

KG

1/366

4.851

SV TAURI

C. LASOVSKY

— 1125 —

115

1 7.65

2 8.27

3 8.78

4 10.31

5 10.55

6 11.93

7 11.97

8 11.61

9 12.12

2

Julian Day	Light Eqn.	L. Eqn	Min.	Phase	Sr.	Min	Phase
2414639.718	+8.1 + 0.006	9.724	7.810	1.914 -0.253	4.3	7.749	1.875 -0.293
709.657	+3.1 + .002	9.659	9.316	0.343	3.4	9.257	0.402
735.521	-0.6 - .000	5.521	5.319	0.202	3.4	5.260	0.261
913.810	-0.6 - .000	3.810	3.003	0.807	5.9	2.946	0.864
966.851	+8.0 + .006	6.857	5.008	1.849 -0.318	5.9	4.952	1.906 -0.262
971.725	+8.1 + .006	1.731	1.508	0.223	4.8	1.452	0.279
5026.532	+7.7 + .005	6.537	5.680	0.857	5.3	5.625	0.912
282.880	-0.2 - .000	2.880	1.371	1.509 -0.658	2.7	1.319	1.561 -0.606
376.624	+8.1 + .006	6.630	4.547	2.083 -0.084	11.8	4.495	2.135 -0.033
754.781	+7.7 + .005	4.786	3.750	1.036	4.3	3.703	1.083
775.771	+6.4 + .005	5.776	5.119	0.357	5.3	5.372	0.404
780.669	+5.9 + .004	0.673	9.753	0.920	3.4	9.706	0.967
787.641	+4.5 + .003	7.644	6.253	1.391	4.3	6.206	1.438
795.550	+4.2 + .003	5.553	4.921	0.632	5.9	4.874	0.679
804.602	+3.1 + .002	4.604	3.588	1.016	3.4	3.542	1.062
811.620	+2.1 + .002	1.622	0.089	1.533 -0.634	4.8	0.042	1.580 -0.594
819.636	+1.0 + .001	9.637	8.756	0.881	3.4	8.710	0.927
821.567	+0.8 + .001	1.568	0.920	0.645	3.4	0.877	0.691
6051.747	+5.1 + .004	1.751	0.612	1.139	4.3	0.568	1.183
061.746	+8.0 + .006	1.752	1.446	0.306	4.3	1.403	0.349
146.609	+5.8 + .004	6.613	5.945	0.668	4.8	5.912	0.701
158.531	+4.4 + .003	8.534	6.784	1.745 -0.422	3.4	6.747	1.787 -0.380
159.710	+4.3 + .003	9.714	8.956	0.758	3.4	8.913	0.801
174.618	+2.4 + .002	4.620	4.124	0.496	5.9	4.032	0.538
199.559	-1.2 - .001	9.568	7.960	1.598 -0.569	3.4	7.917	1.641 -0.527
205.520	-2.0 - .001	5.519	4.460	1.059	4.3	4.418	1.101
222.560	-4.2 - .003	2.557	1.795	0.762	5.9	1.753	0.804

	Plate No	Date	Qual.	Exp			
9.88	QC 122	1898. X. 15	5	65 ^m	$\gamma 1 V 2\delta$	$\gamma 1 V 2\delta$	9.88
9.73	220	1899. II. 23	3	77	$V = \gamma$		
9.73	254	1899. III. 21	3	25	$V = \gamma$	$V = \gamma$	
9.96	443	X. 15	3	60	$\gamma 3 V 1\delta$	$\gamma 1 V 1\delta$	pin
9.96	507	XI. 7	3	72	$\gamma 2 V 1\delta$	$\gamma 1 V 2\delta$	
9.92	518	XI. 12	3	69	$\gamma 1 V 1\delta$	$\gamma 1 V 2\delta$	
	644	1900. I. 2	3	69	$\gamma 2 V 1\delta$	yellow	
10.03	663	6.	4	71	$\gamma 2 V 1\delta$		
9.67	1008	X. 19.	3	64	$\beta 3 V 1\delta$		
10.67	1082	XII. 22	3	13	$\epsilon 3 V 2\gamma$	$\epsilon 2 V 1\gamma$	$\epsilon 2 V 1\gamma$
9.88	2157	1902. I. 4	3	90	$\gamma 1 V 2\delta$		
10.03	2246	25	3	71	$\gamma 2 V 1\delta$		
9.73	2258	30	3	83	$\gamma = V$		
9.88	2283	II. 6	3	66	$\gamma 1 V 2\delta$		9.88
9.96	2328	14	4	36	$\gamma 2 V 1\delta$	$\gamma 1 V 2\delta$	
9.73	2361	23	3i	67	$\gamma = V$		
9.96	2375	III. 2	3i	65	$\gamma 1 V 1\delta$		
9.73	2399	10	4	58	$\gamma = V$		
9.73	2404	12	3	66	$\gamma = V$		
9.88	2943	X. 28	3	120	$\gamma 1 V 2\delta$		9.88
9.88	2981	XI. 7	3	92	$\gamma 1 V 2\delta$		
9.96	3230	1903. I. 31	3i	53	$\gamma 1 V 1\delta$		9.88
9.73	3283	II. 12	3i	74	$\gamma = V$		
9.73	3292	13	4	59	$\gamma = V$		
9.88	3370	28	3i	72	$\gamma 1 V 3\delta$	$\gamma 1 V 3\delta$	
9.73	3450	III. 25	3	53	$\gamma = V$		
	3456	29	4	60	$\gamma 1 V 3\delta$		
9.88	3462	31	3i	51	$\gamma 1 V 2\delta$		
9.73	3505	IV. 17	4	63	$\gamma = V$	$\gamma 1 V 3\delta$	

4

Julian Day	Light Equ.	2. Equ.	2.166 875				2.166 9.			
			Min	Phase	Sw	Min	Phase	Sw	Min	Phase
4162.23.548	-0.003	3.545	1.795	1.750	-0.417	3.4	1.753	1.792	-0.376	9.7
224.542	-0.003	4.539	3.962	0.577		4.8	3.920	0.619		9.9
382.866	+0.001	2.867	2.144	0.733		5.3	2.104	0.763		10.0
418.844	+0.004	8.848	6.814	2.034	-0.133	6.4	6.774	2.074	-0.093	10.2
549.502	+0.001	9.503	8.993	0.510		2.7	8.955	0.548		9.6
552.532	+0.001	2.543	1.160	1.383		3.4	1.122	1.421		9.7
583.539	-0.003	3.536	1.496	2.040	-0.127	6.8	1.459	2.077	-0.090	10.2
721.832	-0.002	1.830	0.176	1.654	-0.513	4.8	0.140	1.690	-0.478	9.9
739.870	-0.000	9.870	9.678	0.192		5.3	9.642	0.228		10.0
755.823	+0.001	5.824	4.847	0.977		4.8	4.811	1.013		9.9
760.794	+0.002	0.796	9.180	1.616	-0.551	3.8	9.145	1.651	-0.516	9.8
776.769	+0.003	6.772	6.515	0.257		4.3	6.480	0.292		9.8
793.763	+0.004	3.767	1.618	2.079	-0.088	11.8	1.648	2.119	-0.048	10.6
801.775	+0.005	1.780	0.351	1.429		2.2	0.316	1.464		9.7
806.661	+0.005	6.666	4.685	1.981	-0.186	3.8	4.649	2.017	-0.159	9.9
821.855	+0.006	1.861	9.853	2.008	-0.159	6.2	9.818	2.043	-0.124	10.0
834.661	+0.006	4.667	2.854	1.813	-0.354	2.2	2.819	1.848	-0.320	9.7
843.760	+0.006	3.766	3.688	0.078		4.2	3.654	0.112		10.0
860.658	+0.006	0.664	8.856	1.808	-0.359	4.8	8.822	1.842	-0.325	9.9
869.632	+0.005	9.637	7.524	2.113	-0.054	13.1	7.490	2.147	-0.020	10.0
874.638	+0.004	4.642	4.026	0.616		2.8	3.990	0.652		9.8
881.595	+0.003	1.598	0.525	1.073		3.8	0.491	1.107		9.8
888.640	+0.003	8.643	7.026	1.617	-0.550	5.3	6.992	1.651	-0.516	10.0
915.580	+0.001	5.581	5.195	0.386		4.3	5.161	0.420		9.8
920.556	+0.000	0.556	9.529	1.027		3.4	9.495	1.061		9.7
945.570	-0.002	5.568	3.532	2.036	-0.131	9.1	5.498	0.070		10.0
958.542	-0.003	8.539	8.533	0.006		13.1	8.499	0.040		10.0
7089.856	-0.002	9.854	8.545	1.309		2.4	8.513	1.341		9.7
702.855	-0.001	2.854	1.546	1.308		2.2	1.515	1.339		9.7

Plate No	Date	Qual	Exp.				
9.73 ac 3512	1903. IV. 18	3	70	$\gamma = V$			
9.96 3520	19	4	62	$\delta \neq V 1 \delta$			
10.03 3984	IX. 24	4	51	$\delta 2 V 1 \delta$			
10.20 3141	X. 30	3i	90	$\delta 1 V 3 \epsilon$	$\delta = V$	$\delta = V$	
9.84 4720	1904 III. 9	3	40	$\delta 3 V 1 \delta$	$\delta 3 V 1 \delta$		
9.73 4732	12	3	70	$\delta = V$			
10.23 4820	IV. 12	4	70	$\delta 1 V 3 \epsilon$	$\delta 1 V 3 \epsilon$		
9.96 5197	VIII. 28	3i	60	$\delta 1 V 1 \delta$			
10.03 5250	IX. 25	3	63	$\delta 2 V 1 \delta$	$\delta 2 V 1 \delta$		
9.96 5316	X. 1	3	60	$\delta 1 V 1 \delta$			
9.80 5340	6	4	60	$\delta 1 V 3 \delta$			
9.88 5412	22	3	57	$\delta 1 V 2 \delta$	$11 V 2 \delta$		
10.67 5499	XI. 8	3	75	$\epsilon 2 V 1 \gamma$	$\epsilon 2 V 1 \gamma$		
5540	16	5	60	$\delta 2 V 1 \delta$			noo
9.96 5573	21	3	93	$\delta 1 V 1 \delta$	$11 V 1 \delta$		
10.17 5678	XII. 6	3i	95	$V = \delta$	$V = \delta$		
9.73 5751	19	3	65	$V = \delta$			
5771	24	3	60	$\delta 2 V 1 \delta$			yellow
10.24 5776	28	4	79	$V = \delta$	$\delta 1 V 2 \epsilon$		
9.96 5833	1905 T. 14	4	66	$\delta 1 V 1 \delta$			
10.76 5883	23	4	41	$V = \eta$	$V = \eta$		
9.80 5907	28	4	67	$\delta 1 V 3 \delta$			
9.80 5946	T. 4	3	64	$\delta 1 V 3 \delta$			
10.03 5982	11	3	53	$\delta 2 V 1 \delta$			
9.88 6143	III. 10	3	67	$\delta 1 V 2 \delta$			
9.73 6174	15	4	23	$\delta = V$			
10.17 6283	IV. 9.	3	54	$\delta 2 V 1 \epsilon$	$V = \epsilon$	$V = \epsilon$	
10.76 6205	22	3	58	$V = \eta$	$V = \eta$		
9.81 6647	VIII. 31	3	72	$\delta = V$	$\delta 1 V 2 \delta$		
6689	IX. 13	3	61	$\delta 2 V 1 \delta$			noo

6

1925phae.proj.125

6

Julian Day	Light Equ.	Jul. D + L. Equ.	Min.	2.166875 Phase	Sec	Min.	2.1669 Phase	
417112.246	+0.001	2.847	2.381	0.466	3.8	2.349	0.498	9.8
127.787	+0.002	7.789	7.549	0.240	4.8	7.518	0.271	9.9
131.802	+0.002	1.804	9.716	2.088	-0.078	11.4	9.684	2.120 -0.048
147.887	+0.004	7.891	7.051	0.840	4.8	7.020	0.871	9.9
160.732	+0.005	0.737	0.052	0.685	5.3	0.021	0.716	10.0
240.679	+0.004	0.683	0.226	0.457	3.4	0.196	0.487	9.7
244.669	+0.004	4.673	4.560	0.113	6.2	4.530	0.143	10.1
252.671	+0.003	2.674	1.161	1.513	-0.654	5.3	1.031	1.643 -0.524
270.596	+0.002	0.598	0.562	0.036	10.7	0.533	0.065	10.5
293.529	-0.001	3.528	2.231	1.297	2.7	2.202	1.326	9.6
512.868	+0.004	2.872	1.086	1.786	-0.381	4.3	1.059	1.813 -0.354
~~517.871~~	~~+0.005~~	~~7.879~~	~~7.586~~	~~0.293~~	~~0.7~~	~~7.570~~	~~0.201~~	~~9.3~~
523.815	+0.005	3.820	1.920	1.900	-0.267	3.4	1.893	1.927 -0.241
529.830	+0.005	9.835	8.421	1.414	4.3	8.394	1.441	9.8
541.748	+0.005	1.753	1.422	0.331	3.4	1.395	0.358	9.7
562.797	+0.006	2.803	0.924	1.879	-0.288	4.8	0.898	1.905 -0.262
563.760	+0.006	3.766	3.091	0.675	4.8	3.064	0.702	9.9
587.722	+0.006	7.728	6.926	0.802	3.4	6.900	0.828	9.7
618.595	+0.003	8.598	7.263	1.335	4.8	7.237	1.361	9.9
630.593	+0.002	0.595	0.264	0.331	3.4	0.238	0.357	9.7
632.586	+0.002	2.588	2.431	0.157	6.2	2.405	0.183	10.0
646.568	+0.002	6.570	5.432	1.138	4.8	5.407	1.163	9.9
653.547	-0.000	3.547	1.903	1.614	-0.553	4.3	1.907	1.640 -0.528
865.838	+0.003	5.841	4.286	1.555	-0.612	4.3	4.264	1.577 -0.590
871.863	+0.003	1.866	0.787	1.079	4.3	0.764	1.102	9.8
918.776	+0.006	8.782	8.458	0.324	3.4	8.436	0.346	9.8
957.648	+0.005	1.653	0.961	0.692	4.3	0.940	0.713	9.8
972.633	+0.004	2.637	2.630	0.007	10.9	2.609	0.028	10.0
980.634	+0.003	0.637	9.131	1.506	-0.661	3.4	9.109	1.528 -0.640
8004.594	+0.002	4.596	2.966	1.630	-0.537	3.4	2.945	1.651 -0.517

Plate No.	Date	Qual	Exp			
9.80 AC 6720	1905 IX. 23	3	70	$\gamma 1 V 3 \delta$		
9.92 6810	X. 8	3i	64	$\gamma 1 V 1 \delta$	$\gamma 1 V 2 \delta$	
10.64 6832	12	3	60	$\epsilon 2 V 1 \gamma$	$\epsilon 1 V 1 \gamma$	$\epsilon 1 V 1 \gamma$
9.96 6901	27	4	66	$\gamma 1 V \delta 1$		
10.03 6973	XI. 10	3	63	$\gamma 2 V 1 \delta$		
9.73 7230	1906 T. 29	4	62	$\gamma = V$		
10.14 7246	II. 2	3	64	$V = \delta$	$\gamma 3 V 1 \delta$	
10.03 7270	10	3	56	$\gamma 2 V 1 \delta$		
10.59 7330	28	3i	65	$\epsilon 1 V 1 \gamma$	$\epsilon 1 V 1 \gamma$	$V = \epsilon$
9.68 7405	III. 23	4	60	$\beta 3 V 1 \gamma$	$V = \gamma$	
9.68 7948	X. 28	4	61	$\gamma 1 V 2 \delta$		
~~9.38 7952~~	~~XI. 2~~	~~3~~	~~61~~	~~$\gamma 1 V 3 \delta$~~		~~good~~
9.73 7998	8	5	71	$\gamma = V$	$\gamma = V$	
9.88 8018	14	4	63	$\gamma 1 V 2 \delta$		
9.73 8058	26	4	64	$\gamma = V$		
9.96 8105	XII. 12	3i	64	$\gamma 1 V 1 \delta$	$\gamma 1 V$	
9.96 8110	18	3i	68	$\gamma 1 V 1 \delta$		
9.73 8153	1907 T. 11	3	62	$\gamma = V$		
9.96 8237	II. 17	4	57	$\gamma 1 V 1 \delta$		
9.73 8290	23	3	65	$\gamma = V$		
10.14 8299	25	3	66	$V = \delta$	$\gamma 5 V 1 \delta$	
9.96 8342	II. 11	3	82	$\gamma 1 V 1 \delta$		
9.68 8354	18	3i	60	$\gamma 1 V 2 \delta$		
9.68 8882	X. 16	5	59	$\gamma 1 V 2 \delta$		
9.88 8913	22	2	59	$\gamma 1 V 2 \delta$		
9.73 9056	XII. 8	4	60	$\gamma = V$		
9.88 9166	1908 T. 10	4	60	$\gamma 1 V 2 \delta$		
10.61 9223	31	4	61	$\epsilon 1 V 2 \gamma$	$\epsilon 1 V 1 \gamma$	$\epsilon 1 V 2 \gamma$
9.73 9254	II. 8	3	64	$\gamma = V$		
9.73 9308	III. 3	4	65	$\gamma = V$		

8 GMT

Julian Day

Light Equ.

Jul. 8
+
L. Equ

Min

2.166 175

Phase

Sr

2.166 9

Min

Phase

418.031.528	-0.001	1.527	1.136	0.391		3.4	1.115, 0.412	9.7
~~045.541~~	~~-0.003~~	~~5.538~~	~~4.137~~	~~1.401~~		~~7.8~~	~~4.116, 1.422~~	~~10.2~~
245.776	+0.004	5.782	5.656	0.126		~~6.2~~	5.638 0.144	10.1
250.777	+0.005	0.783	9.990	0.793		4.0	9.972 0.811	9.8
291.835	+0.006	1.841	1.161	0.680		3.4	1.143, 0.698	9.8
297.728	+0.006	7.734	7.661	0.073		8.4	7.644 0.090	10.1
297.817	+0.006	7.823	7.661	0.162		~~4.8~~	7.644 0.179	~~9.9~~
344.699	+0.004	4.703	3.166	1.537	-0.630	5.0	3.148, 1.555 -0.613	10.1
349.539	+0.003	9.542	7.500	2.042	-0.125	6.2	7.482, 2.060 -0.108	10.1
360.663	+0.002	0.665	0.501	0.164		2.8	0.484, 0.181	9.8
371.602	+0.001	1.603	1.335	0.268		~~2.8~~	1.318 0.285	9.8
~~517.661~~	~~-0.002~~	~~7.849~~	~~6.252~~	~~0.997~~		~~6.2~~	~~6.837, 1.012~~	~~10.1~~
568.860	0.000	8.860	8.521	0.339		3.4	8.506, 0.354	9.7
616.780	+0.004	6.784	6.192	0.584		~~3.4~~	6.178, 0.606	~~9.7~~
620.797	+0.005	0.802	0.526	0.276		3.4	0.572, 0.290	9.7
645.923	+0.005	5.928	4.361	1.567	-0.600	4.8	4.348 1.580 -0.587	9.9
683.713	+0.005	3.718	3.365	0.353		2.8	3.352 0.366	9.8
739.578	+0.001	9.519	7.537	1.982	-0.185	~~3.4~~	7.524, 1.995 -0.173	10.0
956.834	+0.002	6.836	6.391	0.445		3.4	6.381 0.455	9.7
~~982.848~~	~~+0.003~~	~~7.821~~	~~0.725~~	~~2.046~~	~~-0.071~~	~~12.1~~	~~0.715, 2.106 -0.061~~	~~10.1~~
984.842	+0.004	4.846	4.561	0.285		5.0	4.551, 0.295	10.1
988.785	+0.005	8.790	6.728	2.062	-0.105	7.3	6.718 2.072 -0.095	10.2
9001.767	+0.005	1.771	9.729	2.042	-0.125	6.2	9.719 2.052 -0.116	10.1
036.659	+0.006	6.665	6.566	0.099		~~4.2~~	6.556 0.109	10.1
060.645	+0.005	0.650	0.401	0.249		4.8	0.392 0.258	9.9
061.642	+0.005	1.647	0.401	1.246		4.8	0.392 1.245	9.9
083.570	+0.003	3.573	2.070	1.503	-0.664	4.8	2.061 1.512 -0.656	9.9
084.587	+0.003	4.590	4.227	0.353		4.8	4.228 0.362	9.9
086.638	+0.003	6.641	6.404	0.237		~~4.8~~	6.395 0.246	9.9
091.545	+0.002	1.547	0.738	0.809		5.0	0.729 0.818	10.1

Plate No.	Date	Qual	Exp			
9.73 AC 9372	1908 III. 30	3	61	$\delta = V$		
~~10.27 9418~~	~~IV. 16~~	~~3~~	~~60~~	~~$\delta 1 V 1 \epsilon$~~	~~$\delta 1 V 1 \epsilon$~~	
10.10 9861	X. 30	4i	63	$\delta = V$	$\delta 2 V 1 \delta$	
9.88 9881	XI. 4	5	64	$\delta 1 V 2 \delta$		
9.73 10060	XII. 15	3i	64	$\delta = V$		
10.10 10082	21	3i	64	$\delta 3 V 1 \epsilon$	$\delta 1 V 1 \epsilon$	$\delta 2 V 1 \epsilon$
9.96 10084	21	3i	65	$\delta 1 V 2 \delta$	$\delta 2 V 1 \delta$	
10.03 10214	1909 II. 6	3	60	$\delta 2 V 1 \delta$		
10.17 10225	11	3	60	$V = \delta$	$V = \delta$	
9.80 10253	22	3	60	$\delta 1 V 3 \delta$	$\delta 1 V 3 \delta$	
9.88 10277	III. 5	3	63	$\delta 1 V 3 \delta$	$\delta 1 V 2 \delta$	
~~10.17 10771~~	~~III. 28~~	~~3~~	~~60~~	~~$V = \delta$~~	~~$V = \delta$~~	~~puuv~~
9.73 10832	IX. 18	5	70	$\delta = V$		
9.77 11014	XI. 5	5	60	$\delta = V$	$\delta 1 V 3 \delta$	
9.77 11034	9	4	60	$\delta = V$	$\delta 1 V 3 \delta$	
9.96 11119	XII. 4	4	60	$\delta 1 V 1 \delta$		
9.80 11288	1910 T. 11	5	60	$\delta 1 V 3 \delta$		
10.03 11443	III. 8	5	60	$\delta 2 V 1 \delta$	$\delta 2 V 1 \delta$	
9.73 12030	X. 11	4	60	$\delta = V$		
~~10.03 12058~~	~~17~~	~~3~~	~~60~~	~~$\delta 1 V 4 \delta$~~	~~$\delta 1 V 3 \delta$~~	~~$\delta 1 V 4 \delta$~~
10.03 12105	XI. 8	3	59	$\delta 2 V 1 \delta$	$\delta 2 V 1 \delta$	
10.28 12116	12	3i	62	$\delta 1 V 2 \epsilon$	$\delta 1 V 2 \epsilon$	
10.17 12151	25	3i	63	$\delta = V$	$\delta = V$	
10.10 12251	XII. 30	3i	44	$\delta = V$	$\delta 3 V 1 \delta$	
9.96 12305	1911 I. 23	5	60	$\delta 1 V 1 \delta$	$\delta 1 V 1 \delta$	
9.96 12312	24	4	62	$\delta 1 V 1 \delta$		
9.96 12325	II. 15	4	60	$\delta 1 V 1 \delta$		
9.96 12328	16	4	60	$\delta 1 V 1 \delta$		
9.92 12333	18	4	64	$\delta 1 V 1 \delta$	$\delta 1 V 2 \delta$	
10.03 12344	23	3	60	$\delta 2 V 1 \delta$		

10

Julian Day	Light Equ.	Jul D. L. Equ.	Min.	Phase	SW	Min.	Phase
2419339.778	+0.001	9.779	7.761	2.018 - 0.149	~~6.2~~	7.756	2.023 - 0.144
396.757	+0.006	6.757	6.267	0.490	5.3	6.262	0.495
429.623	+0.004	9.627	8.770	0.857	3.4	8.765	0.862
438.638	+0.004	8.642	7.428	1.204	~~4.8~~	7.420	1.209
449.571	+0.003	9.574	8.272	1.302	~~4.8~~	8.267	1.307
472.557	+0.001	2.558	2.108	0.450	4.0	2.103	0.455
473.509	+0.001	3.570	2.108	1.402	4.0	2.103	1.407
673.860	+0.001	3.861	2.627	0.234	~~3.4~~	3.625	0.236
690.904	+0.002	0.906	8.795	2.111 - 0.056	9.5	8.793	2.113 - 0.055
693.890	+0.003	3.893	3.129	0.764	3.4	3.127	0.766
709.926	+0.004	9.930	8.297	1.633 - 0.534	4.8	8.295	1.635 - 0.533
716.831	+0.004	6.835	4.798	2.037 - 0.130	6.6	4.796	2.039 - 0.129
776.632	+0.005	6.637	5.470	1.167	5.0	5.469	1.168
782.657	+0.005	2.662	1.971	0.691	4.8	1.970	0.692
809.563	+0.003	9.566	7.770	1.593 - 0.574	4.8	7.770	1.593 - 0.574
829.569	+0.001	9.570	7.475	2.095 - 0.072	4.5	7.475	2.095 - 0.072
20094.801	+0.005	4.806	4.001	0.805	~~5.8~~	4.004	0.802
105.773	+0.005	5.778	4.835	0.943	4.0	4.828	0.940
130.727	+0.006	0.733	8.671	2.062 - 0.105	6.2	8.674	2.059 - 0.108
~~139.632~~	~~+0.005~~	~~9.617~~	~~9.525~~	~~0.112~~	~~4.8~~	~~9.509~~	~~0.112~~
158.621	+0.004	8.625	6.840	1.785 - 0.382	4.8	6.844	1.781 - 0.386
166.580	+0.004	6.584	5.508	1.076	4.0	5.511	1.073
179.606	+0.003	9.609	8.509	1.100	4.8	8.513	1.096
~~460.837~~	~~+0.005~~	~~0.842~~	~~0.223~~	~~0.639~~	~~1.2~~	~~0.210~~	~~0.628~~
465.797	+0.005	5.802	4.536	1.266	~~4.8~~	4.544	1.258
494.696	+0.006	4.902	2.706	1.946 - 0.171	~~5.2~~	2.713	1.989 - 0.179
502.705	+0.005	2.710	1.373	1.337	~~4.2~~	1.381	1.329
507.686	+0.005	7.691	5.707	1.984 - 0.183	~~6.2~~	5.715	1.976 - 0.191

Plate No	Date	Qual.	Exp			
10.10 C 12695	1911 IX. 29	4i	60	V = δ	1 2 V 1 δ	
10.03 12813	XI. 25	4i	72	1 2 V 1 δ		
9.73 12868	1912 T. 27	4	64	$\delta = V$		
9.92 12880	II. 5	3	60	1 2 V 1 δ	1 1 V 2 δ	
9.92 12929	16	5	60	1 1 V 2 δ	1 1 V 2 δ	
9.88 12986	III. 10	4	60	1 1 V 2 δ		
9.88 12989	11	4i	46	1 1 V 2 δ		
9.81 13264	IX. 27	3i	56	$\delta = V$	1 1 V 2 δ	
10.51 13331	X. 14	3i	39	V = ϵ	V = ϵ	
9.73 13356	17	3i	62	$\delta = V$		
9.96 13425	XI 2	3	38	1 1 V 1 δ		
10.21 13462	9	3i	63	1 2 V 3 ϵ	$\delta = V$	1 1 V 3 ϵ
10.03 13619	1912 T. 8	4i	39	1 2 V 1 δ		
9.96 13650	14	4i	60	1 1 V 1 δ		
9.96 13762	III. 10	3i	63	1 1 V 1 δ		
10.51 13830	III. 2	3i	63	V = ϵ	V = ϵ	
10.07 14588	XI. 22	4	60	1 3 V 1 δ	1 2 V 1 δ	
9.88 14616	XII 3	5	58	1 1 V 2 δ		
10.17 14716	28	3	60	V = δ	V = δ	
9.96 14747	1914 T. 6	3i	60	1 1 V 2 δ		
9.96 14810	25	3i	81	1 1 V 1 δ		
9.88 14826	III. 2	3i	68	1 1 V 2 δ		
9.96 14869	12	3	72	V = δ	Yellow	
9.96 14883	15	3i	73	1 1 V 1 δ		
9.96 14963	III. 12	4	43	1 1 V 3 ϵ	1 1 V 4 ϵ	Yellow
9.92 15778	XI 28	3i	79	1 1 V 2 δ		
9.92 15808	28	3	64	1 1 V 1 δ	1 1 V 2 δ	
10.00 15944	XII 27	2i	60	1 2 V 1 δ	1 1 V 1 δ	
9.92 15961	1915 T. 4	3	77	1 1 V 2 δ	1 1 V 1 δ	
10.10 15999	9	4	64	V = δ	1 2 V 1 δ	

12

12				2.166875			2.1669		
Julian Day	Light Equ	Jul. D + L. Equ	Min.	Phase	Sr	Min	Phase		
2420556.652	+0.002	6.654	5.545	1.109	5.3	5.553	1.104		10.0
595.570	-0.002	5.568	4.549	1.029	3.8	4.558	1.010		9.8
848.738	+0.006	8.744	8.073	0.671	~~2.8~~	8.085	0.659		10.0
856.738	+0.006	6.744	6.741	0.003	~~10.8~~	4.586	2.158 -0.009		10.6
898.624	-0.002	8.622	7.911	1.711 -0.456	3.4	7.924	1.698 -0.469		9.8
959.546	+0.001	9.547	8.584	0.963	4.0	8.598	0.950		9.8
21141.890	+0.001	1.891	0.601	1.290	~~2.8~~	0.616	1.275		9.9
163.863	+0.003	3.866	2.270	1.596 -0.571	5.0	2.285	1.581 -0.587		10.0
205.768	+0.006	5.774	5.608	0.166	4.8	5.623	0.151		9.9
214.730	+0.006	4.736	4.275	0.461	3.4	4.291	0.445		9.8
228.684	+0.006	8.690	7.276	1.414	4.0	7.292	1.398		9.8
277.738	+0.003	7.741	7.115	0.626	~~2.8~~	7.121	0.610		10.0
284.536	+0.002	4.538	3.615	0.923	4.0	3.632	0.906		9.8
308.648	0.000	8.648	7.451	1.197	3.4	7.468	1.180		9.8
515.761	+0.002	5.763	5.471	0.292	5.0	5.490	0.273		10.0
585.708	+0.006	5.712	4.811	0.901	3.4	4.831	0.881		9.8
642.500	+0.003	2.503	1.150	1.353	~~5.8~~	1.170	1.333		9.8
~~868.821~~	~~+0.003~~	~~8.824~~	~~8.173~~	~~0.651~~	~~6.2~~	~~8.197~~	~~0.627~~		9.8
949.781	+0.006	9.787	8.845	0.942	4.8	8.870	0.917		9.8
951.697	+0.006	7.703	7.573	0.190	5.8	7.528	0.165		10.0
996.604	+0.004	6.608	6.577	0.091	9.5	6.542	0.066		10.5
22017.607	+0.002	7.609	6.019	1.590 -0.577	5.0	6.044	1.565 -0.602		10.0
071.575	-0.003	1.572	0.191	1.381	5.0	0.216	1.356		10.0
254.902	+0.003	4.905	4.075	0.530	~~2.8~~	4.403	0.502		9.8
296.774	+0.005	6.779	5.548	1.231	~~5.8~~	5.574	1.205		10.0
375.663	+0.003	5.666	3.553	2.113 -0.054	6.8	3.582	2.084 -0.084		10.2
619.508	+0.003	9.811	8.410	1.401	~~2.8~~	8.442	1.369		10.0
658.657	+0.006	8.660	7.414	1.246	4.8	7.446	1.214		9.8
~~666.715~~	~~+0.005~~	~~2.950~~	~~1.198~~	~~1.062~~	~~11.7~~	~~1.781~~	~~0.969~~		9.8
671.759	+0.006	1.765	0.415	1.350	~~2.8~~	0.448	1.317		9.8

Plate No	Date	Qual	Exp.		
10.03 16166	1915 II. 27	3	43	$\delta 2 V 1 \delta$	
9.80 16370	IV. 7	3i	64	$\delta 1 V 3 \delta$	
10.04 17131	XII. 16	4	60	$\delta 2 V 1 \delta$	$\delta 1 V 2 \delta$
10.60 17162	24	3	60	$\epsilon 1 V 2 \eta$	$\epsilon 1 V 2 \eta$
9.83 17287	1916 II 4	4i	61	$\delta = V$	
9.88 17483	IV 5	3i	60	$\delta 1 V 2 \delta$	
9.96 17971	X 4	3i	56	$\delta 2 V 3 \delta$	$\delta 1 V 1 \delta$
10.03 18062	26	5	56	$\delta 2 V 1 \delta$	
9.96 18266	XII 7	4	59	$\delta 1 V 1 \delta$	$\delta 1 V 1 \delta$
9.83 18313	16	5	78	$\delta = V$	
9.88 18378	30	3	66	$\delta 1 V 2 \delta$	
10.07 18574	1917 II 17	3	66	$\delta 2 V 1 \delta$	$\delta 2 V 1 \delta$
9.88 18600	24	5	61	$\delta 1 V 2 \delta$	
9.83 18685	II. 20	3i	62	$\delta = V$	
10.03 19275	X. 13	4	66	$\delta 2 V 1 \delta$	$\delta 2 V 1 \delta$
9.83 19616	XII 22	4	58	$\delta = V$	
9.87 19831	1918 II 7	4	63	$\delta = V$	$\delta 1 V 3 \delta$
9.83 20606	X. 21	4	58	$V = \delta$	
9.96 20859	XII 21	4	59	$\delta 1 V 1 \delta$	
10.11 20882	29	4	59	$\delta 2 V 1 \delta$	$\delta 3 V 1 \delta$
10.51 21683	1919 II 6	3	59	$\delta 3 V 1 \eta$	$\epsilon = V$ $\epsilon = V$
10.03 21209	27	3	68	$\delta 2 V 1 \delta$	
10.03 21368	IV 22	3i	49	$\delta 2 V 1 \delta$	
9.87 21941	X. 22	4i	61	$\delta = V$	$\delta 1 V 3 \delta$
10.00 22063	XII 3	5	53	$\delta 2 V 1 \delta$	$\delta 1 V 1 \delta$
10.23 22423	1920 II 20	4i	56	$\delta 1 V 3 \epsilon$	$\delta 1 V 3 \epsilon$
10.02 23005	X. 21	4	60	$V = \delta$	$\delta 1 V 2 \delta$
9.96 23090	XI. 29	3i	77	$\delta 1 V 1 \delta$	$\delta 1 V 1 \delta$
23097	XII 3	4i	60	$\delta = V$	$\epsilon 1 V 1 \eta$ $\epsilon 1 V 1 \eta$
9.87 23126	12	5	60	$\delta = V$	$\delta 1 V 3 \delta$

14

Julian Day	Light Ego.	Jul. D L. Ego.	Min	2.166875 Phase	Sr.	2.1669 Min	Phase	
2422677.776	+0.006	7.782	6.916	0.871	4.3	6.948	0.834	10.1
87.735	+0.006	7.741	5.583	2.158 -0.009	11.6	5.616	2.125 -0.042	10.1
2415664.824	+0.002	4.826	2.741	2.085 -0.082	12.3	2.693	2.133 -0.037	10.1
21543.756	+0.005	3.761	3.640	0.121	7.8	3.660	0.101	10.1
21558.732	+0.005	8.737	6.641	2.096 -0.071	6.8	6.662	2.076 -0.097	10.1
✓ 21595.676	+0.005	5.681	5.645	0.036	12.3	5.665	0.016	10.1
22022.495	+0.002	2.497	0.352	2.145 -0.022	13.6	0.378	2.119 -0.050	10.1
22637.870	+0.005	7.875	5.745	2.130 -0.037	7.8	5.777	2.098 -0.075	10.1

Plate no	Date	Qual	Sep			
9.88 ac 23151	1920 XII. 18	5	62	δ 1 V 2 δ		
10.66 20196	28	4	62	ϵ 3 V 2 γ	ϵ 1 V 1 γ	ϵ 2 V 1 γ
10.71 1838	1901. ~~X~~ . 6	50	71	ϵ 3 V 1 γ	ϵ 3 V 1 γ	
10.71 19407	1917. XI. 10	4	58	δ 1 V 1 ϵ	δ 1 V 1 ϵ	
10.20 19497	1917. XI. 25	0	69	δ 1 V 3 ϵ	$\delta = V$	δ 1 V 2 ϵ
10.71 19604	1918. I. 1	3	62	ϵ 2 V 1 γ	ϵ 4 V 1 γ	ϵ 3 V 1 γ
10.78 21226	1919. III. 4	3	60	γ 1 V 5 θ	γ 1 V 4 θ	
10.34 22049	1920 XI. 8	4	74	δ 1 V 1 ϵ	δ 1 V 1 ϵ	

X_0	Phase	Gr.	Phase	Gr.
96	12325	-0.656	4.8	
9.73	9254	.640	3.4	-0.636 4.5
10.03	10214	.613	5.3	
	1008	.606	2.7	
	21209	.602	5.3	.601 4.3
	2375	.594	4.8	
	8882	.590	4.3	(.576) 4.6
	11119	.587	4.8	-572 4.5
	18062	.587	5.3	
	12762	.574	4.8	
	13425	.533	4.8	.545 4.6
	8354	.528	4.3	
	3450	.527	3.4	
	7270	.524	5.3	.523 4.0
	9208	.517	3.4	
	5340	.516	3.8	
	5982	.516	5.3	.503 4.6
	5797	.478	4.8	
	17217	.469	3.4	
	14810	.386	4.8	.407 3.9
	3283	.380	3.4	
	3572	.376	3.4	.374 4.1
	7948	.354	4.8	.352 4.3
	5833	.325	4.8	
	5751	.320	2.2	
	122	.293	4.3	.292 3.9
	507	.262	5.3	
	8105	.262	4.8	
	7998	.241	3.4	.231 4.8
	15999	-0.191	6.2	

15944	-0.179	5.3							
11443	.173	5.3			-0.165	5.6	-0.165	5.6	
12695	.144	6.2					.156	5.8	157 5.0
13462	.129	6.6	3		.129	6.6			
5678	.124	6.2					.123	6.3	
12151	.116	6.2			.116	6.2	.114	6.2	
10225	.108	6.2					.104	6.4	108 6.4
14716	.108	6.2							
19497*	.097	6.8	3		.096	6.9			
12116	.095	7.3	2						
4141	.093	6.4	3		.092	6.6	.094	6.8	
4820	.090	6.8	3				.093	6.8	
22423	.084	6.8	3						
23049*	.075	7.8			.078	8.2	.077	8.0	
12830	.072	9.5	3						
12053	.061	14.12	3						
13331	.055	9.5	3						
21236*	.050	13.6			.052	10.7	.051	11.6	
5499	.048	11.8	3						
6232	.048	11.4	3		.041	11.6	.041	11.6	
23196	.042	11.6	3						
1082	.033	11.4	3						
5883	.020	13.1	3						
17162	-0.009	10.8	3		-0.015	12.0	-0.006	12.1	
19634*	+0.010	12.3							
9223	+0.028	10.9	3		+0.034	12.0	+0.044	11.6	
6205	.029	13.1	3						
7020	.065	10.7	3		.066	10.1			
21083	.066	9.5	3						
6283	.070	9.1	3		.080	8.8	.075	9.0	
10082	.090	8.4	3						
19437*	.096	7.8	2						
12251	.108	6.2			.110	6.2	.105	6.7	
5776	.112	6.2							
14747	.112	7.8							111 6.7
7246	.142	6.2							
	.144	6.2							

	(.142	6.2)					
9861	+ 0.144	6.2			+ .145	5.7	
18266	.150	4.8					
20882	.165	5.8		.165	5.1	167	5.3
10084	.179	4.8					
10253	.181	5.8			+ .177	5.1	
8299	.182	6.2		180 5.0			
~~1952~~	~~.209~~	~~6.7~~					
13264	.206	5.4					
12333	.255	4.8		289 4.3			
12305	.257	4.8		289 4.3		289	4.4
254	.261	3.4					
6810	.271	4.8					
19275	.273	5.3		.271 4.6	.271	4.4	
578	.279	4.8					
10277	.284	3.8					
5250	.288	5.3		.287 4.2		288	4.5
11034	.290	3.4					
5412	.292	4.3					
12105	.295	5.3		.311 4.3			
9056	.346	5.4					
2981	.349	4.3					
10832	.354	3.4		.353 3.7			
8058	.357	5.4			.346 4.0	354	3.8
8290	.357	5.4					
12328	.361	4.8		.361 4.0			
11288	.366	5.8					
220	.401	5.4					
2246	.404	5.0		406 4.0			
9072	.412	5.4				408	3.9
6143	.419	4.3					

18013	+0.445	3.4	}	+0.439	3.7	}	.434	3.8	}	481	3.9
12030	.454	3.4									
12986	.454	4.0	}	.478	4.3	}					
7230	.486	3.4									
12813	.495	5.0	}	.512	3.5	}					
6720	.497	3.8									
21941	.502	3.4	}	.550	4.8	}					
2070	.538	3.4									
4720	.546	2.7	}	.585	4.0	}					
11014	.598	3.4									
18574	.610	5.8	}	.624	4.1	}				592	4.0
2520	.618	4.8									
20606	.627	6.2	}	.670	4.6	}					
15778	.628	4.2									
5907	.651	3.8	}	.681	4.5	}				686	4.6
17121	.659	5.8									
2328	.679	5.0	}	.696	4.0	}					
2404	.691	3.4									
12650	.692	4.8	}	.710	4.8	}					
10060	.698	3.4									
2230	.699	4.8	}	.758	4.5	}				740	4.4
8110	.701	4.8									
9166	.710	4.0	}	.805	4.5	}					
6973	.716	5.0									
2984	.763	5.0	}			}					
10256	.765	2.4									
2292	.800	2.4	}			}					
14588	.802	5.8									
2505	.803	2.4	}			}					
9881	.811	4.0									

12244	+ 0.818	5.0	}	+ 0.826	4.5	}	.835	4.3	}	876	4.4
8153	.827	5.4									
22151	.833	4.3									
12868	.861	5.4	}			}	.846	4.3	}		
440	.864	5.8									
6901	.871	4.8									
19616	.881	5.4	}			}			}	883	4.5
18600	.906	4.3									
663	.912	5.0									
20859	.917	4.8	}			}	.931	4.3	}		
2099	.927	5.4									
14616	.939	4.0									
17483	.950	4.0	}			}			}	952	4.0
23097	.969	4.7									
2258	.970	5.4									
16270	1.010	5.8	}	.977	3.8	}			}		
10771	1.012	6.2									
5316	1.013	4.8									
6174	1.060	5.4	}	1.028	4.8	}			}		
2061	1.062	5.4					1.089	4.4		050	4.4
14826	1.072	4.3									
2517	1.083	4.0	}	1.072	4.0	}			}		
14883	1.096	4.8									
2462	1.100	4.0									
16166	1.100	5.0	}	1.099	4.8	}			}		
8913	1.101	4.0									
5546	1.107	5.8									
8342	1.163	4.8	}	1.124	4.3	}			}	111	4.4
10619	1.167	5.0					1.038	4.4			
18685	1.180	5.4									
2940	1.182	4.0	}	1.176	4.0	}			}		

22063	+1.205	5.0	}	+1.209	5.0	1'	}	193	4.6
12880	1.209	4.8							
23090	1.213	4.8							
2283	1.207	4.0	}	.246	4.6	}	}	285	4.5
12512	1.246	4.8							
15808	1.256	4.8							
17971	1.274	5.0	}	.299	4.3	}	}	280	4.0
12929	1.206	4.0							
25126	1.217	5.4							
7405	1.226	2.7	}	.329	3.5	}	}	280	4.0
15961	1.229	4.0							
19831	1.222	5.4							
6689	1.229	2.2	}	.346	3.6	}	}	280	4.0
6647	1.240	5.4							
21268	1.255	5.0							
8227	1.264	4.8	}	.375	5.0	}	}	280	4.0
23005	1.268	6.2							
18378	1.297	4.0							
12989	1.406	4.0	}	.425	3.7	}	}	424	4.4
4702	1.420	5.4							
8018	1.441	4.0							
5540	1.464	2.2	}	.531	4.5	}	}	559	4.3
12525	1.511	4.8							
9254	1.527	5.4							
10214	1.554	5.0	}	.566	4.0	}	}	559	4.3
1008	1.561	2.7							
21209	1.565	5.0							
2075	1.573	4.8	}	.586	4.0	}	}	559	4.3
8882	1.577	4.0							
11119	1.580	4.8							
18062	1.580	5.0	}	.586	4.0	}	}	559	4.3
12762	1.593	4.8							

	Comp. Star	Scale	Diff.	Photogr. Magnitudes from diff. plates								Phot. Magn. (mean)
				5833	5907	7405	8237	9056	17287	18062		
	Var											
a	β	0.00	3.38	9.43	9.43	9.38	9.30	9.28	9.10	9.13		9.29 ± 0.07
b	γ	3.38	2.80	9.59	9.58	9.74	9.75	9.81	9.94	9.70		9.73
c	δ	6.18	3.31	10.21	10.06	10.21	10.21	10.03	10.38	10.08		10.17
	ϵ	9.49	3.56	10.42	10.55	10.55	10.40	10.38	10.55	10.69		10.51
	η	13.05	4.67	10.65	10.79	10.83	10.83	10.55	10.90	10.76		10.76
	θ	17.72	17.72	10.95	11.03	10.93	10.93	10.91	10.93	11.03		10.96

V. S. S. 2.166875

Encke $\left\{ \begin{array}{l} 2.16689 \\ 4.33575 \end{array} \right\}$

2.1669

Des.	C.D.M. Miles	C.D.M. Mag	2A 1900	Dec 1900	Adopted Mag
Var			h m s		
a					
b			3 42 56	-27° 50.5	
c					

Phase	Phot. Magn.	Phase	Phot. Magn.	Phase	Phot. Magn.
-0.636	9.92	+0.311	9.88	+1.375	10.00
.601	9.88	.353	9.79	.435	9.79
.588	9.96	.361	9.83	.531	9.91
.545	9.92	.406	9.83	+1.566	9.88
.523	9.84	.439	9.79		
.503	9.92	.478	9.88		
.407	9.82	.572	9.75		
.352	9.88	.585	9.83		
.292	9.82	.624	9.85		
.231	9.96	.670	9.93		
.165	10.08	.696	9.88		
.129	10.22	.710	9.96		
.116	10.17	.776	9.83		
.096	10.24	.805	9.91		
.092	10.22	.826	9.91		
.078	10.38	.865	9.95		
.052	10.59	.900	9.88		
.041	10.66	.928	9.87		
-0.015	10.69	.977	9.80		
+0.034	10.69	1.028	9.96		
.066	10.55	1.072	9.84		
.080	10.44	1.099	9.96		
.110	10.17	1.124	9.88		
.133	10.05	1.176	9.88		
.165	10.01	1.209	9.99		
.200	9.91	1.246	9.93		
.224	9.88	1.299	9.88		
.274	9.99	1.329	9.75		
+0.287	9.87	+1.345	9.77		

(V, I, S)

	photo.	vis.	col. index
Min.	9.88	9.4	+0.48 F_3
Max.	10.70	10.6	+0.10 A_2
	0.82	1.2	

p. 25

12325

1885

β	a	+ 27° 861	542 ^m 32.0	27° 47.8
γ	b	28° 930	544 9.4	28° 14.2
ϵ	d	28 912	541 45.7	28 34.4
γ	e	914	541 50.1	28 29.4

ν av 28° 921 542 59.2 28 4.1

δ c 27° 895 543 47.6 27° 57.4
 σ f 28 922 543 0.2 28 10.7

Phase	Plate no.	Sc.	Phot. Mag.	Phase	Plate no.	Sc.	Phot. Mag.
-0.572	10	4.5	9.91	+1.595	10	4.5	9.91
.503	6	4.3	9.87	1.664	6	4.3	9.87
.374	4	4.1	9.84	1.793	4	4.1	9.84
.300	4	4.2	9.86	1.867	4	4.2	9.86
.231	3	4.8	9.96	1.936	3	4.8	9.96
.156	4	5.8	10.11	2.011	4	5.8	10.11
.114	4	6.2	10.17	2.053	4	6.2	10.17
.094	4	6.8	10.23	2.073	4	6.8	10.23
.077	3	8.0	10.36	2.090	3	8.0	10.36
.051	3	11.6	10.66	2.116	3	11.6	10.66
.041	3	11.6	10.66	2.126	3	11.6	10.66
-0.006	3	12.1	10.69	2.161	3	12.1	10.69
+0.044	3	11.6	10.66				
.075	3	9.0	10.46				
.105	3	6.7	10.22				
.145	3	5.7	10.10				
.177	4	5.1	10.00				
.271	11	4.4	9.89				
.346	8	4.0	9.83				
.434	8	3.8	9.80				
.551	8	4.1	9.84				
.681	7	4.5	9.91				
.758	8	4.5	9.92				
.846	8	4.3	9.87				
.921	7	4.3	9.87				
1.039	8	4.4	10.89				
1.138	8	4.4	10.89				
1.251	9	4.6	9.92				
+1.351	8	4.3	9.87				
1.476	7	4.3	9.87				

26

* wt 2
other wt
PecJupiter (Ab) Per 2.166890 E
Min = 24202.446

0 + 0.76 *	10.71	358	9.73	0.15	801	9.73	0.15	1205	10.03	0.15
528 *	10.61	362	9.96	0.08	802 10.07	10.11	0.23	1209	9.96	0.08
540 *	10.76	366	9.80	0.08	804 9.73	9.73	0.15	1214	9.96	0.08
65 *	10.59	402	9.73	0.15	811	9.88	0.00	1245	9.96	0.08
66 *	10.51	404	10.03	0.15	818	10.03	0.15	1258	9.96	0.08
70 *	10.47	412	9.73	0.15	828	9.73	0.15			
					834	9.88	0.00	1275	10.03	0.15
90 *	10.41	420	9.88	0.00	862	9.73	0.15	1307	9.88	0.00
101 *	10.34	445	9.73	0.15	871	9.96	0.08	1317	9.73	0.15
109	10.17	455	9.88	0.00	906	9.88	0.00	1326	9.73	0.24
112	10.17	455	9.73	0.15	912	10.03	0.15	1329	9.88	0.00
143	10.17	487	9.73	0.15	917	9.96	0.08	1333	9.73	0.15
144	10.17	495	10.03	0.15	927	9.73	0.15	1341	9.73	0.15
151	9.96	498	9.80	0.08	940	9.88	0.00	1356	10.03	0.15
165	10.11	502	9.73	0.15	950	9.88	0.00	1361	9.96	0.08
179	9.96	538	9.73	0.15	967	9.73	0.15	1369	9.88	0.00
181	9.80	548	9.64	0.24	1010	9.80	0.08	1398	9.88	0.00
183	10.17	606	9.73	0.15						
~~211~~	~~9.73~~	610	10.03	0.15	1012	9.73	0.15	1407	9.88	0.00
228	10.03	619	9.96	0.08	1013	9.96	0.08	1421	9.73	0.15
236	9.73	652	9.80	0.08	1061	9.73	0.15	1438	9.88	0.00
246	9.96	659	10.04	0.11	1062	9.73	0.15			
258	9.96	679	9.96	0.08	1073	9.88	0.00	1441	9.88	0.00
261	9.73	691	9.73	0.15	1083	9.88	0.00	1512	9.96	0.08
271	9.96	692	9.96	0.08	1096	9.96	0.08	1528	9.73	0.15
273	10.03	698	9.73	0.15	1101	10.03	0.15	1555	10.03	0.15
279	9.96	701	9.96	0.08	1101	9.88	0.00	1561	9.80	0.24
285	9.80	702	9.96	0.08	1102	9.88	0.00	1565	10.03	0.15
290	9.73	713	9.96	0.08	1107	9.80	0.08	1577	9.88	0.00
292	9.88	716	9.88	0.00	1163	9.96	0.08	1580	9.96	0.08
295	10.03	763	10.03	0.15	1170	9.73	0.15	1581	10.03	0.15
346	9.73	766	9.73	0.15	1180	9.73	0.15	1593	9.96	0.08
349	9.88				1183	9.88	0.00	1635	9.96	0.08
354	9.73							1640	9.88	0.00
357	9.73									

					Mean Phase	Mean Mag					
1641	9.73	0.15	2.095 *	10.51							
1643	10.03	0.15									
1651	9.73	0.15	2.098 *	10.34							
1651	9.80	0.08	2.113 *	10.51	0.016	10.71	1	1.227	9.98	4	
1651	9.96	0.08	2.119 *	10.67	.034	10.69	2	1.267	10.00	2	
1690	9.96	0.08	2.119 *	10.78	.067	10.52	3	1.326	9.99	6	
1698	9.73	0.15	2.120 *	10.64	.090	10.41	1	.366	9.94	4	
1781	9.96	0.08	2.125 *	10.66							
1781	9.96	0.08	2.125 *	10.71	.107	10.23	3	.427	9.84	4	
1787	9.73	0.15	2.125 *	10.67	.144	10.17	2	.520	9.85	2	
1792	9.73	0.15	2.147 *	10.76	.158	10.09	2	.574	9.95	8	
1813	9.96	0.08	2.158 *	10.60	.181	9.98	3	.680	9.90	4	
1842	9.96	0.08		10.71	.201	9.73	1	.668	9.84	5	
1848	9.58	0.30		10.61	.237	9.91	3	.787	9.81	3	
* 1875	9.88	0.00		10.76	.266	9.92	4	.834	9.83	3	
1905	9.96				.288	9.88	5	.875	9.88	1	
1906	10.03				.348	9.81	2	.913	9.91	3	
* 1927	9.73										
1976	10.17				.359	9.79	5	.987	10.08	3	
1989	10.03				.447	9.83	10	~~.995~~	~~10.05~~	1	
1995	10.03				.529	9.70	3	2.026	10.06	3	
2017	9.80				.615	9.91	3	.053	10.17	4	
2023	10.17				.679	9.87	6	.077	10.23	5	
2039	10.21				.708	9.96	4	.102	10.45	3	
2043	10.17				.765	9.88	2	.125	10.69	6	
2052	10.17				.814	9.86	7	.153	10.68	2	
2059	10.17				.867	9.85	3	.183	10.71		
2.060	10.17				.920	9.90	5	.201	10.69		
2.072 *	10.28				.959	9.81	2	.234	10.52		
2.074 *	10.20				1.012	9.88	3	.257	10.41		
2.076 *	10.23				.075	9.84	5	.274	10.20		
2.077 *	10.23				.103	9.90	4	.311	10.17		
2.084 *	10.23				.173	9.87	5	.325	10.04		
								.348	9.98		

Overlapping means (6)

0.028 *	10.69	0.354	9.79	0.744	9.89	1.124	9.93	1.561	9.88	2.
0.044 *	10.65	0.358	9.81	0.760	9.92	1.119	9.88	1.570	9.92	2.
0.057 *	10.62	0.367	9.78	0.775	9.89	1.148	9.86	1.574	9.92	2.
0.067 *	10.52	0.375	9.83	0.791	9.87	1.162	9.86	1.579	9.97	2.
0.075 *	10.46	0.384	9.83	0.800	9.87	1.178	9.89	1.591	9.96	2.
0.084 *	10.41	0.394	9.86	0.811	9.87	1.186	9.89	1.602	9.96	2.
0.101 Δ	10.31	0.408	9.82	0.816	9.89	1.194	9.88	1.612	9.92	2.
0.118 Δ	10.23	0.423	9.83	0.826	9.83	1.206	9.92	1.622	9.93	2.
0.137	10.13	0.432	9.83	0.836	9.89	1.219	9.96	1.634	9.88	2.
0.149	10.09	0.446	9.78	0.846	9.91	1.234	9.98	1.644	9.86	2.
0.161	10.03	0.456	9.83	0.861	9.88	1.251	9.96	1.646	9.86	2.
0.167	10.03	0.473	9.82	0.875	9.93	1.269	9.92	1.655	9.87	2.
0.177	9.96	0.482	9.82	0.889	9.95	1.288	9.87	1.664	9.87	2.
0.190	9.97	0.496	9.79	0.900	9.95	1.302	9.85	1.687	9.86	2.
0.201	9.90	0.511	9.78	0.912	9.91	1.315	9.82	1.710	9.86	2.
0.213	9.90	0.531	9.78	0.925	9.89	1.326	9.77	1.733	9.85	2.
0.225	9.93	0.550	9.79	0.936	9.87	1.334	9.79	1.760	9.85	2.
0.238	9.86	0.571	9.82	0.952	9.83	1.341	9.83	1.786	9.85	2.
0.250	9.89	0.596	9.83	0.966	9.87	1.348	9.92	1.811	9.82	2.
0.258	9.73	0.616	9.89	0.982	9.90	1.360	9.92	1.826	9.81	2.
0.266	9.93	0.638	9.96	1.002	9.88	1.372	9.98	1.846	9.85	2.
0.271	9.91	0.652	9.96	1.021	9.85	1.385	9.98	1.865	9.90	2.
0.277	9.87	0.665	9.93	1.039	9.88	1.399	9.92	1.892	9.93	2.
0.282	9.89	0.679	9.89	1.051	9.89	1.412	9.90	1.917	9.98	2.
0.286	9.91	0.687	9.92	1.065	9.86	1.436	9.87	1.941	10.02	2.
0.298	9.86	0.694	9.90	1.079	9.87	1.458	9.84	1.965	10.00	2.
0.310	9.84	0.700	9.87	1.086	9.89	1.483	9.87	1.984	10.04	2.
0.321	9.83	0.704	9.92	1.093	9.92	1.506	9.85	2.007	10.07	2.
0.332	9.83	0.716	9.93	1.098	9.91	1.527	9.88	2.014	10.07	2.
0.363 v	9.81	0.727	9.93	1.112	9.92	1.550	9.88	2.028	10.09	2.

2.039	10.12	2.328	10.03	2.623	9.83	-0.121	10.18
2.046	10.18	2.334	10.03	2.640	9.82	0.128	10.12
2.060	10.21	~ 2.338	9.96	2.649	9.82	0.139	10.09
2.069	10.22	~ 2.357	9.97	2.663	9.79	0.153	10.07
2.074	10.24	* 2.368	9.90	2.678	9.78	0.160	10.07
2.076	10.22	↓ 2.380	9.90			0.183	10.04
2.079	10.23	2.392	9.93			.202	10.00
2.085	10.32	2.405	9.86			.226	10.02
2.092	10.36	2.417	9.89			.250	9.98
2.102	10.45	2.425	9.73	—		.275	9.93
2.110	10.51	2.433	9.93			.302	9.90
2.117	10.65	2.438	9.91	+0.028	10.69	.321	9.85
2.119	10.70	2.444	9.87	+0.012	10.64	.341	9.81
2.121	10.69	2.449	9.89	-0.004	10.69	.356	9.82
2.126	10.67	2.453	9.91	-0.029	10.68	.381	9.85
2.131	10.68	2.465	9.86	-0.029	10.71	.407	9.85
2.138	10.71	2.477	9.84	-0.036	10.68	.434	9.85
2.146	10.68	2.488	9.83	-0.049	10.67	.457	9.86
2.163	10.69	2.499	9.83	-0.046	10.69	.480	9.86
2.179	10.64	2.530	9.81	0.048	10.70	.503	9.87
2.195	10.69	2.521	9.79	0.050	10.65		
2.211	10.65	2.525	9.81	0.057	10.51		
2.224	10.62	2.534	9.78	0.065	10.45		
2.234	10.52	2.542	9.83	.075	10.36		
2.242	10.46	2.551	9.83	.082	10.32		
2.251	10.41	2.561	9.86	.088	10.23		
2.268	10.31	2.575	9.82	.091	10.22		
2.285	10.23	2.590	9.83	.093	10.24		
2.304	10.13	2.599	9.83	.098	10.22		
2.316	10.09	2.613	9.78	.107	10.21		

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	Plate No	Phase		Mag.	Number of obs.	2 σ	Mean	
		+	+2-167				Phase	Mag
1	19634	0.016	2.183	10.71	3		0.016	10.71
2	9223	0.028	2.195	10.61	3		0.034	10.69
3	6305	.040	2.207	10.76	2			
4	7330	0.065	2.232	10.59	3		0.067	10.52
5	21083	.066	2.233	10.51	2			
6	6283	.070	2.237	10.47	3			
7	10082	0.090	2.257	10.40	3		0.090	10.40
8	19437	0.101	2.268	10.34	2		0.107	10.23
9	12251	.109	2.276	10.10	2			
10	5776	.112	2.279	10.24	2			
11	7246	0.143	2.310	10.14	2		0.144	10.12
12	9861	.144	2.311	10.10	2			
13	18266	0.151	2.318	9.96	2		0.158	9.98
14	20882	.165	2.332	10.11	2			
15	10084	0.179	2.346	9.96	2		0.181	9.97
16	10253	.181	2.348	9.80	2			
17	8299	.183	2.350	10.14	2			
18	5250	0.228	2.395	10.03	2		0.237	9.92
19	13264	.236	2.403	9.81	2			
20	12333	.246	2.413	9.92	2			

	Plate No	Phase		Mag		Res	Mean	
		+	-				Phase	Mag
21	12305	0.258	2.425	9.96	2	1	0.266	9.91
22	254	.261	2.428	9.73	2			
23	6810	.271	2.438	9.92	2			
24	19275	.273	2.440	10.03	2			
25	518	0.279	2.446	9.92	2		0.288	9.89
26	10277	.285	2.452	9.88	2			
27	11034	.290	2.457	9.77	2			
28	15412	.292	2.459	9.88	2			
29	12105	.295	2.462	10.03	2			
30	9056	0.346		9.73		+ .15	0.348	9.81
31	2981	0.349		9.88		.00		
32	10832	0.354		9.73		+ .15	0.359	9.79
33	8290	.357		9.73		+ .15		
34	8058	.358		9.73		+ .15		
35	12328	.362		9.96		- .08		
36	11288	.366		9.80		- .08		
37	220	0.402		9.73		+ .15	0.417	9.82
38	2246	.404		10.03		- .15		
39	9072	.412		9.73		+ .15		
40	6143	.420		9.88		.00		
41	18313	.445		9.73		+ .15		
42	12986	0.455		9.88		.00	0.478	9.83
43	12030	.455		9.73		+ .15		
44	7230	.487		9.73		+ .15		
45	12813	.495		10.03		- .15		
46	6720	.498		9.80		+ .08		

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	Plate No	Phase		Mag		Res	Mean		
		+	-				Phase	Mag	
47	21941	0.502	9	9.77	2	+ .11	0.524	9.74	0.520 9.79
48	3370	.538		9.80	2	+ .08			
49	4720	.548		9.64	2	+ .24			←
50	11014	0.606		9.77	2	+ .11	0.615	9.93	
51	18574	.610		10.07	2	- .19			
52	3520	.619		9.96		- .08			
53	5907	0.652		9.80		+ .08	0.679	9.87	
54	17131	.659		10.04	2	- .16			
55	2328	.679		9.96	2	- .08			
56	2404	.691		9.73		+ .15			
57	13650	.692		9.96		- .08			
58	10060	.698		9.73		+ .15			
59	3230	0.701		9.96		+ .08	0.708	9.96	
60	8110	.702		9.96		- .08			
61	9166	.713		9.88		.00			
62	6973	.716		10.03		- .15			
63	3984	0.763		10.03		- .15	0.765	9.88	
64	13356	.766		9.73		+ .15			
65	3292	0.801		9.73		+ .15	0.814	9.87	
66	14588	.802		10.07	2	- .19			
67	3505	.804		9.77	2	+ .11			
68	9881	.811		9.88		.00			
69	12344	.818		10.03		- .15			
70	8153	.828		9.73		+ .15			
71	23151	.834		9.88		.00			

	Plate #	Phase		Mag		res	Mean	
		+	-				Phase	Mag
72	12868	0.862		9.73		+ .15	0.871	9.81
~~73~~	~~443~~	~~864~~		~~10.04~~	~~2~~	~~1.00~~		
74	6901	.871		9.96		-.08		
75	19616	.881		9.73		+ .15		
76	18600	0.906		9.88		.00	0.920	9.90
77	663	.912		10.03		-.15		
78	20859	.917		9.96		-.08		
79	2399	.927		9.73		+ .15		
80	148616	.940		9.88		.00		
81	17483	0.950		9.88		.00	0.959	9.81
82	2258	.967		9.73		+ .15		
83	16370	1.000		9.80		+ .08	1.012	9.88
84	5316	.013		9.96		-.08		
85	6174	1.061		9.73		+ .15	1.075	9.84
86	2361	.1062		9.73		+ .15		
87	14826	.1073		9.88		.00		
88	2157	.1083		9.88		.00		
89	14883	.1096		9.96		-.08		
90	3462	1.101		9.88		.00	1.103	9.90
91	16166	.101		10.03		-.15		
92	8913	.102		9.88		.00		
93	5946	.107		9.80		+ .08		

1.092

1.064

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	Plate No	Phase		Mag	res	Mean		
		+	-			Phase	Mag	
94	8342	1.163		9.96	-.08	1.173	9.90	.994
95	13619	.168		10.03	-.15			
96	18685	.180		9.73	+.15			
97	2943	.183		9.88	.00			
98	22063	1.205		10.00	2 -.12	1.227	9.96	.940
99	12880	.209		9.92	2 -.04			
100	23090	.214		9.96	2 -.08			
101	12312	.225		9.96	2 -.08			
102	15808	1.258		9.92	2 -.04	1.267	9.94	.900
103	17971	.275		9.96	2 -.08			
104	12929	1.307		9.92	2 -.04	1.326	9.81	.841
105	23126	.317		9.77	2 +.11			
106	7405	.326		9.68	2 +.20			
107	15961	.329		9.92	2 -.04			
108	14831	.333		9.77	2 +.11			
109	6647	.341		9.81	2 +.07			
110	21368	1.356		10.03	-.15	1.366	9.94	.801
111	8237	.361		9.96	-.08			
112	23005	.369		10.02	2 -.14			
113	18378	.398		9.88	.00			
114	12989	1.407		9.88	.00	1.427	9.84	.740
115	4732	.421		9.73	+.15			
116	2283	.438		9.88	.00			
117	8028	.441		9.88	.00			

	Plate No	Phase		Mag	P ₂	Mean		
		+	-			Phase	Mag	
118	12325	1.572		9.96	-.08	1.520	9.85	.647
119	9254	.528		9.73	+.15			
120	10214	1.555		10.03	-.15	1.574	9.95	.593
121	1008	.561		9.64	+.24			
122	21209	.565		10.03	-.15			
123	8882	.577		9.88	.00			
124	2375	.580		9.96	-.08			
125	11119	.580		9.96	-.08			
126	18062	.581		10.03	-.15			
127	13762	.593		9.96	-.08			
128	13425	1.635		9.96	-.08	1.640	9.90	.527
129	8354	.640		9.88	.00			
130	3450	.641		9.73	+.15			
131	7270	.643		10.03	-.15			
132	5320	1.651	0.516	9.80	+.08	1.668	9.85	.494
133	5982	.651	0.516	10.03	-.15			
134	9308	.651	0.516	9.73	+.15			
135	5197	.690	0.477	9.96	-.08			
136	17287	.698	0.469	9.73	+.15			
137	14810	1.781	0.386	9.96	-.08	1.787	9.81	.388
138	3283	.787	0.380	9.73	+.15			
139	3512	.792	0.375	9.73	+.15			
140	7948	1.813	0.354	9.88	.00	1.834	9.86	.333
141	5833	.842	0.325	9.96	-.08			
142	5751	.848	0.319	9.73	+.15			
143	132	1.825	0.292	9.88	2	1.875	9.88	.292

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	Plate No	Phase		Mag		Mean		
		+	-			Phase	Mag	
144	8105	1.905	0.262	9.96		1.913	9.88	254
148	507	.906	0.261	9.96	2			
146	7998	.927	0.240	9.73	2			
147	15999	1.976	0.191	10.10	2	1.983	10.05	184
148	15944	1.989	0.178	10.00	2			
148	11443	1.995		10.00				
149	11443	1.995	0.172	10.03	2	2.006	10.00	161
150	5573	2.017	0.150	9.96	2			
150	12695	2.023	0.144	10.10	2	2.031	10.11	136
152	13462	2.039	0.128	10.21	3			
153	5678	2.043	0.124	10.17	2	2.053	10.17	114
154	12151	.052	0.115	10.17	2			
155	14716	.059	0.108	10.17	2			
156	10225	.060	0.107	10.17	2			
157	12116	2.072	0.095	10.28	2	2.077	10.23	090
158	4141	.074	0.093	10.20	3			
159	19497	.076	0.091	10.23	3			
160	4820	.077	0.090	10.23	2			
161	22423	.084	0.083	10.23	2			
162	13830	2.095	0.072	10.51	2	2.102	10.45	068
163	23049	.098	0.069	10.34	2			
164	13331	.113	0.054	10.51	2			

	Plate No	Phax		Mag		Mean		
		+	-			Phax	deg	
165	5499	2.119	0.048	10.67	2	2.125	10.69	.042
165	21236	2.119	0.048	10.78	2			
168	6832	.120	0.047	10.64	3			
168	23196	.125	0.042	10.66	3			
169	1838	.133	0.034	10.71	2			
170	1082	.135	0.032	10.67	3			
170	5883	2.147	0.020	10.76	2	2.153	10.68	.014
172	17162	.158	0.009	10.60	2			

SV Tauri

Instrument: 12" zenith telescope

Photometer: T

Min. = J.D. 2419812.307 + 2.166 875 (V.J.S. 1924)

Date G.C.T.	Julian Day	N	Phase	Obs. Magn	Date G.M.T.	Jul. Day	
1925	2,424,				1925	2,424	
Febr. 14	196.088	2022	1.863	9.28	Feb. 13	195.588	1.863
15	197.024	2023	0.632	9.30	14	196.524	0.632
15	197.036	2023	0.644	9.35	14	196.536	0.644
15	197.056	2023	0.664	9.43	14	196.556	0.664
15	197.067	2023	0.675	9.41	14	196.567	0.675
15	197.085	2023	0.693	9.28	14	196.585	0.693
17	199.026	2024	0.467	9.50	16	198.526	0.467
17	199.048	2024	0.489	9.63	16	198.548	0.489
17	199.057	2024	0.498	9.56	16	198.557	0.498
17	199.073	2024	0.514	9.61	16	198.573	0.514
17	199.086	2024	0.527	9.49	16	198.586	0.527
17	199.101	2024	0.542	9.36	16	198.601	0.542
19	201.104	2025	0.377	9.45	18	200.604	0.377
19	201.117	2025	0.390	9.63	18	200.617	0.390
19	201.129	2025	0.402	9.19	18	200.629	0.402
19	201.141	2025	0.414	9.41	18	200.641	0.414
19	201.155	2025	0.428	9.51	18	200.655	0.428
19	201.166	2025	0.439	9.43	18	200.666	0.439
19	201.176	2025	0.449	9.53	18	200.676	0.449

Date G.C.T.	Julian Day	N	Phase	obs. Magn	Date G.M.T	Int. Seq	
1925	2,424,				1925		
Febr. 20	202,007	2025	1,280	9.33	Feb. 19	201.507	1.280 (-0.889)
21	203,008	2026	0.117	10.25	20	202.508	0.214
21	203,016	2026	0.125	10.35	20	202.516	0.122
21	203.024	2026	0.133	10.15	20	202.524	0.130
21	203.032	2026	0.141	10.10	20	202.532	0.138
21	203.042	2026	0.151	10.09	20	202.542	0.148
21	203.050	2026	0.159	9.93	20	202.550	0.156
21	203.061	2026	0.170	9.73	20	202.561	0.167
21	203.077	2026	0.186	9.77	20	202.577	0.183
21	203.090	2026	0.199	9.67	20	202.590	0.196
22	204.982	2026	2.091	9.50	22	204.982	2.088 (-0.081)
22	204.994	2026	2.103	9.79	22	204.994	2.100 (-0.069)
23	205.006	2026	2.115	9.76	22	204.506	2.112 (-0.057)
24	206.988	2027	1.927	9.56	24	206.488	1.927 (-0.242)
25	207.006	2027	1.945	9.56	24	206.506	1.945 (-0.224)
25	207.037	2027	1.976	9.63	24	206.537	1.976 (-0.193)
25	207.051	2027	1.990	9.59	24	206.551	1.990 (-0.179)
25	207.071	2027	2.020	9.56	24	206.571	2.010 (-0.159)
25	207.099	2027	2.038	9.62	24	206.599	2.038 (-0.131)
25	207.149	2027	2.058	9.58	24	206.619	2.058 (-0.111)
25	207.156	2027	2.095	9.80	24	206.656	2.095 (-0.074)
25	207.168	2027	2.107	9.78	24	206.668	2.107 (-0.062)
25	207.186	2027	2.125	9.93	24	206.686	2.125 (-0.041)
27	209.014	2028	1.786	9.61	26	208.574	1.786 (-0.283)
27	209.033	2028	1.805	9.46	26	208.533	1.805 (-0.364)

Phase		Obs. Magn.
0.077		10.25
0.125		10.35
0.133		10.15
0.141		10.10
0.157		10.09
0.159		9.93
0.170		9.73
0.186		9.77
0.199		9.67
0.377		9.45
0.390		9.63
0.402		9.19
0.414		9.41
0.428		9.51
0.439		9.43
0.449		9.53
0.467		9.50
0.489		9.63
0.498		9.56
0.514		9.61
0.527		9.49
0.542		9.36
0.632		9.30
0.644		9.35
0.675		9.41

Phase		obs. Magn	
0.693		9.28	
1.280		9.33	
1.786	-0.381	9.61	
1.805	-0.362	9.46	
1.863	-0.304	9.28	
1.927	-0.240	9.56	-
1.945	-0.224	9.56	-
1.976	-0.191	9.63	-
1.990	-0.177	9.59	-
2.020	-0.147	9.56	-
2.038	-0.129	9.62	-
2.058	-0.109	9.58	-
2.091	-0.076	9.50	-
2.095	-0.072	9.80	-
2.103	-0.064	9.79	-
2.107	-0.060	9.78	-
2.115	-0.052	9.76	-
2.125	-0.042	9.93	-

ac 12053
ac 14963

