

Фотоэлектрические наблюдения классических цефеид. II.
Л. Н. Бердников

Photoelectric Observations of Classical Cepheids. II.
by L.N. Berdnikov

Photoelectric photometry in UBV $\bar{R}$ is presented for 66 Cepheids, of which 53 were observed for the first time. The 60-cm reflector of the Mt. Maidanak Observatory of the Tashkent Astronomical Institute was used and 1744 observations were obtained.

Данная работа является второй из серии статей, посвященных фотоэлектрическим наблюдениям классических цефеид. Методика наблюдений и обработки описана в нашей первой статье (Бердников, 1986).

Приведенные в таблице 1 наблюдения выполнены летом 1985 года на 60-см рефлекторе Высокогорной Майданакской экспедиции Астрономического института АН УзССР. Всего для 66 цефеид было получено 1744 наблюдения, причем 53 звезды фотоэлектрически наблюдались впервые.

Автор благодарен В.С.Шевченко за предоставление наблюдательного времени.

Литература.

Бердников Л.Н., 1986, ПЗ 22, № 3, 369.

Саратовский государственный
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11 марта 1986 г.

ТАБЛИЦА 1

JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
BC AQL					EV AQL				
46284.2064	13.030	-	0.867	0.733	46291.1885	12.027	-	1.760	1.415
46285.2122	13.623	-	0.984	0.849	46292.1909	12.059	-	1.754	1.399
46286.2062	12.734	-	0.598	0.583	46293.2241	12.087	-	1.761	1.426
46287.1982	13.119	-	0.883	0.765	46294.1883	12.113	-	1.748	1.419
46288.2109	13.639	-	1.001	0.863	46295.1670	12.126	-	1.797	1.407
46289.2254	12.752	-	0.610	0.579	46296.1749	12.186	-	1.795	1.418
46290.2069	13.150	-	0.956	0.759	46297.1807	12.189	-	1.782	1.429
46291.1968	13.651	-	1.031	0.868	46298.2019	12.268	-	1.775	1.457
46292.1982	12.791	-	0.643	0.597	46299.1681	12.245	-	1.782	1.429
46293.2292	13.216	-	0.930	0.804	46300.1673	12.300	-	1.769	1.422
46294.1947	13.734	-	1.020	0.882	46301.1789	12.304	-	1.735	1.435
46295.1745	12.824	-	0.623	0.613	46302.1763	12.305	-	1.778	1.405
46296.1827	13.256	-	0.961	0.783	46303.1568	12.277	-	1.745	1.407
46297.1905	13.676	-	1.034	0.857	46304.1456	12.262	-	1.714	1.379
46298.2110	12.863	-	0.684	0.669	V526 AQL				
46299.1785	13.314	-	0.905	0.843	46262.3227	12.800	-	1.668	1.313
46300.1774	13.689	-	0.937	0.835	46263.3193	13.237	-	1.771	1.365
46301.1931	12.861	-	0.725	0.642	46265.3070	12.422	-	1.388	1.182
46302.1908	13.331	-	1.064	0.832	46266.3041	12.735	-	1.628	1.304
EV AQL					46267.2831	13.071	-	1.749	1.347
46252.3335	12.026	-	1.726	1.407	46268.2750	13.221	-	1.579	1.313
46253.2953	12.030	-	1.761	1.411	46269.2684	12.297	-	1.347	1.122
46255.3232	12.102	-	1.754	1.417	46270.2842	12.586	-	1.611	1.269
46256.3444	12.129	-	1.773	1.435	46272.2422	13.417	-	1.715	1.358
46257.3528	12.168	-	1.786	1.419	46273.3085	12.285	-	1.295	1.103
46258.3004	12.209	-	1.780	1.445	46274.2749	12.491	-	1.533	1.220
46259.3115	12.225	-	1.793	1.453	46275.2989	12.908	-	1.772	1.323
46260.2905	12.277	-	1.784	1.450	46278.3164	12.454	-	-	1.221
46261.2963	12.285	-	1.777	1.443	46279.3668	12.812	-	1.689	1.316
46262.3183	12.290	-	1.773	1.421	46280.2660	13.309	-	1.759	1.371
46263.3149	12.307	-	1.794	1.418	46283.2235	12.755	-	1.633	1.295
46268.3037	12.301	-	1.730	1.417	46284.1896	13.116	-	1.757	1.350
46266.3013	12.214	-	1.702	1.387	46285.2067	13.052	-	1.527	1.234
46267.2795	12.141	-	1.645	1.376	46286.2025	12.317	-	1.352	1.122
46268.2721	11.985	-	1.581	1.313	46287.1947	12.631	-	1.407	1.242
46269.2640	11.862	-	1.500	1.269	46288.2067	13.025	-	1.759	1.302
46270.2775	11.705	1.084	1.422	1.241	46289.2213	13.336	-	-	1.341
46271.2896	11.628	1.058	1.410	1.207	46290.2027	12.264	-	1.295	1.078
46272.2330	11.564	1.025	1.347	1.164	46291.1913	12.547	-	1.538	1.248
46273.3033	11.585	1.070	1.374	1.184	46292.1937	12.959	-	1.749	1.313
46274.2700	11.557	0.991	1.351	1.205	46294.1918	12.229	-	1.324	1.047
46275.2888	11.564	1.034	1.408	1.193	46295.1703	12.484	-	1.507	1.200
46278.3086	11.598	-	1.547	1.213	46296.1780	12.859	-	1.716	1.298
46279.2614	11.651	-	1.521	1.242	46297.1845	13.374	-	1.797	1.369
46280.2606	11.709	-	1.510	1.285	46298.2077	12.323	-	1.200	1.064
46283.2112	11.816	1.263	1.625	1.323	46299.1732	12.423	-	1.414	1.191
46284.1869	11.823	-	1.648	1.329	46300.1719	12.782	-	1.670	1.287
46285.2043	11.877	-	1.638	1.361	46301.1847	13.204	-	-	1.344
46286.2007	11.904	-	1.689	1.361	46302.1820	12.697	-	1.362	1.121
46287.1929	11.906	-	1.715	1.345	46303.1643	12.364	-	1.392	1.171
46288.2048	11.958	-	1.710	1.371	AN AUR				
46289.2184	11.958	-	1.729	1.366	46283.4768	10.788	-	1.390	1.160
46290.2006	11.998	-	1.748	1.375	46284.4864	10.828	-	1.422	1.138

ТАБЛИЦА 1

JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
AN AUR					FF AUR				
46285.4829	10.574	-	1.258	1.093	46293.4365	13.488	-	0.925	0.872
46287.4568	10.265	-	1.122	0.990	46294.4418	14.062	-	1.190	1.034
46288.4817	10.219	-	1.132	0.998	46295.4250	13.340	-	0.862	0.822
46289.4757	10.143	-	1.110	0.970	46296.4325	14.044	-	1.116	1.026
46291.4629	10.473	-	1.306	1.093	46297.4419	13.172	-	0.848	0.737
46293.4410	10.761	1.378	1.411	1.174	46298.4487	14.032	-	1.083	1.055
46294.4475	10.809	-	1.411	1.158	46299.4192	13.095	-	0.774	0.695
46295.4302	10.702	-	1.282	1.118	46300.4203	13.929	-	1.133	0.974
46296.4385	10.442	-	1.165	1.033	46301.4500	13.437	-	0.840	0.808
46297.4461	10.247	-	1.112	0.971	46302.4468	13.878	-	1.134	1.005
46298.4534	10.259	-	1.125	0.992	46303.4346	13.978	-	1.046	0.960
46299.4241	10.112	-	1.092	0.957	46304.4375	13.845	-	1.077	1.006
46300.4265	10.351	0.772	1.206	1.034	GV AUR				
46301.4544	10.471	-	1.273	1.094	46291.4784	11.835	-	1.163	-
46302.4527	10.560	-	1.387	1.103	46293.4679	12.306	-	1.341	1.207
46303.4409	10.728	-	1.419	1.168	46294.4602	12.461	-	1.406	1.199
46304.4426	10.829	-	1.424	1.171	46295.4440	11.818	-	1.057	0.992
AX AUR					46296.4567	11.773	-	1.121	0.991
46291.4850	12.391	-	1.181	1.040	46297.4609	12.051	-	1.243	1.136
46293.4723	12.203	-	0.993	0.960	46298.4657	12.219	-	1.331	1.153
46295.4475	12.615	-	1.285	1.066	46299.4400	12.431	-	1.395	1.192
46297.4646	12.363	-	1.188	1.036	46300.4427	12.157	-	1.204	1.107
46298.4696	12.603	-	1.258	1.071	46301.4654	11.708	-	1.044	0.985
46299.4444	12.351	-	1.073	0.981	46302.4657	11.962	-	-	1.082
46300.4477	12.323	-	1.131	1.020	46303.4781	12.178	-	1.343	1.156
46301.4688	12.597	-	1.231	1.078	46304.4577	12.403	-	1.390	1.198
46302.4711	12.354	-	1.133	0.952	IN AUR				
46303.4817	12.344	-	1.184	1.030	46296.4496	13.599	-	1.355	1.269
46304.4633	12.563	-	1.241	1.058	46297.4550	13.774	-	1.552	1.304
EW AUR					46298.4605	13.906	-	1.508	1.334
46285.4728	13.263	-	0.992	0.868	46299.4333	14.084	-	1.512	1.414
46287.4386	13.764	-	1.223	1.078	46300.4342	13.712	-	1.387	1.253
46288.4710	13.168	-	0.954	0.892	46301.4600	13.653	-	1.381	1.295
46289.4622	13.645	-	1.166	1.052	46302.4582	13.795	-	1.528	1.323
46290.4784	13.853	-	1.270	1.038	46303.4721	13.953	-	1.526	1.383
46291.4536	13.382	-	1.041	0.976	46304.4499	14.096	-	1.574	1.365
46293.4297	13.364	-	0.975	0.941	V335 AUR				
46294.4309	13.538	-	1.153	1.054	46287.4816	11.941	-	0.943	0.914
46295.4209	13.775	-	1.206	1.100	46291.4741	12.322	-	1.140	1.038
46296.4260	13.108	-	0.976	0.863	46293.4635	12.862	-	-	1.189
46297.4300	13.613	-	1.230	-	46294.4575	12.041	-	1.01	0.932
46298.4449	13.816	-	1.201	1.090	46295.4398	12.554	-	1.270	1.108
46299.4154	13.363	-	1.031	0.997	46296.4536	12.852	-	1.347	1.143
46300.4160	13.699	-	1.236	1.057	46297.4582	11.990	-	0.957	0.924
46301.4462	13.235	-	0.943	0.899	46298.4635	12.392	-	1.181	1.061
46302.4423	13.531	-	1.160	1.061	46299.4369	12.719	-	1.299	1.146
46303.4293	13.774	-	1.228	1.079	46300.4387	12.831	-	1.311	1.161
46304.4330	13.140	-	0.984	0.900	46301.4635	12.210	-	1.049	1.009
FF AUR					46302.4633	12.614	-	1.286	1.129
46287.4511	13.783	-	1.068	0.980	46303.4761	12.836	-	1.340	1.168
46288.4766	14.152	-	1.083	0.948	46304.4547	11.909	-	0.964	0.885
46289.4709	13.729	-	1.017	0.981	AC CAM				
46291.4587	13.651	-	0.969	0.899	46260.4535	12.775	-	1.617	1.472

ПРОДОЛЖЕНИЕ ТАБЛИЦЫ 1

JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
AC CAM					BV CAS				
46269.4520	12.880	-	1.646	1.472	46270.4332	12.682	-	1.716	1.500
46270.4620	12.514	-	1.496	1.350	46272.4353	12.231	-	1.597	1.400
46274.4618	12.670	-	1.542	1.364	46273.4523	12.495	-	1.710	1.491
46283.4497	12.294	-	1.370	1.291	46274.4343	12.669	-	1.765	1.542
46284.4621	12.587	-	1.570	1.390	46275.4467	12.766	-	1.762	1.541
46285.4370	12.730	-	1.601	1.456	46279.4414	12.603	-	1.742	1.496
46287.3991	12.258	-	1.398	1.274	46280.4269	12.728	-	1.797	1.521
46288.4361	12.496	-	1.549	1.369	46283.4182	12.304	-	1.592	1.417
46289.4386	12.733	-	1.610	1.436	46284.4291	12.528	-	1.741	1.468
46290.4532	12.907	-	1.673	1.436	46285.3939	12.694	-	1.751	1.521
46291.4312	12.326	-	1.399	1.278	46287.3630	11.908	-	1.418	1.290
46293.4052	12.699	-	1.665	1.419	46288.3971	12.190	-	1.554	1.357
46294.4062	12.866	-	1.679	1.452	46289.3992	12.437	-	1.688	1.465
46295.3909	12.527	-	1.476	1.343	46290.4231	12.654	-	1.738	1.488
46296.4032	12.418	-	1.459	1.348	46291.3920	12.740	-	1.783	1.514
46297.4141	12.672	-	1.598	1.421	46294.3767	12.327	-	1.655	1.415
46298.4282	12.854	-	1.643	1.472	46295.3624	12.555	-	1.727	1.491
46299.3949	12.683	-	1.541	1.375	46296.3677	12.723	-	1.766	1.526
46300.3742	12.361	-	1.429	1.297	46297.3744	12.727	-	1.736	1.499
46301.4318	12.680	-	1.605	1.439	46298.3896	11.958	-	1.403	1.294
46302.4146	12.809	-	1.697	-	46299.3624	12.230	-	1.570	1.401
46303.4098	12.797	-	1.559	1.410	46300.3461	12.463	-	1.698	1.472
46304.3553	12.295	-	1.350	1.281	46301.3943	12.696	-	1.753	1.537
AM CAM					46302.3863	12.769	-	1.824	1.523
46269.4595	13.263	-	1.487	1.326	46303.3670	12.170	-	1.488	1.333
46283.4570	13.640	-	1.672	1.471	46304.3059	12.077	-	1.501	1.318
46284.4709	13.786	-	1.702	1.486	CE CAS				
46285.4416	13.256	-	1.423	1.337	46259.3904	10.098	0.769	1.139	0.981
46287.4047	13.607	-	1.638	1.467	46260.3858	10.302	0.859	1.243	1.038
46288.4401	13.776	-	1.672	1.496	46266.3988	10.250	0.754	1.193	1.027
46289.4420	13.274	-	1.431	1.340	46267.3781	10.245	0.772	1.141	0.998
46290.4574	13.414	-	1.616	1.382	46268.4317	10.257	0.778	1.187	1.019
46291.4353	13.595	-	1.709	1.432	46269.4048	10.171	0.742	1.128	1.005
46293.4108	13.305	-	1.497	1.352	46270.4092	10.311	-	1.209	1.041
46294.4118	13.399	-	1.582	1.405	46272.4134	10.296	-	1.229	1.031
46295.3990	13.623	-	1.664	1.474	46273.3956	10.372	-	1.241	1.057
46296.4080	13.777	-	1.658	1.500	46274.3939	10.180	-	1.115	0.984
46297.4243	13.277	-	1.439	1.316	46279.3503	10.179	-	1.116	0.964
46298.4314	13.400	-	1.575	1.392	46280.3999	9.991	-	1.037	0.941
46299.3993	13.650	-	1.678	1.472	46283.3885	10.526	-	1.272	1.086
46300.3778	13.775	-	1.693	1.464	46284.4132	10.041	-	1.051	0.928
46301.4349	13.320	-	1.450	1.327	46285.3439	10.044	-	1.077	0.966
46302.4190	13.380	-	1.594	1.376	46286.3246	10.257	-	1.233	1.037
46303.4140	13.641	-	1.641	1.503	46287.3274	10.427	-	1.282	1.086
46304.3615	13.750	-	1.726	1.484	46288.3229	10.530	-	1.280	1.084
BV CAS					46289.3222	9.978	-	1.020	0.921
46259.4474	12.753	-	1.758	1.514	46290.4073	10.118	-	1.119	0.981
46260.4197	11.982	-	1.407	1.280	46291.4048	10.296	-	1.255	1.048
46265.4418	12.357	-	1.556	1.400	46293.3606	10.287	-	1.161	1.019
46266.4456	12.073	-	1.482	1.330	46294.3104	10.077	-	1.097	0.959
46267.4472	12.395	-	1.616	1.471	46295.3104	10.110	-	1.123	0.992
46268.4615	12.561	-	1.732	1.512	46296.3020	10.322	0.843	1.248	1.055
46269.4207	12.731	-	1.750	1.556	46297.3276	10.431	-	1.285	1.066

JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
CE CAS					DL CAS				
46298.3787	10.170	-	1.116	0.984	46269.4113	8.807	0.796	1.135	0.988
46299.3573	10.186	-	1.166	0.983	46270.4233	8.842	0.812	1.190	1.012
46300.2920	10.152	-	1.132	0.995	46272.4297	9.114	0.940	1.334	1.087
46301.3702	10.359	0.825	1.242	1.061	46273.4438	9.258	1.002	1.346	1.101
46302.3746	10.206	0.753	1.163	0.992	46274.4272	9.225	-	1.291	1.083
46302.4901	10.145	-	1.151	0.969	46275.4374	8.934	0.757	1.168	0.999
46303.3402	10.220	-	1.186	0.984	46279.4365	8.992	-	1.272	1.062
46304.4155	10.286	-	1.228	1.020	46280.4199	9.109	0.976	1.327	1.078
46304.4795	10.267	-	1.211	1.022	46283.4076	8.949	0.740	1.154	0.992
CF CAS					46284.4192	8.705	-	1.062	0.932
46259.3933	11.343	0.892	1.303	1.117	46287.3493	8.958	0.888	1.271	1.041
46260.3807	10.856	0.705	1.051	0.973	46288.3893	9.132	-	1.331	1.087
46266.4019	11.034	0.816	1.219	1.047	46289.3937	9.244	-	1.360	1.097
46267.3819	11.258	0.881	1.318	1.103	46290.4097	9.248	-	1.306	1.073
46268.4350	11.349	0.929	1.351	1.126	46291.3811	8.945	0.815	1.173	0.999
46269.4075	11.240	-	1.217	1.090	46293.3763	8.776	0.758	1.149	0.987
46270.4104	10.850	-	1.100	0.978	46294.3671	8.836	0.829	1.193	1.005
46272.4146	11.246	-	1.327	1.098	46295.4819	8.981	0.883	1.277	1.044
46273.3969	11.359	0.941	1.357	1.115	46295.3549	8.971	0.866	1.265	1.047
46274.3950	11.157	-	1.190	1.050	46296.3455	9.112	0.953	1.322	1.087
46279.3522	11.086	-	1.186	-	46297.3435	9.250	1.005	1.366	1.098
46280.4021	10.895	-	1.131	0.980	46298.3482	9.218	0.909	1.317	1.080
46283.3900	11.393	-	1.355	1.119	46299.3500	8.970	0.766	1.185	1.002
46284.4155	11.008	-	1.116	0.997	46300.3370	8.693	0.711	1.070	0.932
46285.3461	10.943	-	1.138	1.005	46301.3831	8.816	0.797	1.125	0.995
46286.3267	11.141	-	1.262	1.072	46302.3778	8.845	0.794	1.207	0.994
46287.3296	11.276	-	1.340	1.128	46302.4938	8.847	-	1.211	0.995
46288.3252	11.405	-	1.374	1.117	46303.3253	8.976	-	1.255	1.041
46289.3242	10.965	-	1.119	0.987	46304.2909	9.101	0.919	1.337	1.064
46290.4051	10.982	-	1.141	1.004	46304.4846	9.121	0.954	1.352	1.072
46291.4059	11.153	-	1.290	1.090	EX CAS				
46293.3628	11.385	-	1.327	1.133	46253.4488	13.018	-	1.623	1.364
46294.3132	10.903	-	1.092	0.971	46255.4435	12.551	-	1.370	1.245
46295.3125	10.976	-	1.174	1.024	46256.4187	12.784	-	1.510	1.336
46296.3058	11.186	0.880	1.280	1.094	46257.4301	12.962	-	1.626	1.347
46297.3285	11.326	-	1.337	1.115	46258.4152	13.047	-	1.592	1.372
46298.3799	11.381	-	1.327	1.126	46259.4114	12.472	-	1.329	1.220
46299.3584	10.852	-	1.072	0.955	46260.3597	12.735	-	1.475	-
46300.2936	11.009	-	1.175	1.026	46261.3611	12.949	-	1.576	1.385
46301.3801	11.228	0.995	1.294	1.098	46263.4331	12.573	-	1.346	1.230
46302.3761	11.339	-	1.392	1.121	46265.4071	12.907	-	1.557	1.383
46302.4916	11.362	-	1.388	1.114	46266.3856	13.002	-	1.642	1.393
46303.3414	11.334	-	1.304	1.093	46267.4161	12.857	-	1.473	1.320
46304.4166	10.836	-	1.097	0.963	46268.4011	12.550	-	1.393	-
46304.4815	10.849	-	1.107	0.953	46269.3705	12.813	-	1.548	1.359
DL CAS					46270.3967	13.000	-	1.582	1.387
46259.4373	8.936	0.784	1.155	1.004	46272.3914	12.492	-	1.360	1.214
46260.4104	8.704	0.736	1.070	0.927	46273.4214	12.763	-	1.483	1.343
46263.4504	8.995	0.909	1.251	1.051	46274.4021	12.950	-	1.603	1.368
46265.4320	9.284	1.112	1.361	1.114	46275.3950	13.106	-	1.569	1.439
46266.4361	9.216	0.917	1.310	1.075	46279.4267	13.080	-	-	1.400
46267.4371	8.966	0.765	1.158	1.002	46280.3847	12.786	-	1.459	1.301
46268.4488	8.683	0.757	1.062	-	46283.3782	13.017	-	1.598	1.415

ПРОДОЛЖЕНИЕ ТАБЛИЦЫ 1

JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
FO CAS					FW CAS				
46255.4493	14.067	-	1.232	1.308	46274.4140	12.661	-	1.644	1.415
46256.4270	14.282	-	1.431	1.320	46275.4271	12.647	-	1.614	1.386
46257.4220	14.512	-	1.439	1.386	46279.3656	12.495	-	1.535	1.383
46258.4070	14.693	-	1.503	1.433	46280.3964	12.606	-	1.687	1.379
46259.4032	14.664	-	1.420	1.352	46283.3844	12.186	-	1.407	1.245
46260.3635	14.001	-	1.219	1.178	GL CAS				
46261.3669	14.070	-	1.263	1.202	46260.4322	12.554	-	1.198	1.090
46263.4386	14.384	-	1.451	1.318	46265.4563	12.902	-	1.364	1.241
46265.4111	14.711	-	1.529	1.392	46267.4583	12.659	-	1.268	1.083
46266.3896	14.609	-	1.442	1.337	46269.4332	12.859	-	1.380	1.217
46267.4198	13.870	-	1.214	1.140	46270.4460	13.055	-	1.423	1.256
46268.4047	14.074	-	1.300	1.223	46272.4441	12.544	-	1.211	1.096
46269.3759	14.059	-	1.378	1.251	46274.4459	13.050	-	1.412	1.255
46270.4007	14.409	-	1.479	1.355	46275.4575	12.678	-	1.216	1.098
46272.4033	14.693	-	1.591	1.345	46279.4493	12.724	-	1.261	1.160
46273.4254	14.501	-	1.374	1.341	46280.4431	12.522	-	1.206	1.090
46274.4063	13.873	-	1.203	1.181	46283.4320	12.752	-	1.246	1.128
46275.4191	14.072	-	1.316	1.294	46284.4450	12.546	-	1.182	1.111
46284.3801	14.527	-	1.454	1.362	46285.4210	12.859	-	1.371	1.246
46285.3547	14.657	-	1.586	1.371	46287.3803	12.817	-	1.308	1.125
46287.3036	14.749	-	1.336	1.248	46288.4211	12.526	-	1.205	1.079
46288.3677	13.992	-	1.249	1.184	46289.4223	12.858	-	1.369	1.241
46289.3630	14.045	-	1.322	1.235	46290.4380	13.072	-	1.427	1.213
46290.3719	14.330	-	1.363	1.288	46291.4174	12.771	-	1.262	1.136
46291.3444	14.493	-	1.483	1.343	46293.3910	12.833	-	1.399	1.167
46292.3399	14.760	-	1.558	1.449	46294.3883	13.050	-	1.439	1.249
46294.3264	14.053	-	1.232	1.160	46295.3783	12.870	-	1.257	1.163
46295.3225	14.025	-	1.277	1.227	46296.3831	12.505	-	1.198	1.103
46296.3123	14.088	-	1.352	1.294	46297.3988	12.822	-	1.372	1.181
46297.2811	14.402	-	1.407	1.404	46298.4120	13.037	-	1.441	1.232
46298.3182	14.550	-	1.485	1.431	46299.3782	12.876	-	1.293	1.154
46299.3121	14.764	-	1.641	1.468	46300.3589	12.492	-	1.188	1.080
46300.3036	14.584	-	1.477	1.403	46301.4181	12.866	-	1.371	1.196
46301.3378	13.894	-	1.194	1.146	46302.4018	13.025	-	1.459	1.216
46302.3239	14.102	-	1.310	1.126	46303.3899	12.874	-	1.293	1.171
46303.3066	14.060	-	1.244	1.274	46304.3314	12.461	-	1.158	1.052
46304.3819	14.416	-	1.468	1.323	GM CAS				
FW CAS					46284.4492	11.659	-	1.731	1.584
46253.4384	12.356	-	1.530	1.325	46285.4246	11.729	-	1.816	1.610
46256.4443	12.689	-	1.637	1.407	46287.3848	11.916	-	1.938	1.690
46257.4162	12.384	-	1.482	1.298	46288.4250	12.067	-	1.923	1.732
46258.3994	12.189	-	1.396	1.252	46289.4271	12.153	-	1.931	1.735
46259.3993	12.316	-	1.509	1.315	46290.4419	11.976	-	1.839	1.640
46260.3603	12.441	-	1.585	1.355	46291.4201	11.673	-	1.734	1.581
46263.4444	12.473	-	1.494	1.323	46293.3935	11.788	-	1.843	1.639
46265.4191	12.326	-	1.501	1.318	46294.3931	11.854	-	1.917	1.655
46266.3962	12.390	-	1.564	1.358	46295.3810	11.985	-	1.923	1.693
46267.3887	12.589	-	1.615	1.400	46296.3866	12.119	-	1.968	1.726
46268.4111	12.684	-	1.664	1.411	46297.4018	12.113	-	1.915	1.707
46269.3835	12.608	-	1.525	1.405	46298.4150	11.825	-	1.805	1.625
46270.4073	12.201	-	1.401	1.244	46299.3809	11.629	-	1.742	1.555
46272.4114	12.377	-	1.535	1.348	46300.3621	11.750	-	1.790	1.630
46273.4338	12.531	-	1.577	1.405	46301.4207	11.863	-	1.824	1.679

JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
GM CAS					HK CAS				
46302.4046	11.931	-	1.933	1.678	46296.3402	14.469	-	1.363	0.962
46303.3929	12.067	-	1.959	1.707	46297.3356	14.663	-	1.194	0.897
46304.3390	12.140	-	1.964	1.713	46298.3445	14.138	-	1.035	0.858
GO CAS					46299.3410	14.777	-	1.331	0.917
46260.4365	13.190	-	1.628	1.440	46300.3304	13.859	-	0.820	0.692
46269.4388	12.943	-	1.494	1.393	46301.3693	14.458	-	1.174	0.985
46270.4514	13.265	-	1.700	1.485	46302.3532	14.731	-	1.119	0.867
46272.4467	12.942	-	1.512	1.350	46303.3185	14.047	-	-	0.822
46274.4510	13.403	-	1.729	1.492	IO CAS				
46275.4616	13.120	-	1.568	1.412	46259.4534	14.078	-	1.250	1.178
46280.4492	13.335	-	1.706	1.503	46260.4233	13.502	-	1.034	0.967
46283.4378	13.274	-	1.703	1.499	46269.4249	13.873	-	1.327	1.126
46284.4530	13.475	-	1.752	1.526	46270.4369	14.072	-	1.325	1.158
46285.4271	12.916	-	1.481	1.347	46272.4381	13.351	-	1.037	0.948
46287.3878	13.410	-	1.736	1.516	46273.4551	13.572	-	1.182	1.064
46288.4283	13.101	-	1.587	1.378	46274.4381	13.735	-	1.252	1.108
46289.4300	13.118	-	1.618	1.424	46275.4507	13.959	-	1.335	1.146
46290.4444	13.414	-	1.748	1.486	46280.4344	13.842	-	1.208	1.171
46291.4231	13.347	-	1.650	1.471	46283.4237	13.298	-	1.011	0.913
46293.3964	13.350	-	1.711	1.520	46284.4324	13.568	-	1.153	1.064
46294.3957	13.423	-	1.736	1.477	46285.4024	13.603	-	1.229	1.076
46295.3838	12.929	-	1.504	1.351	46287.3666	14.083	-	1.371	1.153
46296.3894	13.280	-	1.726	1.503	46288.4005	13.523	-	-	0.987
46297.4050	13.455	-	1.702	1.527	46289.4023	13.372	-	1.078	0.981
46298.4173	12.932	-	1.500	1.361	46290.4265	13.593	-	1.172	1.055
46299.3841	13.212	-	1.694	1.471	46291.3956	13.790	-	1.238	1.132
46300.3646	13.408	-	1.749	1.486	46294.3798	13.275	-	0.979	0.921
46301.4233	13.125	-	1.532	1.436	46295.3665	13.467	-	1.114	1.008
46302.4075	13.121	-	1.652	1.435	46296.3710	13.605	-	1.186	1.098
46303.3953	13.411	-	1.733	1.531	46297.3782	13.877	-	1.265	1.151
46304.3427	13.344	-	1.663	1.439	46298.3925	14.098	-	1.304	1.182
HK CAS					46299.3658	13.699	-	1.141	1.012
46265.4271	13.934	-	0.870	0.743	46300.3498	13.315	-	0.997	0.941
46266.4305	14.441	-	1.278	0.942	46301.3978	13.623	-	1.153	1.119
46267.4318	14.683	-	1.076	0.830	46302.3903	13.716	-	1.232	1.108
46268.4453	14.110	-	1.080	0.826	46303.3704	13.938	-	1.344	1.167
46269.3944	14.021	-	1.351	0.984	46304.3151	14.056	-	-	1.154
46270.4180	13.890	-	0.857	0.747	LT CAS				
46272.4231	14.686	-	1.126	0.881	46260.4454	12.541	-	1.292	1.170
46273.4400	14.127	-	1.076	0.853	46269.4459	12.918	-	1.391	1.249
46274.4205	14.062	-	1.295	1.029	46270.4564	12.013	-	1.031	0.992
46275.4324	13.901	-	0.843	0.730	46272.4510	12.559	-	1.336	1.207
46280.4142	13.907	-	0.796	0.751	46274.4562	12.951	-	1.389	1.278
46284.4027	14.863	-	1.341	0.983	46275.4669	12.824	-	1.351	1.231
46285.3770	13.879	-	0.795	0.741	46280.4554	12.965	-	1.451	1.290
46287.3437	14.723	-	1.094	0.937	46283.4440	12.348	-	1.222	1.091
46288.3836	14.132	-	1.052	0.850	46284.4575	12.645	-	1.302	1.245
46289.3878	14.803	-	1.370	0.897	46285.4328	12.799	-	1.401	1.281
46290.3986	13.901	-	0.816	0.695	46287.3932	12.695	-	1.318	1.177
46291.3771	14.428	-	1.263	0.911	46288.4317	12.060	-	1.094	0.987
46293.3696	14.108	-	1.076	0.910	46289.4353	12.388	-	1.223	1.143
46294.3550	14.787	-	1.367	0.955	46290.4499	12.645	-	1.355	1.196
46295.3483	13.872	-	0.784	0.722	46291.4284	12.793	-	1.368	1.245

ПРОДОЛЖЕНИЕ ТАБЛИЦЫ 1

JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
LT CAS					OP CAS				
46293.4018	12.580	-	1.264	1.151	46289.3832	11.939	-	1.684	1.404
46294.4024	12.105	-	1.099	1.004	46291.3737	12.206	-	1.750	1.449
46295.3877	12.405	-	1.237	1.138	46293.3669	11.659	-	1.514	1.318
46296.4007	12.615	-	1.359	1.210	46294.3518	11.869	-	1.648	1.382
46297.4104	12.813	-	1.418	1.266	46295.3463	12.003	-	1.702	1.431
46298.4225	12.981	-	1.473	1.276	46296.3373	12.182	-	1.748	1.468
46299.3916	12.480	-	1.177	1.115	46297.3328	12.106	-	1.672	1.417
46300.3710	12.133	-	1.083	1.020	46298.3422	11.605	-	1.436	1.292
46301.4284	12.475	-	1.227	1.174	46299.3378	11.754	-	1.573	1.348
46302.4111	12.632	-	1.383	1.214	46300.3282	11.943	-	1.693	1.400
46303.4012	12.842	-	1.442	1.256	46301.3616	12.089	-	1.740	1.433
46304.3509	12.976	-	1.461	1.248	46302.3498	12.216	-	1.783	1.452
NP CAS					46304.2878	11.626	-	1.494	1.265
46284.3956	13.850	-	-	1.722	OZ CAS				
46285.3657	13.926	-	1.891	1.692	46259.4426	13.628	-	2.209	2.260
46287.3108	13.230	-	1.612	1.495	46260.4148	13.766	-	2.231	2.225
46288.3747	13.470	-	1.729	1.586	46265.4365	13.783	-	2.293	2.233
46289.3780	13.609	-	1.886	1.616	46267.4407	13.165	-	2.017	2.071
46290.3867	13.795	-	1.837	1.669	46268.4541	13.340	-	2.125	2.127
46291.3647	13.894	-	1.869	1.704	46269.4143	13.598	-	2.253	2.219
46294.3468	13.406	-	1.719	1.570	46270.4268	13.745	-	2.270	2.258
46295.3434	13.556	-	1.811	1.622	46272.4322	13.134	-	2.078	2.053
46296.3334	13.718	-	1.826	1.686	46273.4481	13.334	-	2.197	2.137
46297.3246	13.873	-	1.876	1.689	46274.4308	13.559	-	2.294	2.195
46298.3393	13.852	-	1.837	1.704	46275.4409	13.708	-	2.337	2.222
46299.3344	13.282	-	1.614	1.512	46283.4122	13.318	-	2.044	2.109
46300.3254	13.355	-	1.683	1.577	46284.4227	13.552	-	2.241	2.166
46301.3579	13.564	-	1.796	1.665	46285.3857	13.714	-	2.376	2.215
46302.3456	13.719	-	1.872	1.650	46287.3589	13.233	-	2.081	2.045
46303.3628	13.854	-	1.878	1.706	46288.3919	13.302	-	2.098	2.113
46304.4113	13.842	-	1.855	1.668	46289.3965	13.534	-	2.211	2.204
OP CAS					46290.4174	13.711	-	2.291	2.195
46256.4548	11.958	-	1.685	1.415	46291.3851	13.782	-	2.239	2.216
46259.4346	11.707	-	1.499	1.316	46294.3710	13.497	-	2.193	2.172
46260.4072	11.680	1.208	1.532	1.298	46295.3583	13.667	-	2.328	2.215
46263.4569	12.201	-	1.740	1.467	46296.3603	13.808	-	2.322	2.236
46265.4232	11.636	-	1.445	1.283	46297.3680	13.351	-	2.114	2.095
46266.4269	11.784	-	1.617	1.354	46298.3856	13.227	-	2.084	2.075
46267.4261	11.998	-	1.693	1.433	46299.3544	13.472	-	2.218	2.166
46268.4415	12.101	-	1.733	1.450	46300.3400	13.648	-	2.304	2.215
46269.3903	12.202	-	1.738	1.472	46301.3865	13.808	-	2.283	2.214
46270.4151	11.739	-	1.497	1.323	46302.3808	13.400	-	2.144	2.098
46272.4200	11.878	-	1.653	1.394	46303.3314	13.190	-	2.060	2.056
46273.4361	12.042	-	1.685	1.442	46304.2989	13.422	-	2.317	2.142
46274.4174	12.101	-	1.732	1.481	PW CAS				
46275.4300	11.994	-	1.649	1.382	46253.4157	12.991	-	1.266	1.149
46279.4330	12.111	-	1.757	1.447	46255.4351	13.165	-	1.371	1.246
46280.4080	12.205	-	1.722	1.443	46256.4077	13.287	-	1.447	1.241
46283.4043	11.886	-	1.637	1.387	46257.4400	12.959	-	1.216	1.124
46284.3993	12.040	-	1.755	1.431	46258.4245	12.887	-	1.266	1.168
46285.3740	12.195	-	1.761	1.459	46259.4218	13.135	-	1.363	1.238
46287.3392	11.603	-	1.468	1.290	46260.3491	13.307	-	1.427	1.249
46288.3807	11.788	-	1.629	1.325	46261.3536	13.049	-	1.252	1.165

ПРОДОЛЖЕНИЕ ТАБЛИЦЫ 1

JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
PW CAS					V342 CAS				
46263.4250	13.153	-	1.407	1.234	46301.3173	12.116	-	1.370	1.170
46265.3940	13.003	-	1.266	1.142	46302.2922	12.241	-	1.411	1.186
46266.3781	12.873	-	1.257	1.124	46303.2916	11.929	-	1.228	1.087
46267.4077	13.181	-	1.378	1.248	46304.2760	11.886	-	1.258	1.096
46268.3927	13.314	-	1.402	1.273	V407 CAS				
46269.3649	13.036	-	1.266	1.165	46253.4536	12.182	-	1.416	1.220
46270.3866	12.887	-	1.244	1.132	46255.4400	11.760	-	1.211	1.087
46272.3836	13.319	-	1.433	1.266	46256.4151	11.942	-	1.337	1.153
46273.3870	13.010	-	1.240	1.158	46257.4365	12.121	-	1.424	1.195
46274.3750	12.876	-	1.238	1.142	46258.4193	12.198	-	1.449	1.218
46275.3865	13.152	-	1.364	1.245	46259.4166	11.875	-	1.247	1.105
46279.4032	13.185	-	1.337	1.255	46260.3580	11.830	-	1.282	1.089
46280.3725	13.292	-	1.472	1.244	46261.3582	12.041	-	1.374	1.179
46283.3653	13.163	-	1.371	1.237	46263.4299	12.151	-	1.380	1.181
V342 CAS					46265.4045	11.935	-	1.334	1.161
46253.4008	11.908	-	1.258	1.105	46266.3829	12.089	-	1.419	1.202
46255.4239	12.254	-	1.381	1.196	46267.4137	12.218	-	1.451	1.214
46256.3974	11.036	-	1.153	1.073	46268.3984	11.936	-	1.295	1.119
46257.4474	11.934	-	1.289	1.136	46269.3683	11.798	-	1.275	1.089
46258.4375	12.124	-	1.389	1.165	46270.3938	11.993	-	1.388	1.168
46259.4292	12.247	-	1.390	1.206	46272.3884	12.196	-	1.415	1.192
46260.3414	11.843	-	1.168	1.043	46273.4190	11.765	-	1.225	1.075
46261.3447	11.931	0.906	1.260	1.118	46274.3994	11.898	-	1.314	1.124
46263.4175	12.263	-	1.368	1.188	46275.3912	12.081	-	1.421	1.207
46265.3795	11.970	0.859	1.280	1.151	46279.4107	11.969	-	1.399	1.139
46266.3724	12.144	-	1.372	1.195	46280.3792	12.127	-	1.425	1.178
46267.4005	12.266	-	1.396	1.191	46283.3724	11.861	-	1.305	1.108
46268.3842	11.749	0.791	1.146	1.047	CN CEP				
46269.3559	11.981	0.879	1.272	1.165	46284.3738	12.666	-	1.945	1.703
46270.3800	12.176	1.041	1.370	1.185	46285.3366	12.469	-	1.865	1.641
46272.3759	11.749	0.772	1.162	1.037	46286.3083	12.178	-	1.716	1.559
46273.3819	11.997	-	1.302	1.146	46287.2931	12.136	-	1.680	1.573
46274.3671	12.193	-	1.398	1.199	46288.3627	12.134	-	1.756	1.567
46275.3789	12.228	-	1.348	1.184	46289.3584	12.216	-	1.797	1.605
46279.3910	12.215	-	1.361	1.139	46290.3681	12.443	-	1.874	1.671
46280.3633	11.761	-	1.173	1.045	46291.3277	12.540	-	1.932	1.718
46283.3855	12.196	-	1.312	1.170	46294.2952	12.609	-	1.892	1.673
46284.3672	11.801	-	1.189	1.064	46295.2954	12.341	-	1.802	1.609
46285.3279	12.051	-	1.283	1.165	46296.2867	12.124	-	1.698	1.569
46286.3014	12.231	-	1.385	1.200	46297.2774	12.153	-	1.747	1.566
46287.2863	12.170	-	1.299	1.165	46298.3144	12.126	-	1.751	1.591
46288.3579	11.824	-	1.238	1.061	46299.2807	12.332	-	1.835	1.651
46289.3538	12.074	-	1.346	1.167	46300.2755	12.484	-	1.895	1.707
46290.3620	12.251	-	1.379	1.186	46301.3203	12.598	-	1.977	1.729
46291.3243	12.109	-	1.270	1.149	46302.2998	12.714	-	1.973	1.746
46292.3268	11.818	-	1.230	1.072	46303.2986	12.667	-	1.938	1.707
46294.2888	12.236	-	1.398	1.172	46304.2825	12.472	-	1.833	1.630
46295.2899	12.066	-	1.262	1.118	IY CEP				
46296.2816	11.841	-	1.228	1.083	46252.4489	12.672	-	1.476	1.239
46297.2707	12.093	-	1.363	1.177	46253.3702	12.842	-	1.575	1.295
46298.3078	12.242	-	1.388	1.218	46255.4112	13.159	-	1.669	1.352
46299.2756	12.031	-	1.247	1.128	46256.3861	12.770	-	1.452	1.242
46300.2727	11.881	-	1.219	1.090	46257.4552	12.565	-	1.376	1.216

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JD HEL 2400000+	V	U-B	R-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
IY CEP					KO CEP				
46258.4444	12.740	-	1.512	1.292	46288.3303	13.979	-	1.825	1.697
46259.3379	12.898	-	1.600	1.315	46289.3359	14.194	-	2.018	1.718
46260.3202	13.074	-	1.608	1.359	46290.3275	14.351	-	2.311	1.750
46261.3286	13.164	-	1.565	1.354	46291.2840	14.342	-	1.969	1.773
46263.3031	12.603	-	1.402	1.225	46292.2942	13.820	-	1.825	1.591
46265.3483	12.961	-	1.560	1.352	46294.2614	14.215	-	2.060	1.696
46266.3536	13.087	-	1.646	1.366	46295.2741	14.393	-	1.991	1.785
46267.3545	13.042	-	1.561	1.323	46296.2612	14.081	-	1.836	1.686
46268.3546	12.500	-	1.309	1.153	46297.2577	13.923	-	1.870	1.623
46269.3225	12.651	-	1.441	1.214	46298.2688	14.172	-	1.997	1.731
46270.3166	12.853	-	1.543	1.318	46299.2507	14.316	-	1.985	1.752
46272.3565	13.128	-	1.696	1.341	46300.2558	14.386	-	1.952	1.782
46273.3548	12.818	-	1.421	1.242	46301.2996	13.861	-	1.753	1.622
46274.3298	12.543	-	1.400	1.203	46302.3119	14.058	-	1.901	1.626
46275.3526	12.739	-	1.495	-	46303.2677	14.237	-	2.110	1.763
46279.3708	12.646	-	1.376	1.193	46304.2546	14.358	-	1.987	1.729
46280.3329	12.588	-	1.411	1.203	MU CEP				
46283.3347	13.134	-	1.620	1.383	46252.4415	12.397	-	1.457	1.269
46284.3298	13.021	-	1.569	1.272	46253.3494	12.517	-	1.498	1.280
46286.2770	12.667	-	1.452	1.230	46255.4073	12.176	-	1.342	1.223
46288.3370	13.024	-	1.617	1.326	46256.3820	12.423	-	1.475	1.287
46289.3290	13.176	-	1.634	1.382	46257.3839	12.541	-	1.470	1.301
46290.3362	12.838	-	1.427	1.248	46258.4490	11.910	-	1.198	1.114
46291.2772	12.528	-	1.331	1.168	46259.3351	12.221	-	1.389	1.228
46292.2876	12.741	-	1.487	1.273	46260.3151	12.496	-	1.488	1.297
46294.2541	13.065	-	1.643	1.344	46261.3260	12.482	-	1.398	1.262
46295.2641	13.158	-	1.612	1.361	46263.3800	12.323	-	1.419	1.272
46296.2515	12.673	-	1.355	1.196	46265.3440	12.247	-	1.310	1.200
46297.2503	12.611	-	1.383	1.216	46266.3511	12.005	-	1.286	1.158
46298.2620	12.820	-	1.505	1.309	46267.3516	12.361	1.271	1.456	1.267
46299.2423	12.956	-	1.598	1.337	46268.3638	12.551	-	1.483	1.315
46300.2454	13.118	-	1.626	1.371	46269.3481	11.946	-	1.198	1.098
46301.2909	13.043	-	1.557	1.318	46270.3258	12.120	-	1.296	1.206
46302.3040	12.525	-	1.330	1.170	46272.3644	12.547	-	1.498	1.308
46303.2593	12.642	-	1.454	1.211	46273.3580	11.870	-	1.206	1.084
46304.2433	12.838	-	1.539	1.290	46274.3600	12.217	-	1.402	1.218
KO CEP					46275.3588	12.476	-	1.467	1.283
46259.3445	14.340	-	1.881	1.717	46279.3778	12.561	-	1.482	1.304
46260.3282	13.837	-	1.775	1.591	46280.3424	12.332	-	1.327	1.234
46261.3347	14.057	-	1.908	1.669	46283.3402	12.560	-	1.483	1.326
46263.3879	14.348	-	2.045	1.738	V347 CYG				
46265.3538	13.904	-	1.861	1.612	46252.4101	12.441	-	1.664	1.505
46266.3598	14.103	-	1.994	1.722	46253.3205	12.174	-	1.607	1.431
46267.3582	14.312	-	2.026	1.775	46255.3660	12.199	-	1.652	1.470
46268.3605	14.362	-	2.088	1.764	46256.3112	12.454	-	1.788	1.542
46269.3187	13.835	-	1.766	1.573	46257.3239	12.594	-	1.835	1.581
46270.3223	14.009	-	1.967	1.665	46258.2734	12.764	-	1.861	1.604
46272.3519	14.364	-	2.120	1.764	46259.2740	12.857	-	1.830	1.648
46273.3476	14.125	-	1.911	1.654	46260.2473	12.744	-	1.794	1.560
46275.3472	14.081	-	-	1.703	46261.2649	12.371	-	1.638	1.489
46284.3359	14.081	-	1.963	1.666	46263.2491	12.262	-	1.640	1.475
46286.2722	14.401	-	-	1.746	46265.2250	-	-	1.779	1.569
46287.2630	13.951	-	1.903	1.619	46266.2421	12.606	-	1.842	1.602

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JD HEL. 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
V347 CYG					V386 CYG				
46267.3253	12.817	-	1.903	1.616	46296.2384	9.646	1.271	1.626	1.386
46268.3299	12.833	-	1.856	1.604	46297.2412	9.815	-	1.701	1.435
46269.3039	12.628	-	1.773	1.520	46298.2500	9.972	-	1.712	1.465
46270.3566	12.241	-	1.597	1.432	46299.2342	9.556	1.137	1.506	1.325
46272.3283	12.205	-	1.600	1.465	46300.2366	9.336	1.127	1.458	1.273
46273.2693	12.327	-	1.751	1.492	46300.3925	9.370	-	1.484	1.283
46274.2275	12.507	-	1.797	1.548	46301.2427	9.586	1.241	1.589	1.383
46275.1939	12.645	-	1.864	1.588	46302.2575	9.757	-	1.724	1.405
46278.2411	12.581	-	1.764	1.528	46303.2374	9.928	1.432	1.738	1.442
46279.3018	12.726	-	1.575	1.428	46304.2284	9.726	1.183	1.622	1.345
46280.2339	12.291	-	1.654	1.467	V492 CYG				
V356 CYG					46252.2625	12.164	-	1.571	1.378
46252.4286	12.367	-	1.319	1.160	46253.2440	12.235	-	1.602	1.433
46255.4004	12.644	-	1.406	1.213	46255.3457	12.457	-	1.700	1.496
46256.3301	12.025	-	1.165	1.030	46256.2876	12.569	-	1.777	1.512
46257.3340	12.324	-	1.314	1.157	46257.3051	12.698	-	1.812	1.534
46258.2811	12.578	-	1.412	1.200	46258.2533	12.545	-	1.727	1.474
46259.2846	12.732	-	1.497	1.276	46259.2552	12.277	-	1.585	1.433
46260.2521	12.754	-	1.404	1.239	46260.2258	12.186	-	1.563	1.383
46261.2768	12.039	-	1.150	1.027	46261.2490	12.255	-	1.638	1.428
46263.2581	12.560	-	1.400	1.255	46262.2218	12.336	-	1.713	1.478
46265.2386	12.777	-	1.463	1.234	46263.2274	12.454	-	1.712	1.513
46266.2497	12.053	-	1.167	1.016	46265.2075	12.640	-	1.852	1.527
46267.3338	12.286	-	1.299	1.126	46266.2255	12.397	-	1.703	1.452
46268.3364	12.542	-	1.422	1.210	46267.2317	12.197	-	1.573	1.399
46269.3138	12.725	-	1.462	1.266	46268.2449	12.222	-	1.599	1.422
46270.3643	12.731	-	1.450	1.227	46269.2255	12.290	-	1.657	1.470
46272.3453	12.274	-	1.274	1.139	46270.2379	12.368	-	1.708	1.503
46273.2809	12.524	-	1.410	1.184	46272.3101	12.646	-	1.775	1.563
46274.2413	12.691	-	1.437	1.246	46273.2473	12.591	-	1.757	1.495
46275.2538	12.777	-	1.485	1.230	46275.2305	12.186	-	1.589	1.412
46278.2759	12.424	-	1.462	1.168	46277.1854	12.244	-	1.699	1.447
46279.3146	12.724	-	1.459	1.244	46278.1820	12.386	-	1.837	1.484
46280.2998	12.777	-	1.477	1.256	46279.2278	12.601	-	1.821	1.532
V386 CYG					46280.2152	12.661	-	1.787	1.527
46274.2487	9.408	1.190	1.492	1.318	V514 CYG				
46275.2582	9.638	1.279	1.647	1.394	46252.2777	11.393	1.392	1.691	1.579
46277.2284	10.010	-	1.706	1.459	46253.2513	11.601	-	1.794	1.625
46278.2832	9.464	1.103	1.498	1.281	46255.3527	11.382	-	1.633	1.502
46279.3194	9.357	-	1.475	1.291	46256.2967	11.070	-	1.51	1.443
46280.3047	9.581	1.291	1.602	1.382	46257.3145	11.368	-	1.706	1.552
46283.3020	9.679	-	1.576	1.350	46258.2620	11.587	-	1.795	1.622
46284.2814	9.304	1.109	1.434	1.259	46259.2585	11.758	-	1.831	1.646
46285.2537	9.546	-	1.582	1.362	46260.2332	11.618	1.509	1.720	1.566
46286.2453	9.741	1.291	1.678	1.428	46261.2524	11.031	-	1.505	1.436
46287.2391	9.895	-	1.730	1.443	46263.2368	11.566	1.456	1.766	1.616
46288.2833	9.854	-	1.637	1.412	46265.2128	11.715	-	1.757	1.625
46289.3031	9.265	1.072	1.411	1.238	46266.2309	10.987	-	1.509	1.415
46290.3034	9.495	-	1.533	1.330	46267.3105	11.324	1.352	1.662	1.546
46291.2566	9.692	1.263	1.648	1.407	46268.3102	11.557	1.415	1.778	1.602
46292.2776	9.877	-	1.712	1.438	46269.2948	11.718	-	1.841	1.620
46294.2435	9.353	1.076	1.421	1.259	46270.3476	11.669	-	1.741	1.595
46295.2455	9.396	-	1.495	1.304	46271.2337	11.020	-	1.497	1.414

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JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
V514 CYG					V520 CYG				
46272.3159	11.297	-	1.666	1.534	46283.2965	10.792	-	1.346	1.151
46273.2561	11.514	-	1.778	1.593	46284.2772	11.029	-	1.455	1.224
46274.2057	11.697	-	1.825	1.640	46286.2362	10.560	0.823	1.210	1.034
46275.1824	11.791	-	1.796	1.655	46287.2360	10.740	-	1.332	1.129
46277.1970	11.226	-	1.643	1.514	46288.2796	11.038	-	1.415	1.244
46278.2312	11.481	-	1.806	1.594	46289.2994	11.124	-	1.463	1.203
46279.2958	11.745	-	1.831	1.641	46290.2994	10.578	-	1.193	1.048
46280.2293	11.801	-	1.806	1.640	46291.2517	10.738	-	1.305	1.129
46283.2930	11.536	-	1.765	1.602	46292.2738	11.004	-	1.462	1.207
46284.2669	11.710	-	1.827	1.633	46294.2400	10.632	-	1.219	1.076
46286.2416	11.121	-	1.527	1.432	46295.2414	10.701	-	1.313	1.112
46287.2339	11.195	-	1.621	1.478	46296.2354	10.989	-	1.436	1.200
46288.2773	11.484	-	1.724	1.597	46297.2381	11.124	-	1.454	1.224
46289.2966	11.684	-	1.820	1.643	46298.2464	10.674	-	1.214	1.100
46291.2499	11.203	-	1.543	1.460	46299.2307	10.702	-	1.293	1.119
46292.2724	11.209	-	1.578	1.488	46300.2350	10.974	-	1.445	1.195
46294.2384	11.664	-	1.794	1.641	46300.3906	11.017	-	1.441	1.216
46295.2394	11.792	-	1.852	1.627	46301.2389	11.117	-	1.483	1.225
46296.2337	11.322	-	1.589	1.478	46302.2566	10.682	-	1.286	1.062
46297.2366	11.140	-	1.560	1.459	46303.2361	10.674	-	1.318	1.101
46298.2447	11.431	-	1.708	1.570	46304.2268	10.944	-	1.460	1.178
46299.2206	11.647	-	1.804	1.647	V554 CYG				
46300.3007	11.811	-	1.830	1.637	46252.2523	13.773	-	0.996	0.937
46300.2321	11.818	-	1.844	1.655	46253.2349	14.121	-	1.116	1.103
46301.2371	11.415	-	1.629	1.530	46256.2797	13.934	-	0.986	0.967
46302.2538	11.124	-	1.581	1.456	46257.2982	13.989	-	1.144	1.009
46303.2340	11.399	-	1.731	1.559	46258.2430	14.288	-	1.216	1.111
46304.2247	11.623	-	1.790	1.611	46259.2484	14.446	-	1.294	1.181
V520 CYG					46260.2207	14.439	-	1.257	1.080
46252.4148	11.091	-	1.474	1.220	46261.2437	13.848	-	1.045	0.963
46253.3239	10.976	-	1.377	1.184	46262.2147	14.221	-	1.226	1.079
46255.3706	10.890	-	1.403	1.185	46263.2215	14.415	-	1.253	1.168
46256.3147	11.056	-	1.476	1.210	46265.2037	13.733	-	1.024	0.903
46257.3275	11.010	-	1.399	1.178	46266.2202	14.041	-	1.183	1.057
46258.2768	10.573	-	1.209	1.058	46267.2270	14.381	-	1.272	1.145
46259.2763	10.834	0.993	1.385	1.161	46268.2399	14.485	-	1.258	1.154
46260.2494	11.073	-	1.464	1.214	46269.2208	13.970	-	1.032	0.988
46261.2673	11.048	0.951	1.402	1.200	46270.2197	13.938	-	1.129	1.037
46263.2514	10.835	0.935	1.374	1.158	46272.3046	14.499	-	1.261	1.228
46265.2289	11.116	1.031	1.437	1.218	46273.2372	14.354	-	1.218	1.043
46266.2443	10.510	0.856	1.215	1.055	46275.2243	14.175	-	1.219	1.105
46267.3292	10.848	-	1.383	1.161	46280.2070	14.356	-	1.189	1.157
46268.3320	11.063	-	1.439	1.220	V621 CYG				
46269.3072	11.073	1.026	1.433	1.192	46274.2543	12.157	-	1.424	1.142
46270.3593	10.531	0.869	1.206	1.044	46275.2618	11.805	-	1.203	1.030
46272.3302	11.048	-	1.453	1.217	46277.2377	11.678	-	1.146	1.026
46273.2732	11.108	1.087	1.445	1.192	46278.2928	11.790	-	1.344	1.052
46274.2321	10.527	0.860	1.190	1.036	46279.3224	12.086	-	1.380	1.160
46275.2444	10.795	0.979	1.355	1.153	46280.3112	12.177	-	1.352	1.160
46277.2194	11.146	-	1.422	1.200	46283.3045	11.677	-	1.182	1.045
46278.2468	10.514	-	1.203	1.020	46284.2849	11.884	-	1.291	1.117
46279.3055	10.796	-	1.378	1.149	46285.2568	12.100	-	1.385	1.140
46280.2375	11.021	-	1.435	1.211	46286.2491	12.177	-	1.364	1.154

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JD HEL 2400000 ⁺	V	U-B	B-V	V-R	JD HEL 2400000 ⁺	V	U-B	B-V	V-R
V621 CYG					V1033CYG				
46287.2414	11.522	-	1.062	0.939	46263.2145	13.360	-	1.786	1.541
46288.2055	11.415	-	1.053	0.942	46265.1987	12.789	-	1.543	1.431
46289.3055	11.700	-	1.197	1.043	46266.2162	13.038	-	1.698	1.514
46290.3062	11.891	-	1.311	1.090	46267.2225	13.292	-	1.750	1.579
46291.2594	12.103	-	1.375	1.136	46268.2317	13.336	-	1.792	1.556
46292.2807	12.145	-	1.361	1.147	46269.2143	12.957	-	1.582	1.439
46294.2470	11.438	-	1.079	0.941	46270.2134	12.758	-	1.543	1.419
46295.2492	11.694	-	1.249	1.036	46271.2297	13.079	-	1.723	1.520
46296.2417	11.905	-	1.301	1.115	46272.2973	13.284	-	1.771	1.559
46297.2441	12.124	-	1.387	1.132	46273.2285	13.366	-	1.827	1.572
46298.2530	12.128	-	1.315	1.125	46275.2156	12.810	-	1.599	1.418
46299.2367	11.318	-	0.956	0.895	46279.2206	12.860	-	1.530	1.433
46300.2497	11.494	-	1.073	0.994	46280.1976	12.832	-	1.526	1.432
46300.3954	11.526	-	1.117	0.990	V1046CYG				
46301.2456	11.747	0.875	1.245	1.071	46274.2216	12.308	-	1.649	1.389
46302.2601	11.924	-	1.355	1.097	46275.1794	12.094	-	1.608	1.366
46303.2419	12.144	-	1.391	1.143	46277.1921	12.450	-	1.896	1.489
46304.2321	12.044	-	1.311	1.078	46278.2050	12.604	-	2.008	1.500
V1020CYG					46279.2350	12.290	-	1.634	1.422
46252.2119	13.923	-	2.000	1.809	46280.2222	12.124	-	1.574	1.371
46253.2128	14.049	-	1.962	1.849	46283.2871	12.694	-	1.801	1.520
46255.2716	13.530	-	1.846	1.703	46284.2634	12.200	-	1.626	1.366
46256.2584	13.765	-	1.930	1.778	46285.2478	12.143	-	1.623	1.390
46257.2708	14.000	-	1.929	1.856	46286.2385	12.362	-	1.731	1.472
46258.2004	14.071	-	1.916	1.813	46287.2310	12.531	-	1.816	1.491
46259.2292	13.354	-	1.697	1.654	46288.2734	12.647	-	1.814	1.506
46260.2036	13.573	-	1.840	1.708	46289.2717	12.160	-	1.570	1.355
46261.2313	13.801	-	1.965	1.840	46290.2598	12.147	-	1.608	1.371
46262.1958	13.955	-	1.958	1.851	46291.2261	12.338	-	1.725	1.433
46263.2020	14.051	-	1.851	1.852	46292.2484	12.569	-	1.787	1.505
46264.2020	13.312	-	1.713	1.618	46294.2238	12.147	-	1.586	1.359
46265.1093	13.591	-	1.772	1.759	46295.2031	12.124	-	1.612	1.366
46266.2067	13.770	-	1.913	1.806	46296.2100	12.403	-	1.703	1.493
46267.2129	14.026	-	1.919	1.877	46297.2168	12.555	-	1.793	1.495
46268.2201	14.000	-	1.952	1.798	46298.2312	12.637	-	1.754	1.509
46269.2032	13.293	-	1.773	1.627	46299.2038	12.140	-	1.569	1.345
46270.1999	13.537	-	1.813	1.733	46300.2070	12.153	-	1.628	1.386
46271.2183	13.831	-	1.934	1.824	46300.3849	12.205	-	1.628	1.544
46272.2264	13.993	-	1.935	1.835	46301.2247	12.401	-	1.766	1.459
46273.2134	14.002	-	1.841	1.803	46302.2287	12.594	-	1.826	1.513
46275.2001	13.595	-	1.892	1.725	46303.2012	12.639	-	1.784	1.489
46279.1752	13.378	-	1.680	1.637	46304.1928	12.124	-	1.589	1.350
46280.1800	13.648	-	1.800	1.761	V1154CYG				
V1033CYG					46274.2164	9.288	0.659	1.006	0.817
46252.2266	13.213	-	1.795	1.516	46275.1758	9.384	0.631	1.022	0.836
46253.2210	13.353	-	1.779	1.569	46277.1736	8.980	0.463	0.835	0.716
46255.2020	12.762	-	1.540	1.401	46278.1733	9.141	0.580	0.929	0.790
46256.2727	13.050	-	1.692	1.507	46279.1707	9.310	0.632	0.977	0.837
46257.2914	13.266	-	1.790	1.565	46280.1763	9.357	0.670	0.999	0.837
46258.2369	13.369	-	1.827	1.555	46283.2746	9.182	0.580	0.951	0.791
46260.2132	12.783	-	1.563	1.379	46284.2540	9.306	-	1.007	0.830
46261.2397	13.049	-	1.708	1.498	46285.2459	9.379	-	0.998	0.840
46262.2089	13.258	-	1.810	1.539	46286.2335	9.115	0.495	0.862	0.741

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JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
V1154CYG					V1467CYG				
46287.2217	9.007	0.479	0.841	0.720	46292.2357	14.060	-	2.707	2.341
46288.2712	9.190	0.571	0.961	0.793	46294.2130	13.942	-	2.597	2.296
46289.2704	9.302	0.627	1.016	0.822	46295.1854	13.789	-	2.561	2.219
46290.2580	9.370	0.624	1.004	0.818	46296.1975	13.720	-	2.500	2.211
46291.2246	9.095	-	0.852	0.743	46297.2050	13.524	-	2.419	2.147
46292.2454	9.036	0.512	0.854	0.730	46298.2241	13.390	-	2.360	2.112
46294.2207	9.318	0.637	1.007	0.825	46299.1933	13.216	-	2.309	2.050
46295.2013	9.365	0.613	0.999	0.815	46300.1943	13.126	-	2.291	2.006
46296.2087	9.093	0.488	0.843	0.737	46301.2150	13.059	-	2.265	2.006
46297.2153	9.031	0.511	0.872	0.737	46302.2057	13.063	-	2.292	2.014
46298.2301	9.208	-	0.955	0.814	46303.1893	13.051	-	2.244	2.010
46299.2022	9.321	0.646	1.007	0.824	46304.1701	13.071	-	2.291	2.021
46300.2055	9.353	-	1.008	0.798	IT LAC				
46300.3035	9.346	0.590	0.962	0.798	46274.3528	15.156	-	0.895	0.920
46301.2230	9.055	0.474	0.835	0.726	46284.3485	14.807	-	0.905	0.866
46302.2234	9.043	0.498	0.896	0.730	46285.2949	15.357	-	0.891	0.966
46303.1977	9.204	0.591	0.969	0.797	46286.2857	15.425	-	0.910	0.910
46304.1900	9.329	0.632	1.034	0.810	46287.2716	15.051	-	0.882	0.839
V1467CYG					46288.3437	15.436	-	0.992	0.966
46252.3995	13.065	-	2.237	2.008	46289.3411	14.735	-	0.768	0.716
46253.2265	13.055	-	2.222	2.018	46290.3402	15.168	-	0.965	0.865
46255.2763	13.058	-	2.289	2.057	46291.2915	15.367	-	1.074	0.962
46256.2626	13.088	-	2.270	2.045	46292.3105	14.922	-	0.852	0.923
46257.2836	13.130	-	2.297	2.091	46294.2666	15.240	-	0.973	0.800
46258.2293	13.166	-	2.306	2.114	46295.2798	15.195	-	0.837	0.853
46259.2339	13.136	-	2.409	2.095	46296.2650	15.427	-	0.868	0.846
46260.2080	13.213	-	2.396	2.120	46297.2618	14.793	-	0.684	0.741
46261.2340	13.209	-	2.414	2.133	46298.2738	15.169	-	0.968	0.892
46262.2061	13.237	-	2.416	2.156	46299.2603	15.376	-	1.049	0.796
46263.2068	13.252	-	2.452	2.158	46300.2614	15.068	-	0.730	0.854
46265.1949	13.324	-	2.504	2.218	46301.3053	15.329	-	1.089	0.959
46266.2117	13.318	-	2.501	2.221	46302.3166	15.050	-	0.773	0.373
46267.2180	13.373	-	2.500	2.226	46303.2754	15.100	-	0.832	0.844
46268.2254	13.381	-	2.532	2.230	46304.2607	15.357	-	1.180	0.853
46269.2091	13.411	-	2.624	2.243	Y OPH				
46270.2072	13.395	-	2.596	2.254	46280.1625	6.135	1.131	1.402	1.231
46271.2235	13.425	-	2.600	2.230	46283.1591	6.323	1.234	1.531	1.273
46272.2028	13.476	-	2.630	2.265	46284.1597	6.364	1.249	1.534	1.294
46273.2218	13.535	-	-	2.289	46285.1614	6.389	1.255	1.536	1.284
46274.3024	13.539	-	2.637	2.264	46286.1712	6.398	1.232	1.513	1.284
46275.2088	13.575	-	2.603	2.318	46287.1662	6.370	1.208	1.512	1.239
46279.1817	13.686	-	-	2.315	46288.1605	6.328	1.178	1.483	1.244
46279.2102	13.695	-	-	2.313	46289.1632	6.291	1.132	1.430	1.217
46280.1900	13.710	-	2.682	2.311	46290.1532	6.164	1.073	1.393	1.196
46283.2806	13.855	-	2.780	2.303	46291.1660	6.036	1.028	1.308	1.175
46284.2577	13.809	-	2.724	2.315	46292.1547	5.918	0.968	1.294	1.121
46285.2396	13.901	-	2.649	2.318	46293.2103	5.918	1.013	1.275	1.133
46286.2230	13.948	-	2.740	2.318	46294.1490	5.949	1.047	1.297	1.158
46287.2245	13.972	-	2.689	2.321	46295.1470	6.000	1.061	1.340	1.171
46288.2501	13.996	-	2.677	2.327	46296.1486	6.051	1.104	1.375	1.185
46289.2597	14.039	-	2.666	2.339	46297.1524	6.110	1.134	1.434	1.210
46290.2289	14.089	-	2.724	2.363	46298.1457	6.171	1.176	1.469	1.237
46291.2150	14.036	-	2.676	2.307	46299.1442	6.247	1.219	1.499	1.256

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JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
Y OPH					CI PER				
46300.1476	6.295	1.252	1.524	1.262	46304.3245	12.813	-	0.835	0.804
46301.1467	6.338	1.236	1.536	1.291	HQ PER				
46302.1531	6.360	1.258	1.541	1.280	46283.4720	11.785	-	1.387	1.107
46303.1460	6.370	1.259	1.546	1.283	46284.4833	11.878	-	1.373	1.140
46304.1378	6.360	1.213	1.524	1.252	46285.4557	11.695	-	1.217	1.079
VX PER					46287.4127	11.370	-	1.133	0.992
46260.4294	9.173	0.781	1.104	0.953	46288.4462	11.450	-	1.225	1.012
46265.4522	9.327	-	1.285	1.059	46289.4534	11.494	-	1.218	1.052
46266.4539	9.448	-	1.361	1.089	46290.4682	11.605	-	1.302	1.058
46267.4553	9.596	-	1.397	1.125	46291.4465	11.698	-	1.326	1.112
46269.4303	9.594	0.952	1.309	1.096	46293.4214	11.843	-	1.308	1.112
46270.4427	9.354	0.829	1.210	1.030	46294.4255	11.613	-	1.211	1.062
46272.4422	9.120	-	1.110	0.959	46295.4143	11.421	-	1.074	0.991
46273.4580	9.043	-	1.082	0.942	46296.4219	11.441	-	1.123	1.004
46274.4436	9.014	-	1.096	0.952	46297.4339	11.467	-	1.190	1.033
46275.4550	9.220	-	1.224	1.034	46298.4399	11.551	-	1.212	1.087
46279.4463	9.640	-	1.391	1.110	46299.4098	11.654	-	1.287	1.089
46280.4398	9.556	-	1.312	1.061	46300.4104	11.734	-	1.352	1.108
46283.4294	9.128	-	1.100	0.953	46301.4415	11.881	-	1.348	1.129
46284.4427	9.032	-	1.084	0.941	46302.4371	11.750	-	1.311	1.079
46285.4185	9.021	-	1.115	0.967	46303.4238	11.548	-	1.177	1.038
46287.3779	9.322	-	1.282	1.057	46304.4273	11.393	-	1.136	0.978
46288.4187	9.480	1.029	1.356	1.098	DG SGE				
46289.4201	9.595	-	1.394	1.115	46252.3440	13.254	-	1.928	1.791
46290.4356	9.680	-	1.390	1.105	46253.3028	13.452	-	2.093	1.821
46291.4144	9.526	-	1.289	1.057	46255.3354	12.817	-	1.781	1.609
46293.3882	9.098	-	1.088	0.941	46256.3534	13.103	-	1.944	1.717
46294.3859	9.127	-	1.128	0.956	46257.3607	13.422	-	1.983	1.838
46295.3753	9.019	0.740	1.081	0.935	46258.3110	13.545	-	2.003	1.816
46296.3804	9.049	-	1.134	0.956	46259.3205	13.125	-	1.882	1.680
46297.3909	9.238	-	1.242	1.027	46260.2992	12.962	-	1.877	1.633
46298.4013	9.339	-	1.281	1.064	46261.3070	13.286	-	1.965	1.789
46299.3743	9.494	1.064	1.343	1.107	46262.3434	13.502	-	2.003	1.865
46300.3562	9.605	-	1.395	1.111	46263.3439	13.479	-	2.049	1.754
46301.4059	9.680	1.050	1.376	1.121	46265.3183	13.198	-	1.903	1.752
46302.3980	9.523	0.869	1.299	1.058	46266.3152	13.437	-	2.072	1.813
46303.3876	9.318	-	1.184	0.995	46267.2942	13.547	-	2.076	1.819
46304.3279	9.087	0.729	1.092	0.921	46268.2871	13.012	-	1.854	1.644
CI PER					46269.2803	12.991	-	1.854	1.671
46289.4080	12.576	-	0.778	0.768	46270.2943	13.294	-	1.965	1.770
46290.4318	12.844	-	0.878	0.814	46272.2598	13.476	-	1.952	1.799
46291.4119	12.753	-	0.817	0.801	46273.3210	12.851	-	1.852	1.583
46293.3854	12.757	-	0.875	0.815	46274.2921	13.154	-	1.933	1.731
46294.3833	12.854	-	0.866	0.821	46275.3174	13.433	-	2.119	1.807
46295.3729	12.367	-	0.694	0.695	46279.2791	13.310	-	2.066	1.742
46296.3776	12.677	-	0.852	0.791	46280.2839	13.514	-	2.044	1.806
46297.3843	12.875	-	0.909	0.822	46283.2429	13.217	-	2.047	1.703
46298.3990	12.469	-	0.722	0.720	GY SGE				
46299.3709	12.602	-	0.798	0.762	46252.3378	9.946	-	2.226	1.911
46300.3540	12.820	-	0.886	0.814	46253.2989	9.952	-	2.253	1.923
46301.4037	12.754	-	0.802	0.796	46255.3308	9.994	-	2.270	1.933
46302.3961	12.503	-	0.769	0.736	46256.3481	10.006	-	2.283	1.944
46303.3854	12.810	-	0.900	0.832	46257.3566	10.042	-	2.308	1.967

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JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
GY SGE					V773 SGR				
46258.3047	10.059	2.164	2.338	1.958	46283.1714	12.015	-	2.136	1.891
46259.3151	10.073	2.193	2.330	1.974	46284.1629	12.168	-	2.085	2.035
46260.2938	10.107	-	2.337	1.967	46285.1646	12.387	-	? 293	2.035
46261.3005	10.126	2.241	2.346	1.986	46286.1742	12.511	-	2.338	2.105
46262.3365	10.137	2.212	2.345	2.000	46287.1684	12.738	-	2.328	2.174
46263.3377	10.173	2.191	2.378	1.999	46288.1648	12.578	-	2.231	2.074
46265.3110	10.236	2.312	2.391	2.020	46289.1663	12.033	-	2.083	1.925
46266.3085	10.244	2.323	2.406	2.032	46290.1568	12.197	-	2.109	2.034
46267.2876	10.251	2.314	2.409	2.031	46291.1684	12.446	-	2.289	2.105
46268.2799	10.259	2.369	2.412	2.029	46292.1596	12.660	-	2.304	2.159
46269.2726	10.291	2.355	2.408	2.031	46294.1529	12.424	-	2.082	2.036
46270.2884	10.308	2.363	2.414	2.036	46295.1506	12.078	-	2.123	1.960
46272.2520	10.353	-	2.427	2.031	46296.1526	12.231	-	2.256	2.015
46273.3149	10.397	2.373	2.424	2.041	46297.1560	12.430	-	2.384	2.042
46274.2811	10.378	-	2.445	2.045	46298.1489	12.649	-	2.395	2.113
46275.3057	10.407	2.414	2.460	2.041	46299.1479	12.778	-	2.359	2.140
46278.3418	10.497	-	-	2.074	46300.1506	12.230	-	2.071	1.992
46279.2735	10.486	-	2.446	2.049	46301.1509	12.078	-	2.113	1.974
46280.2726	10.480	2.459	2.444	2.036	V1954SGR				
46283.2324	10.519	2.474	2.416	2.035	46252.2955	10.444	0.971	1.272	1.132
46284.2115	10.461	-	2.408	2.013	46253.2718	10.589	1.074	1.423	1.239
46285.2196	10.436	-	2.398	1.994	46255.3030	11.015	-	1.575	1.340
46286.2097	10.390	-	2.364	1.983	46258.2873	10.471	0.889	1.201	1.139
46287.2052	10.303	2.109	2.320	1.953	46259.2898	10.601	1.065	1.377	1.224
46288.2196	10.236	-	2.291	1.925	46260.2738	10.832	1.252	1.525	1.255
46289.2299	10.156	-	2.242	1.902	46261.2814	10.950	1.385	1.555	1.357
46290.2121	10.090	1.899	2.201	1.876	46262.2734	11.216	-	1.632	1.361
46291.2029	10.000	-	2.178	1.859	46263.2773	11.123	1.248	1.568	1.343
46292.2034	9.937	-	2.151	1.830	46265.2756	-	1.089	1.344	1.230
46293.2347	9.880	-	2.124	1.835	46266.2582	-	-	1.511	1.208
46294.2010	9.876	-	2.118	1.830	46267.2449	10.905	1.224	1.552	1.344
46295.1791	9.858	-	2.104	1.834	46268.2559	11.109	1.417	1.631	1.351
46296.1874	9.870	-	2.106	1.831	46269.2516	11.192	-	1.621	1.371
46297.1958	9.835	-	2.123	1.821	46270.2510	10.613	1.015	1.353	1.211
46298.2158	9.073	-	2.125	1.847	46271.2431	10.521	1.072	1.324	1.161
46299.1835	9.862	-	2.140	1.840	46272.2110	10.730	1.134	1.453	1.262
46300.1828	9.899	-	2.173	1.851	46279.2484	10.884	-	1.531	1.291
46301.1997	9.895	-	2.164	1.860	46280.2453	11.101	-	1.577	1.359
46302.1973	9.923	-	2.218	1.872	46283.1800	10.472	0.958	1.305	1.149
46303.1710	9.929	-	2.212	1.880	46284.1687	10.645	-	1.413	1.237
46304.1526	9.965	-	2.243	1.879	46285.1862	10.861	1.326	1.528	1.287
U SGR					46286.1809	10.985	1.414	1.564	1.336
46298.1600	7.065	0.957	1.249	1.043	46287.1750	11.213	1.350	1.620	1.365
V773 SGR					46288.1708	11.065	-	1.542	1.291
46262.2408	12.429	-	2.247	2.087	46289.1860	10.463	0.945	1.254	1.151
46263.2700	12.547	-	2.356	2.133	46290.1653	10.572	0.974	1.391	1.198
46266.2531	12.113	-	2.133	1.997	46291.1740	10.834	-	1.497	1.280
46267.2380	12.257	-	2.189	2.103	46292.1665	11.002	-	1.578	1.318
46268.2506	12.409	-	2.338	2.142	46293.2159	11.205	-	1.615	1.368
46269.2315	12.634	-	2.346	2.190	46294.1632	11.168	-	1.561	1.316
46270.2447	12.665	-	2.424	2.155	46295.1574	10.547	-	1.272	1.151
46271.2373	12.293	-	2.161	1.999	46296.1582	10.563	-	1.332	1.202
46272.2058	12.039	-	2.123	1.961	46297.1627	10.777	-	1.482	1.256

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JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
V1954SGR					AE TAU				
46298.1566	10.937	-	1.536	1.312	46295.4519	11.536	-	1.016	0.931
46299.1537	11.144	-	1.629	1.332	46297.4689	11.817	-	1.244	1.079
46300.1566	11.212	-	1.597	1.348	46298.4747	11.980	-	1.233	1.083
46301.1602	10.627	-	1.337	1.179	46299.4469	11.429	-	0.972	0.907
46302.1597	10.474	-	1.365	1.172	46300.4503	11.576	-	1.137	0.970
SU SCT					46301.4719	11.872	-	1.215	1.090
46252.3207	13.266	-	0.672	0.656	46302.4734	11.973	-	1.299	1.047
46253.2696	13.997	-	0.959	0.984	46303.4850	11.354	-	1.004	0.878
46255.3176	13.356	-	0.627	0.730	46304.4651	11.643	-	1.152	1.020
46256.3382	14.073	-	0.954	0.874	AV TAU				
46257.3464	13.747	-	1.016	0.881	46294.4831	12.404	-	1.519	1.294
46258.2961	13.412	-	0.669	0.723	46295.4656	12.628	-	1.518	1.329
46259.3053	14.051	-	1.026	0.920	46297.4805	12.208	-	1.385	1.248
46260.2852	13.789	-	0.982	0.849	46298.4851	12.553	-	1.469	1.359
46261.2889	13.398	-	0.692	0.761	46299.4547	12.690	-	1.502	1.337
46262.2846	14.092	-	1.063	0.892	46300.4569	11.908	-	1.239	1.119
46263.3078	13.807	-	1.058	0.937	46301.4824	12.368	-	1.454	1.292
46265.2967	14.009	-	0.955	0.857	46302.4850	12.612	-	1.531	1.350
46266.2655	13.893	-	1.072	0.860	46303.4942	12.388	-	1.358	1.269
46268.2664	13.785	-	0.870	0.777	46304.4729	12.102	-	1.353	1.198
46269.2587	13.902	-	1.026	0.903	EF TAU				
46270.2601	13.421	-	0.874	0.740	46294.4767	13.044	-	0.910	0.893
46271.2535	13.532	-	0.744	0.726	46295.4595	13.296	-	1.000	1.015
46272.2230	13.939	-	1.034	0.934	46297.4749	12.911	-	0.852	0.860
46273.2936	13.617	-	0.838	0.942	46298.4793	13.171	-	1.002	0.917
46283.1922	13.288	-	0.666	0.645	46299.4500	13.389	-	0.974	0.937
BX SCT					46300.4536	12.724	-	0.763	0.780
46252.3062	12.141	-	2.006	1.895	46301.4770	13.078	-	0.985	0.881
46253.2774	12.258	-	2.081	1.951	46302.4789	13.265	-	1.007	0.951
46255.3093	12.637	-	2.138	2.004	46303.4892	13.290	-	0.990	0.911
46256.3327	12.237	-	1.968	1.890	46304.4696	12.922	-	0.891	0.856
46257.3361	11.816	-	1.830	1.764	S VUL				
46258.2924	12.058	-	1.938	1.858	46252.1921	9.292	2.012	2.042	1.601
46259.2954	12.274	-	2.029	1.927	46253.1942	9.280	2.005	2.030	1.612
46260.2798	12.451	-	2.127	1.960	46255.2630	9.250	1.905	1.999	1.595
46261.2652	12.591	-	2.141	2.028	46256.2478	9.226	1.865	1.985	1.567
46262.2808	12.520	-	2.091	1.950	46257.2606	9.176	1.815	1.967	1.558
46263.3039	11.843	-	1.812	1.756	46258.1917	9.167	1.795	1.952	1.542
46265.2916	12.230	-	2.024	1.912	46259.2223	9.098	1.721	1.913	1.538
46266.2612	12.376	-	2.072	1.979	46260.1967	9.091	1.697	1.901	1.513
46267.2507	12.558	-	2.172	2.032	46261.2249	9.002	1.630	1.860	1.498
46268.2624	12.613	-	2.125	1.990	46262.1895	8.962	1.580	1.821	1.492
46269.2547	12.191	-	1.944	1.866	46263.1959	8.901	1.531	1.803	1.461
46270.2561	11.812	-	1.851	1.781	46264.1952	8.828	1.492	1.793	1.468
46271.2483	12.071	-	1.952	1.877	46265.1831	8.824	1.486	1.758	1.447
46272.2164	12.240	-	2.077	1.918	46266.1991	8.778	1.455	1.746	1.436
46273.2879	12.495	-	-	2.001	46267.2068	8.799	1.441	1.740	1.429
46275.2810	12.425	-	2.089	1.946	46268.2126	8.729	1.447	1.730	1.405
46283.1884	11.894	-	1.918	1.767	46269.1971	8.707	1.435	1.718	1.415
46296.1712	11.901	-	1.931	1.767	46270.4634	8.722	1.450	1.711	1.419
46297.1764	12.146	-	2.002	1.897	46272.4655	8.731	1.417	1.708	1.424
AE TAU					46273.4609	8.677	1.439	1.716	1.393
46294.4708	11.937	-	1.285	1.090	46274.4641	8.718	1.480	1.703	1.442

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JD HEL 2400000+	V	U-B	B-V	V-R	JD HEL 2400000+	V	U-B	B-V	V-R
S VUL					SV VUL				
46275.4698	8.706	1.489	1.760	1.429	46288.2536	6.846	0.994	1.299	1.050
46279.4594	8.726	-	1.769	1.446	46289.2520	6.882	1.040	1.339	1.064
46283.2672	8.829	1.583	1.861	1.481	46290.2248	6.912	1.070	1.386	1.072
46284.2481	8.832	1.590	1.868	1.479	46291.2115	6.934	1.120	1.406	1.107
46285.2327	8.846	1.634	1.874	1.495	46292.2325	6.972	1.161	1.454	1.114
46286.2175	8.857	1.635	1.893	-	46293.3531	6.999	1.212	1.481	1.139
46287.2119	8.855	1.669	1.896	1.503	46294.2095	7.040	1.248	1.512	1.156
46288.2508	8.875	1.701	1.901	1.517	46295.1943	7.056	1.302	1.536	1.160
46289.2501	8.887	1.686	1.915	1.519	46296.1943	7.105	1.356	1.552	1.181
46290.2230	8.898	1.715	1.936	1.502	46297.2021	7.128	1.386	1.586	1.191
46291.2102	8.894	1.758	1.948	1.523	46298.2216	7.184	1.403	1.600	1.216
46292.2298	8.918	1.754	1.957	1.528	46299.1902	7.202	1.447	1.619	1.210
46293.3495	8.936	1.787	1.955	1.553	46300.1901	7.244	1.468	1.647	1.223
46294.2077	8.951	1.761	1.963	1.549	46301.2105	7.269	1.513	1.653	1.242
46295.1911	8.948	1.794	1.986	1.539	46302.2201	7.296	1.491	1.698	1.232
46296.1913	8.989	1.841	1.970	1.555	46303.1843	7.315	1.544	1.692	1.238
46297.1993	8.979	1.835	1.989	1.551	46304.1636	7.370	1.558	1.704	1.242
46298.2195	9.028	1.888	1.985	1.573	BR VUL				
46299.1873	9.021	1.869	2.000	1.563	46252.3774	10.944	-	1.559	1.315
46300.1871	9.050	1.891	2.026	1.563	46253.3087	10.261	0.929	1.279	1.131
46301.2086	9.066	1.940	2.015	1.588	46255.3388	10.777	-	1.565	1.327
46302.2164	9.077	1.865	2.061	1.570	46256.3576	10.964	-	1.625	1.368
46303.1803	9.088	1.940	2.034	1.586	46257.3651	11.036	-	1.606	1.357
46304.1595	9.117	1.906	2.051	1.576	46258.3192	10.301	0.930	1.279	1.129
SV VUL					46259.3246	10.476	0.992	1.426	1.221
46252.1985	7.160	1.405	1.546	1.199	46260.3029	10.729	1.086	1.549	1.284
46253.1997	7.184	1.441	1.563	1.223	46261.3116	10.928	1.249	1.596	1.357
46255.2667	7.253	1.481	1.621	1.237	46262.3486	11.054	1.230	1.641	1.368
46256.2518	7.278	1.513	1.648	1.225	46263.3490	10.413	0.948	1.330	1.158
46257.2630	7.299	1.531	1.655	1.239	46265.3230	10.719	1.100	1.527	1.299
46258.1943	7.345	1.558	1.669	1.242	46266.3198	10.896	1.202	1.598	1.357
46259.2252	7.350	1.570	1.678	1.255	46267.2988	11.047	1.386	1.660	1.369
46260.1996	7.424	1.602	1.692	1.255	46268.2925	10.645	1.006	1.429	1.230
46261.2260	7.423	1.619	1.684	1.273	46269.2845	10.340	0.956	1.332	1.154
46262.1911	7.467	1.623	1.675	1.297	46270.2999	10.639	1.082	1.473	1.291
46263.1975	7.469	1.634	1.704	1.274	46272.2641	11.019	1.279	1.630	1.365
46264.1982	7.463	1.622	1.745	1.287	46273.3248	10.837	-	1.528	1.291
46265.1853	7.532	1.656	1.717	1.291	46274.2977	10.291	0.960	1.307	1.133
46266.2032	7.549	1.663	1.710	1.291	46275.3241	10.597	-	1.469	1.266
46267.2089	7.627	1.670	1.728	1.294	46279.2856	10.270	-	1.276	1.117
46268.2140	7.624	1.685	1.736	1.291	46280.2891	10.516	-	1.423	1.239
46269.1999	7.658	1.692	1.735	1.305	46283.2489	11.074	-	1.634	1.361
46270.4660	7.729	1.681	1.746	1.313	46284.2135	10.337	-	1.296	1.139
46272.4697	7.772	1.683	1.731	1.308	46286.2113	10.727	-	1.539	1.254
46273.4635	7.741	1.634	1.704	1.280	46287.2096	10.897	-	1.620	1.336
46274.4688	7.757	1.659	1.678	1.290	46288.2212	11.056	-	1.671	1.348
46275.4735	7.742	1.564	1.646	1.265	46289.2316	10.531	-	1.351	1.182
46279.4639	7.143	1.105	1.370	1.098	46290.2188	10.411	-	1.374	1.160
46283.2702	6.741	0.866	1.159	0.962	46291.2046	10.668	-	1.506	1.287
46284.2508	6.739	0.878	1.171	0.967	46292.2054	10.864	-	1.618	1.319
46285.2356	6.767	0.905	1.193	0.988	46293.2379	11.033	-	1.656	1.372
46286.2196	6.791	0.919	1.230	0.997	46294.2030	10.738	-	1.453	1.263
46287.2149	6.806	0.960	1.271	1.020	46295.1809	10.332	-	1.304	1.157

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JD HEL	V	U-B	B-V	V-R	JD HEL	V	U-B	B-V	V-R
2400000+					2400000+				
BR VUL									
46296.1889	10.613	-	1.490	1.259					
46297.1974	10.827	-	1.582	1.326					
46298.2176	11.049	-	1.642	1.378					
46299.1853	10.918	-	1.557	1.311					
46300.1842	10.293	-	1.302	1.121					
46301.2019	10.569	-	1.445	1.249					
46302.1998	10.810	-	1.614	1.308					
46303.1740	10.981	-	1.637	1.351					
46304.1558	11.055	-	1.615	1.343					