.940	9.66	0.67
5243.399	211.702	9.75	0.55	0.27	5	53147.802	586.583	4.04	0.79		8	5244.451	211.745	9.41	0.48
5245.421	211.784	9.39	0.48	0.21	5	53148.854	586.779	4.27	0.86		8	5250.430	211.986	9.73	0.79
5256.402	212.227	10.04	0.96	0.69	5	53151.812	587.330	3.74	0.58		8	5257.361	212.266	10.17	0.97
5273.229	212.907	9.59	0.68	0.38	6	53152.854	587.524	3.96	0.74		8	5273.229	212.907	9.59	0.68

TABLE 1 (continued)

S	CEP	HD	213306	CONT.	AK	CEP	CONT.				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6827.616	1272.304	3.79	0.60		4	6848.677	946.960	10.86	1.17	0.85	2
6827.835	1272.345	3.85	0.62		4	6853.601	947.640	11.48	1.43		2
6828.795	1272.524	4.07	0.79		4	6856.680	948.066	10.87	1.22		2
6829.770	1272.705	4.28	0.86		4	6867.603	949.577	11.42	1.47		4
6832.754	1273.261	3.71	0.54		4	6869.588	949.851	11.25	1.31		4
6837.602	1274.165	3.56	0.44		4	6876.617	950.823	11.41	1.36		4
6843.668	1275.295	3.78	0.56		4	6879.588	951.234	11.10	1.30		4
6846.657	1275.852	4.35	0.89		4	6880.588	951.372	11.19	1.38		4
6847.656	1276.038	3.90	0.60		4	6943.559	960.079	10.94	1.22		4
6848.638	1276.221	3.64	0.50		4	6948.565	960.771	11.49	1.43		4
7134.873	1329.560	4.04	0.83	0.53	1	6951.594	961.190	11.02	1.29		4
7143.933	1331.249	3.64	0.57	0.36	1	6955.567	961.739	11.51	1.50		4
7144.895	1331.428	3.89	0.71	0.45	1	6972.572	964.090	10.93	1.24		4
7147.904	1331.988	4.14	0.75	0.43	1	7228.755	999.513	11.35	1.44	1.13	1
7188.770	1339.604	4.06	0.83	0.59	1	7233.765	1000.205	11.07	1.32	0.89	1
7189.746	1339.786	4.30	0.89	0.64	1	6830.605	382.541	10.90	1.96		4
7191.808	1340.170	3.51	0.46	0.38	1	6831.704	382.602	10.97	1.86		4
7213.726	1344.254	3.61	0.56	0.35	1	6831.747	382.605	10.99	1.92		4
7214.715	1344.439	3.89	0.74	0.45	1	6832.699	382.658	10.95	1.88		4
7228.732	1347.050	3.79	0.57	0.31	1	6833.622	382.710	10.85	1.78		4
7233.758	1347.987	4.14	0.74	0.43	1	6836.588	382.876	10.58	1.59		4
7236.686	1348.533	4.04	0.77	0.50	1	6837.586	382.932	10.29	1.45		4
7237.687	1348.719	4.26	0.87	0.59	1	6837.838	382.946	10.25	1.42		4
7239.710	1349.096	3.55	0.47	0.30	1	6843.650	383.271	10.53	1.74		4
7515.915	1400.566	4.06	0.81	0.58	1	6846.642	383.439	10.77	1.87		4
7517.887	1400.934	4.29	0.84	0.57	1	6847.640	383.495	10.85	1.91		4
7521.944	1401.690	4.24	0.87	0.62	1	6848.624	383.550	10.92	1.91		4
7522.876	1401.863	4.31	0.90	0.63	1	6867.590	384.612	10.94	1.86		4
7523.845	1402.044	3.83	0.59	0.36	1	6869.575	384.723	10.78	1.75		4
7592.754	1414.885	4.33	0.88	0.65	1	6876.582	385.115	10.32	1.55		4
AK CEP											
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6796.815	939.789	11.53	1.43		2	6879.576	385.283	10.52	1.74		4
6797.899	939.939	10.96	1.29		2	6880.579	385.339	10.59	1.80		4
6807.874	941.318	11.15	1.38	0.93	2	6941.558	388.754	10.73	1.73		4
6808.776	941.443	11.26	1.43	1.06	2	6942.551	388.810	10.74	1.65		4
6809.724	941.574	11.41	1.47	1.12	2	6948.558	389.146	10.35	1.56		4
6811.811	941.862	11.23	1.29	0.88	2	7521.904	421.256	10.59	1.70	1.48	1
6812.759	941.993	10.86	1.15	0.85	2	7600.724	425.670	10.90	1.82	1.60	1
6813.720	942.126	10.96	1.24	0.86	2	7601.618	425.720	10.82	1.76	1.45	1
6817.735	942.681	11.50	1.51	1.18	2	7619.681	426.732	10.74	1.75	1.47	1
6818.733	942.819	11.36	1.40	0.95	2	7635.614	427.624	10.91	1.90	1.71	1
6831.767	944.622	11.50	1.48		4	7646.635	428.241	10.33	1.75	1.43	1
6832.720	944.753	11.52	1.50		4	7647.643	428.298	10.49	1.70	1.52	1
6833.633	944.880	11.13	1.30		4	7654.644	428.690	10.81	1.78	1.42	1
6833.753	944.896	11.13	1.28	0.83	2	7655.624	428.745	10.73	1.70	1.36	1
6834.781	945.038	10.90	1.16	0.77	2	7656.604	428.800	10.69	1.63	1.29	1
6836.606	945.291	11.15	1.35		4	7661.627	429.081	10.20	1.51	1.15	1
6836.693	945.303	11.15	1.35	1.00	2	7663.641	429.194	10.35	1.58	1.36	1
6837.599	945.428	11.25	1.43		4	6772.917	1086.589	9.50	1.41		3
6837.849	945.462	11.34	1.44		4	6773.890	1086.745	9.60	1.56		3
CR CEP											
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6846.654	946.680	11.50	1.48		4						
6846.859	946.708	11.52	1.53	0.96	2						
6847.654	946.818	11.36	1.40		4						
6848.636	946.954	10.91	1.17		4						

TABLE I (continued)

CR	CEP	CONT.				CR	CEP	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6774.875	1086.903	9.70	1.57			3		7228.763	1159.721	9.59	1.49	1.09	1
6777.967	1087.399	9.45	1.36	0.92	3								
6785.967	1088.683	9.57	1.48	1.11	3			7233.771	1160.525	9.47	1.40	0.97	1
6787.868	1088.988	9.77	1.58	1.18	3			7251.681	1163.398	9.45	1.35	0.93	1
6789.971	1089.325	9.54	1.39	0.94	3			7253.645	1163.713	9.61	1.50	1.11	1
6806.791	1092.024	9.81	1.55	1.29	3			7267.610	1165.954	9.75	1.55	1.22	1
6807.777	1092.182	9.77	1.50	1.07	3			7273.585	1166.912	9.74	1.54	1.18	1
6808.783	1092.343	9.51	1.39	1.00	3			7515.938	1205.793	9.64	1.50	1.15	1
6809.778	1092.503	9.45	1.41	1.01	3								
6810.783	1092.664	9.57	1.48	1.05	3								
6811.778	1092.824	9.64	1.54	1.10	3								
6812.781	1092.985	9.78	1.57	1.15	3								
6813.774	1093.144	9.81	1.56	1.07	3								
6814.790	1093.307	9.60	1.40	0.97	3			5161.301	1103.304	8.36	1.05	0.76	5
6815.749	1093.461	9.45	1.37	0.97	3			5164.316	1103.949	7.88	0.94	0.67	5
6816.774	1093.625	9.54	1.44	1.12	3			5166.319	1104.377	8.37	1.05	0.80	5
6817.737	1093.780	9.65	1.51	1.09	3			5176.318	1106.514	8.32	0.98	0.69	5
6819.766	1094.105	9.84	1.56	1.25	3			5177.307	1106.726	7.69	0.72	0.45	5
6825.655	1095.050	9.83	1.58		4			5187.357	1108.874	7.91	0.81		7
6825.845	1095.081	9.82	1.56		4			5194.349	1110.369	8.43	1.04		7
6826.843	1095.241	9.67	1.49		4			5195.282	1110.568	8.14	0.87	0.57	5
6827.636	1095.368	9.49	1.37		4			5201.265	1111.847	7.90	0.81	0.53	5
6827.850	1095.402	9.47	1.38		4			5208.250	1113.340	8.38	1.03	0.75	5
6829.788	1095.713	9.61	1.48		4			5209.251	1113.554	8.20	0.90	0.59	5
6830.792	1095.874	9.73	1.53		4			5223.241	1116.545	8.30	0.91		7
6831.782	1096.033	9.83	1.57		4			5224.279	1116.767	7.79	0.72		7
6832.730	1096.185	9.78	1.51		4			5238.230	1119.749	7.75	0.73	0.43	5
6833.638	1096.331	9.54	1.40		4			5242.225	1120.603	7.98	0.79	0.50	5
6837.615	1096.969	9.79	1.57		4			5245.203	1121.240	8.32	1.02	0.74	5
6837.855	1097.007	9.83	1.58		4			5246.201	1121.453	8.45	1.03	0.75	5
6843.683	1097.942	9.76	1.55		4			5256.208	1123.592	8.02	0.82	0.53	5
6845.702	1098.266	9.65	1.43	0.99	3			5532.419	1182.636	7.85	0.74		7
6846.668	1098.421	9.47	1.36		4			5555.366	1187.541	8.42	0.91		7
6846.740	1098.433	9.45	1.36	0.93	3			5612.214	1199.694	7.72	0.66		7
6847.666	1098.581	9.52	1.43		4			7623.946	1629.731	7.69	0.62	0.53	1
6848.652	1098.740	9.61	1.49		4			7635.906	1632.287	8.36	0.99	0.72	1
6849.736	1098.913	9.73	1.53	1.09	3			7648.924	1635.070	8.13	0.92	0.60	1
6866.602	1101.619	9.53	1.44		4			7653.882	1636.130	8.22	0.94	0.65	1
6867.609	1101.781	9.64	1.50		4			7654.858	1636.339	8.38	0.99	0.73	1
6869.594	1102.099	9.81	1.55		4			7656.747	1636.743	7.78	0.67	0.44	1
6876.624	1103.227	9.75	1.44		4			7660.834	1637.616	8.14	0.82	0.48	1
6879.595	1103.704	9.56	1.46		4			7661.779	1637.818	7.84	0.73	0.47	1
6880.600	1103.865	9.69	1.53		4			7663.786	1638.247	8.32	0.93	0.72	1
6940.606	1113.492	9.44	1.38		4								
6953.568	1115.571	9.49	1.41		4								
6971.577	1118.461	9.44	1.36		4								
7134.883	1144.660	9.55	1.51	1.08	1			5187.373	1219.124	9.77	1.10		-7
7147.919	1146.751	9.62	1.52	1.10	1			5194.360	1220.766	9.43	0.93		7
7160.787	1148.816	9.70	1.54	1.11	1			5223.255	1227.557	9.81	1.04		7
7162.794	1149.138	9.73	1.55	1.12	1			5535.373	1300.910	9.58	1.03		7
7178.863	1151.716	9.52	1.50	1.07	1			5547.412	1303.740	9.40	0.90		7
7183.838	1152.514	9.48	1.41	0.97	1			5555.379	1305.612	9.57	0.95		7
7191.833	1153.797	9.62	1.50	1.15	1			5568.340	1308.658	9.45	0.89		7
7198.880	1154.927	9.78	1.49	1.20	1			5573.330	1309.831	9.51	0.96		7
7202.829	1155.561	9.51	1.43	1.00	1			7015.610	1648.792	9.46	0.94	0.55	1
7203.810	1155.718	9.63	1.49	1.07	1			7020.632	1649.972	9.66	1.06	0.64	1

TABLE I (continued)

RZ	CMA	CONT.				TW	CMA	CONT.					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF		
7022.620	1650.440	9.96	1.08	0.70	1	6857.001	980.345	9.54	1.01		2		
7023.642	1650.680	9.38	0.86	0.52	1	6859.006	980.631	9.78	1.12		2		
7600.939	1786.355	9.94	1.12	0.74	1	7015.617	1003.022	9.35	0.86	0.49	1		
7601.907	1786.582	9.58	0.97	0.57	1	7020.637	1003.740	9.88	1.16	0.83	1		
7623.960	1791.765	9.37	0.90	0.68	1	7022.626	1004.024	9.37	0.84	0.49	1		
7635.916	1794.575	9.65	1.01	0.58	1	7023.637	1004.169	9.35	0.85	0.57	1		
7648.931	1797.634	9.40	0.89	0.56	1	7315.799	1045.939	9.58	0.98	0.56	1		
7653.890	1798.799	9.48	0.94	0.60	1	7600.946	1086.706	9.85	1.14	0.86	1		
7654.865	1799.028	9.71	1.09	0.68	1	7601.913	1086.845	9.85	1.13	0.79	1		
7656.755	1799.472	9.94	1.11	0.66	1	7635.923	1091.707	9.86	1.18	0.85	1		
7660.841	1800.433	9.95	1.12	0.69	1	7648.939	1093.568	9.65	1.10	0.74	1		
7661.785	1800.655	9.38	0.89	0.53	1	7653.897	1094.277	9.44	0.94	0.63	1		
7663.793	1801.126	9.79	1.11	0.73	1	7654.872	1094.416	9.48	1.07	0.66	1		
SS CMA													
J.D.	CYCLES	V	B-V	U-B	RF			7656.763	1094.687	9.81	1.14	0.82	1
5164.332	417.759	9.27	1.02	0.70	5			7660.848	1095.271	9.43	0.95	0.63	1
5165.307	417.838	9.54	1.17	0.84	5			7661.792	1095.406	9.50	1.02	0.67	1
5166.325	417.920	9.74	1.24	0.96	5			7663.799	1095.692	9.80	1.16	0.85	1
5167.332	418.001	9.86	1.28	1.02	5								
5195.297	420.264	10.34	1.46	1.13	-5								
VZ CMA													
J.D.	CYCLES	V	B-V	U-B	RF			4811.356	1538.945	12.75	0.51		-7
5209.270	421.394	10.33	1.42	1.05	-5			4812.349	1539.262	12.48	0.61		7
5238.241	423.737	9.42	1.00	0.65	5			5161.309	1650.879	9.45	1.05	0.71	5
5239.224	423.817	9.56	1.09	0.75	5			5165.313	1652.160	9.51	1.11	0.74	5
5242.234	424.060	9.99	1.38	1.02	5			5166.335	1652.487	9.16	0.92	0.63	5
5246.218	424.383	10.30	1.42	1.12	-5			5195.305	1661.753	9.29	0.97	0.65	5
5267.198	426.080	10.04	1.34	1.02	5			5209.278	1666.223	9.54	1.04	0.71	5
TV CMA													
J.D.	CYCLES	V	B-V	U-B	RF			5256.220	1681.237	9.52	1.04	.0.69	5
4811.378	1030.318	10.36	1.11		-7								
5187.348	1110.829	10.88	1.38		7								
5194.337	1112.325	10.34	1.15		7								
5224.265	1118.734	10.82	1.38		7								
5535.363	1185.353	10.35	1.16		7								
5555.356	1189.635	10.70	1.35		7			7014.722	161.518	12.61	1.29	0.98	1
5567.308	1192.194	10.16	1.05		7			7015.778	161.542	12.61	1.30	0.93	1
5573.316	1193.481	10.50	1.23		-7			7020.779	161.657	12.59	1.34	1.05	1
5580.284	1194.973	10.91	1.36		7			7021.802	161.681	12.62	1.35	1.08	1
6854.011	1467.731	10.80	1.39		2			7022.806	161.704	12.64	1.36	1.15	1
6856.986	1468.368	10.42	1.18		2			7043.798	162.187	12.86	1.45	1.23	1
6858.995	1468.798	10.86	1.34		2			7044.704	162.208	12.86	1.40	1.20	1
Y COM													
J.D.	CYCLES	V	B-V	U-B	RF		7049.844	162.327	12.79	1.39	1.41	1	
5535.363	1185.353	10.35	1.16		7			7050.772	162.348	12.83	1.44	1.17	1
5555.393	794.254	9.47	1.01		-7			7052.779	162.394	12.83	1.47	1.23	1
5573.335	796.819	9.89	1.13		7								
5595.268	799.955	9.56	0.94		7								
5627.193	804.519	9.65	1.11		7			7091.722	163.291	12.74	1.24		1
TW CMA													
J.D.	CYCLES	V	B-V	U-B	RF	7054.740	162.439	12.90	1.47	1.24	1		
5532.429	790.971	9.48	0.91		7	7056.843	162.488	12.81	1.37	1.29	1		
5535.383	791.393	9.51	1.04		7	7057.679	162.507	12.94	1.41	1.28	1		
5547.421	793.114	9.29	0.85		7	7081.750	163.061	12.80	1.40	1.26	1		
5555.393	794.254	9.47	1.01		-7	7086.768	163.177	12.84	1.46	1.17	1		
5573.335	796.819	9.89	1.13		7	7087.645	163.197	12.82	1.44	1.10	1		
5595.268	799.955	9.56	0.94		7	7087.651	163.197	12.78	1.36	1.27	1		
5627.193	804.519	9.65	1.11		7	7099.737	163.475	12.67	1.34	1.13	1		

TABLE 1 (continued)

Y COM		CONT.				KQ CRA		CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7100.683	163.497	12.69	1.34	1.04	1	5629.463	182.065	12.55	1.15	-7	
7102.729	163.544	12.67	1.31	1.00	1	5630.366	182.095	12.31	1.19	-7	
7131.639	164.210	12.93	1.42	1.38	1	5631.356	182.127	12.16	1.21	7	
7131.647	164.210	12.95	1.44	1.19	1	5634.444	182.227	12.79	1.09	7	
7459.683	171.763	12.88	1.32	1.01	1	5636.417	182.290	12.53	1.42	7	
7462.695	171.833	12.80	1.28	0.97	1	5638.437	182.356	13.18	1.16	7	
						5639.462	182.389	12.93	1.11	-7	
						5652.328	182.805	11.99	0.85	-7	
AL CRA						5655.427	182.905	12.10	0.81	-7	
J.D.	CYCLES	V	B-V	U-B	RF	5664.227	183.190	11.87	1.16	-7	
						5668.424	183.326	12.44	1.19	-7	
4563.554	267.500	11.57	1.00		7						
4578.514	268.377	11.44	0.87		7						
4579.470	268.433	11.44	0.92		7		347 CRA				
5308.484	311.166	11.82	0.66		7						
5309.357	311.217	11.73	0.62		7	J.D.	CYCLES	V	B-V	U-B	RF
5310.353	311.275	11.61	0.78		7	4563.541	297.280	12.27	0.81		7
5328.308	312.328	11.50	0.79		7	4564.572	297.347	12.51	0.75		7
5612.410	328.981	12.33	0.96		7	4575.527	298.061	12.51	0.76		7
5624.573	329.594	12.53	1.15	-7		4930.472	321.183	12.27	0.79	-7	
5626.554	329.810	12.47	1.26		7	5328.291	347.097	12.24	0.73		7
5627.418	329.860	12.52	1.28	-7		5343.235	348.071	12.28	0.71	-7	
5628.541	329.926	12.43	1.03		7	5624.546	366.396	12.58	0.92	-7	
5629.487	329.982	12.29	0.88		7						
5630.476	330.040	12.18	0.78		7						
5631.381	330.093	12.00	0.73		7		R CRU				
5634.465	330.273	11.43	0.88		7	J.D.	CYCLES	V	B-V	U-B	RF
5636.440	330.389	11.48	0.94		7	3776.185	648.189	6.70	0.79		9
5637.434	330.448	11.55	0.96		7	3776.986	648.326	6.84	0.89		9
5638.466	330.508	11.67	1.03		7	3825.955	656.732	7.13	0.89		9
5639.485	330.568	11.80	1.13		7	3855.885	661.869	6.62	0.65		9
5642.531	330.746	12.58	1.28		7	4520.444	775.942	6.43	0.61		7
5652.351	331.322	11.50	0.85		7						
5657.461	331.621	12.09	1.06		7	4527.091	777.083	6.61	0.68		9
5667.498	332.210	11.67	0.68		7	4532.415	777.997	6.49	0.63		7
5668.436	332.265	11.52	0.73		7	4544.007	779.987	6.46	0.61		9
						4558.015	782.391	6.92	0.91		9
						4561.008	782.905	6.43	0.58		9
KQ CRA											
J.D.	CYCLES	V	B-V	U-B	RF	4825.947	828.382	7.11	0.99		9
						4833.129	829.615	7.17	1.01		9
						4834.148	829.790	6.92	0.80		9
4562.546	147.560	12.34	1.07		7	4845.062	831.663	7.26	1.00		9
4564.535	147.624	12.03	0.70		7	4847.392	832.063	6.51	0.68		7
4573.422	147.911	11.92	1.07		7						
4574.425	147.944	11.94	1.02		7	4848.058	832.178	6.68	0.80		9
4576.445	148.009	12.07	1.19		7	4873.053	836.468	7.04	0.95		9
						4886.467	838.771	7.01	0.84		7
4577.475	148.043	12.19	1.04		7	4916.338	843.898	6.46	0.58		7
4578.485	148.075	12.15	1.13		7	4917.994	844.182	6.71	0.80		9
5281.472	170.811	11.92	0.92		7						
5308.441	171.683	11.90	0.80		7	4920.987	844.696	7.20	0.95		9
5309.341	171.712	12.18	0.80		7	4922.312	844.923	6.42	0.58		7
						4925.015	845.387	6.93	0.92		9
5310.288	171.743	12.00	0.91		7	4927.020	845.732	7.12	0.93		9
5567.571	180.064	12.22	1.02		7	4928.059	845.910	6.44	0.57		9
5623.444	181.871	12.06	1.00	-7							
5624.504	181.905	12.06	0.98	-7		4949.984	849.673	7.25	1.01		9
5626.532	181.971	12.00	1.02		7	4950.963	849.841	6.72	0.69		9
						4952.963	850.185	6.73	0.81		9
5627.393	181.999	11.98	1.13		7	4953.928	850.350	6.85	0.91		9
5628.497	182.034	12.41	0.88	-7		5169.527	887.358	6.85	0.91	0.66	5

TABLE I (continued)

R	CRU	CONT.				T	CRU	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5176.505	888.556	7.07	0.99	0.73	5	4834.158	717.956	6.73	1.05		9
5177.510	888.729	7.07	0.94	0.67	5	4845.069	719.577	6.45	0.87		9
5179.509	889.072	6.52	0.71	0.47	5	4848.054	720.020	6.76	1.04		9
5201.484	892.844	6.61	0.70	0.44	5	4873.045	723.732	6.56	0.95		9
5205.498	893.533	7.05	0.99	0.72	5	4917.999	730.408	6.40	0.81		9
5208.540	894.055	6.49	0.72	0.45	5	4920.992	730.853	6.67	1.00		9
5216.404	895.405	6.93	0.92	0.63	6	4925.008	731.449	6.40	0.80		9
5236.430	898.842	6.63	0.72	0.45	5	4925.352	731.500	6.36	0.79		7
5238.470	899.192	6.70	0.79	0.54	5	4925.949	731.589	6.47	0.89		9
5243.470	900.051	6.48	0.71	0.45	5	4927.017	731.748	6.56	0.94		9
5246.421	900.557	7.07	1.00	0.74	5	4931.231	732.373	6.44	0.83	-7	9
						4949.992	735.160	6.84	1.04		
S	CRU					4950.967	735.305	6.60	0.86		9
J.D.	CYCLES	V	B-V	U-B	RF	4952.969	735.602	6.47	0.88		9
4587.270	978.092	6.94	0.96		7	4953.934	735.745	6.58	0.97		9
4588.297	978.311	6.75	0.81		7	5161.517	766.575	6.41	0.88	0.61	5
4847.418	1033.560	6.32	0.67		7	5176.500	768.800	6.56	0.98	0.73	5
4907.362	1046.341	6.51	0.70		7	5177.506	768.950	6.70	1.05	0.82	5
4908.262	1046.533	6.28	0.63		7	5179.500	769.246	6.65	0.95	0.69	5
4931.291	1051.443	6.22	0.58		7	5188.557	770.591	6.46	0.86		7
5169.558	1102.246	6.88	0.91	0.63	5	5194.592	771.487	6.39	0.81		7
5176.547	1103.736	6.55	0.82	0.56	5	5201.481	772.510	6.34	0.83	0.57	5
5177.534	1103.947	6.76	0.93	0.67	5	5205.491	773.106	6.81	1.08	0.81	5
5179.538	1104.374	6.40	0.67	0.41	5	5208.532	773.557	6.40	0.86	0.59	5
5185.595	1105.666	6.47	0.77	0.49	5	5236.421	777.699	6.49	0.95	0.69	5
5201.506	1109.058	6.86	0.95	0.69	5	5238.460	778.002	6.78	1.06	0.81	5
5204.556	1109.709	6.49	0.81	0.54	5	5243.467	778.746	6.51	0.97	0.71	5
5205.523	1109.915	6.74	0.92	0.65	5	5292.330	786.003	6.74	1.07	0.82	5
5208.563	1110.563	6.32	0.69	0.42	5	5296.269	786.588	6.47	0.88		7
5236.460	1116.511	6.23	0.63	0.37	5	X	CRU				
5238.493	1116.945	6.76	0.94	0.66	5	J.D.	CYCLES	V	B-V	U-B	RF
5241.448	1117.575	6.32	0.69	0.42	5	4563.363	733.663	8.63	1.14		7
5243.498	1118.012	6.81	0.94	0.68	5	4564.312	733.816	8.67	1.11	-7	
5246.448	1118.641	6.42	0.76	0.49	5	4565.331	733.980	8.52	1.01		7
5250.494	1119.503	6.25	0.64	0.37	5	4901.451	788.018	8.41	0.98		7
5273.283	1124.362	6.42	0.68	0.36	6	4906.436	788.820	8.72	1.16		7
5282.325	1126.290	6.80	0.84		7	4907.355	788.968	8.45	1.00		7
5348.237	1140.344	6.56	0.68		7	4914.376	790.096	8.20	0.90		7
5358.200	1142.468	6.28	0.57		7	4925.363	791.863	8.67	1.13		7
T	CRU					5169.546	831.121	8.12	0.86	0.59	5
J.D.	CYCLES	V	B-V	U-B	RF	5176.543	832.246	8.14	0.90	0.63	5
3776.183	560.829	6.60	0.99		9	5177.530	832.404	8.30	1.01	0.74	5
3777.186	560.978	6.73	1.05		9	5179.530	832.726	8.57	1.08	0.87	5
3852.950	572.230	6.70	0.96		9	5185.589	833.700	8.55	1.12	0.82	5
3855.891	572.667	6.49	0.91		9	5188.568	834.179	8.15	0.84		7
4513.410	670.320	6.56	0.88		7	5201.502	836.258	8.17	0.93	0.63	5
4520.433	671.363	6.47	0.81		7	5205.516	836.904	8.62	1.10	0.79	5
4521.386	671.504	6.40	0.79		7	5208.555	837.392	8.30	1.03	0.73	5
4527.096	672.352	6.52	0.83		9	5236.452	841.877	8.63	1.13	0.86	5
4534.412	673.439	6.35	0.76		7	5238.489	842.205	8.11	0.89	0.60	5
4544.015	674.865	6.66	1.02		9	5241.444	842.680	8.53	1.11	0.82	5
4558.020	676.945	6.74	1.07		9	5243.494	843.010	8.33	0.98	0.67	5
4561.003	677.388	6.44	0.79		9	5246.438	843.483	8.36	1.05	0.78	5
4833.119	717.802	6.61	1.01		9	5281.329	849.092	8.16	0.88		7

TABLE 1 (continued)

X	CRU	CONT.				TY	CRU				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5282.311	849.250	8.29	0.93		7	4567.300	915.575	12.46	1.31		7
5308.316	853.431	8.41	1.05		7	4576.297	917.379	12.80	1.49		7
						4577.307	917.581	12.58	1.35		-7
5309.231	853.578	8.49	1.10	0.81	6	4916.323	985.541	12.59	1.38		7
						5555.559	1113.684	12.68	1.52		-7
	SU CRU					5574.402	1117.462	12.52	1.42		-7
						5629.274	1128.462	12.69	1.38		-7
J.D.	CYCLES	V	B-V	U-B	RF	VW	CRU				
4512.422	351.178	9.67	1.71		7	J.D.	CYCLES	V	B-V	U-B	RF
4530.429	352.579	10.00	2.10		7	4512.430	857.086	9.49	1.20		7
4532.408	352.733	10.04	2.03		7	4513.425	857.275	9.47	1.28		7
4534.407	352.889	9.86	1.82		7	4545.260	863.322	9.51	1.29		7
4587.252	357.001	9.46	1.43		7	4585.258	870.919	9.96	1.46		7
4834.561	376.248	9.73	1.80		7	4929.345	936.275	9.47	1.27		7
4895.452	380.987	9.43	1.44		7	4934.286	937.213	9.42	1.22		7
4896.394	381.060	9.59	1.59		7	5163.535	980.756	9.87	1.41	1.04	5
4921.387	383.005	9.43	1.44		7	5165.545	981.138	9.34	1.15	0.83	5
4922.306	383.077	9.58	1.59		7	5166.538	981.327	9.46	1.30	0.96	5
4934.235	384.005	9.43	1.45		7	5184.497	984.738	9.82	1.46	1.01	5
5166.532	402.084	9.56	1.55	1.13	5	5186.543	985.127	9.33	1.18	0.85	5
5184.491	403.481	9.95	1.98	1.52	-5	5188.502	985.499	9.60	1.33	1.08	5
5186.540	403.641	10.04	1.95	1.52	-5	5189.563	985.700	9.79	1.42	1.07	5
5188.497	403.793	9.87	1.84	1.35	-5	5195.544	986.836	9.88	1.49	1.16	-5
5189.558	403.876	9.83	1.80	1.46	-5	5216.415	990.800	9.92	1.46	1.16	6
5241.425	407.912	9.81	1.69	1.24	-5	5223.394	992.126	9.35	1.17	0.84	6
5242.481	407.994	9.39	1.40	0.98	5	5241.428	995.551	9.66	1.36	1.03	5
5243.464	408.071	9.53	1.56	1.09	5	5242.485	995.752	9.82	1.42	1.11	5
5244.480	408.150	9.63	1.63	1.30	-5	5243.476	995.940	9.84	1.34	1.00	5
5245.464	408.226	9.68	1.76	1.39	-5	5244.487	996.132	9.34	1.16	0.82	5
5246.415	408.300	9.75	1.80	1.39	-5	5245.471	996.319	9.45	1.27	0.94	5
5247.423	408.379	9.81	1.86	1.55	-5	5250.391	997.254	9.38	1.23	0.89	5
5250.477	408.617	10.01	2.02	1.62	-5	5275.319	1001.989	9.76	1.36	0.99	6
5256.443	409.081	9.54	1.55	1.18	5	5276.292	1002.173	9.34	1.18	0.83	6
5331.231	414.901	9.85	1.80		7	VX CRU					
						J.D.	CYCLES	V	B-V	U-B	RF
5626.247	437.861	9.99	1.89		7	4512.441	369.491	12.24	1.80		7
5627.250	437.939	9.74	1.70		7	4517.445	369.900	11.75	1.52		7
5639.226	438.871	9.90	1.90		-7	4517.454	369.901	11.67	1.53		7
5640.247	438.950	9.66	1.65		7	4530.444	370.965	11.38	1.42		7
5641.237	439.027	9.51	1.57		7	4569.324	374.148	11.85	1.58		7
	SV CRU					4580.294	375.047	11.57	1.55		-7
						4896.405	400.931	11.64	1.47		7
						5251.422	430.000	11.47	1.45		7
J.D.	CYCLES	V	B-V	U-B	RF	AD CRU					
4512.403	644.236	11.76	1.26		7	J.D.	CYCLES	V	B-V	U-B	RF
4546.321	649.079	12.06	1.38		7	4521.377	706.637	10.73	1.09		7
4575.267	653.211	11.82	1.24		7	4534.398	708.672	10.69	1.12		7
4576.289	653.357	12.00	1.41		7	4535.409	708.830	10.87	1.27		7
4834.496	690.221	11.79	1.33		-7	4834.551	755.583	10.76	1.18		7
4919.388	702.341	11.97	1.35		-7	4867.447	760.724	10.79	1.20		7
4925.313	703.187	11.81	1.25		7						

TABLE 1 (continued)

AD	CRU	CONT.				X	CYG	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4924.353	769.618	10.85	1.28		-7	3093.906	188.807	6.77	1.29		8
4925.342	769.772	10.84	1.22		7						
4931.276	770.700	10.71	1.21		7	3095.908	188.929	6.57	1.12		8
5163.530	806.998	10.96	1.38	1.00	-5	3096.899	188.990	5.81	0.84		8
5166.515	807.465	11.21	1.43	1.05	-5	3098.965	189.116	6.08	0.98		8
						3119.837	190.390	6.40	1.36		8
5186.531	810.593	10.64	1.15	0.81	-5	3122.833	190.572	6.70	1.51		8
5188.493	810.900	11.44	2.01		-5						
5224.521	816.530	10.98	1.26		7	3123.934	190.640	6.79	1.52		8
5241.417	819.171	11.32	1.37	1.14	-5	3125.927	190.761	6.80	1.37		8
5242.476	819.337	11.42	1.49	1.08	-5	3126.938	190.823	6.63	1.26		8
						3131.764	191.117	6.09	1.01		8
5243.455	819.490	11.16	1.22	0.86	-5	3132.920	191.188	6.18	1.09		8
5244.476	819.649	10.71	1.09	0.77	-5						
5245.460	819.803	10.91	1.26	0.90	-5	3133.951	191.251	6.25	1.16		8
5257.391	821.668	10.71	1.14	0.83	-5	3151.719	192.335	6.41	1.28		8
5270.387	823.699	10.71	1.17	0.80	-5	3152.823	192.403	6.51	1.36		8
						3153.865	192.466	6.62	1.40		8
5275.314	824.469	11.23	1.37	0.96	6	3154.837	192.525	6.68	1.45		8
5276.274	824.619	10.67	1.12	0.73	6						
5282.285	825.558	10.98	1.21		7	3179.667	194.041	5.92	0.90		8
5306.225	829.300	11.44	1.49	1.14	-6	7131.897	435.227	6.22	1.19	0.93	1
5308.276	829.620	10.75	1.14		7	7142.807	435.893	6.64	1.21	0.89	1
						7143.869	435.958	6.15	0.96	0.61	1
						7144.849	436.018	5.88	0.84	0.56	1
AG	CRU										
J.D.	CYCLES	V	B-V	U-B	RF	7147.856	436.201	6.12	1.13	0.87	1
4563.328	1189.194	7.81	0.54		7	7149.881	436.325	6.34	1.28	1.10	1
4575.303	1192.314	7.98	0.64		7	7156.894	436.753	6.83	1.39	1.20	1
4847.399	1263.222	7.75	0.55		7	7183.733	438.391	6.42	1.33	1.14	1
4885.451	1273.138	7.98	0.60		7	7206.731	439.794	6.73	1.32	1.02	1
4901.435	1277.304	7.94	0.66		7	7213.697	440.219	6.15	1.15	0.88	1
						7214.677	440.279	6.29	1.22	0.96	1
4916.347	1281.190	7.82	0.54		7	7214.697	440.280	6.15	1.15	0.88	1
4920.394	1282.244	7.84	0.58		7	7215.658	440.339	6.36	1.30	1.05	1
5169.531	1347.169	7.77	0.56	0.32	5						
5176.515	1348.989	8.54	0.92	0.63	5	7220.621	440.642	6.92	1.47	1.38	1
5177.519	1349.250	7.75	0.59	0.35	5	7221.640	440.704	6.85	1.43	1.36	1
						7451.965	454.760	6.82	1.41	1.09	1
5179.515	1349.771	8.49	0.95	0.68	5	7472.911	456.038	5.87	0.87	0.65	1
5201.492	1355.498	8.20	0.83	0.54	5	7515.822	458.657	6.85	1.45	1.41	1
5205.503	1356.543	8.25	0.84	0.58	5						
5208.544	1357.335	7.93	0.69	0.41	5	7521.854	459.025	5.91	0.85	0.63	1
5236.434	1364.604	8.37	0.89	0.61	5						
5238.476	1365.136	7.92	0.62	0.36	5	SU CYG					
5241.433	1365.906	8.56	0.95	0.67	5	J.D.	CYCLES	V	B-V	U-B	RF
5243.481	1366.440	8.09	0.77	0.49	5	3091.910	803.999	6.65	0.41		8
5246.430	1367.208	7.74	0.56	0.30	5	3092.944	804.268	6.86	0.58		8
5250.483	1368.265	7.80	0.61	0.35	5	3093.948	804.529	7.06	0.68		8
X	CYG					3094.943	804.788	7.14	0.67		8
J.D.	CYCLES	V	B-V	U-B	RF	3095.944	805.048	6.51	0.42		8
2757.930	168.304	6.31	1.24		8	3096.930	805.304	6.90	0.59		8
2758.781	168.356	6.40	1.31		8	3098.938	805.827	7.17	0.65		8
2766.882	168.850	6.59	1.24		8	3125.906	812.839	7.15	0.62		8
2768.771	168.966	6.11	0.87		8	3126.912	813.101	6.61	0.46		8
2771.882	169.155	6.14	1.03		8	3152.798	819.832	7.13	0.64		8
2772.865	169.215	6.19	1.12		8	3153.816	820.097	6.61	0.42		8
2773.795	169.272	6.24	1.20		8	3154.788	820.349	6.94	0.61		8
2774.854	169.337	6.37	1.29		8	3159.750	821.640	7.10	0.69		8
2776.983	169.467	6.58	1.42		8	5348.308	1390.737	7.21	0.69		7
						5349.271	1390.988	6.47	0.40		7

TABLE 1 (continued)

SU	CYG	CONT.				SZ	CYG	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5364.310	1394.898	6.77	0.55		7	6819.788	451.420	9.82	1.76	1.60	2
5365.324	1395.162	6.72	0.52		7	6833.791	452.347	9.80	1.81	1.67	2
7050.946	1833.479	7.07	0.72	0.30	1	6834.738	452.410	9.81	1.76	1.68	2
7052.887	1833.984	6.54	0.36	0.07	1	6849.730	453.402	9.80	1.78	1.73	2
7118.893	1851.148	6.69	0.54	0.23	1	6849.730	675.420	9.80	1.78	1.73	2
7148.846	1858.937	6.47	0.42	0.18	1	7190.676	475.971	9.25	1.54	1.37	1
7149.858	1859.200	6.77	0.58	0.25	1	7198.785	476.507	9.67	1.63	1.39	1
7178.700	1866.700	7.18	0.70	0.26	1	7203.742	476.835	9.09	1.36	1.05	1
7202.663	1872.931	6.51	0.42	0.23	1	7214.731	477.563	9.59	1.56	1.22	1
7203.715	1873.205	6.80	0.58	0.26	1	7220.656	477.955	9.26	1.54	1.33	1
7205.673	1873.714	7.18	0.71	0.26	1	7221.660	478.021	9.36	1.61	1.50	1
7213.691	1875.799	7.08	0.63	0.23	1	7233.715	478.819	9.02	1.33	1.07	1
7220.596	1877.594	7.17	0.70	0.27	1						
7451.933	1937.749	7.18	0.68	0.24	1						
7516.813	1954.620	7.22	0.73	0.29	1						
7522.827	1956.184	6.81	0.55	0.30	1	J.D.	CYCLES	V	B-V	U-B	RF
	SZ CYG										
	J.D.	CYCLES	V	B-V	U-B	RF					
6735.813	445.862	9.16	1.43		2	6748.870	458.848	8.85	1.57		2
6745.834	446.525	9.62	1.59		2	6749.884	458.917	8.99	1.66		2
6747.809	446.656	9.35	1.45		2	6757.805	459.455	10.03	2.20		2
6748.835	446.724	8.99	1.26		2	6758.801	459.523	10.01	2.17		2
6749.847	446.791	8.98	1.30		2	6759.831	459.593	9.92	2.11		2
6751.852	446.924	9.29	1.42		3	6760.894	459.665	9.80	2.03		2
6753.891	447.059	9.43	1.66		2	6767.788	460.134	9.41	1.96		2
6753.918	447.060	9.43	1.66		2	6774.803	460.611	9.89	2.02		3
6755.908	447.192	9.64	1.76		2	6777.860	460.819	9.20	1.69	1.15	3
6757.789	447.317	9.88	1.78		2	6784.778	461.289	9.65	2.10	1.57	-3
6759.784	447.449	9.78	1.73		2	6785.806	461.359	9.77	2.14	1.72	3
6767.772	447.977	9.33	1.57		2	6786.772	461.425	9.92	2.12		3
6773.790	448.376	9.85	1.81		3	6787.760	461.492	9.98	2.11		3
6774.730	448.438	9.84	1.76		3	6789.816	461.632	9.85	2.07		3
6775.759	448.506	9.64	1.59	1.33	-3	6791.831	461.769	9.66	1.83	1.47	3
6777.830	448.643	9.48	1.44	1.04	3	6792.755	461.831	9.03	1.61	1.21	3
6778.805	448.708	9.04	1.27	0.93	3	6793.748	461.899	8.91	1.59	1.18	3
6784.760	449.102	9.50	1.69	1.55	3	6793.885	461.908	8.98	1.67	1.26	2
6785.758	449.168	9.63	1.72		3	6805.712	462.712	9.73	1.91	1.55	3
6786.742	449.233	9.70	1.78	1.63	3	6806.729	462.782	9.61	1.85	1.41	3
6787.744	449.299	9.78	1.81		3	6806.802	462.787	9.57	1.87	1.50	2
6789.772	449.434	9.83	1.72	1.59	3	6807.825	462.856	8.82	1.54	1.17	2
6791.726	449.563	9.58	1.53	1.22	3	6808.737	462.918	8.99	1.66	1.22	3
6792.738	449.630	9.55	1.49	1.13	3	6809.723	462.985	9.15	1.75	1.34	3
6793.741	449.696	9.08	1.31	0.93	3	6810.732	463.054	9.25	1.85	1.37	3
6807.723	450.622	9.58	1.50	1.20	3	6811.727	463.121	9.38	1.91	1.44	3
6808.728	450.688	9.13	1.30	0.99	3	6812.723	463.189	9.47	1.98	1.65	3
6809.715	450.754	8.98	1.26	0.95	2	6813.724	463.257	9.62	2.01	1.78	3
6809.715	450.754	8.97	1.27	0.97	3	6816.894	463.473	9.94	2.22	2.01	2
6810.717	450.820	9.03	1.36	1.03	3	6817.714	463.528	10.04	2.12		3
6810.738	450.821	8.98	1.35	1.07	2	6853.683	465.974	9.12	1.73	1.32	2
6811.690	450.884	9.17	1.46	1.19	3	7190.695	488.887	8.78	1.56	1.20	1
6812.680	450.950	9.24	1.52	1.34	3	7239.678	492.217	9.49	2.04	1.74	1
6813.680	451.016	9.38	1.60	1.41	3	6731.892	334.414	10.45	1.96		2
6817.707	451.283	9.78	1.81	1.67	2	6735.899	334.613	9.82	1.54		2
6818.608	451.342	9.86	1.80	1.65	2	6741.751	334.904	9.89	1.75		2
6819.716	451.416	9.88	1.73	1.50	3						

TABLE I (continued)

VY CYG						VY CYG						CONT.				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF					
6744.897	335.060	10.11	1.92		2	6784.675	863.525	9.40	1.22	0.84	3					
6746.790	335.154	10.26	2.00		2	6785.841	863.673	9.44	1.26	0.90	3					
6748.848	335.257	10.46	2.06		2	6786.812	863.797	9.72	1.37	1.06	-3					
6749.864	335.307	10.48	2.07		2	6787.767	863.918	9.85	1.43	1.07	3					
6751.874	335.407	10.58	1.85		3	6789.824	864.180	9.83	1.35	1.04	3					
6753.931	335.509	10.29	1.82		2	6790.852	864.311	9.33	1.06	0.80	2					
6757.796	335.701	9.62	1.46		2	6791.712	864.420	9.27	1.16	0.82	3					
6758.793	335.751	9.69	1.55		2	6792.763	864.554	9.39	1.20	0.85	3					
6759.801	335.801	9.72	1.64		2	6796.749	865.061	10.03	1.48		2					
6760.880	335.854	9.83	1.71		2	6805.744	866.206	9.75	1.30	0.83	3					
6774.792	336.545	10.31	1.78		3	6806.737	866.333	9.23	1.05	0.81	3					
6777.850	336.697	9.54	1.47	1.06	3	6807.733	866.459	9.35	1.23	0.80	3					
6784.768	337.041	10.11	1.94		3	6808.743	866.588	9.34	1.21	0.83	3					
6785.782	337.091	10.16	1.95		3	6811.734	866.969	9.93	1.49	1.16	3					
6786.759	337.140	10.25	2.00		3	6812.731	867.096	10.01	1.47	1.16	3					
6787.752	337.189	10.35	1.98		3	6813.731	867.223	9.70	1.27	0.84	3					
6789.810	337.291	10.53	1.97		3	6814.752	867.353	9.22	1.06	0.80	3					
6790.948	337.348	10.54	2.01		2	6815.734	867.478	9.38	1.20	0.86	3					
6796.780	337.638	9.70	1.47	1.01	2	6816.718	867.603	9.35	1.20	0.85	3					
6810.725	338.330	10.55	1.98		3	6833.809	869.778	9.66	1.39	1.00	2					
6811.717	338.380	10.59	2.03		3	6834.766	869.900	9.80	1.43	1.21	2					
6811.927	338.390	10.48	1.96	1.74	2	6836.672	870.143	9.91	1.42	1.10	2					
6812.717	338.429	10.44	1.91		3	6845.676	871.289	9.39	1.13	0.75	3					
6813.717	338.479	10.34	1.79	1.28	3	6846.685	871.417	9.28	1.11	0.80	3					
6814.744	338.530	10.34	1.77	1.44	3	6847.758	871.554	9.40	1.21	0.88	3					
6815.727	338.579	10.20	1.70	1.27	3	7228.688	920.037	9.99	1.46	1.17	1					
6816.711	338.628	9.72	1.49	1.13	3	7241.710	921.694	9.50	1.28	0.94	1					
6817.683	338.676	9.55	1.45	1.03	3	VZ CYG										
6817.716	338.678	9.54	1.46	1.08	2	6841.729	1384.687	9.01	0.98		2					
6818.682	338.726	9.61	1.48	1.13	3	6849.721	1384.889	9.19	1.04		2					
6819.680	338.775	9.71	1.56	1.19	3	6853.608	1385.696	9.06	0.98		2					
6834.754	339.524	10.27	1.77	1.44	2	7190.712	915.203	9.71	1.30	0.90	1					
6841.729	339.871	9.83	1.67	1.55	3	7242.798	1386.094	9.27	1.03		2					
6849.738	340.268	10.47	2.00	1.83	2	6735.955	1384.955	9.01	0.98		2					
6853.676	340.464	10.34	1.83		2	6736.934	1384.889	9.19	1.04		2					
6857.602	340.659	9.60	1.47		2	6740.859	1385.696	9.06	0.98		2					
7190.685	357.205	10.34	2.00	1.92	1	6741.783	1385.885	9.19	1.05		2					
VY CYG						6745.884	1386.729	9.05	1.00		2					
J.D.	CYCLES	V	B-V	U-B	RF	6746.831	1386.923	9.20	1.05		2					
6735.910	857.318	9.29	1.04		2	6748.884	1387.345	8.60	0.72		2					
6736.892	857.443	9.44	1.06		2	6749.899	1387.554	8.85	0.89		2					
6742.773	858.192	9.88	1.35		2	6757.839	1389.186	9.07	0.91		2					
6744.905	858.463	9.36	1.17		2	6758.809	1389.385	8.68	0.75		2					
6745.866	858.585	9.37	1.21		2	6759.852	1389.600	8.93	0.95		2					
6746.819	858.707	9.57	1.30		2	6766.756	1391.019	9.26	1.05	0.75	3					
6748.864	858.967	9.91	1.48		2	6767.827	1391.239	8.78	0.79		2					
6749.874	859.095	9.99	1.45		2	6768.757	1391.430	8.70	0.81	0.60	3					
6753.939	859.613	9.35	1.24		2	6769.895	1391.664	8.94	0.97	0.61	3					
6767.835	861.381	9.21	1.09		2	6772.907	1392.284	8.66	0.75	0.50	3					
6771.755	861.880	9.91	1.39		3	6773.880	1392.484	8.75	0.87	0.57	3					
6772.868	862.022	9.98	1.50		3	6784.852	1394.739	9.04	1.03	0.70	3					
6773.858	862.148	9.90	1.40		3	6785.946	1394.964	9.25	1.08	0.76	3					
6774.819	862.270	9.43	1.16	0.76	3	6786.845	1395.149	9.15	0.99	0.64	3					
6777.888	862.661	9.42	1.22	0.82	3	6787.824	1395.350	8.63	0.71	0.50	3					

TABLE I (continued)

VZ	CYG	CONT.				BZ	CYG	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6792.797	1396.372	8.62	0.75	0.49	3	6795.772	670.099	10.03	1.52	1.07	2		
6793.805	1396.579	8.89	0.91	0.59	3	6805.703	671.079	10.05	1.53	0.99	3		
6805.773	1399.040	9.27	1.07	0.73	3	6812.709	671.769	10.43	1.68		3		
6806.783	1399.247	8.81	0.80	0.50	3	6813.708	671.868	10.23	1.57	1.06	3		
6806.807	1399.252	8.75	0.78	0.51	2	6814.737	671.969	10.08	1.48	1.08	3		
6808.799	1399.662	8.98	0.97	0.69	2	6815.720	672.066	10.06	1.50	1.15	3		
6809.771	1399.862	9.16	1.05	0.75	3	6816.703	672.163	10.02	1.49	1.15	3		
6810.777	1400.068	9.27	1.07	0.74	3	6834.747	673.943	10.04	1.49	1.18	2		
6810.799	1400.073	9.27	1.05	0.75	2	6841.705	674.629	10.54	1.75		3		
6811.750	1400.268	8.71	0.76	0.51	3	6844.731	674.927	10.11	1.53	1.17	3		
6811.802	1400.279	8.71	0.74	0.50	2	6845.648	675.017	10.02	1.48	1.21	3		
6812.751	1400.474	8.76	0.82	0.58	2	6846.678	675.119	10.05	1.51	1.15	3		
6815.674	1401.075	9.32	1.05	0.76	2	6847.750	675.225	10.05	1.55	1.13	-3		
6816.769	1401.300	8.63	0.74	0.52	3	6853.670	675.808	10.33	1.61	1.17	2		
6844.768	1407.056	9.28	1.09	0.75	3	6856.608	676.098	10.05	1.52		2		
6845.695	1407.246	8.83	0.80	0.49	3	7190.703	709.042	10.02	1.50	1.12	1		
6846.733	1407.460	8.74	0.81	0.58	3	7198.812	709.841	10.26	1.63	1.18	1		
6847.770	1407.673	9.00	0.97	0.65	3	7601.612	749.560	10.41	1.72	1.46	1		
6848.771	1407.879	9.20	1.05	0.74	3								
7228.712	1485.982	9.21	1.07	0.73	1								
7237.672	1487.824	9.14	1.04	0.71	1								
7239.695	1488.240	8.78	0.78	0.48	1								
BZ	CYG	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7241.721	1488.656	8.97	0.95	0.65	1	6731.884	394.338	8.63	1.25		2		
7251.658	1490.699	9.00	0.98	0.68	1	6735.801	394.568	9.09	1.54		2		
7472.942	1536.187	9.01	0.89	0.55	1	6740.783	394.860	9.56	1.64		2		
						6741.858	394.923	9.45	1.67		2		
						6742.745	394.975	9.38	1.46		2		
BZ	CYG	J.D.	CYCLES	V	B-V	U-B	RF						
6735.819	664.188	10.06	1.50			6744.851	395.098	9.06	1.30		2		
6736.883	664.293	10.14	1.60			6746.769	395.210	8.47	1.06		2		
6740.817	664.681	10.52	1.75			6747.797	395.271	8.52	1.13		2		
6741.805	664.778	10.39	1.71			6748.793	395.329	8.66	1.21		2		
6742.763	664.872	10.27	1.62			6749.823	395.389	8.73	1.30		2		
						6751.799	395.505	8.95	1.41	1.34	3		
						6752.803	395.564	9.01	1.53	1.42	3		
6744.881	665.081	10.06	1.53			6753.862	395.626	9.16	1.55		2		
6745.841	665.176	10.01	1.55			6755.894	395.745	9.38	1.67		2		
6746.783	665.269	10.13	1.60			6757.773	395.855	9.55	1.61		2		
6748.841	665.472	10.32	1.70			6758.759	395.913	9.51	1.56		2		
6749.854	665.572	10.43	1.75			6766.707	396.378	8.75	1.29	1.15	3		
						6767.753	396.440	8.84	1.38		2		
6751.863	665.770	10.52	1.60			6768.713	396.496	8.91	1.50	1.26	3		
6753.925	665.973	10.01	1.51			6769.859	396.563	8.99	1.55		3		
6755.915	666.169	10.00	1.51			6770.794	396.618	9.12	1.56		3		
6759.794	666.552	10.42	1.74			6771.726	396.672	9.30	1.67		3		
6760.851	666.656	10.54	1.75			6772.824	396.737	9.34	1.66		3		
						6772.848	396.738	9.36	1.64		3		
6761.858	666.755	10.46	1.69			6773.737	396.790	9.44	1.67		3		
6767.780	667.339	10.19	1.64			6774.771	396.851	9.48	1.64		3		
6773.804	667.933	10.07	1.57			6775.742	396.907	9.41	1.67		3		
6774.740	668.025	10.07	1.51			6777.799	397.028	9.23	1.44		3		
6777.839	668.331	10.16	1.61			6778.790	397.086	9.21	1.35	0.97	3		
						6779.883	397.794	9.45	1.64	1.53	2		
6778.830	668.429	10.26	1.67			6780.714	398.839	9.50	1.70	1.72	3		
6785.769	669.113	10.07	1.52	1.16	3	6786.759	398.139	8.46	0.99		2		
6786.748	669.210	9.99	1.54	0.95	3	6789.780	398.202	8.43	1.02	0.80	2		
6789.780	669.509	10.38	1.67			6790.841	398.839	9.50	1.70				
6790.841	669.613	10.47	1.75	1.38	2	6791.762	669.704	10.49	1.74				
6791.762	669.801	10.36	1.68			6792.746	669.801	10.36	1.68				

TABLE I (continued)

CD	CYG	CONT.				GH	CYG	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6810.683	398.954	9.41	1.55	1.32	3	5364.329	686.163	9.68	1.17		7
						6751.770	863.634	10.25	1.42		3
6913.668	399.129	8.65	1.03	0.80	3	6752.759	863.761	10.31	1.44		3
6813.703	399.131	8.57	1.04	0.77	2	6767.743	865.677	10.27	1.45		2
6814.730	399.191	8.44	1.03	0.78	3						
6815.689	399.248	8.50	1.07	0.81	3	6773.714	866.441	9.94	1.40	1.01	3
6816.670	399.305	8.59	1.16	0.90	3	6773.810	866.453	9.95	1.35	0.88	2
						6774.698	866.567	10.18	1.42	1.05	3
6817.674	399.364	8.69	1.27	1.02	3	6776.726	866.826	10.24	1.38		3
6833.784	400.307	8.57	1.19	0.91	2	6777.780	866.961	9.94	1.29	0.70	-3
6848.653	401.178	8.35	1.01	0.78	2						
6848.757	401.185	8.44	1.03	0.72	3	6778.741	867.084	9.54	1.13	0.71	3
6849.707	401.240	8.50	1.09	0.85	3	6781.889	867.487	10.02	1.43	1.03	2
						6785.705	867.975	9.84	1.25	0.84	3
7190.668	421.213	8.41	1.04	0.76	1	6786.703	868.102	9.58	1.15	0.82	3
7201.754	421.862	9.49	1.63	1.53	1	6787.694	868.229	9.72	1.26	0.86	3
7205.708	422.094	9.12	1.33	1.01	1						
7215.656	422.677	9.24	1.68	1.48	1	6790.873	868.636	10.17	1.46	0.98	2
7233.692	423.733	9.34	1.66	1.62	1	6791.754	868.749	10.32	1.42	1.01	3
7240.681	424.143	8.39	0.98	0.68	1	6792.700	868.870	10.20	1.36	0.81	3
7461.947	437.104	9.16	1.19	0.97	1	6793.696	868.997	9.77	1.20	0.80	3
7472.886	437.745	9.34	1.65	1.60	1	6793.823	869.013	9.65	1.16	0.62	2
7516.862	440.321	8.73	1.26	1.02	1						
						6794.748	869.131	9.60	1.14	0.80	2
	DT CYG					6795.738	869.258	9.72	1.26	0.76	2
						6796.770	869.390	9.80	1.30		2
J.D.	CYCLES	V	B-V	U-B	RF	6797.853	869.529	10.06	1.43		2
2772.872	1109.442	5.59	0.47		8	6806.676	870.657	10.26	1.44	1.09	3
2789.880	1116.247	5.73	0.51		8						
2791.889	1117.051	5.90	0.59		8	6806.756	870.667	10.24	1.44	1.01	2
2792.885	1117.449	5.59	0.47		8	6807.681	870.786	10.35	1.40	0.92	3
3093.917	1237.894	5.90	0.63		8	6807.803	870.801	10.28	1.41	0.94	2
						6808.672	870.913	10.09	1.30	0.90	3
						6808.733	870.920	10.06	1.31	0.89	2
3094.920	1238.295	5.71	0.51		8						
3095.908	1238.690	5.76	0.55		8	6809.652	871.038	9.61	1.12	0.79	3
3096.903	1239.088	5.93	0.57		8	6810.651	871.166	9.68	1.18	0.87	3
3098.897	1239.886	5.92	0.64		8	6810.684	871.170	9.67	1.19	0.93	2
3136.754	1255.033	5.91	0.59		8	6811.664	871.295	9.76	1.24	0.85	3
						6811.759	871.307	9.75	1.25	0.88	2
3154.851	1262.274	5.73	0.50		8	6812.648	871.421	9.90	1.35	0.89	3
3179.689	1272.212	5.78	0.52		8	6815.681	871.809	10.31	1.44	1.00	2
7131.928	2853.524	5.72	0.54	0.29	1	6816.720	871.942	9.96	1.29	0.83	2
7142.878	2857.906	5.89	0.62	0.32	1	6817.647	872.061	9.58	1.09	0.77	3
7143.906	2858.317	5.70	0.52	0.26	1	6817.861	872.088	9.53	1.13	0.78	2
7144.869	2858.702	5.76	0.53	0.31	1	6818.691	872.194	9.72	1.21	0.85	2
7147.885	2859.909	5.89	0.63	0.31	1	6833.777	874.124	9.55	1.17	0.83	2
7160.748	2865.056	5.91	0.61	0.30	1	6845.644	875.642	10.19	1.43	1.05	2
7162.773	2865.866	5.78	0.59	0.28	1	6846.619	875.766	10.27	1.42	1.08	2
7178.825	2872.288	5.69	0.52	0.24	1	6846.637	875.769	10.33	1.47	1.12	3
7178.825	2872.288	5.69	0.51	0.24	1						
7183.782	2874.272	5.68	0.51	0.30	1	6848.678	876.030	9.64	1.14	0.83	3
7189.715	2876.645	5.70	0.52	0.32	1	6852.731	876.548	10.00	1.43	0.97	2
7191.746	2877.458	5.64	0.48	0.30	1	6853.718	876.674	10.22	1.48	1.06	2
7213.705	2886.244	5.77	0.52	0.26	1	6856.596	877.043	9.60	1.11		2
7214.690	2886.638	5.76	0.53	0.29	1						
7215.670	2887.030	5.90	0.63	0.31	1	7191.698	229.742	13.76	1.18	0.78	1
7220.633	2889.016	5.93	0.61	0.34	1	7202.681	230.093	13.06	1.12	0.88	1
7221.674	2889.432	5.64	0.48	0.25	1	7472.862	238.724	13.34	0.96	0.73	1
7515.855	3007.136	5.86	0.56	0.36	1	7593.654	242.582	13.40	1.10		1
						7601.598	242.836	13.10	0.89	0.62	1
GH	CYG					IU	CYG				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5363.323	686.035	9.60	1.10		-7						

TABLE 1 (continued)

IU	CYG	CONT.				MZ	CYG	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7621.673	243.478	13.65	1.50	1.35	1	6808.762	321.047	11.32	1.01	0.96	2
7625.665	243.605	13.91	1.31	0.12	1	6810.748	321.141	11.40	1.16	1.28	2
7635.580	243.922	12.86	0.95	0.64	1	6811.780	321.189	11.39	1.17	1.06	2
MW CYG						6812.745	321.235	11.51	1.23	1.18	2
J.D.						6813.712	321.280	11.67	1.33	1.42	2
6751.845	1133.872	9.72	1.43		3	6814.770	321.330	11.81	1.36	1.48	2
6752.824	1134.036	9.86	1.50		3	6815.790	321.378	11.97	1.31	1.41	2
6773.781	1137.556	9.31	1.33	1.04	3	6816.753	321.424	12.31	1.36	1.30	2
6774.721	1137.714	9.56	1.44		3	6817.724	321.469	12.55	1.31	1.39	2
6777.806	1138.232	9.55	1.38	0.93	3	6818.721	321.517	12.55	1.41	1.03	2
6778.798	1138.398	9.16	1.21	0.82	3	6819.668	321.561	12.71	1.19	1.19	2
6781.899	1138.919	9.70	1.56	1.21	2	6820.695	321.610	12.63	1.11	1.28	2
6785.751	1139.566	9.38	1.35	1.03	3	6833.694	322.223	11.44	1.15	0.83	2
6787.736	1139.899	9.69	1.51	1.21	3	6834.773	322.273	11.53	1.08	0.81	2
6793.904	1140.935	9.79	1.55	1.21	2	6836.682	322.363	11.81	1.19	1.30	2
6795.780	1141.250	9.47	1.35	0.88	2	6845.702	322.789	11.09	0.59	0.41	2
6796.780	1141.418	9.18	1.23		2	6849.748	322.979	11.19	0.83	0.66	2
6797.875	1141.602	9.40	1.40		2	6852.712	323.119	11.25	1.07	0.86	2
6806.691	1143.083	9.87	1.57	1.16	3	6853.632	323.163	11.37	1.06		2
6806.774	1143.097	9.87	1.55	1.21	2	6856.642	323.305	11.60	1.20		2
6807.715	1143.255	9.49	1.31	0.96	3	6857.643	323.352	11.85	1.30		2
6807.813	1143.271	9.43	1.28	0.84	2	6858.720	323.403	12.00	1.22		2
6808.720	1143.423	9.20	1.20	0.86	3	7228.702	340.848	11.00	0.55	0.36	1
6808.755	1143.429	9.21	1.22	1.00	2	7515.876	354.389	10.91	1.17	1.16	1
6809.708	1143.589	9.41	1.36	0.99	2	383 CYG					
6809.708	1143.589	9.40	1.33	0.98	3	J.D.	CYCLES	V	B-V	U-B	RF
6810.698	1143.756	9.53	1.45	1.13	2	6741.777	1461.724	10.94	1.61		2
6810.710	1143.758	9.54	1.45	1.10	3	6744.866	1462.393	10.66	1.42		2
6811.772	1143.936	9.84	1.53	1.19	2	6745.826	1462.601	10.80	1.57		2
6812.672	1144.087	9.88	1.53	1.24	3	6746.777	1462.808	11.02	1.70		2
6812.728	1144.096	9.85	1.55	1.20	2	6753.876	1464.347	10.55	1.43		2
6813.675	1144.255	9.52	1.31	0.91	3	6755.901	1464.786	11.00	1.61		2
6816.677	1144.760	9.55	1.42	1.11	3	6757.779	1465.193	10.97	1.64		2
6819.709	1145.269	9.48	1.31	0.94	3	6757.949	1465.230	10.76	1.54		2
6834.723	1147.790	9.54	1.46	1.20	2	6758.784	1465.411	10.68	1.48		2
6841.698	1148.962	9.83	1.54	1.11	3	6759.777	1465.626	10.81	1.66		2
6844.724	1149.470	9.25	1.29	0.89	3	6760.841	1465.857	11.06	1.70		2
6845.680	1149.630	9.40	1.39	1.10	2	6761.818	1466.069	11.14	1.70		2
6846.717	1149.804	9.52	1.46	1.20	2	6767.761	1467.357	10.63	1.43		2
6849.713	1150.308	9.31	1.20	0.89	3	6790.922	1472.379	10.58	1.46	1.10	2
6852.642	1150.799	9.52	1.48	1.11	2	6793.865	1473.017	11.10	1.72	1.25	2
6853.627	1150.965	9.78	1.51	1.18	2	6794.801	1473.220	10.80	1.62	1.07	2
6856.635	1151.470	9.21	1.25		2	6834.731	1481.877	11.06	1.73	1.08	2
6857.633	1151.638	9.43	1.43		2	6836.665	1482.297	10.66	1.53	1.16	2
6858.712	1151.819	9.55	1.47		2	6846.680	1484.468	10.64	1.54	1.17	2
MZ CYG						6853.721	1485.995	11.08	1.66		2
J.D.	CYCLES	V	B-V	U-B	RF	7215.654	1564.467	10.71	1.52	1.03	1
6742.792	317.936	12.64	1.12		2	7222.710	1565.997	11.14	1.73	1.33	1
6781.929	319.782	11.10	0.65	0.47	2	7233.668	1568.373	10.59	1.50	1.01	1
6793.921	320.347	11.72	1.10	1.01	2	7239.661	1569.673	10.90	1.67	1.24	1
6796.790	320.482	11.47	1.12		2	386 CYG					
6797.885	320.534	11.75	1.33		2	J.D.	CYCLES	V	B-V	U-B	RF
6806.787	320.954	11.24	0.88	0.69	2	6735.928	1281.277	9.32	1.42		2
6807.859	321.004	11.20	0.98	0.70	2						

TABLE 1 (continued)

386	CYG	CONT.				402	CYG	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6736.905	1281.463	9.51	1.50		2	7143.862	1636.661	10.01	1.16	0.82	1
6741.764	1282.387	9.36	1.44		2	7144.841	1636.885	10.10	1.13	0.83	1
6742.784	1282.581	9.60	1.62		2	7147.849	1637.575	9.93	1.14	0.78	1
6744.915	1282.986	9.97	1.74		2	7160.703	1640.519	9.89	1.10	0.75	1
6745.871	1283.168	9.72	1.61		2	7183.724	1645.794	10.10	1.18	0.79	1
6746.824	1283.349	9.28	1.42		2	7201.765	1649.927	10.09	1.14	0.81	1
6747.878	1283.550	9.73	1.69		2	7202.738	1650.150	9.57	0.89	0.57	1
6749.892	1283.933	9.90	1.73		2	7203.729	1650.377	9.76	1.02	0.68	1
6755.935	1285.082	9.95	1.69		2	7205.718	1650.832	10.05	1.17	0.83	1
6757.819	1285.441	9.46	1.49		2	7241.678	1659.071	9.78	0.95	0.65	1
6759.846	1285.826	9.83	1.69		2	7462.939	1709.762	10.06	1.17	0.84	1
6760.805	1286.009	9.97	1.73		2	7472.894	1712.042	9.83	1.01	0.69	1
6767.797	1287.339	9.30	1.41		2		459 CYG				
6774.865	1288.683	9.67	1.68		3						
6777.906	1289.262	9.35	1.40		3		J.D.	CYCLES	V	B-V	U-B
6784.832	1290.579	9.56	1.58	1.14	3	6777.895	934.766	10.93	1.68		3
6785.911	1290.784	9.78	1.68	1.29	3	6784.789	935.717	11.01	1.69		3
6786.820	1290.957	9.94	1.69	1.17	3	6785.849	935.863	10.71	1.32	1.01	3
6787.801	1291.144	9.80	1.59	1.28	3	6786.783	935.992	10.29	1.32	0.95	3
6789.881	1291.539	9.48	1.55	1.08	-3	6787.793	936.131	10.42	1.42	0.94	-3
6792.770	1292.089	9.92	1.70	1.16	3	6789.830	936.412	10.73	1.56	1.25	3
6793.764	1292.278	9.28	1.39	0.95	3	6791.839	936.689	10.98	1.71		3
6793.892	1292.302	9.30	1.43	0.98	2	6793.756	936.954	10.31	1.33	0.88	3
6805.760	1294.560	9.57	1.56	1.16	3	6805.751	938.608	10.94	1.64		3
6807.832	1294.954	9.89	1.71	1.35	2	6808.775	939.025	10.30	1.30	0.93	3
6809.738	1295.317	9.27	1.39	1.04	3	6809.729	939.156	10.52	1.38	1.11	3
6812.738	1295.887	9.88	1.70	1.40	3	6810.740	939.296	10.49	1.51	1.01	3
6815.742	1296.459	9.44	1.49	1.06	3	6816.724	940.121	10.44	1.40	1.07	3
6816.732	1296.647	9.66	1.61	1.24	3	6817.723	940.259	10.56	1.49	1.21	3
6818.689	1297.019	9.96	1.72	1.20	3		532 CYG				
6819.724	1297.216	9.56	1.49	1.00	3		J.D.	CYCLES	V	B-V	U-B
6841.738	1301.403	9.34	1.44	1.08	3	6751.882	2056.258	8.97	0.96	0.75	3
6846.691	1302.346	9.28	1.40	0.99	3	6766.742	2060.784	9.22	1.15	0.79	3
6853.688	1303.677	9.67	1.63	1.26	2	6768.743	2061.393	8.95	1.02		3
7190.735	1367.788	9.77	1.67	1.30	1	6769.883	2061.740	9.15	1.13		3
7214.740	1372.354	9.28	1.40	1.00	1	6772.879	2062.653	9.17	1.05	0.73	3
7215.677	1372.532	9.52	1.55	1.08	1	6773.869	2062.954	9.22	1.13	0.79	3
7220.641	1373.477	9.44	1.47	1.13	1	6777.917	2064.187	9.00	1.06	0.74	3
7222.696	1373.867	9.92	1.68	1.24	1	6785.919	2066.624	9.15	1.14	0.77	3
	402 CYG					6786.829	2066.901	9.26	1.14	0.77	3
	J.D.	CYCLES	V	B-V	RF	6787.808	2067.199	9.01	1.03	0.70	3
6751.808	1546.841	10.14	1.15	0.89	3	6791.719	2068.390	8.97	1.02	0.73	3
6752.812	1547.071	9.87	0.89	0.66	3	6793.790	2069.021	9.17	1.12	0.75	3
6766.720	1550.258	9.66	0.99	0.59	3	6806.745	2072.967	9.22	1.14	0.75	3
6768.725	1550.717	10.17	1.11	0.81	3	6807.739	2073.269	8.94	1.01	0.70	3
6769.872	1550.980	10.18	0.88		3	6811.741	2074.488	9.00	1.05	0.73	3
6770.806	1551.194	9.61	0.84	0.55	3	6812.767	2074.800	9.24	1.17	0.77	3
6771.740	1551.408	9.90	1.03	0.64	3	6813.739	2075.097	9.12	1.08	0.71	3
6772.858	1551.664	10.13	1.11	0.75	3	6814.759	2075.407	8.96	1.02	0.82	3
6773.746	1551.867	10.22	1.11	0.82	3	6816.760	2076.017	9.20	1.10	0.71	3
6774.780	1552.104	9.76	0.86	0.60	3	6817.731	2076.312	8.95	1.00	0.70	3
6775.750	1552.327	9.75	0.98	0.67	3	6818.722	2076.614	9.13	1.10	0.76	3
7142.822	1636.423	9.79	1.05	0.71	1	6819.731	2076.921	9.26	1.16	0.78	3
						6845.682	2084.825	9.26	1.16	0.81	3
						6846.697	2085.134	9.07	1.06	0.69	3

TABLE 1 (continued)

532 CYG						CONT.						TX DEL											
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF						
6847.763	2085.458	8.98	1.04	0.70	3	7521.845	1219.772	8.96	0.65	0.53	1	6848.765	2085.764	9.24	1.17	0.75	3	7542.737	1223.160	9.36	0.95	0.82	1
538 CYG																							
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF						
6777.939	1107.727	10.41	1.34		3	4419.030	448.981	3.43	0.60			6784.841	1108.855	10.51	1.38		3	4420.080	449.088	3.58	0.73		
6785.938	1109.035	10.68	1.37		3	4422.044	449.287	3.83	0.88			6786.835	1109.181	10.69	1.40	1.04	3	4433.031	450.404	3.97	1.01		
6787.814	1109.341	10.39	1.26	0.84	3	4434.050	450.507	4.09	0.98			6789.933	1109.687	10.40	1.30		3	4438.008	450.909	3.60	0.67		
6791.848	1110.000	10.65	1.40	1.09	3	4438.960	451.006	3.44	0.65			6793.797	1110.319	10.46	1.23	0.79	3	4442.963	451.413	4.01	1.01		
6805.767	1112.275	10.54	1.33	0.79	3	4449.958	452.124	3.59	0.76			6806.751	1112.436	10.20	1.18	0.80	3	4451.009	452.230	3.73	0.84		
6807.746	1112.599	10.30	1.25	0.92	3	4451.957	452.327	3.87	0.93			6809.762	1112.928	10.57	1.45	1.08	3	4462.974	453.446	4.04	0.96		
6810.769	1113.093	10.70	1.48	1.18	3	4463.994	453.550	4.06	1.01			6812.774	1113.420	10.25	1.20	0.83	3	4700.158	477.544	4.08	0.96		
6813.767	1113.583	10.31	1.24	0.91	3	4705.147	478.051	3.52	0.71			6818.729	1114.394	10.30	1.18	0.87	3	4820.003	489.721	3.82	0.80		
6819.738	1114.559	10.29	1.21	0.88	3	4826.083	490.339	3.90	0.92			6841.748	1118.156	10.74	1.53		3	4828.917	490.626	3.97	0.89		
6844.740	1118.645	10.35	1.29	0.92	-3	4829.985	490.735	3.79	0.79			6845.688	1118.800	10.51	1.34	0.91	3	4834.016	491.145	3.62	0.77		
6846.703	1118.965	10.59	1.45	1.03	3	4840.981	491.852	3.62	0.78			6849.728	1119.460	10.23	1.15	0.80	3	4844.952	492.256	3.74	0.88		
TX DEL						4847.942	492.559	4.04	1.00			4855.936	493.372	3.95	0.94			5167.256	525.002	3.55	0.67	0.36	5
J.D.	CYCLES	V	B-V	U-B	RF	5169.261	525.206	3.69	0.84	0.62	5	5176.252	525.916	3.60	0.72	0.49	5	5177.248	526.018	3.45	0.67	0.42	5
5343.358	866.500	9.12	0.68		7	5187.237	527.032	3.48	0.69	0.47	5	5665.464	918.734	8.92	0.60		7	5195.233	527.845	3.62	0.73	0.49	5
5643.447	915.164	9.40	0.95		7	5195.260	527.848	3.63	0.73	0.49	5	5668.513	919.228	9.49	0.98		7	5201.219	528.453	4.02	1.01	0.80	5
5654.460	916.949	9.11	0.76		7	5208.216	529.164	3.62	0.81	0.59	5	5682.448	921.488	9.11	0.69		7	5209.215	529.265	3.76	0.89	0.68	5
5683.442	921.649	8.85	0.55		7	5238.202	532.211	3.67	0.84	0.63	5	5688.373	922.449	9.31	0.80		7	5239.194	532.311	3.81	0.93	0.71	5
5689.366	922.610	8.99	0.52		7	5240.194	532.413	3.98	1.01	0.79	5	7142.845	1158.312	9.49	0.98	0.86	1	5242.193	532.616	3.99	0.91	0.68	5
7147.871	1159.127	9.30	0.94	0.78	1	5243.195	532.718	3.80	0.80	0.55	5	7160.722	1161.211	9.41	0.96	0.82	1	5244.196	532.820	3.66	0.73	0.49	5
7162.764	1161.542	8.94	0.64	0.45	1	5245.192	532.921	3.59	0.70	0.47	5	7183.761	1164.947	9.07	0.78	0.59	1	5246.193	533.022	3.45	0.67	0.44	5
7198.826	1167.390	9.44	0.91	0.86	1	5247.200	533.125	3.59	0.77	0.55	5	7206.741	1168.673	8.86	0.58	0.45	1	5256.196	534.039	3.48	0.69	0.46	5
7226.680	1171.907	9.06	0.74	0.58	1	5547.232	563.609	4.03	0.88		7	7229.677	1172.393	9.46	0.88	0.87	1	5548.249	563.712	3.82	0.81		7
7233.635	1173.035	9.19	0.85	0.70	1	5555.228	564.421	4.03	1.00			7237.651	1173.686	8.87	0.56	0.44	1	5568.229	565.742	3.77	0.76		7
7239.623	1174.006	9.15	0.82	0.68	1	5569.228	565.843	3.65	0.70			7240.670	1174.175	9.36	0.94	0.82	1	5573.236	566.251	3.74	0.86		7
7472.918	1211.838	9.00	0.70	0.56	1	5580.218	566.960	3.45	0.62			7515.837	1218.798	8.97	0.63	0.57	1						7

TABLE I (continued)

$\beta$	DOR	HD	37350	CONT.	$\zeta$	GEM	HD	52973	CONT.		
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5608.204	569.803	3.64	0.71		7	4427.643	436.067	3.71	0.75	0.53	16
5612.185	570.208	3.66	0.81		7	4427.758	436.078	3.72	0.76	0.54	16
	UY ERI					4428.807	436.181	3.83	0.86	0.62	16
						4439.742	437.258	3.95	0.90		16
J.D.	CYCLES	V	B-V	U-B	RF	4440.658	437.349	4.08	0.96		16
						4441.619	437.443	4.15	0.98		16
6817.951	3080.558	11.35	0.46	0.23	3	4442.615	437.541	4.13	0.93		16
6818.927	3080.999	11.49	0.50	0.12	3	4443.622	437.641	3.98	0.84		16
6819.987	3081.478	11.25	0.51	0.15	3	7240.896	713.268	3.85	0.88	0.65	1
6844.919	3092.743	11.47	0.55	0.13	3	7273.899	716.519	4.12	0.98	0.78	1
6845.903	3093.187	10.96	0.38	0.10	3						
6846.902	3093.639	11.42	0.57	0.07	3						
6847.936	3094.106	11.13	0.43		3						
6848.904	3094.543	11.32	0.53	0.19	3	J.D.	CYCLES	V	B-V	U-B	RF
6849.924	3095.004	11.47	0.54	0.09	3	4785.314	604.613	6.93	0.88		7
7222.757	3263.462	11.27	0.47	0.12	1	5166.297	652.750	6.57	0.80	0.52	5
7668.701	3464.953	11.58	0.51	0.11	1	5167.320	652.879	6.75	0.92	0.63	5
	$\zeta$ GEM	HD 52973				5169.300	653.129	7.04	1.07	0.76	5
						5176.299	654.013	6.79	0.94	0.63	5
J.D.	CYCLES	V	B-V	U-B	RF	5177.285	654.138	7.06	1.08	0.78	5
2841.971	279.898	3.81	0.71		8	5201.250	657.166	7.07	1.09	0.79	5
2848.955	280.586	4.08	0.97		8	5535.304	699.373	7.37	1.18		7
2860.958	281.768	3.91	0.81		8	5555.319	701.902	6.85	0.90		-7
2865.035	282.170	3.95	0.84		8	5568.289	703.540	7.17	0.98		7
2882.875	283.927	3.78	0.72		8	5573.281	704.171	7.11	1.10		7
2883.863	284.024	3.80	0.73		8	5580.255	705.052	6.90	0.97		7
2885.881	284.223	4.00	0.86		8	5595.219	706.943	6.72	0.84		-7
2887.870	284.419	4.22	1.03		8	7014.705	886.292	7.28	1.14	0.88	1
3217.017	316.835	3.86	0.73		8	7015.604	886.405	7.38	1.14	0.84	1
3233.930	318.501	4.16	1.02		8	7020.626	887.040	6.95	1.00	0.66	1
3238.951	318.996	3.81	0.70		8	7022.615	887.291	7.29	1.13	0.85	1
4401.696	433.511	4.15	0.96	0.74	16	7023.656	887.423	7.38	1.12	0.83	1
4402.704	433.611	4.02	0.86	0.62	16	7024.604	887.542	7.03	0.90	0.55	1
4403.838	433.722	3.89	0.77	0.53	16	7045.622	890.198	6.99	0.92	0.61	1
4404.686	433.806	3.79	0.72	0.52	16	7049.650	890.707	6.61	0.70	0.55	1
4407.773	434.110	3.75	0.79	0.57	16	7240.887	914.869	6.78	0.91	0.56	1
4409.801	434.310	4.03	0.93	0.75	16	7273.894	919.039	6.97	1.02	0.63	1
4410.650	434.393	4.11	0.98	0.79	16	7597.860	959.972	6.77	0.91	0.63	1
4410.773	434.405	4.12	0.98	0.80	16	7601.843	960.475	7.24	1.06	0.74	1
4411.809	434.507	4.16	0.95	0.75	16	7619.933	962.761	6.72	0.83	0.56	1
4412.667	434.592	4.07	0.87	0.65	16	7623.887	963.260	7.23	1.18	0.90	1
4412.773	434.602	4.04	0.86	0.64	16	7635.858	964.773	6.78	0.87	0.59	1
4413.633	434.687	3.93	0.81	0.55	16	7647.777	966.279	7.37	1.10	0.89	1
4415.663	434.887	3.73	0.70	0.50	16	7648.878	966.418	7.38	1.12	0.82	1
4415.779	434.898	3.72	0.69	0.50	16	7649.869	966.543	7.08	0.93	0.57	1
4416.778	434.997	3.67	0.69	0.46	16	7653.783	967.038	6.99	1.00	0.69	1
4416.778	434.997	3.68	0.70	0.48	16	7660.796	967.924	6.76	0.88	0.57	1
4418.662	435.182	3.82	0.85	0.61	16	7663.746	968.296	7.32	1.15	0.90	1
4419.609	435.276	3.98	0.92	0.71	16						
4419.688	435.283	3.99	0.92	0.73	16	RZ GEM					
4420.585	435.372	4.10	0.97	0.78	16	J.D.	CYCLES	V	B-V	U-B	RF
4420.690	435.382	4.11	0.98	0.78	16	6812.972	1232.085	10.27	1.25	0.72	2
4421.567	435.468	4.16	0.97	0.78	16	6813.948	1232.261	10.33	1.23	0.72	2
4421.744	435.486	4.16	0.97	0.77	16	6814.953	1232.443	9.70	0.93	0.55	2
4423.747	435.683	3.95	0.81	0.55	16	6815.953	1232.624	9.67	0.97	0.62	2
4427.566	436.059	3.71	0.75	0.52	16	6816.962	1232.806	9.97	1.07	0.68	2

TABLE I (continued)

RZ	GEM	CONT.					AD	GEM				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	
6817.967	1232.988	10.19	1.19	0.64	2	6813.984	1798.820	9.94	0.84	0.49	2	
6818.934	1233.163	10.33	1.26	0.67	2	6814.981	1799.083	10.16	0.86	0.48	2	
6819.934	1233.344	10.32	1.19	0.62	2	6817.991	1799.878	10.06	0.83	0.43	2	
6833.967	1235.881	10.09	1.17	0.70	2	6819.957	1800.397	9.52	0.55	0.31	2	
6834.951	1236.059	10.22	1.22	0.73	2	6833.990	1804.101	10.15	0.83	0.51	2	
6836.984	1236.427	9.78	0.99	0.64	2	6834.972	1804.361	9.54	0.53	0.32	2	
6849.906	1238.764	9.91	1.09	0.68	2	6852.986	1809.116	10.14	0.84	0.50	2	
6852.952	1239.315	10.31	1.19	0.78	2	6853.970	1809.376	9.53	0.51		2	
6856.937	1240.035	10.25	1.19			6856.961	1810.165	10.12	0.79		2	
6857.891	1240.208	10.38	1.25			6857.910	1810.416	9.54	0.55		2	
6858.949	1240.399	9.98	1.07			6858.974	1810.697	9.88	0.77		2	
7593.974	1373.324	10.39	1.21	0.74	1	7597.908	2005.768	9.93	0.80	0.46	1	
7597.854	1374.026	10.23	1.22	0.80	1	7619.942	2011.585	9.75	0.71	0.40	1	
7601.794	1374.738	9.88	1.09	0.69	1	7635.867	2015.788	10.00	0.84	0.50	1	
7619.867	1378.007	10.19	1.23	0.79	1	7647.784	2018.934	10.04	0.82	0.47	1	
7623.825	1378.722	9.82	1.06	0.46	1	7648.885	2019.225	9.91	0.71	0.39	1	
7634.929	1380.731	9.87	1.09	0.68	1	7649.876	2019.487	9.68	0.60	0.35	1	
7635.803	1380.889	10.16	1.22	0.76	1	7653.792	2020.520	9.69	0.61	0.38	1	
7645.848	1382.705	9.83	1.06	0.68	1	7660.802	2022.371	9.49	0.52	0.31	1	
7647.726	1383.045	10.23	1.20	0.78	1	7661.717	2022.612	9.79	0.72	0.40	1	
7649.793	1383.419	9.82	0.98	0.61	1	7663.751	2023.150	10.11	0.79	0.46	1	
7653.775	1384.139	10.32	1.23	0.79	1		BB GEM					
7660.695	1385.390	10.01	1.05	0.62	1		J.D.	CYCLES	V	B-V	U-B	RF
7661.661	1385.565	9.58	0.91	0.65	1		6846.004	2965.924	11.61	1.02	0.79	3
7663.701	1385.934	10.13	1.19	0.78	1		6847.005	2966.357	10.83	0.59	0.48	3
	AA GEM						6849.007	2967.225	11.68	0.90		3
J.D.	CYCLES	V	B-V	U-B	RF		6850.008	2967.658	11.30	0.92	0.48	3
							AP HER					
6812.987	602.794	9.79	1.26	0.91	2	J.D.	CYCLES	V	B-V	U-B	RF	
6813.960	602.880	9.89	1.26	0.98	2	5315.435	510.511	10.41	0.67		7	
6814.966	602.969	10.03	1.35	0.83	2	5358.296	514.627	10.59	0.78		7	
6816.972	603.146	9.88	1.12	0.76	2	5626.455	540.382	10.58	0.63		7	
6817.974	603.235	9.79	1.08	0.67	2	5627.478	540.480	10.38	0.63		7	
6818.945	603.321	9.72	1.08	0.51	2	5636.483	541.345	10.71	0.69		7	
6819.942	603.409	9.47	0.94	0.54	2	5637.447	541.438	10.42	0.58		7	
6833.974	604.651	9.58	1.13	0.79	2	5646.460	542.303	10.93	0.74		7	
6834.959	604.738	9.66	1.21	0.87	2	5667.410	546.236	9.34	1.01		-7	
6852.966	606.331	9.70	1.05	0.69	2	5688.281	546.320	10.69	0.72		7	
6853.953	606.418	9.47	0.88			6781.829	651.347	10.89	0.90		2	
6856.943	606.683	9.61	1.12									
6857.882	606.766	9.73	1.20									
6858.959	606.861	9.83	1.28									
7597.849	672.236	9.74	1.07	0.73	1							
7601.799	672.586	9.45	1.02	0.72	1							
7619.887	674.186	9.74	1.15	0.78	1							
7623.842	674.536	9.39	0.92	0.75	1							
7626.859	674.803	9.81	1.30	0.93	1							
7634.949	675.519	9.40	0.98	0.68	1							
7635.824	675.596	9.53	1.07	0.75	1							
7645.876	676.486	9.41	0.94	0.60	1							
7647.738	676.650	9.57	1.16	0.77	1							
7656.716	677.445	9.42	0.92	0.61	1							
7660.713	677.798	9.74	1.23	0.97	1							
7663.713	678.064	10.00	1.25	1.02	1							

TABLE I (continued)

AP	HER	CONT.				BL	HER	CONT.				
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B
6818.680	654.887	10.74	0.65	0.45	2		4567.908	3493.692	9.95	0.31		9
6819.677	654.982	10.46	0.63	0.46	2		4570.828	3495.925	10.04	0.42		9
							4574.809	3498.670	10.06	0.39		9
BB HER							4899.796	3747.531	10.58	0.51	0.22	11
							4899.803	3747.537	10.57	0.53	0.20	11
J.D.	CYCLES	V	B-V	U-B	RF		4899.815	3747.546	10.55	0.52	0.18	11
							4899.823	3747.552	10.55	0.50	0.20	11
3087.889	411.324	10.32	1.18		9		4899.834	3747.560	10.48	0.52	0.11	11
3091.840	411.850	9.80	0.89		9		4899.842	3747.567	10.44	0.49	0.12	11
3093.816	412.113	10.03	0.94		9		4899.854	3747.576	10.41	0.45	0.16	11
3094.868	412.253	10.15	1.18		9		4899.862	3747.582	10.39	0.46	0.18	11
3095.785	412.376	10.34	1.24		9		4899.874	3747.591	10.39	0.46	0.18	11
3096.764	412.506	10.43	1.22		9		4899.881	3747.596	10.38	0.45	0.18	11
3098.813	412.779	9.78	0.82		9		4899.893	3747.605	10.34	0.43	0.20	11
3116.767	415.170	9.99	1.07		9		4899.900	3747.611	10.32	0.42	0.20	11
3119.771	415.571	10.28	1.18		9		4899.913	3747.620	10.26	0.41	0.17	11
3122.757	415.968	9.94	0.99		9		4900.760	3748.269	10.43	0.59	0.24	11
4574.885	609.400	10.42	1.20		9		4900.768	3748.275	10.44	0.57	0.28	11
5328.380	709.769	9.97	0.97		7		4900.780	3748.284	10.46	0.57	0.29	11
5359.246	713.881	9.80	0.92		7		4900.788	3748.290	10.48	0.55	0.34	11
5364.266	714.550	10.46	1.27		7		4900.801	3748.300	10.47	0.57	0.31	11
5365.284	714.685	10.20	1.09		7		4900.808	3748.306	10.49	0.57	0.29	11
5629.527	749.884	9.82	0.90		7		4900.848	3748.336	10.53	0.57	0.32	11
5630.527	750.017	9.94	1.01		7		4901.731	3749.012	10.07	0.44	0.26	11
5636.476	750.809	9.85	0.92		7		4901.738	3749.017	10.08	0.44	0.25	11
7022.974	935.499	10.36	1.27	1.03	1		4901.749	3749.025	10.10	0.43	0.25	11
7048.951	938.959	9.84	0.97	0.66	1		4901.756	3749.031	10.11	0.44	0.24	11
7050.938	939.223	10.07	1.14	0.84	1		4902.775	3749.810	9.95	0.32	0.27	11
7054.835	939.743	10.24	1.05	0.72	1		4902.783	3749.816	9.96	0.31	0.24	11
7200.730	959.177	9.96	1.07	0.81	1		4902.820	3749.844	10.00	0.35	0.21	11
7203.647	959.565	10.40	1.26	0.99	1		4902.828	3749.850	10.00	0.37	0.20	11
7458.914	993.568	10.43	1.30	1.12	1		4903.854	3750.635	10.15	0.37	0.19	11
7469.816	995.020	9.95	1.01	0.75	1		4903.860	3750.639	10.11	0.36	0.18	11
7472.803	995.418	10.27	1.24	1.02	1		4903.865	3750.644	10.07	0.34	0.18	11
7521.747	1001.938	9.82	0.92	0.69	1		4903.875	3750.651	10.01	0.32	0.18	11
7533.705	1003.531	10.44	1.22	1.08	1		4903.881	3750.656	9.97	0.32	0.18	11
							4903.904	3750.673	9.86	0.29	0.20	11
							4903.909	3750.677	9.85	0.28	0.20	11
BL HER							4903.916	3750.683	9.83	0.27	0.18	11
J.D.	CYCLES	V	B-V	U-B	RF		4903.922	3750.687	9.82	0.28	0.18	11
							4903.932	3750.695	9.81	0.28	0.19	11
3059.951	2340.355	10.51	0.60		9		4903.938	3750.699	9.80	0.27	0.20	11
3060.947	2341.117	10.34	0.48		9		4903.944	3750.704	9.80	0.27	0.20	11
3062.944	2342.644	10.22	0.38		9		4905.780	3752.108	10.29	0.54	0.23	11
3073.938	2351.053	10.16	0.41		9		4905.788	3752.114	10.30	0.54	0.22	11
3091.803	2364.717	9.86	0.25		9		4905.794	3752.119	10.31	0.53	0.23	11
3092.809	2365.486	10.60	0.51		9		4905.869	3752.176	10.29	0.58	0.29	11
3093.764	2366.216	10.46	0.56		9		4905.875	3752.181	10.32	0.56	0.27	11
3094.767	2366.984	10.06	0.39		9		4907.801	3753.654	9.96	0.33	0.20	11
3095.764	2367.746	9.79	0.26		9		4907.808	3753.659	9.93	0.21	0.31	11
3098.792	2370.062	10.24	0.42		9		4907.818	3753.667	9.89	0.28	0.22	11
3116.757	2383.802	9.91	0.26		9		4907.824	3753.672	9.86	0.28	0.20	11
3123.728	2389.134	10.42	0.48		9		4907.830	3753.676	9.84	0.28	0.19	11
4193.934	3207.664	10.20	0.38		9		4907.841	3753.685	9.82	0.28	0.19	11
4195.965	3209.217	10.38	0.59		9		4907.848	3753.690	9.81	0.24	0.22	11
4213.910	3222.942	10.17	0.38		9		4907.855	3753.695	9.80	0.24	0.21	11
4251.812	3251.931	10.12	0.36		9		4907.865	3753.703	9.79	0.26	0.22	11
4549.971	3479.973	10.07	0.40		9							

TABLE 1 (continued)

BL	HER	CONT.				V	LAC	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4907.872	3753.708	9.79	0.27	0.19	11	6741.787	1352.811	9.00	0.99		2
4907.878	3753.713	9.79	0.26	0.22	11	6742.831	1353.020	9.24	1.10		2
4907.889	3753.721	9.80	0.26	0.22	11	6745.891	1353.634	8.70	0.84		2
4907.895	3753.725	9.80	0.27	0.20	11	6746.841	1353.825	9.01	1.00		2
4907.901	3753.730	9.80	0.27	0.21	11	6748.891	1354.236	9.35	1.13		2
5269.801	4030.524	10.56	0.55	0.21	11	6749.916	1354.442	8.47	0.67		2
5270.770	4031.265	10.42	0.56	0.31	11	6751.935	1354.847	9.04	1.00	0.69	3
5276.719	4035.815	9.96	0.33	0.24	11	6755.942	1355.651	8.72	0.86		2
5276.726	4035.821	9.98	0.32	0.24	11	6758.851	1356.235	9.41	1.12		2
5276.740	4035.831	9.97	0.33	0.24	11	6759.875	1356.440	8.49	0.72		2
5276.748	4035.837	9.99	0.34	0.22	11	6760.902	1356.647	8.74	0.84		2
5276.755	4035.842	9.99	0.37	0.22	11	6766.823	1357.835	8.99	1.03	0.71	3
5276.786	4035.866	10.01	0.38	0.23	11	6767.895	1358.050	9.26	1.10		2
5276.793	4035.872	10.01	0.38	0.23	11	6768.789	1358.229	9.42	1.13		3
5276.801	4035.877	10.01	0.39	0.23	11	6769.915	1358.455	8.43	0.65	0.55	3
5276.814	4035.888	10.00	0.39	0.23	11	6772.928	1359.060	9.22	1.11	0.77	3
5276.822	4035.894	10.02	0.38	0.24	11	6785.975	1361.678	8.76	0.91	0.58	3
5287.683	4044.200	10.38	0.56	0.24	11	6792.803	1363.048	9.22	1.12	0.70	3
5287.693	4044.208	10.37	0.59	0.25	11	6793.939	1363.276	9.35	1.11	0.74	2
5287.720	4044.229	10.38	0.59	0.29	11	6805.804	1365.657	8.74	0.88	0.56	3
5287.724	4044.232	10.39	0.57	0.30	11	6806.827	1365.862	9.03	1.03	0.70	2
5287.737	4044.242	10.41	0.53	0.31	11	6807.785	1366.054	9.23	1.11	0.74	3
5287.745	4044.248	10.38	0.57	0.30	11	6808.791	1366.256	9.37	1.11	0.76	3
5287.768	4044.266	10.42	0.61	0.24	11	6809.787	1366.456	8.42	0.70	0.55	3
5287.775	4044.271	10.44	0.60	0.25	11	6811.786	1366.857	9.02	1.03	0.72	3
5287.868	4044.342	10.53	0.59	0.28	11	6814.798	1367.461	8.44	0.70	0.54	3
5287.875	4044.347	10.53	0.59	0.30	11	6814.816	1367.465	8.44	0.68	0.53	2
5287.888	4044.358	10.55	0.59	0.30	11	6825.661	1369.641	8.72	0.84		4
5287.895	4044.363	10.54	0.60	0.31	11	6825.850	1369.679	8.77	0.87		4
6025.789	4608.729	9.82	0.29	0.25	11	6826.847	1369.879	9.05	1.05		4
6025.800	4608.738	9.80	0.32	0.23	11	6827.641	1370.038	9.19	1.11		4
6025.812	4608.747	9.85	0.29	0.26	11	6827.854	1370.081	9.24	1.12		4
6025.826	4608.758	9.91	0.28	0.24	11	6828.832	1370.277	9.34	1.10		4
6025.838	4608.767	9.90	0.32	0.24	11	6829.790	1370.470	8.39	0.64		4
6025.852	4608.777	9.91	0.33	0.26	11	6830.797	1370.672	8.74	0.87		4
6025.867	4608.789	9.90	0.35	0.22	11	6831.788	1370.871	9.06	1.02		4
6041.663	4620.871	10.00	0.39	0.27	11	6832.736	1371.061	9.23	1.11		4
6041.691	4620.891	10.01	0.41	0.23	11	6833.760	1371.266	9.34	1.10		4
6041.698	4620.897	10.03	0.39	0.23	11	6837.620	1372.041	9.22	1.10		4
6041.719	4620.913	10.02	0.41	0.29	11	6843.685	1373.258	9.35	1.11		4
6066.665	4639.993	10.02	0.45	0.20	11	6844.774	1373.476	8.44	0.69	0.51	3
6066.681	4640.005	10.06	0.43	0.30	11	6845.732	1373.669	8.77	0.87	0.58	3
6066.696	4640.017	10.09	0.43	0.27	11	6846.670	1373.857	9.04	1.02		4
6066.713	4640.029	10.12	0.43	0.25	11	6846.688	1373.860	9.03	1.02	0.74	2
6066.733	4640.045	10.16	0.43	0.19	11	6846.691	1373.861	9.05	1.03		4
7056.871	5397.336	10.16	0.30	0.10	1	6847.669	1374.057	9.24	1.11		4
7453.933	5701.023	10.11	0.45	0.25	1	6848.655	1374.255	9.36	1.11		4
7455.829	5702.472	10.60	0.56	0.25	1	6848.777	1374.280	9.36	1.10	0.72	3
7458.802	5704.747	9.91	0.31	0.28	1	6849.755	1374.476	8.45	0.68	0.48	2
7469.783	5713.145	10.33	0.56	0.28	1	6853.594	1375.246	9.42	1.10	0.71	2
7472.785	5715.442	10.60	0.58	0.32	1	7184.813	1441.709	8.83	0.92	0.59	1
						7190.751	1442.900	9.06	1.05	0.69	1
V	LAC					V	LAC				
J.D.	CYCLES	V	B-V	U-B	RF	7191.850	1443.121	9.30	1.12	0.77	1
6735.941	1351.638	8.72	0.85		2	7198.891	1444.534	8.50	0.74	0.52	1
6736.940	1351.838	9.04	1.00		2	7201.829	1445.123	9.31	1.13	0.75	1
6740.845	1352.622	8.71	0.82		2	7202.853	1445.329	9.20	1.01	0.58	1
						7203.787	1445.516	8.50	0.72	0.50	1

TABLE 1 (continued)

V	LAC	CONT.				X	LAC	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7205.811	1445.922	9.09	1.06	0.69	1	6832.739	1254.999	8.49	1.02		4
7213.740	1447.513	8.47	0.69	0.46	1	6833.764	1255.187	8.55	1.02		4
7214.757	1447.717	8.84	0.93	0.55	1	6837.622	1255.895	8.40	0.97		4
7215.722	1447.911	9.08	1.07	0.68	1	6843.688	1257.010	8.50	1.02		4
7220.683	1448.907	9.11	1.05	0.71	1	6844.780	1257.210	8.60	1.04	0.67	3
7221.703	1449.111	9.29	1.13	0.79	1	6845.738	1257.386	8.42	0.92	0.60	3
7515.947	1508.154	9.33	1.13	0.83	1	6846.628	1257.550	8.23	0.81	0.60	2
7517.909	1508.548	8.57	0.74	0.54	1	6846.672	1257.558	8.20	0.82		4
						6846.693	1257.562	8.20	0.83		4
						6846.747	1257.571	8.22	0.85	0.57	3
X	LAC					6847.671	1257.741	8.28	0.90		4
J.D.	CYCLES	V	B-V	U-B	RF	6848.657	1257.922	8.42	1.00		4
						6852.624	1258.651	8.27	0.87	0.58	2
6735.943	1237.220	8.62	1.03		2	7184.806	1319.664	8.23	0.87	0.57	1
6736.942	1237.403	8.41	0.91		2	7190.744	1320.755	8.30	0.92	0.60	1
6740.841	1238.119	8.60	1.04		2	7191.841	1320.956	8.47	1.00	0.68	1
6741.790	1238.294	8.58	1.01		2	7198.903	1322.253	8.57	1.01	0.68	1
6742.827	1238.484	8.26	0.84		2	7201.818	1322.789	8.34	0.94	0.61	1
6745.895	1239.048	8.59	1.05		2	7202.841	1322.977	8.51	1.03	0.64	1
6746.845	1239.222	8.62	1.00		2	7203.797	1323.152	8.60	1.03	0.67	1
6748.897	1239.599	8.22	0.86		2	7205.818	1323.524	8.18	0.84	0.53	1
6749.923	1239.787	8.32	0.92		2	7213.744	1324.979	8.48	1.02	0.67	1
6751.943	1240.158	8.60	1.02	0.74	3	7214.766	1325.167	8.60	1.03	0.64	1
6755.948	1240.894	8.44	0.99		2	7215.726	1325.344	8.49	0.97	0.58	1
6757.845	1241.242	8.63	1.02		2	7220.690	1326.255	8.63	1.02	0.66	1
6759.881	1241.616	8.25	0.84		2	7221.711	1326.443	8.30	0.87	0.55	1
6766.836	1242.894	8.44	0.99	0.67	3	7515.954	1380.488	8.26	0.83	0.59	1
6767.889	1243.087	8.58	1.03		2	7517.918	1380.848	8.43	0.94	0.65	1
6768.801	1243.255	8.60	1.03	0.75	3						
6769.929	1243.462	8.25	0.86	0.62	3						
6772.937	1244.014	8.52	1.02	0.74	3						
6774.886	1244.372	8.47	0.95	0.60	3						
6786.885	1246.576	8.23	0.84	0.55	3						
Y	LAC					J.D.	CYCLES	V	B-V	U-B	RF
6787.876	1246.758	8.31	0.90	0.65	3	3093.934	715.561	9.49	0.93		8
6789.979	1247.145	8.59	1.06	0.72	3	3094.934	715.792	8.83	0.60		8
6792.810	1247.665	8.22	0.88	0.58	3	3095.920	716.020	9.12	0.78		8
6793.811	1247.848	8.38	0.96	0.65	3	3096.917	716.251	9.39	0.88		8
6793.945	1247.873	8.43	0.97	0.66	2	3098.908	716.711	9.04	0.67		8
6797.845	1248.589	8.22	0.83	0.57	2	3102.941	717.644	9.31	0.80		8
6805.810	1250.052	8.56	1.02	0.73	3	3103.944	717.876	8.86	0.68		8
6806.833	1250.240	8.58	1.02	0.71	2	3122.920	722.265	9.40	0.90		8
6807.793	1250.417	8.36	0.90	0.62	3	3125.872	722.948	9.06	0.72		8
6810.791	1250.967	8.49	1.02	0.71	3	3126.858	723.176	9.35	0.84		8
6811.793	1251.151	8.57	1.05	0.72	3	3151.799	728.944	9.04	0.71		8
6812.790	1251.334	8.51	1.00	0.65	3	3152.872	729.192	9.33	0.86		8
6813.784	1251.517	8.21	0.85	0.59	3	3153.913	729.433	9.50	0.92		8
6814.819	1251.707	8.27	0.90	0.63	2	3154.868	729.654	9.20	0.75		8
6816.782	1252.068	8.56	1.04	0.72	3	3158.767	730.556	9.48	0.92		8
6817.744	1252.244	8.59	1.04	0.67	3	3159.788	730.792	8.83	0.60		8
6825.664	1253.699	8.24	0.88		4	6825.634	1578.624	9.29	0.77		4
6825.853	1253.734	8.26	0.87		4	6825.789	1578.660	9.13	0.71		4
6826.850	1253.917	8.41	1.01		4	6825.817	1578.666	9.10	0.70		4
6827.643	1254.063	8.51	1.06		4	6826.831	1578.901	8.87	0.65		4
6827.858	1254.102	8.53	1.03		4	6827.612	1579.081	9.08	0.79		4
6828.829	1254.280	8.54	1.01		4	6827.832	1579.132	9.16	0.79		4
6829.793	1254.457	8.22	0.85		4	6828.791	1579.354	9.34	0.88		4
6830.800	1254.642	8.19	0.83		4	6829.767	1579.580	9.36	0.84		4
6831.791	1254.824	8.34	0.94		4	6830.613	1579.775	8.76	0.56		4

TABLE I (continued)

Y	LAC	CONT.						Z	LAC	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF			J.D.	CYCLES	V	B-V	U-B	RF
6831.756	1580.040	9.06	0.72		4			6825.645	627.021	8.75	1.27				4
6832.703	1580.259	9.28	0.88		4			6825.827	627.038	8.68	1.23				4
6833.738	1580.498	9.41	0.87		4			6826.835	627.130	8.49	1.15				4
6836.593	1581.158	9.18	0.82		4			6827.628	627.203	8.35	1.07				4
6837.590	1581.389	9.38	0.87		4			6827.841	627.223	8.35	1.06				4
								6828.802	627.311	7.99	0.91				4
6843.653	1582.791	8.82	0.54		4			6829.781	627.401	8.07	1.02				4
6846.646	1583.483	9.44	0.87		4			6830.782	627.493	8.22	1.13				4
6847.645	1583.714	8.88	0.61		4			6831.775	627.584	8.36	1.19				4
6848.628	1583.942	8.93	0.68		4			6832.727	627.672	8.50	1.30				4
7143.926	1652.238	9.30	0.89	0.51	1			6833.752	627.766	8.66	1.38				4
7144.887	1652.460	9.46	0.88	0.56	1			6837.608	628.120	8.51	1.12				4
7147.840	1653.143	9.20	0.83	0.49	1			6843.673	628.677	8.51	1.28				4
7160.764	1656.132	9.20	0.82	0.45	1			6846.661	628.952	8.84	1.36				4
7162.784	1656.599	9.29	0.81	0.44	1			6847.661	629.044	8.68	1.24				4
7178.837	1660.312	9.29	0.87	0.52	1			6848.645	629.134	8.48	1.12				4
7183.799	1661.460	9.44	0.91	0.53	1			7134.897	655.430	8.12	1.08	0.69	1		
7191.798	1663.310	9.36	0.88	0.53	1			7142.951	656.170	8.39	1.10	0.73	1		
7198.842	1664.939	9.01	0.69	0.43	1			7147.927	656.627	8.42	1.24	0.99	1		
7205.780	1666.543	9.43	0.87	0.50	1			7156.923	657.453	8.19	1.09	0.71	1		
7215.705	1668.839	8.82	0.61	0.37	1			7159.873	657.724	8.53	1.34	1.05	1		
7515.908	1738.269	9.34	0.87	0.56	1			7162.804	657.993	8.72	1.31	1.02	1		
7517.880	1738.725	8.87	0.61	0.38	1			7178.873	659.470	8.14	1.08	0.74	1		
7521.935	1739.663	9.18	0.74	0.41	1			7183.853	659.927	8.86	1.39	1.12	1		
7523.838	1740.103	9.19	0.79	0.48	1			7190.769	660.562	8.30	1.18	0.87	1		
7592.737	1756.038	9.06	0.76	0.48	1			7191.814	660.658	8.48	1.27	1.00	1		
Z	LAC														
J.D.	CYCLES	V	B-V	U-B	RF			7198.858	661.305	7.98	0.90	0.61	1		
2771.930	254.637	8.48	1.26		8			7201.809	661.577	8.33	1.19	0.88	1		
2772.958	254.731	8.68	1.37		8			7202.801	661.668	8.48	1.29	0.99	1		
2773.823	254.810	8.77	1.40		8			7203.776	661.757	8.66	1.36	1.09	1		
2774.972	254.916	8.88	1.46		8			7205.802	661.943	8.80	1.36	1.08	1		
2776.965	255.099	8.60	1.16		8			7213.734	662.672	8.48	1.29	1.01	1		
								7214.749	662.765	8.65	1.36	1.05	1		
2777.958	255.190	8.44	1.08		8			7215.712	662.854	8.79	1.41	1.15	1		
2778.948	255.281	8.21	1.03		8			7220.669	663.309	8.01	0.88	0.62	1		
2779.976	255.376	7.92	0.91		8			7221.686	663.402	8.10	1.01	0.68	1		
2788.917	256.197	8.42	1.12		8			7517.894	690.613	8.42	1.22	0.96	1		
2790.903	256.379	7.91	0.91		8			RR LAC							
2791.951	256.476	8.21	1.14		8			2771.944	432.023	9.28	1.12		8		
2792.930	256.566	8.32	1.20		8			2772.977	432.184	8.87	0.90		8		
3098.927	284.675	8.63	1.31		8			2773.846	432.320	8.49	0.70		8		
3122.906	286.878	8.86	1.46		8			2774.983	432.497	8.71	0.89		8		
3123.878	286.967	8.93	1.39		8			2777.882	432.949	9.30	1.14		8		
								2778.986	433.121	9.11	1.02		8		
3125.878	287.151	8.55	1.11		8			2779.979	433.276	8.46	0.70		8		
3126.865	287.242	8.45	1.07		8			2788.927	434.670	8.96	1.01		8		
3131.885	287.703	8.66	1.35		8			2790.906	434.979	9.26	1.15		8		
3132.899	287.796	8.75	1.40		8			2791.955	435.142	9.05	0.99		8		
3151.826	289.535	8.23	1.15		8										
								3098.930	482.986	9.29	1.14		8		
3152.878	289.631	8.40	1.26		8			3122.910	486.723	8.97	1.04		8		
3153.941	289.729	8.68	1.35		8			3123.882	486.875	9.20	1.15		8		
3154.896	289.817	8.76	1.41		8			3125.882	487.187	8.93	0.88		8		
3158.799	290.175	8.48	1.08		8			3126.868	487.340	8.47	0.73		8		
3159.816	290.269	8.27	1.03		8										
3178.781	292.011	8.82	1.30		8										
3179.750	292.100	8.57	1.16		8										
3180.729	292.190	8.47	1.09		8										
3238.628	297.509	8.21	1.15		8										

TABLE I (continued)

RR	LAC	CONT.				BG	LAC	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
3131.892	488.123	9.19	1.04		8	3126.851	586.441	9.08	1.10		8
3132.906	488.281	8.51	0.70		8	3151.795	591.120	8.83	0.97		8
3151.830	491.231	8.57	0.81		8	3152.865	591.320	8.97	1.08		8
3152.882	491.395	8.47	0.76		8	3154.875	591.697	8.90	0.95		8
3153.944	491.560	8.80	0.92		8	3158.774	592.429	9.07	1.09		8
3154.903	491.710	8.95	1.02		8	3159.792	592.619	9.08	1.07		8
3158.806	492.318	8.47	0.71		8	3179.722	596.357	8.99	1.09		8
3159.819	492.476	8.63	0.87		8	3180.708	596.542	9.13	1.15		8
6825.650	1063.817	9.08	1.06		4	6825.598	1280.142	8.87	0.99		4
6825.839	1063.846	9.10	1.09		4	6825.786	1280.177	8.89	1.02		4
6826.838	1064.002	9.22	1.12		4	6827.608	1280.519	9.11	1.14		4
6827.631	1064.125	9.05	0.99		4	6827.828	1280.560	9.17	1.12		4
6827.844	1064.159	8.94	0.96		4	6828.786	1280.740	8.94	0.97		4
6829.784	1064.461	8.59	0.84		4	6829.764	1280.923	8.59	0.84		4
6830.786	1064.617	8.82	0.96		4	6830.611	1281.082	8.72	0.97		4
6831.778	1064.772	8.99	1.04		4	6843.645	1283.527	9.14	1.09		4
6832.759	1064.925	9.18	1.10		4	6846.638	1284.088	8.80	0.97		4
6833.756	1065.080	9.16	1.07		4	6847.637	1284.275	8.99	1.06		4
6837.604	1065.680	8.89	0.98		4	7142.885	1339.649	9.09	1.06	0.70	1
6843.678	1066.627	8.84	0.96		4	7143.914	1339.842	8.59	0.83	0.50	1
6846.664	1067.092	9.16	1.05		4	7144.878	1340.023	8.70	0.91	0.60	1
6847.663	1067.248	8.59	0.75		4	7147.895	1340.589	9.17	1.11	0.78	1
6848.647	1067.401	8.53	0.77		4	7178.849	1346.394	9.00	1.10	0.77	1
7142.942	1113.269	8.48	0.74	0.47	1	7183.823	1347.327	8.99	1.08	0.77	1
7147.936	1114.047	9.23	1.11	0.75	1	7205.768	1351.443	9.08	1.12	0.76	1
7155.808	1115.274	8.49	0.72	0.44	1	7215.694	1353.304	9.01	1.11	0.72	1
7159.889	1115.910	9.17	1.13	0.79	1	7228.719	1355.747	8.79	0.91	0.53	1
7160.800	1116.052	9.22	1.10	0.75	1	7233.738	1356.689	8.98	1.01	0.61	1
7162.813	1116.366	8.43	0.77	0.46	1	7237.680	1357.428	9.10	1.10	0.78	1
7178.886	1118.871	9.08	1.10	0.75	1	7240.704	1357.995	8.70	0.91	0.59	1
7183.865	1119.647	8.89	0.99	0.63	1	7241.731	1358.187	8.90	1.03	0.73	1
7190.776	1120.724	8.94	1.02	0.67	1	7251.666	1360.051	8.75	0.92		1
7191.826	1120.887	9.18	1.10	0.79	1	7267.601	1363.039	8.72	0.94	0.61	1
7198.868	1121.985	9.20	1.12	0.81	1	7273.576	1364.160	8.84	1.02	0.68	1
7202.816	1122.600	8.83	0.97	0.61	1	7472.949	1401.552	9.18	1.12	0.77	1
7203.765	1122.748	8.98	1.04	0.67	1	7515.900	1409.608	9.16	1.06	0.82	1
7205.793	1123.064	9.17	1.10	0.71	1	7521.912	1410.736	8.91	0.93	0.60	1
7213.730	1124.301	8.44	0.73	0.44	1	7523.823	1411.094	8.81	0.97	0.67	1
7214.722	1124.456	8.64	0.84	0.51	1						
7215.717	1124.611	8.80	0.99	0.61	1						
							DF	LAC			
7220.676	1125.384	8.52	0.76	0.53	1		J.D.	CYCLES	V	B-V	RF
7221.695	1125.543	8.74	0.91	0.59	1						
7515.929	1171.401	8.54	0.78		1	6830.618	1524.947	11.92	1.25		4
7517.941	1171.714	8.93	1.01	0.69	1	6830.777	1524.982	12.04	1.27		4
BG	LAC					6831.714	1525.192	12.20	1.33		4
J.D.	CYCLES	V	B-V	U-B	RF	6831.761	1525.202	12.15	1.29		4
3093.941	580.269	8.98	1.08		8	6832.708	1525.413	11.89	1.19		4
3094.927	580.454	9.11	1.13		8						
3095.913	580.639	9.06	1.06		8						
3096.910	580.826	8.58	0.80		8						
3098.906	581.200	8.91	1.05		8						
3102.934	581.956	8.64	0.87		8	6846.650	1528.526	11.55	1.00		4
3103.938	582.144	8.81	1.03		8	6847.648	1528.749	11.75	1.15		4
3122.872	585.695	8.96	0.98		8	6848.631	1528.968	11.96	1.29		4
3123.868	585.882	8.51	0.82		8	6867.596	1533.202	12.16	1.29		4
3125.861	586.256	8.97	1.06		8	6869.580	1533.645	11.65	1.05		4

TABLE I (continued)

DF	LAC	CONT.				CC	LYR	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6876.611	1535.215	12.19	1.31		4	6786.676	282.624	11.80	0.39	0.26	3
6879.584	1535.879	11.89	1.21		4	6787.674	282.666	11.76	0.32	0.31	-3
6880.584	1536.102	12.08	1.30		4						
6940.600	1549.501	11.59	1.04		4	6789.749	282.752	11.82	0.40	0.23	3
6942.556	1549.937	11.98	1.27		4	6790.676	282.791	11.86	0.45	0.20	3
						6791.791	282.837	11.83	0.59	0.25	-3
6953.564	1552.395	11.97	1.17		4	6792.681	282.874	11.87	0.58	0.29	3
6954.558	1552.617	11.62	1.06		4	6793.677	282.916	12.03	0.65	0.08	3
6955.563	1552.841	11.90	1.23		4						
						6805.683	283.415	12.45	0.70	0.19	3
	RX LIB					6806.657	283.456	12.42	0.65	0.30	3
						6807.663	283.498	12.32	0.60	0.07	3
J.D.	CYCLES	V	B-V	U-B	RF	6817.664	283.914	11.94	0.63	0.24	3
4562.374	182.993	12.09	1.34		7	6818.663	283.956	12.00	0.60	0.16	3
4929.444	197.716	11.70	0.87		7						
4930.403	197.754	11.69	0.87		7	6819.657	283.997	12.01	0.63	0.32	3
4931.309	197.790	11.65	0.95		7	6845.619	285.079	12.11	0.70	0.42	-3
4932.313	197.831	11.68	0.95		7	6846.620	285.120	12.14	0.66	0.32	-3
						6848.654	285.205	12.38	0.61	0.3	
						6849.635	285.246	12.41	0.82	0.34	-3
5251.503	210.633	11.83	0.72		7						
5302.267	212.669	11.86	0.82		7						
5555.601	222.830	11.75	1.01		7						
5573.610	223.553	12.10	0.80		7						
5608.440	224.950	11.90	1.07		7						
						5310.393	2273.324	11.42	0.53		-7
						5315.365	2275.452	11.19	0.43		7
5609.449	224.990	11.95	1.17		7	5365.253	2296.809	11.41	0.55		7
5611.524	225.073	12.17	1.24		7	6744.776	2887.368	11.67	0.64		2
5612.386	225.108	12.34	1.26		7	6745.798	2887.805	11.29	0.49		2
5622.352	225.508	12.44	0.91		-7						
5623.389	225.549	12.30	0.79		-7						
						6746.699	2888.191	11.49	0.60		2
5624.278	225.585	12.09	0.77		-7	6746.903	2888.279	11.68	0.67		2
5626.338	225.667	11.85	0.82		7	6747.756	2888.644	11.46	0.45		2
5627.278	225.705	11.78	0.83		7	6748.760	2889.073	11.52	0.47		2
5628.355	225.748	11.70	0.84		7	6749.744	2889.495	11.63	0.73		2
5629.449	225.792	11.68	0.96		7						
						6751.736	2890.347	11.42	0.82		3
5630.350	225.828	11.80	0.96		-7	6752.740	2890.777	11.18	0.45		3
5631.343	225.868	11.72	0.96		7	6753.826	2891.242	11.56	0.64		2
5634.236	225.984	11.85	1.04		7	6755.854	2892.110	11.75	0.55		2
5637.316	226.108	12.13	1.09		7	6757.723	2892.910	11.32	0.39		2
5638.335	226.149	12.34	1.16		-7						
						6758.740	2893.346	11.55	0.64		2
5639.243	226.185	12.34	1.17		-7	6759.766	2893.785	11.08	0.48		2
5640.281	226.227	12.40	0.89		-7	6760.815	2894.234	11.55	0.62		2
5641.278	226.267	12.54	1.18		-7	6761.766	2894.641	11.23	0.48		2
5642.500	226.316	12.49	1.15		-7	6765.774	2896.357	11.12	0.67		2
5657.225	226.906	11.84	1.09		7						
						6774.685	2900.172	11.52	0.67		3
5660.293	227.029	12.05	1.27		7	6775.719	2900.614	11.56	0.64	0.19	3
7100.733	284.804	11.71	0.90	0.64	1	6776.697	2901.033	11.39	0.64	0.15	3
7102.756	284.885	11.81	1.00	0.79	1	6777.741	2901.480	11.65	0.63	0.3	
7131.685	286.046	12.02	1.05	0.99	1	6778.715	2901.897	11.23	0.54	0.21	3
CC	LYR					6786.684	2905.308	11.55	0.72	0.30	3
J.D.	CYCLES	V	B-V	U-B	RF	6787.687	2905.738	11.30	0.51	0.21	3
6751.725	281.168	12.21	0.72		3	6791.845	2907.518	11.20	0.47	0.29	2
6752.752	281.211	12.25	0.75		3	6792.668	2907.870	11.13	0.46	0.31	3
6773.704	282.084	12.13	0.56		3	6793.806	2908.357	11.59	0.60	0.26	2
6777.729	282.251	12.19	0.73		3	6810.660	2915.572	11.65	0.67	0.34	3
6778.700	282.292	12.19	0.75		3	6811.656	2915.999	11.33	0.60	0.42	3
						6812.656	2916.427	11.61	0.66	0.24	3
6783.729	282.501	12.13	0.52	0.23	3	6813.649	2916.852	11.19	0.45	0.31	3
6784.704	282.542	12.03	0.39	0.19	3						
6785.684	282.583	11.84	0.38	0.28	3	6818.653	2918.994	11.31	0.60	0.27	3

TABLE 1 (continued)

CN	LYR	CONT.				T	MON	CONT.				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	
6819.648	2919.420	11.66	0.64	0.36	3	7015.594	259.640	6.41	1.43	1.28	1	
6833.762	2925.462	11.23	0.47	0.22	2	7020.617	259.826	6.59	1.41	1.18	1	
6843.640	2929.691	11.30	0.50	0.29	3	7022.603	259.899	6.56	1.34	1.07	1	
6848.663	2931.841	11.30	0.56	0.35	3	7023.647	259.938	6.56	1.31	1.07	1	
6849.653	2932.265	11.69	0.63		3	7043.618	260.677	6.49	1.44	1.28	1	
						7240.863	267.977	6.54	1.33	1.03	1	
	RR	MIC				7273.883	269.199	5.67	0.96	0.89	1	
J.D.	CYCLES	V	B-V	U-B	RF		SV	MON				
5256.686	165.390	11.02	0.38	0.15	5	J.D.	CYCLES	V	B-V	U-B	RF	
5273.586	165.922	11.64	0.76	0.47	6	4784.307	314.083	8.52	1.34		7	
5274.587	165.954	11.69	0.77	0.40	6	4785.285	314.148	8.70	1.39		-7	
5276.582	166.016	11.83	0.75	0.43	6	5164.335	339.032	8.43	1.32		7	
5276.653	166.019	11.82	0.73	0.44	6	5187.313	340.540	7.87	0.79		7	
5277.581	166.048	11.84	0.73	0.38	6	5532.360	363.192	8.87	1.32		7	
5278.593	166.080	11.87	0.70	0.38	6	5535.276	363.384	8.57	1.19		7	
5304.483	166.894	11.80	0.84	0.54	6	5548.290	364.238	8.88	1.44		-7	
	T	MON				5555.249	364.695	7.91	0.92		7	
	J.D.	CYCLES	V	B-V	U-B	RF	5567.248	365.483	8.47	1.12		7
2809.996	103.995	6.50	1.28		8	5568.246	365.548	7.79	0.75		7	
2813.979	104.142	5.60	0.95		8	5573.254	365.877	8.16	1.17		7	
2814.970	104.179	5.63	0.98		8	5580.238	366.335	8.67	1.27		7	
2821.010	104.403	6.02	1.35		8	5612.201	368.434	8.47	1.05		7	
2822.003	104.439	6.12	1.37		8	7020.608	460.894	8.19	1.17	0.93	1	
						7022.594	461.024	8.41	1.27	1.09	1	
2825.008	104.551	6.33	1.42		8	7023.616	461.091	8.54	1.31	1.20	1	
2831.990	104.809	6.55	1.51		8	7043.610	462.404	8.47	1.13	0.76	1	
2833.021	104.847	6.57	1.49		8	7240.839	475.352	8.64	1.27	0.97	1	
2841.964	105.178	5.69	0.96		8	7273.875	477.520	8.17	0.95	0.57	1	
2848.938	105.436	6.15	1.37		8	7592.950	498.467	8.48	1.14	0.82	1	
2860.972	105.882	6.61	1.41		8	7597.894	498.792	8.01	1.06	0.84	1	
2865.014	106.031	6.24	1.18		8	7600.886	498.988	8.33	1.25	1.11	1	
2882.835	106.691	6.48	1.51		8	7601.839	499.051	8.42	1.30	1.16	1	
2883.962	106.732	6.51	1.52		8	7619.914	500.237	8.75	1.40	1.30	1	
2885.899	106.804	6.56	1.50		8	7623.864	500.497	8.37	1.03	0.81	1	
2887.844	106.876	6.62	1.43		8	7635.844	501.283	8.80	1.39	1.22	1	
3216.979	119.057	6.06	1.03		8	7645.902	501.943	8.31	1.17	1.05	1	
3238.889	119.868	6.63	1.43		8	7647.763	502.066	8.50	1.30	1.16	1	
4784.328	177.063	5.76	0.90		7	7656.731	502.654	7.84	0.84	0.59	1	
4785.304	177.099	5.66	0.89		-7	7660.739	502.917	8.24	1.20	0.99	1	
5165.286	191.162	5.59	0.97	0.71	5	7663.731	503.114	8.57	1.34	1.22	1	
5166.287	191.199	5.68	1.03	0.77	5		SZ	MON				
5167.294	191.236	5.75	1.10	0.85	5	J.D.	CYCLES	V	B-V	U-B	RF	
5169.288	191.310	5.91	1.25	0.92	5	5176.304	191.570	6.31	1.43	1.18	5	
5177.288	191.606	6.38	1.45	1.18	5	6819.987	416.666	10.49	0.90	0.34	2	
5201.233	192.492	6.21	1.37	1.12	5	6834.005	417.522	10.07	0.96	0.60	2	
5209.232	192.788	6.61	1.44	1.17	5	6835.006	417.584	10.22	0.96	0.53	2	
5532.381	204.748	6.51	1.44		7	6852.997	418.683	10.55	0.94	0.38	2	
5535.296	204.855	6.60	1.41		7	6853.977	418.743	10.71	0.83		2	
5547.265	205.298	6.08	0.95		-7	6856.966	418.925	10.55	0.75		2	
5555.258	205.594	6.41	1.45		7	6857.915	418.983	10.29	0.72		2	
5567.266	206.039	5.94	1.04		7	6858.980	419.048	9.94	0.67		2	
5568.254	206.075	5.68	0.89		7	7597.923	464.194	9.87	0.89	0.58	1	
5575.234	206.334	5.99	1.21		7	7600.908	464.376	10.01	0.96	0.65	1	
7014.688	259.606	6.34	1.41	1.28	1	7601.880	464.436	10.10	0.96	0.61	1	

TABLE 1 (continued)

SZ	MON	CONT.					XX	MON					
J.D.	CYCLES	V	B-V	U-B	RF		J.D.	CYCLES	V	B-V	U-B	RF	
7623.914	465.782	10.26	0.74	0.21	1		7597.931	1392.455	11.95	1.30	0.89	1	
7635.883	466.513	10.48	0.95	0.51	1		7600.914	1393.002	11.61	1.02	0.66	1	
7648.899	467.308	9.88	0.92	0.61	1		7601.887	1393.180	11.63	1.13	0.76	1	
7653.807	467.608	10.53	0.83	0.41	1		7623.926	1397.219	11.53	1.24		1	
							7635.891	1399.412	11.96	1.31	0.91	1	
7660.815	468.036	9.76	0.71	0.39	1		7648.908	1401.798	12.23	1.42	0.87	1	
7663.764	468.216	9.89	0.90	0.63	1		7653.867	1402.706	12.20	1.58	1.17	1	
	TX MON						7654.846	1402.886	12.17	1.23	1.14	1	
	J.D.	CYCLES	V	B-V	U-B	RF		7660.821	1403.981	11.72	1.01	0.71	1
								7661.729	1404.147	11.62	1.09	0.72	1
4812.305	553.035	10.72	1.06		7		7663.769	1404.521	12.08	1.23	1.23	1	
5547.360	637.508	11.29	1.36		7			AC MON					
5567.294	639.799	10.79	1.04		-7			J.D.	CYCLES	V	B-V	U-B	RF
5568.302	639.915	10.86	1.09		-7			5532.409	689.689	10.38	1.38		7
5574.255	640.599	11.26	1.23		7			5535.328	690.053	9.77	1.04		7
								5547.402	691.558	10.19	1.30		7
5595.252	643.012	10.69	1.07		7			5568.322	694.166	9.90	1.13		7
5609.215	644.617	11.21	1.22		7			5573.304	694.787	10.45	1.39		7
6814.990	783.185	10.99	1.22	0.68	2								
6819.978	783.759	10.73	1.08	0.62	2								
6833.998	785.370	11.16	1.28	0.86	2								
								CV MON					
6853.002	787.554	11.27	1.33		2			5574.269	694.907	10.17	1.22		7
6853.983	787.667	11.07	1.15		2			5609.231	699.266	9.77	1.12		7
6856.973	788.010	10.74	1.06		2			5616.211	700.136	9.86	1.40		-7
6857.919	788.119	10.85	1.16		2								
6858.987	788.242	10.98	1.19		2								
	TZ MON							J.D.	CYCLES	V	B-V	U-B	RF
	J.D.	CYCLES	V	B-V	U-B	RF		6512.621	1210.385	10.03	1.25	0.87	14
								6514.594	1210.752	10.43	1.46	1.09	14
7600.921	1023.254	11.03	1.32	1.09	1			6515.595	1210.938	10.59	1.53	1.12	14
7601.894	1023.384	11.14	1.34	1.10	1			6516.658	1211.135	10.38	1.37	0.88	14
7635.898	1027.962	10.65	1.18	0.83	1			6517.594	1211.309	9.93	1.17	0.87	14
7648.916	1029.715	10.45	0.98	0.72	1			6571.348	1221.299	9.94	1.19	0.84	14
7649.883	1029.845	10.68	1.13	0.81	1			6572.419	1221.499	10.21	1.34	0.93	14
								6575.378	1222.048	10.63	1.52	1.09	14
7653.875	1030.382	11.18	1.36	1.05	1			6612.278	1228.906	10.58	1.47	1.12	-14
7654.852	1030.514	10.92	1.19	0.91	1			6632.213	1232.611	10.33	1.39	1.05	14
7660.827	1031.318	11.10	1.35	1.13	1			6632.412	1232.648	10.32	1.40	1.07	14
7661.735	1031.440	11.11	1.32	1.03	1			6666.344	1238.955	10.61	1.49	1.07	14
7663.781	1031.716	10.46	0.99	0.74	1			6666.351	1238.956	10.63	1.48	1.12	14
	WW MON							R MUS					
	J.D.	CYCLES	V	B-V	U-B	RF		J.D.	CYCLES	V	B-V	U-B	RF
								3776.198	502.829	6.26	0.75		9
7597.901	1629.643	12.38	1.18	0.73	1			3777.238	502.968	6.52	0.91		9
7600.893	1630.285	12.55	1.06	0.69	1			3852.963	513.051	6.63	0.98		9
7601.853	1630.491	12.12	1.00	0.72	1			3855.890	513.441	6.10	0.56		9
7619.924	1634.367	11.99	0.89	0.61	1			4527.115	602.820	6.23	0.76		9
7623.875	1635.214	12.67	1.35	0.48	1			4544.024	605.071	6.66	0.99		9
								4558.035	606.937	6.54	0.91		9
7635.851	1637.783	12.65	1.30		1			4561.024	607.335	6.51	0.77		9
7645.910	1639.940	12.71	1.31	0.89	1			4573.312	608.971	6.58	0.94		7
7647.770	1640.339	12.12	0.89	0.40	1			4575.315	609.238	6.76	0.95		7
7648.871	1640.575	12.27	1.08	0.76	1								
7649.859	1640.787	12.60	1.26	0.85	1								
7654.839	1641.855	12.64	1.22	0.92	1								
7656.738	1642.263	12.57	1.19	1.09	1			4580.306	609.902	6.52	0.89		-7
7660.747	1643.123	12.94	1.26	0.96	1			4587.262	610.829	6.31	0.79		7
7661.710	1643.329	12.17	0.98	0.66	1			4833.147	643.570	6.06	0.61		9
7663.740	1643.765	12.54	1.21	0.72	1			4845.097	645.161	6.78	0.99		9

TABLE 1 (continued)

R	MUS	CONT.				S	MUS	CONT.			
J.D.	CYCLES	B-V	U-B	RF		J.D.	CYCLES	V	B-V	U-B	RF
4847.407	645.469	5.92	0.54		7	4834.505	500.534	6.08	0.81		-7
4848.093	645.560	6.04	0.63		9	4845.093	501.630	6.19	0.88		9
4873.089	648.889	6.39	0.87		9	4848.086	501.940	6.49	0.91		9
4885.460	650.536	6.01	0.57		7	4873.066	504.527	6.07	0.83		9
4886.474	650.671	6.19	0.71		7	4890.456	506.327	5.99	0.76		7
4903.042	652.877	6.37	0.85		9	4903.060	507.632	6.18	0.88		9
4907.342	653.450	5.94	0.55		7	4917.985	509.177	6.02	0.72		9
4908.256	653.571	6.05	0.62		7	4921.003	509.490	5.97	0.83		9
4917.977	654.866	6.35	0.84		9	4926.043	510.012	6.41	0.88		9
4921.008	655.269	6.70	0.91		9	4927.009	510.112	6.17	0.81		9
4926.040	655.940	6.52	0.90		9	4929.334	510.352	5.98	0.76		7
4927.006	656.068	6.64	0.99		9	4950.000	512.492	6.01	0.79		9
4950.008	659.131	6.74	0.98		9	4950.979	512.593	6.18	0.85		9
4950.983	659.261	6.75	0.89		9	4952.949	512.797	6.39	0.96		9
4952.952	659.523	5.99	0.57		9	4953.943	512.900	6.45	0.95		9
4953.947	659.656	6.17	0.70		9	5161.511	534.390	5.90	0.78	0.49	5
5169.540	688.363	6.33	0.75	0.50	5	5176.491	535.941	6.39	0.95	0.63	5
5176.519	689.293	6.58	0.87	0.62	5	5177.498	536.046	6.25	0.88	0.57	5
5177.522	689.426	6.03	0.63	0.37	5	5179.490	536.252	5.93	0.75	0.48	5
5179.523	689.693	6.15	0.74	0.50	5	5201.463	538.527	6.05	0.85	0.56	5
5200.154	692.440	6.05	0.57		9	5205.487	538.943	6.40	0.95	0.64	5
5201.495	692.618	6.05	0.70	0.46	5	5208.529	539.258	5.93	0.76	0.48	5
5204.551	693.025	6.53	0.97	0.72	5	5236.417	542.146	6.09	0.79	0.48	5
5205.511	693.153	6.70	1.01	0.77	5	5238.456	542.357	5.97	0.77	0.49	5
5208.551	693.558	5.97	0.63	0.39	5	5243.451	542.874	6.39	0.98	0.67	5
5236.447	697.273	6.65	0.93	0.66	5	5246.407	543.180	5.98	0.76	0.48	5
5238.479	697.543	6.00	0.60	0.36	5	5250.471	543.601	6.10	0.89	0.60	5
5241.439	697.937	6.46	0.93	0.67	5	5256.439	544.219	5.93	0.75	0.46	5
5243.486	698.210	6.72	0.99	0.75	5	5257.387	544.317	5.97	0.78	0.49	5
5246.433	698.602	6.04	0.67	0.43	5	5309.227	549.684	6.21	0.94	0.57	6
5250.489	699.142	6.73	1.02	0.77	5	5310.221	549.787	6.31	0.98	0.59	6
5251.439	699.269	6.67	0.92		7						
5257.405	700.063	6.62	0.99	0.75	5						
5282.299	703.378	6.42	0.74		7						
5311.197	707.226	6.65	0.98	0.71	6						
S	MUS	RT MUS				J.D.	CYCLES	V	B-V	U-B	RF
J.D.	CYCLES	V	B-V	U-B	RF						
3776.118	390.956	6.44	0.91		9	4920.369	1594.375	9.07	0.84		7
3777.095	391.057	6.24	0.80		9	4921.377	1594.702	8.90	0.85		7
3852.943	398.910	6.44	0.94		9	5163.515	1673.163	9.31	1.02	0.73	5
3855.888	399.214	6.00	0.73		9	5169.509	1675.105	9.28	1.02	0.75	5
4527.110	468.709	6.25	0.91		9	5176.486	1677.366	9.06	0.86	0.55	5
4544.030	470.460	5.97	0.76		9	5177.495	1677.693	8.85	0.84	0.55	5
4558.031	471.910	6.49	0.95		9	5179.485	1678.338	9.17	0.94	0.62	5
4561.019	472.219	5.99	0.71		9	5201.452	1685.456	8.61	0.69	0.41	5
4563.316	472.457	5.99	0.74		7	5208.517	1687.745	8.91	0.89	0.56	5
4575.286	473.696	6.29	0.94		7	5223.501	1692.601	8.76	0.76		7
4577.327	473.908	6.47	0.95		7	5236.400	1696.780	8.97	0.93	0.59	5
4580.275	474.213	5.96	0.73		7	5238.442	1697.442	8.67	0.70	0.40	5
4588.286	475.042	6.32	0.86		7	5243.418	1699.055	9.25	1.03	0.72	5
4833.142	500.393	5.95	0.76		9	5250.446	1701.332	9.22	0.93	0.60	5
4834.163	500.499	6.04	0.83		9	5256.430	1703.271	9.28	1.00	0.67	5
4834.166	643.706	6.23	0.74		9	5257.374	1703.577	8.63	0.74	0.45	5
						5292.324	1714.902	9.11	0.98	0.68	5

TABLE 1 (continued)

RT	MUS	CONT.				S	NOR	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5309.251	1720.387		9.01	0.83		7		4563.484	467.849	6.57	1.06		7
5328.225	1726.535		8.71	0.67		7		4564.408	467.944	6.43	0.93		7
	TZ MUS							4567.434	468.254	6.18	0.80		7
								4569.440	468.460	6.45	1.01		7
J.D.	CYCLES	V	B-V	U-B	RF			4572.393	468.762	6.78	1.13		7
								4574.357	468.964	6.45	0.91		7
4519.427	913.959	11.69	1.16		7			4577.452	469.281	6.24	0.86		7
4535.394	917.188	11.16	1.74		-7			4578.344	469.373	6.31	0.95		7
4569.308	924.046	11.42	1.14		7			4579.326	469.473	6.49	1.03		7
4578.283	925.861	11.62	1.38		-7			4580.352	469.578	6.62	1.12		7
4867.435	984.336	11.71	1.32		7			4585.276	470.083	6.30	0.85		7
4886.456	988.183	11.49	1.22		7			4586.314	470.190	6.16	0.82		7
4895.438	989.999	11.44	1.24		7			4867.573	499.024	6.33	0.84		7
4916.304	994.219	11.55	1.33		7			4885.513	500.864	6.62	1.01		7
4920.380	995.043	11.40	1.20		7			4886.554	500.970	6.43	0.90		7
5185.545	1048.667	11.17	1.62	1.41	-5			4917.498	504.143	6.25	0.84		7
5188.466	1049.258	11.70	1.33	0.86	-5			5167.624	529.786	6.72	1.11	0.86	5
5189.535	1049.474	11.73	1.54	1.30	-5			5169.620	529.990	6.36	0.90	0.62	5
5195.528	1050.686	12.01	1.35	1.20	-5			5176.607	530.707	6.74	1.15	0.91	5
5217.390	1055.107	11.37	1.14	0.76	6			5177.607	530.809	6.70	1.09	0.83	5
5241.406	1059.964	11.59	1.24	0.75	-5			5184.629	531.529	6.51	1.09	0.85	5
5243.430	1060.373	11.66	1.36	1.14	-5			5188.642	531.940	6.43	0.94	0.66	5
5244.460	1060.582	11.90	1.37		5			5195.640	532.658	6.71	1.14	0.90	5
5245.437	1060.779	12.04	1.50		-5			5201.573	533.266	6.15	0.85	0.58	5
5247.446	1061.186	11.72	1.19	0.79	-5			5205.575	533.676	6.73	1.15	0.91	5
5250.399	1061.783	12.12	1.29		5			5208.614	533.988	6.37	0.90	0.62	5
5270.373	1065.822	12.08	1.37		5			5215.527	534.697	6.75	1.18	0.87	6
5273.255	1066.405	11.70	1.36	1.00	-6			5216.464	534.793	6.73	1.12	0.81	6
5276.265	1067.014	11.39	1.15	0.78	6			5217.467	534.896	6.49	0.99	0.65	6
5285.300	1068.841	12.03	1.45		7			5217.543	534.903	6.51	0.99	0.62	6
5315.243	1074.896	11.92	1.31		7			5223.443	535.508	6.49	1.08	0.79	6
	UU MUS							5236.512	536.848	6.64	1.04	0.76	5
								5238.541	537.056	6.27	0.85	0.58	5
J.D.	CYCLES	V	B-V	U-B	RF			5241.550	537.365	6.29	0.94	0.68	5
4519.442	388.388	9.85	1.10		7			5242.552	537.467	6.42	1.04	0.79	5
4520.421	388.472	9.39	0.89		7			5243.595	537.574	6.56	1.10	0.86	5
4521.351	388.552	9.34	0.90		7			5244.554	537.673	6.69	1.16	0.92	5
4835.543	415.553	9.31	0.92		7			5245.554	537.775	6.76	1.11	0.86	5
4905.443	421.560	9.33	0.98		7			5246.550	537.877	6.56	0.99	0.71	5
4906.421	421.644	9.60	1.11		7			5250.565	538.289	6.19	0.88	0.62	5
4929.324	423.612	9.50	1.08		7			5256.504	538.898	6.51	0.98	0.70	5
5166.491	443.994	10.10	1.45	1.20	-5			5257.453	538.995	6.36	0.88	0.61	5
5188.475	445.883	9.89	1.36	1.08	5			5270.416	540.324	6.23	0.92	0.64	5
5189.539	445.974	10.02	1.43	1.23	-5			5273.347	540.624	6.57	1.16	0.97	6
5195.533	446.489	9.23	0.88	0.56	5			5274.339	540.726	6.75	1.16	0.84	6
5242.461	450.522	9.14	0.86	0.55	5			5275.391	540.834	6.65	1.06	0.74	6
5243.434	450.606	9.48	1.06	0.71	5			5276.348	540.932	6.45	0.96	0.59	6
5245.441	450.778	9.73	1.25	0.96	5			5277.406	541.041	6.28	0.86	0.51	6
5250.456	451.209	10.20	1.44	1.04	-5			5278.397	541.142	6.22	0.86	0.52	6
5272.228	453.080	10.21	1.45	1.25	6			5279.431	541.248	6.11	0.83	0.51	6
5273.260	453.169	10.23	1.38	1.09	6			6806.405	697.794	6.73	1.10	0.80	15
5276.269	453.428	9.69	1.08	0.76	6			6807.405	697.896	6.50	0.98	0.57	15
	S NOR							6812.304	698.398	6.27	0.94	0.58	15
J.D.	CYCLES	V	B-V	U-B	RF		6813.322	698.503	6.45	1.07	0.76	15	
4561.469	467.643	6.65	1.15		7			6816.269	698.805	6.71	1.11	0.78	15
								6818.240	699.007	6.30	0.88	0.52	15
								6819.244	699.110	6.27	0.87	0.50	15

TABLE I (continued)

S	NOR	CONT.				RS	NOR	CONT.									
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF						
6834.250	700.648	6.68	1.17	0.89	15	5243.579	845.992	10.25	1.44	1.17	-5						
6835.269	700.753	6.74	1.13	0.86	15	5244.534	846.146	10.37	1.49	1.08	-5						
6840.264	701.265	6.14	0.86	0.50	15	5245.530	846.307	9.92	1.21	0.86	5						
6848.458	702.105	6.30	0.87	0.48	15	5246.531	846.469	9.67	1.12	0.78	5						
6849.266	702.188	6.11	0.82	0.46	15	5250.544	847.116	10.38	1.45	1.08	-5						
U NOR																	
J.D.	CYCLES	V	B-V	U-B	RF	5276.333	851.277	10.03	1.30	0.92	6						
4562.357	360.908	9.12	1.63		7	5308.360	856.444	9.62	1.13		7						
4563.434	360.993	9.31	1.77		7	5309.256	856.589	9.80	1.24	0.89	6						
4572.348	361.698	8.69	1.38		7	5363.262	865.302	9.94	1.28		-7						
4573.361	361.779	8.89	1.50		7	SY NOR											
4574.304	361.853	9.02	1.62		7	J.D.	CYCLES	V	B-V	U-B	RF						
4578.309	362.170	9.55	1.88		7	4562.395	360.809	9.86	1.48		7						
4885.505	386.471	9.45	1.73		7	4563.444	360.892	9.70	1.44		7						
4886.539	386.553	9.26	1.62		7	4565.404	361.047	9.42	1.30		7						
4922.462	389.394	9.58	1.81		7	4567.386	361.204	9.17	1.27		7						
4925.415	389.628	9.06	1.53		7	4568.316	361.277	9.23	1.36		7						
5166.592	408.706	8.64	1.34	0.91	5	4906.529	388.024	9.51	1.32		7						
5167.579	408.784	8.84	1.44	1.03	5	4919.444	388.092	9.12	1.21		7						
5184.593	410.130	9.45	1.79	1.35	-5	4920.465	389.126	9.02	1.17		7						
5185.658	410.215	9.61	1.79	1.41	-5	4921.431	389.203	9.14	1.28		7						
5188.614	410.448	9.48	1.67	1.19	5	5166.597	408.591	9.71	1.50	1.06	5						
5195.606	411.002	9.19	1.68	1.25	5	5167.584	408.669	9.84	1.48	1.03	5						
5241.513	414.633	9.07	1.49	1.03	5	5184.601	410.015	9.54	1.29	0.89	5						
5242.520	414.713	8.66	1.32	0.88	5	5188.618	410.333	9.29	1.37	0.96	5						
5243.559	414.795	8.88	1.47	1.04	5	5185.664	410.099	9.08	1.16	0.79	5						
5244.519	414.871	9.00	1.54	1.09	5	5195.614	410.886	9.71	1.36	0.94	5						
5245.511	414.949	9.16	1.60	1.18	5	5201.600	411.360	9.37	1.39	1.01	5						
5246.513	415.029	9.27	1.69	1.30	5	5241.518	414.516	9.60	1.48	1.06	5						
5250.534	415.347	9.63	1.77	1.38	-5	5242.528	414.596	9.74	1.46	1.04	5						
5256.481	415.817	8.93	1.51	1.06	5	5243.566	414.678	9.85	1.46	0.94	5						
5273.314	417.149	9.47	1.76	1.44	6	5244.523	414.754	9.87	1.46	0.96	5						
5274.314	417.228	9.61	1.79	1.44	6	5245.515	414.833	9.83	1.41	0.90	5						
5275.344	417.309	9.69	1.77	1.47	6	5246.522	414.912	9.64	1.34	0.90	5						
5276.326	417.387	9.58	1.72	1.35	6	5250.539	415.230	9.15	1.25	0.90	5						
RS NOR																	
J.D.	CYCLES	V	B-V	U-B	RF	5256.486	415.700	9.87	1.44	0.99	5						
4562.449	736.100	10.39	1.53		7	5273.326	417.032	9.45	1.31	0.85	6						
4563.471	736.265	10.06	1.34		7	5274.323	417.111	8.99	1.14	0.73	6						
4564.400	736.415	9.80	1.14		7	TW NOR											
4565.440	736.582	9.84	1.28		7	J.D.	CYCLES	V	B-V	U-B	RF						
4905.554	791.456	9.69	1.16		7	4563.462	423.182	11.76	2.06		7						
4917.469	793.378	9.62	1.14		7	4565.223	423.345	11.27	1.94		7						
4930.435	795.470	9.68	1.15		7	4565.429	423.364	11.50	1.91		7						
4943.289	797.544	9.78	1.22		7	4575.398	424.288	11.58	1.95		7						
5167.596	833.733	10.00	1.32	1.03	5	4576.360	424.378	11.56	1.92		7						
5169.572	834.052	10.31	1.47	1.17	-5	4577.384	424.473	11.17	1.79		-7						
5184.612	836.479	9.68	1.14	0.79	5	4889.464	453.413	11.46	1.87		-7						
5188.629	837.127	10.37	1.48	1.20	-5	5302.298	491.696	11.59	2.01		7						
5195.625	838.256	10.13	1.31	0.92	5	5310.247	492.433	11.39	1.92		7						
5201.592	839.218	10.31	1.40	1.04	-5	-											
5241.530	845.662	9.91	1.32	0.96	5	-											
5242.536	845.824	10.08	1.34	1.09	-5	-											

TABLE I (continued)

UX NOR						Y OPH						CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V
4567.452	1914.496	13.37	0.36		7	3093.788	180.678	6.17	1.39			4569.452	1915.335	14.42	0.40
4569.452	1915.335	14.42	0.40		-7	3094.785	180.736	6.23	1.41			4574.372	1917.397	13.29	0.31
4574.372	1917.397	13.29	0.31		7	3095.792	180.795	6.28	1.40			4575.422	1917.837	13.72	0.78
4575.422	1917.837	13.72	0.78		7	3096.781	180.852	6.34	1.46			4916.415	2060.768	13.58	0.79
4916.415	2060.768	13.58	0.79		-7	3098.771	180.969	6.44	1.48			4920.494	2062.478	13.28	0.45
4920.494	2062.478	13.28	0.45		7	3101.875	181.150	6.40	1.43			4921.447	2062.877	13.99	0.51
4921.447	2062.877	13.99	0.51		-7	3102.792	181.203	6.32	1.39			4931.350	2067.028	14.16	1.12
4931.350	2067.028	14.16	1.12		-7	3103.799	181.262	6.22	1.35			5285.388	2215.427	13.25	0.30
5285.388	2215.427	13.25	0.30		7	3131.722	182.893	6.36	1.49			GU NOR			
						3132.701	182.950	6.40	1.48						
						3152.674	184.117	6.44	1.44						
						3153.684	184.175	6.35	1.40			J.D.	CYCLES	V	B-V
4574.350	1324.820	10.62	1.43		7	3154.677	184.233	6.27	1.37			4575.410	1325.127	10.14	1.19
4575.410	1325.127	10.14	1.19		7	3158.663	184.466	5.97	1.23			4578.351	1325.978	10.27	1.22
4578.351	1325.978	10.27	1.22		7	3159.670	184.525	6.01	1.30			4914.412	1423.308	10.36	1.34
4914.412	1423.308	10.36	1.34		7	4564.524	266.569	6.07	1.35			4917.490	1424.199	10.22	1.24
4917.490	1424.199	10.22	1.24		7	4573.401	267.087	6.34	1.50			4920.474	1425.064	10.10	1.18
4920.474	1425.064	10.10	1.18		7	4579.416	267.438	5.87	1.26			5167.606	1496.638	10.58	1.39
5167.606	1496.638	10.58	1.39	1.02	-5	4585.351	267.785	6.23	1.49			5169.588	1497.212	10.26	1.21
5169.588	1497.212	10.26	1.21	0.93	-5	4586.377	267.845	6.29	1.51			5184.625	1501.567	10.57	1.41
5184.625	1501.567	10.57	1.41	1.05	-5	4587.363	267.902	6.36	1.54			5188.633	1502.728	10.73	1.31
5188.633	1502.728	10.73	1.31	1.05	-5	4901.628	286.256	6.19	1.33			5195.637	1504.756	10.65	1.34
5195.637	1504.756	10.65	1.34	0.95	-5	4921.489	287.415	5.90	1.26			5201.605	1506.485	10.57	1.35
5201.605	1506.485	10.57	1.35	1.06	-5	4953.341	289.276	6.13	1.35			5241.542	1518.051	10.11	1.15
5241.542	1518.051	10.11	1.15	0.79	5	4989.228	291.371	5.94	1.27			5242.548	1518.343	10.37	1.28
5242.548	1518.343	10.37	1.28	0.93	-5	5208.660	304.186	6.32	1.41	1.05	5	5243.588	1518.644	10.60	1.38
5243.588	1518.644	10.60	1.38	1.04	-5	5243.689	306.232	6.26	1.37	1.00	5	5244.543	1518.920	10.42	1.30
5244.543	1518.920	10.42	1.30	0.91	-5	5244.634	306.287	6.13	1.32	0.96	5	5245.550	1519.212	10.23	1.20
5245.550	1519.212	10.23	1.20	0.87	5	5256.550	306.983	6.38	1.48	1.14	5	5246.545	1519.500	10.58	1.35
5246.545	1519.500	10.58	1.35	0.99	-5	5292.380	309.076	6.42	1.47	1.11	5	5250.556	1520.662	10.62	1.36
5250.556	1520.662	10.62	1.36	0.98	-5	5304.322	309.773	6.27	1.44	1.14	6	5256.500	1522.383	10.40	1.31
5256.500	1522.383	10.40	1.31	0.98	-5	5305.350	309.833	6.30	1.47	1.19	6	5274.327	1527.546	10.53	1.36
5274.327	1527.546	10.53	1.36	1.06	6	5306.336	309.891	6.36	1.48	1.20	6	5275.359	1527.845	10.59	1.36
5275.359	1527.845	10.59	1.36	1.05	6	5309.423	310.071	6.40	1.46	1.16	6	5277.382	1528.431	10.42	1.35
5277.382	1528.431	10.42	1.35	1.00	6	5310.436	310.130	6.38	1.45	1.14	6	Y OPH			
						7015.994	409.735	6.20	1.50	1.14	1				
						7021.920	410.081	6.40	1.50	1.16	1	J.D.	CYCLES	V	B-V
2771.694	161.867	6.35	1.46		8	7022.960	410.142	6.34	1.48	1.11	1	2772.708	161.926	6.39	1.49
2772.708	161.926	6.39	1.49		8	7051.903	411.832	6.30	1.47	1.19	1	2773.705	161.985	6.43	1.48
2773.705	161.985	6.43	1.48		8	7052.962	411.894	6.36	1.55	1.22	1	2776.708	162.160	6.36	1.42
2776.708	162.160	6.36	1.42		8	7082.896	413.642	6.08	1.41	1.04	1	2778.728	162.278	6.24	1.32
2778.728	162.278	6.24	1.32		8	7083.955	413.704	6.15	1.44	1.10	1	2780.719	162.394	5.97	1.23
2780.719	162.394	5.97	1.23		8	7087.766	413.926	6.39	1.54	1.23	1	3059.930	178.700	6.21	1.40
3059.930	178.700	6.21	1.40		8	7091.776	414.160	6.32	1.45	1.12	1	3060.938	178.759	6.26	1.41
3060.938	178.759	6.26	1.41		8	7093.817	414.280	6.16	1.36	1.03	1	3061.919	178.816	6.29	1.43
3061.919	178.816	6.29	1.43		8	7094.772	414.335	6.01	1.30	0.95	1	3062.924	178.875	6.34	1.48
3062.924	178.875	6.34	1.48		8	7099.838	414.631	6.07	1.38	1.05	1	3063.906	178.932	6.40	1.49
3063.906	178.932	6.40	1.49		8	7102.842	414.807	6.26	1.51	1.17	1	3069.889	179.282	6.22	1.31
3069.889	179.282	6.22	1.31		8	7130.726	416.435	5.94	1.26	0.94	1	3083.854	180.097	6.46	1.45
3083.854	180.097	6.46	1.45		8	7135.744	416.728	6.17	1.44	1.10	1	3087.852	180.331	6.08	1.27
3087.852	180.331	6.08	1.27		8	7453.922	435.310	6.03	1.30	0.98	1	3089.837	180.447	5.94	1.23
3089.837	180.447	5.94	1.23		8	7455.804	435.420	5.94	1.25	0.98	1	3090.835	180.505	6.00	1.26
3090.835	180.505	6.00	1.26		8	7458.762	435.592	6.07	1.36	1.08	1	3091.809	180.562	6.07	1.32
3091.809	180.562	6.07	1.32		8	7518.637	439.089	6.33	1.49	1.21	1	3092.816	180.621	6.09	1.32
3092.816	180.621	6.09	1.32		8	7521.727	439.270	6.18	1.39	1.05	1				

TABLE 1 (continued)

Y	OPH	CONT.				BH	OPH	CONT.				
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B
7523.690	439.384	5.95	1.27	0.98	1	6752.724	610.846	12.01	0.56	3		
	BF OPH					6775.707	612.926	11.69	0.47	0.43	3	
	J.D.					6776.686	613.014	11.63	0.51	0.38	3	
						6777.712	613.107	11.79	0.56	0.35	3	
						6778.686	613.195	11.99	0.75		3	
4585.322	1127.219	7.54	1.02		7	6779.819	613.297	12.22	0.78		3	
4586.324	1127.465	7.61	0.98		7	6784.691	613.738	12.44	0.69		3	
4587.306	1127.706	7.04	0.68		7	6791.783	614.380	12.23	0.78		3	
4901.560	1204.960	7.38	0.88		7	6805.670	615.636	12.42	0.87		3	
4905.612	1205.956	7.33	0.90		7	6807.655	615.815	12.21	0.45	0.30	3	
4916.431	1208.616	7.09	0.71		7	6808.663	615.907	11.78	0.45	0.28	3	
4917.509	1208.881	7.24	0.86		7	6809.668	615.998	11.64	0.43	0.36	3	
4941.204	1214.706	7.03	0.71		7	6815.663	616.540	12.39	0.83	0.55	3	
5176.621	1272.579	7.21	0.79	0.49	5							
5177.597	1272.819	7.17	0.82	0.53	5							
						558 OPH						
5184.653	1274.553	7.33	0.83	0.54	5	J.D.	CYCLES	V	B-V	U-B	RF	
5201.628	1278.726	7.04	0.73	0.45	5	7453.775	2574.511	13.23	0.67	0.40	1	
5205.606	1279.704	7.02	0.72	0.44	5	7455.751	2575.193	12.99	0.59	0.36	1	
5238.571	1287.808	7.17	0.81	0.53	5	7458.724	2576.220	12.97	0.66	0.42	1	
5241.584	1288.549	7.34	0.85	0.55	5	7460.729	2576.913	12.79	0.57	0.42	1	
5242.592	1288.797	7.14	0.80	0.51	5	7462.763	2577.615	13.00	0.65	0.40	1	
5243.644	1289.055	7.43	0.98	0.70	5	7470.738	2580.370	13.22	0.67	0.48	1	
5244.587	1289.287	7.60	1.03	0.74	5	7471.825	2580.745	12.73	0.58	0.38	1	
5245.591	1289.534	7.39	0.87	0.57	5	7472.752	2581.065	13.01	0.48	0.40	1	
5304.260	1303.956	7.33	0.95	0.66	6							
5305.314	1304.216	7.58	1.01	0.67	6							
7056.853	1734.800	7.17	0.81	0.43	1							
7083.837	1741.433	7.58	0.99	0.58	1							
7087.797	1742.407	7.66	1.02	0.67	1							
						RS ORI						
						J.D.	CYCLES	V	B-V	U-B	RF	
7099.854	1745.371	7.62	1.01	0.66	1	4580.246	605.307	8.14	0.87		7	
7100.765	1745.595	7.09	0.75	0.38	1	4784.318	632.277	8.19	0.83		7	
7102.797	1746.094	7.48	0.99	0.63	1	5166.283	682.756	8.47	1.12	0.83	5	
7132.733	1753.454	7.71	1.03	0.62	1	5167.289	682.889	8.64	1.18	0.92	5	
7135.668	1754.175	7.60	1.04	0.69	1	5169.283	683.152	8.69	1.09	0.77	5	
7142.649	1755.891	7.28	0.87	0.53	1	5176.288	684.078	8.80	1.16	0.85	5	
7143.651	1756.138	7.54	1.00	0.68	1	5201.247	687.377	8.03	0.81	0.50	5	
7145.659	1756.631	7.06	0.72	0.41	1	5209.237	688.432	8.11	0.88	0.56	5	
7147.640	1757.118	7.50	1.00	0.65	1							
7148.637	1757.363	7.63	1.01	0.63	1							
						5532.373	731.137	8.70	1.11		7	
						5535.284	731.522	8.29	0.93		7	
7162.646	1760.807	7.30	0.82	0.46	1	5567.254	735.747	8.48	1.12		7	
7453.735	1832.366	7.65	1.03	0.63	1	5573.262	736.541	8.26	0.93		7	
7454.701	1832.603	7.26	0.69	0.47	1	5574.230	736.668	8.32	0.99		7	
7455.724	1832.855	7.21	0.84	0.52	1							
7458.688	1833.584	7.14	0.71	0.42	1							
7459.722	1833.838	7.25	0.84	0.52	1	6812.992	900.378	8.02	0.84	0.60	2	
7460.706	1834.080	7.49	0.97	0.62	1	6813.969	900.508	8.18	0.93	0.63	2	
7462.727	1834.577	7.20	0.76	0.41	1	6816.979	900.905	8.29	0.97	0.62	2	
7469.700	1836.291	7.66	1.03	0.72	1	6817.980	901.038	8.84	1.19	0.81	2	
7470.693	1836.535	7.41	0.87	0.52	1	6818.952	901.166	8.64	1.08	0.68	2	
7472.717	1837.032	7.44	0.96	0.62	1	6819.951	901.298	8.06	0.81	0.53	2	
7523.670	1849.558	7.35	0.84	0.52	1	6833.981	903.152	8.69	1.08	0.74	2	
						6834.966	903.282	8.11	0.84	0.55	2	
						6852.981	905.663	8.30	1.02	0.67	2	
						6853.965	905.793	8.61	1.10		2	
						6856.956	906.189	8.57	1.03		2	
6751.713	610.755	12.41	0.63		3	6857.915	906.315	8.03	0.78		2	
						6858.969	906.455	8.18	0.88		2	

TABLE I (continued)

RS	ORI	CONT.				$\kappa$	PAV	HD	174694	CONT.	
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7014.679	927.033	8.80	1.19	0.89	1	3928.906	433.195	4.57	0.62		9
						3946.913	435.181	4.55	0.64		9
7015.588	927.153	8.66	1.08	0.69	1	3948.913	435.401	4.01	0.47		9
7020.613	927.817	8.59	1.13	0.80	1						
7022.598	928.079	8.82	1.15	0.81	1	3980.920	438.930	4.75	0.92		9
7023.652	928.218	8.43	0.95	0.59	1	3983.917	439.261	4.33	0.56		9
7024.597	928.343	8.03	0.77	0.51	1	4561.166	502.907	4.75	0.90		9
						4848.128	534.547	4.02	0.56		9
						4910.090	541.379	4.04	0.46		9
7043.626	930.858	8.63	1.14	0.84	1						
7049.644	931.653	8.27	0.93	0.70	1	4918.143	542.267	4.49	0.61		9
7240.815	956.918	8.71	1.20	0.83	1	4920.244	542.499	3.98	0.52		9
						4921.119	542.595	4.11	0.60		9
						4925.108	543.035	4.78	0.88		9
						4951.001	545.890	4.64	0.91		9
CR ORI											
J.D.	CYCLES	V	B-V	U-B	RF						
7593.990	1546.401	12.03	1.05	0.75	1	4959.978	546.880	4.66	0.91		9
7597.870	1547.191	12.37	1.14	0.60	1	4982.004	549.308	4.37	0.54		9
7601.807	1547.993	12.56	1.24	0.88	1	5002.031	551.516	4.00	0.51		9
7619.876	1551.673	12.31	1.22	0.81	1	5004.002	551.734	4.41	0.77		9
7634.941	1554.740	12.26	1.19	0.91	1	5013.013	552.727	4.38	0.81		9
7645.857	1556.963	12.58	1.22	0.89	1	5013.984	552.834	4.56	0.89		9
7647.733	1557.345	11.98	0.99	0.66	1	5014.962	552.942	4.75	0.93		9
7649.852	1557.777	12.44	1.22	0.77	1	5238.635	577.604	4.07	0.58	0.37	5
7654.731	1558.770	12.33	1.25	0.98	1	5242.607	578.042	4.77	0.87	0.67	5
7656.709	1559.173	12.40	1.11	0.66	1	5244.702	578.273	4.51	0.59	0.37	5
7663.707	1560.598	12.24	1.18	0.75	1	5246.607	578.483	3.95	0.46	0.25	5
						5256.706	579.596	4.07	0.57	0.36	5
CS ORI						5292.433	583.535	4.00	0.51	0.32	5
J.D.	CYCLES	V	B-V	U-B	RF	5302.460	584.641	4.12	0.63		7
6852.974	1761.966	11.58	1.01	0.59	2	5304.474	584.863	4.59	0.89	0.73	6
6853.959	1762.220	11.03	0.80		2	5305.454	584.971	4.74	0.92	0.80	6
6856.949	1762.988	11.52	0.93		2	5308.021	585.254	4.53	0.65		9
6857.901	1763.233	11.07	0.82		2	5348.370	589.703	4.23	0.69		7
6858.964	1763.506	11.51	1.03		2	5349.258	589.801	4.47	0.82		7
						5365.201	591.570	3.98	0.50		7
7597.883	1953.490	11.52	0.99	0.60	1	5370.291	592.120	4.70	0.75		7
7600.876	1954.259	11.14	0.84	0.62	1	5372.268	592.338	4.19	0.48		7
7601.823	1954.503	11.50	1.00	0.65	1	5626.470	620.366	4.04	0.42		7
7619.900	1959.150	10.89	0.74	0.58	1	5627.503	620.480	3.95	0.45		7
7623.850	1960.166	10.91	0.75	0.62	1	5628.480	620.588	4.06	0.58		7
7635.831	1963.246	11.16	0.85	0.62	1	5629.548	620.705	4.30	0.72		7
7645.889	1965.832	11.72	1.05	0.77	1	5636.505	621.472	3.91	0.44		7
7647.751	1966.311	11.26	0.91	0.58	1						
7648.857	1966.596	11.61	1.00	0.84	1						
7660.733	1969.649	11.65	1.05	0.66	1						
RS	PAV					J.D.	CYCLES	V	B-V	U-B	RF
7661.702	1969.898	11.74	1.06	0.68	1	5201.654	260.682	11.11	1.26	1.09	-5
7663.719	1970.417	11.38	1.02	0.60	1	5243.677	262.788	10.99	1.11	0.97	-5
						5244.643	262.837	10.92	1.03	0.68	-5
						5246.612	262.935	10.74	0.90	0.61	5
						5256.680	263.440	10.37	1.18	1.03	-5
$\kappa$	PAV	HD	174694								
J.D.	CYCLES	V	B-V	U-B	RF						
3777.295	416.479	4.10	0.51		9	5275.375	264.377	10.15	1.03	0.96	6
3852.177	424.735	4.48	0.86		9	5276.438	264.430	10.28	1.14	1.03	6
3853.167	424.844	4.73	0.91		9	5304.340	265.828	11.26	1.20	0.99	6
3856.170	425.175	4.61	0.62		9	5305.360	265.880	11.10	1.09	0.84	6
3898.042	429.792	4.61	0.88		9	5306.318	265.928	10.97	1.02	0.74	6
						5309.370	266.081	10.32	0.78	0.47	6
3917.017	431.884	4.75	0.92		9	5310.344	266.129	10.17	0.78	0.47	6
3923.903	432.643	4.37	0.72		9	3119.872	1301.101	9.34	0.96		9

TABLE 1 (continued)

AU PEG				SV PER				CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
3122.861	1302.348	9.10	0.81		9	4335.042	389.531	8.59	0.85		9
3123.854	1302.762	9.10	0.93		9	4337.012	389.708	8.80	1.03		9
3125.854	1303.596	9.03	0.81		9	4341.958	390.152	9.34	1.14		9
3126.844	1304.009	9.27	0.96		9	4418.816	397.059	9.35	1.11		9
3148.809	1313.169	9.26	0.93		9	4424.783	397.595	8.69	0.92		9
3151.778	1314.407	9.00	0.77		9	4425.769	397.683	8.78	1.03		9
3153.893	1315.289	9.09	0.86		9	7215.847	648.390	8.99	1.06	0.49	1
3154.858	1315.692	9.04	0.89		9	7592.869	682.267	9.11	1.10	0.56	1
3158.762	1317.320	9.08	0.82		9	7597.827	682.713	8.78	1.04	0.62	1
3179.705	1326.054	9.33	0.94		9	7600.765	682.977	9.18	1.19	0.67	1
3180.701	1326.469	9.08	0.78		9	7601.767	683.067	9.30	1.19	0.62	1
5348.370	2230.467	9.13	0.84		7	7619.759	684.684	8.73	1.05	0.64	1
5364.352	2237.132	9.15	0.74		7	7621.770	684.864	8.99	1.16	0.69	1
5643.458	2353.530	9.42	0.87		7	7623.688	685.037	9.22	1.24	0.62	1
5654.469	2358.122	9.20	0.88		7	7625.723	685.220	9.26	1.13	0.62	1
5661.464	2361.039	9.14	0.87		7	7626.752	685.312	9.05	1.08	0.55	1
5668.521	2363.982	9.12	0.86		7	7634.890	686.043	9.25	1.24	0.61	1
5681.422	2369.362	9.46	0.93		7	7635.698	686.116	9.38	1.23	0.60	1
5682.457	2369.794	9.07	0.73		7	7645.804	687.024	9.22	1.21	0.62	1
5683.452	2370.209	9.29	0.94		7	7646.708	687.105	9.26	1.26	0.60	1
5686.451	2371.459	9.42	0.91		7	7652.763	687.649	8.70	1.01	0.55	1
5687.477	2371.887	9.11	0.81		7	7653.736	687.737	8.80	1.06	0.65	1
5688.382	2372.265	9.39	0.93		7	SX PER					
5689.372	2372.677	9.10	0.71		7	7654.702	687.823	8.92	1.14	0.67	1
7131.917	2974.272	9.31	0.97	0.71	1	7655.722	687.915	9.07	1.19	0.68	1
7142.869	2978.839	9.05	0.74	0.49	1	7656.667	688.000	9.22	1.20	0.64	1
7143.899	2979.269	9.29	0.94	0.66	1	7658.703	688.183	9.28	1.18	0.46	1
7144.861	2979.670	9.23	0.79	0.48	1	J.D. CYCLES V B-V U-B RF					
7147.879	2980.929	9.07	0.81		1	7178.814	2993.830	9.02	0.77	0.49	1
7183.772	2995.897	9.04	0.80		1	6796.979	1584.339	11.41	1.33		2
7189.726	2998.380	9.42	0.93	0.63	1	6809.896	1587.350	11.42	1.31	0.82	2
7189.734	2998.384	9.42	0.93	0.63	1	6810.959	1587.598	11.38	1.27	0.81	2
7191.781	2999.237	9.31	0.94	0.67	1	6811.947	1587.828	10.83	0.99	0.67	2
7205.733	3005.056	9.18	0.90	0.63	1	6812.855	1588.040	11.14	1.17	0.83	2
7215.679	3009.203	9.32	0.97	0.65	1	6813.874	1588.278	11.29	1.30	0.87	2
7228.676	3014.624	9.09	0.73	0.47	1	6814.870	1588.510	11.52	1.31	0.89	2
7233.731	3016.732	9.05	0.74	0.52	1	6815.899	1588.750	10.85	0.97	0.58	2
7239.686	3019.215	9.32	0.93	0.68	1	6816.867	1588.975	11.05	1.17	0.75	2
7240.692	3019.635	9.11	0.74	0.47	1	6817.915	1589.219	11.30	1.28	0.87	2
7241.700	3020.055	9.19	0.90	0.68	1	6817.957	1589.229	11.30	1.28	0.89	3
7472.934	3116.488	9.07	0.79	0.54	1	6818.871	1589.442	11.49	1.31	0.84	2
7515.885	3134.400	9.07	0.78	0.57	1	6818.907	1589.451	11.48	1.31	1.00	3
7521.872	3136.897	9.50	0.96	0.67	1	6819.877	1589.677	10.97	1.06	0.66	2
7523.813	3137.707	9.29	0.94	0.63	1	6819.918	1589.686	10.89	1.03	0.67	3
SV PER				J.D. CYCLES V B-V U-B RF				6833.895 1592.944 11.01 1.12 0.79 2			
J.D. CYCLES V B-V U-B RF				6834.884 1593.175 11.28 1.31 0.84 2				6836.926 1593.651 11.15 1.09 0.73 2			
2860.865	257.067	9.37	1.14		9	6844.934	1595.517	11.50	1.29	0.89	3
2883.938	259.140	9.34	1.11		9	6845.939	1595.752	10.72	0.97	0.72	3
2885.979	259.324	9.03	0.98		9	6846.936	1595.984	11.04	1.17	0.69	3
2887.947	259.500	8.58	0.80		9	6848.946	1596.453	11.52	1.26		3
2944.896	264.618	8.69	0.93		9	6849.931	1596.682	10.90	1.03	0.82	3
2947.791	264.878	9.04	1.12		9	6852.848	1597.362	11.45	1.30	0.94	2
3178.962	285.650	8.74	0.97		9	6853.863	1597.599	11.38	1.26	0.76	2
3181.021	285.835	8.99	1.12		9	6858.869	1598.766	10.72	0.96		4

TABLE 1 (continued)

UX PER						UY PER						CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V
6827.947	1495.422	11.16	0.84		4	6818.894	1270.980	11.15	1.56	1.09	3				
6836.841	1497.370	11.07	0.79	0.59	2	6819.876	1271.163	11.44	1.70		3				
6837.785	1497.577	11.49	0.99		4	6827.794	1272.639	11.38	1.56		4				
6843.852	1498.905	11.88	1.17		4	6827.970	1272.671	11.13	1.44		4				
						6830.949	1273.227	11.53	1.67		4				
6847.780	1499.766	11.74	1.12		4										
6847.904	1499.793	11.79	1.11		4	6832.910	1273.592	11.53	1.63		4				
6849.805	1500.209	11.76	1.02	0.69	2	6836.863	1274.329	11.64	1.72		2				
6852.795	1500.864	11.78	1.10	0.42	2	6837.803	1274.504	11.73	1.80		4				
6853.819	1501.088	11.98	1.12	0.66	2	6837.970	1274.535	11.73	1.76		4				
						6843.872	1275.635	11.32	1.58		4				
6856.752	1501.731	11.12	1.10		2										
6857.775	1501.955	11.96	1.08		2	6844.909	1275.829	10.93	1.39	1.11	-3				
6866.822	1503.936	11.92	1.14		4	6845.893	1276.012	11.25	1.55		3				
6867.806	1504.152	11.99	1.16		4	6846.893	1276.199	11.47	1.66		3				
6869.851	1504.600	11.54	1.02		4	6847.794	1276.366	11.64	1.74		4				
						6847.920	1276.390	11.66	1.71		4				
6876.868	1506.136	11.98	1.16		4										
6879.815	1506.782	11.71	1.12		4	6848.895	1276.572	11.61	1.71		3				
6880.810	1507.000	11.98	1.19		4	6849.791	1276.739	10.86	1.36	1.04	2				
6941.653	1520.325	11.12	0.81		4	6849.914	1276.762	10.86	1.35		3				
6942.643	1520.542	11.44	0.96		4	6852.802	1277.300	11.57	1.72		2				
						6853.807	1277.487	11.72	1.72		2				
6948.626	1521.852	11.84	1.12		4										
6949.703	1522.088	12.07	1.19		4	6856.742	1278.034	11.24	1.60		2				
6954.647	1523.171	12.00	1.14		4	6857.709	1278.215	11.48	1.67		2				
6955.587	1523.377	11.14	0.79		4	6858.808	1278.419	11.64	1.76		2				
6972.626	1527.109	12.07	1.25		4	6866.848	1279.918	11.09	1.49		4				
						6867.853	1280.105	11.37	1.65		4				
6975.619	1527.764	11.80	1.13		4										
6977.624	1528.203	11.90	1.10		4	6869.896	1280.486	11.72	1.74		4				
6978.608	1528.419	11.18	0.85		4	6876.885	1281.789	10.84	1.36		4				
6978.651	1528.428	11.22	0.87		4	6879.860	1282.343	11.58	1.74		4				
6979.615	1528.640	11.60	1.04		4	6880.831	1282.524	11.67	1.76		4				
						6942.655	1294.048	11.28	1.59		4				
6980.615	1528.859	11.90	1.13		4										
6981.606	1529.076	12.05	1.20		4	6948.640	1295.163	11.46	1.66		4				
6982.621	1529.298	11.21	0.82		4	6951.680	1295.730	10.84	1.36		4				
6983.657	1529.525	11.38	0.94		4	6953.667	1296.100	11.32	1.64		4				
7215.750	1580.357	11.10	0.75	0.52	1	6954.589	1296.272	11.52	1.70		4				
						6971.650	1299.452	11.71	1.76		4				
7593.831	1663.162	11.48	0.70	0.38	1										
7597.798	1664.031	12.00	1.13	0.76	1	6972.645	1299.638	11.30	1.63		4				
7600.750	1664.677	11.67	1.02	0.75	1	6977.641	1300.569	11.59	1.69		4				
7601.672	1664.879	11.94	1.13	0.74	1	6978.630	1300.753	10.81	1.37		4				
7619.738	1668.836	11.81	1.15	0.76	1	6978.654	1300.758	10.83	1.38		4				
						6980.628	1301.126	11.34	1.64		4				
7623.712	1669.706	11.65	1.09	0.76	1										
7625.726	1670.147	11.95	1.21	0.82	1	6981.626	1301.312	11.56	1.71		4				
7626.730	1670.367	11.08	0.81	0.60	1	7215.766	1344.953	11.19	1.42	1.15	1				
7635.669	1672.325	11.14	0.79	0.59	1	7267.704	1354.634	11.32	1.57	1.16	1				
7645.775	1674.538	11.41	0.93	0.63	1										
7646.675	1674.736	11.64	1.15	0.73	1										
7649.747	1675.408	11.17	0.85	0.59	1										
7655.703	1676.713	11.70	1.09	0.74	1	6766.916	621.120	9.09	1.15	0.76	3				
7658.687	1677.366	11.02	0.85	0.46	1	6768.967	621.308	9.05	1.11		3				
7663.662	1678.456	11.25	0.85	0.62	1	6774.981	621.860	9.56	1.36		3				
						6784.993	622.779	9.71	1.42		3				
UY PER						J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V
J.D.	CYCLES	V	B-V	U-B	RF	6796.914	623.873	9.53	1.30		2				
6812.984	1269.878	11.05	1.45	1.22	3	6797.965	623.970	9.28	1.15		2				
6813.979	1270.064	11.29	1.70		3	6805.976	624.705	9.65	1.45		3				
6815.962	1270.433	11.74	1.80		3	6806.965	624.796	9.63	1.37	1.02	2				
6816.967	1270.621	11.44	1.63	1.08	3	6808.876	624.971	9.30	1.17	0.82	2				
6817.907	1270.796	10.88	1.36	1.13	3	6808.963	624.979	9.30	1.20	0.82	3				

TABLE I (continued)

VX	PER	CONT.				AS	PER	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6809.835	625.059	9.12	1.08	0.69	2	6808.952	1369.294	9.96	1.52	1.18	2
6809.977	625.072	9.10	1.10	0.78	3	6809.905	1369.486	10.11	1.53	1.18	2
6810.888	625.156	9.13	1.17	0.84	2	6810.967	1369.699	9.21	1.18	0.91	2
6810.984	625.165	9.15	1.14	0.84	3	6811.959	1369.899	9.49	1.31	0.99	2
6811.901	625.249	9.00	1.08	0.73	2	6812.874	1370.083	9.77	1.42	1.06	2
6812.838	625.335	9.13	1.15	0.79	2	6812.998	1370.108	9.77	1.46	1.07	3
6813.766	625.420	9.23	1.24	0.91	2	6813.885	1370.286	9.90	1.53	1.14	2
6813.931	625.435	9.24	1.30	0.92	3	6813.992	1370.308	9.93	1.55	1.20	3
6814.848	625.519	9.37	1.32	0.96	2	6814.879	1370.486	10.12	1.56	1.14	2
6814.953	625.529	9.38	1.38	1.07	3	6814.996	1370.510	10.06	1.50	1.13	3
6815.840	625.610	9.50	1.37	1.06	2	6815.906	1370.693	9.22	1.15	0.91	2
6816.842	625.702	9.64	1.41	1.08	2	6815.990	1370.710	9.19	1.15	0.88	3
6817.833	625.793	9.66	1.37	1.00	2	6816.981	1370.909	9.47	1.33	0.94	3
6817.886	625.798	9.67	1.41	1.13	3	6817.923	1371.098	9.78	1.44	1.08	2
6818.822	625.884	9.47	1.26	0.88	3	6818.880	1371.291	9.97	1.52	1.12	2
6818.823	625.884	9.50	1.27	0.87	2	6819.884	1371.493	10.10	1.54	1.14	2
6819.868	625.980	9.28	1.18	0.81	3	6833.924	1374.316	9.97	1.53	1.21	2
6820.802	626.066	9.10	1.08	0.75	2	6834.898	1374.512	10.03	1.49	1.23	2
6833.861	627.265	8.96	1.05	0.79	2	6836.919	1374.918	9.48	1.33	1.02	2
6844.900	628.278	8.97	1.08	0.74	3	6844.966	1376.537	10.03	1.46	1.07	3
6845.879	628.368	9.19	1.20	0.82	3	6845.947	1376.734	9.24	1.16	0.91	3
6845.892	628.369	9.06	1.19	0.87	2	6846.952	1376.936	9.52	1.35	1.00	3
6846.860	628.458	9.23	1.26	0.91	2	6848.955	1377.339	10.01	1.52	1.20	3
6846.884	628.460	9.28	1.27	0.87	3	6849.960	1377.541	10.01	1.45	1.13	3
6848.886	628.644	9.60	1.43	1.12	3	6852.841	1378.120	9.78	1.48	1.10	2
6849.777	628.725	9.61	1.39	1.10	2	6853.856	1378.324	9.98	1.54	1.14	2
6849.899	628.737	9.71	1.43	1.14	3	6854.867	1378.528	10.00	1.52		2
6852.767	629.000	9.28	1.13	0.77	2	6856.827	1378.922	9.53	1.33		2
6853.790	629.094	9.08	1.09	0.78	2	6857.793	1379.116	9.77	1.44		2
6856.724	629.363	9.16	1.21		2	6858.862	1379.331	9.97	1.55		2
6857.691	629.452	9.27	1.26		2	AW PER					
VY	PER	-				J.D.	CYCLES	V	B-V	U-B	RF
J.D.	CYCLES	V	B-V	U-B	RF	6806.995	1053.163	7.53	1.09	0.63	3
6940.729	1254.664	11.11	1.56		4	6808.000	1053.319	7.06	0.92	0.63	3
6941.656	1254.831	10.80	1.47		4	6808.960	1053.467	7.28	1.03	0.72	2
6942.650	1255.011	11.07	1.63		4	6809.007	1053.475	7.29	1.05	0.68	3
6948.629	1256.092	11.18	1.69		4	6809.918	1053.616	7.44	1.13	0.71	2
6949.706	1256.287	11.43	1.76		4	6809.990	1053.627	7.42	1.13	0.69	3
6951.671	1256.642	11.21	1.64		4	6810.973	1053.779	7.65	1.24	0.77	2
6953.660	1257.001	11.05	1.60		4	6810.996	1053.782	7.65	1.21	0.71	3
6954.653	1257.181	11.29	1.71		4	6811.967	1053.933	7.80	1.23	0.76	2
6955.644	1257.360	11.55	1.76		4	6811.976	1053.934	7.78	1.24	0.73	3
6971.636	1260.251	11.35	1.72		4	6812.884	1054.075	7.82	1.20	0.70	2
6972.632	1260.431	11.56	1.74		4	6813.006	1054.093	7.80	1.19	0.67	3
6975.624	1260.972	11.06	1.56		4	6813.892	1054.230	7.12	0.96	0.59	2
6977.627	1261.334	11.44	1.74		4	6814.001	1054.247	7.08	0.93	0.61	3
6979.619	1261.694	10.93	1.49		4	6814.888	1054.385	7.18	0.98	0.62	2
6980.618	1261.875	10.84	1.50		4	6815.004	1054.403	7.17	1.00	0.65	3
6981.613	1262.054	11.14	1.64		4	6815.915	1054.543	7.35	1.10	0.69	2
6982.627	1262.238	11.30	1.72		4	6816.883	1054.693	7.48	1.17	0.70	2
						6817.931	1054.855	7.70	1.22	0.75	2
						6818.888	1055.003	7.84	1.22	0.75	2
AS	PER	-				J.D.	CYCLES	V	B-V	U-B	RF
						6818.958	1055.014	7.84	1.22	0.71	3
						6819.893	1055.159	7.57	1.09	0.62	2
6807.967	1369.096	9.73	1.45	1.06	2	6819.927	1055.164	7.53	1.09	0.63	3

TABLE 1 (continued)

AW	PER	CONT.				X	PUP	CONT.					
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6833.837	1057.316	7.09	0.94	0.59	2		5165.330	198.965	7.98	1.05	0.72	5	
6834.994	1057.495	7.34	1.09	0.68	2		5166.356	199.005	8.08	1.10	0.82	5	
							5187.390	199.815	8.36	1.03		-7	
6836.933	1057.795	7.71	1.21	0.70	2		5188.374	199.853	7.91	0.87		7	
6844.974	1059.039	7.84	1.22	0.66	3		5195.318	200.120	8.33	1.32	1.03	5	
6845.954	1059.191	7.42	1.04	0.61	3								
6846.959	1059.347	7.10	0.94	0.54	3		5201.277	200.350	8.71	1.51	1.21	5	
6848.962	1059.656	7.46	1.14	0.68	3		5208.274	200.619	9.03	1.52	1.21	5	
							5209.297	200.659	9.11	1.55	1.23	5	
6849.967	1059.812	7.73	1.23	0.69	3		5242.253	201.928	7.96	0.96	0.61	5	
6852.855	1060.259	7.08	0.90	0.60	2		7015.628	270.237	8.48	1.42	1.17	1	
6853.870	1060.416	7.20	1.01	0.67	2								
6856.837	1060.875	7.78	1.22		2		7020.646	270.431	8.82	1.55	1.42	1	
6857.805	1061.025	7.88	1.22		2		7022.635	270.507	8.98	1.53	1.42	1	
							7023.627	270.545	8.97	1.54	1.44	1	
6858.876	1061.190	7.44	1.04		2		7049.627	271.547	8.86	1.52	1.48	1	
7240.804	1120.281	7.05	0.93	0.53	1		7315.804	281.800	8.85	1.30	0.96	1	
7273.868	1125.397	7.22	0.95	0.56	1								
							7600.960	292.784	9.05	1.38	1.12	1	
	DW PER						7601.919	292.821	8.48	1.11	0.82	1	
	J.D.	CYCLES	V	B-V	U-B	RF		7635.930	294.131	8.36	1.27	1.04	1
								7648.946	294.632	9.01	1.52	1.32	1
								7653.904	294.823	8.41	1.04	0.77	1
6832.903	1871.962	11.83	1.25		4								
6837.798	1873.303	11.35	1.07		4		7654.879	294.861	7.94	0.85	0.62	1	
6837.943	1873.342	11.38	1.11		4		7656.770	294.934	8.01	0.92	0.66	1	
6843.868	1874.966	11.79	1.26		4		7661.798	295.127	8.29	1.28	1.03	1	
6847.791	1876.040	11.66	1.15		4		7663.805	295.205	8.41	1.37	1.17	1	
6866.843	1881.260	11.26	1.04		4			RS PUP					
6867.845	1881.534	11.63	1.20		4			J.D.	CYCLES	V	B-V	U-B	RF
6869.889	1882.094	11.41	1.06		4			3764.979	90.986	7.09	1.62		9
6876.880	1884.010	11.76	1.20		4			3775.915	91.250	7.57	1.71		9
6879.852	1884.824	11.80	1.28		4			3776.906	91.274	7.61	1.70		9
								3777.943	91.299	7.63	1.72		9
6880.826	1885.091	11.44	1.07		4			3778.917	91.322	7.57	1.67		9
6940.732	1901.503	11.60	1.18		4								
6941.583	1901.736	11.77	1.28		4								
6948.633	1903.667	11.74	1.29		4								
6949.710	1903.962	11.91	1.30		4								
6951.676	1904.501	11.55	1.22		4								
6954.659	1905.318	11.35	1.07		4								
6971.645	1909.972	11.88	1.25		4								
6972.640	1910.244	11.28	1.04		4								
6977.638	1911.614	11.71	1.25		4								
	X PUP												
	J.D.	CYCLES	V	B-V	U-B	RF							
4833.297	186.175	8.41	1.38		7		4828.931	116.697	6.67	1.33		9	
4834.260	186.212	8.47	1.41		7		4829.996	116.723	6.68	1.38		9	
4835.237	186.250	8.55	1.45		7		4833.046	116.797	6.79	1.44		9	
4865.262	187.407	8.83	1.58		7		4834.026	116.820	6.86	1.46		9	
4867.241	187.483	8.90	0.85		7		4840.051	116.966	7.06	1.58		9	
4869.249	187.560	8.97	1.55		7		4840.991	116.989	7.09	1.60		9	
4905.226	188.946	8.02	0.99		-7		4844.035	117.062	7.20	1.69		9	
4906.212	188.984	8.19	1.01		-7		4844.978	117.085	7.20	1.67		9	
4907.215	189.023	8.28	1.16		-7		4847.985	117.158	7.36	1.67		9	
5161.328	198.811	8.47	1.09	0.76	5		4855.979	117.351	7.62	1.71		9	

TABLE I (continued)

RS	PUP	CONT.				VW	PUP	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4859.003	117.424	7.38	1.55		9	5165.324	1205.488	11.00	1.06	0.69	-5
4866.271	117.600	6.49	1.14		7	5166.340	1205.725	11.36	1.21	0.93	-5
4867.298	117.624	6.54	1.20		7	5167.344	1205.960	11.57	1.31	0.92	-5
4867.964	117.641	6.59	1.21		9	5195.309	1212.486	11.09	1.01	0.71	-5
4869.340	117.674	6.68	1.31		7	5209.283	1215.747	11.40	1.22	0.87	-5
4871.987	117.738	6.68	1.39		9	5223.270	1219.012	11.63	1.26		7
4872.972	117.762	6.72	1.45		9	5238.251	1222.508	11.20	0.96	0.63	-5
4907.230	118.589	6.62	1.18		7						
4908.216	118.613	6.61	1.19		-7	5239.238	1222.738	11.37	1.23	0.87	-5
4913.216	118.734	6.63	1.38		-7	5242.243	1223.440	11.02	0.93	0.64	-5
5160.025	124.699	6.62	1.33		9	5555.402	1296.525	11.12	0.99		7
5161.390	124.732	6.70	1.36	1.05	5	5567.320	1299.306	11.28	1.11		7
5169.365	124.924	7.01	1.58	1.31	5	5573.346	1300.713	11.40	1.15		7
5201.314	125.696	6.65	1.31	1.01	5	5574.292	1300.934	11.58	1.24		7
5208.335	125.866	6.90	1.53	1.24	5	5595.281	1305.832	11.56	1.17		7
5246.235	126.782	6.78	1.45	1.13	5	5609.242	1309.090	11.66	1.29		7
5270.196	127.361	7.63	1.68	1.39	5	5622.215	1312.118	11.63	1.22		7
7315.837	176.796	6.78	1.46	1.23	1	5624.193	1312.580	11.22	1.05		7
7600.988	183.688	6.58	1.25	0.98	1						
7626.944	184.315	7.57	1.73	1.65	1	5627.205	1313.282	11.43	1.16		7
<b>VX PUP</b>											
7634.984	184.509	6.81	1.27	0.93	1	J.D.	CYCLES	V	B-V	U-B	RF
7635.951	184.532	6.64	1.20	0.85	1	5161.322	1713.746	8.35	0.72	0.45	5
7648.962	184.847	6.84	1.50	1.26	1	5166.345	1715.414	8.31	0.75	0.51	5
7653.933	184.967	7.04	1.59	1.45	1	5201.272	1727.011	8.41	0.71	0.43	5
7656.904	185.039	7.14	1.68	1.49	1	5208.267	1729.333	8.05	0.59	0.34	5
7661.818	185.158	7.32	1.72	1.58	1	5209.293	1729.674	8.51	0.81	0.52	5
7663.826	185.206	7.41	1.73	1.62	1						
<b>ST PUP</b>											
J.D.	CYCLES	V	B-V	U-B	RF	5242.249	1740.616	8.31	0.70	0.66	5
5164.321	271.806	10.22	0.95	0.72	5	6857.011	2276.776	8.67	1.21		2
5165.293	271.858	10.40	0.96	0.67	5	6859.026	2277.445	8.40	0.69		2
5166.308	271.911	10.52	0.97	0.66	5	7015.622	2329.440	8.23	0.59	0.30	1
5167.313	271.964	10.62	0.94	0.64	5	7020.642	2331.107	8.11	0.53	0.30	1
5169.313	272.069	10.68	0.80	0.46	5	7022.631	2331.768	8.39	0.63	0.36	1
5177.300	272.490	9.76	0.65	0.36	5	7023.633	2332.100	8.44	0.67	0.37	1
5195.293	273.437	9.87	0.69	0.39	5	7043.600	2338.730	8.48	0.71	0.36	1
5209.266	274.172	9.34	0.33	0.09	5	7049.621	2340.729	8.51	0.73	0.50	1
5238.217	275.696	10.22	0.88	0.55	5	7050.626	2341.063	8.24	0.52	0.32	1
5239.218	275.748	10.35	0.88	0.55	5						
<b>VZ PUP</b>											
J.D.	CYCLES	V	B-V	U-B	RF	5242.220	1740.616	8.31	0.70	0.66	5
5257.208	276.695	10.45	0.90	0.66	5	5532.394	291.179	9.92	0.77		7
5532.394	291.179	9.92	0.77		7	5535.316	291.332	10.36	0.90		7
5535.316	291.332	10.36	0.90		7	5549.349	292.071	9.83	0.66		7
5549.349	292.071	9.83	0.66		7	4517.213	195.010	9.03	0.79		7
5574.244	293.381	10.60	0.90		7	4519.232	195.097	9.11	0.87		7
5580.269	293.698	9.38	0.33		7	4520.183	195.138	9.32	0.98		-7
5595.237	294.486	10.72	0.76		7	4865.274	210.036	9.02	0.82		7
5616.194	295.589	9.76	0.36		-7	4886.210	210.940	10.09	1.30		7
5617.196	295.642	9.35	0.33		-7	5164.352	222.947	9.85	1.30	0.97	5
						5165.340	222.990	9.22	0.97	0.62	5
						5166.361	223.034	8.90	0.85	0.55	5
<b>VW PUP</b>											
J.D.	CYCLES	V	B-V	U-B	RF	5188.386	223.985	9.39	0.98		7
4833.286	1127.997	11.69	1.21		7	5195.323	224.284	9.44	1.21	0.87	5
4885.227	1140.119	11.80	1.20		-7	5208.279	224.844	10.23	1.43	1.16	-5
5164.339	1205.258	11.41	1.18	0.85	-5	5209.306	224.888	10.25	1.37	1.04	-5
						5223.211	225.488	9.79	1.43	1.14	6
						5238.261	226.138	9.20	0.98	0.64	5

TABLE 1 (continued)

VZ	PUP	CONT.						WX	PUP	CONT.					
J.D.	CYCLES	V	B-V	U-B	RF		J.D.	CYCLES	V	B-V	U-B	RF			
5239.243	226.180	9.29	1.08	0.75	5		5568.385	623.010	9.05	0.92		7			
							5632.196	630.149	12.31	1.35		-7			
5242.258	226.311	9.47	1.25	0.90	5										
5256.225	226.914	10.24	1.47	1.11	-5										
5256.231	226.914	10.17	1.39		7										
	WW PUP														
J.D.	CYCLES	V	B-V	U-B	RF		4513.214	859.529	10.87	0.90		7			
							4523.199	861.430	11.02	1.00		7			
4835.246	876.471	10.27	0.73		7		4529.203	862.574	10.61	0.77		7			
4869.259	882.636	10.23	0.78		7		4530.213	862.766	10.28	0.66		7			
4885.237	885.532	10.16	0.66		7		4531.192	862.953	10.56	0.84		7			
5165.346	936.307	10.95	1.12	0.87	-5		4834.268	920.673	10.20	0.58		7			
5166.367	936.492	10.04	0.74	0.46	5		4835.345	920.878	10.42	0.77		7			
							4839.228	921.617	10.44	0.68		7			
5194.376	941.569	10.15	0.71		7		4840.236	921.809	10.37	0.69		7			
5195.332	941.742	10.40	0.89	0.61	5		4861.310	925.823	10.37	0.72		7			
5209.311	944.276	10.95	1.08	0.67	-5		4865.282	926.579	10.61	0.77		7			
5238.268	949.525	10.07	0.68	0.40	5		4866.248	926.763	10.25	0.63		7			
5239.252	949.704	10.30	0.86	0.58	5		4867.251	926.954	10.54	0.84		7			
							5165.372	983.731	10.20	0.66	0.40	5			
5242.267	950.250	10.99	1.10	0.88	-5		5238.290	997.618	10.38	0.73	0.38	5			
5547.450	1005.570	10.17	0.70		7		5239.271	997.804	10.30	0.72	0.47	5			
5555.411	1007.013	10.73	1.03		7		5242.290	998.379	10.74	1.24	0.94	5			
5567.338	1009.175	10.97	1.13		7										
5568.352	1009.359	10.95	1.04		7										
5573.375	1010.269	11.05	1.10		7		WZ PUP								
5574.304	1010.437	10.52	0.84		7		J.D.	CYCLES	V	B-V	U-B	RF			
5624.203	1019.482	10.17	0.73		7		4513.225	897.724	10.17	0.72		7			
5629.214	1020.391	10.79	0.94		7		4519.255	898.923	10.37	0.85		7			
7015.633	1271.703	10.36	0.86	0.51	1		4523.214	899.711	10.19	0.71		7			
							4532.198	901.498	10.03	0.62		7			
7020.651	1272.612	10.20	0.75	0.47	1		4835.360	961.799	10.21	0.83		7			
7022.642	1272.973	10.73	0.99	0.65	1			4865.290	967.753	10.15	0.78		7		
7023.622	1273.151	10.94	1.10	0.75	1			4867.272	968.147	10.58	0.98		7		
7315.821	1326.117	10.78	1.10	0.79	1			4869.280	968.546	9.88	0.59		7		
7600.966	1377.804	10.52	0.93	0.61	1			4893.228	973.310	10.76	0.98		7		
								5239.278	1042.143	10.55	0.99	0.86	-5		
	WX PUP							5242.296	1042.743	10.08	0.82	0.55	5		
J.D.	CYCLES	V	B-V	U-B	RF			5246.230	1043.525	9.86	0.64	0.37	5		
								5256.241	1045.517	9.90	0.62	0.35	5		
4513.205	504.953	9.21	0.99		7			5256.248	1045.518	9.97	0.61		7		
4522.181	505.957	9.13	0.98		7										
4523.184	506.069	8.89	0.82		7		AD PUP								
4533.202	507.190	8.88	0.88		7		J.D.	CYCLES	V	B-V	U-B	RF			
4835.335	540.994	9.06	1.03		-7		4519.244	332.444	9.31	0.75		7			
								4520.195	332.514	9.71	0.77		-7		
5161.345	577.469	9.03	1.08	0.76	5			4520.253	332.518	9.50	0.86		-7		
5164.357	577.806	9.30	1.22	0.95	5			4531.184	333.322	10.04	1.08		7		
5177.318	579.256	8.88	0.94	0.67	5			4532.178	333.396	9.46	0.77		7		
5195.336	581.272	8.90	0.96	0.68	5			4833.304	355.547	9.56	0.92		7		
5201.285	581.937	9.22	1.08	0.78	5			4847.227	356.571	9.59	0.98		7		
								5165.357	379.973	10.21	1.40	1.14	-5		
5208.288	582.721	9.33	1.21	0.93	5			5195.339	382.179	10.21	1.25	0.98	-5		
5209.320	582.836	9.42	1.17	0.93	5			5238.274	385.337	10.05	1.15	0.77	5		
5242.271	586.523	9.07	1.09	0.83	5			5239.257	385.410	9.31	0.77	0.42	5		
5246.211	586.964	9.13	1.01	0.71	5			5242.275	385.632	9.65	1.06	0.76	5		
5256.240	588.086	8.78	0.84		-7										
5257.215	588.195	8.81	0.90	0.60	5										

TABLE 1 (continued)

AP PUP						AT PUP						CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V
4847.256	953.375	7.12	0.66		7	5644.206	846.868	7.91	0.81		7				
4867.262	957.310	7.26	0.74		7	7601.930	1140.609	7.53	0.58	0.31	1				
4893.215	962.415	7.16	0.64		7	7626.935	1144.361	8.34	1.09	0.70	1				
5161.352	1015.153	7.66	1.01	0.74	5	7634.976	1145.567	7.71	0.64	0.36	1				
5169.325	1016.721	7.38	0.92	0.64	5	7635.944	1145.713	7.62	0.63	0.37	1				
5176.330	1018.099	7.64	1.03	0.76	5	7653.925	1148.410	8.38	0.97	0.71	1				
5177.322	1018.294	7.30	0.81	0.51	5	7654.894	1148.556	7.82	0.66	0.38	1				
5188.430	1020.479	7.19	0.72		7	7656.893	1148.856	7.90	0.79	0.48	1				
5201.290	1023.008	7.62	1.03	0.76	5	7661.811	1149.594	7.61	0.57	0.32	1				
5208.301	1024.387	7.03	0.70	0.43	5	7663.819	1149.895	7.91	0.82	0.52	1				
5209.329	1024.589	7.23	0.84	0.56	5										
5223.323	1027.342	7.19	0.69		7										
5247.212	1032.040	7.63	1.02	0.76	5										
5257.226	1034.010	7.61	1.02	0.76	5										
5532.444	1088.141	7.70	1.01		7										
AQ PUP						J.D.	CYCLES	V	B-V	U-B	RF				
5535.392	1088.720	7.38	0.89		7	5165.365	717.561	10.93	1.34	1.02	-5				
5626.216	1106.584	7.24	0.81		7	5223.224	725.599	11.06	1.37	0.96	6				
5629.224	1107.176	7.67	0.95		7	5238.285	727.691	11.28	1.60	1.07	-5				
5640.190	1109.332	7.20	0.77		7	5239.261	727.827	11.24	1.40	1.14	-5				
						5242.283	728.247	10.63	1.14	0.74	5				
AQ PUP						J.D.	CYCLES	V	B-V	U-B	RF				
5161.364	172.878	8.27	1.32	0.97	5	5256.235	730.185	10.60	1.13	0.81	5				
5169.331	173.145	8.66	1.54	1.25	5	5270.203	732.125	10.44	1.06	0.69	5				
5208.305	174.450	8.96	1.55	1.22	5										
5209.336	174.485	9.04	1.54	1.23	5										
5223.239	174.950	8.50	1.41	1.02	6										
BN PUP						J.D.	CYCLES	V	B-V	U-B	RF				
5238.295	175.455	9.01	1.50	1.15	5	5239.291	383.157	10.27	1.41	1.09	-5				
5239.275	175.488	9.01	1.50	1.18	5	5242.307	383.378	9.21	0.87	0.57	5				
5267.205	176.423	8.99	1.55	1.20	5	5256.246	384.397	9.35	0.94	0.62	5				
5270.213	176.524	9.05	1.48	1.22	5	5257.231	384.469	9.48	1.05	0.73	5				
						5267.215	385.199	10.10	1.30	0.94	5				
						5270.218	385.419	9.39	0.98	0.68	5				
AT PUP						J.D.	CYCLES	V	B-V	U-B	RF				
5169.360	775.621	7.54	0.60	0.35	5										
5201.310	780.415	8.38	0.99	0.71	5										
5208.331	781.469	8.19	0.90	0.61	5	J.D.	CYCLES	V	B-V	U-B	RF				
5209.366	781.624	7.59	0.64	0.39	5	4510.232	281.552	11.02	0.87		7				
5246.248	787.158	8.23	1.01	0.74	5	4513.235	281.739	10.58	0.75		7				
						4530.248	282.801	10.49	0.88		7				
5256.260	788.660	7.55	0.62	0.37	5	4544.201	283.672	10.61	0.73		7				
5267.220	790.304	8.38	1.06	0.81	5	4833.344	301.722	10.47	0.80		7				
5535.422	830.546	7.82	0.69		7										
5547.474	832.354	8.45	1.04		7										
5573.401	836.244	8.37	1.03		7										
5574.316	836.382	8.45	1.03		7										
5580.324	837.283	8.41	1.05		7										
5595.318	839.533	7.90	0.71		7										
5608.295	841.480	8.17	0.85		7										
5609.278	841.627	7.52	0.56		7										
5612.236	842.071	8.13	0.94		7										
5616.231	842.671	7.61	0.62		7										
5622.234	843.571	7.61	0.60		7										
5629.231	844.621	7.55	0.56		7										
5636.191	845.665	7.61	0.61		7										
5640.197	846.267	8.40	1.06		7										
5641.192	846.416	8.33	0.98		7										

TABLE 1 (continued)

EK PUP						RV SCO						CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF				
4517.227	1720.278	10.65	0.82		7	7460.714	1230.871	7.01	1.01	0.64	1				
4533.190	1726.357	10.61	0.82		7	7462.733	1231.204	7.37	1.17	0.79	1				
4812.389	1832.684	10.58	0.81		7	7469.774	1232.365	7.50	1.17	0.89	1				
4835.257	1841.392	10.51	0.78		7	7470.725	1232.522	7.00	0.92	0.61	1				
4869.269	1854.345	10.54	0.81		7	7472.738	1232.855	6.95	1.00	0.65	1				
4885.246	1860.430	10.56	0.71		-7	7472.815	1232.867	7.02	0.88	0.61	1				
4895.226	1864.230	10.72	0.88		7	7523.643	1241.253	7.54	1.27	0.97	1				
5223.291	1989.166	10.82	0.91		7										
5547.462	2112.619	10.49	0.81		7										
5573.388	2122.492	10.46	0.76		7										
5612.224	2137.282	10.68	0.84		7	J.D.	CYCLES	V	B-V	U-B	RF				
	RV SCO						5205.651	256.320	7.65	1.33	0.93	5			
							5216.620	256.860	8.34	1.63	1.24	6			
							5243.669	258.192	7.63	1.26	0.88	5			
	J.D.	CYCLES	V	B-V	U-B	RF	5244.623	258.239	7.50	1.22	0.86	5			
							5245.626	258.288	7.59	1.27	0.90	5			
4564.437	753.042	7.11	1.08		7										
4579.342	755.501	7.00	0.90		7										
4580.383	755.673	6.73	0.84		7										
4901.548	808.659	6.70	0.81		7										
4925.461	812.604	6.63	0.76		7										
4932.328	813.737	6.83	0.90		7										
5167.651	852.561	6.65	0.80	0.50	5										
5176.616	854.040	7.14	1.09	0.79	5										
5177.593	854.201	7.36	1.17	0.87	5										
5184.644	855.364	7.42	1.17	0.86	5										
5188.668	856.028	7.13	1.07	0.78	5										
5195.674	857.184	7.36	1.16	0.88	5										
5201.619	858.165	7.32	1.15	0.86	5										
5205.602	858.822	6.93	0.97	0.66	5										
5208.634	859.322	7.45	1.18	0.89	5										
5238.564	864.260	7.41	1.18	0.88	5										
5241.571	864.756	6.84	0.92	0.61	5	J.D.	CYCLES	V	B-V	U-B	RF				
5242.585	864.923	7.05	1.04	0.75	5										
5243.623	865.095	7.25	1.12	0.82	5										
5244.583	865.253	7.40	1.18	0.88	5										
5245.581	865.418	7.35	1.08	0.77	5										
5246.580	865.582	6.66	0.78	0.48	5										
5306.297	875.434	7.27	1.07	0.76	6										
5331.248	879.551	6.73	0.79		7										
5343.222	881.526	6.87	0.87		7										
7083.828	1168.692	6.72	0.84	0.47	1										
7087.784	1169.345	7.54	1.20	0.89	1	J.D.	CYCLES	V	B-V	U-B	RF				
7094.780	1170.499	7.00	0.94	0.51	1										
7099.847	1171.335	7.46	1.18	0.87	1										
7100.757	1171.485	7.02	0.95	0.51	1										
7102.788	1171.820	6.92	0.98	0.61	1										
7132.744	1176.762	7.00	0.96	0.67	1										
7135.677	1177.246	7.51	1.23	0.91	1										
7142.657	1178.398	7.37	1.13	0.76	1										
7143.643	1178.560	6.72	0.77	0.51	1										
7145.651	1178.892	7.08	1.06	0.70	1										
7147.637	1179.219	7.36	1.16	0.85	1										
7148.630	1179.383	7.42	1.12	0.76	1										
7149.689	1179.558	6.78	0.82	0.49	1										
7453.700	1229.714	6.79	0.93	0.47	1										
7455.733	1230.049	7.12	1.06	0.76	1										
7458.706	1230.540	6.81	0.82	0.53	1										

TABLE 1 (continued)

KQ	SCO	CONT.					500	SCO	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF		J.D.	CYCLES	V	B-V	U-B	RF
5250.586	183.014	9.81	1.76	1.38	-5		4563.527	489.825	8.65	1.32		7
5251.585	183.048	9.51	1.76		7		4564.476	489.927	8.75	1.40		7
5256.521	183.220	9.53	1.78	1.39	-5		4567.512	490.253	9.10	1.48		7
5277.394	183.948	10.14	1.93	1.72	6		4570.423	490.565	8.56	1.21		7
5281.438	184.089	9.37	1.74		7		4572.448	490.782	8.61	1.29		7
5285.405	184.227	9.56	1.89		7		4906.597	526.648	8.47	1.16		7
5308.372	185.028	9.65	1.83		7		4907.418	526.736	8.49	1.22		7
5309.267	185.059	9.46	1.66	1.33	6		4925.472	528.674	8.40	1.16		7
5309.284	185.060	9.46	1.76		7		4943.305	530.588	8.58	1.21		7
5310.262	185.094	9.38	1.73		7		5201.646	558.317	9.00	1.36	1.01	5
5311.281	185.129	9.38	1.65	1.36	6		5205.637	558.746	8.48	1.20	0.86	5
	470 SCO						5216.608	559.923	8.77	1.40	1.09	6
							5243.660	562.827	8.66	1.30	0.97	5
							5244.620	562.930	8.75	1.35	1.03	5
J.D.	CYCLES	V	B-V	U-B	RF		5245.600	563.035	8.93	1.45	1.13	5
4563.517	280.633	10.83	2.31		7		5246.659	563.149	9.09	1.49	1.18	5
4564.448	280.691	10.86	2.30		7		5250.598	563.572	8.57	1.20	0.87	5
4575.440	281.366	10.83	2.14		7		5256.536	564.209	9.14	1.47	1.16	5
4576.403	281.426	10.50	2.04		7		5304.275	569.333	8.94	1.36	1.02	6
4577.462	281.491	10.59	2.07		7		5305.333	569.446	8.64	1.22	0.89	6
4578.400	281.548	10.67	2.14		7		5306.305	569.551	8.58	1.22	0.93	6
4950.345	304.421	10.53	2.02		7		5309.355	569.878	8.70	1.35	1.06	6
5308.386	326.439	10.49	2.02		7		5310.329	569.983	8.85	1.40	1.11	6
5372.246	330.366	10.83	2.21		7		7083.865	760.345	8.85	1.32	0.93	1
	482 SCO						7100.864	762.169	9.11	1.52	1.23	1
							7142.664	766.656	8.44	1.20	0.80	1
							7143.739	766.771	8.56	1.27	0.95	1
							7145.667	766.978	8.90	1.46	1.17	1
							7147.647	767.191	9.11	1.53	1.22	1
4579.396	1011.395	7.84	0.98		-7		7148.645	767.298	9.04	1.44	1.05	1
4585.340	1012.708	8.14	1.13		7		7160.651	768.587	8.62	1.26	0.81	1
4586.333	1012.928	8.27	1.14		7		7453.790	800.051	9.01	1.47	1.16	1
4587.341	1013.150	7.68	0.83		7		7455.772	800.263	9.07	1.52	1.17	1
4886.580	1079.239	7.66	0.82		7		7458.744	800.582	8.62	1.24	0.88	1
4905.622	1083.445	7.88	0.98		7		7472.765	802.087	9.00	1.50	1.24	1
4931.365	1089.131	7.75	0.86		7		7523.663	807.550	8.67	1.26	0.93	1
4950.435	1093.342	7.76	0.91		7		7533.636	808.621	8.59	1.22	0.86	1
5176.637	1143.301	7.68	0.88	0.60	5							
5201.672	1148.830	8.22	1.14	0.83	5							
5205.623	1149.703	8.16	1.12	0.84	5							
5208.648	1150.371	7.80	0.96	0.66	5							
5238.589	1156.983	8.22	1.10	0.77	5							
5243.651	1158.101	7.86	0.90	0.59	5							
5244.606	1158.312	7.71	0.89	0.58	5							
5245.622	1158.537	8.01	1.05	0.77	5		4570.410	299.935	13.23	0.71		7
5246.646	1158.763	8.20	1.13	0.83	5		4572.433	300.068	12.55	0.78		7
5256.657	1160.974	8.20	1.11	0.80	5		4573.386	300.130	12.69	0.96		7
7453.760	1646.221	7.62	0.86	0.49	1		4952.322	324.998	12.73	0.63		7
7455.760	1646.663	8.09	1.08	0.81	1		4953.324	325.064	12.79	0.67		-7
7458.733	1647.319	7.76	0.94	0.58	1		5302.350	347.969	12.88	0.65		7
7462.771	1648.211	7.64	0.83	0.49	1		5303.367	348.036	12.63	0.67		7
7470.746	1649.973	8.41	1.15	0.83	1							
7472.758	1650.417	7.85	0.97	0.63	1							
7533.622	1663.859	8.29	1.15	0.82	1							
	500 SCO											
							4561.521	671.145	6.54	0.93		7
							4564.458	671.577	6.91	1.07		7
							4579.386	673.773	6.67	0.90		7
							4585.330	674.648	6.89	1.04		7
4562.477	489.712	8.39	1.16		7		4587.314	674.940	6.41	0.78		7

TABLE 1 (continued)

636 SCO				CONT.				X				SCT				CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF		
4885.522	718.815	6.56	0.85		7	7198.647	1714.751	9.89	1.17	0.80	1								
4886.570	718.970	6.44	0.82		7	7200.648	1715.228	10.40	1.35	0.98	1								
4901.666	721.191	6.66	0.92	-7		7201.630	1715.462	9.78	1.05	0.69	1								
4906.543	721.908	6.40	0.78		7	7455.922	1776.036	10.22	1.33	1.02	1								
4907.407	722.035	6.50	0.87		7	7458.874	1776.739	9.90	1.16	0.85	1								
5176.632	761.647	6.90	1.05	0.79	5							Y	SCT						
5184.661	762.828	6.53	0.85	0.57	5							J.D.	CYCLES	V	B-V	U-B	RF		
5201.642	765.327	6.75	1.02	0.76	5														
5205.619	765.912	6.40	0.80	0.53	5							4565.574	441.481	9.37	1.52		7		
5208.639	766.356	6.76	1.03	0.76	5							4573.532	442.250	9.54	1.51		7		
5236.631	770.475	6.86	1.08	0.82	5							4574.479	442.342	9.31	1.40		7		
5238.581	770.762	6.67	0.91	0.63	5							4905.660	474.366	9.21	1.32		7		
5241.588	771.204	6.61	0.97	0.72	5							4906.617	474.459	9.37	1.49		7		
5242.672	771.364	6.76	1.03	0.77	5							4947.452	478.407	9.24	1.39		7		
5243.639	771.506	6.88	1.08	0.81	5							4988.313	482.359	9.27	1.37		7		
5244.602	771.647	6.88	1.05	0.77	5							6731.772	650.947	10.02	1.83		2		
5245.618	771.797	6.59	0.89	0.60	5							6736.838	651.437	9.34	1.47		2		
5246.633	771.946	6.41	0.81	0.54	5							6742.713	652.005	9.97	1.76		2		
5256.653	773.421	6.79	1.06	0.79	5							6743.799	652.110	9.77	1.63		2		
	X SCT											6744.751	652.202	9.58	1.54		2		
	J.D.	CYCLES	V	B-V	U-B	RF						6745.755	652.299	9.52	1.52		2		
4565.563	1087.539	9.52	1.00		7							6746.706	652.391	9.29	1.43		2		
4573.521	1089.434	9.88	1.12		7							6747.737	652.491	9.49	1.54		2		
4574.467	1089.660	9.71	1.05		7							6749.735	652.684	9.68	1.72		2		
4905.646	1168.548	9.53	0.97		7							6753.759	653.073	9.80	1.67		2		
4922.541	1172.572	9.55	0.99		7							6755.807	653.271	9.58	1.55		2		
5308.512	1264.513	9.53	0.92		7							6757.716	653.456	9.43	1.53		2		
5358.255	1276.362	10.25	1.29		7							6758.730	653.554	9.56	1.60		2		
5363.284	1277.559	9.52	0.98	-7								6793.791	656.944	10.03	1.84	1.48	2		
6735.758	1604.489	9.62	1.02		2							6808.720	658.388	9.17	1.36	0.93	2		
6735.840	1604.509	9.54	0.97		2							6811.735	658.679	9.71	1.70	1.32	2		
6736.794	1604.736	9.89	1.16		2							6813.658	658.865	9.94	1.84	1.49	2		
6736.912	1604.764	9.93	1.13		2							6818.748	659.358	9.21	1.39	0.98	2		
6744.727	1606.626	9.64	1.03		2							6833.077	660.743	9.89	1.75	1.47	2		
6745.742	1606.867	10.08	1.24		2							6834.660	660.896	9.98	1.84	1.45	2		
6747.730	1607.341	10.34	1.27		2							6836.644	661.088	9.79	1.62	1.19	2		
6748.724	1607.578	9.58	1.00		2							6845.624	661.956	10.01	1.78	1.46	2		
6749.727	1607.817	9.95	1.23		2							6853.650	662.732	9.74	1.74		2		
6753.753	1608.776	9.94	1.15		2							7601.585	735.056	9.88	1.68	1.38	1		
6759.760	1610.207	10.41	1.34		2							Z SCT							
6761.759	1610.683	9.80	1.13		2							J.D.	CYCLES	V	B-V	U-B	RF		
6765.758	1611.635	9.73	1.07		2							4570.504	354.264	9.22	1.19		7		
6802.772	1620.452	9.75	1.08	0.68	2							4906.628	380.318	9.26	1.24		7		
6806.703	1621.389	10.23	1.24	0.74	2							4931.449	382.241	9.16	1.15		7		
6815.740	1623.541	9.48	0.97	0.74	2							4943.431	383.170	9.22	1.11		7		
6834.646	1628.045	10.24	1.35	0.85	2							5302.414	410.995	9.74	1.41		7		
6834.679	1628.053	10.29	1.31	0.87	2							5303.401	411.072	9.65	1.36		7		
6836.637	1628.519	9.53	0.96	0.75	2							6731.761	521.785	10.03	1.63		2		
7053.901	1680.273	10.48	1.38	0.98	1							6735.756	522.095	9.68	1.32		2		
7130.771	1698.583	9.60	1.02	0.69	1							6736.854	522.180	9.17	1.13		2		
7143.775	1701.681	9.74	1.08	0.76	1							6742.727	522.635	9.86	1.56		2		
7145.724	1702.145	10.35	1.37	0.97	1							6743.849	522.722	10.12	1.61		2		
7148.696	1702.853	10.05	1.22	0.84	1							6744.792	522.795	10.22	1.64		2		
7149.719	1703.097	10.26	1.37	0.93	1							6745.769	522.871	10.12	1.56		2		
7159.665	1705.466	9.70	1.07	0.69	1							6746.721	522.945	9.95	1.49		2		

TABLE I (continued)

Z	SCT	CONT.				SS	SCT	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6747.749	523.025	9.80	1.33		2	3091.908	842.194	8.21	1.01		8
						3092.820	842.443	8.47	1.06		8
6749.775	523.182	9.16	1.09		2	3093.809	842.712	8.33	1.04		8
6753.791	523.493	9.58	1.47		2	3094.814	842.986	8.00	0.88		8
6757.730	523.798	10.12	1.67		2	3095.814	843.258	8.23	1.08		8
6758.752	523.877	10.08	1.59		2	3096.785	843.523	8.40	1.05		8
6790.855	526.366	9.40	1.31	0.95	2	3098.818	844.076	8.11	0.93		8
6802.819	527.293	9.22	1.17	0.99	2	3116.770	848.966	7.97	0.86		8
6811.792	527.989	9.72	1.41	0.98	2	3123.750	850.868	7.98	0.84		8
6814.226	528.177	9.18	1.08	0.71	2	3125.741	851.410	8.42	1.13		8
6833.809	529.695	9.92	1.60	1.49	2	4585.419	1249.007	8.02	0.86		7
6834.668	529.762	10.03	1.61	1.51	2	4586.432	1249.283	8.30	1.02		7
6846.613	530.688	9.92	1.63	1.54	2	4587.415	1249.550	8.45	1.07		7
6853.661	531.234	9.10	1.17	0.82	2	4988.336	1358.756	8.32	0.92		7
7601.591	589.207	9.06	1.06	0.83	1	4989.332	1359.027	8.06	0.89		7
	RU	SCT				5201.666	1416.864	7.99	0.83	0.53	5
						5238.630	1426.932	7.96	0.84	0.55	5
J.D.	CYCLES	V	B-V	U-B	RF	5256.631	1431.836	8.06	0.85	0.54	5
5309.401	269.543	9.87	1.86		7	5304.386	1444.844	8.00	0.85	0.52	6
5310.379	269.592	9.67	1.75		7	5305.401	1445.120	8.15	0.97	0.65	6
5328.346	270.505	9.88	1.89		7	5306.341	1445.376	8.37	1.07	0.76	6
5331.395	270.659	8.87	1.38		7	5309.427	1446.217	8.22	1.00	0.68	6
5626.432	285.637	9.15	1.48		7	5310.440	1446.493	8.44	1.08	0.76	6
5627.465	285.690	8.89	1.41		7	5315.420	1447.849	7.99	0.85		7
5628.567	285.746	9.04	1.50		7	5624.585	1532.061	8.10	0.90		7
5629.519	285.794	9.14	1.54		7	5627.470	1532.847	8.02	0.84		7
5630.507	285.844	9.19	1.64		7	5631.450	1533.931	8.00	0.85		7
6735.858	341.960	9.37	1.76		2	7099.940	1933.928	7.96	0.83	0.50	1
6736.844	342.010	9.47	1.85		2	7100.917	1934.195	8.21	1.02	0.64	1
6742.723	342.308	9.94	1.99		2	7102.915	1934.739	8.30	0.98	0.56	1
6743.834	342.365	9.97	1.98		2	7147.683	1946.933	8.09	0.85	0.46	1
6744.758	342.412	9.91	1.95		2	7148.730	1947.218	8.24	1.04	0.62	1
6746.710	342.511	9.95	1.93		2	7149.746	1947.495	8.42	1.07	0.70	1
6748.734	342.613	9.62	1.72		2	7159.725	1950.213	8.25	1.02	0.63	1
6749.762	342.666	8.95	1.44		2	7162.731	1951.032	7.97	0.90	0.52	1
6753.776	342.869	9.22	1.68		2	7198.673	1960.822	8.07	0.87	0.53	1
6781.834	344.294	9.97	2.00		2	7200.715	1961.378	8.38	1.08	0.77	1
6790.838	344.751	9.00	1.55	1.04	2	7201.669	1961.638	8.48	1.06	0.68	1
6792.778	344.849	9.20	1.63	1.18	2	7203.629	1962.172	8.40	0.98	0.63	1
6793.755	344.899	9.28	1.66	1.30	2	7455.953	2030.901	7.95	0.81	0.52	1
6807.779	345.611	9.64	1.78	1.22	2	7458.892	2031.702	8.43	1.03	0.63	1
6808.710	345.658	9.04	1.44		2	7469.804	2034.674	8.46	1.04	0.66	1
6810.724	345.761	9.00	1.50	1.14	2	7472.794	2035.489	8.43	1.08	0.73	1
6816.703	346.064	9.52	1.91	1.53	2	7533.700	2052.079	8.11	0.93	0.59	1
6817.676	346.113	9.65	1.96	1.61	2		TY	SCT			
6818.764	346.169	9.70	1.96	1.70	2		J.D.	CYCLES	V	B-V	RF
6833.679	346.926	9.28	1.70	1.35	2						
6834.655	346.975	9.36	1.79	1.40	2						
6846.644	347.584	9.83	1.81		2	6790.845	614.388	10.33	1.52	1.07	2
7601.580	385.910	9.25	1.69	1.36	1	6792.784	614.564	10.67	1.70	1.21	2
	SS	SCT				6793.762	614.652	10.76	1.86	1.29	2
						6802.801	615.470	10.38	1.59	1.00	2
						6806.712	615.824	11.05	1.94	1.58	2
	J.D.	CYCLES	V	B-V	U-B	RF					
3087.882	841.098	8.11	0.94		8	6807.740	615.917	11.17	1.95	1.51	2
3089.864	841.637	8.29	1.12		8	6808.702	616.004	11.18	1.91	1.68	2
3090.856	841.908	7.98	0.82		8	6810.729	616.187	10.85	1.73	1.33	2
						6816.709	616.728	10.88	1.90	1.44	2

TABLE 1 (continued)

TY	SCT	CONT.				CM	SCT				
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
6817.681	616.816	11.00	1.98	1.53	2	4578.529	1168.812	10.77	1.25		7
						4579.534	1169.069	11.05	1.43		7
6818.670	616.906	11.14	1.94	1.60	2	4950.495	1263.768	10.82	1.28		7
6833.685	618.264	10.69	1.64	1.20	2	5315.383	1356.917	10.88	1.31		7
6834.660	618.352	10.47	1.57	1.17	2	5331.420	1361.011	10.94	1.38		7
6845.636	619.345	10.54	1.57	1.20	2	5343.283	1364.039	10.95	1.38		7
6846.648	619.437	10.34	1.51	1.13	2	5612.509	1432.768	10.83	1.30		7
						5623.525	1435.580	11.35	1.47		-7
6852.618	619.977	11.18	2.03		2	5628.577	1436.870	10.84	1.28		7
6853.655	620.071	11.09	1.81		2	5639.506	1439.660	11.13	1.41		7
6856.601	620.337	10.60	1.59		2	5640.547	1439.925	10.91	1.31		7
UZ	SCT					EV	SCT				
J.D.	CYCLES.	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4567.573	309.788	10.80	1.60		7	6050.728	1957.911	10.11	1.17	0.87	13
4568.522	309.852	10.82	1.67		7	6051.697	1958.225	10.25	1.22	0.91	13
4579.520	310.598	11.40	1.83		7	6106.688	1976.019	10.25	1.19	0.89	13
4950.477	335.758	10.98	1.72		7	6107.625	1976.322	10.23	1.18	0.90	13
4980.387	337.786	10.85	1.63		7	6108.618	1976.643	10.00	1.08	0.86	13
5364.253	363.821	10.79	1.65		7	6120.616	1980.526	10.07	1.09	0.89	13
5365.241	363.888	10.83	1.72		7	6120.674	1980.544	10.09	1.10	0.90	13
5612.482	380.657	11.37	1.89		7	6121.636	1980.856	10.07	1.14	0.86	13
5627.446	381.672	11.35	1.86		7	6121.672	1980.867	10.11	1.15	0.90	13
5628.556	381.747	11.18	1.77		7	6128.622	1983.116	10.29	1.19	0.97	13
5629.500	381.811	10.86	1.68		7	6128.624	1983.117	10.27	1.23	0.92	13
5630.489	381.878	10.82	1.70		7		CR SER				
5631.409	381.941	10.98	1.79		7		J.D.	CYCLES	V	B-V	RF
7159.694	485.594	11.52	2.02	1.76	1						
7162.695	485.798	10.98	1.72	1.34	1	4565.530	861.323	10.74	1.56		7
						4575.498	863.204	11.22	1.78		7
7198.661	488.237	11.38	2.07	1.90	1	4925.490	929.233	11.15	1.74		7
7200.664	488.373	11.62	2.11	1.95	1	4989.296	941.270	11.01	1.70		7
7201.640	488.439	11.67	2.13	1.87	1	5302.383	1000.336	10.76	1.59		7
7226.632	490.134	11.22	2.01	1.61	1						
7455.933	505.686	11.39	1.89	1.61	1	5303.386	1000.526	10.61	1.55		7
						5308.455	1001.482	10.56	1.48		7
7458.883	505.886	10.81	1.81	1.43	1	5625.534	1061.301	10.98	1.64		7
7523.738	510.285	11.53	2.12	1.81	1	5626.421	1061.469	10.55	1.50		7
7601.563	515.563	11.63	2.05	1.66	1	5631.396	1062.407	10.54	1.45		7
CK	SCT					5641.463	1064.307	10.96	1.67		-7
J.D.	CYCLES	V	B-V	U-B	RF	7016.003	1323.624	10.68	1.62	1.27	1
4574.493	616.874	10.41	1.48		7	7022.966	1324.938	10.99	1.79	1.24	1
4989.307	672.812	10.36	1.47		7	7083.926	1336.439	10.50	1.45	0.99	1
5315.317	716.775	10.40	1.50		7	7087.774	1337.165	11.32	1.86	1.39	1
5331.383	718.942	10.43	1.54		7	7455.879	1406.610	10.64	1.55	1.22	1
5623.554	758.341	10.75	1.75		7	7458.827	1407.167	11.26	1.83	1.40	1
							S SGE				
5627.457	758.867	10.42	1.50		7						
5628.588	759.020	10.49	1.60		7	J.D.	CYCLES	V	B-V	U-B	RF
5629.511	759.144	10.60	1.63		7						
5630.499	759.278	10.68	1.69		7	2772.788	330.796	5.43	0.76		8
5631.419	759.402	10.85	1.72		7	2773.778	330.915	5.51	0.80		8
						2779.816	331.635	5.32	0.67		8
5636.466	760.082	10.53	1.64		7	2780.792	331.751	5.49	0.74		8
5639.496	760.491	10.87	1.73		7	2784.767	332.226	6.01	1.06		8
5640.536	760.631	10.70	1.60		7	2789.863	332.833	5.39	0.72		8
5641.474	760.758	10.44	1.52		7						

TABLE 1 (continued)

S	SGE	CONT.				S	SGE	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
2790.840	332.950	5.65	0.88		8	7521.824	897.361	6.00	0.96	0.71	1
2791.844	333.070	5.80	0.99		8	7522.841	897.482	5.66	0.78	0.54	1
3102.809	370.168	5.95	1.04		8		U SGR				
3103.816	370.288	6.05	1.07		8						
3116.844	371.843	5.37	0.73		8	J.D.	CYCLES	V	B-V	U-B	RF
3131.795	373.626	5.32	0.66		8	3094.855	458.842	6.66	1.19		8
3132.740	373.739	5.47	0.73		8	3095.840	458.988	6.86	1.30		8
3133.752	373.860	5.43	0.72		8	3096.826	459.134	6.98	1.32		8
3134.782	373.983	5.70	0.90		8	3098.840	459.433	6.49	0.98		8
3136.778	374.221	6.00	1.05		8	3119.785	462.538	6.30	0.89		8
3137.755	374.337	6.09	1.02		8	3123.781	463.131	6.99	1.32		8
3152.783	376.130	5.90	1.01		8	3125.769	463.425	6.53	0.98		8
3153.785	376.250	6.01	1.06		8	3126.764	463.573	6.36	0.94		8
3154.799	376.371	5.97	0.97		8	3145.707	466.381	6.69	1.03		8
3158.700	376.836	5.40	0.72		8	3146.719	466.531	6.28	0.88		8
3159.722	376.958	5.67	0.89		8	3147.726	466.681	6.49	1.01		8
3178.680	379.220	5.99	1.05		8	3148.736	466.830	6.59	1.11		8
3179.674	379.338	6.07	1.02		8	3151.694	467.269	6.97	1.20		8
3180.674	379.458	5.81	0.85		8	3152.696	467.418	6.54	0.99		8
3200.661	381.842	5.40	0.72		8	3153.700	467.566	6.30	0.93		8
3206.667	382.559	5.40	0.69		8	3154.698	467.714	6.50	1.06		8
5238.671	624.979	5.69	0.90	0.66	5	4585.408	679.831	6.64	1.13		7
5242.621	625.450	5.75	0.86	0.59	5	4586.424	679.982	6.85	1.22		7
5256.580	627.115	5.83	1.00	0.77	5	4587.404	680.127	7.01	1.30		7
5292.481	631.398	5.88	0.94	0.69	5	4901.680	726.721	6.64	1.03		7
5302.541	632.598	5.27	0.62		7	4906.648	727.458	6.50	0.95		7
5303.419	632.703	5.42	0.73		7	4907.474	727.580	6.42	0.94		7
5305.440	632.944	5.60	0.88	0.63	6	4914.455	728.615	6.45	1.00		7
5306.401	633.059	5.76	0.96	0.72	6	4947.439	733.505	6.33	0.89		7
5309.395	633.416	5.88	0.92	0.65	6	4953.492	734.403	6.71	1.06		7
5310.410	633.537	5.43	0.71	0.45	6	5244.675	777.574	6.40	0.93	0.62	5
5328.412	635.685	5.36	0.68		7	5246.681	777.871	6.72	1.13	0.80	5
5348.343	638.063	5.76	0.96		7	5250.615	778.454	6.54	0.98	0.66	5
5349.280	638.174	5.93	1.01		7	5256.557	779.335	6.96	1.18	0.85	5
5358.353	639.257	6.00	1.03		7	5270.424	781.391	6.76	1.09	0.75	5
5363.313	639.849	5.33	0.72		7	5273.448	781.839	6.68	1.12	0.81	6
5364.319	639.969	5.65	0.88		7	5273.582	781.859	6.70	1.16	0.84	6
5652.414	674.339	5.96	1.00		7	5274.430	781.985	6.91	1.23	0.93	6
5654.422	674.578	5.27	0.58		7	5274.584	782.008	6.91	1.23	0.93	6
5661.435	675.415	5.90	0.90		7	5275.381	782.126	7.02	1.28	1.01	6
5669.468	676.373	5.98	0.95		7	5276.445	782.284	7.10	1.25	0.96	6
5678.440	677.444	5.78	0.89		7	5276.578	782.303	7.06	1.24	0.92	6
5687.442	678.518	5.53	0.70		7	5277.369	782.421	6.70	1.04	0.70	6
5688.321	678.622	5.15	0.58		7	5277.572	782.451	6.56	1.00	0.65	6
7050.961	841.187	5.96	1.04	0.80	1	5278.390	782.572	6.41	0.95	0.62	6
7132.864	850.958	5.67	0.89	0.59	1	5278.578	782.600	6.43	0.97	0.63	6
7147.773	852.736	5.45	0.73	0.47	1	5304.247	786.406	6.74	1.08	0.72	6
7148.856	852.866	5.40	0.73	0.48	1	5304.493	786.442	6.60	1.00	0.67	6
7149.872	852.987	5.69	0.91	0.64	1	5305.267	786.557	6.37	0.94	0.62	6
7162.752	854.523	5.39	0.70	0.41	1	5305.463	786.586	6.42	0.97	0.63	6
7178.733	856.430	5.80	0.86	0.54	1	5306.255	786.703	6.58	1.06	0.74	6
7202.709	859.290	6.02	1.03	0.77	1	5306.510	786.741	6.65	1.10	0.78	6
7205.690	859.646	5.31	0.66	0.47	1	5309.246	787.147	7.06	1.28	1.03	6
7206.721	859.769	5.42	0.74	0.49	1	5309.491	787.183	7.10	1.30	1.03	6
7215.647	860.834	5.37	0.74	0.43	1	5310.256	787.297	7.08	1.24	0.93	6
7451.954	889.026	5.71	0.93	0.67	1	5310.497	787.332	6.99	1.18	0.86	6
7516.829	896.765	5.48	0.76	0.53	1						

TABLE 1 (continued)

U SGR		CONT.				U SGR		CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5311.242	787.443	6.58	1.00	0.65	6	7104.802	1053.355	6.95	1.21	0.78	19
5635.759	835.556	6.34	0.88	0.71	18	7105.825	1053.507	6.37	0.93	0.56	19
5637.958	835.882	6.60	1.11	0.81	18	7105.906	1053.519	6.37	0.92	0.59	19
5981.907	886.875	6.65	1.14	0.81	18	7106.745	1053.643	6.45	1.00	0.64	19
5995.950	888.957	6.79	1.20	0.87	18	7106.833	1053.656	6.50	1.00	0.67	19
5996.794	889.082	5.94	1.30	1.00	18	7107.752	1053.793	6.65	1.10	0.79	19
6000.771	889.672	5.48	1.04	0.73	18	7107.772	1053.796	6.64	1.13	0.80	19
6004.756	890.263	7.04	1.31	0.97	18	7108.791	1053.947	6.80	1.23	0.86	19
6005.742	890.409	6.71	1.05	0.70	18	7108.811	1053.950	6.78	1.20	0.87	19
6009.742	891.002	6.90	1.24	0.91	18	7108.843	1053.954	6.76	1.21	0.84	19
6009.809	891.012	6.87	1.25	0.94	18	7109.761	1054.090	6.95	1.27	0.96	19
6012.832	891.460	6.51	0.96	0.63	18	7111.737	1054.383	6.81	1.13	0.73	19
6014.840	891.758	6.64	1.10	0.72	18	7111.841	1054.399	6.77	1.12	0.72	19
6026.783	893.529	6.36	0.95	0.61	18	7112.715	1054.528	6.35	0.91	0.60	19
6760.822	1002.357	6.94	1.14	0.85	21	7112.830	1054.546	6.36	0.92	0.59	19
6762.790	1002.649	6.47	0.99	0.71	21	7113.725	1054.678	6.50	1.04	0.69	19
6763.701	1002.784	6.66	1.08	0.76	21	7113.796	1054.689	6.50	1.06	0.70	19
6778.719	1005.010	6.82	1.28	0.93	21	7114.710	1054.824	6.65	1.12	0.79	19
6778.811	1005.024	6.89	1.23	0.92	21	7114.793	1054.837	6.64	1.14	0.80	19
6778.836	1005.028	6.87	1.23	0.92	21	7115.735	1054.976	6.84	1.23	0.89	19
6779.689	1005.154	7.01	1.28	0.94	21	7115.802	1054.986	6.82	1.27	0.89	19
6779.778	1005.167	7.00	1.30	0.94	21	7130.762	1057.204	7.11	1.31	1.05	-1
6779.824	1005.174	7.02	1.29	0.99	21	7143.783	1059.135	7.00	1.28	1.02	1
6783.710	1005.750	6.67	1.12	0.80	21	7145.740	1059.425	6.71	1.06	0.71	1
6783.758	1005.757	6.67	1.15	0.82	21	7148.717	1059.866	6.65	1.14	0.79	1
6785.669	1006.041	6.88	1.26	0.92	21	7149.733	1060.017	6.86	1.24	0.93	1
6786.692	1006.192	7.05	1.29	1.02	21	7162.669	1061.935	6.84	1.19	0.81	1
6786.742	1006.200	7.03	1.29	1.01	21	7204.606	1068.152	7.09	1.31	1.03	1
6787.673	1006.338	6.96	1.19	0.85	21	7237.570	1073.039	6.90	1.26	0.98	1
6787.731	1006.346	6.93	1.13	0.83	21	7239.565	1073.335	6.99	1.21	0.88	1
6816.666	1010.636	6.44	1.00	0.66	21	7516.645	1114.415	6.68	1.09	0.69	1
6817.675	1010.786	6.65	1.06	0.80	21	7516.737	1114.429	6.72	1.07	0.71	1
6819.651	1011.079	6.92	1.26	0.96	21	7518.733	1114.725	6.62	1.08	0.76	1
7051.933	1045.517	6.37	0.94	0.56	1	7523.729	1115.465	6.60	1.03	0.65	1
7073.767	1048.754	6.60	1.13	0.76	19	7533.610	1116.930	6.73	1.18	0.85	1
7073.786	1048.757	6.60	1.11	0.76	19	7533.689	1116.942	6.75	1.19	0.86	1
7073.821	1048.762	6.60	1.13	0.75	19	7539.747	1117.840	6.65	1.24	0.77	1
7073.856	1048.767	6.61	1.13	0.76	19	7539.756	1117.841	6.57	1.19	0.84	1
7073.907	1048.775	6.63	1.14	0.75	19	7539.764	1117.843	6.59	1.19	0.86	1
7075.762	1049.050	6.89	1.26	0.93	19	7540.656	1117.975	6.86	1.23	0.93	1
7075.799	1049.055	6.90	1.27	0.96	19	W SGR					
7075.840	1049.061	6.91	1.28	0.94	19	J.D.	CYCLES	V	B-V	U-B	RF
7075.882	1049.068	6.91	1.29	0.95	19	4544.144	598.330	4.51	0.74		9
7075.913	1049.072	6.92	1.28	0.96	19	4558.190	600.180	4.51	0.73		9
7077.776	1049.348	6.96	1.21	0.79	19	4561.138	600.568	4.91	0.97		9
7077.807	1049.353	6.93	1.21	0.80	19	4564.547	601.017	4.39	0.57		7
7077.933	1049.372	6.87	1.15	0.78	19	4565.521	601.145	4.46	0.66		7
7079.795	1049.648	6.46	0.99	0.63	19	4567.535	601.410	4.76	0.84		7
7079.905	1049.664	6.48	1.05	0.65	19	4568.447	601.530	4.89	0.87		7
7080.795	1049.796	6.63	1.15	0.79	19	4573.433	602.187	4.51	0.68		7
7080.907	1049.813	6.64	1.15	0.77	19	4575.475	602.456	4.82	0.86		7
7091.885	1051.440	6.64	1.03	0.65	1	4577.484	602.720	5.11	0.96		7
7093.843	1051.731	6.60	1.10	0.79	1	4579.450	602.979	4.33	0.56		7
7094.826	1051.876	6.65	1.16	0.80	1	4585.361	603.757	5.07	0.95		7
7099.895	1052.628	6.43	0.99	0.64	1	4586.389	603.893	4.72	0.71		7
7102.894	1053.072	6.91	1.27	0.95	1						
7104.755	1053.348	6.96	1.21	0.81	19						

TABLE 1 (continued)

W	SGR	CONT.				X	SGR	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4587.370	604.022	4.32	0.50		7	4602.038	656.247	4.71	0.90		9
4602.048	605.954	4.43	0.66		9	4603.051	656.392	4.86	0.92		9
						4848.115	691.338	4.81	0.93		9
4603.055	606.087	4.35	0.65		9	4868.254	694.209	4.71	0.88		9
4848.118	638.355	4.54	0.80		9						
4868.258	641.006	4.29	0.59		9	4869.102	694.330	4.79	0.93		9
4869.111	641.119	4.39	0.68		9	4873.109	694.902	4.36	0.73		9
4873.102	641.644	5.02	1.02		9	4903.083	699.176	4.58	0.87		9
						4918.045	701.310	4.82	0.91		9
4903.102	645.594	4.91	0.98		9	4921.144	701.751	4.24	0.61		9
4918.040	647.561	4.90	0.96		9						
4921.150	647.971	4.39	0.60		9	4925.065	702.311	4.80	0.95		9
4925.060	648.486	4.82	0.94		9	4951.038	706.014	4.47	0.76		9
4951.043	651.907	4.66	0.72		9	4959.951	707.285	4.78	0.91		9
						5002.987	713.422	4.77	0.94		9
4959.944	653.079	4.34	0.63		9	5012.997	714.850	4.28	0.68		9
5002.980	658.745	4.96	1.00		9						
5012.992	660.064	4.27	0.62		9	5013.967	714.988	4.42	0.76		9
5013.974	660.193	4.52	0.71		9	5014.948	715.128	4.55	0.87		9
5014.956	660.322	4.49	0.77		9	5176.642	738.185	4.68	0.86	0.58	5
						5184.665	739.329	4.81	0.91	0.65	5
5201.685	684.909	4.69	0.72	0.46	5	5195.679	740.900	4.41	0.70	0.44	5
5208.677	685.830	4.97	0.87	0.61	5						
5236.644	689.512	4.86	0.92	0.69	5	5201.680	741.756	4.26	0.62	0.35	5
5238.613	689.771	5.08	0.95	0.71	5	5205.633	742.319	4.82	0.91	0.64	5
5242.677	690.306	4.51	0.74	0.49	5	5208.651	742.750	4.27	0.62	0.35	5
						5236.638	746.741	4.26	0.61	0.35	5
5243.673	690.438	4.82	0.88	0.64	5	5238.610	747.022	4.52	0.78	0.51	5
5244.640	690.565	4.93	0.94	0.71	5						
5246.664	690.831	4.97	0.86	0.60	5	5243.655	747.741	4.25	0.60	0.34	5
5256.671	692.149	4.48	0.68	0.44	5	5244.615	747.878	4.34	0.68	0.41	5
5304.328	698.424	4.78	0.86	0.58	6	5245.596	748.018	4.51	0.77	0.50	5
						5246.667	748.171	4.66	0.84	0.56	5
5305.353	698.559	4.89	0.94	0.71	6	5251.608	748.875	4.29	0.65		7
5306.314	698.686	5.07	1.00	0.77	6						
5308.055	698.915	4.63	0.73		9	5256.662	749.596	4.64	0.76	0.48	5
5309.366	699.087	4.36	0.61	0.36	6	5285.421	753.697	4.28	0.60		7
5310.342	699.216	4.54	0.73	0.46	6	5304.271	756.385	4.84	0.93	0.66	6
						5305.329	756.536	4.79	0.85	0.55	6
7053.931	928.795	5.10	0.92	0.61	1	5308.039	756.922	4.34	0.74		9
7056.941	929.192	4.63	0.72	0.40	1						
7083.874	932.738	5.04	0.91	0.65	1	5573.639	794.797	4.26	0.62		7
7091.858	933.789	5.08	0.90	0.64	1	5628.440	802.611	4.59	0.71		7
7093.828	934.049	4.33	0.55	0.37	1	5643.353	804.738	4.24	0.59		7
						5644.240	804.864	4.30	0.67		7
7094.810	934.178	4.49	0.70	0.41	1	7053.938	1005.886	4.40	0.70	0.36	1
7099.869	934.844	4.94	0.83	0.51	1						
7100.872	934.976	4.38	0.55	0.31	1	7056.948	1006.315	4.92	0.91	0.55	1
7102.880	935.240	4.52	0.71	0.44	1	7083.856	1010.152	4.53	0.83	0.44	1
7453.943	981.465	4.68	0.87	0.54	1	7091.850	1011.292	4.81	0.90	0.57	1
						7093.818	1011.573	4.71	0.79	0.45	1
7455.853	981.717	5.07	0.97	0.73	1	7094.804	1011.714	4.26	0.60	0.33	1
7458.819	982.107	4.41	0.63	0.44	1						
7471.835	983.821	5.09	0.89	0.63	1	7099.862	1012.435	4.92	0.92	0.62	1
7523.684	990.648	5.11	1.00	0.77	1	7100.854	1012.576	4.67	0.77	0.39	1
7533.676	991.964	4.48	0.61	0.36	1	7102.874	1012.864	4.30	0.65	0.39	1
						7132.774	1017.128	4.65	0.85	0.51	1
	X SGR					7458.811	1063.621	4.56	0.73	0.45	1
J.D.	CYCLES	V	B-V	U-B	RF	7523.677	1072.871	4.40	0.70	0.47	1
4544.149	647.992	4.47	0.75		9	7533.669	1074.296	4.82	0.90	0.58	1
Y SGR						J.D.	CYCLES	V	B-V	U-B	RF
4558.176	649.992	4.47	0.74		9	3083.872	534.156	5.42	0.67		8
4561.124	650.413	4.85	0.93		9	3092.847	535.711	6.03	1.06		8
4564.469	650.890	4.34	0.63		7						
4586.364	654.012	4.49	0.74		7						
4587.352	654.153	4.65	0.79		7						

TABLE 1 (continued)

Y	SGR	CONT.				VY	SGR	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
3093.835	535.882	6.05	1.08		8	7523.701	554.915	11.04	1.79	1.42	1
3094.833	536.055	5.54	0.75		8						
3095.830	536.228	5.47	0.74		8						
						WZ	SGR				
3096.812	536.398	5.66	0.89		8						
3116.795	539.859	6.07	1.08		8	J.D.	CYCLES	V	B-V	U-B	RF
3122.765	540.893	6.05	1.06		8	3092.854	141.551	8.37	1.71		8
3123.766	541.067	5.48	0.75		8	3093.840	141.596	8.36	1.73		8
3125.760	541.412	5.67	0.91		8	3094.840	141.642	8.42	1.74		8
						3095.833	141.688	8.44	1.69		8
3126.750	541.583	5.86	0.99		8	3096.819	141.733	8.41	1.64		8
3146.708	545.040	5.50	0.84		8						
3147.717	545.215	5.48	0.71		8	3098.837	141.825	8.35	1.52		8
3148.728	545.390	5.65	0.86		8	3116.799	142.647	8.41	1.73		8
3151.690	545.903	6.02	1.04		8	3123.771	142.966	7.64	1.21		8
						3126.760	143.103	7.53	1.17		8
3153.730	546.257	5.47	0.75		8	3145.704	143.970	7.63	1.07		8
3154.724	546.429	5.68	0.91		8						
4579.494	793.213	5.40	0.70		7	3146.753	144.018	7.40	1.04		8
4585.398	794.235	5.46	0.73		7	3147.764	144.064	7.48	1.10		8
4586.415	794.411	5.68	0.87		7	3148.774	144.111	7.55	1.17		8
4587.389	794.580	5.86	0.97		7	3151.733	144.246	7.75	1.44		8
4947.431	856.943	5.94	0.93		7	3152.726	144.291	7.84	1.47		8
5208.673	902.193	5.43	0.72	0.46	5						
5242.689	908.084	5.46	0.71	0.44	5	3153.733	144.338	7.91	1.52		8
5244.664	908.427	5.72	0.91	0.65	5	3154.730	144.383	8.01	1.58		8
						4563.567	208.862	8.84	1.54		-7
5256.564	910.488	5.78	0.95	0.69	5	4565.549	208.952	7.87	1.25		7
5304.355	918.766	6.07	1.04	0.79	6	4568.477	209.086	7.69	1.05		-7
5305.377	918.943	6.01	0.96	0.65	6						
5306.364	919.114	5.40	0.69	0.41	6	4572.514	209.271	7.91	1.47		7
5309.479	919.653	5.98	1.02	0.74	6	4573.488	209.316	7.95	1.54		7
						4575.539	209.410	8.15	1.64		7
5310.378	919.809	6.09	1.05	0.77	6	4579.480	209.590	8.45	1.72		7
5358.245	928.100	5.38	0.67		7	4585.385	209.860	8.31	1.54		7
5363.275	928.971	5.85	0.89		-7						
5364.242	929.139	5.35	0.65		7	4586.405	209.907	8.28	1.50		7
7048.978	1220.951	5.97	0.97	0.62	1	4901.653	224.335	8.01	1.51		-7
						4941.218	226.146	7.66	1.30		7
7053.955	1221.813	6.15	1.07	0.76	1	4961.353	227.067	7.53	1.12		7
7082.928	1226.832	6.07	1.05	0.78	1						
7091.876	1228.382	5.64	0.88	0.56	1	5201.659	238.065	7.51	1.11	0.79	5
7093.836	1228.721	6.03	1.03	0.80	1	5244.659	240.033	7.47	1.07	0.75	5
7094.823	1228.892	6.10	1.03	0.72	1	5246.689	240.126	7.64	1.22	0.92	5
						5256.635	240.582	8.47	1.70	1.41	5
7099.888	1229.769	6.06	1.05	0.76	1	5304.351	242.765	8.53	1.63	1.48	6
7100.896	1229.944	5.97	0.96	0.62	1						
7102.887	1230.289	5.54	0.79	0.50	1	5305.369	242.812	8.44	1.56	1.34	6
7130.749	1235.115	5.42	0.68	0.43	1	5306.357	242.857	8.35	1.49	1.23	6
7132.810	1235.472	5.80	0.94	0.66	1	5309.376	242.995	7.55	1.12		7
7455.904	1291.435	5.72	0.90	0.64	1	5309.468	243.000	7.55	1.13	0.81	6
7523.718	1303.181	5.46	0.73	0.50	1	5310.366	243.041	7.53	1.09		-7
						VY	SGR				
J.D.	CYCLES	V	B-V	U-B	RF	5310.372	243.041	7.46	1.09	0.81	6
						7100.889	324.988	7.56	1.12	0.79	1
						7130.740	326.354	8.07	1.59	1.50	1
4567.557	336.883	10.86	1.71		7	7143.768	326.950	7.90	1.25	0.95	1
4568.455	336.949	11.00	1.81		7	7145.717	327.040	7.48	1.12	0.81	1
5623.510	414.765	11.68	2.07		7						
5624.559	414.843	11.29	1.91		-7	7148.660	327.174	7.71	1.33	1.06	1
5636.454	415.720	11.69	2.04		7	7149.704	327.222	7.81	1.41	1.21	1
						7226.570	330.740	8.57	1.71	1.70	1
						7455.897	341.236	7.82	1.42	1.24	1
5637.418	415.791	11.63	1.98		7	7458.856	341.371	8.10	1.60	1.48	1
7143.749	526.891	10.87	1.78	1.27	1						
7226.580	533.000	11.13	1.92	1.33	1	7523.712	344.339	8.06	1.57	1.40	1

TABLE 1 (continued)

XX SGR						YZ SGR						CONT.					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF						
3092.872	481.432	8.64	1.07		8	7053.958	738.368	7.32	1.05	0.76	1						
3093.854	481.585	8.77	1.19		8	7091.910	742.340	7.28	1.05	0.75	1						
3094.854	481.740	8.99	1.26		8	7093.870	742.545	7.53	1.20	0.98	1						
3095.847	481.895	9.11	1.38		8	7094.895	742.653	7.68	1.24	1.02	1						
3096.830	482.048	9.19	1.32		8	7099.917	743.178	7.09	0.89	0.58	1						
3098.847	482.362	8.48	1.01		8	7100.903	743.282	7.19	1.00	0.65	1						
3123.785	486.244	8.48	0.97		8	7102.908	743.491	7.44	1.15	0.88	1						
3125.776	486.554	8.75	1.19		8	7458.938	780.759	7.76	1.22	0.94	1						
3145.715	489.657	8.78	1.18		8	7469.832	781.899	7.46	1.03	0.70	1						
3146.722	489.814	9.02	1.32		8	7533.722	788.587	7.61	1.23	0.96	1						
3148.740	490.128	9.01	1.20		8							AP SGR					
3152.694	490.744	8.92	1.26		8							J.D. CYCLES V B-V U-B RF					
3153.701	490.900	9.10	1.38		8							4565.541	902.671	7.07	0.93	7	
3154.704	491.057	9.17	1.29		8							4573.481	904.241	6.60	0.59	7	
3157.701	491.523	8.77	1.19		8							4585.375	906.592	6.96	0.88	7	
7143.761	1111.987	9.28	1.35	1.01	1							4586.397	906.795	7.15	0.97	7	
7148.669	1112.751	9.03	1.29	0.90	1							4587.380	906.989	7.36	1.02	7	
7149.711	1112.913	9.22	1.35	1.02	1							4907.458	970.273	6.57	0.60	7	
7160.688	1114.622	8.85	1.20	0.84	1							4943.318	977.363	6.66	0.65	7	
7226.592	1124.880	9.20	1.38	0.98	1							4947.420	978.174	6.88	0.73	7	
7233.567	1125.966	9.28	1.33	1.07	1							4953.484	979.373	6.67	0.68	7	
7455.913	1160.576	8.83	1.17	0.83	1							5208.664	1029.825	7.22	0.99	0.73	5
7458.866	1161.036	9.30	1.34	1.02	1							5242.681	1036.551	6.92	0.86	0.59	5
7523.723	1171.132	9.08	1.24	0.83	1							5244.655	1036.941	7.33	1.01	0.75	5
	YZ SGR											5246.685	1037.343	6.62	0.67	0.40	5
	J.D.	CYCLES	V	B-V	U-B	RF						5256.674	1039.318	6.59	0.63	0.38	5
3092.878	323.745	7.74	1.23		8							5304.336	1048.741	7.13	0.96	0.68	6
3093.861	323.848	7.45	1.13		8							5305.357	1048.943	7.31	1.01	0.73	6
3094.865	323.953	7.18	1.00		8							5306.378	1049.145	7.08	0.84	0.52	6
3096.845	324.160	6.96	0.90		8							5309.504	1049.763	7.18	0.98	0.71	6
3098.858	324.371	7.22	1.08		8							5310.391	1049.938	7.32	1.01	0.74	6
												7082.906	1400.389	6.66	0.71	0.45	1
3123.790	326.980	7.15	0.98		8							7083.935	1400.592	6.92	0.84	0.54	1
3125.781	327.189	6.96	0.90		8							7094.817	1402.744	7.12	0.94	0.67	1
3145.726	329.276	7.15	0.96		8							7099.876	1403.744	7.13	0.96	0.70	1
3146.733	329.382	7.24	1.09		8							7100.880	1403.943	7.28	1.03	0.70	1
3147.746	329.488	7.38	1.15		8							7143.754	1412.420	6.70	0.71	0.48	1
3148.750	329.593	7.56	1.22		8							7145.704	1412.805	7.20	0.99	0.70	1
3152.705	330.007	7.07	0.92		8							7147.671	1413.194	6.95	0.80	0.37	1
3154.712	330.217	6.99	0.91		8							7148.653	1413.388	6.66	0.68	0.41	1
4585.445	479.978	7.20	0.93		7							7149.699	1413.595	6.98	0.88	0.57	1
4586.447	480.083	7.18	0.91		7							7160.671	1415.764	7.15	0.95	0.62	1
4587.432	480.186	7.05	0.87		7							7226.585	1428.796	7.15	0.98	0.65	1
4914.474	514.419	7.37	1.13		7							7233.560	1430.175	7.01	0.77	0.48	1
4922.551	515.264	7.14	0.96		7							7234.567	1430.375	6.60	0.68	0.42	1
4931.467	516.198	7.03	0.88		7							7455.889	1474.133	7.19	0.89	0.56	1
4961.404	519.331	7.25	1.01		7							7458.846	1474.718	7.14	0.97	0.68	1
4980.398	521.319	7.24	1.01		7												
4988.353	522.152	7.11	0.90		7							7471.842	1477.287	6.62	0.60	0.49	1
5256.618	550.232	7.08	0.92	0.63	5							7523.706	1487.541	6.96	0.87	0.54	1
5304.372	555.231	7.06	0.92	0.62	6												
5305.391	555.338	7.26	1.04	0.76	6							AY SGR					
5306.354	555.439	7.39	1.12	0.85	6							J.D.	CYCLES	V	B-V	U-B	RF
5309.463	555.764	7.71	1.20	0.93	6							4573.511	696.164	10.12	1.33		7
5310.358	555.858	7.49	1.07	0.74	6							4579.503	697.076	10.28	1.39		7
5331.432	558.064	7.17	0.91		7							4922.528	749.290	10.31	1.45		7
5370.274	562.129	7.14	0.92		7												

TABLE 1 (continued)

AY	SGR	CONT.					BB	SGR	CONT.				
		J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4929.486	750.349	10.40	1.51			7		6807.787	1025.734	7.23	1.16	0.85	2
4961.391	755.206	10.19	1.33			7		6833.693	1029.637	7.18	1.09	0.87	2
5302.401	807.113	10.13	1.33			7		6836.651	1030.083	6.65	0.84	0.60	2
5308.499	808.041	10.45	1.45			7		6856.616	1033.091	6.71	0.86		2
5309.387	808.176	10.16	1.36			7		7091.892	1068.540	7.09	1.12	0.83	1
6790.790	1033.670	10.75	1.70	1.26	2			7093.850	1068.835	7.22	1.12	0.82	1
6793.714	1034.115	10.14	1.35	0.79	2			7094.836	1068.984	6.82	0.92	0.56	1
6802.712	1035.485	10.53	1.59	1.17	2			7099.901	1069.747	7.27	1.16	0.90	1
6806.679	1036.089	10.28	1.33	0.92	2			7102.901	1070.199	6.75	0.93	0.61	1
6807.733	1036.249	10.20	1.42	0.90	2			7130.776	1074.399	6.98	1.05	0.76	1
6808.694	1036.396	10.44	1.50	1.13	2			7132.820	1074.707	7.34	1.17	0.98	1
6809.677	1036.545	10.56	1.59	1.22	2			7143.672	1076.342	6.89	1.03	0.71	1
6810.670	1036.696	10.78	1.66	1.41	2			7145.733	1076.653	7.22	1.18	0.90	1
6811.721	1036.856	10.94	1.75	1.25	2			7148.705	1077.100	6.68	0.85	0.52	1
6812.700	1037.005	10.68	1.59	1.12	2			7149.726	1077.254	6.83	0.97	0.66	1
6813.649	1037.150	10.08	1.31	0.91	2			7515.731	1132.401	6.89	1.04	0.76	1
6817.655	1037.760	10.84	1.73	1.52	2								
6818.656	1037.912	10.86	1.70	1.31	2								
6820.625	1038.212	10.17	1.36	0.95	2								
6833.637	1040.192	10.18	1.32	0.91	2								
BB	SGR												
J.D.	CYCLES	V	B-V	U-B	RF								
4585.455	690.894	7.04	1.02			7		3092.872	600.064	7.59	1.04		8
4586.455	691.044	6.68	0.82			7		3093.858	600.255	7.75	1.12		8
4587.442	691.193	6.76	0.91			7		3094.860	600.449	7.56	0.98		8
4925.546	742.136	6.71	0.86			7		3095.854	600.642	7.01	0.76		8
4931.474	743.029	6.72	0.85			7		3096.840	600.834	7.24	0.92		8
5244.686	790.221	6.81	0.95	0.67	5			3098.854	601.224	7.71	1.11		8
5256.643	792.022	6.75	0.86	0.56	5			3145.719	610.317	7.73	1.13		8
5303.410	799.069	6.69	0.86			7		3146.729	610.513	7.26	0.80		8
5304.381	799.215	6.80	0.95	0.66	6			3147.743	610.709	7.15	0.80		8
5305.394	799.368	6.93	1.03	0.74	6			3148.746	610.904	7.38	0.94		8
5306.375	799.515	7.08	1.10	0.82	6			3152.698	611.671	7.03	0.76		8
5309.499	799.986	6.84	0.91	0.59	6			3153.708	611.867	7.32	0.94		8
5310.388	800.120	6.69	0.87	0.57	6			3154.705	612.060	7.56	1.04		8
5349.320	805.986	6.82	0.89			7		4585.432	889.643	7.11	0.74		7
5350.229	806.123	6.72	0.85			-7		4586.441	889.839	7.36	0.91		7
5370.282	809.144	6.68	0.87			7		4587.424	890.029	7.61	1.02		7
6731.795	1014.284	6.86	0.99			2		4914.466	953.480	7.51	0.91		7
6735.765	1014.883	7.14	1.06			2		4925.535	955.628	7.13	0.72		7
6736.923	1015.057	6.69	0.85			2		4931.460	956.777	7.31	0.87		7
6741.902	1015.807	7.24	1.13			2		4988.344	967.814	7.36	0.89		7
6742.724	1015.931	6.89	0.99			2		5244.682	1017.547	7.21	0.78	0.49	5
6743.858	1016.102	6.74	0.89			2		5256.702	1019.879	7.44	0.96	0.68	5
6744.847	1016.251	6.83	0.96			2		5302.480	1028.761	7.28	0.87		7
6745.805	1016.395	6.93	1.04			2		5304.365	1029.127	7.68	1.06	0.76	6
6746.754	1016.538	7.19	1.06			2		5305.382	1029.324	7.84	1.08	0.78	6
6747.762	1016.690	7.25	1.18			2		5306.367	1029.515	7.35	0.84	0.52	6
6748.785	1016.844	7.22	1.10			2		5309.484	1030.120	7.69	1.06	0.76	6
6749.796	1016.997	6.77	0.89			2		5310.382	1030.294	7.80	1.09	0.79	6
6753.795	1017.599	7.11	1.12			2		5358.263	1039.584	7.11	0.72		7
6757.735	1018.193	6.76	0.98			2		5359.236	1039.772	7.32	0.87		7
6760.832	1018.659	7.25	1.14			2		7094.903	1376.518	7.31	0.82	0.47	1
6761.781	1018.802	7.27	1.16	0.73	2			7099.926	1377.492	7.42	0.87	0.49	1
6806.742	1025.577	7.10	1.11	0.86	2			7100.910	1377.683	7.19	0.81	0.49	1
								7143.790	1386.003	7.56	1.01	0.71	1
								7148.724	1386.960	7.52	1.02	0.65	1
								7149.739	1387.157	7.72	1.07	0.74	1

TABLE 1 (continued)

350 SGR						CONT.						741 SGR								
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	ST	TAU	J.D.	CYCLES	V	B-V	U-B	RF	
7159.704	1389.090	7.65	1.08	0.72	1	4572.529	301.698	11.29	1.79		7									
7162.704	1389.672	7.20	0.80	0.45	1	4573.500	301.762	11.29	1.81		7									
7226.600	1402.069	7.63	1.06	0.68	1	4950.457	326.634	11.07	1.69		-7									
7233.574	1403.422	7.70	0.98	0.64	1	4980.373	328.607	11.22	1.72		7									
						5331.300	351.762	11.23	1.81		7									
7239.572	1404.586	7.13	0.72	0.45	1															
7455.962	1446.569	7.11	0.73	0.48	1	5343.254	352.550	11.30	1.79		7									
7458.901	1447.139	7.73	1.09	0.76	1															
7533.685	1461.648	7.16	0.77	0.52	1															
626 SGR																				
J.D.	CYCLES	V	B-V	U-B	RF															
4562.535	170.594	11.98	0.79			4784.273	1185.920	8.42	0.99		7									
4564.562	170.670	12.22	0.91			5164.314	1280.124	8.55	1.06		7									
4573.444	171.002	12.83	0.59			5166.277	1280.611	7.81	0.78		5									
4574.438	171.039	12.42	0.57			5167.282	1280.860	8.20	1.00		5									
4575.483	171.078	12.12	0.48			5169.277	1281.354	8.41	0.99		5									
4576.460	171.115	11.85	0.44			5176.273	1283.089	8.45	1.06		5									
4577.496	171.153	11.70	0.42			5177.264	1283.334	8.49	1.01		5									
4929.470	184.314	11.93	0.69			5187.257	1285.811	8.20	0.94		7									
4931.434	184.387	11.85	0.75			5201.237	1289.277	8.57	1.08		5									
4953.446	185.210	11.64	0.57			5548.261	1375.297	8.58	1.04		7									
4979.371	186.180	11.67	0.46			5569.238	1380.496	7.84	0.69		7									
4988.299	186.513	11.94	0.76			5574.220	1381.731	8.09	0.84		7									
5611.539	209.816	12.75	0.91			7592.938	1882.129	8.47	1.07		1									
5623.476	210.263	11.81	0.63			7597.810	1883.336	8.49	0.98		1									
5624.517	210.302	11.78	0.67			7600.810	1884.080	8.49	1.03		1									
5626.543	210.377	11.82	0.67			7601.788	1884.322	8.49	1.01		1									
5627.403	210.410	11.94	0.64			7623.736	1889.763	8.10	0.90		1									
5628.510	210.451	11.84	0.75			7626.775	1890.516	7.80	0.71		1									
5629.476	210.487	11.96	0.72			7634.912	1892.533	7.79	0.70		1									
5630.465	210.524	12.02	0.71			7635.729	1892.736	8.11	0.87		1									
5631.368	210.558	12.02	0.78			7645.839	1895.242	8.55	1.06		1									
5634.456	210.673	12.19	0.89			7647.719	1895.708	8.04	0.80		1									
5636.430	210.747	12.49	0.80			7649.786	1896.220	8.55	1.05		1									
5637.403	210.783	12.43	0.86			7653.766	1897.207	8.51	1.02		1									
5638.451	210.823	12.53	0.86			7656.701	1897.934	8.37	0.98		1									
5639.474	210.861	12.65	0.83																	
5640.524	210.900	12.69	0.79																	
5641.452	210.935	12.69	0.73																	
5642.518	210.975	12.70	0.69																	
5652.339	211.342	11.90	0.75																	
5660.555	211.649	12.24	0.91			2880.899	1806.525	9.40	0.50		9									
5672.419	212.093	12.14	0.60			2882.840	1820.379	9.32	0.44		9									
						2882.869	1820.398	9.26	0.48		9									
						2882.986	1820.472	9.25	0.45		9									
						2883.759	1820.960	9.97	0.83		9									
738 SGR																				
J.D.	CYCLES	V	B-V	U-B	RF															
4574.450	105.426	11.73	1.42			2883.838	1821.010	10.04	0.85		9									
4575.513	105.451	11.84	1.41			2883.865	1821.027	10.10	0.82		9									
4577.519	105.497	11.87	1.46			2887.736	1823.471	9.42	0.46		9									
4578.499	105.520	11.89	1.43			2887.751	1823.480	9.40	0.46		9									
4953.461	114.161	11.76	1.48			2887.809	1823.517	9.39	0.50		9									
4961.336	114.343	12.19	1.60																	
5308.469	122.343	11.90	1.50																	
5310.336	122.386	11.96	1.60																	

TABLE 1 (continued)

SW	TAU	CONT.				R	TRA	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4369.889	2759.382	9.40	0.48		9	4634.236	1367.319	6.92	0.85		7
4418.743	2790.231	9.77	0.59		9						
4424.710	2793.998	10.14	0.83		9	4907.374	1447.908	6.44	0.62		7
4425.736	2794.646	9.75	0.67		9	4920.444	1451.764	6.40	0.56		7
						4961.244	1463.802	6.47	0.59		7
7215.828	4556.459	9.41	0.55	0.34	1	4988.281	1471.779	6.42	0.55		7
7592.882	4794.551	9.63	0.65	0.50	1	5161.571	1522.908	6.42	0.65	0.38	5
7668.775	4842.475	9.46	0.55	0.46	1						
						5163.624	1523.513	6.83	0.86	0.57	5
	SZ TAU					5166.606	1524.393	6.85	0.86	0.63	5
						5167.634	1524.697	6.50	0.66	0.39	5
J.D.	CYCLES	V	B-V	U-B	RF	5176.586	1527.338	6.84	0.85	0.60	5
						5177.573	1527.629	6.72	0.75	0.48	5
2824.990	897.111	6.65	0.89		8						
2832.038	899.349	6.76	0.98		8	5184.586	1529.698	6.50	0.66	0.40	5
2832.949	899.638	6.61	0.80		8	5188.610	1530.885	6.46	0.60		7
2841.875	902.473	6.80	0.91		8	5195.601	1532.948	6.45	0.69	0.42	5
2848.910	904.707	6.52	0.76		8	5201.541	1534.701	6.50	0.65	0.38	5
						5205.558	1535.886	6.41	0.63	0.37	5
2860.806	908.485	6.76	0.90		8						
2864.912	909.788	6.45	0.75		8	5208.599	1536.783	6.33	0.58	0.33	5
2885.799	916.421	6.79	0.93		8	5236.495	1545.014	6.54	0.73	0.46	5
5505.279	1748.270	6.75	0.91		7	5238.525	1545.613	6.77	0.77	0.48	5
5532.291	1756.848	6.46	0.74		7	5241.508	1546.493	6.89	0.84	0.56	5
						5242.515	1546.790	6.33	0.58	0.33	5
5535.247	1757.787	6.42	0.74		7						
5542.241	1760.008	6.43	0.78		-7	5243.551	1547.096	6.64	0.78	0.51	5
5548.238	1761.912	6.44	0.81		7	5244.511	1547.379	6.87	0.85	0.59	5
5574.208	1770.159	6.59	0.83		7	5245.506	1547.672	6.63	0.69	0.41	5
7215.840	2291.480	6.62	0.92	0.51	1	5246.508	1547.968	6.50	0.70	0.44	5
						5282.378	1558.551	6.92	0.82		7
7592.894	2411.218	6.65	0.95	0.61	1						
7594.003	2411.570	6.51	0.86	0.53	1	5286.345	1559.722	6.47	0.61		7
7594.834	2411.834	6.38	0.80	0.54	1	5296.431	1562.698	6.54	0.62		7
7595.818	2412.147	6.62	0.92	0.60	1						
7597.804	2412.777	6.36	0.77	0.54	1						
	S TRA										
7600.793	2413.726	6.40	0.77	0.55	1	J.D.	CYCLES	V	B-V	U-B	RF
7601.783	2414.041	6.50	0.87	0.59	1						
7619.823	2419.769	6.36	0.79	0.54	1	4562.431	721.511	6.12	0.56		7
7623.704	2421.002	6.46	0.87	0.57	1	4563.451	721.672	6.18	0.65		7
7634.839	2424.538	6.53	0.87	0.58	1	4564.390	721.821	6.34	0.78		7
						4565.415	721.983	6.51	0.85		7
7635.691	2424.809	6.39	0.81	0.54	1	4567.397	722.296	6.81	0.94		7
7645.797	2428.018	6.51	0.86	0.56	1						
7646.700	2428.305	6.80	0.93	0.53	1	4568.326	722.443	6.36	0.71		7
7647.683	2428.617	6.49	0.79	0.50	1	4569.416	722.616	6.11	0.57		7
7649.769	2429.279	6.72	0.95	0.58	1	4572.356	723.081	6.63	0.92		7
						4574.312	723.390	6.62	0.79		7
7654.695	2430.844	6.38	0.78	0.56	1	4575.389	723.560	6.04	0.54		7
7655.643	2431.145	6.62	0.92	0.61	1						
7656.660	2431.468	6.64	0.89	0.55	1	4576.337	723.710	6.21	0.67		7
7663.670	2433.694	6.41	0.77	0.54	1	4577.354	723.871	6.38	0.80		7
	R TRA					4578.319	724.024	6.56	0.87		7
J.D.	CYCLES	V	B-V	U-B	RF	4579.310	724.180	6.69	0.95		7
						4580.327	724.341	6.75	0.90		7
4562.344	1346.107	6.72	0.77		7	5163.629	816.585	5.96	0.59	0.35	5
4563.422	1346.425	7.00	0.89		7	5167.629	817.218	6.71	0.98	0.74	5
4565.395	1347.008	6.62	0.70		7	5176.591	818.635	6.07	0.62	0.38	5
4577.341	1350.532	6.90	0.81		7	5177.580	818.792	6.28	0.78	0.53	5
4579.291	1351.108	6.67	0.74		-7	5184.604	819.903	6.40	0.80	0.58	5
						5185.672	820.071	6.59	0.92	0.69	5
4585.284	1352.876	6.42	0.62		7	5195.618	821.644	6.09	0.64	0.40	5
4586.294	1353.174	6.77	0.82		7	5201.562	822.584	6.02	0.58	0.35	5
4587.283	1353.466	6.93	0.86		7	5205.562	823.217	6.73	0.97	0.73	5
4588.320	1353.772	6.40	0.56		7	5208.602	823.698	6.15	0.68	0.43	5

TABLE 1 (continued)

S	TRA	CONT.				U	TRA	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5236.499	828.109	6.59	0.93	0.69	5	5611.454	2184.857	8.08	0.73		7
5238.529	828.430	6.37	0.73	0.48	5	5612.336	2185.201	8.32	0.76		7
5241.526	828.904	6.37	0.82	0.58	5	5612.556	2185.286	8.12	0.66		7
5242.531	829.063	6.58	0.91	0.67	5	5616.322	2186.753	7.83	0.60		7
5243.569	829.227	6.73	0.97	0.73	5	5616.395	2186.781	7.93	0.65		7
5244.526	829.379	6.59	0.84	0.58	5	5621.426	2188.740	7.76	0.55		7
5245.523	829.536	6.02	0.57	0.34	5	5621.457	2188.752	7.79	0.61	-7	
5246.525	829.695	6.15	0.68	0.44	5	5622.322	2189.089	8.20	0.77		7
						5622.416	2189.125	8.21	0.76		7
						5623.397	2189.507	7.44	0.39		7
U TRA											
J.D.	CYCLES	V	B-V	U-B	RF	5623.485	2189.542	7.54	0.43		7
4562.459	1776.424	8.02	0.62		7	5624.302	2189.860	8.10	0.74		7
4565.448	1777.588	7.82	0.53		7	5624.487	2189.932	8.14	0.73		7
4574.340	1781.050	8.10	0.71		7	5625.520	2190.334	8.01	0.61		7
4579.319	1782.989	8.06	0.72		7	5626.346	2190.656	7.88	0.57		7
4580.343	1783.387	8.02	0.63		7	5626.395	2190.675	7.87	0.58		7
						5626.502	2190.716	7.84	0.58		7
						5627.305	2191.029	8.10	0.71		7
						5627.353	2191.048	8.10	0.72		7
4585.293	1785.315	8.00	0.62		7	5628.368	2191.443	7.86	0.56		7
4586.307	1785.709	7.87	0.61		7	5628.408	2191.458	7.70	0.49		7
4907.398	1910.728	7.89	0.64		7	5629.309	2191.809	7.94	0.66		7
4917.479	1914.653	7.76	0.57		7	5630.377	2192.225	8.29	0.78		7
4922.472	1916.598	7.48	0.42		7	5631.291	2192.581	7.81	0.56		7
4930.444	1919.701	7.86	0.61		7	5631.472	2192.651	7.89	0.61		7
5167.600	2012.040	8.07	0.77	0.48	5	5634.257	2193.736	7.73	0.54		7
5169.583	2012.812	7.94	0.69	0.44	5	5636.236	2194.506	7.48	0.40		7
5176.601	2015.544	7.58	0.51	0.28	5	5636.306	2194.534	7.54	0.43		7
5177.584	2015.927	8.06	0.75	0.50	5	5637.326	2194.931	8.14	0.75	-7	
						5637.371	2194.948	8.14	0.75		7
5184.616	2018.665	7.86	0.62	0.36	5	5637.473	2194.988	8.17	0.74		7
5195.629	2022.953	8.12	0.77	0.51	5	5638.347	2195.328	8.09	0.66	-7	
5201.565	2025.264	8.22	0.75	0.48	5	5639.255	2195.682	7.85	0.56		7
5205.570	2026.824	7.84	0.65	0.39	5	5639.278	2195.691	7.82	0.55		7
5208.610	2028.007	8.15	0.78	0.51	5	5640.293	2196.086	8.11	0.71		7
5236.507	2038.869	7.89	0.65	0.40	5	5640.381	2196.120	8.16	0.75		7
5238.537	2039.660	7.68	0.57	0.33	5	5641.288	2196.473	7.53	0.42		7
5241.539	2040.828	7.93	0.69	0.42	5	5641.394	2196.515	7.35	0.37		7
5242.543	2041.219	8.12	0.73	0.47	5	5642.211	2196.833	7.98	0.69		7
5243.582	2041.624	7.50	0.47	0.22	5	5642.425	2196.916	8.12	0.73		7
5244.537	2041.996	8.07	0.76	0.50	5	5643.295	2197.255	8.25	0.74		7
5245.535	2042.384	7.73	0.53	0.28	5	5643.472	2197.324	8.04	0.61		7
5246.539	2042.775	7.94	0.70	0.43	5	5644.352	2197.666	7.91	0.61		7
5251.540	2044.722	7.85	0.64		7	5644.395	2198.480	7.86	0.55		7
5257.444	2047.021	8.13	0.78	0.51	5	5647.213	2198.780	7.83	0.59		7
5273.336	2053.209	8.09	0.72	0.44	6	5646.442	2198.480	7.86	0.55		7
5282.390	2056.734	7.86	0.61		7	5647.213	2198.780	7.83	0.59		7
5302.309	2064.490	7.50	0.41		7	5647.238	2198.790	7.82	0.60		7
5315.284	2069.541	7.66	0.49		7	5652.264	2200.747	7.84	0.56		7
5348.256	2082.379	7.89	0.57		7	5654.282	2201.533	7.40	0.37		7
5349.244	2082.764	7.88	0.60		7	5655.411	2201.972	8.20	0.78		7
5567.552	2167.764	7.97	0.68		7	5656.255	2202.301	8.10	0.66		7
5573.622	2170.127	8.25	0.79		7	5656.407	2202.360	7.90	0.63		7
5580.413	2172.771	7.99	0.70		7	5657.236	2202.683	7.94	0.65		7
5595.370	2178.595	7.74	0.52		7	5657.350	2202.727	7.94	0.64		7
5608.452	2183.688	7.72	0.52		7	5660.304	2203.877	8.00	0.67		7
5609.377	2184.049	8.16	0.74		7	5660.341	2203.892	8.04	0.72		7
5609.464	2184.082	8.19	0.76		7	5661.408	2204.307	8.25	0.72		7
5611.384	2184.830	8.05	0.71		7	5664.209	2205.398	7.89	0.62	-7	
5611.450	2184.856	8.19	0.72		7						

TABLE I (continued)

U TRA		CONT.				T VEL		CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5665.360	2205.846	7.90	0.62		7	5208.370	1122.547	8.20	1.09	0.83	5
5667.212	2206.567	8.01	0.66		7	5246.273	1130.716	8.30	1.09	0.81	5
5668.363	2207.015	8.20	0.76		7	5257.248	1133.082	7.75	0.82	0.53	5
5669.205	2207.343	8.00	0.60		7						
5672.319	2208.555	7.49	0.39		7						
5677.212	2210.461	7.98	0.59		7						
5678.408	2210.926	8.03	0.68		7						
5681.222	2212.022	8.24	0.79		7						
5682.204	2212.404	7.93	0.55		7	4521.228	1034.371	7.39	0.68		7
5683.202	2212.793	7.97	0.67		7	4529.283	1036.214	7.24	0.60		7
5685.202	2213.572	7.49	0.42		7	4533.299	1037.133	7.58	0.71		7
5686.218	2213.967	8.17	0.76		7	4885.333	1117.672	7.76	0.88		7
5687.398	2214.427	7.64	0.41		7	4886.286	1117.890	7.89	0.94		7
5688.202	2214.740	8.01	0.67		7	4890.342	1118.818	7.80	0.94		7
5689.208	2215.131	8.17	0.73		7	4893.290	1119.492	7.52	0.79		7
5691.207	2215.910	8.00	0.70		7	4895.269	1119.945	7.94	0.95		7
5691.261	2215.931	8.00	0.70		7	4901.319	1121.329	7.35	0.68		7
5692.332	2216.348	8.24	0.70		7	4913.231	1124.054	7.78	0.89		7
						4917.238	1124.971	7.93	0.92		-7
						4918.265	1125.206	7.27	0.60		-7
						4920.263	1125.663	7.67	0.90		-7
						5169.407	1182.663	7.65	0.88	0.61	5
						5177.379	1184.486	7.43	0.81	0.53	5
3765.140	811.491	8.20	0.99		9	5185.458	1186.335	7.29	0.69	0.41	5
3776.010	813.834	8.29	0.99		9	5201.359	1189.973	7.89	0.96	0.68	5
3778.070	814.278	8.03	0.91		9	5208.393	1191.582	7.59	0.88	0.60	5
3779.015	814.482	8.19	1.00		9	5238.333	1198.431	7.42	0.78	0.52	5
3796.915	818.340	8.14	0.97		9	5245.317	1200.029	7.87	0.92	0.64	5
3797.005	818.359	7.71	0.73		9	5246.286	1200.251	7.20	0.62	0.36	5
4510.245	972.082	7.82	0.79		7	5275.199	1206.866	7.81	0.96	0.54	6
4519.298	974.033	7.71	0.72		7	5292.220	1210.760	7.74	0.93	0.65	5
4565.220	983.931	7.86	0.67		-7	5293.236	1210.992	7.90	0.94	0.67	5
4808.158	1036.290	8.06	0.92		9						
4820.022	1038.847	8.13	0.88		9						
4826.107	1040.159	7.85	0.86		9						
4830.003	1040.999	7.73	0.73		9						
4833.069	1041.659	8.32	1.07		9						
4834.035	1041.868	8.11	0.87		9	4510.345	160.367	7.98	1.16		7
4834.326	1041.930	7.86	0.78		-7	4512.351	160.439	8.07	1.25		7
4839.244	1042.990	7.70	0.76		7	4534.303	161.219	8.12	1.18		7
4840.058	1043.166	7.92	0.86		9	4535.329	161.256	7.95	1.08		7
4840.289	1043.215	7.91	0.91		7	4536.294	161.290	7.93	1.12		7
4844.069	1044.030	7.72	0.76		9	4847.283	172.347	7.98	1.19		7
4844.985	1044.228	7.97	0.91		9	4929.290	175.263	7.93	1.11		7
4847.992	1044.876	8.05	0.88		9	4932.278	175.369	8.05	1.24		7
4855.991	1046.600	8.32	1.03		9	5164.424	183.624	8.39	1.51	1.18	5
4859.015	1047.251	8.01	0.90		9	5184.405	184.334	7.98	1.16	0.82	5
4867.336	1049.045	7.77	0.75		7						
4867.984	1049.185	7.88	0.88		9						
4872.001	1050.050	7.75	0.75		9						
4872.995	1050.265	8.01	0.95		9	5198.425	184.832	8.68	1.60	1.27	5
4886.251	1053.122	7.88	0.85		7	5208.409	185.187	8.23	1.25	0.89	5
4890.293	1053.993	7.72	0.75		7	5238.350	186.252	7.91	1.10	0.74	5
4895.244	1055.060	7.76	0.79		7						
5163.380	1112.850	8.05	0.96	0.69	5	5244.333	186.465	8.16	1.35	1.00	5
5169.387	1114.145	7.80	0.89	0.61	5	5267.290	187.281	7.89	1.11	0.77	5
5177.349	1115.861	8.06	0.95	0.65	5	5268.269	187.316	7.92	1.14	0.77	5
5201.334	1121.031	7.69	0.78	0.49	5	5270.290	187.388	8.03	1.23	0.87	5

TABLE 1 (continued)

RZ VEL						SV VEL						CONT.					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
3765.135	184.597	6.53	0.79		9	5165.444	366.420	8.07	0.84	0.52	5						
3776.006	185.130	7.52	1.48		9	5167.435	366.561	8.23	0.99	0.68	5						
3776.992	185.178	7.56	1.48		9	5198.463	368.762	8.65	1.25	0.87	5						
3778.040	185.230	7.65	1.50		9	5242.389	371.878	8.76	1.35	1.03	5						
3779.010	185.277	7.66	1.39		9	5244.402	372.021	9.01	1.40	1.08	5						
3796.910	186.155	7.55	1.49		9	5245.384	372.090	9.06	1.39	1.11	5						
4517.244	221.471	7.53	1.28		7												
4519.290	221.572	6.45	0.73		7	5246.342	372.158	9.03	1.34	1.01	5						
4562.198	223.675	6.66	0.89		-7	5292.248	375.415	8.10	0.86	0.53	5						
4808.151	235.734	6.78	1.00		9												
SW VEL																	
4820.036	236.317	7.55	1.36		9	J.D.	CYCLES	V	B-V	U-B	RF						
4826.115	236.615	6.52	0.77		9	4519.308	192.521	8.56	1.25		7						
4830.022	236.806	6.88	1.15		9	4520.265	192.562	7.85	0.86		7						
4833.062	236.955	7.14	1.35		9	4521.195	192.601	7.56	0.77		7						
4834.056	237.004	7.25	1.36		9	4544.213	193.582	7.63	0.79		7						
4844.081	237.496	7.29	1.14		9	4546.217	193.667	7.59	0.81		7						
4844.997	237.540	6.49	0.72		9												
4848.002	237.688	6.69	0.92		9	4808.170	204.826	7.92	1.14		9						
4865.348	238.538	6.52	0.78		7	4830.007	205.756	7.84	1.07		9						
4866.281	238.584	6.42	0.76		7	4833.072	205.887	7.99	1.25		9						
4867.977	238.667	6.61	0.91		9	4834.040	205.928	8.03	1.27		9						
4871.996	238.864	6.95	1.23		9	4840.063	206.185	8.50	1.57		9						
4873.008	238.914	7.11	1.29		9												
4886.243	239.563	6.48	0.75		7	4844.988	206.395	8.74	1.47		9						
4906.285	240.545	6.49	0.53		-7	4847.995	206.523	8.53	1.23		9						
4907.239	240.592	6.60	0.87		7	4872.004	207.545	8.13	1.03		9						
5169.382	253.444	7.56	1.33	1.03	5	4872.999	207.588	7.59	0.79		9						
5177.345	253.835	6.93	1.23	0.95	5	4922.196	209.684	7.60	0.89		-7						
5201.325	255.010	7.24	1.42	1.18	5												
5208.362	255.355	7.59	1.38	1.10	5	5163.389	219.958	8.01	1.34	1.11	5						
5246.265	257.214	7.63	1.50	1.25	5	5164.386	220.001	8.09	1.40	1.15	5						
5247.218	257.261	7.63	1.46	1.23	5	5167.365	220.128	8.37	1.46	1.30	5						
5267.238	258.242	7.64	1.49	1.25	5	5201.341	221.575	7.62	0.82	0.53	5						
						5208.374	221.875	7.96	1.24	0.94	5						
ST VEL																	
J.D.	CYCLES	V	B-V	U-B	RF												
4834.344	825.195	9.60	1.13		7												
4869.369	831.174	9.54	1.15		7	5256.286	223.916	8.01	1.31	1.03	5						
4886.260	834.057	9.44	1.04		7	5257.253	223.957	8.08	1.35	1.07	5						
5164.389	881.532	9.81	1.35	1.04	5	5270.241	224.510	8.61	1.32	1.01	5						
5239.310	894.321	9.66	1.24	0.89	5	5481.238	233.499	8.74	1.33		9						
SX VEL																	
J.D.	CYCLES	V	B-V	U-B	RF												
5242.322	894.835	9.93	1.29	1.04	5	4510.253	472.281	8.01	0.76		7						
5257.258	897.384	9.71	1.27	0.99	5	4519.314	473.230	8.00	0.73		7						
5267.251	899.090	9.40	1.07	0.75	5	4520.283	473.332	8.08	0.77		7						
5270.253	899.602	9.91	1.39	1.00	5	4529.269	474.273	7.97	0.74		7						
5547.484	946.924	9.64	1.20		7	4834.334	506.217	8.07	0.74		-7						
						4921.189	515.312	8.09	0.83		-7						
5595.331	955.091	9.41	1.09		7	4930.185	516.254	8.02	0.76		-7						
5612.280	957.985	9.42	1.07		7	5169.400	541.302	7.96	0.79	0.53	5						
5630.271	961.055	9.41	1.04		7	5176.363	542.032	8.01	0.78	0.51	5						
						5177.363	542.136	8.01	0.80	0.53	5						
SV VEL																	
J.D.	CYCLES	V	B-V	U-B	RF												
4517.395	320.449	7.91	0.77		7	5201.348	544.648	8.56	1.10	0.82	5						
4532.377	321.512	8.16	0.88		7	5208.382	545.384	8.18	0.95	0.67	5						
4572.222	324.339	8.80	1.17		7	5238.315	548.519	8.36	1.05	0.77	5						
4869.447	345.423	8.10	0.83		7	5245.313	549.252	7.93	0.78	0.50	5						
						5270.248	551.863	8.53	1.02	0.75	5						

TABLE 1 (continued)

SX	VEL	CONT.				AH	VEL	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5568.410	583.084	8.02	0.75		7	4519.277	1069.102	5.59	0.50		7
5626.223	589.138	8.04	0.78		7	4523.258	1070.044	5.66	0.52		7
5636.198	590.182	8.00	0.80		7	4532.209	1072.161	5.52	0.48		7
						4536.208	1073.107	5.66	0.50		7
XX VEL											
J.D.	CYCLES	V	B-V	U-B	RF	4545.203	1075.235	5.54	0.49		7
4532.357	648.910	10.26	0.98		7	4833.330	1143.396	5.68	0.57		7
4533.326	649.049	10.44	1.09		7	4834.285	1143.622	5.87	0.63		7
4573.275	654.768	11.00	1.32		7	4847.244	1146.688	5.84	0.66		7
4839.279	692.853	10.53	1.09		7	4865.326	1150.965	5.79	0.60		7
4895.378	700.885	10.37	1.01		7	4866.259	1151.186	5.51	0.47		7
						4867.291	1151.430	5.68	0.58		7
4917.306	704.024	10.41	1.04		7	4869.295	1151.904	5.84	0.62		7
4924.299	705.025	10.36	1.06		7	4885.270	1155.683	5.89	0.66		7
5164.472	739.412	10.87	1.37	1.06	-5	4893.238	1157.568	5.81	0.63		7
5167.406	739.832	10.58	1.16	0.88	-5	4895.232	1158.040	5.69	0.57		7
5184.436	742.270	10.53	1.20	0.96	-5	4908.208	1161.109	5.65	0.51		7
5192.491	743.423	10.83	1.35	1.04	-5	4913.208	1162.292	5.51	0.54		-7
5195.460	743.848	10.53	1.11	0.76	5	4918.218	1163.477	5.88	0.63		-7
5223.298	747.834	10.59	1.15	0.69	6	5161.383	1221.002	5.70	0.62	0.39	5
5239.356	750.133	10.53	1.19	0.80	-5	5169.348	1222.886	5.80	0.67	0.43	5
5242.362	750.563	11.01	1.45	1.06	-5	5176.351	1224.543	5.74	0.67	0.45	5
5244.374	750.851	10.53	1.05	0.77	5	5177.335	1224.775	5.82	0.70	0.48	5
5245.356	750.992	10.31	1.02	0.71	5	5201.302	1230.445	5.68	0.64	0.41	5
5270.313	754.565	11.03	1.34	1.13	-5	5208.322	1232.106	5.57	0.57	0.34	5
						5209.355	1232.350	5.62	0.61	0.38	5
						5270.193	1246.742	5.83	0.69	0.47	5
						5841.212	1381.825	5.80	0.65		9
AE VEL											
J.D.	CYCLES	V	B-V	U-B	RF	AM VEL					
4522.242	633.938	10.15	1.18		7	4533.236	602.587	13.54	1.39		7
4529.304	634.928	10.20	1.21		7	4534.209	602.716	13.02	1.13		-7
4531.316	635.210	10.03	1.25		7	4535.205	602.849	12.92	0.90		7
4573.215	641.084	9.88	1.08		7	4834.315	642.608	13.45	1.13		-7
4865.381	682.040	9.89	1.07		7	4865.339	646.732	13.01	0.96		7
4886.308	684.974	9.99	1.11		7	5535.434	735.805	12.92	0.81		7
4895.319	686.237	10.18	1.24		7	5573.429	740.856	12.91	0.93		7
4922.270	690.015	9.89	1.09		7	5609.318	745.627	13.60	1.42		7
5164.403	723.958	10.04	1.13	0.76	5	5535.434	735.805	12.92	0.81		7
5165.392	724.096	9.91	1.08	0.74	5	5573.429	740.856	12.91	0.93		7
5184.374	726.757	10.67	1.42	1.25	-5	5609.318	745.627	13.60	1.42		7
5185.475	726.912	10.28	1.26	0.85	5	5573.429	740.856	12.91	0.93		7
5239.315	734.459	10.32	1.38	1.03	-5	5609.318	745.627	13.60	1.42		7
5242.331	734.882	10.41	1.30	0.92	-5	5573.429	740.856	12.91	0.93		7
5246.301	735.438	10.30	1.32	0.99	-5	5573.429	740.856	12.91	0.93		7
5257.286	736.978	9.93	1.12	0.75	5	5609.318	745.627	13.60	1.42		7
5267.262	738.377	10.17	1.29	1.05	-5	5609.318	745.627	13.60	1.42		7
5270.267	738.798	10.64	1.39	0.99	-5	5609.318	745.627	13.60	1.42		7
5276.205	739.630	10.60	1.47	1.13	5	5609.318	745.627	13.60	1.42		7
AH VEL											
J.D.	CYCLES	V	B-V	U-B	RF	4919.255	1573.155	9.96	1.05		7
3775.892	893.243	5.53	0.52		9	5164.377	1651.544	9.84	1.06	0.72	5
3776.889	893.479	5.70	0.63		9	5167.357	1652.497	9.94	1.06	0.79	5
3777.909	893.720	5.87	0.64		9	5223.339	1670.399	9.99	1.01		7
3778.901	893.955	5.79	0.62		9	5239.304	1675.505	9.85	0.99	0.69	5
3783.993	895.160	5.51	0.55		9	5242.317	1676.469	10.00	1.08	0.74	5
4454.110	1053.686	5.89	0.64		9	5246.277	1677.735	10.10	1.12	0.79	5
						5256.282	1680.934	10.42	1.24		7

TABLE 1 (continued)

AP	VEL	CONT.				BG	VEL	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5267.242	1684.439	10.07	1.10	0.73	5	4918.241	710.362	7.55	1.12		-7
5270.237	1685.397	9.70	0.94	0.61	5	4919.265	710.510	7.45	1.12		7
5274.189	1686.661	10.18	1.14	0.76	6	4921.227	710.793	7.69	1.25		-7
AX VEL											
J.D.	CYCLES	V	B-V	U-B	RF	CO VEL					
4519.268	1742.261	8.34	0.75		7	5201.351	751.253	7.71	1.20	0.88	5
4522.197	1743.390	8.41	0.70		7	5208.385	752.269	7.69	1.19	0.84	5
4529.229	1746.101	8.37	0.77		7	5163.399	745.771	7.55	1.20	0.90	5
4833.323	1863.335	8.39	0.80		7	5176.375	747.645	7.49	1.17	0.88	5
4834.278	1863.703	8.20	0.66		7	5177.368	747.789	7.58	1.24	0.93	5
4835.384	1864.129	8.22	0.72		7	5270.257	761.205	7.81	1.25	0.91	5
4839.238	1865.615	7.94	0.56		7	5276.210	762.065	7.88	1.33	0.94	6
4847.237	1868.699	7.99	0.61		7	5292.213	764.376	7.48	1.09	0.75	5
4861.322	1874.129	8.30	0.76		7	CX VEL					
4867.284	1876.428	8.40	0.78		7	4532.247	1060.051	12.84	1.60		7
4869.291	1877.201	8.34	0.78		7	4546.203	1063.315	12.27	1.55		7
4885.263	1883.359	8.50	0.81		7	4812.408	1125.578	12.62	2.00		7
4889.270	1884.904	8.32	0.69		7	4914.241	1149.396	12.49	1.74		-7
4907.224	1891.825	8.31	0.73		7	4918.229	1150.328	12.35	1.77		-7
4914.226	1894.525	8.29	0.73		7	5555.455	1299.370	12.36	1.80		7
4917.204	1895.673	8.11	0.61		7	5567.375	1302.158	12.17	1.64		7
5161.370	1989.803	8.13	0.72	0.44	5	5609.293	1311.962	12.93	1.83		7
5169.343	1992.877	8.10	0.68	0.42	5	CX VEL					
5176.346	1995.577	8.07	0.66	0.40	5	5194.424	2002.546	8.27	0.70		7
5177.330	1995.956	8.10	0.72	0.47	5	5201.298	2005.196	8.43	0.86	0.58	5
5208.317	2007.902	8.20	0.77	0.49	5	5209.341	2008.297	8.37	0.81	0.53	5
5246.245	2022.524	8.10	0.68	0.41	5	5256.257	2026.384	8.37	0.82	0.55	5
5256.260	2026.385	8.46	0.79		7	5256.260	2026.385	8.46	0.79	0.40	5
5257.239	2026.762	8.04	0.66	0.40	5	5270.224	2031.768	8.11	0.70	0.44	5
BG VEL											
J.D.	CYCLES	V	B-V	U-B	RF	DD VEL					
4510.260	651.436	7.92	1.07		-7	4532.281	343.490	12.43	1.53		7
4517.266	652.448	7.44	1.05		7	4533.290	343.566	12.32	1.63		7
4529.275	654.182	7.87	1.25		7	4534.281	343.642	12.18	1.40		7
4530.266	654.325	7.59	1.11		7	4535.257	343.716	12.17	1.53		7
4532.260	654.613	7.51	1.14		7	4890.331	370.626	12.29	1.39		-7
4833.382	698.106	7.88	1.33		7	4893.251	370.847	12.31	1.71		-7
4834.362	698.247	7.77	1.17		7	4918.251	372.742	12.24	1.61		-7
4839.252	698.953	7.76	1.29		7	4920.237	372.892	12.32	1.65		-7
4847.269	700.111	7.93	1.33		7	4929.196	373.571	12.39	1.53		-7
4865.356	702.724	7.64	1.20		7	DP VEL					
4867.344	703.011	7.85	1.31		7	4869.378	703.305	7.64	1.16		7
4885.302	705.605	7.56	1.13		7	4890.317	706.329	7.59	1.14		7
4895.252	707.042	7.88	1.32		7	4895.252	707.042	7.88	1.32		7
4901.306	707.916	7.77	1.29		7	4906.307	708.638	7.57	1.18		7
J.D. CYCLES V B-V U-B RF											

TABLE 1 (continued)

DP	VEL	CONT.				W	VIR	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4921.257	897.322	11.89	1.29	-	7	3040.819	176.006	10.09	0.92	-	9
4922.241	897.502	11.61	1.22	-	7	3059.740	177.101	10.55	0.95	-	9
4929.213	898.773	11.97	1.54	-	7	3060.795	177.162	10.64	0.97	-	9
5223.356	952.406	11.55	1.26	-	7	3062.741	177.275	10.53	0.76	-	9
5251.293	957.500	11.49	1.26	-	7	3063.771	177.334	10.34	0.64	-	9
	DR VEL					3069.726	177.679	9.51	0.62	-	9
						3082.767	178.434	9.98	0.52	-	9
J.D.	CYCLES	V	B-V	U-B	RF	3083.762	178.492	9.77	0.48	-	9
4536.280	405.025	9.58	1.51	-	7	3087.743	178.722	9.46	0.68	-	9
4561.203	407.250	9.30	1.40	-	7	3089.726	178.837	9.64	0.74	-	9
4865.366	434.408	9.42	1.57	-	7	3090.729	178.895	9.70	0.78	-	9
4886.296	436.276	9.25	1.39	-	7	3091.722	178.952	9.80	0.85	-	9
4895.292	437.080	9.57	1.51	-	7	3092.740	179.011	10.15	0.92	-	9
4917.248	439.040	9.55	1.51	-	7	4900.693	283.657	9.52	0.64	0.44	12
4929.225	440.109	9.53	1.48	-	7	4901.708	283.716	9.53	0.68	0.47	12
4930.195	440.196	9.24	1.36	-	7	4904.697	283.889	9.85	0.79	0.74	12
5223.376	466.373	9.34	1.53	-	7	4907.703	284.063	10.64	1.02	0.84	12
5224.377	466.462	9.49	1.62	-	7	4907.781	284.068	10.64	1.03	0.80	12
5256.295	469.312	9.25	1.44	-	7	4921.701	284.885	9.84	0.81	0.64	12
5285.216	471.894	9.82	1.67	-	7	4922.692	284.931	10.05	0.89	0.80	12
5286.220	471.984	9.64	1.59	-	7	4923.685	284.988	10.30	0.97	0.96	12
	EX VEL					4923.753	284.992	10.35	0.96	0.92	12
						4924.683	285.046	10.55	1.03	0.98	12
J.D.	CYCLES	V	B-V	U-B	RF	4924.739	285.049	10.58	1.02	0.96	12
4510.281	340.790	11.25	1.43	-	7	4925.682	285.104	10.69	0.98	0.84	12
4536.247	342.752	11.35	1.42	-	7	4926.687	285.162	10.65	0.88	0.54	12
4565.233	344.942	11.56	1.50	-	7	4927.689	285.220	10.54	0.76	0.34	12
4573.201	345.544	12.04	1.54	-	7	4928.678	285.277	10.43	0.69	0.24	12
4893.273	369.728	11.45	1.48	-	7	4933.688	285.567	9.57	0.58	0.25	12
	FG VEL					4934.687	285.625	9.48	0.62	0.33	12
						4935.674	285.682	9.51	0.67	0.41	12
4920.251	371.766	11.20	1.47	-	7	4936.684	285.741	9.51	0.67	0.51	12
4921.238	371.841	11.31	1.46	-	7	4950.674	286.550	9.52	0.58	0.26	12
4922.226	371.915	11.32	1.66	-	7	4951.671	286.608	9.49	0.59	0.41	12
5224.362	394.744	11.38	1.45	-	7	4963.672	287.303	10.39	0.74	0.24	12
5285.203	399.341	12.03	1.78	-	7	4964.663	287.360	10.11	0.53	0.15	12
	W VIR					4965.658	287.418	9.68	0.44	0.12	12
						4966.659	287.476	9.56	0.46	0.17	12
J.D.	CYCLES	V	B-V	U-B	RF	5188.597	300.322	10.23	0.57	-	7
4517.277	700.006	11.61	1.45	-	7	5308.331	307.252	10.60	0.78	-	7
4529.294	701.868	11.62	1.40	-	7	5309.261	307.306	10.46	0.72	-	7
4531.305	702.180	11.70	1.61	-	7	5555.582	321.563	9.69	0.66	-	7
4532.319	702.337	11.89	1.70	-	7	5567.532	322.255	10.44	0.68	-	7
4895.308	758.586	12.07	1.78	-	7	5608.420	324.622	9.20	1.09	-	7
	FG VEL					5609.435	324.680	9.63	0.74	-	7
4922.256	762.762	11.99	1.49	-	7	5611.488	324.799	9.83	0.84	-	7
4924.237	763.069	11.77	1.38	-	7	5612.350	324.849	9.93	0.89	-	7
4929.235	763.844	11.65	1.52	-	7	5621.406	325.373	9.98	0.57	-	7
5253.244	814.053	11.62	1.51	-	7	5622.333	325.427	9.57	0.48	-	7
5303.206	821.795	11.83	1.54	-	7	5623.358	325.486	9.07	1.51	-	7
5310.194	822.878	11.62	1.43	-	7	5624.262	325.538	9.59	0.59	-	7
	W VIR					5626.318	325.657	9.59	0.67	-	7
						5627.262	325.712	9.59	0.70	-	7
J.D.	CYCLES	V	B-V	U-B	RF	5628.333	325.774	9.66	0.72	-	7
2944.976	170.458	9.83	0.54	-	9	5629.298	325.830	9.80	0.77	-	7
2948.042	170.636	9.51	0.61	-	9	5630.335	325.890	9.97	0.84	-	7
						5631.280	325.945	10.16	0.91	-	7

TABLE 1 (continued)

TABLE 1 (continued)

AL	VIR	CONT.				U	VUL	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7458.678	724.146	9.95	0.76	0.54	1	6741.811	843.710	6.91	1.21		2
7459.695	724.244	9.84	0.66	0.43	1	6742.737	843.826	6.98	1.27		2
7460.696	724.341	9.77	0.55	0.33	1	6744.819	844.086	7.34	1.46		2
7462.708	724.537	9.15	0.38	0.30	1	6745.852	844.215	7.43	1.51		2
7469.699	725.216	9.95	0.69	0.50	1	6746.758	844.329	7.50	1.50		2
7470.683	725.311	9.83	0.59	0.40	1	6746.822	844.337	7.42	1.45		2
T VUL						6747.769	844.455	7.24	1.36		2
J.D.						6748.791	844.583	6.83	1.15		2
2758.774						6749.803	844.710	6.87	1.22		2
2768.778						6753.842	845.215	7.44	1.51		2
2770.875						6755.886	845.471	7.19	1.34		2
2771.889						6757.725	845.701	6.89	1.21		2
2772.868						6757.942	845.728	6.90	1.25		2
2773.799						6761.791	846.210	7.43	1.50		2
2773.799						6767.729	846.953	7.10	1.36		2
3102.804						6794.640	850.321	7.46	1.45	1.10	2
3103.849						6811.753	852.463	7.23	1.34	0.97	2
3133.726						6812.892	852.605	6.83	1.14	0.74	2
3146.771						6833.771	855.218	7.43	1.50	1.17	2
3153.878						6836.721	855.587	6.81	1.18	0.84	2
3154.854						6852.726	857.590	6.75	1.16	0.79	2
3158.757						6858.710	858.339	7.46	1.44		2
3159.757						7191.683	900.009	7.20	1.41	1.02	1
3179.698						7198.724	900.891	6.97	1.28	0.91	1
5349.290						7200.767	901.146	7.39	1.49	1.16	1
5370.331						7201.777	901.273	7.52	1.49	1.29	1
7131.906						7201.782	901.273	7.50	1.51		1
7142.830						7202.645	901.381	7.43	1.44	1.01	1
7143.876						7226.690	904.390	7.43	1.45	0.99	1
7144.855						7232.656	905.137	7.41	1.47	1.13	1
7147.863						7233.609	905.256	7.48	1.49	1.16	1
7178.804						7237.612	905.757	6.95	1.25	0.84	1
7183.743						7239.601	906.006	7.23	1.42	1.01	1
7214.684						7451.919	932.577	6.84	1.17	0.82	1
7215.665						7461.926	933.829	6.93	1.27	0.88	1
7220.627						7469.915	934.829	7.00	1.25	0.90	1
7515.829						7516.805	940.697	6.93	1.23	0.89	1
U VUL						X VUL					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5302.515	663.588	6.82	1.15		7	3093.962	489.605	8.95	1.52		8
5343.337	668.697	6.94	1.15		7	3094.955	489.762	9.09	1.60		8
5647.442	706.754	6.93	1.23		7	3095.955	489.921	9.25	1.64		8
5652.396	707.374	7.40	1.43		7	3096.941	490.077	9.17	1.52		8
5654.429	707.628	6.75	1.12		7	3098.938	490.393	8.71	1.33		8
5655.509	707.764	6.85	1.23		7	3101.962	490.871	9.20	1.63		8
5661.428	708.504	7.11	1.26		7	3102.955	491.028	9.25	1.63		8
5668.480	709.387	7.40	1.40		7	3103.957	491.187	8.75	1.32		8
5669.462	709.510	7.08	1.24		7	3122.823	494.172	8.82	1.36		8
6731.811	842.458	7.22	1.34		2	3123.917	494.345	8.64	1.24		8
6735.769	842.954	7.12	1.36		2	3125.913	494.661	8.95	1.53		8
6735.956	842.977	7.19	1.39		2	3126.924	494.821	9.19	1.62		8
6736.813	843.084	7.33	1.45		2	3153.823	499.078	9.19	1.54		8
6736.930	843.099	7.35	1.45		2	3154.809	499.234	8.55	1.20		8
						4905.528	776.277	8.86	0.24		-7

TABLE 1 (concluded)

X	VUL	CONT.				SV	VUL	CONT.			
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
5348.356	846.353	8.53	1.31		7	3092.948	68.575	7.06	1.43		8
5372.280	850.138	9.00	1.51		7	3093.955	68.598	6.97	1.45		8
7118.906	1126.534	8.77	1.46	1.04	1	3094.948	68.620	7.02	1.52		8
7147.764	1131.100	9.13	1.59	1.17	1						
7148.849	1131.272	8.47	1.27	0.89	1	3095.948	68.642	7.04	1.50		8
						3096.936	68.664	7.05	1.54		8
7149.865	1131.433	8.61	1.39	0.99	1	3098.944	68.708	7.22	1.57		8
7156.856	1132.539	8.70	1.47	1.08	1	3101.958	68.775	7.25	1.67		8
7159.806	1133.006	9.18	1.68	1.36	1	3102.948	68.797	7.27	1.68		8
7178.724	1136.000	9.17	1.66	1.34	1						
7201.729	1139.640	8.84	1.52	1.14	1	3103.951	68.819	7.31	1.69		8
						3123.910	69.262	7.69	1.46		8
7202.720	1139.797	9.03	1.64	1.22	1	3125.910	69.306	7.11	1.23		8
7205.699	1140.268	8.44	1.27	0.90	1	3126.917	69.328	6.95	1.14		8
7213.741	1141.541	8.67	1.50	1.08	1	3131.753	69.436	6.95	1.19		8
7215.642	1141.842	9.11	1.68	1.26	1						
7461.940	1180.817	9.05	1.63	1.26	1	3132.715	69.457	6.96	1.20		8
						3133.781	69.481	7.03	1.23		8
7462.929	1180.974	9.20	1.64	1.37	1	3134.913	69.506	6.97	1.27		8
7469.928	1182.081	9.22	1.59	1.26	1	3136.736	69.546	7.05	1.36		8
7472.879	1182.548	8.76	1.47	1.10	1	3137.764	69.569	7.13	1.41		8
7516.836	1189.504	8.80	1.44	1.18	1						
						3152.812	69.903	7.39	1.68		8
						3153.826	69.925	7.49	1.68		8
						3154.802	69.947	7.51	1.70		8
SV	VUL					J.D.	CYCLES	V	B-V	U-B	RF
							5343.343	118.470	6.78	1.20	7
							5348.317	118.580	6.93	1.38	7
2761.740	61.232	7.80	1.58		8						
2764.781	61.299	7.24	1.29		8	7050.967	156.330	6.87	1.20	0.87	1
2765.764	61.321	7.02	1.15		8	7118.917	157.837	7.41	1.70	1.66	1
2766.840	61.345	6.89	1.11		8	7147.787	158.477	6.86	1.30	0.99	1
2768.740	61.387	6.85	1.13		8	7148.863	158.501	6.90	1.35	1.05	1
						7159.797	158.743	7.22	1.69	1.51	1
2770.847	61.434	6.90	1.19		8						
2771.792	61.455	6.90	1.21		8	7178.713	159.163	7.75	1.76	1.62	1
2772.844	61.478	6.95	1.25		8	7202.696	159.694	7.21	1.63	1.38	1
2773.788	61.499	6.96	1.31		8	7205.682	159.761	7.26	1.66	1.49	1
2774.844	61.522	6.98	1.39		8	7213.718	159.939	7.44	1.76	1.65	1
						7226.699	160.227	7.72	1.67	1.42	1
2776.927	61.569	6.99	1.44		8						
2777.830	61.589	7.08	1.51		8	7229.669	160.292	7.10	1.28	0.99	1
2778.816	61.610	6.93	1.49		8	7232.663	160.359	6.78	1.12	0.84	1
2779.826	61.633	7.00	1.51		8	7233.615	160.380	6.73	1.14	0.84	1
2780.820	61.655	6.96	1.51		8	7237.618	160.469	6.89	1.28	0.99	1
						7239.608	160.513	6.94	1.35	1.08	1
2784.771	61.743	7.14	1.63		8						
2797.807	62.032	7.74	1.77		8	7451.944	165.221	7.63	1.65	1.33	1
2809.719	62.296	7.04	1.31		8	7461.933	165.442	6.86	1.27	1.01	1
2822.804	62.586	6.94	1.46		8	7469.921	165.619	7.18	1.54	1.33	1
2841.662	63.004	7.55	1.75		8	7472.872	165.685	7.19	1.60	1.45	1
						7521.818	166.770	7.37	1.66	1.53	1
2848.699	63.160	7.74	1.77		8						
2860.597	63.424	6.73	1.17		8	7541.745	167.212	7.59	1.59	1.43	1

TABLE 2  
UNCONFIRMED OBSERVATIONS

GS CAR						IU CEN						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
4534.338	1118.168	12.44	1.16		7	4572.324	1377.513	12.36	0.66			4546.263	1121.109	12.51	1.17		7										
4546.263	1121.109	12.51	1.17		7	4575.376	1378.433	12.69	0.47			4562.283	1125.059	12.46	0.98		7										
4562.283	1125.059	12.46	0.98		7	4867.487	1466.437	12.55	0.54			4567.226	1126.278	12.59	1.10		7										
4567.226	1126.278	12.59	1.10		-7	4947.283	1490.478	12.41	0.66			4886.354	1204.975	12.26	0.95		7										
4886.354	1204.975	12.26	0.95		7	4950.257	1491.374	13.04	0.57								7										
4895.390	1207.203	12.47	1.12		-7																						
4931.219	1216.039	12.52	1.08		-7																						
HS CAR						IZ CEN						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
4569.223	897.318	12.09	1.29			4567.283	775.062	12.60	1.68			4925.222	967.230	12.15	1.28		-7										
4925.222	967.230	12.15	1.28		-7											-7											
IM CAR						LV CEN						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
4569.268	856.270	11.77	1.14			4568.250	918.267	12.36	1.60			4574.230	857.199	11.66	1.19		7										
4574.230	857.199	11.66	1.19																								
4953.245	928.226	11.67	1.16																								
IO CAR						RW CMA						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
4513.355	331.718	11.17	1.35			6854.018	1196.287	10.81	1.14			4529.393	332.897	11.22	1.34		2										
4529.393	332.897	11.22	1.34			6856.992	1196.806	11.38	1.38			4530.392	332.970	11.15	1.21		2										
4530.392	332.970	11.15	1.21			6858.999	1197.156	10.95	1.21			4572.247	336.046	11.03	1.34		2										
4572.247	336.046	11.03	1.34																								
5165.489	379.648	10.93	1.17	0.88	-5																						
WW CMA						WW CMA						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
5167.472	379.794	10.95	1.14	0.76	-5	5166.302	895.994	9.23	0.62	0.35	5	5167.307	896.168	9.57	0.64	0.37	5										
5185.535	381.121	10.65	1.16	0.80	-5	5169.306	896.515	9.19	0.61	0.35	5	5186.502	381.192	10.76	1.16	0.95	5										
5186.502	381.192	10.76	1.16	0.95	-5	5176.281	897.725	9.28	0.61	0.34	5	5223.350	383.901	11.18	1.25	0.95	6										
5223.350	383.901	11.18	1.25	0.95	6	5177.269	897.896	9.41	0.62	0.36	5	5242.424	385.302	10.61	1.25	0.95	-5										
5244.432	385.450	10.68	1.23	1.01	-5	5195.275	901.019	9.39	0.62	0.35	5	5201.258	902.057	9.31	0.61	0.32	5										
5276.192	387.784	11.21	1.27	0.97	6	5209.256	903.444	9.23	0.62	0.34	5	5238.223	908.467	9.24	0.60	0.34	5										
						5239.212	908.639	9.30	0.61	0.33	5																
AW CAS						BE CRA						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
7196.847	1682.163	12.97	1.00	1.12	1	5242.214	909.160	9.19	0.63	0.33	5	5256.202	911.586	9.17	0.63	0.33	5										
BD CAS						BD CAS						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
7184.845	1967.755	11.11	1.37	0.87	1	4574.532	1371.057	13.31	0.26			7220.779	1977.597	11.22	1.40	0.91	1	7263.660	1989.341	11.08	1.39	0.87	1				
QT CRA						QT CRA						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
BV CAS						BV CAS						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
7196.858	1332.840	12.84	0.63	0.06	1	4567.542	57.711	12.27	1.12			4572.467	57.773	12.26	1.14		7										
						4577.508	57.837	12.25	1.16			4919.610	62.160	12.35	1.19		7										
						4952.403	62.574	12.32	1.07																		
IU CEN						IU CEN						CONT.															
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF										
4569.357	1376.619	12.50	0.78		7	4979.383	62.915	12.24	1.13			4989.258	63.040	12.35	1.13		-7										
						5328.276	67.323	12.26	1.07			5331.285	67.361	12.24	1.08		7										

TABLE 2 (continued)

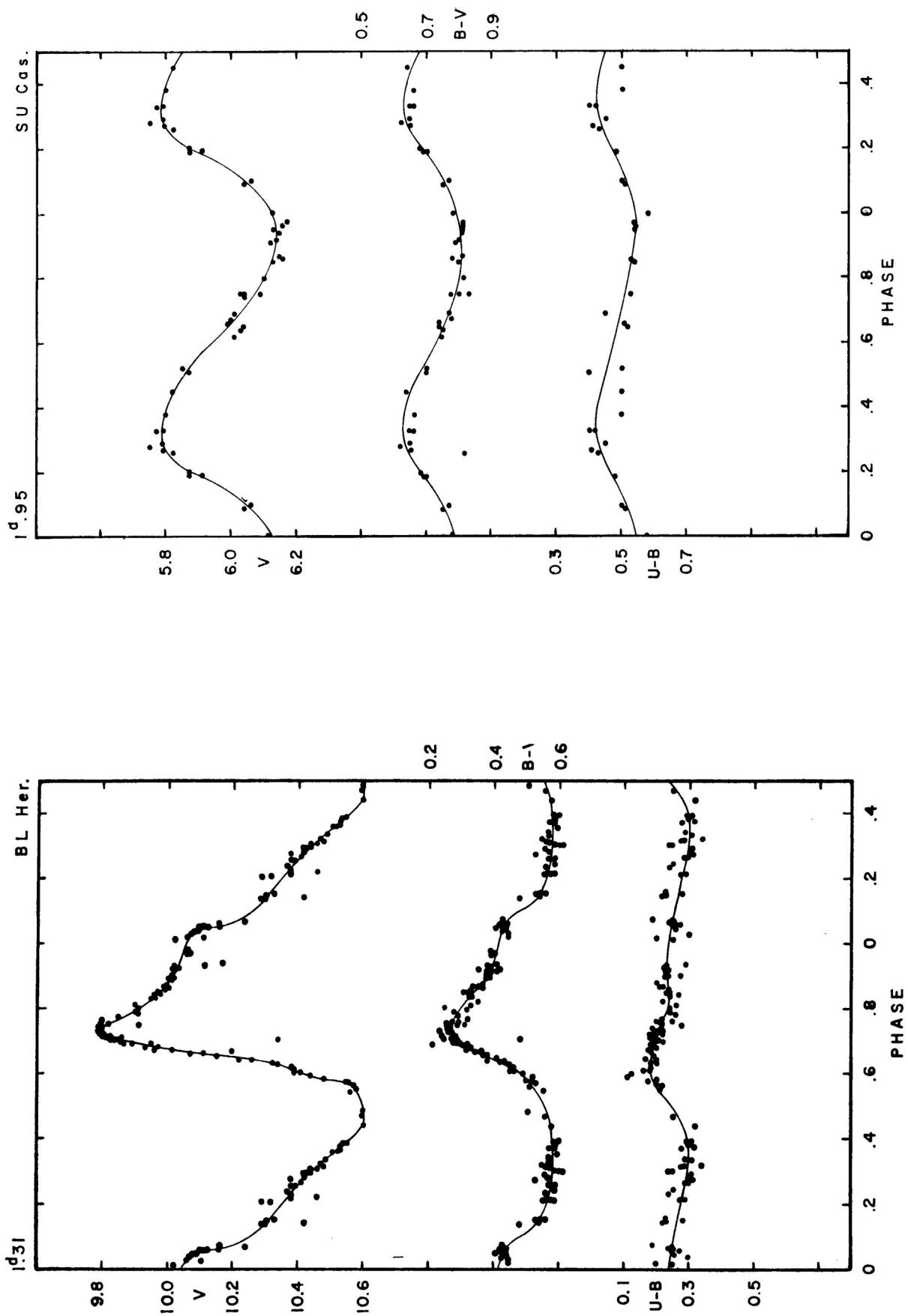
EZ CYG						GZ NOR					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4989.382	427.906	10.73	1.29		-7	4565.463	127.023	12.87	1.15		7
						4567.465	127.079	13.06	1.14		-7
						4568.345	127.103	13.14	1.22		-7
	EK DEL					4921.472	136.928	12.88	1.19		-7
						4925.442	137.039	13.05	1.28		-7
J.D.	CYCLES	V	B-V	U-B	RF						
5343.372	2610.719	11.90	0.29		7						
						446 SCO					
DX GEM						J.D.	CYCLES	V	B-V	U-B	RF
J.D.	CYCLES	V	B-V	U-B	RF	4576.429	159.937	13.26	1.15		-7
						4578.438	160.007	13.05	0.69		-7
						4579.435	160.042	12.51	0.79		7
4812.293	1534.596	10.90	1.09		7	4953.395	173.111	12.74	0.78		-7
5555.309	1771.537	10.79	1.07		7	4980.316	174.052	12.46	0.77		-7
5567.279	1775.354	10.65	0.99		-7						
5568.279	1775.673	10.92	1.02		7	507 SCO					
AL LYR						J.D.	CYCLES	V	B-V	U-B	RF
J.D.	CYCLES	V	B-V	U-B	RF	4568.555	387.202	13.13	0.88		7
5343.297	411.548	11.76	1.11		-7	4569.475	387.280	13.12	0.76		7
7232.645	557.069	12.31	1.35	1.34	1	4570.382	387.357	12.95	1.00		7
EN LYR						549 SCO					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
7232.636	3058.766	12.20	0.51	0.01	1	4578.418	276.642	13.81	0.63		7
						5308.399	320.749	13.70	0.78		7
	BV MON					5309.323	320.805	13.51	0.85		7
						5310.274	320.863	13.45	0.99		7
J.D.	CYCLES	V	B-V	U-B	RF						
						377 SGR					
4812.321	1596.497	11.26	1.11		7	J.D.	CYCLES	V	B-V	U-B	RF
5547.384	1840.356	11.07	1.00		7	7143.799	441.159	12.30	1.31	1.42	1
5555.339	1842.995	11.64	1.19		7	7159.715	442.142	12.92	1.06	0.51	1
	CS MON					7226.608	446.273	13.07	1.05	0.74	1
J.D.	CYCLES	V	B-V	U-B	RF						
						383 SGR					
4812.279	720.322	10.90	1.22		7	J.D.	CYCLES	V	B-V	U-B	RF
5547.274	830.340	10.98	1.36		7	4572.544	277.899	12.28	0.62		7
5555.273	831.537	11.26	1.35		7	4573.546	277.960	12.17	0.69		7
5568.266	833.482	11.17	1.32		7	4574.512	278.018	12.22	0.67		7
	EK MON					4575.552	278.081	12.27	0.75		7
J.D.	CYCLES	V	B-V	U-B	RF						
						532 SGR					
5547.371	1401.655	11.17	1.37		7	J.D.	CYCLES	V	B-V	U-B	RF
5568.312	1406.946	11.28	1.34		7	4578.468	133.940	13.23	1.16		7
5573.293	1408.205	10.77	1.11		7	4980.336	145.696	12.90	1.45		-7
	GR NOR					5302.367	155.117	12.81	1.18		7
J.D.	CYCLES	V	B-V	U-B	RF						
						5331.268	155.963	13.16	1.28		-7
4567.422	2330.365	12.38	1.27		-7						
4569.428	2331.388	12.30	1.30		7	995 SGR					
4577.443	2335.478	12.44	1.19		-7	J.D.	CYCLES	V	B-V	U-B	RF
4922.485	2511.523	12.36	1.22		7	7083.848	223.423	12.50	0.78	0.42	1
4979.335	2540.529	12.38	1.19		7						

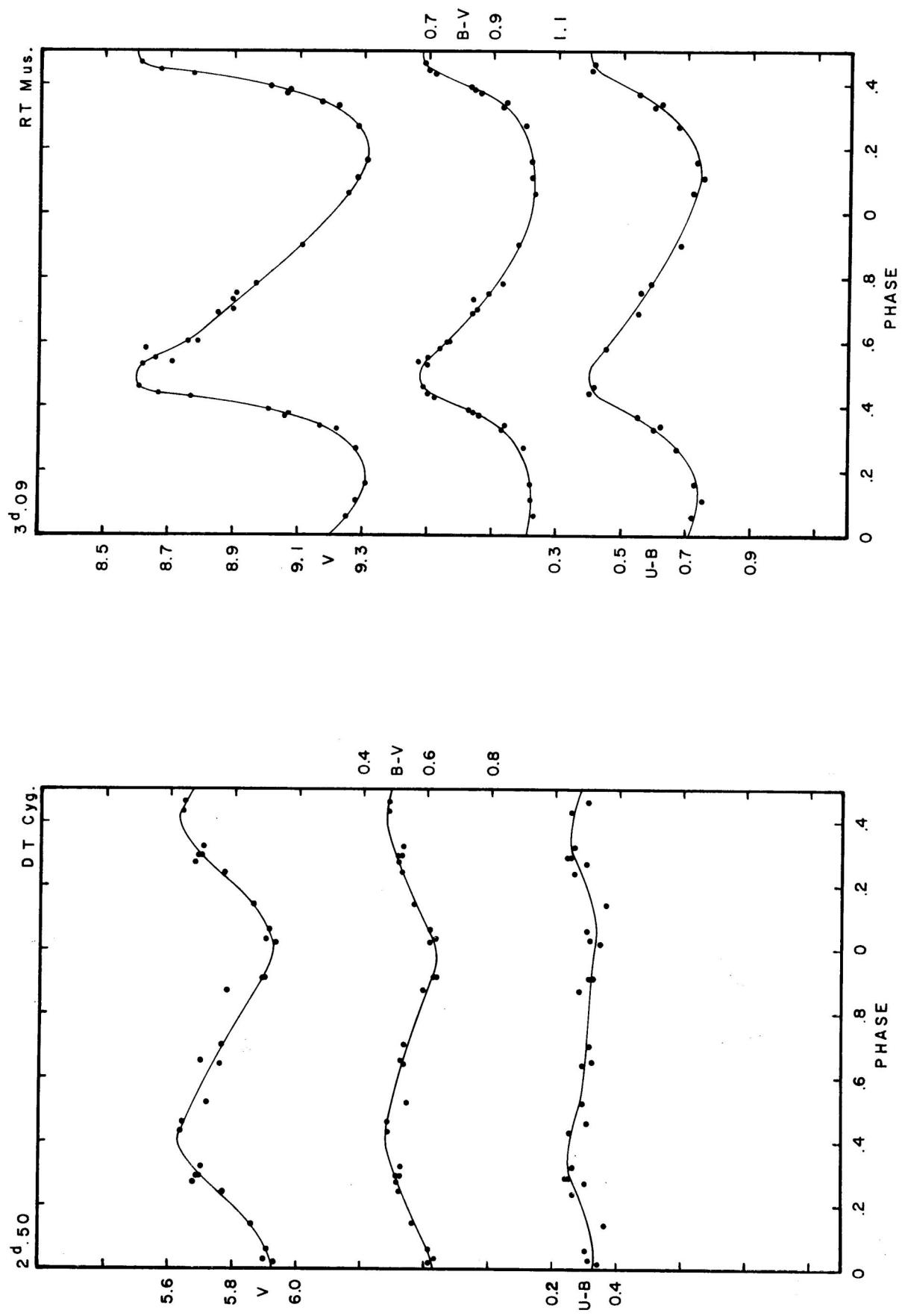
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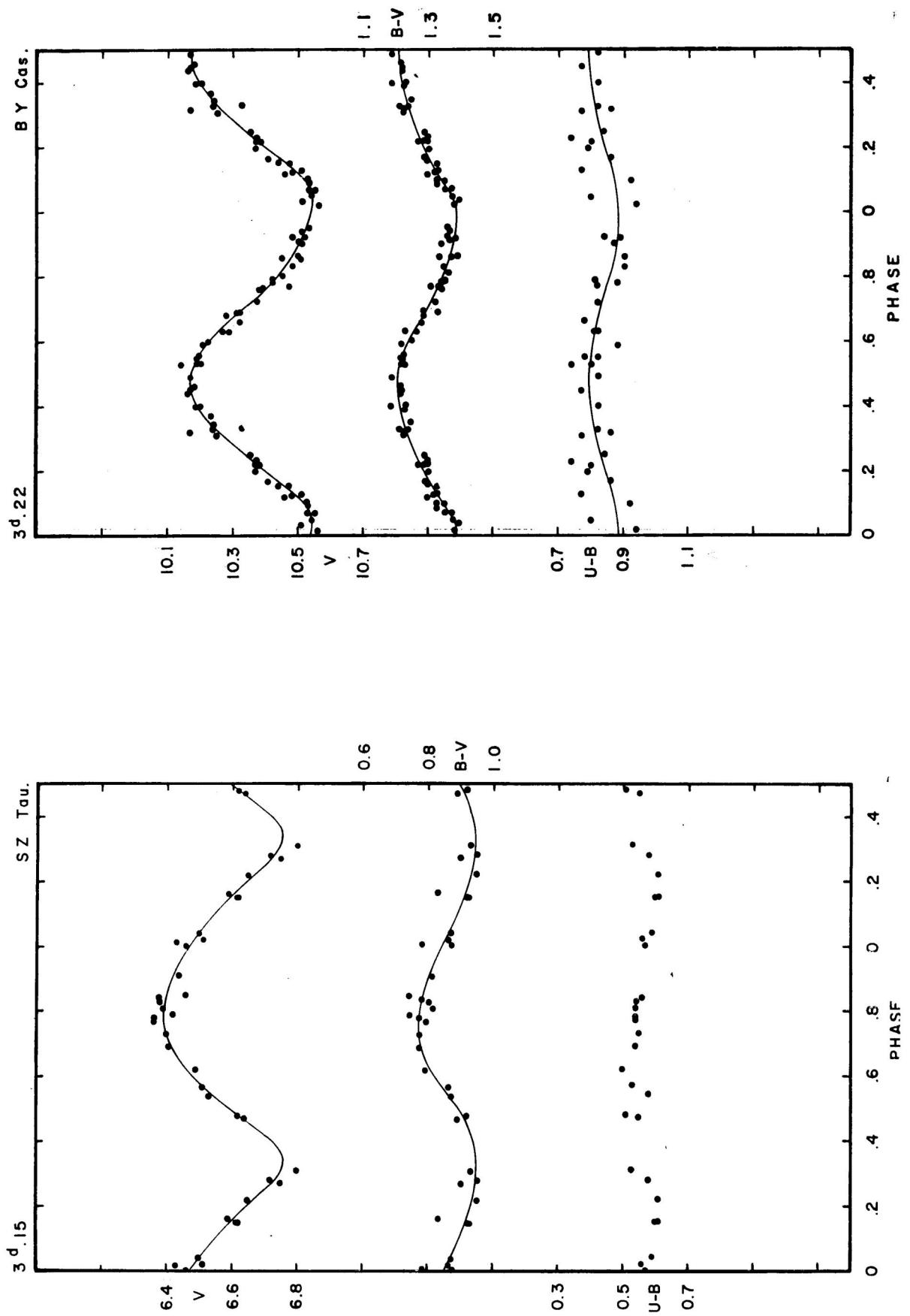
1077 SGR						CY VEL					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4568.555	340.206	12.52	0.49		7	4513.267	231.109	12.60	1.12		7
						4531.234	232.030	12.93	1.16		7
	RT TRA					4532.268	232.082	12.64	1.14		7
						4533.281	232.134	12.57	1.01		7
						4534.259	232.184	12.33	1.19		7
J.D.	CYCLES	V	B-V	U-B	RF						
5304.235	2725.572	9.59	0.78	0.55	6						
5306.289	2726.627	9.72	0.85	0.66	6	4885.318	250.161	12.75	0.99		7
5309.270	2728.159	9.88	0.75	0.55	6	4886.274	250.210	12.59	1.06		7
5311.284	2729.194	9.79	0.68	0.45	6	4925.203	252.203	12.39	1.20		-7
						5275.262	270.129	12.60	1.51		-7
	CP VEL										
						EZ VEL					
J.D.	CYCLES	V	B-V	U-B	RF	J.D.	CYCLES	V	B-V	U-B	RF
4517.258	459.029	12.64	1.68		7	4531.279	131.210	12.06	1.54		7
4536.232	460.957	12.84	1.43		7	4532.292	131.239	11.91	1.48		7
4812.429	489.023	12.70	1.50		-7	4533.309	131.269	11.89	1.51		7
4920.222	499.977	12.58	1.62		-7	4534.289	131.297	11.95	1.47		7
4921.198	500.076	12.68	1.56		-7	4535.270	131.325	11.97	1.59		7

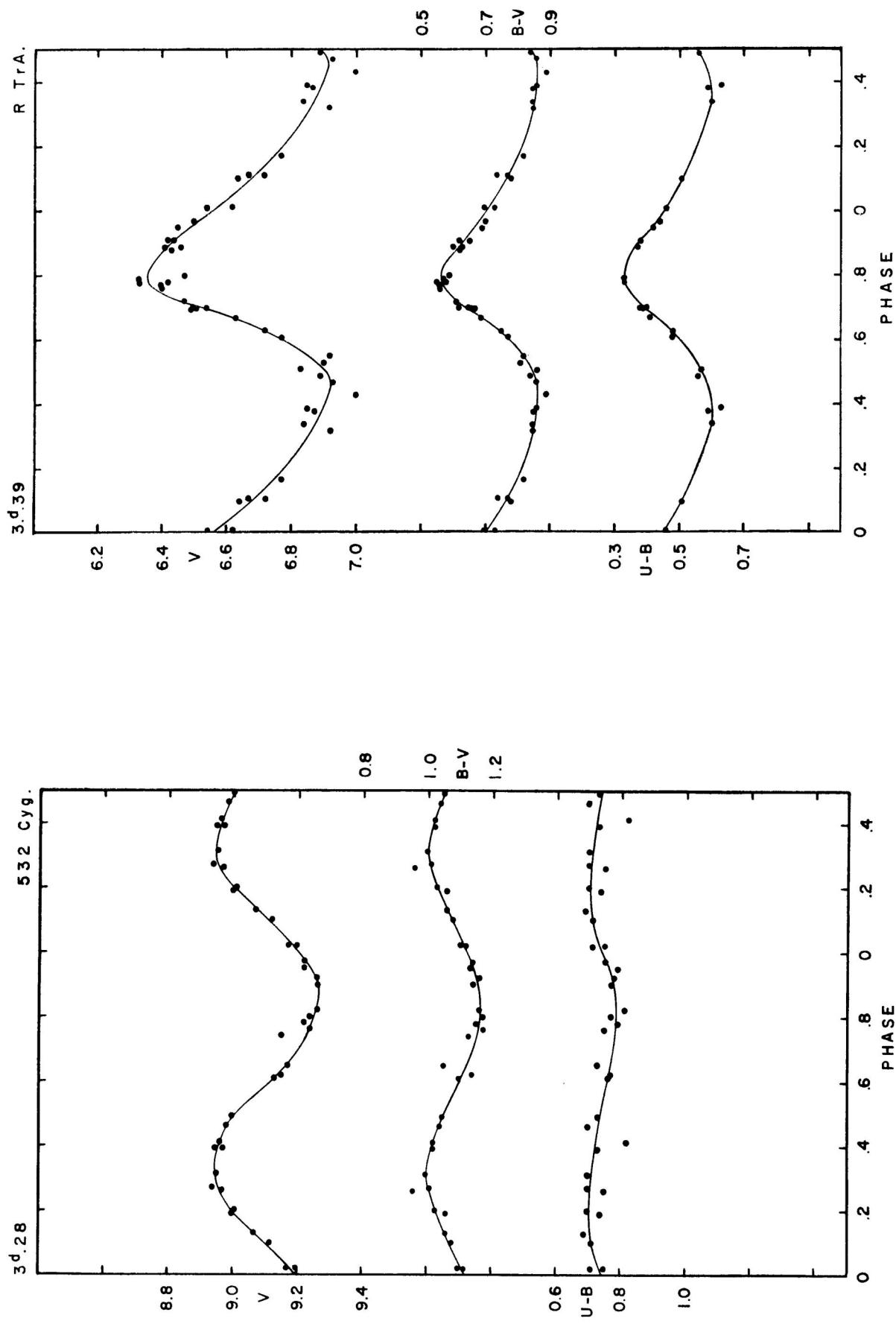
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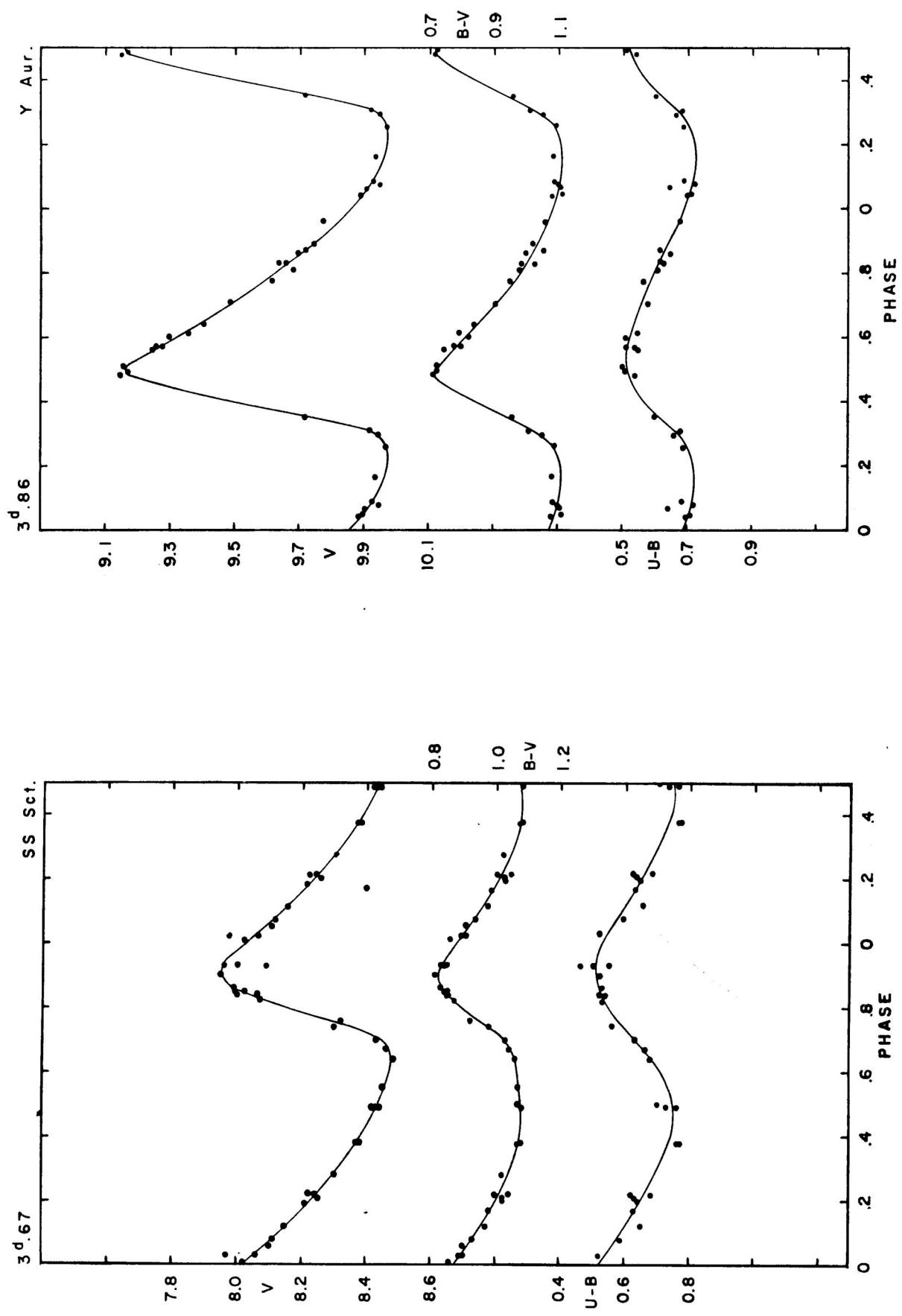
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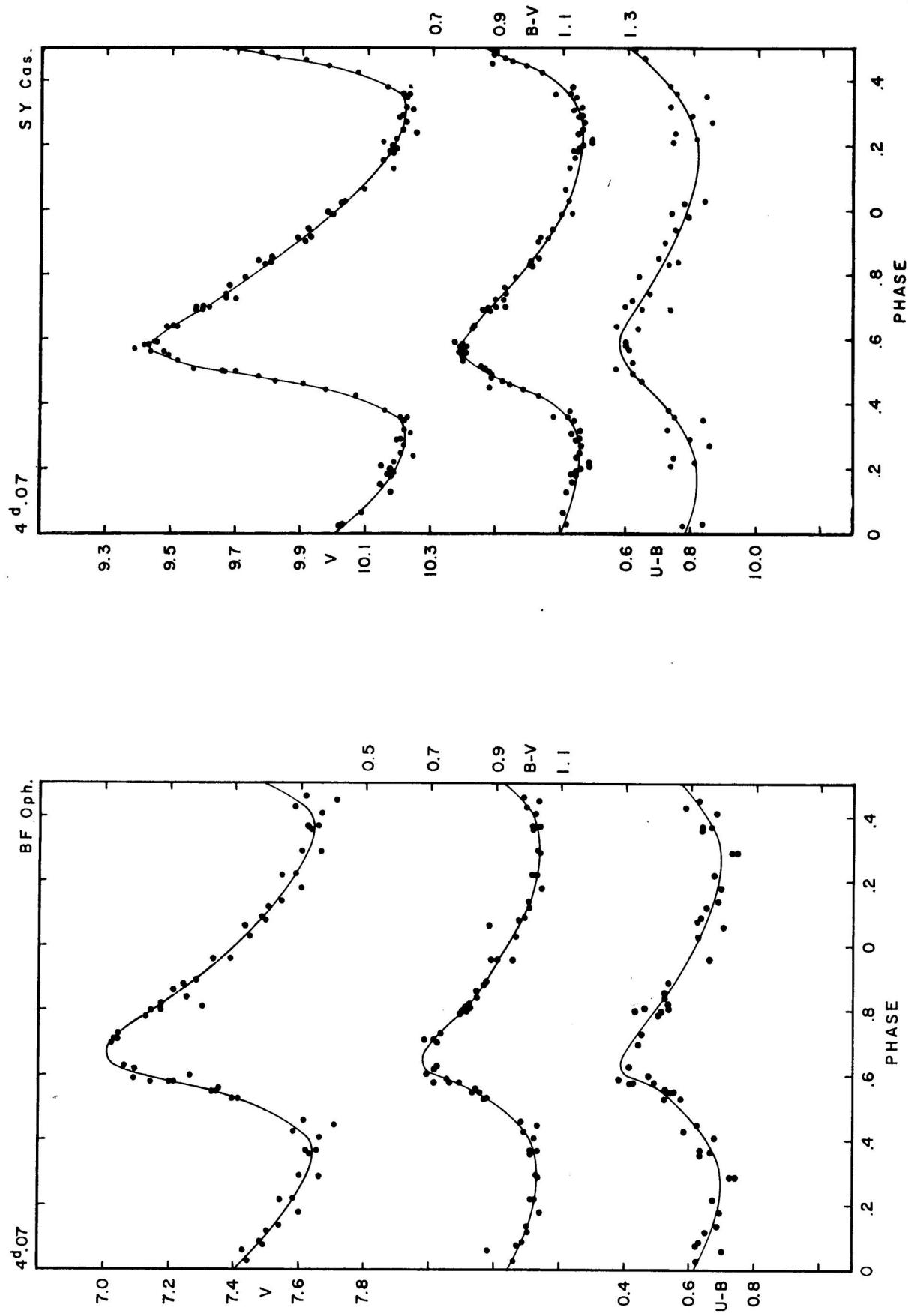


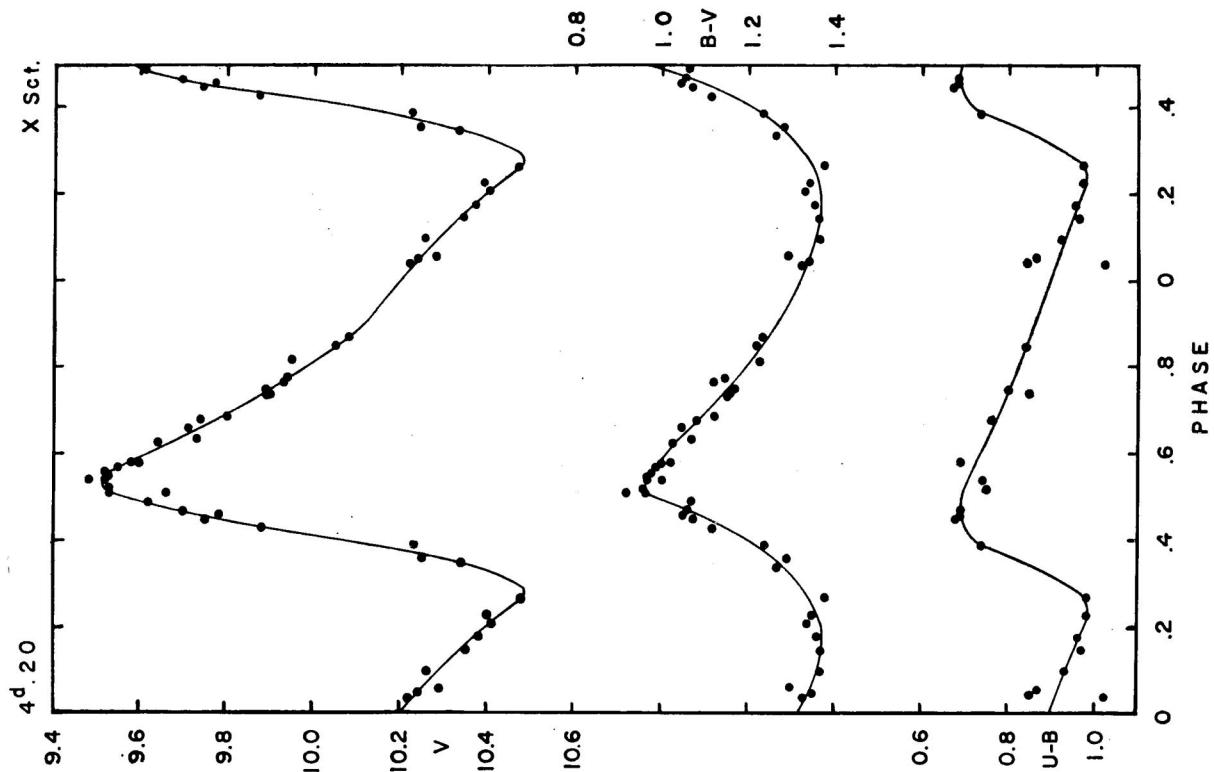
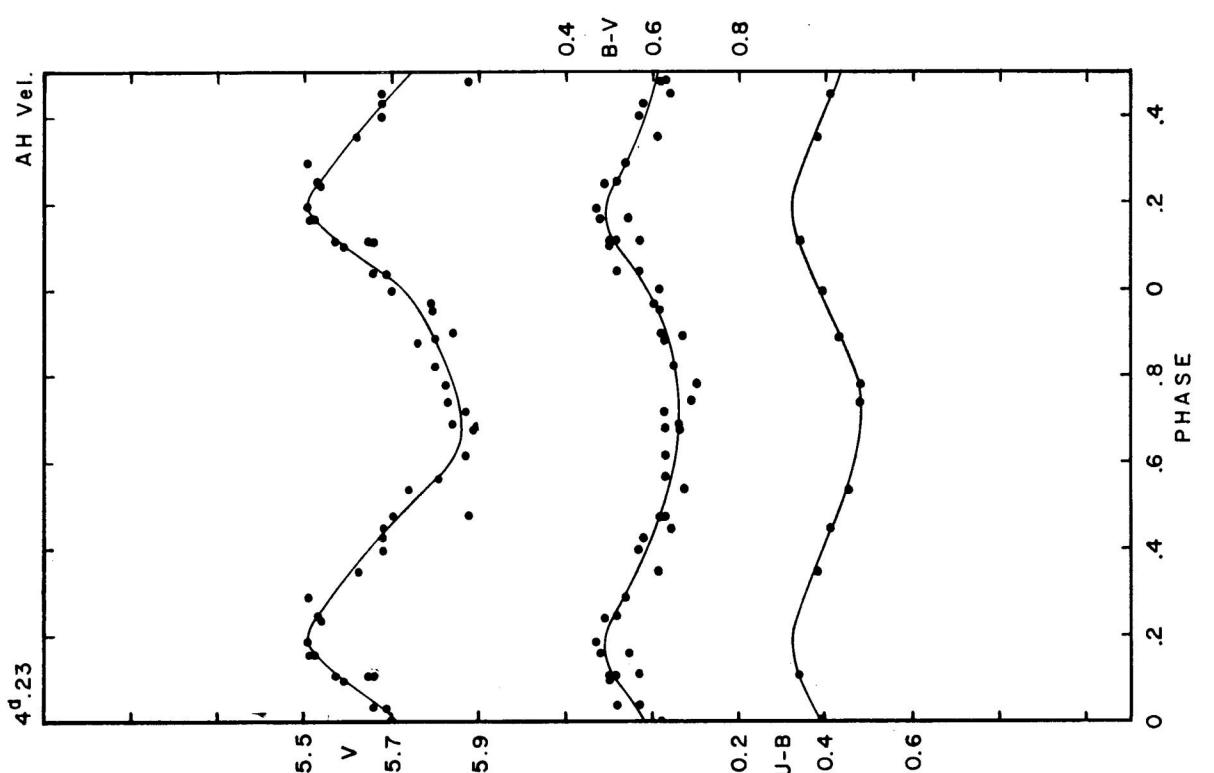


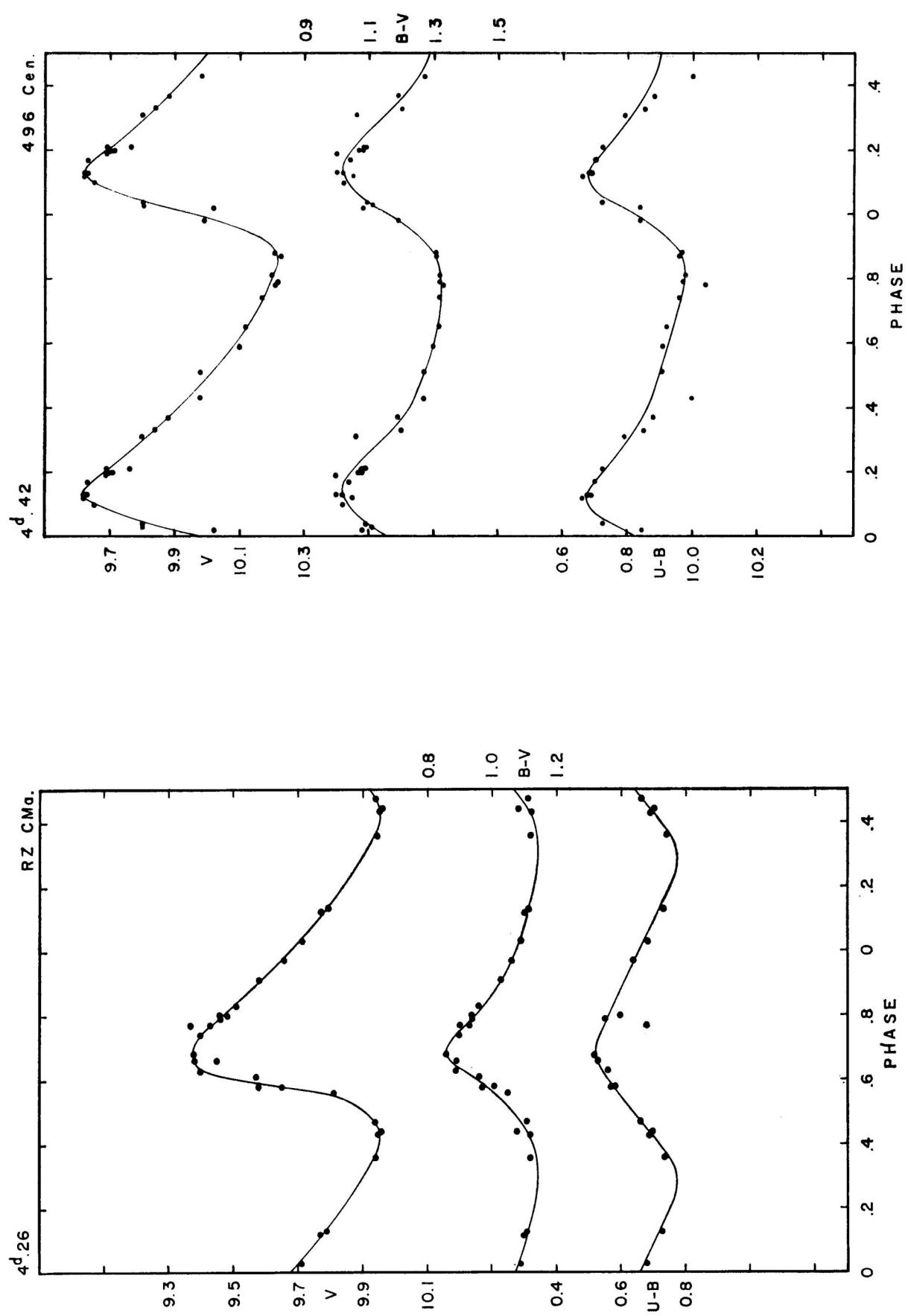


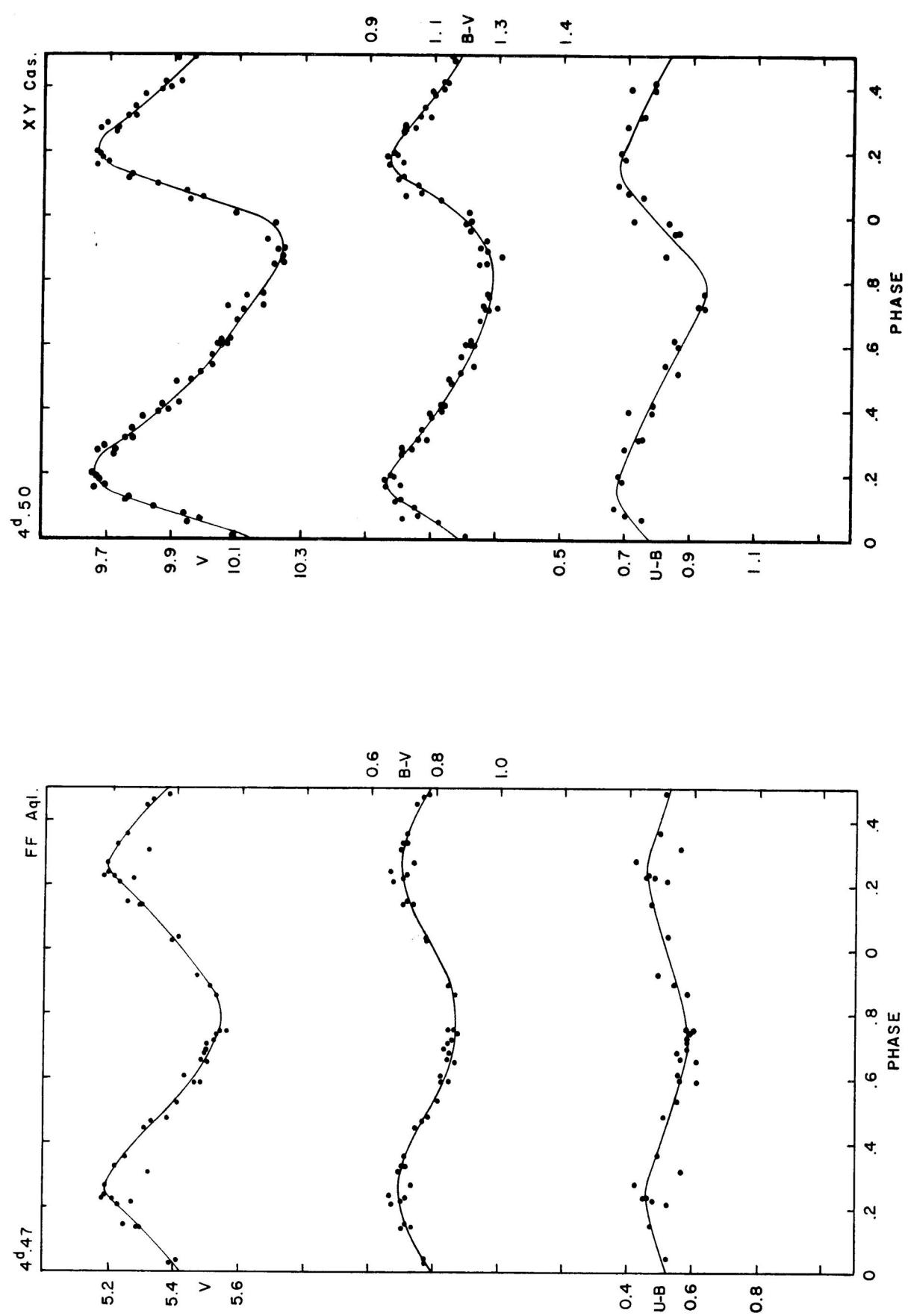


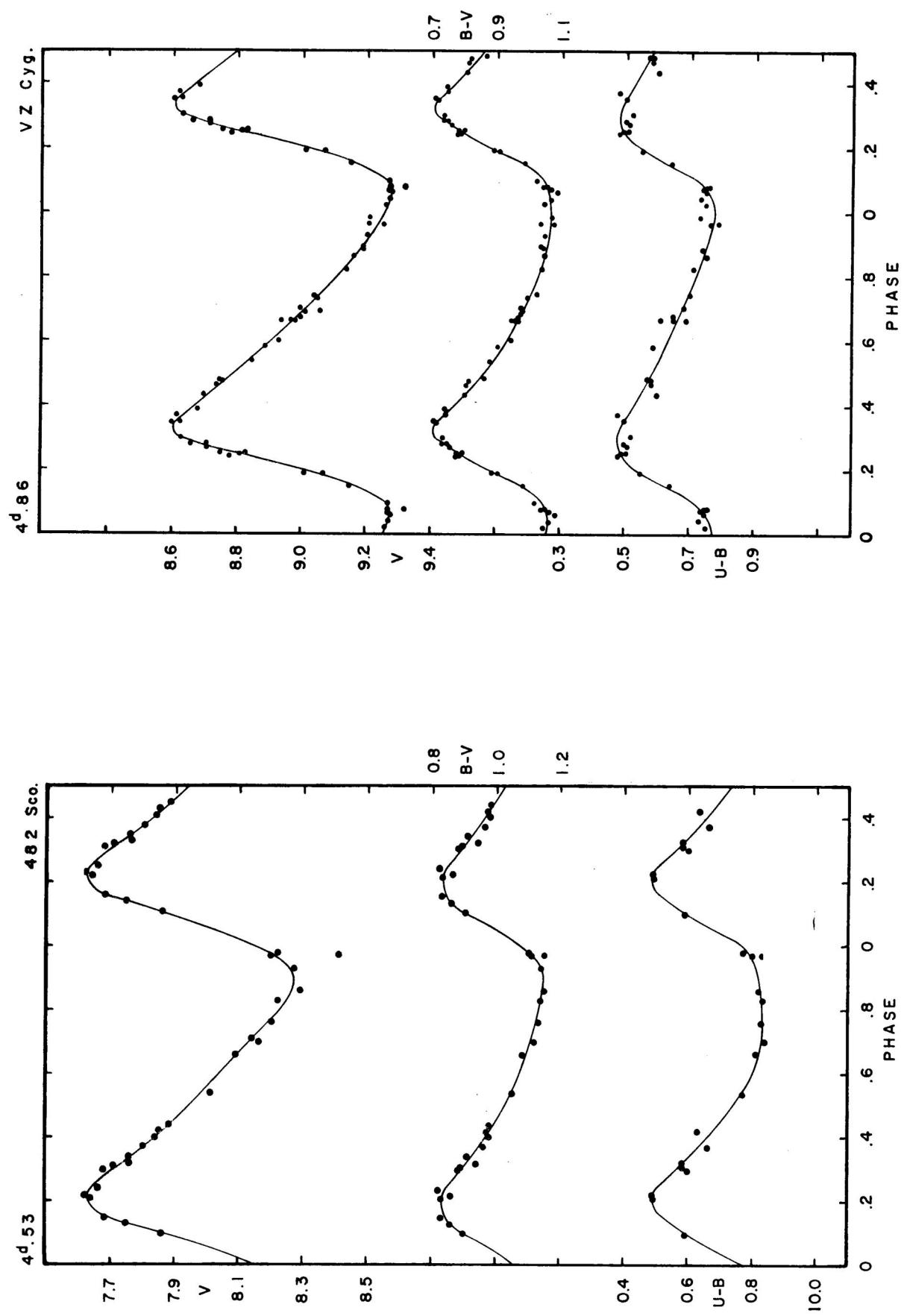


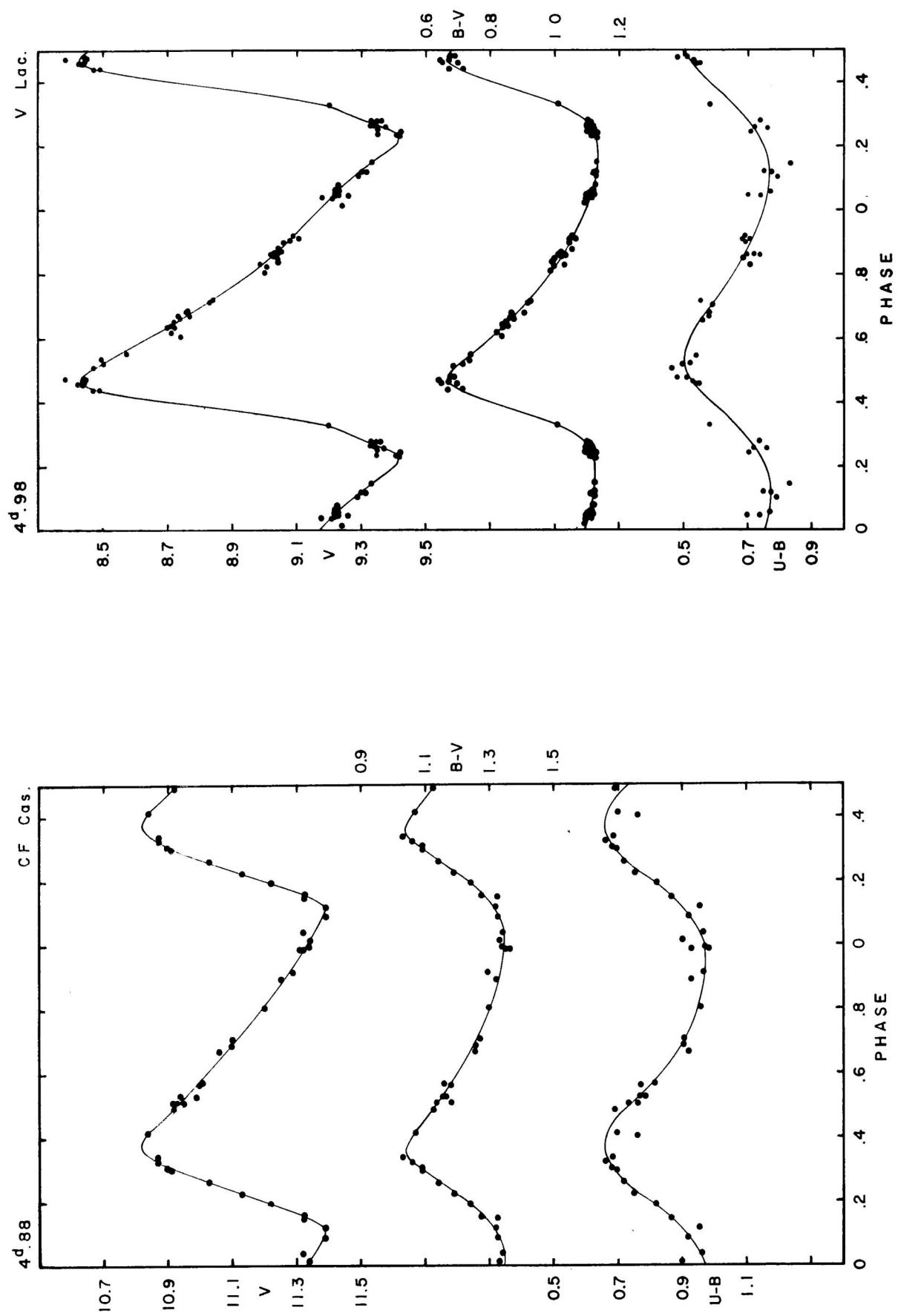


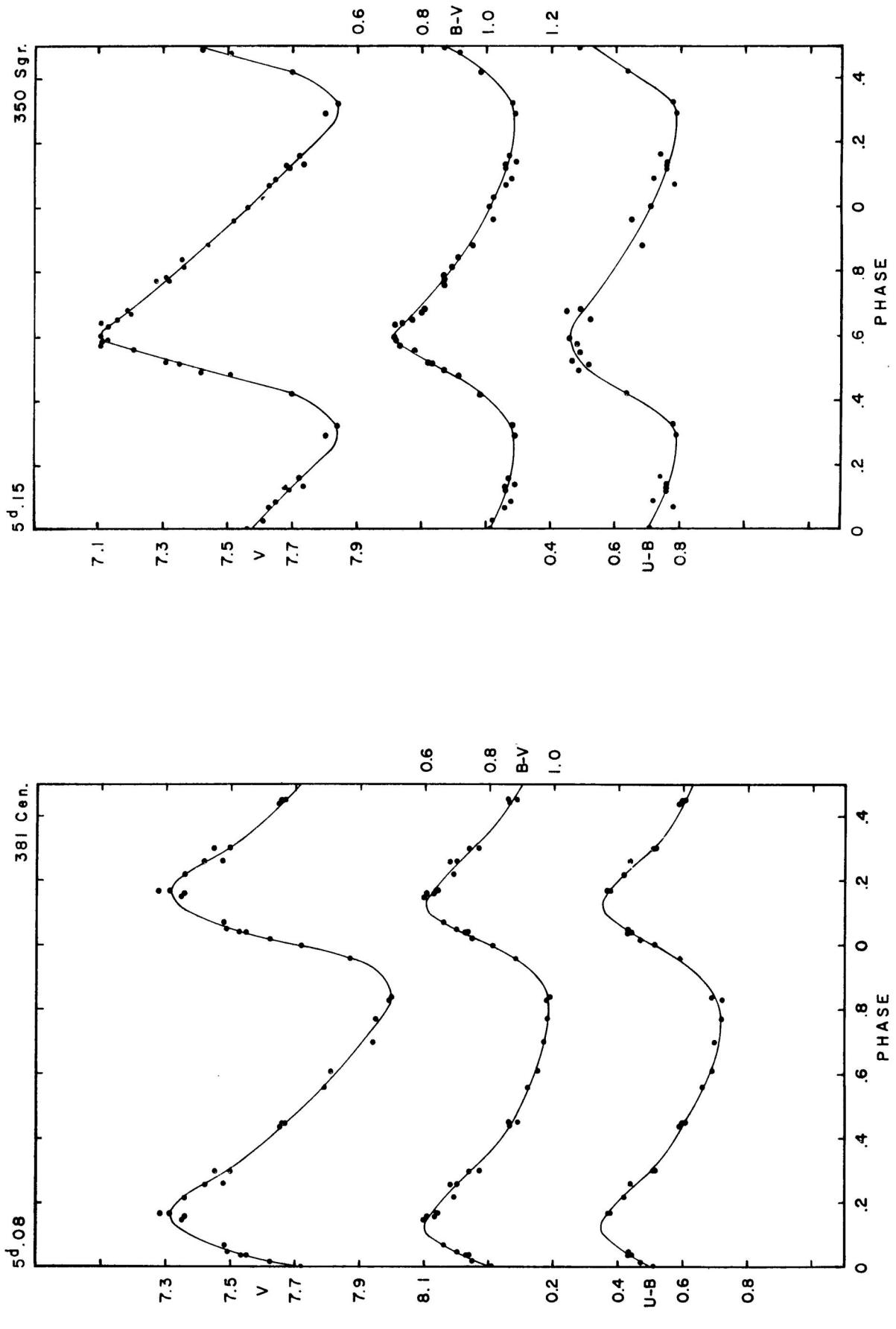


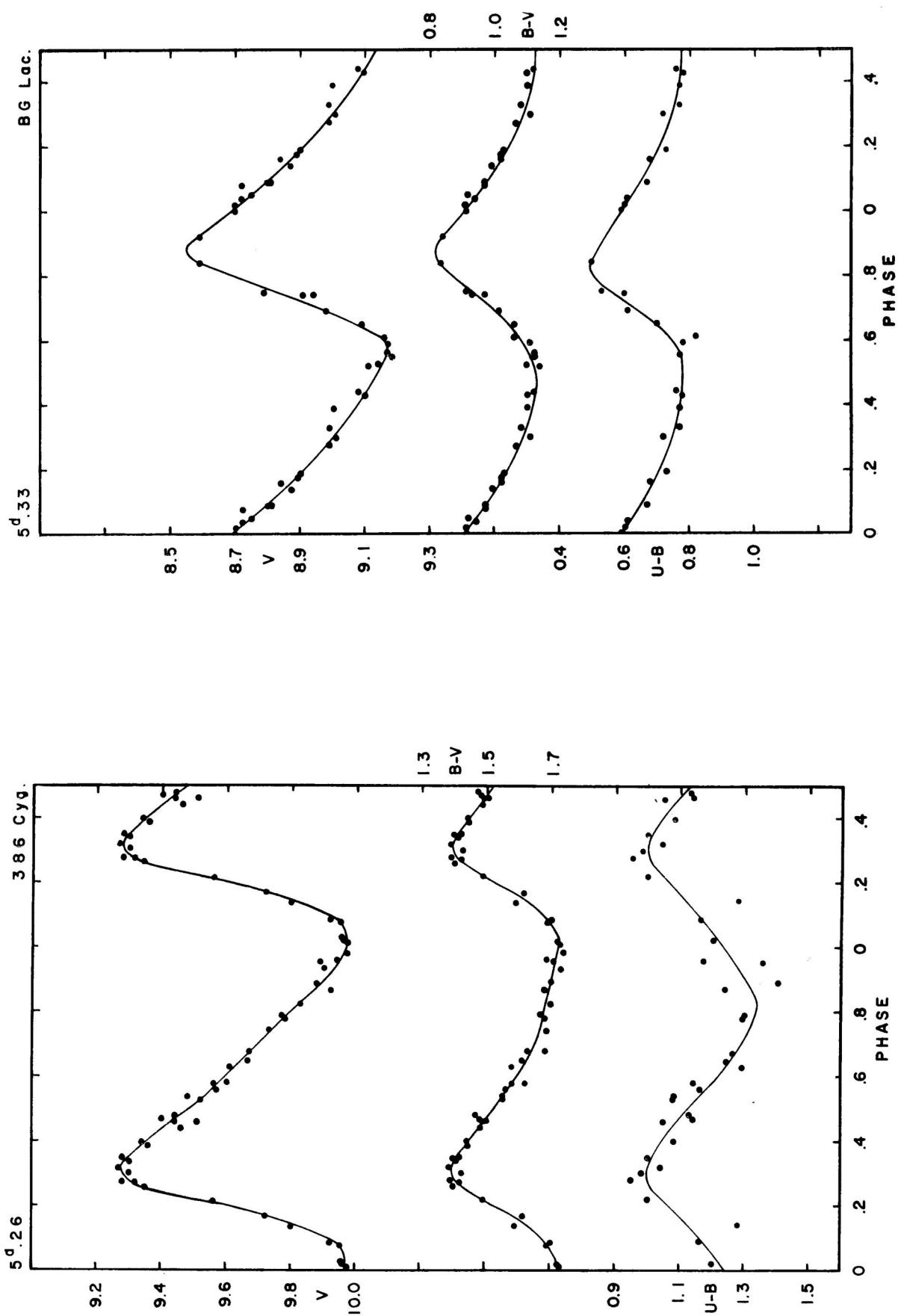


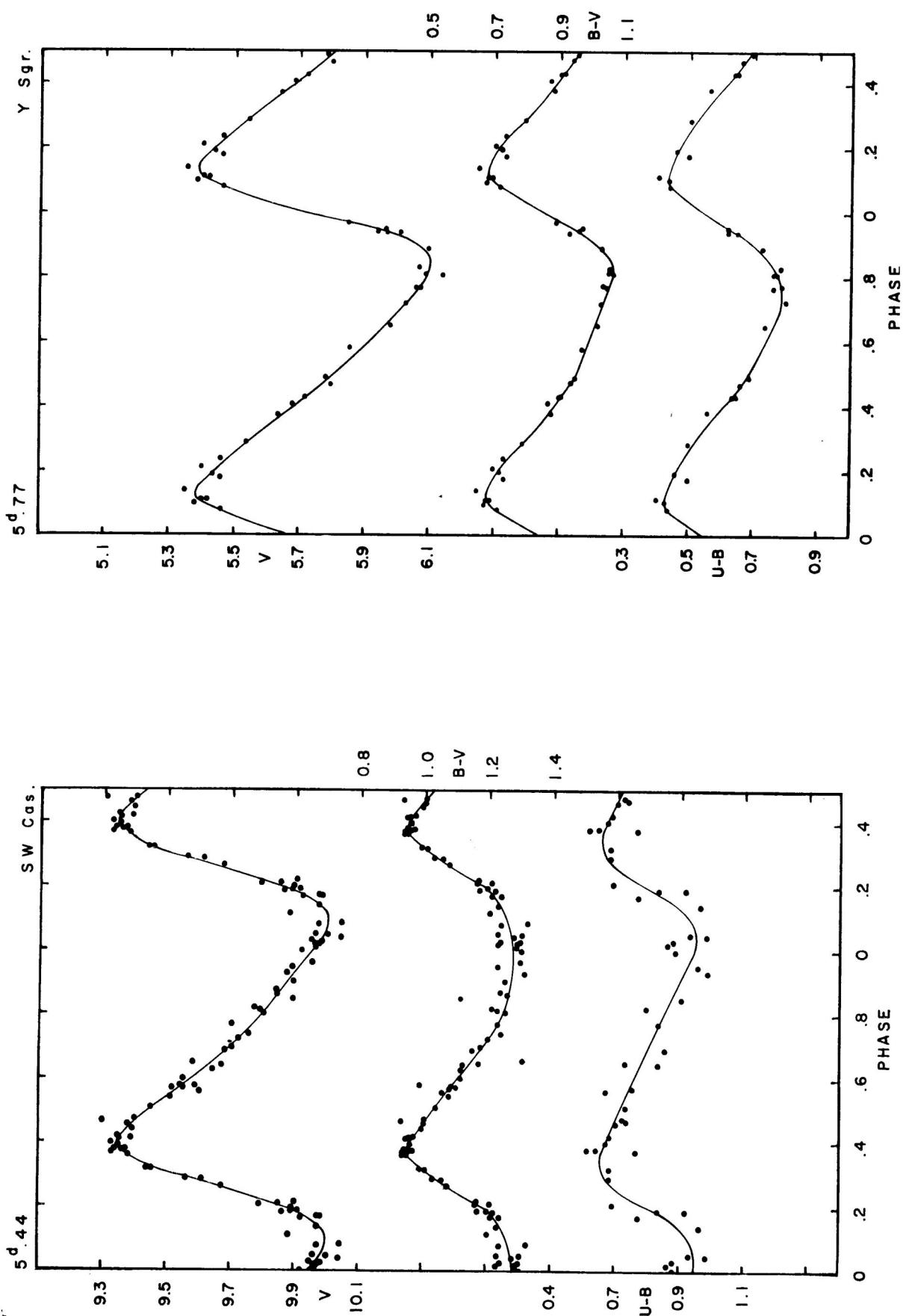


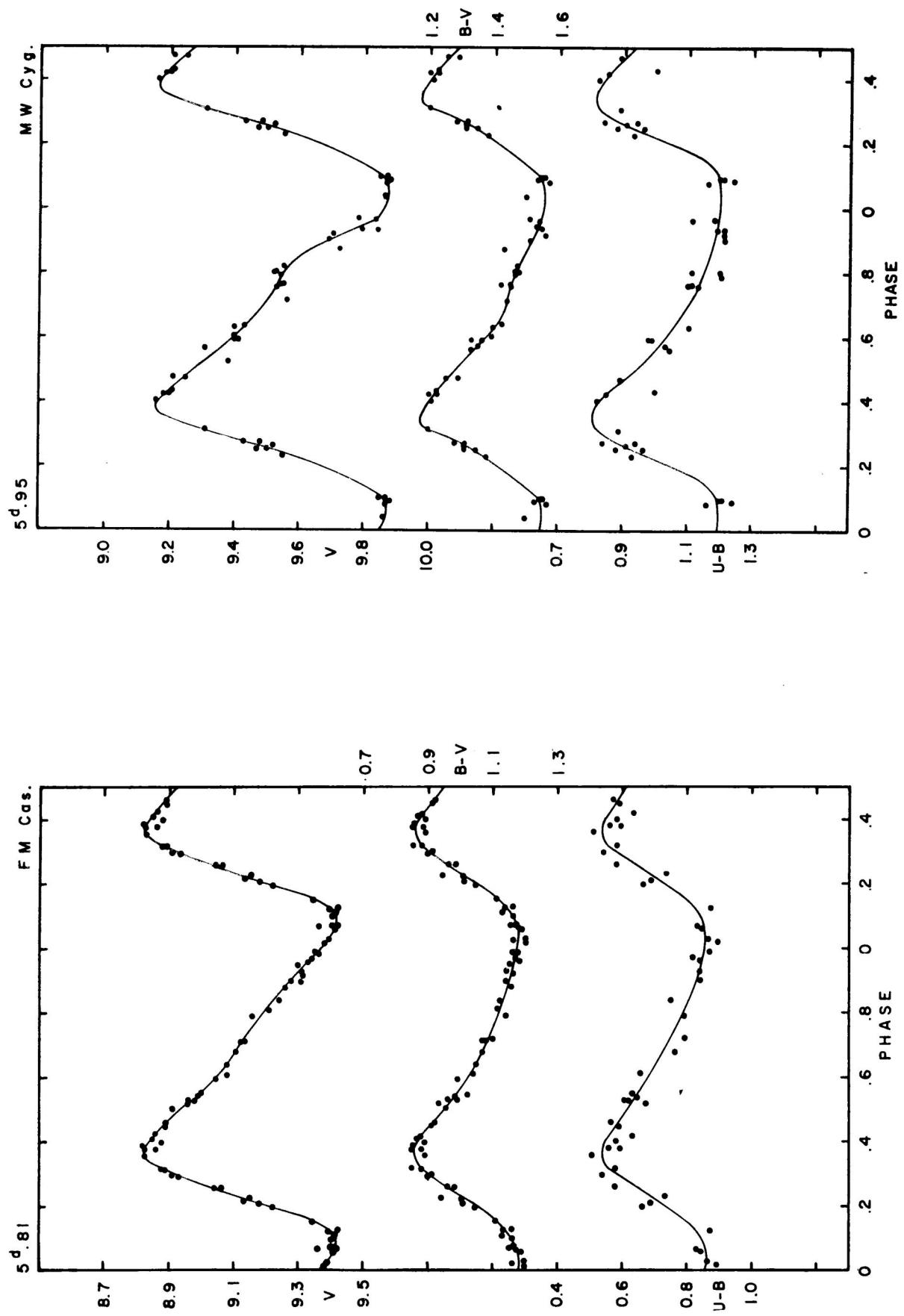


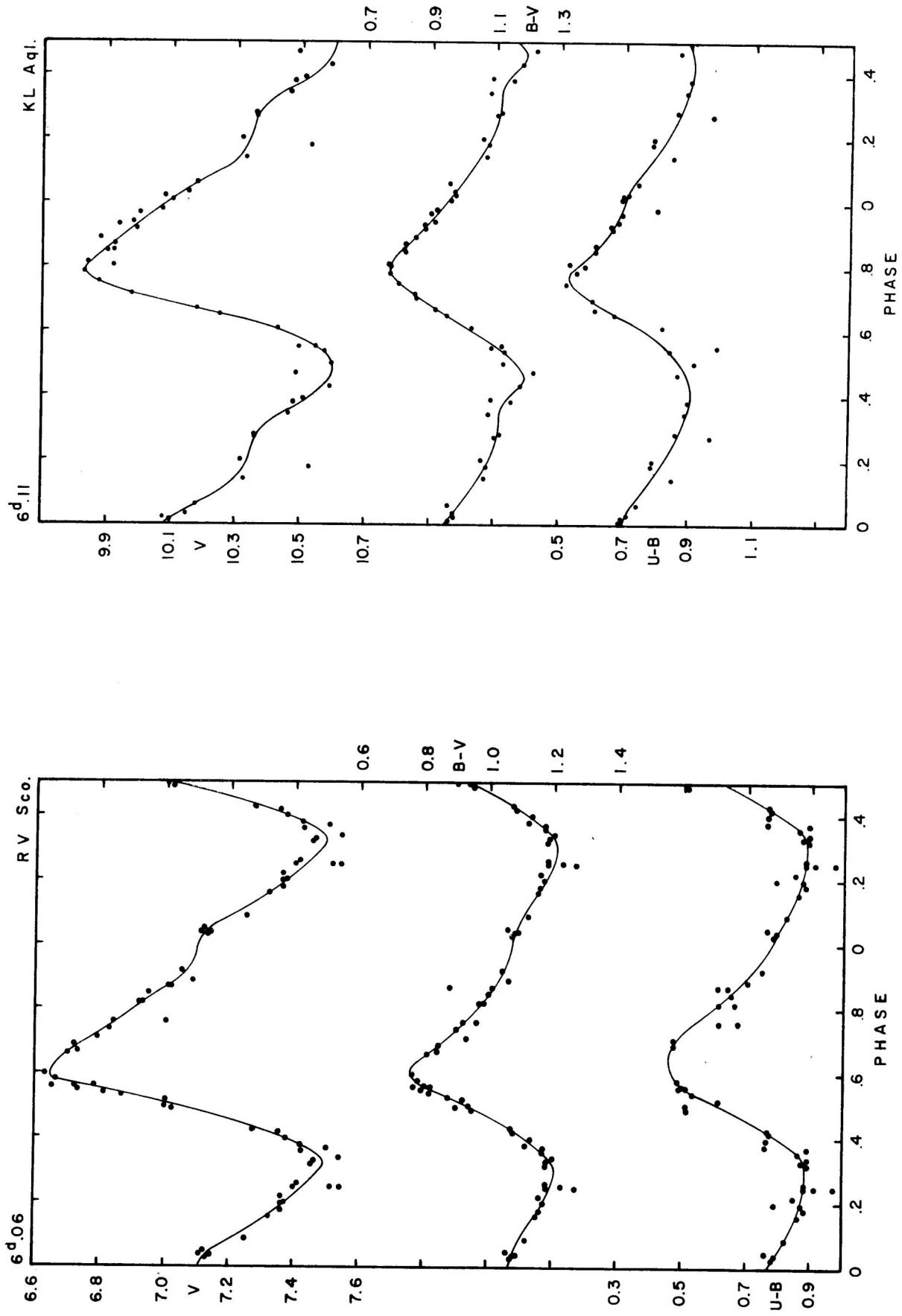


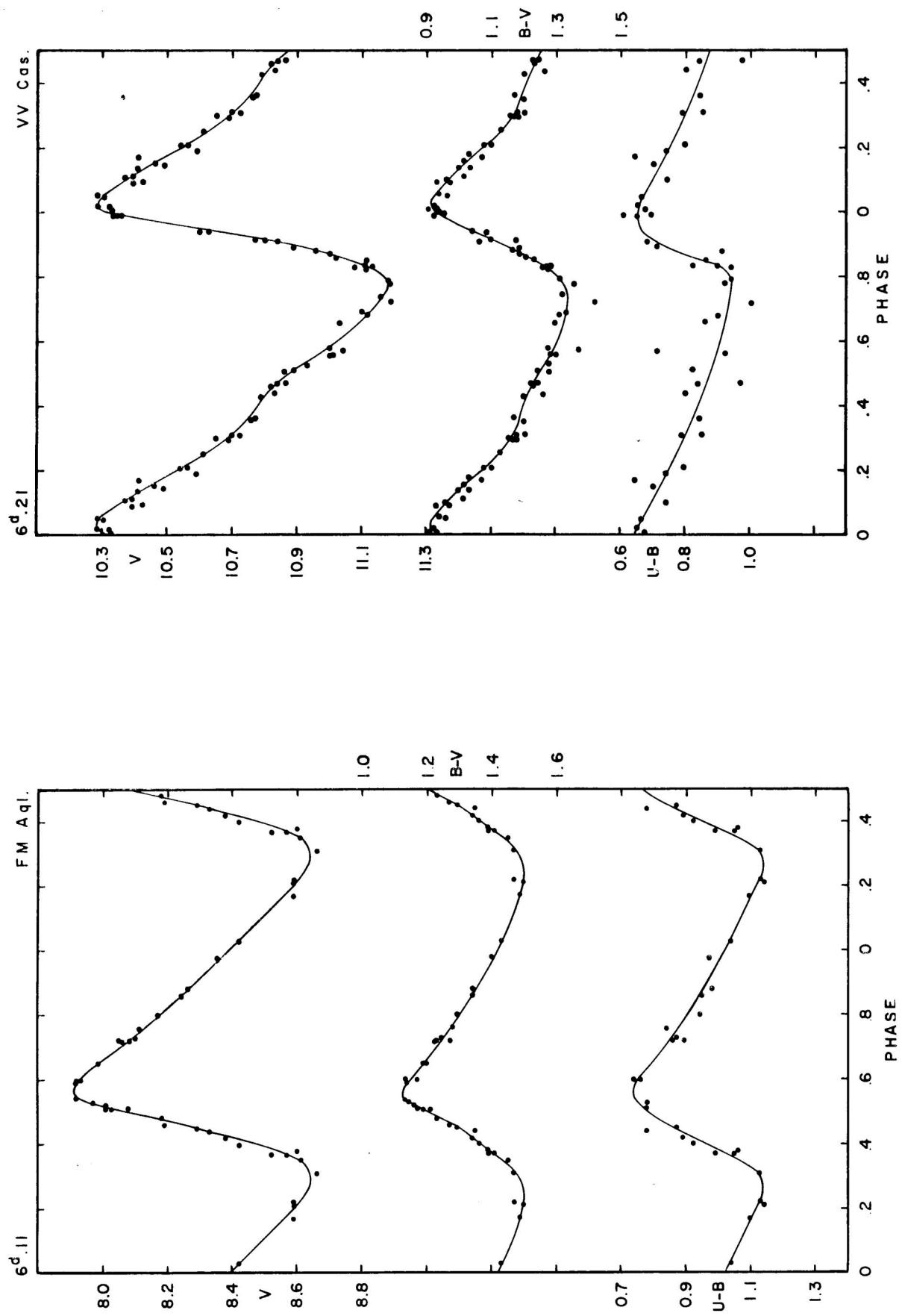


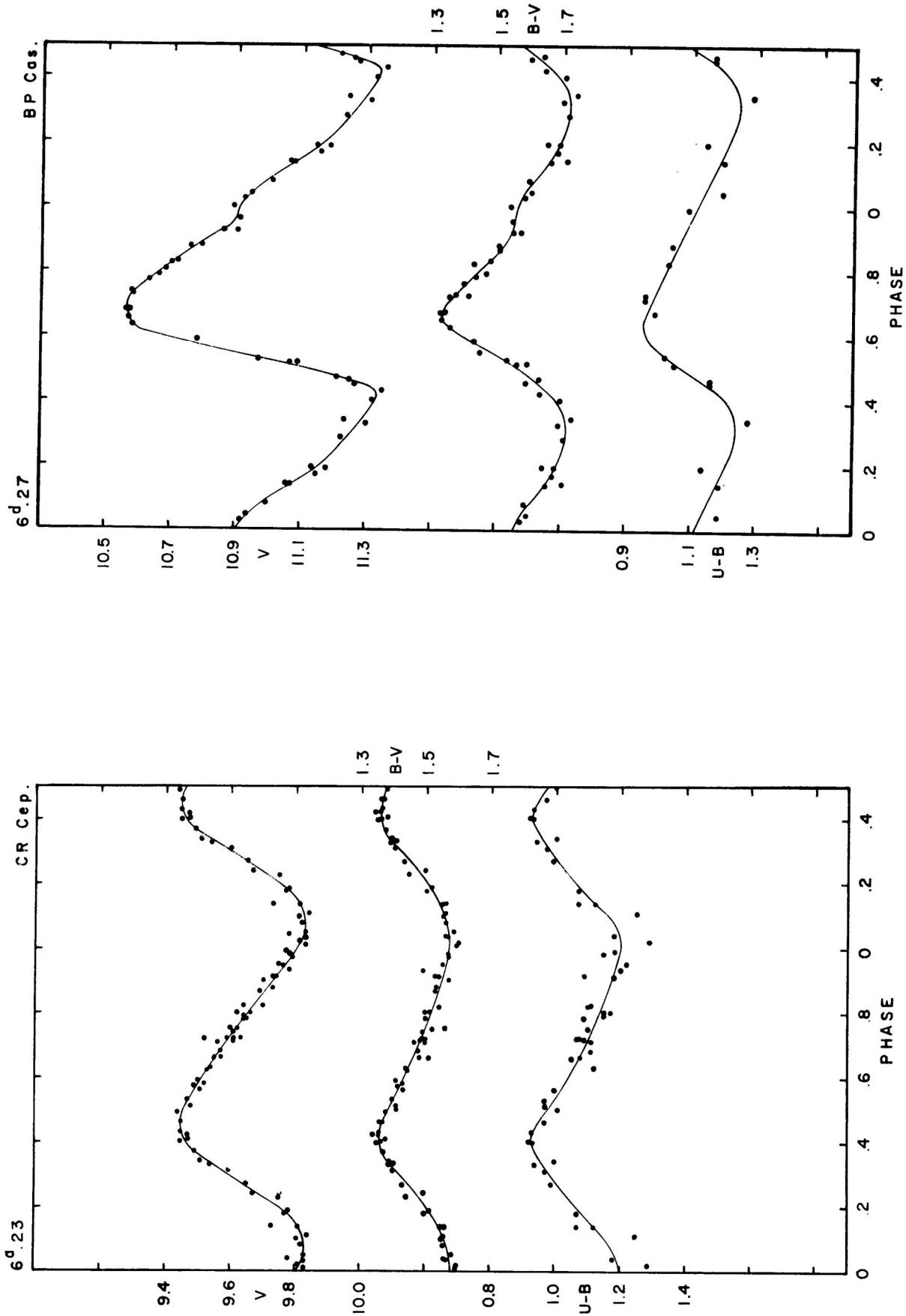


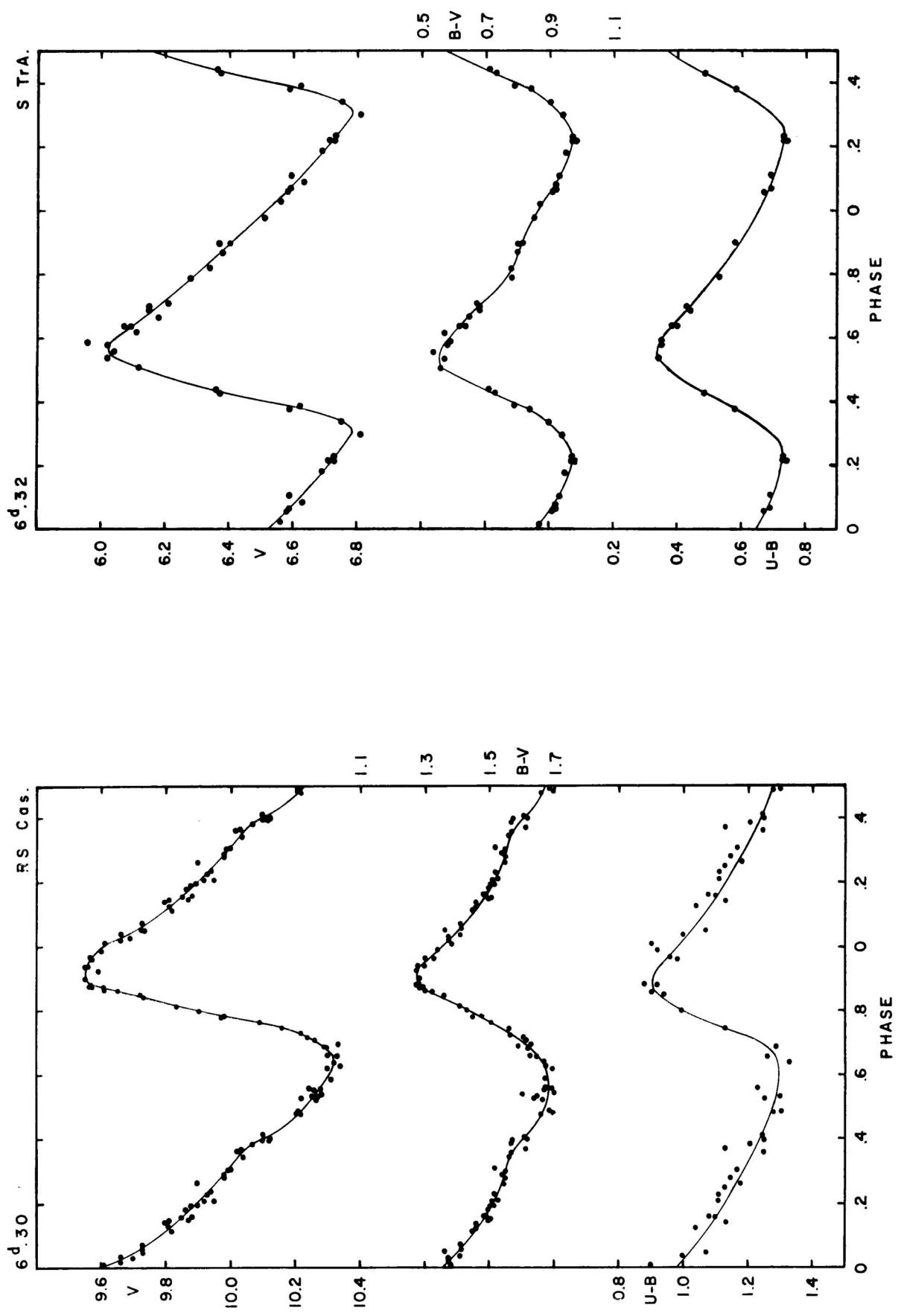


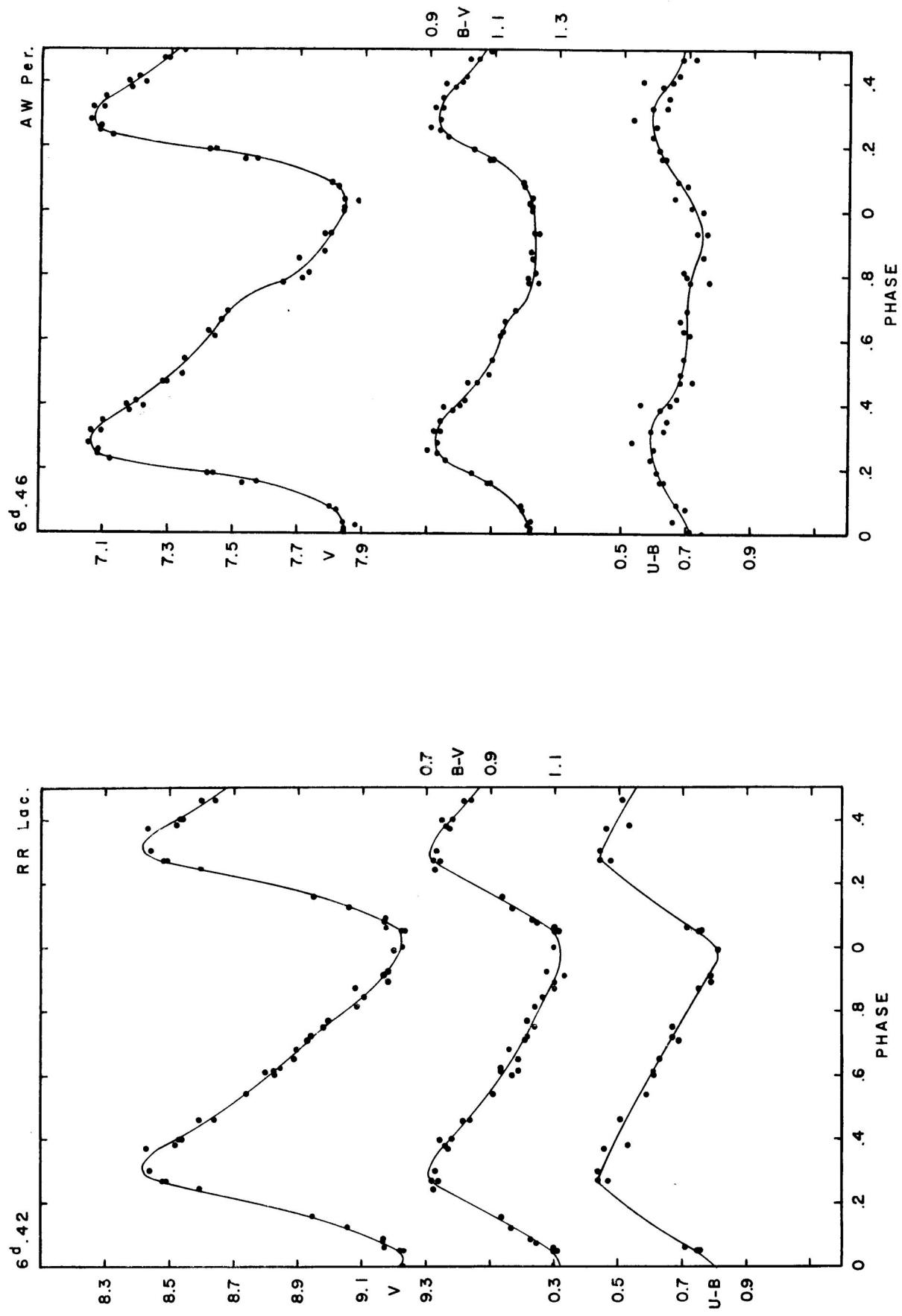


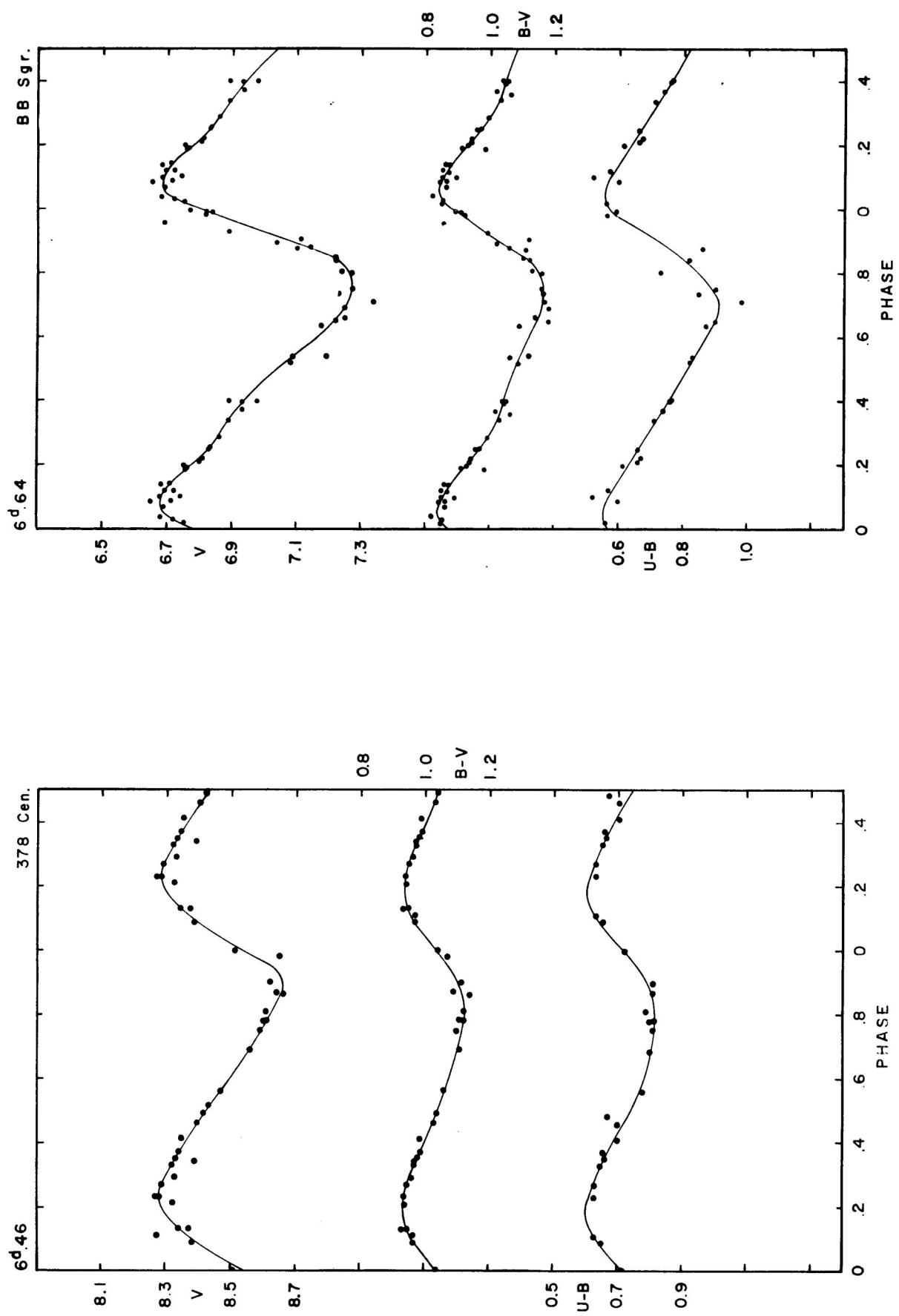


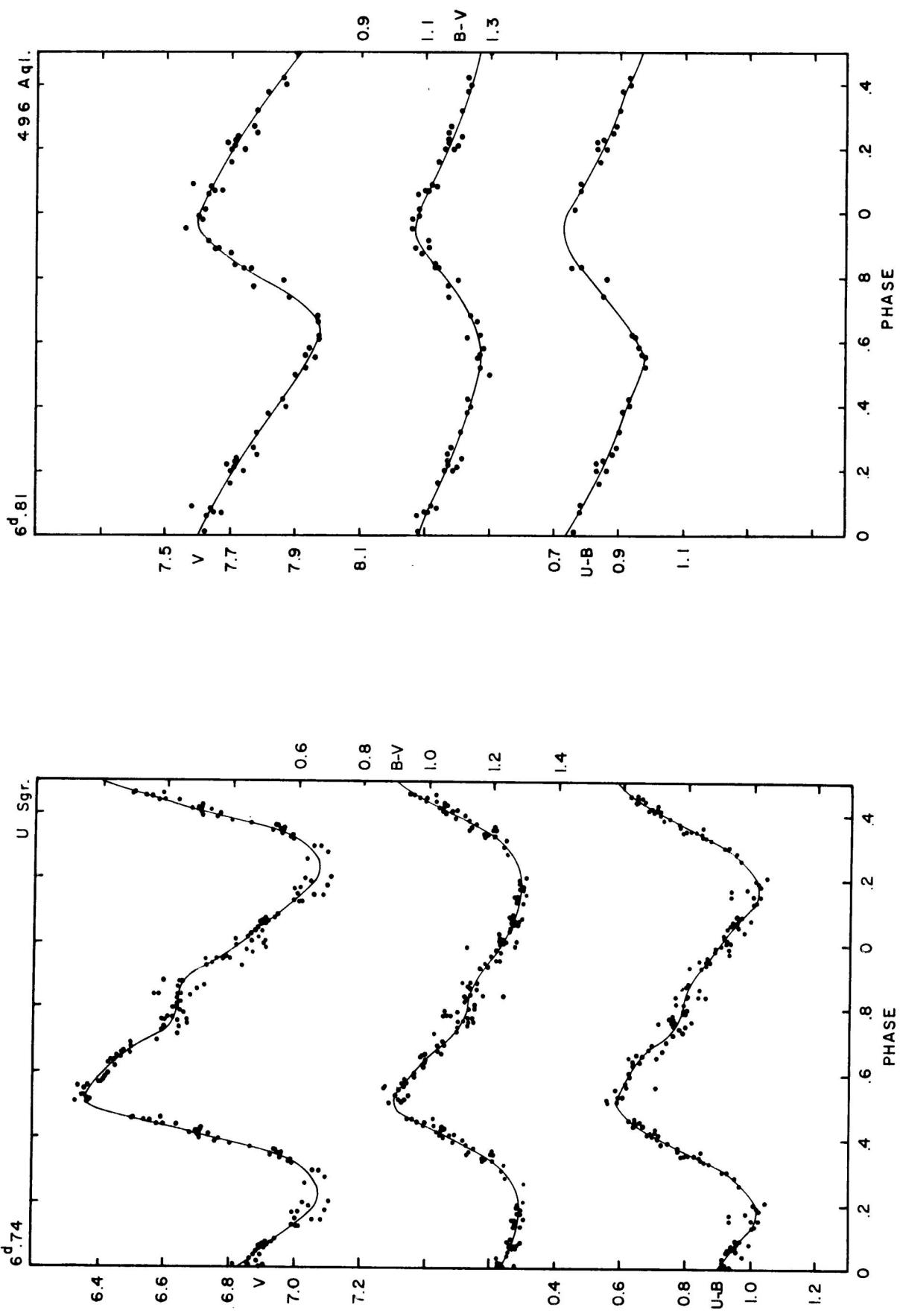


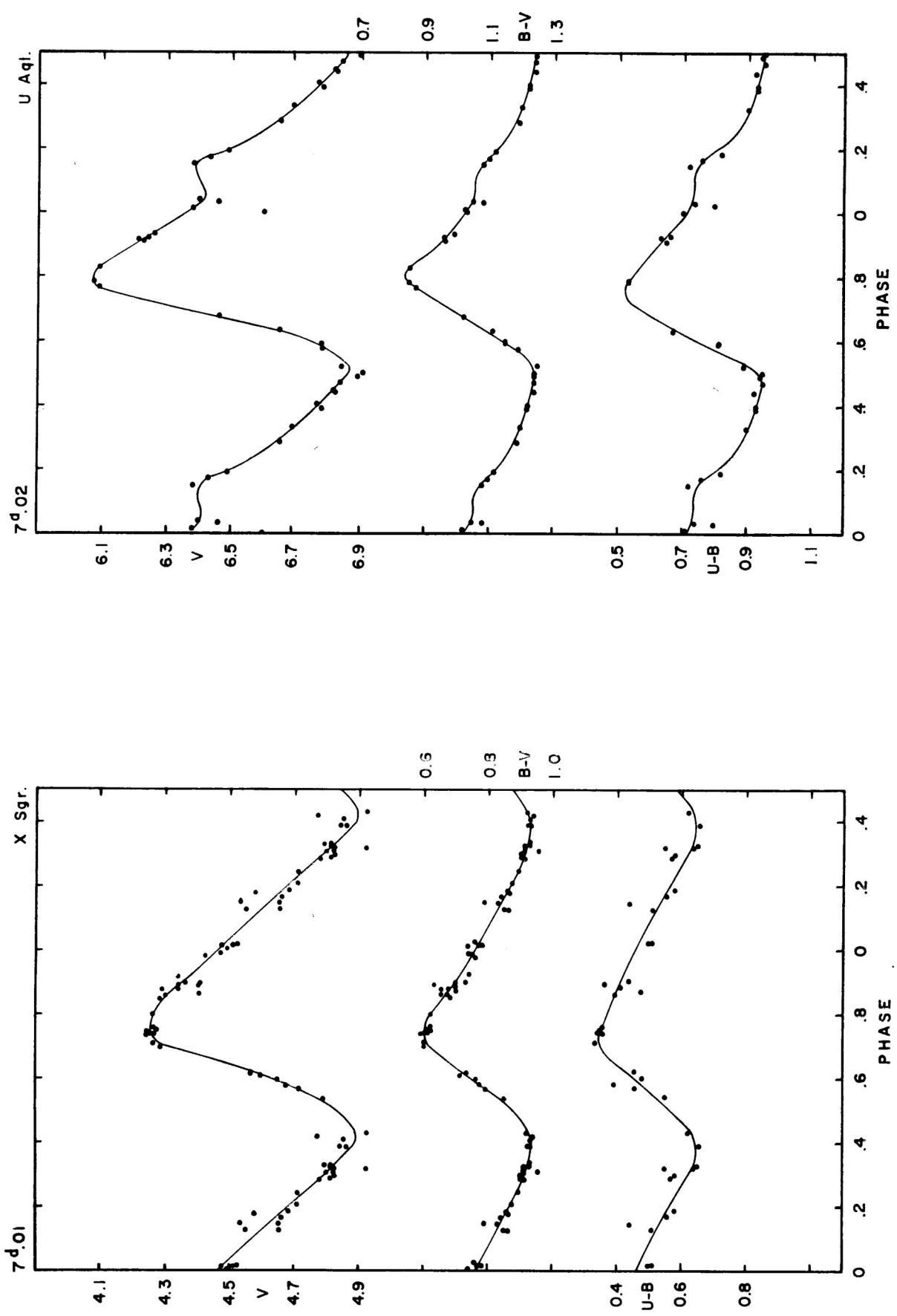


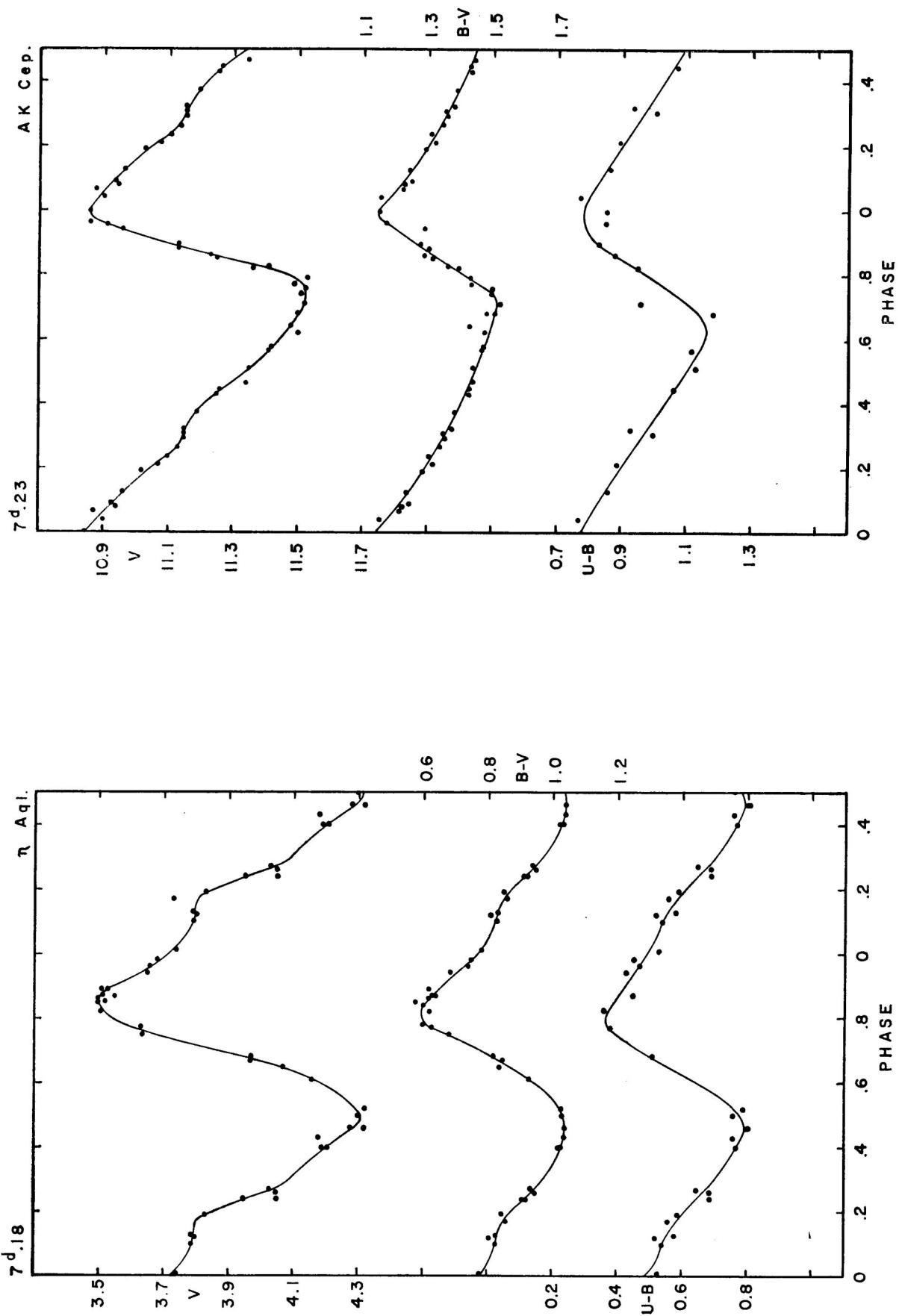


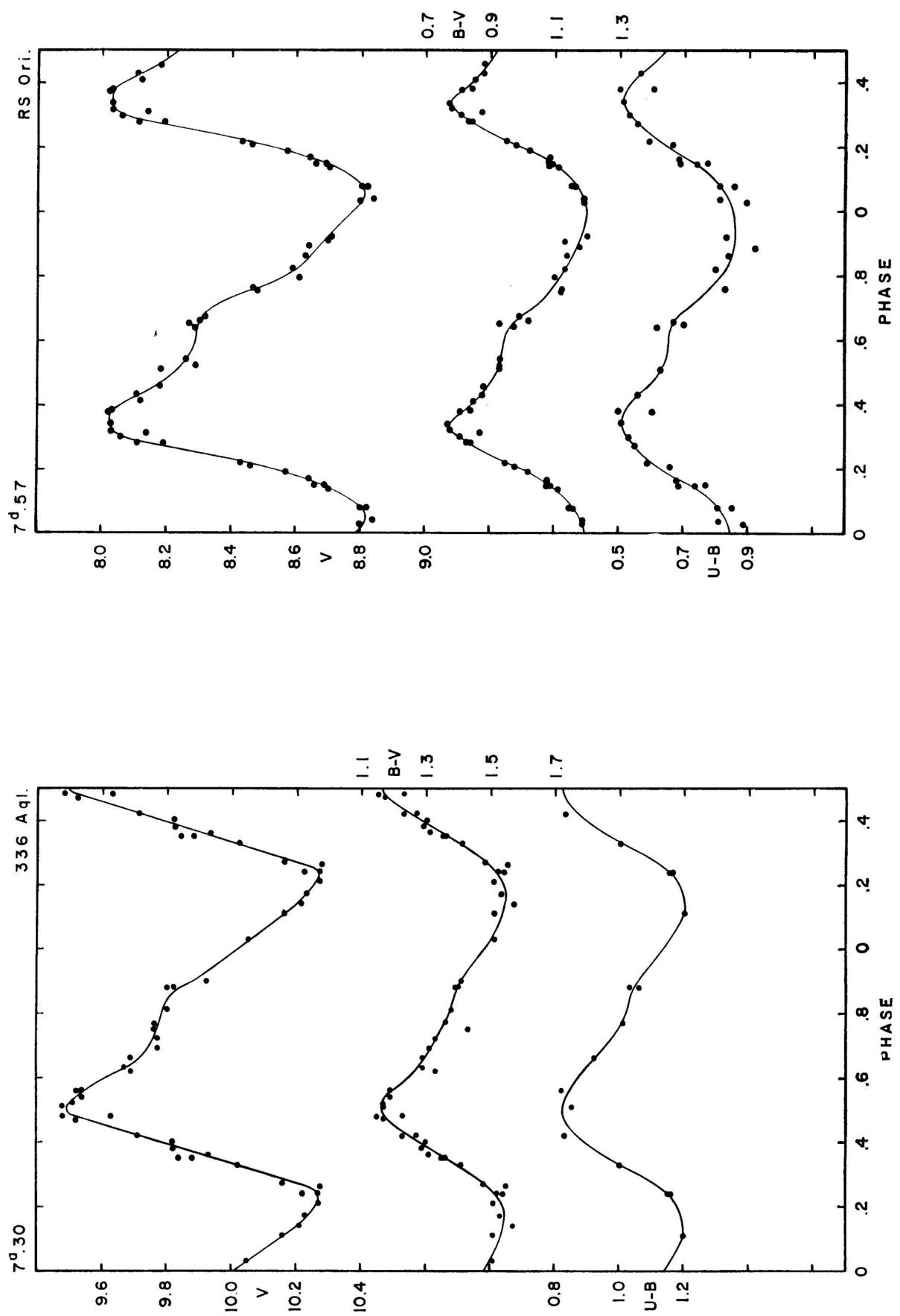


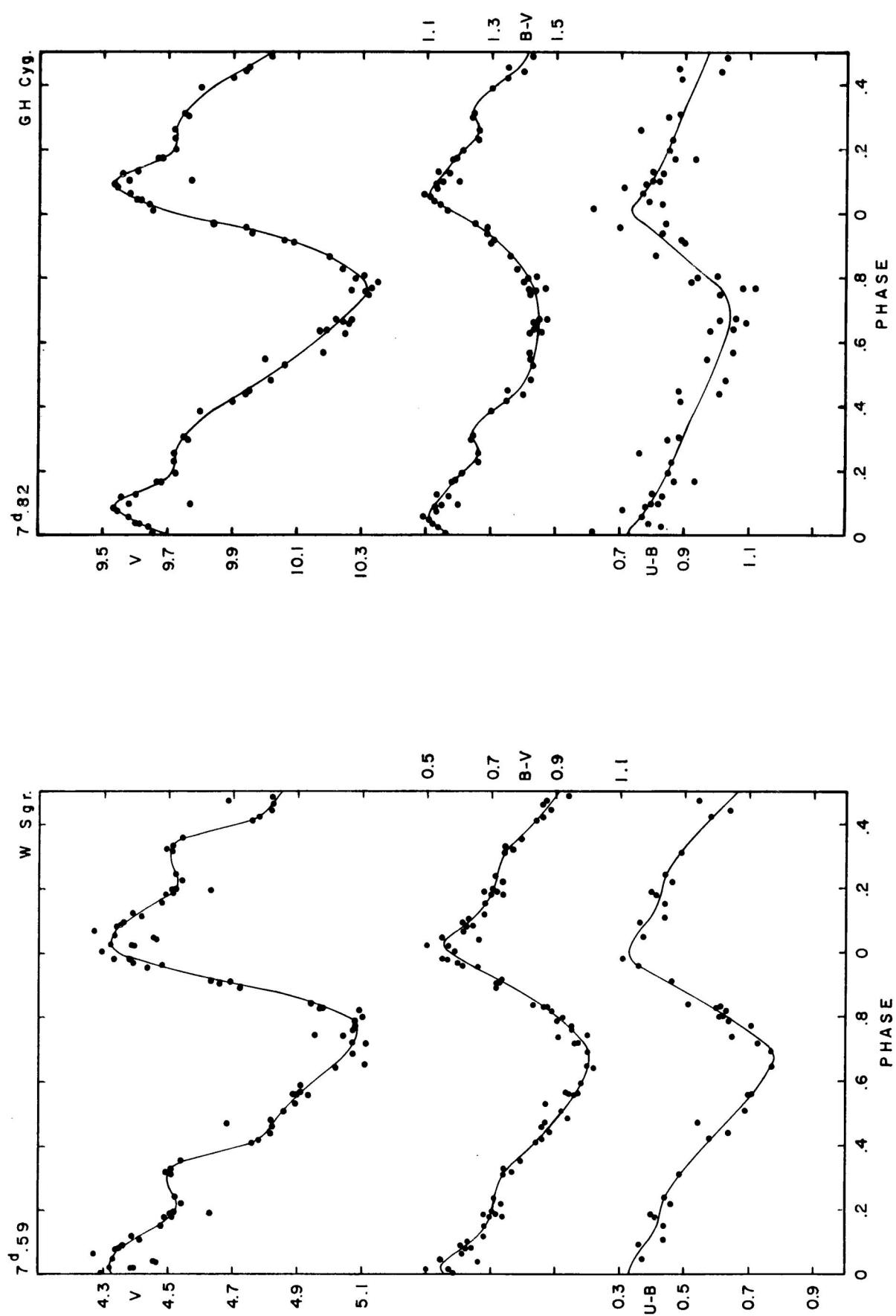


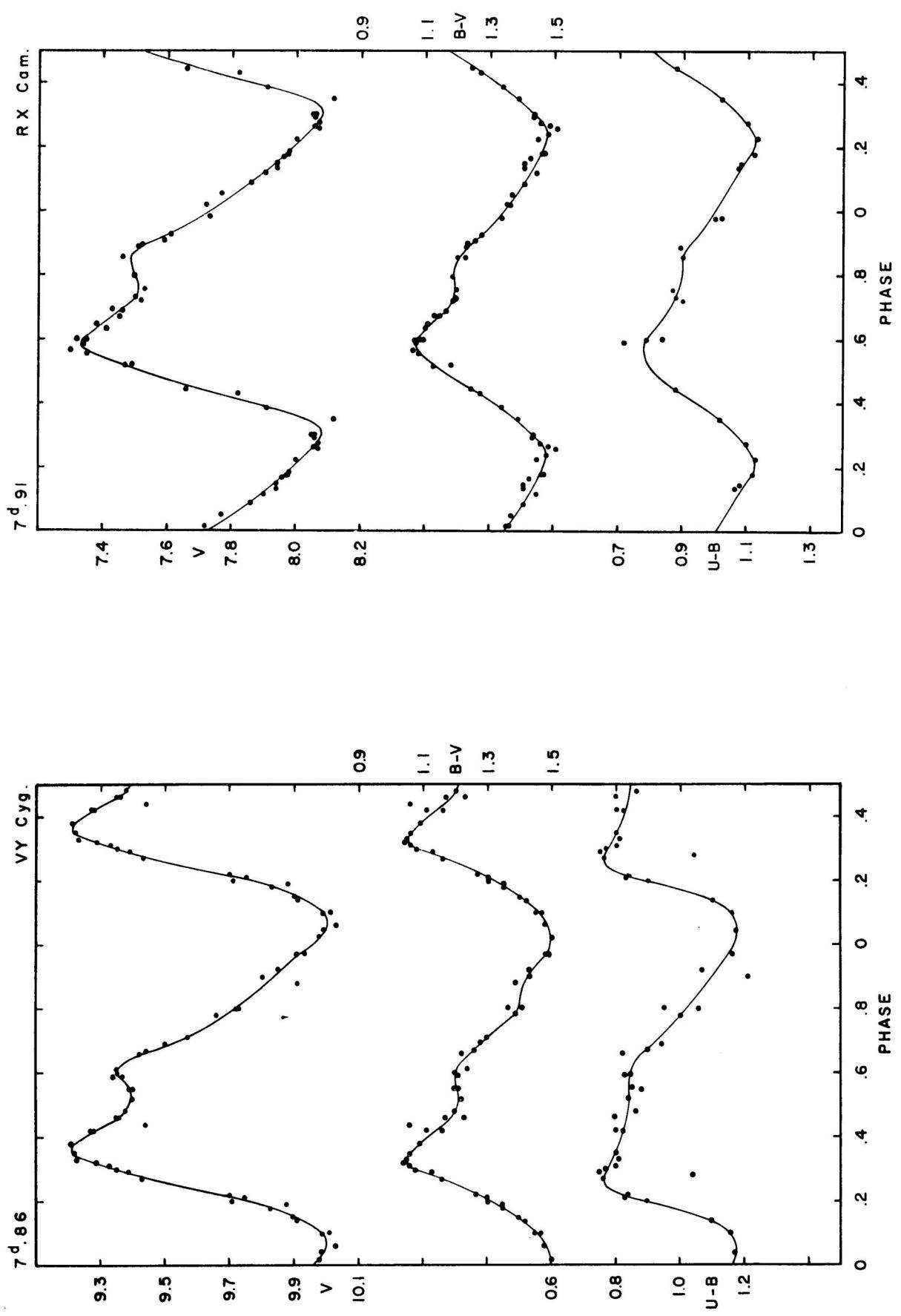


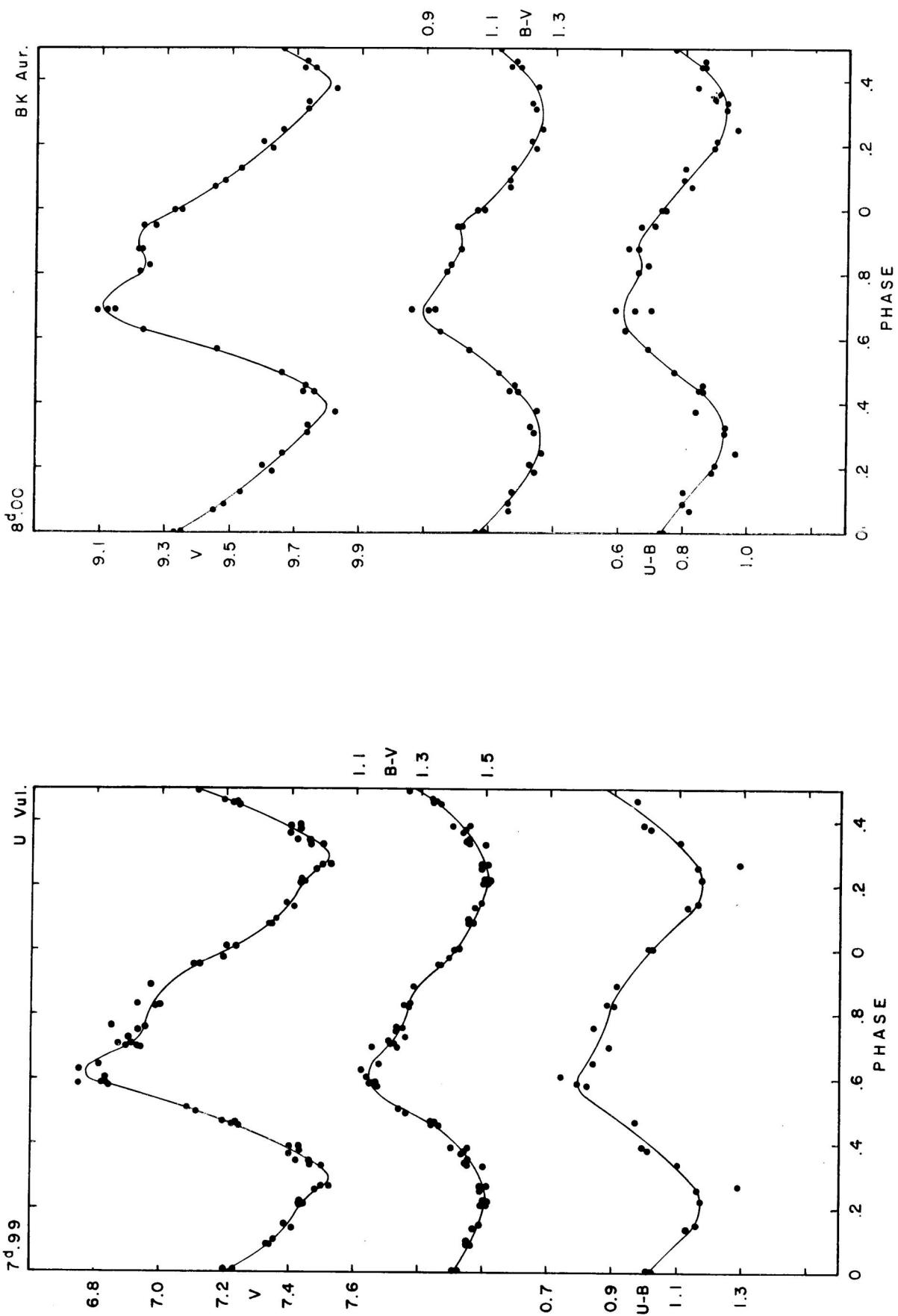


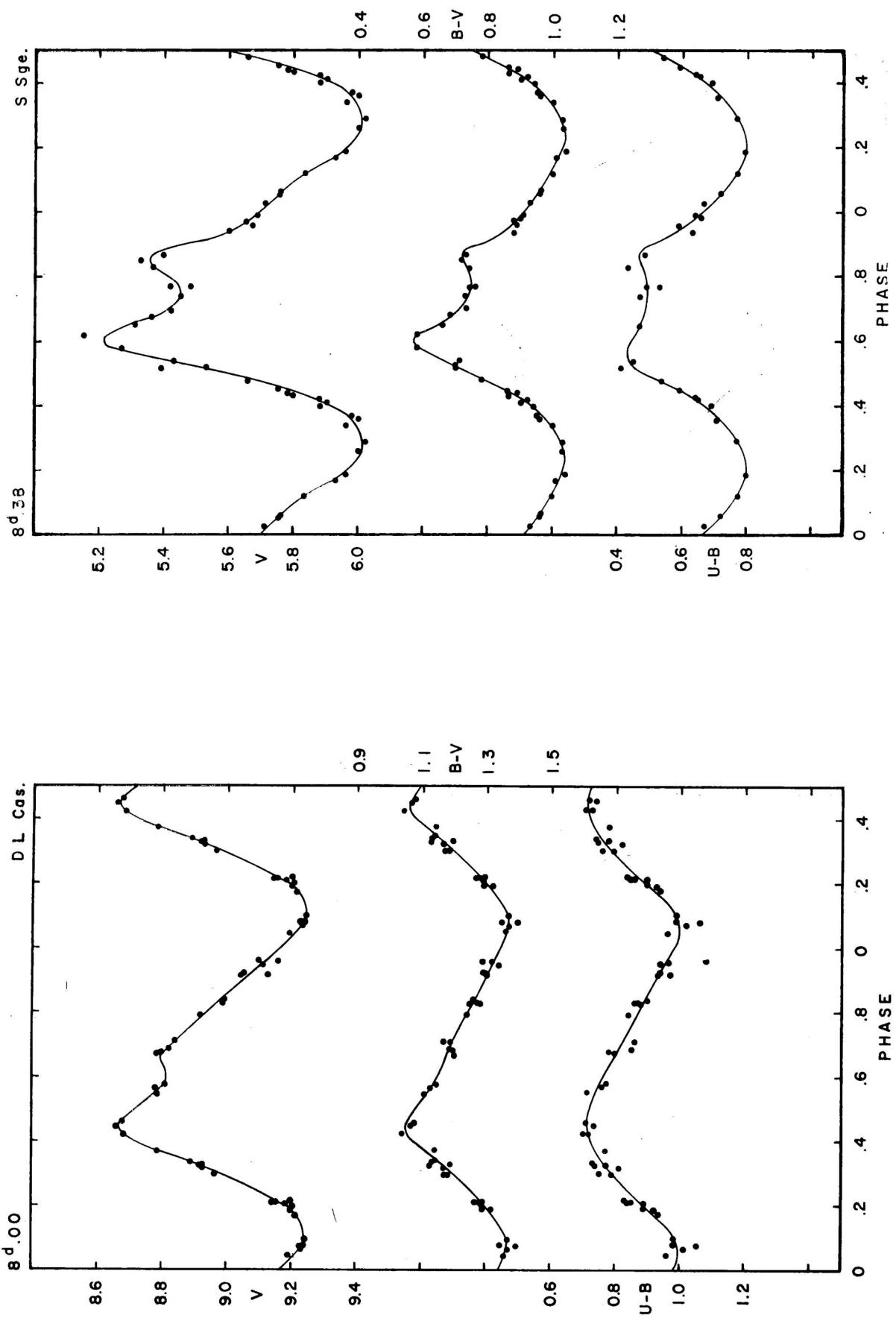


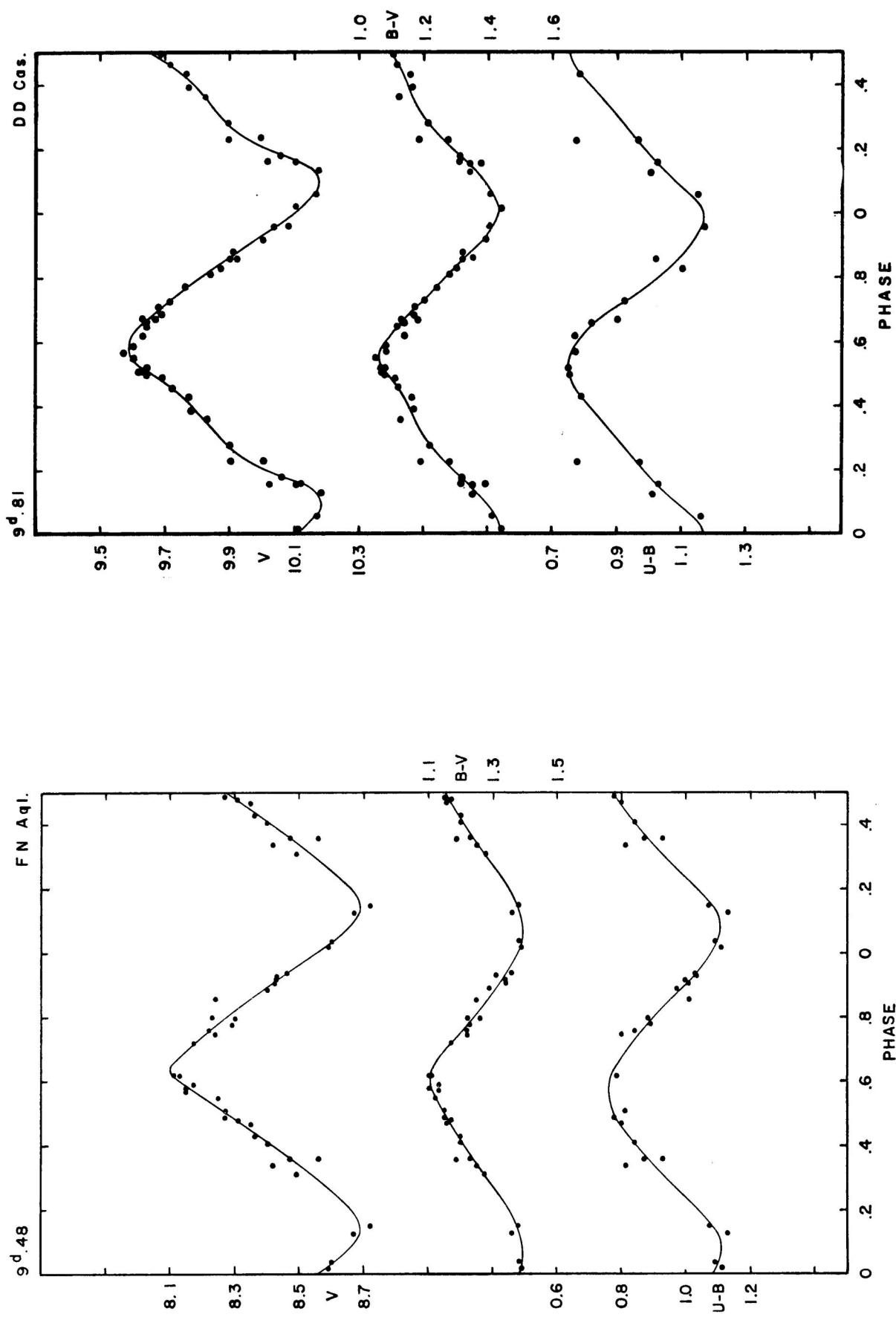


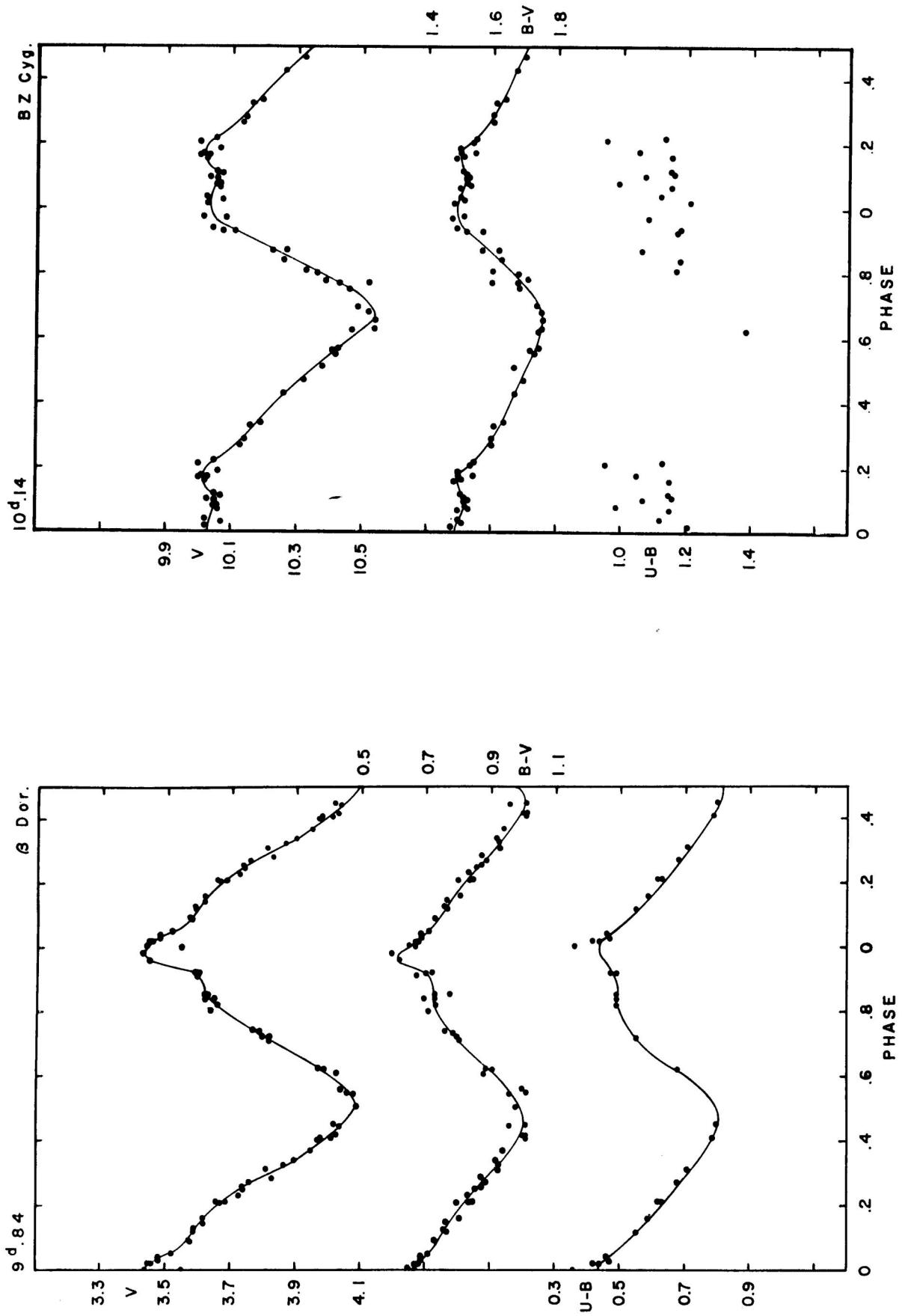


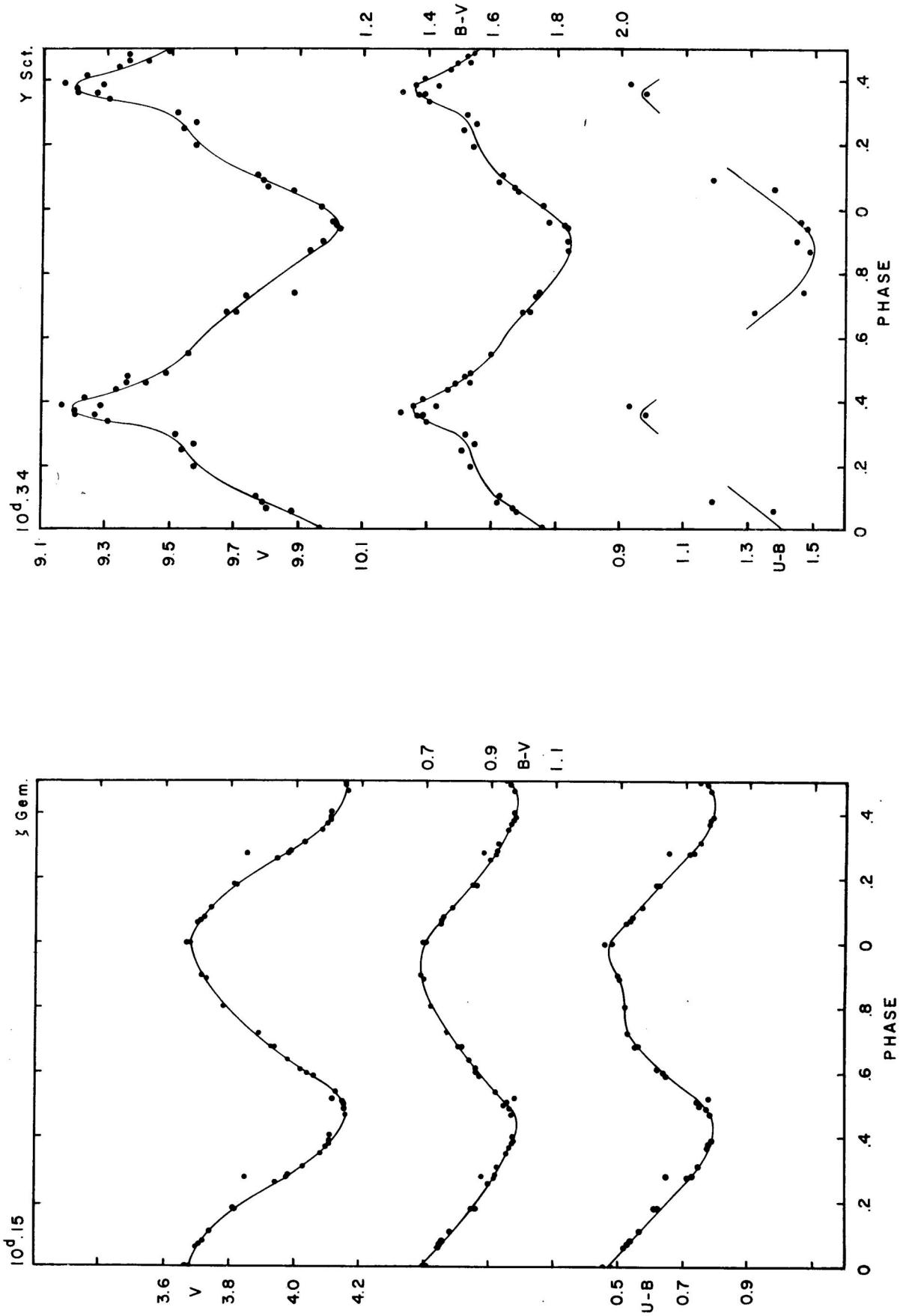


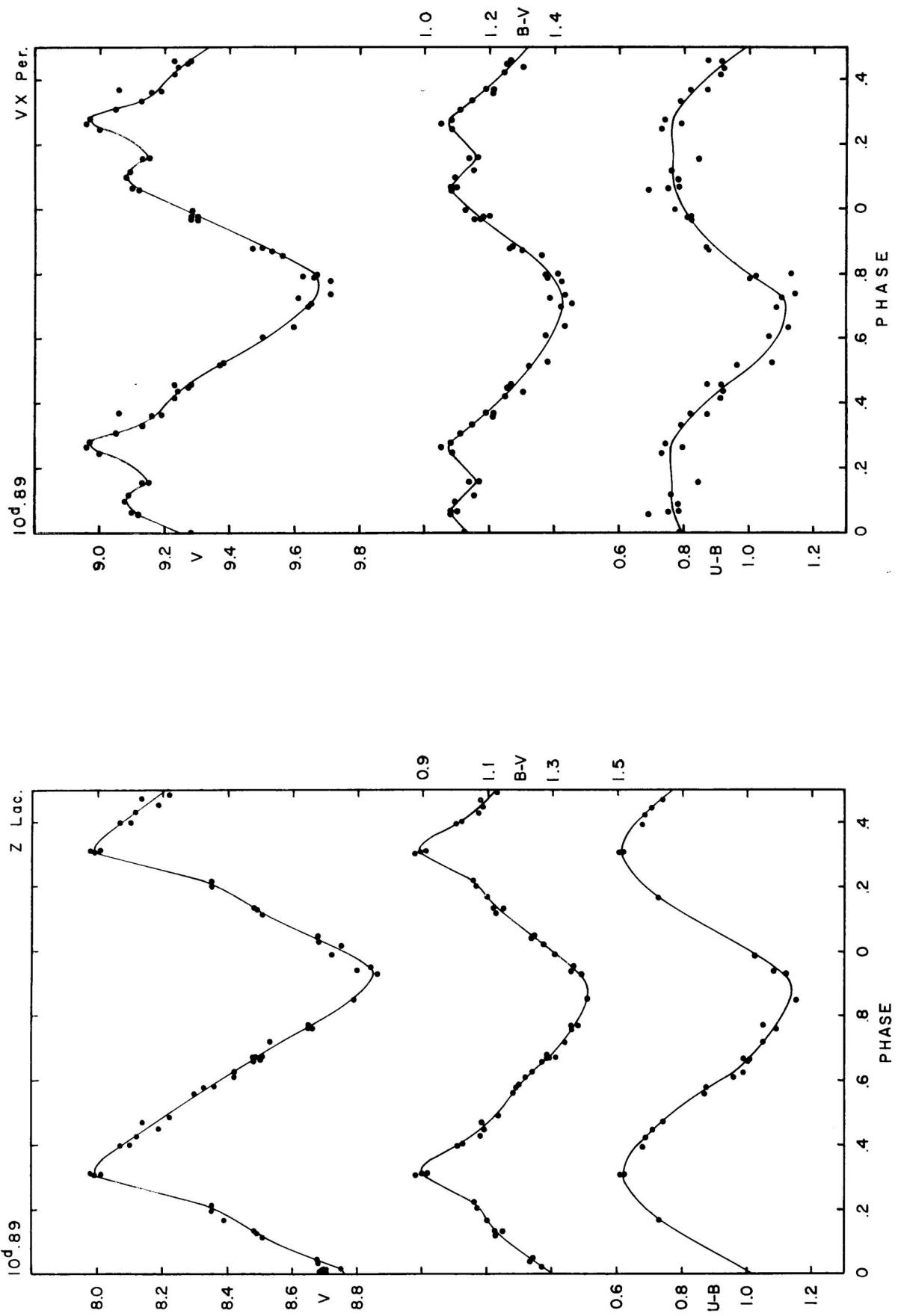


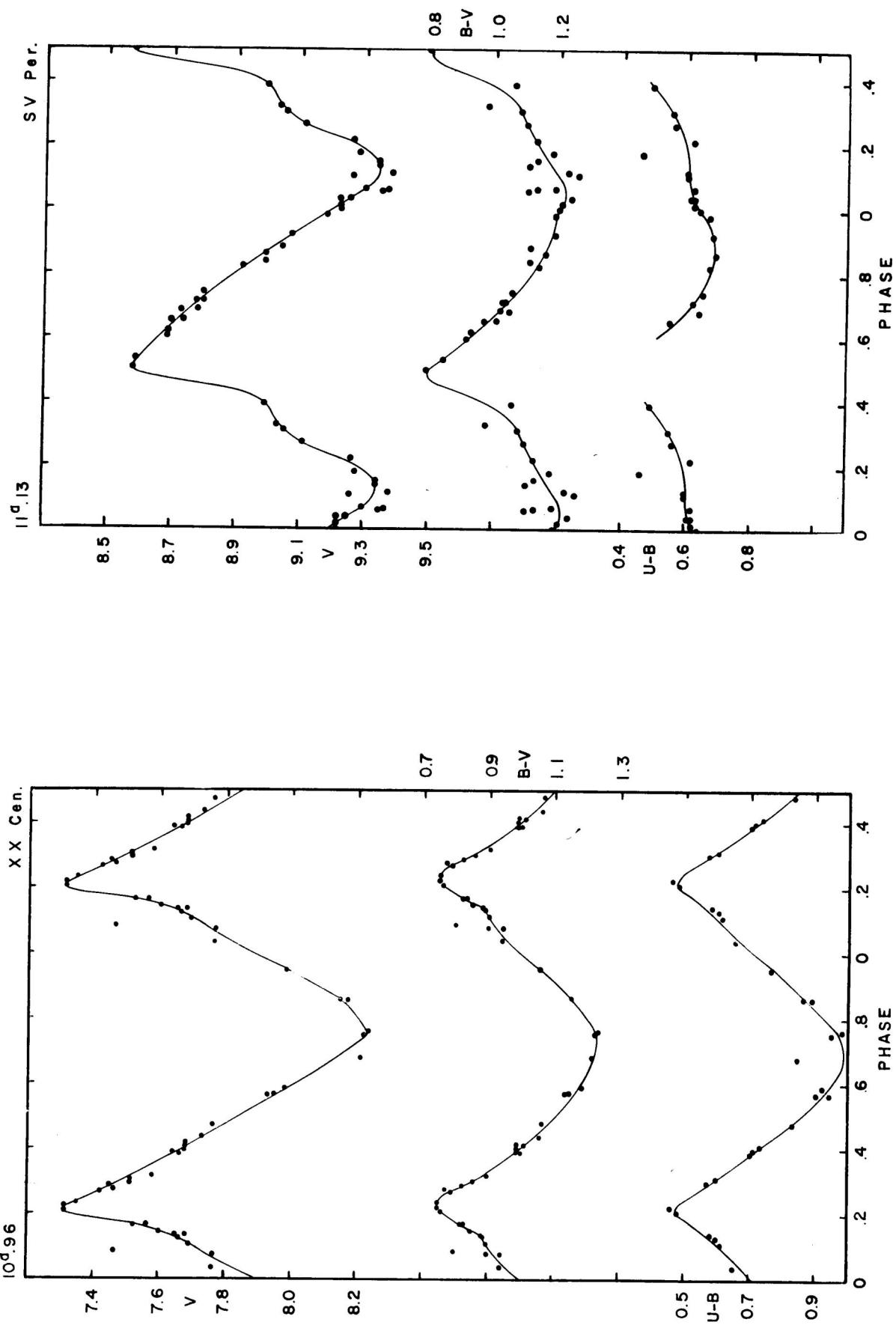


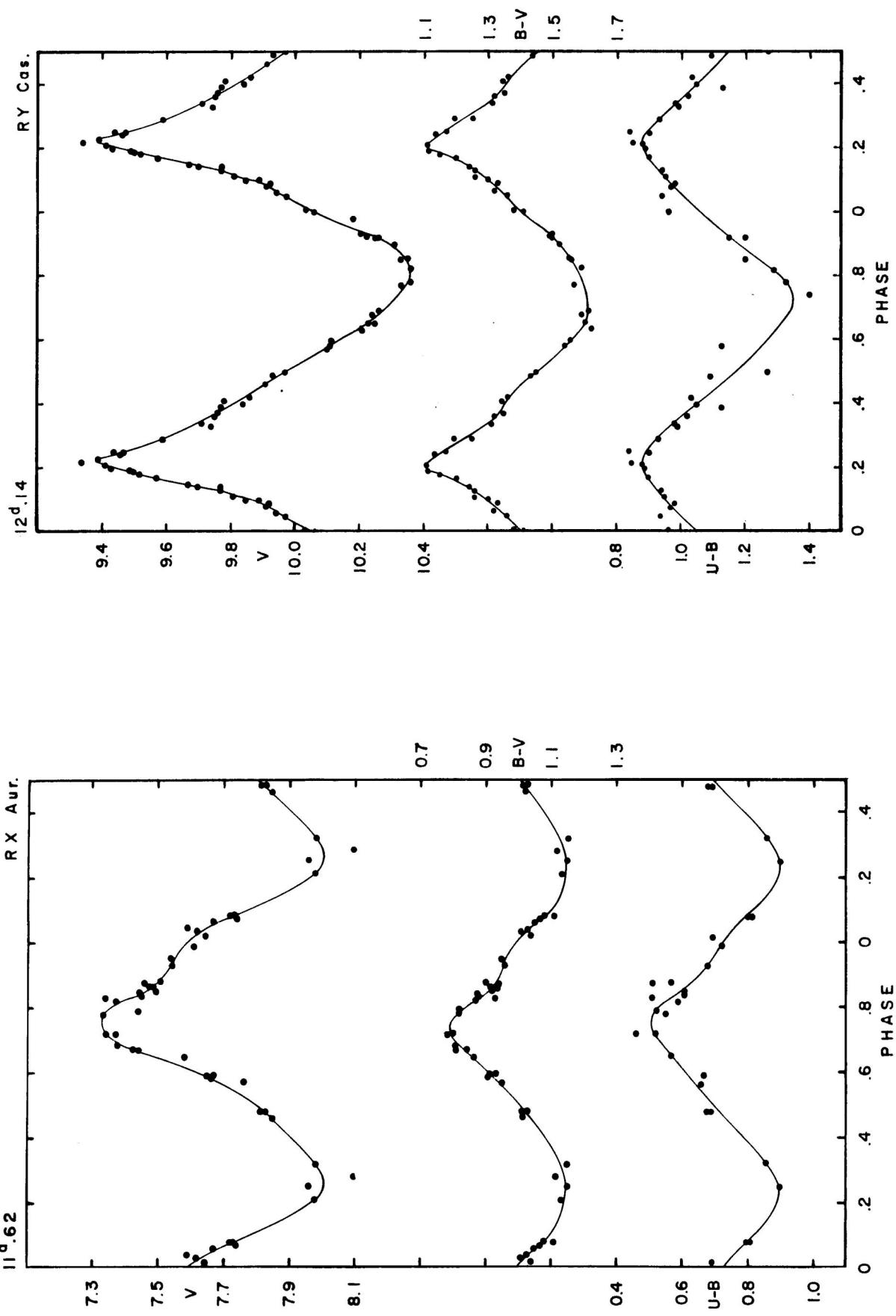


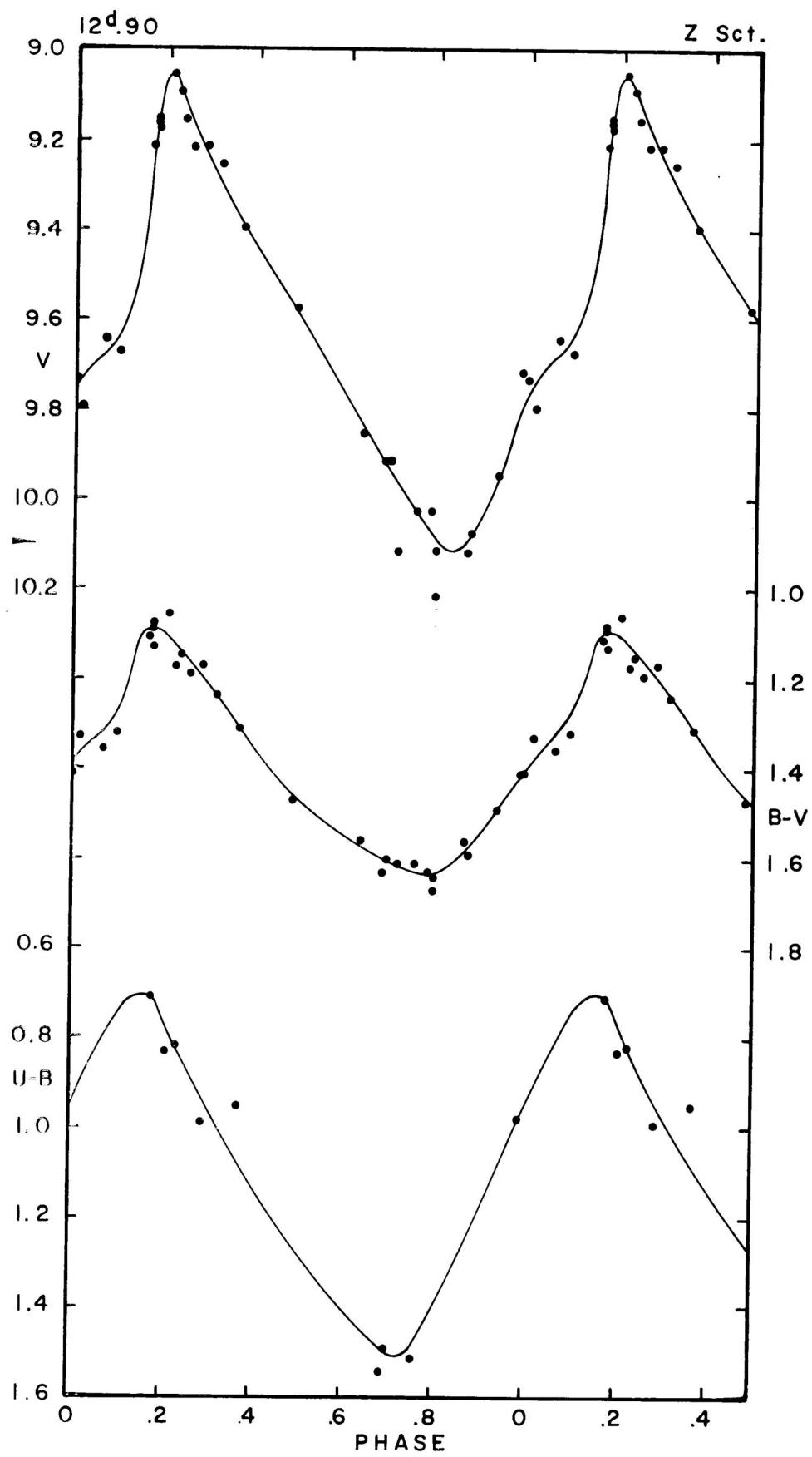


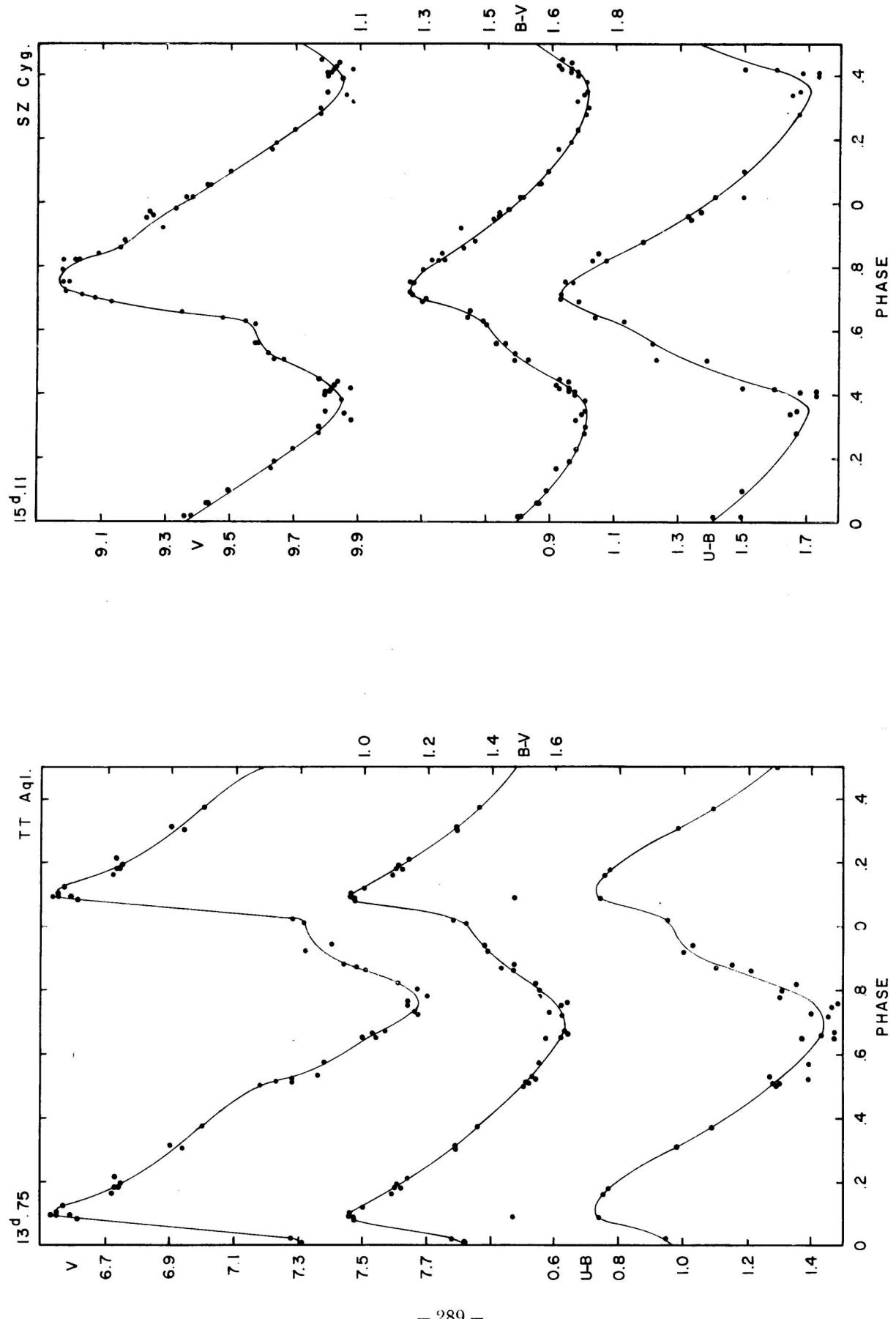


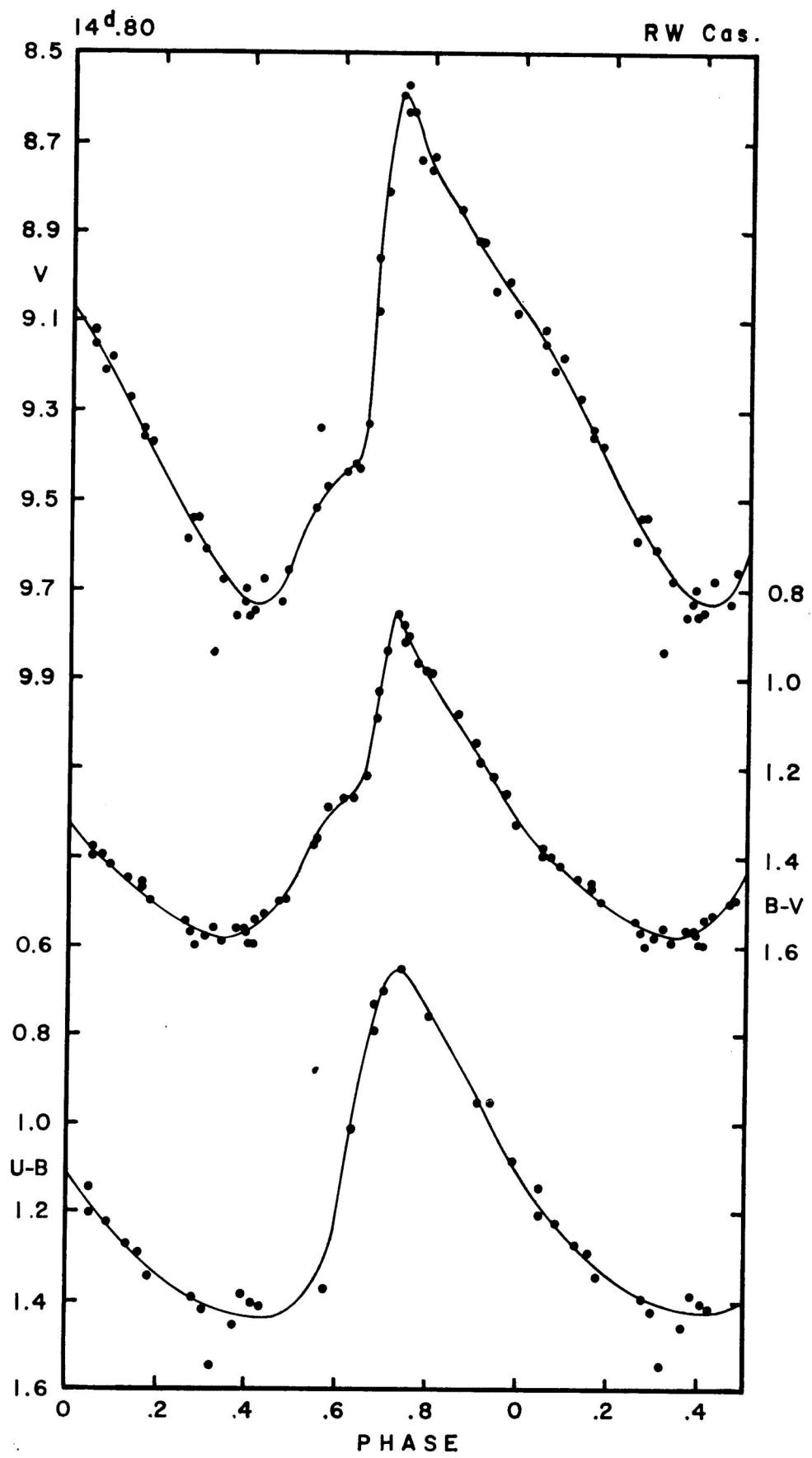


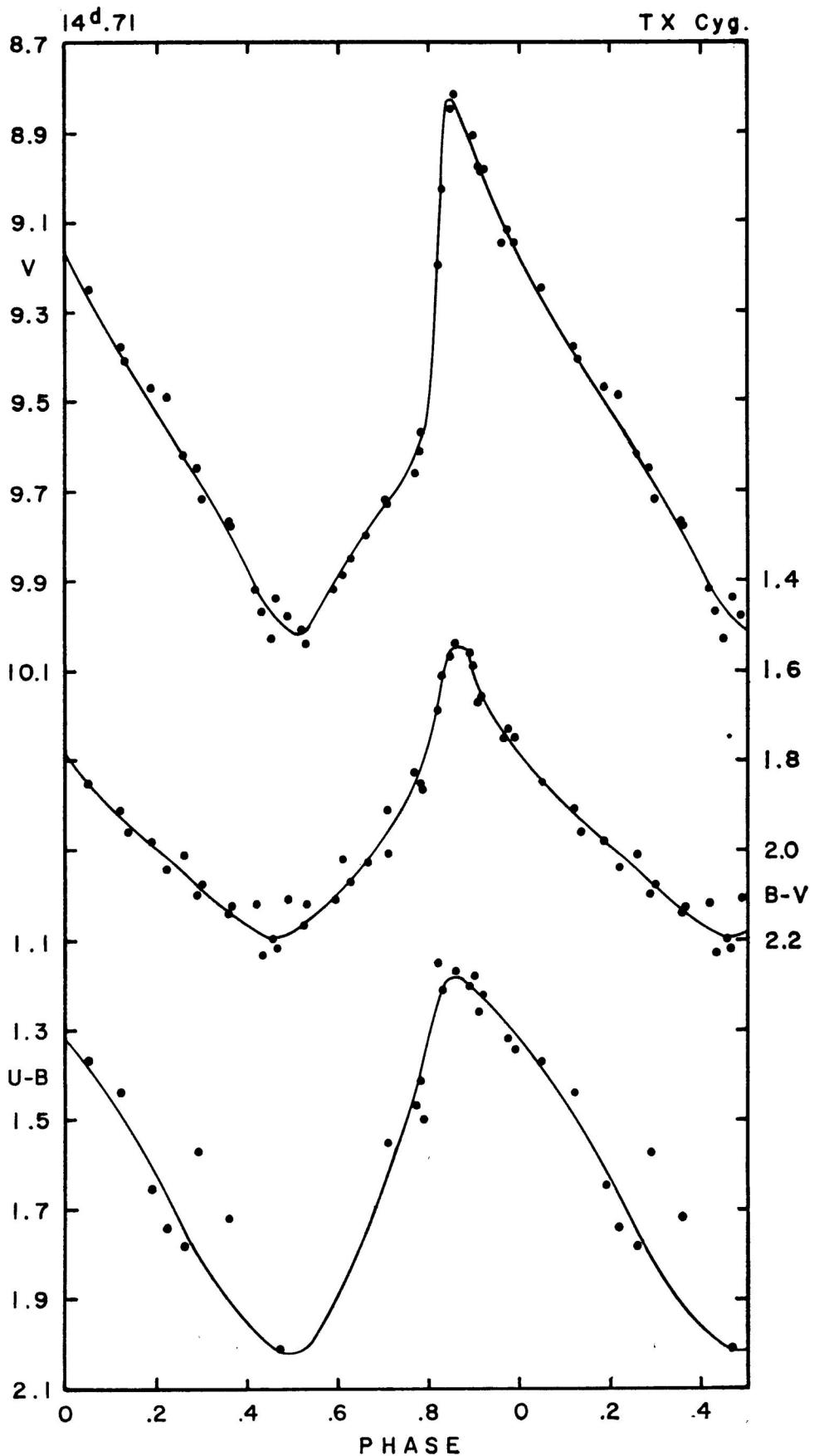


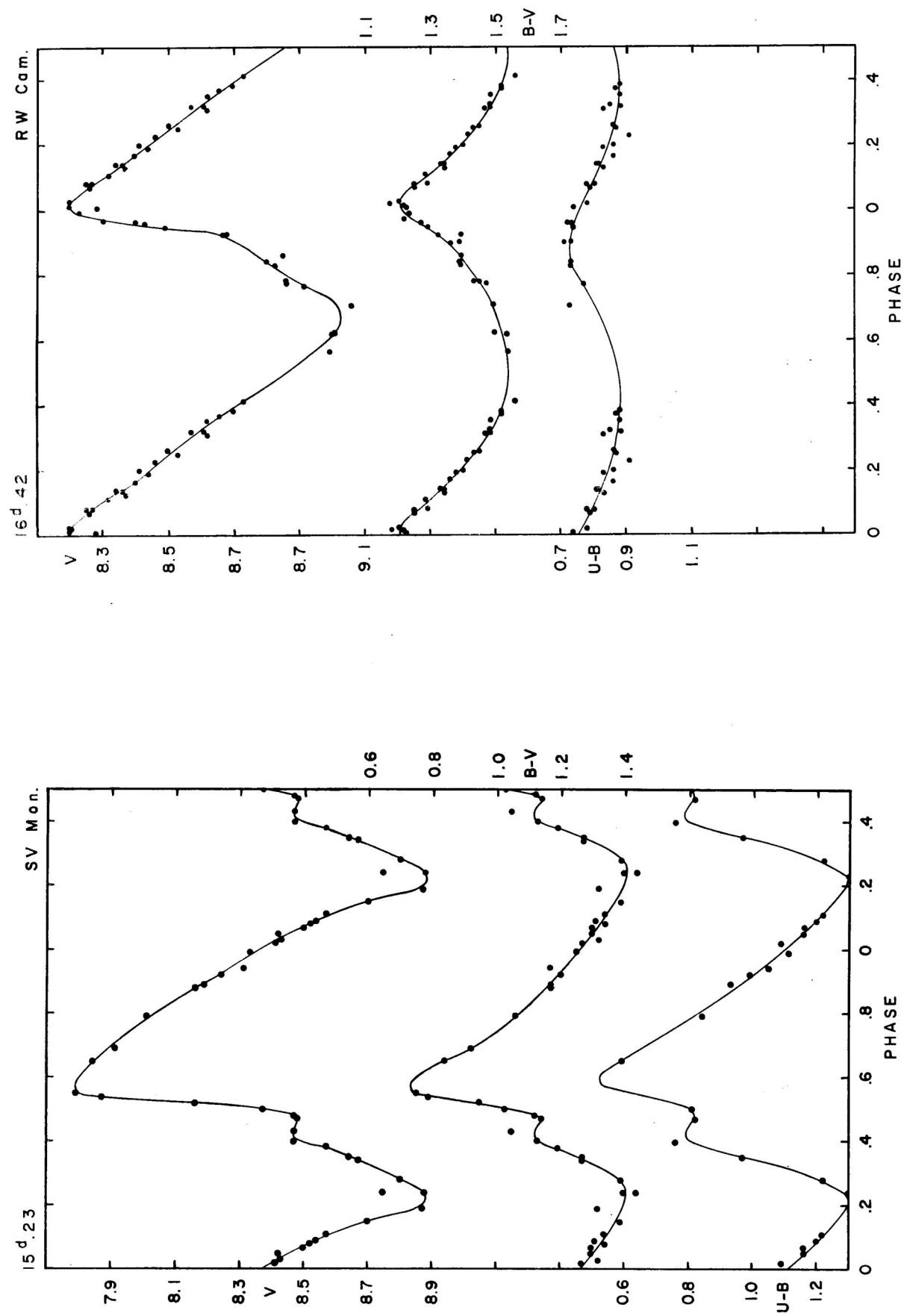


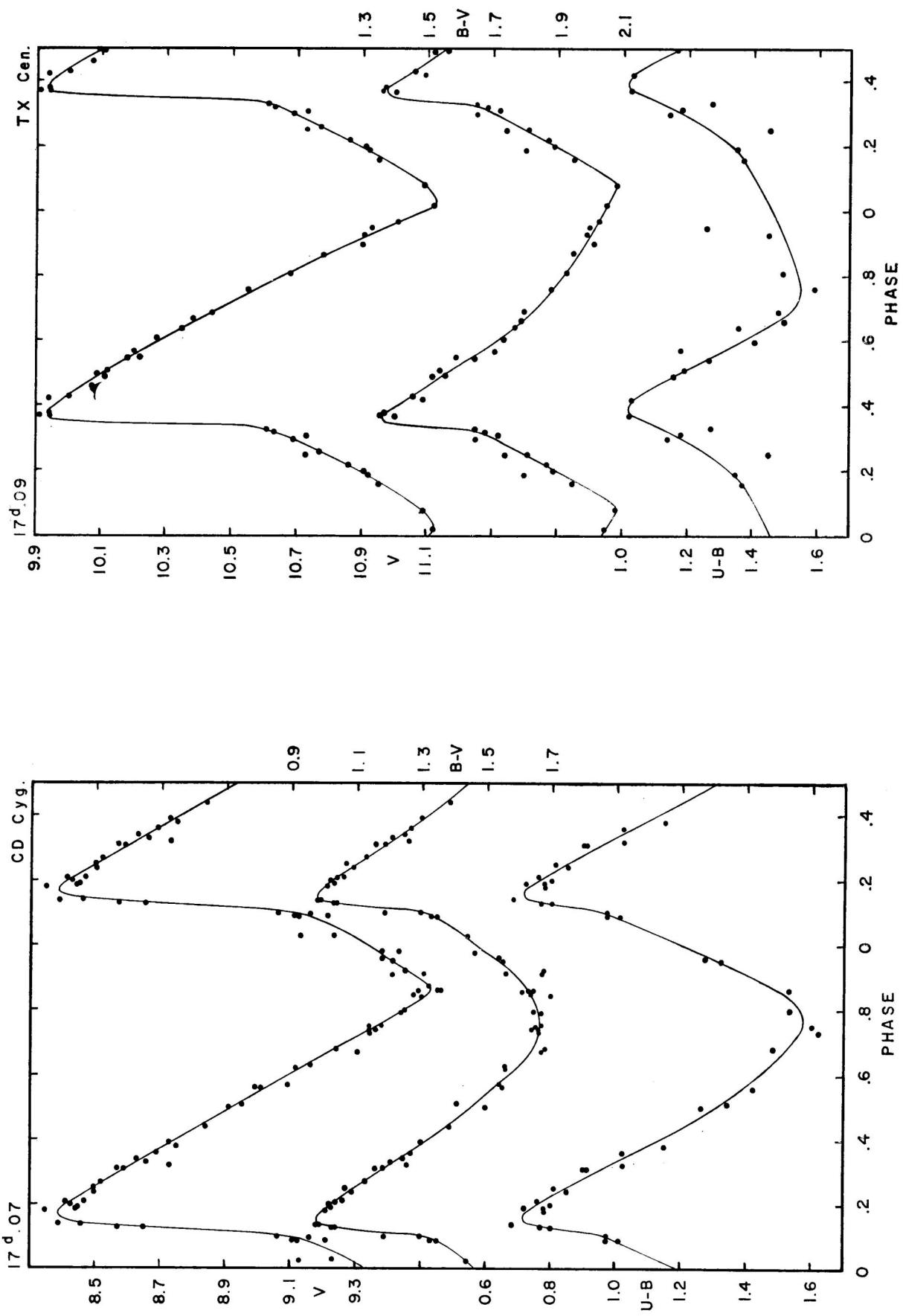


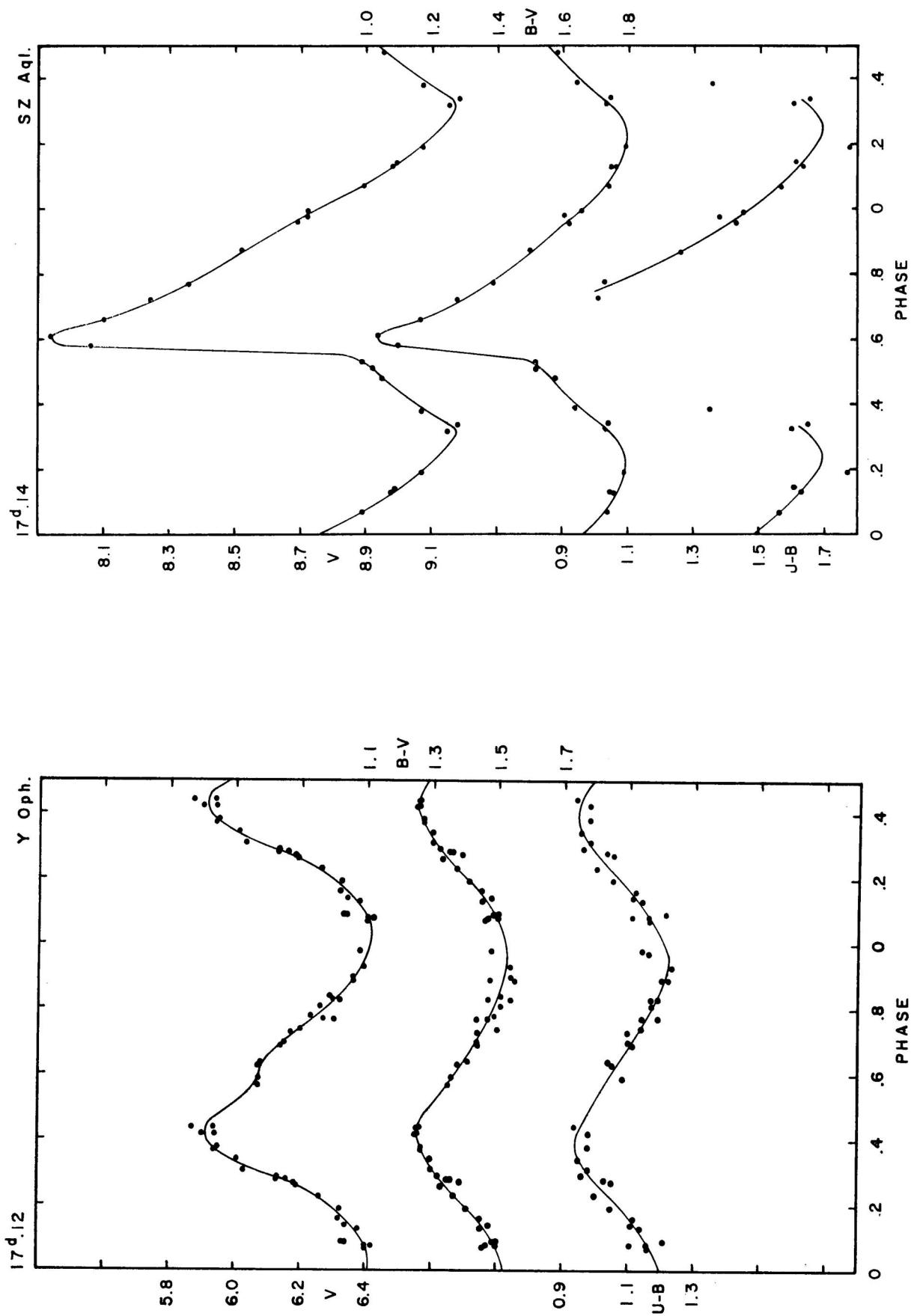


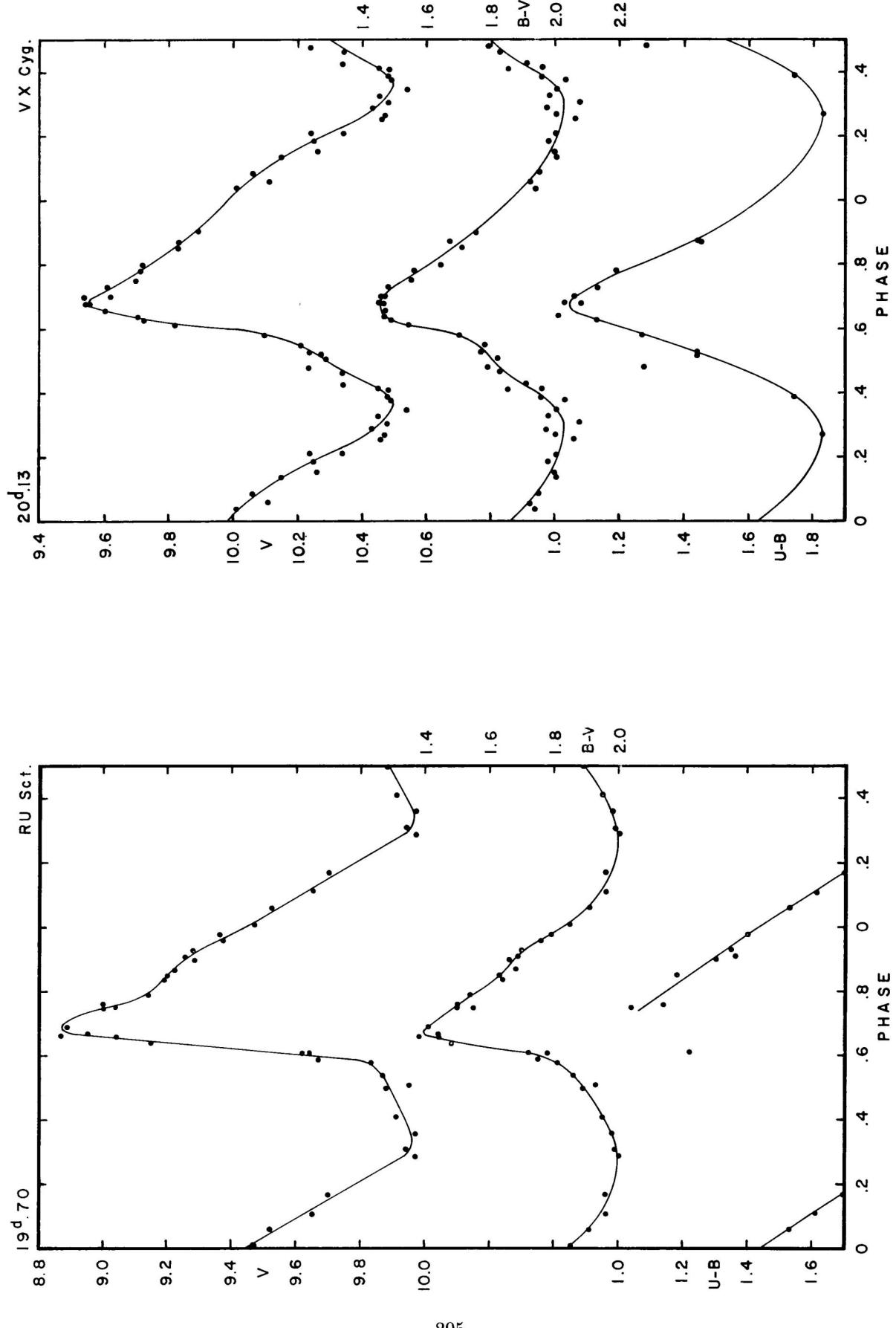


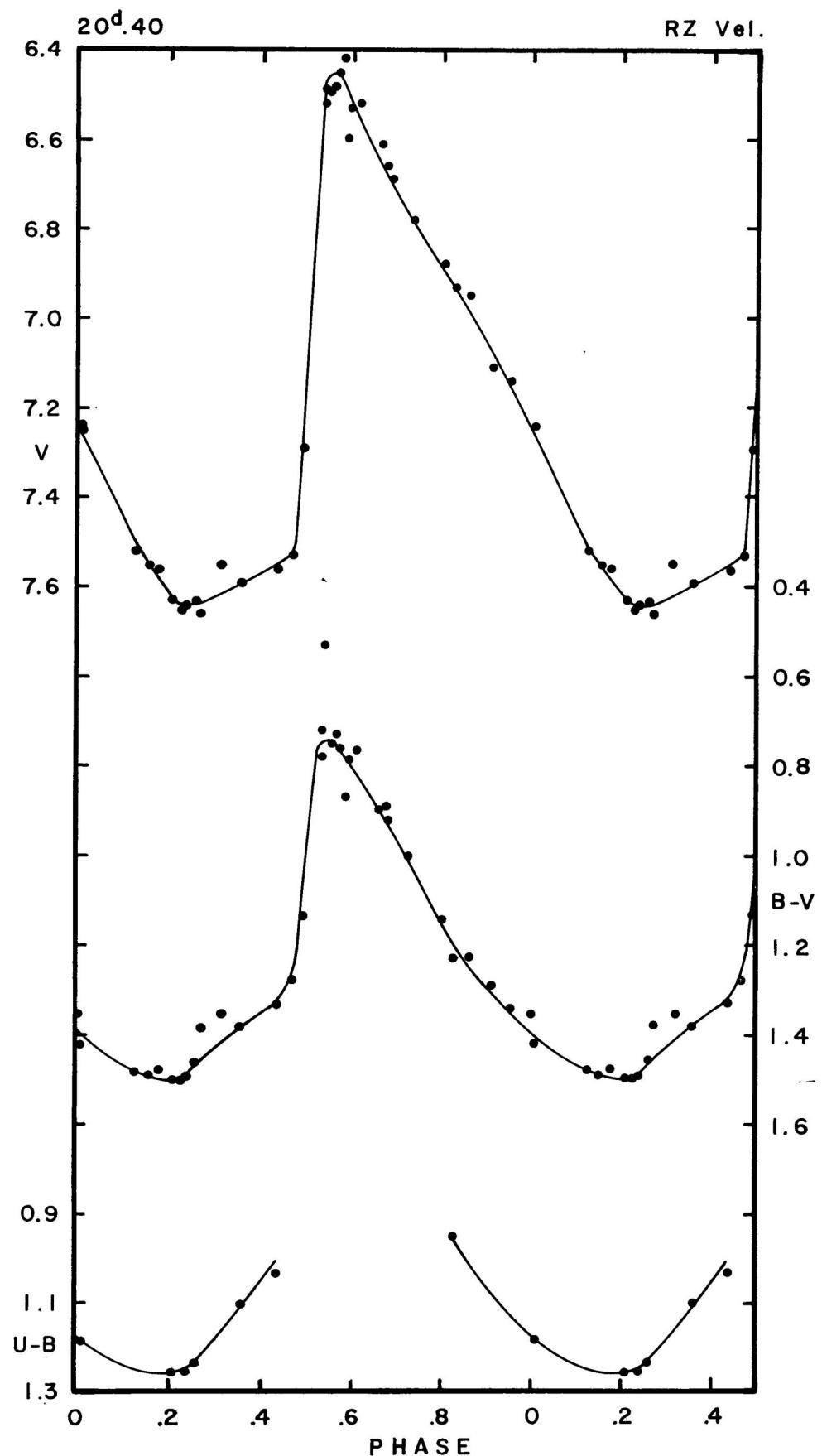


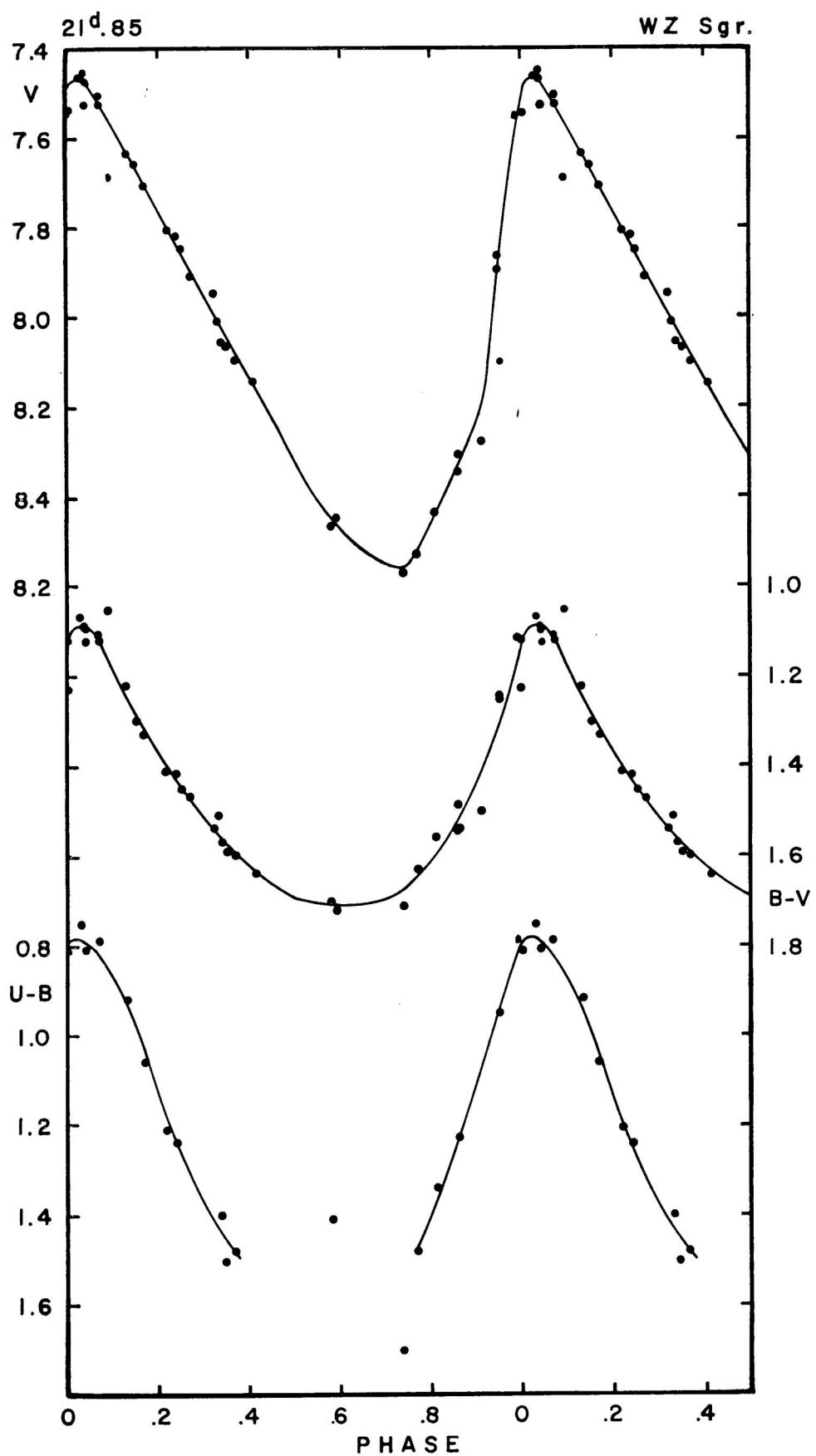


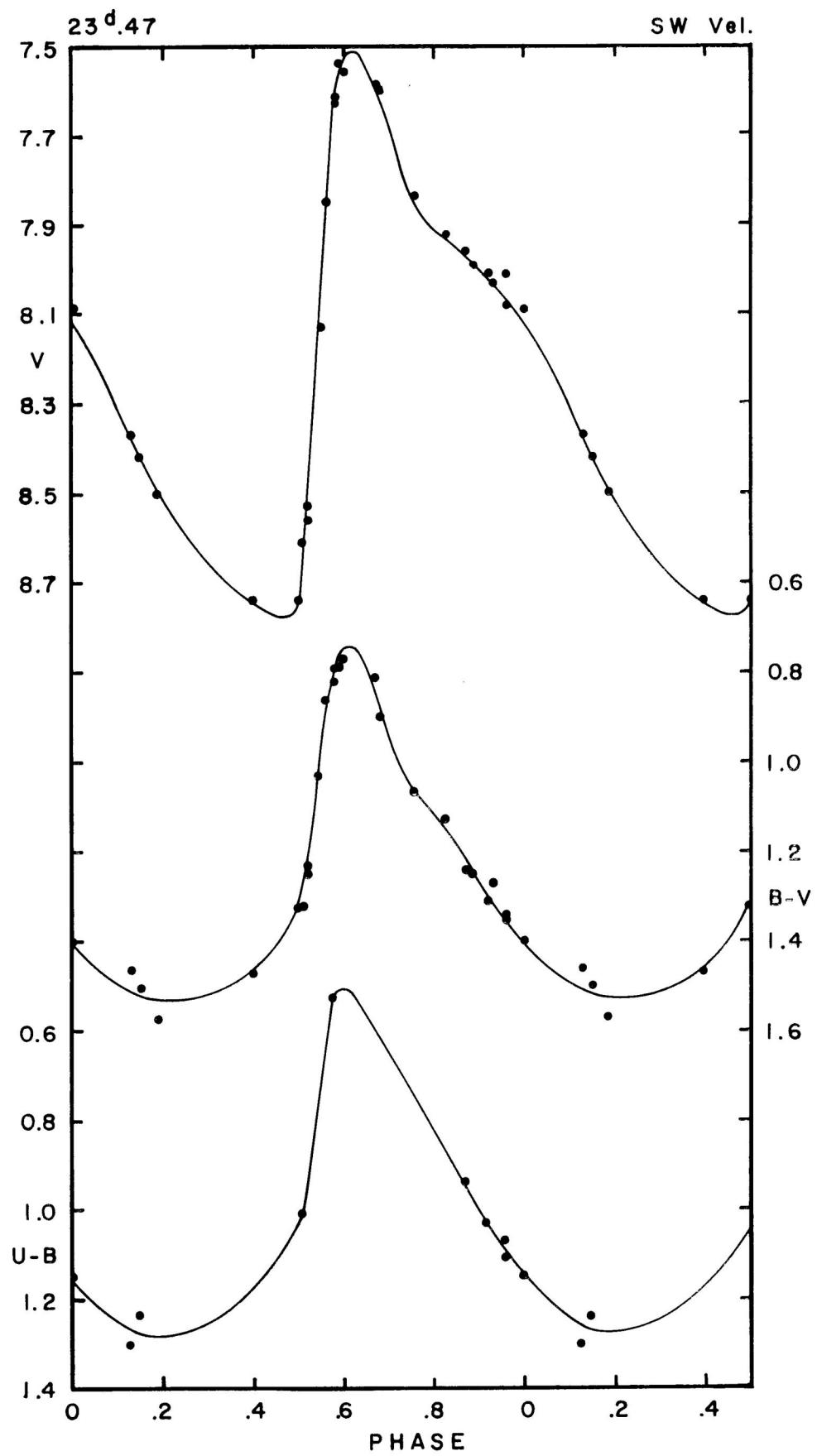


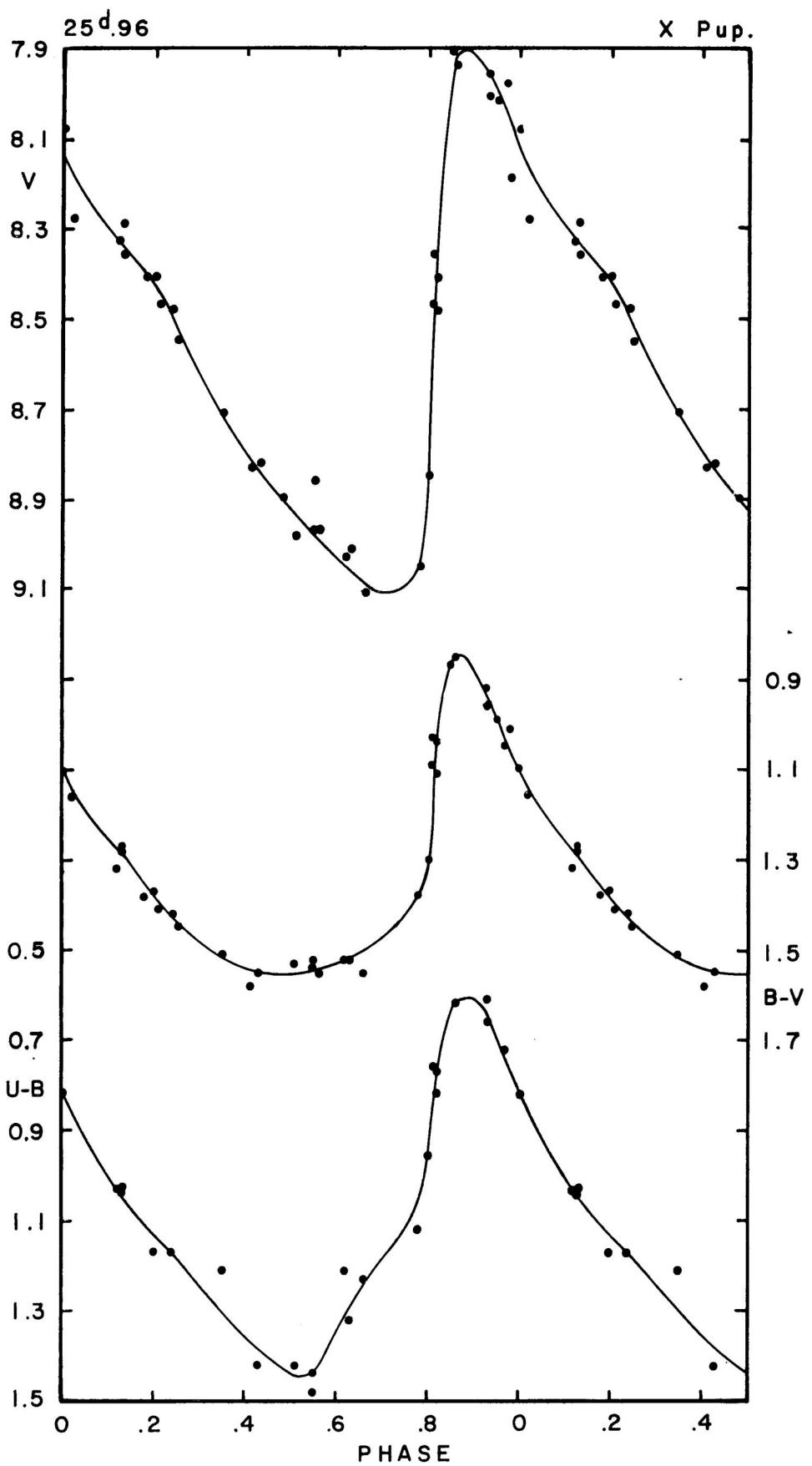


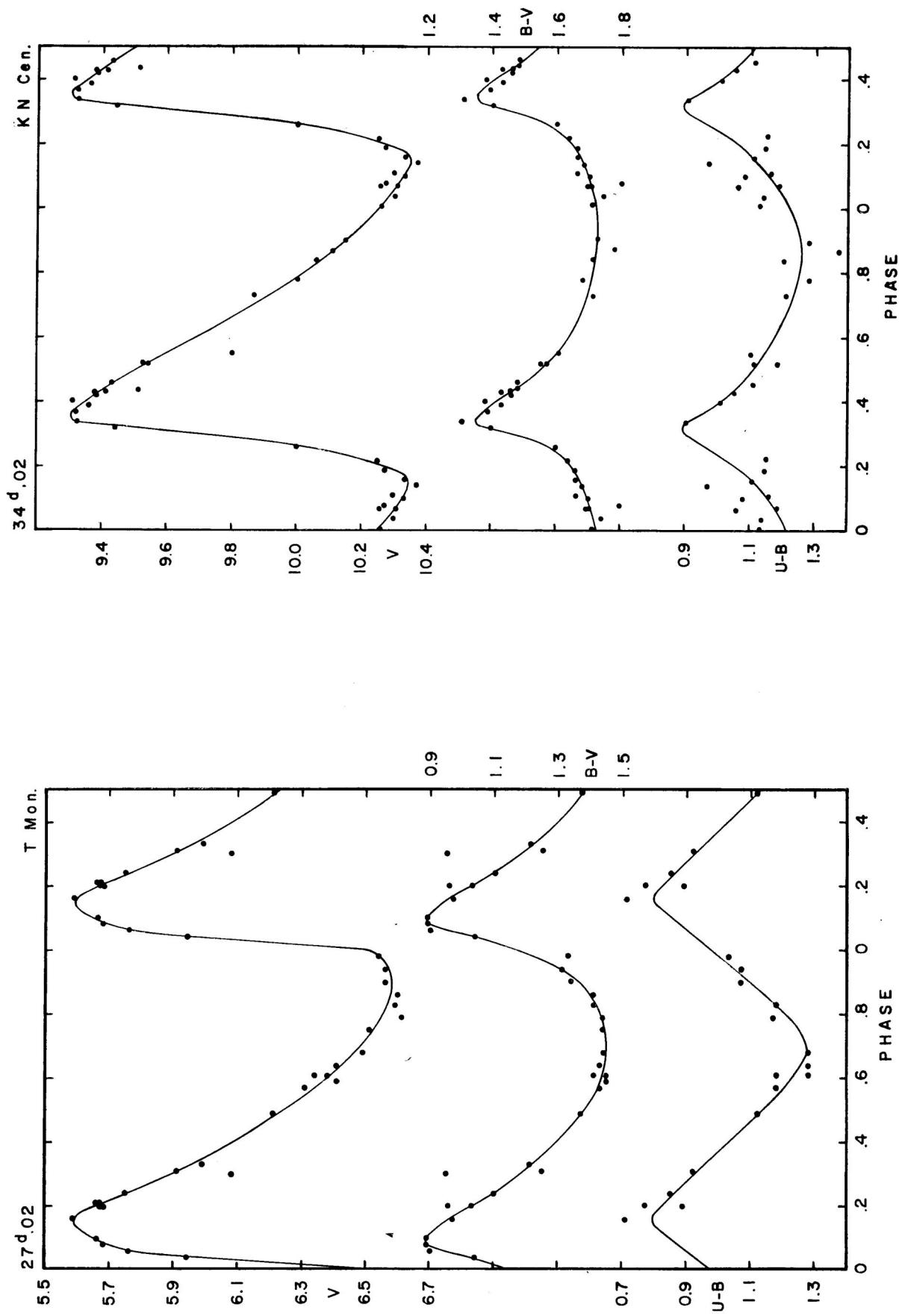


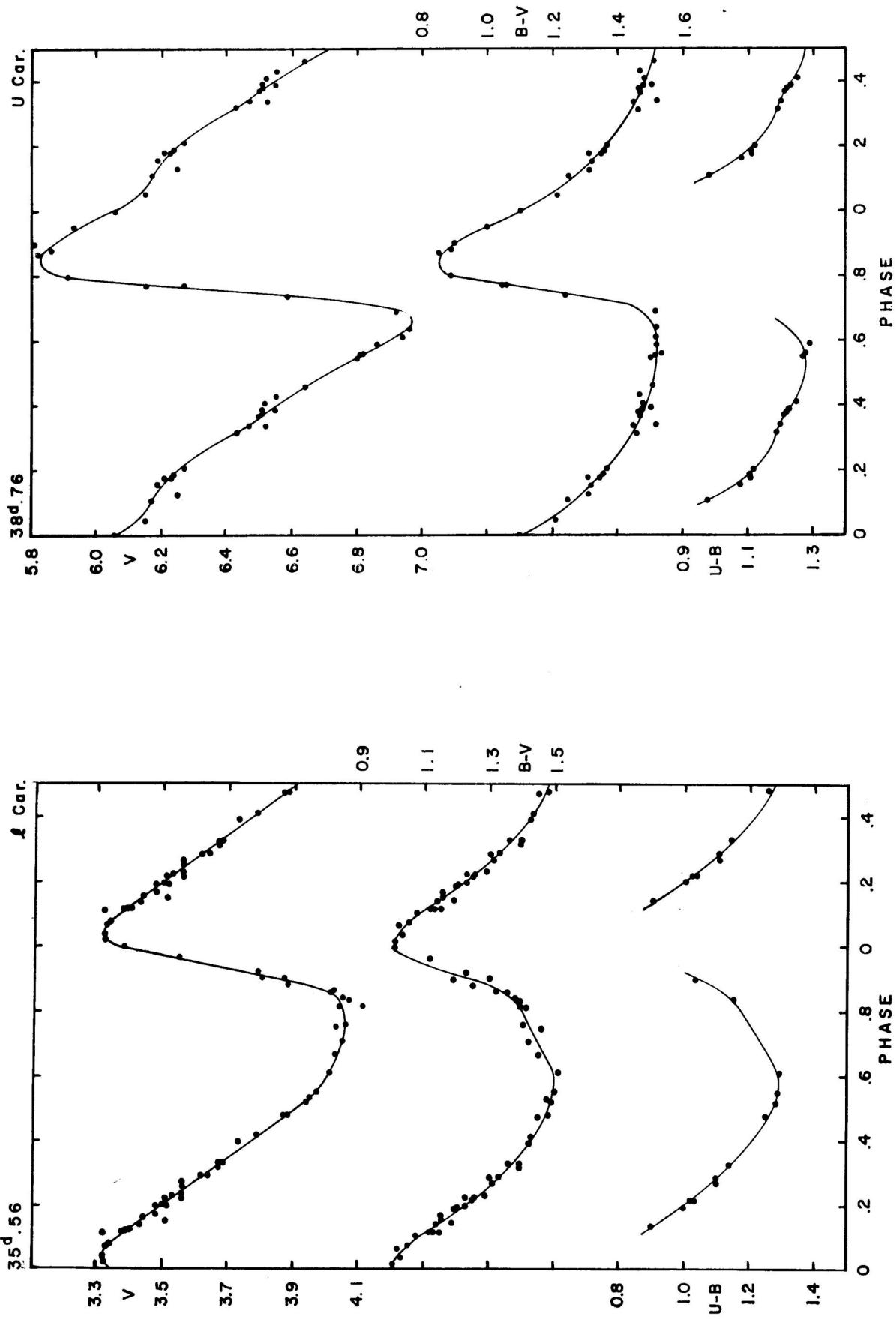


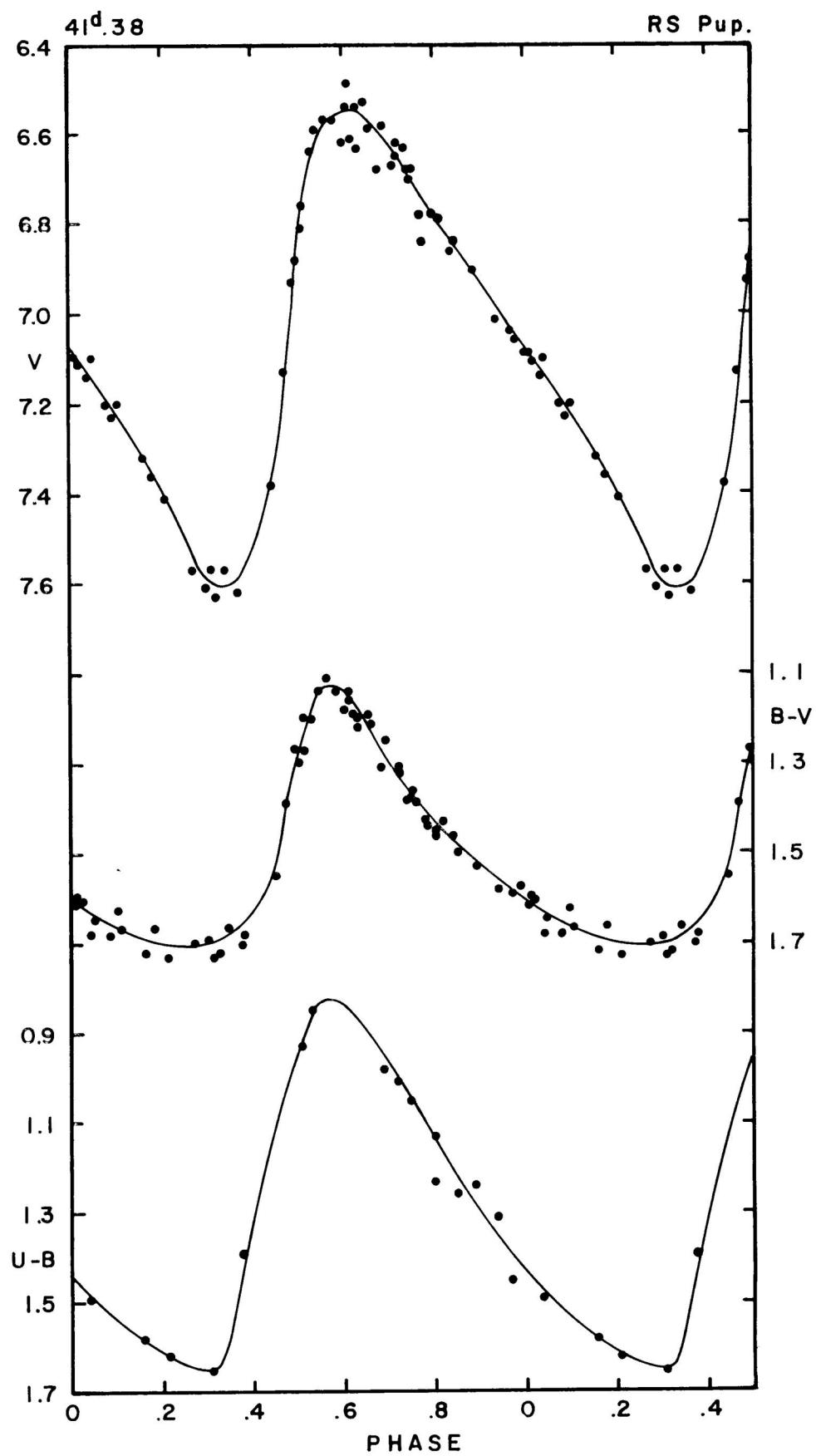


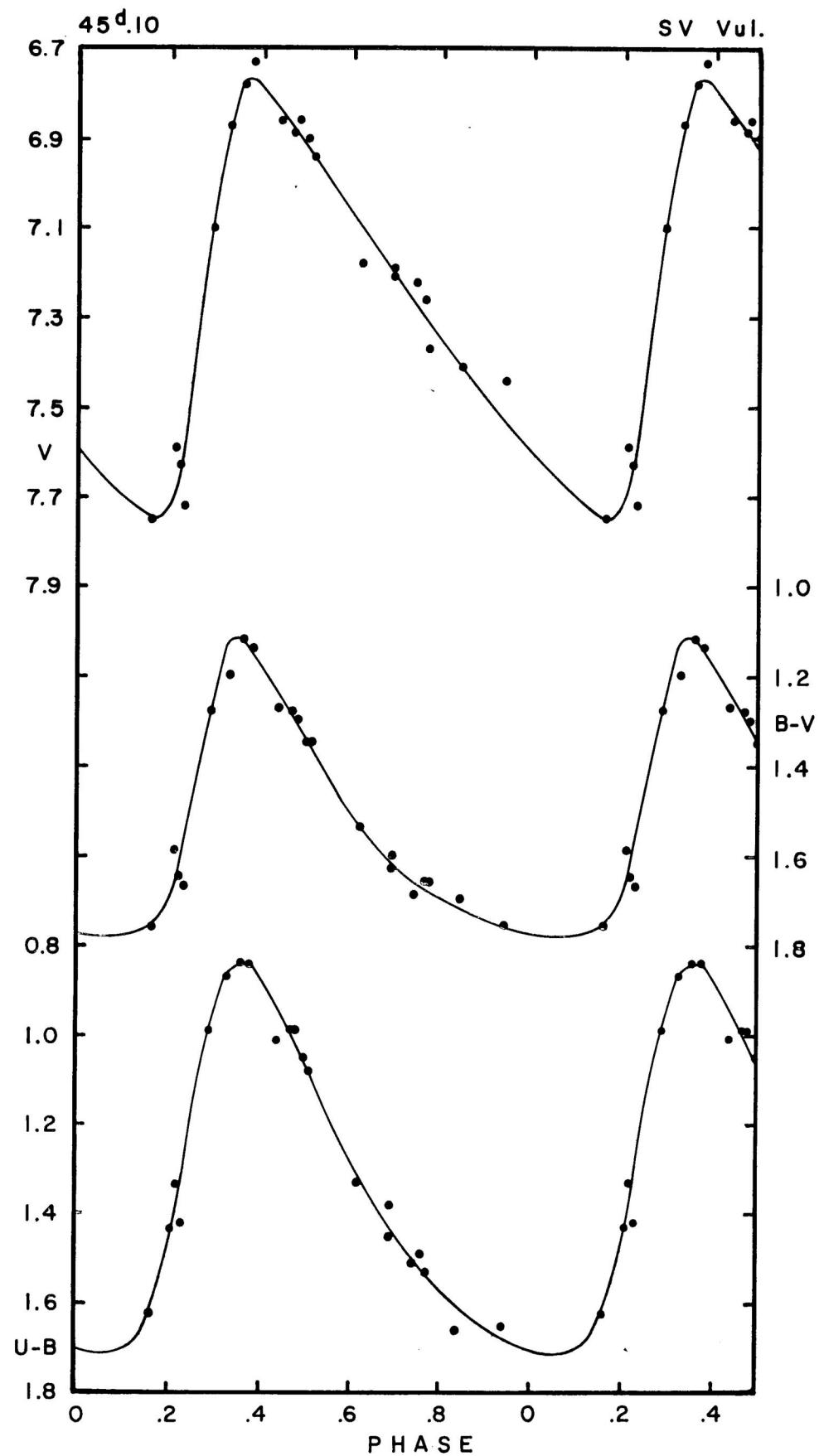












It is important for studies of galactic rotation and structure that the transformations between the Southern and the Northern data be good. Comparisons among the three sets of Southern photometry (Irwin 1961, Walraven, Muller and Oosterhoff 1958 and Eggen, Gascoigne and Burr 1957) indicate no systematic differences between observers, after our transformations have been applied. However, there is a systematic difference of 0.03 mag. in the V magnitude between Irwin (1961) and Walraven et. al. (1958) for the subset of best observed stars south of declination  $-40^{\circ}$ . Occasional residuals between southern observers for individual stars may be as large as 0.1 mag., but the mean differences among the three lists of southern data are not significant.

The distribution, by period, of the Cepheids we have given in our catalogue is shown in Table 3. The last column contains the distribution of Cepheids for which we have provided plotted figures.

TABLE 3  
*Distribution of Cepheids by Period*

<i>Log P(days)</i>	<i>Kukarkin Gen. Catalog (1958)</i>	<i>Tables 1 &amp; 2</i>	<i>Plotted Light Curves</i>
<.1	7	0	0
.1 to .2	9	4	1
.2 to .3	8	4	1
.3 to .4	22	9	1
.4 to .5	30	15	2
.5 to .6	56	26	5
.6 to .7	73	49	12
.7 to .8	85	53	15
.8 to .9	64	48	16
.9 to 1.0	33	22	7
1.0 to 1.1	41	27	9
1.1 to 1.2	59	30	6
1.2 to 1.3	36	24	6
1.3 to 1.4	26	12	4
1.4 to 1.5	21	11	2
1.5 to 1.6	16	8	3
1.6 to 1.7	5	3	2
> 1.7	5	0	0

About 230 of the stars of Table 1 are well observed. Of these we have selected 93, whose light and color curves are shown in the figures following the catalogue. An effort was made to include stars with data from more than one source; stars having superior U-B curves; and stars representing the variety of curve shapes at all periods. Stars which show cycle to cycle variation have been largely omitted from the figures. The figures are arranged in order of period.

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