1930phae.proj.1274C

75

KG
11366
v.272

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

THORP & MARTIN
COMPANY
STATIONERS
66 FRANKLIN STREET
BOSTON
IN RENEWING THE ORDER FOR THIS BOOK IT IS
ONLY NECESSARY TO QUOTE THE NUMBER BELOW.
YOU CAN TELEPHONE THE ORDER.
No. 15351 PR.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj..127C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Index

		Page
R H	1907	2 – 38
	1893	40 – 60
	1894	62 – 88
	1926	90 – 122
	1927	124 – 156
	1910	156 – 162
	1921	164 – 174
	1914	176 – 196
	1915	198 – 218, contained in BK 76, p. 58

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

FMC R+H 1907 Feb. 27, 1930

Cont. from 74, pg. 90

Strip	class	star	y	y	Diff	Diff	cc	Dh	Volts
16.2	f	25	1620	421	665	620	737	100	
	f	26	1620	865	468	440	758	108	
	p	14	1631	981	582	—	758	109	
	f	27	1620	1179	512	529	760	110	
		18	1970	833	105	—	692	098	
		1	1880	480	120	—	720	098	
		2	—	—	150	—	735	108	
		3	—	—	190	—	678	115	
		4	—	—	201	—	705	110	
		5	—	—	230	—	750	109	
		6	—	—	328	—	768	108	
		7	—	—	370	—	777	103	
		8	—	—	560	—	715	109	

Mrk R.H 1907 Feb 28, 1930 5.18.

		18	1970	860	100	—	708	092	
		1	1880	509	120	—	740	090	
		2	—	—	132	—	765	089	
		3	—	—	174	—	753	090	
		4	—	—	185	—	748	090	
		5	—	—	252	—	760	087	
		6	—	—	344	—	755	085	
		7	—	—	384	—	774	086	
		8	—	—	540	—	785	084	
16.4	p	15	1650	808	448	—	755	082	
	f	28	1645	1080	518	530	775	090	
16.6	f	29	1667	827	535	555	798	090	
	p	16	1670	924	398	—	760	089	
16.8	f	30	1696	663	530	580	768	090	
	p	17	1688	908	300	—	760	093	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

ce-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
637	565	520	885	815	off curve	
650	360	332	554	510	7.81, 7.68	
649	473	—	727	—		
650	402	419	616	645	7.99, 8.08	
594	7	—	12	—		
622	22	—	35	—		
627	42	—	67	—		
563	75	—	133	—		
595	91	—	153	—		
641	121	—	188	—		
660	220	—	334	—		
674	267	—	396	—		
606	451	—	745	—		
616	8	—	13	—		
650	30	—	46	—		
676	43	—	64	—		
663	84	—	127	—		
658	95	—	144	—		
673	165	—	246	—		
670	259	—	286	—		
688	298	—	434	—		
701	456	—	650	—		
673	366	—	545	—		1166
685	428	440	626	642	8.07, 8.14	
708	445	465	627	655	8.07, 8.21	
671	309	—	460	—		1251
678	440	490	650	720	7.69, off curve	
667	207	—	310	—		1242

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

mkD RH1907 Feb. 28, 1930

Strip	Class	Star	y	x	Defl	Defl	ll	Dk	
	f	31	1680	1002	455	455	768	092	
	fp	18	1690	1078	580	—	762	090	
	f	32	1692	1079	270	290	760	090	
17.0	fp	19	1700	968	420	—	760	090	
	f	33	1710	958	460	460	750	092	
	f	34	1704	1072	450	445	764	094	5.1
	f	35	1704	1254	110	112	747	098	
17.2	f	36	1730	625	542	540	750	100	
	f	37	1724	718	462	460	775	115	
	fp	20	1737	719	420	—	770	108	
	f	38	1729	873	280	290	768	110	
	fp	21	1730	940	310	—	772	105	
	f	39	1730	1114	450	460	758	100	
	f	40	1737	1319	445	452	755	100	
		15	1970	860	097	—	700	090	
		1	1880	509	110	—	722	090	
		2	—	—	140	—	750	090	
		3	—	—	170	—	740	090	
		4	—	—	184	—	740	090	
		5	—	—	228	—	750	090	
		6	—	—	324	—	758	090	
		7	—	—	357	—	760	085	
		8	—	—	552	—	762	088	

RTMC
R A 1907
Feb. 28, 1930

15	1970	860	100	—	668	091	
1	1880	509	120	—	691	090	
2	—	—	141	—	710	091	
3	—	—	180	—	715	089	
4	—	—	200	—	692	090	
5	—	—	240	—	715	090	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl Dk	Defl Dk	Defl Dk	Red Defl	Red Defl	Mag	L No
676	363	363	536	536	7.67, 7.67	
672	490	—	730	—		
670	180	200	268	298	6.70, 6.84	
670	330	—	493	—		1246
658	368	368	558	558	7.77, 7.77	
670	356	351	532	524	7.66, 7.63	
649	12	14	18	21	3.20 3.40	
650	442	440	678	676	8.30, 8.29	
660	347	345	525	523	7.63, 7.62	
662	312	—	472	—		1109
658	170	180	258	272	6.66, 6.73	
667	205	—	307	—		1279
658	350	360	530	545	7.65, 7.71	
655	345	352	527	537	7.64, 7.68	
610	7	—	11	—		
632	20	—	32	—		
660	50	—	76	—		
650	80	—	123	—		
650	94	—	145	—		
660	138	—	208	—		
668	234	—	350	—		
675	272	—	404	—		
674	464	—	688	—		
577	9	—	16	—		
601	30	—	50	—		
619	50	—	81	—		
626	91	—	145	—		
602	110	—	183	—		
625	150	—	240	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RH 1907 Feb. 28, 1930

Strip	class	star	y	+	Diff	Diff	dl	Dk	Volt
		6	—	—	348	—	725	082	
		7	—	—	385	—	759	090	
		8	—	—	520	—	692	090	
17.4	p	22	1741	349	619	—	722	091	
	p	23	1750	372	491	—	703	090	
	f	41	1749	420	550	582	700	091	
	f	42	1748	425	600	680	720	093	
	f	43	1741	520	395	390	720	092	
	f	44	1742	529	625	640	730	090	
	f	45	1750	562	510	580	720	089	
	f	46	1758	583	342	383	742	098	
	f	47	1758	673	180	190	730	090	
	f	48	1750	690	212	240	741	093	
	f	49	1748	719	539	642	750	095	
	f	50	1748	790	589	610	750	100	
	p	24	1750	824	549	—	752	100	
	p	25	1759	1040	182	—	765	109	
	f	51	1749	1100	527	590	730	100	
	f	52	1750	1150	578	578	750	095	
	p	26	1750	1160	538	—	760	098	
	p	27	1750	1322	574	—	760	110	
17.6	f	53	1764	411	540	558	770	129	
	f	54	1770	511	581	640	750	118	
	f	55	1770	738	400	415	771	095	
	f	56	1768	880	480	495	690	088	
	p	28	1760	930	520	—	740	080	
	f	57	1767	1126	461	469	740	078	
	f	58	1769	1190	598	640	740	073	
	f	59	1770	1209	568	590	730	072	
	f	60	1761	1251	420	450	725	070	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
643	266	—	415	—		
669	295	—	441	—		
602	430	—	715	—		
631	528	—	838	—		
613	401	—	653	—		926 X
609	459	491	755	805	8.38, off curve	
627	507	587	810	935	off curve, off curve	
628	303	298	483	475	7.47, 7.46	
640	535	550	835	860	off curve, off curve	
631	421	491	666	778	8.03, off curve	
644	244	285	379	432	7.18, 7.33	
640	90	100	141	156	5.87, 6.00	
648	119	147	184	226	6.29, 6.54	
655	444	547	679	835	8.08, off curve	
650	489	510	753	786	8.37, off curve	
652	449	—	691	—		1189 V
656	73	—	111	—		56 V
630	427	490	681	780	8.10, off curve	
655	483	483	737	737	8.30, 8.30	
662	440	—	666			
650	464	—	715	—		120 V
641	411	429	640	670	7.94, 8.08	
632	463	522	732	826	8.30, off curve	
676	305	320	451	473	7.40, 7.46	
602	392	407	651	675	7.98, 8.07	
660	440	—	667	—		
662	383	391	579	591	7.75, 7.80	
667	525	567	789	850	off curve, off curve	
658	496	518	753	788	8.46, off curve	
655	360	380	530	580	7.66, 7.76	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

8

FMC RH 1907 Feb. 28, 1930

Mag	class	star	α	δ	Diff α	Diff δ	cl	Dia	Volt
7.8		61	1790	303	320	330	698	070	
		29	1789	359	515	—	703	070	
		62	1799	512	409	400	700	070	
		63	1790	747	573	605	720	070	
		64	1782	1040	549	560	727	070	
		65	1790	1219	443	463	710	070	
		30	1782	1320	530	—	723	070	
18.0		66	1810	412	427	430	700	071	
		67	1817	542	450	460	702	070	
		68	1810	688	518	541	717	072	
		69	1808	873	530	540	735	100	
		70	1810	1009	498	510	739	090	
		71	1804	1267	430	440	720	090	
		72	1809	1300	530	550	730	085	
18.2		31	1831	438	419	—	720	083	
		32	1830	540	501	—	720	083	
		73	1821	587	540	555	729	083	
		33	1820	795	435	—	720	082	
		74	1822	883	348	352	725	081	
		34	1820	990	405	—	721	082	
		35	1820	1147	450	—	730	083	
		75	1831	1195	378	403	728	081	
		18	1970	860	089	—	671	083	
		1	1880	509	111	—	700	080	
		2	—	—	125	—	715	080	
		3	—	—	155	—	670	080	
		4	—	—	167	—	642	080	
		5	—	—	212	—	705	118	
		6	—	—	340	—	752	100	
		7	—	—	370	—	759	115	
		8	—	—	540	—	679	100	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
628	250	260	398	414	7.25, 7.29	
633	445	—	705	—		
630	339	330	537	524	7.62, 7.57	
650	503	535	775	825	off curve, off curve	
657	479	490	729	745	8.28, 8.31	
640	373	393	583	614	7.75, 7.87	
653	460	—	705	—		135 X
629	356	359	566	570	7.71, 7.73	
632	380	390	602	616	7.83, 7.87	
645	446	469	692	726	8.15, 8.27	
635	430	440	676	693	8.08, 8.15	
649	408	420	630	646	7.92, 7.96	
630	340	350	540	555	7.63, 7.69	
645	445	465	690	720	8.12, 8.25	
637	336	—	526	—		907 ✓
637	418	—	656	—		948 ✓
646	457	472	706	728	8.19, 8.27	
638	353	—	553	—		1171 ✓
644	264	271	415	421	7.28, 7.32	
639	323	—	505	—		62 ✓
647	367	—	567	—		118 ✓
647	297	322	459	470	7.41, 7.43	
588	6	—	10	—		
620	31	—	50	—		
635	45	—	71	—		
590	75	—	127	—		
562	87	—	155	—		
587	94	—	160	—		
632	220	—	350	—		
644	255	—	396	—		
559	420	—	750	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

10

Zgp - R 4h 1907 - Feb. 28, 1930

Strip	class	star	¥	+	Diff	Diff	cc	Dh	Volt
		10	1970	860	103	—	650	100	510
		1	1880	509	118	—	677	097	
		2	—	—	198	—	700	092	
		3	—	—	167	—	699	092	
		4	—	—	176	—	634	091	
		5	—	—	220	—	711	092	
		6	—	—	209	—	721	093	
		7	—	—	261	—	726	093	
		8	—	—	513	—	728	102	
18.4	p	36	1857	517	593	—	713	097	
	p	37	1847	601	536	—	698	099	
	p	38	1842	684	618	—	709	093	
	p	76	1846	783	577	586	723	092	
	p	77	1851	803	269	260	728	093	
	p	78	1841	819	257	278	729	099	
	p	79	1850	869	517	593 missing edge link	729	097	
	p		1838	934	592		614-726	097	
	p	39	1853	1039	528	—	737	100	
	p	80	1857	1132	402	438	729	092	
	p	81	1851	1297	570	579	729	093	
	p	82	1840	1340	130	134	712	091	
18.6	p	83	1863	271	590	623	693	088	
	p	40	1859	322	532	—	681	089	
	p	84	1872	387	288	311	687	088	
	p	85	1872	388	127	130	709	097	
	p	86	1860	397	562	537	698	096	
	p	87	1872	488	463	493	711	091	
	p	88	1867	591	189	200	729	093	
	p	89	1873	785	572	624	729	100	
	p	90	1865	857	512	528	755	101	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk	Defl Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
550	3	—	5	—		
580	21	—	36	—		
608	41	—	67	—		
607	75	—	123	—		
543	85	—	157	—		
619	128	—	206	—		
628	216	—	344	—		
633	268	—	425	—		
626	411	—	656	—		
616	496	—	805	—		
599	437	—	730	—		975 X
616	525	—	850	—		1046 X
631	485	494	770	783	offcurve, offcurve	
635	176	167	278	264	6.77, 6.72	
630	158	179	250	284	6.64, 6.80	
632	420	affected by nuke 296	665	affected by nuke 470	8.27,	
—	—	—	—	—	—	—
637	428	—	672	—		
637	310	346	486	543	7.53, 7.79	
636	477	486	750	765	offcurve, offcurve	
621	39	43	63	69	490, 503	
605	502	535	830	885	offcurve, offcurve	
592	443	—	750	—	892 X	
599	200	223	334	372	7.02, 7.15	
612	30	33	49	54	460, 470	
602	466	441	775	734	offcurve, offcurve	
620	372	402	600	646	8.01, 8.19	
636	96	107	151	168	5.92, 6.09	
623	472	524	756	840	offcurve, offcurve	
654	411	427	629	655	8.11, 8.22	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

ZJP - R H 1907 - Feb. 28, 1930

Ship	class	star	y	x	Dyfe	Dyfe	ce	Dh	Var
		91	1871	871	473	521	753	101	
		92	1875	872	530	543	737	102	
		93	1870	952	621	647	741	101	
		94	1870	1074	897	428	716	101	
	p	41	1868	1109	472	—	730	100	
18.8		95	1878	555	555	557	728	101	
		96	1879	560	556	587	713	092	
		97	1882	618	273	276	722	092	
	p	42	1880	632	569	—	713	091	
		98	1890	1167	513	560	731	091	
		99	1892	1250	614	636	722	093	
19.0	p	43	1898	329	487	—	709	107	
		100	1901	407	537	567	730	113	
	p	44	1901	504	522	—	713	110	
		101	1901	687	609	620	742	106	
		102	1908	643	620	642	710	103	
		103	1910	852	107	109	673	101	
		104	1906	954	442	459	742	101	
		105	1913	971	353	369	747	100	
		106	1909	1151	612	641	743	098	
		107	1910	1249	248	263	722	100	
	p	45	1911	1339	617	—	747	100	
	p	46	1900	1386	628	—	732	100	
19.2		108	1928	409	417	424	730	101	
		109	1920	413	577	613	684	101	
	p	47	1934	443	610	—	721	101	
	p	48	1931	577	520	—	729	103	
		110	1931	598	603	617	733	103	
		111	1932	666	590	623	728	103	
		112	1931	693	639	663	748	108	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
652	372	420	570	645	7.89, 8.18	
635	428	441	675	694	8.34, 8.41	
640	520	546	812	854	off curve, off curve	
615	296	327	481	532	7.53, 7.73	
630	372	—	590	—		
627	454	456	724	726	off curve, off curve	
621	464	495	746	796	off curve, off curve	
630	181	184	288	292	6.80, 6.84	
622	478	—	770	—		917 X
640	422	469	658	731	8.23, off curve	
629	521	543	829	862	off curve, off curve	
602	380	—	632	—		880 X
617	424	454	685	735	8.35, off curve	
603	412	—	682	—		
636	503	514	790	805	off curve, off curve	
607	517	539	851	885	off curve, off curve	
672	6	8	9	12	2.90, 3.10	
641	341	358	532	558	7.73, 7.84	
647	253	269	390	415	7.21, 7.29	
645	514	543	795	840	off curve, off curve	
622	148	163	238	262	6.81, 6.72	
647	517	—	800	—		
632	528	—	836	—		181 X
629	316	323	503	514	7.62, 7.67	
583	476	512	816	878	off curve, off curve	
620	509	—	820	—		
620	417	—	674	—		893 V
630	500	514	794	814	off curve, off curve	
625	487	520	780	830	off curve, off curve	
640	531	455	830	710	off curve, off curve	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

HJP-CH, 1907 — Feb. 28, 1930

Strip	Class	Star	Ty	D	Dye	Dyf	Ce	Dk	Talk
	p	49	1924	909	638	—	760	108	
		113	1924	1053	601	641	731	102	
	p	50	1923	1060	492	—	723	102	
		114	1921	1077	610	608	729	107	
		115	1921	1102	641	650	730	104	
		116	1918	1230	611	599	737	103	
	p	51	1930	1260	298	—	727	102	
		117	1928	1337	617	662	728	101	
		118	1927	1347	529	543	740	101	
19.4		119	1940	495	610	616	727	102	
		120	1951	636	549	599	764	103	
	p	52	1940	707	667	—	739	104	
	p	53	1950	719	617	—	739	103	
		121	1946	752	340	377	723	100	
	p	54	1947	779	598	—	731	100	
	p	55	1941	927	510	—	720	103	
		122	1940	929	472	497	749	103	
	p	56	1939	1407	564	—	758	108	
19.6	p	57	1960	221	367	—	706	109	
		123	1970	893	559	579	734	109	
	p	58	1966	632	541	—	740	107	
		124	1963	702	521	598	739	108	
	p	59	1970	714	432	—	739	106	
		125	1960	721	583	629	757	106	
	p	60	1958	830	640	—	747	107	
		126	1959	868	270	288	738	107	
	p	61	1970	917	612	—	739	117	
		127	1970	921	562	601	741	113	
		128	1967	968	504	560	750	111	
		129	1966	1006	610	635	742	113	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
652	530	—	814	—		
629	499	539	794	855	off curve, off curve	
621	390	—	627	—		
622	503	501	809	805	off curve, off curve	
626	537	546	856	872	off curve, off curve	
634	508	496	804	785	off curve, off curve	
625	196	—	314	—		183 x
627	516	561	824	895	off curve, off curve	
639	428	442	670	690	8.29, 8.38	
625	508	514	814	820	off curve, off curve	
661	446	496	675	750	8.32, off curve	
635	563	—	885	—		1000 x
636	514	—	806	—		
633	240	277	380	437	7.17, 7.38	
631	498	—	790	—		
617	407	—	660	—		105 v
646	369	394	570	610	7.89, 8.04	
650	456	—	762	—		
595	258	—	434	—		844 x
625	444	470	710	750	8.48, off curve	
633	434	—	685	—		2035 x
631	413	430	655	681	8.23, 8.34	
633	326	—	515	—		2r x
651	477	523	735	803	off curve, off curve	
640	533	—	831	—		
631	163	181	258	287	6.68, 6.81	
622	495	—	795	—		
628	449	488	715	776	off curve, off curve	
639	393	449	615	703	8.17, 8.44	
629	497	522	790	828	off curve, off curve	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

NGP-RH 1907 - Feb. 28, 1930

trip	class	star	y	b	Dyll	Dyll	cl	Dk	Volts
		130	1968	1163	630	661	740	111	
		131	1970	1213	649	656	759	112	
		62	1969	1391	481	—	748	110	
		132	1957	1393	289	312	730	109	
		133	1968	1408	661	676	750	110	
19.8		134	1990	282	482	487	710	104	
		63	1980	299	649	—	702	106	
		135	1980	351	582	610	719	104	
		136	1980	377	439	452	721	104	
		137	1983	389	604	603	722	103	
		64	1992	451	576	—	720	103	
		138	1987	619	232	237	709	103	
		65	1989	671	619	—	723	104	
		139	1989	718	237	254	730	101	
		140	1980	769	620	652	734	102	
		141	1990	906	478	502	742	102	
		142	1980	1060	573	586	732	103	
		143	1991	1287	430	481	739	102	
		66	1991	1289	614	—	720	103	
		144	1989	1409	269	269	712	102	
		10	1970	860	107	—	680	107	
		1	1880	509	131	—	699	104	
		2	—	—	152	—	726	103	
		3	—	—	188	—	710	103	
		4	—	—	203	—	696	104	
		5	—	—	253	—	728	103	
		6	—	—	341	—	728	103	
		7	—	—	391	—	729	101	
		8	—	—	529	—	734	103	510

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	LNo
629	519	550	825	874	off curve, off curve	
647	437	444	675	685	8.33, 8.36	
638	371	—	580	—		206 X
631	180	203	285	322	6.81, 6.96	
640	551	566	861	885	off curve, off curve	
606	378	383	624	631	8.11, 8.14	
596	443	—	741	—		840 X
615	478	506	778	822	off curve, off curve	
617	329	348	533	564	7.74, 7.87	
619	501	500	809	808	off curve, off curve	
617	473	—	765	—		
606	129	134	213	220	6.43, 6.47	
619	515	—	830	—		2034 X
629	136	153	216	243	6.43, 6.62	
632	518	550	820	870	off curve, off curve	
640	376	400	586	625	7.96, 8.11	
629	470	483	746	765	off curve, off curve	
631	328	379	520	600	7.69, 8.00	
617	511	—	827	—		
610	167	167	274	274	6.77, 6.77	
573	0	—	0	—		
595	27	—	45	—		
623	49	—	79	—		
607	85	—	140	—		
592	99	—	167	—		
625	150	—	240	—		
625	238	—	280	—		
622	284	—	456	—		
634	426	—	672	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

AGP-RH 1907 - March 11, 1920

Strip	Class	Star	Y	X	Defl	Defl	Cl	Dk	Pots
		1N	1970	868	103	—	653	100	510
		1	1880	516	132	—	682	097	
		2	—	—	143	—	709	096	
		3	—	—	187	—	710	097	
		4	—	—	203	—	711	097	
		5	—	—	261	—	704	092	
		6	—	—	332	—	719	093	
		7	—	—	382	—	732	097	
		8	—	—	532	—	710	094	
20.0	f	145	2000	307	633	632	692	098	
	f	146	2007	452	421	460	692	092	
	f	147	2012	757	598	623	723	097	
	f	148	2000	802	587	594	739	098	
	f	149	2002	1100	249	239	733	101	
	p	67	2002	1116	270	—	738	101	
	f	150	2001	1147	567	604	723	100	
	f	151	2001	1200	478	357	737	100	
	p	68	2001	1208	648	—	742	101	
	f	152	2013	1233	477	510	739	100	
	f	153	2010	1337	543	551	747	102	
20.2	f	154	2030	329	377	400	723	101	
	f	155	2031	598	487	497	741	106	
	f	156	2028	772	597	617	727	103	
	f	157	2029	825	510	523	742	103	
	f	158	2022	969	569	582	731	104	
	f	159	2020	987	631	621	746	107	
	f	160	2019	1018	462	457	741	105	
	p	69	2033	1367	467	—	747	106	
	f	161	2030	1467	643	660	762	107	
20.4	p	70	2040	222	429	—	710	103	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L NO
553	3	—	5	—		
585	35	—	60	—		
613	47	—	77	—		
613	90	—	147	—		
614	106	—	172	—		
612	169	—	276	—		
626	239	—	382	—		
635	285	—	450	—		
613	435	—	710	—		
594	535	534	900	899	off curve, off curve	
600	329	368	547	614	7.57, 7.83	
626	501	526	800	840	off curve, off curve	
641	489	496	763	774	8.51, off curve	
632	148	138	234	218	6.29, 6.19	
637	169	—	265	—		205 v
623	467	504	750	810	8.42, off curve	
637	378	257	594	404	7.76, 7.04	
641	547	—	855	—		
639	377	410	590	640	7.73, 7.92	
645	441	449	684	695	8.10, 8.14	
622	276	299	444	481	7.20, 7.33	
635	381	391	600	615	7.77, 7.83	
624	494	514	790	824	off curve, off curve	
639	407	420	638	657	7.90, 7.88	
627	465	478	740	762	8.38, 8.50	
639	524	514	820	805	off curve, off curve	
636	357	352	560	553	7.62, 7.61	
641	361	—	563	—		
655	536	553	820	844	off curve, off curve	
607	326	—	536	—		809 x

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

DJP - BH 1907 - March 1, 1920

Strip	Class	Star	Y	X	Dgll	Dgll	Clr	Dk	Note
		162	2047	305	392	401	728	107	
		71	2041	312	543	—	714	107	
		72	2049	378	931	—	734	107	
		163	2040	453	508	527	729	104	
		164	2044	458	563	559	719	108	
		165	2051	678	530	554	743	107	
		166	2050	738	630	667	750	107	
		167	2055	911	537	567	739	109	
		73	2043	962	632	—	745	109	
		168	2040	1028	433	468	741	110	
		169	2040	1058	616	633	758	100	
		170	2041	1167	268	287	753	111	
		171	2047	1190	578	668	740	111	
		172	2038	1210	593	627	742	112	
		74	2050	1213	373	—	757	110	
		173	2050	1349	647	669	747	112	
		75	2052	1373	251	—	737	115	
		174	2057	1402	530	546	739	112	
206		175	2061	918	571	571	732	113	
		76	2077	339	507	—	727	114	
		176	2069	639	627	690	720	114	
		177	2063	687	421	459	748	113	
		178	2061	769	393	410	748	112	
		179	2064	822	667	742	743	113	
		180	2060	923	642	686	763	113	
		181	2060	1158	603	620	751	118	
		182	2060	1132	504	537	736	118	
		183	2060	1169	647	667	742	119	
		184	2070	1242	648	684	741	116	
		185	2057	1289	640	682	757	118	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj..12741

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO
621	285	294	458	474	7.25, 7.32	
607	436	—	720	—		807 x
627	224	—	356	—		805 v
619	404	423	653	682	7.87, 8.11	
611	455	451	745	737	8.42, 8.36	
636	423	447	665	704	8.03, 8.20	
643	523	560	815	870	off curve, off curve	
630	428	458	680	728	8.09, 8.32	
636	523	—	820	—		238 x
637	323	358	506	560	7.42, 7.62	
658	516	533	785	810	off curve, off curve	
642	157	176	244	274	6.36, 649	
629	467	557	743	885	8.41, off curve	
630	481	525	764	834	8.51, off curve	
647	263	—	405	—		240 v
635	535	557	843	875	off curve, off curve	
622	136	—	218	—		239 x
627	418	434	668	690	8.03, 8.14	
619	458	458	740	740	8.38, 8.38	
613	393	—	641	—		790 v
616	513	576	830	935	off curve, off curve	
635	308	346	485	545	7.35, 7.57	
636	281	298	442	468	7.20, 7.28	
630	554	629	880	999	off curve, off curve	
650	529	573	815	880	off curve, off curve	
633	485	502	767	792	8.51, off curve	
618	386	419	625	677	7.86, 8.07	
623	528	548	850	880	off curve, off curve	
625	532	568	850	910	off curve, off curve	
639	522	564	815	880	off curve, off curve	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

AGP-RH 1907- March 1, 1930

traj	Class	Star	y	x	Dyff	Dxff	Cl	Dk	Plate
	p	77	2060	1910	602	—	740	118	
	p	78	2069	1337	641	—	758	117	
	p	79	2061	1417	353	—	729	113	
20.8	f	186	2083	283	604	611	693	117	
	f	187	2080	488	568	581	732	113	
	p	80	2090	570	524	—	723	114	
	f	188	2080	727	560	573	753	116	
	f	189	2081	921	382	413	772	113	
	f	190	2083	1019	349	362	740	117	
	p	81	2080	1194	611	—	750	114	
	p	82	2092	1347	560	—	746	116	
	f	191	2079	1367	639	651	751	119	
	f	192	2087	1497	272	283	741	113	
21.0	f	193	2100	227	591	591	713	118	
	p	83	2112	257	520	—	698	118	
	f	194	2110	383	353	361	727	119	
	f	195	2110	578	630	643	753	119	
	f	196	2104	676	638	737	757	121	
	f	197	2099	772	248	253	701	121	
	f	198	2107	811	200	209	738	118	
	p	84	2110	1127	510	—	729	121	
	p	85	2110	1263	521	—	761	119	
	f	199	2108	1309	629	632	761	121	
	p	86	2123	1316	722	—	757	122	
	f	200	2106	1353	533	560	748	123	
	f	201	2109	1429	581	577	750	121	
21.2	f	202	2127	514	381	367	721	118	
	f	203	2130	922	610	622	721	121	
	f	204	2120	364	610	632	722	119	
	p	87	2132	382	538	—	713	118	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

cl – Dk	Defl Dk	Diff Dk	Red Defl	Red Defl	Mag	L.No
622	484	—	780	—		
641	530	—	826	—		
616	240	—	390	—		242 X
576	487	494	845	855	off curve, off curve	
619	455	468	735	757	8.36, 8.46	
619	410	—	662	—		765 ✓
637	444	457	695	716	8.16, 8.27	
659	269	300	408	455	7.08, 7.24	
623	232	245	372	393	6.93, 7.02	
636	497	—	781	—		
630	444	—	705	—		225 X
632	520	532	825	842	off curve, off curve	
628	159	170	253	270	6.41, 6.47	
595	473	473	794	794	off curve, off curve	
580	402	—	690	—		
608	234	242	384	396	6.97, 7.01	
634	511	524	806	825	off curve, off curve	
636	517	616	813	970	off curve, off curve	
630	127	132	202	210	6.11, 6.16	
620	82	91	132	147	5.70, 5.80	
602	389	—	646	—		274 X
642	402	—	625	—		264 X
640	502	511	784	799	off curve, off curve	
635	600	—	945	—		
625	410	437	656	700	7.98, 8.19	
629	460	456	730	725	8.34, 8.34	
603	263	249	436	413	7.17, 7.09	
600	489	501	815	835	off curve, off curve	
603	491	513	815	850	off curve, off curve	
595	420	—	705	—		764 X

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

HP - RH 1907 - March 1, 1930

Trip	Class	Star	y	x	Dife	Dife	cl	Dk	Plates
	p	88	2130	417	512	—	722	120	
		205	2131	473	646	640	791	120	
		206	2122	488	627	660	742	119	
		207	2130	562	617	630	733	120	
	p	89	2124	608	637	—	757	121	
		208	2132	693	507	509	732	120	
		209	2130	939	302	302	759	119	
		90	2132	1152	353	—	747	122	
		210	2133	1262	624	658	761	121	
		211	2119	1388	132	133	638	121	
	p	91	2132	1408	582	—	749	120	
		10	1970	868	132	—	687	119	
		1	1880	516	158	—	711	118	
		2	—	—	177	—	722	119	
		3	—	—	210	—	747	119	
		4	—	—	227	—	723	119	
		5	—	—	270	—	731	116	
		6	—	—	370	—	741	113	
		7	—	—	421	—	744	117	
		8	—	—	578	—	731	118	525
JMC RH 1907 Mar 3, 1930		15	1970	892	091	—	623	084	
		1	1880	540	105	—	658	082	
		2	—	—	121	—	682	088	
		3	—	—	160	—	620	084	
		4	—	—	177	—	680	090	
		5	—	—	207	—	675	088	
		6	—	—	332	—	700	091	
		7	—	—	341	—	672	088	
		8	—	—	490	—	690	090	
21.4	f	212	2142	410	539	543	680	090	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
602	392	—	650	—		
611	526	520	860	850	off curve, off curve	
623	508	541	816	870	off curve, off curve	
613	497	510	811	833	off curve, off curve	
636	516	—	810	—		722 X
612	387	389	633	635	7.90, 7.91	
640	183	183	286	286	6.53, 6.53	
625	231	—	370	—		279 ✓
640	503	537	785	840	off curve, off curve	
517	11	12	21	23	2.75, 2.80	
629	462	—		—		
568	13	—	23	—		
593	40	—	68	—		
603	58	—	96	—		
628	91	—	145	—		
604	108	—	179	—		
615	154	—	250	—		
628	257	—	408	—		
624	304	—	487	—		
613	455	—	740	—		
539	7	—	13	—		
576	23	—	40	—		
594	33	—	56	—		
536	76	—	142	—		
590	87	—	148	—		
587	119	—	203	—		
609	241	—	396	—		
584	253	—	434	—		
600	400	—	666	—		
590	449	453	760	765	8.59, 8.50	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Anc R # 1907 Mar. 3, 1930

Strip	class	star	y	x	Dyf	Dyf	cl	Dh
21.4	f	213	2141	433	482	500	705	090
	p	92	2142	490	467	—	701	090
	f	214	2149	592	400	402	720	097
	f	215	2157	725	430	437	711	095
	f	216	2140	740	550	559	714	091
	f	217	2150	980	440	470	735	095
	f	218	2150	1018	400	420	730	092
	f	219	2149	1368	190	203	712	090
	p	93	2141	1442	439	—	730	093
21.6	p	94	2172	309	515	—	690	100
	f	220	2171	631	548	590	717	098
	f	221	2160	700	410	450	710	100
	p	95	2175	720	228	—	730	100
	f	222	2170	758	400	429	729	103
	f	223	2170	800	545	560	731	101
	f	224	2178	922	321	328	753	100
	f	225	2168	1050	155	170	740	100
	p	96	2160	1196	261	—	739	100
	f	226	2171	1210	560	589	720	100
	f	227	2168	1400	521	518	730	100
21.8	f	228	2181	440	470	472	680	101
	f	229	2190	558	329	340	720	100
	f	230	2190	663	210	228	710	100
	f	231	2190	675	425	429	715	100
	f	232	2188	790	390	400	730	100
	f	233	2190	828	490	530	720	100
	f	234	2198	828	195	209	730	095
	f	235	2192	980	520	525	715	092
	f	236	2181	998	487	522	720	100
	f	237	2198	1019	511	530	720	100

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12741

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
615	392	410	637	666	8.20, 8.30	
611	377	—	617	—		748 V
623	303	305	486	490	7.60, 7.62	
616	335	342	543	555	7.84, 7.88	
623	459	468	737	754	off curve, off curve	
640	345	375	539	585	7.81, 7.99	
638	308	328	483	514	7.62, 7.73	
622	100	113	161	209	6.10, 6.43	
637	346	—	544	—		
590	415	—	705	—		758 X
619	450	492	726	794	off curve, off curve	
610	310	350	507	574	7.68, 7.93	
630	128	—	203	—		627 X
626	317	326	506	520	7.68, 7.74	
630	444	459	705	729	off curve, off curve	
653	221	228	338	349	7.05, 7.08	
640	55	70	86	109	5.26, 5.55	
639	161	—	252	—		294 V
620	460	489	742	789	off curve, off curve	
630	421	418	668	665	8.31, 8.29	
579	369	371	637	640	8.29, 8.21	
620	229	240	370	386	7.18, 7.25	
610	110	128	180	210	6.23, 6.46	
615	325	329	527	535	7.77, 7.81	
630	290	320	460	506	7.50, 7.68	
620	390	430	630	695	8.17, 8.44	
635	100	114	158	220	6.06, 6.50	
623	428	433	689	695	8.40, 8.44	
620	387	422	624	680	8.14, 8.36	
620	411	430	662	694	8.28, 8.43	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RH 1907 Mar. 3, 1930

Strip	class	star	y	x	Defx	Defy	a	Dh
21.8	f	238	2190	1100	471	480	720	100
	f	239	2181	1409	429	412	725	100
22.0	f	240	2209	315	300	300	690	100
	f	241	2200	957	460	450	700	100
	f	242	2213	473	480	462	675	100
	f	243	2200	1028	455	485	719	100
	p	97	2200	1060	400	—	695	099
	p	98	2210	1220	397	—	729	100
	f	244	2205	1335	520	488	730	100
	p	99	2218	1352	385	—	721	100
	f	245	2200	1380	542	600	728	100
22.2	f	246	2232	293	520	543	701	102
	f	247	2221	362	460	505	690	100
	f	248	2221	410	255	269	689	100
	f	249	2220	531	459	470	705	100
	f	250	2237	638	405	420	710	100
	f	251	2220	1109	381	385	730	109
22.4	f	252	2240	370	480	492	700	108
	p	100	2240	701	410	—	700	100
	f	253	2250	939	395	450	722	100
	f	254	2250	962	535	580	735	099
	f	255	2249	1148	550	520	720	100
	f	256	2259	1259	490	490	728	100
22.6	f	257	2260	362	461	478	685	100
	p	102	2272	500	469	—	702	100
	p	103	2272	580	469	—	720	100
	f	258	2260	659	529	590	692	100
	p	104	2270	660	250	—	712	105
	p	105	2271	1020	505	—	731	110
	f	259	2277	1128	130	130	718	100

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO.
620	371	380	597	613	8.05, 8.10	
625	329	312	525	500	7.76, 7.65	
590	~~200~~	~~200~~	338	338	7.06, 7.06	
600	360	350	600	584	8.05, 8.00	
575	380	362	660	630	8.28, 8.17	
619	355	385	574	623	7.96, 8.14	
596	321	—	537	—		338 v
629	297	—	473	—		
630	~~420~~	388	665	615	8.30, 8.12	
621	285	—	459	—		297 +
628	442	500	702	795	off curve	
599	418	441	699	735	off curve	
590	360	405	610	685	8.09, 8.40	
589	155	169	263	286	6.73, 6.83	
605	359	370	593	610	8.03, 8.09	
610	~~305~~	320	500	524	7.65, 7.76	
621	272	276	437	444	7.42, 7.44	
592	372	384	630	650	8.17, 8.24	
600	310	—	515	—		601 v
622	295	350	475	564	7.55, 7.93	
636	436	481	685	755	8.40, off curve	
620	450	~~420~~	725	677	off curve, 8.36	
628	390	390	620	620	8.13, 8.13	
585	361	378	616	645	8.11, 8.24	
602	369	—	614	—		688 v
620	369	—	595	—		664 x
592	429	490	725	828	off curve	
607	145	—	238	—		625 v
621	395	—	635	—		
618	30	30	48	48	4.50, 4.50	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Jmc RH 1907 Mar. 3, 1930

Strip	class	Star	y	x	Dyf	Dyf	a	Dh
22.6	f	260	2275	1142	481	510	720	100
	f	261	2275	1230	450	470	715	101
22.8	f	262	2290	501	472	510	700	101
	f	263	2297	640	455	440	708	101
	fp	106	2288	845	520	—	730	100
	f	264	2280	870	410	400	720	110
	f	265	2291	980	489	485	760	120
	f	266	2281	1150	450	479	733	122
23.0	fp	107	2310	600	360	—	720	110
	f	267	2318	946	440	458	738	110
	f	268	2311	1192	512	525	720	103
		IS	1970	892	110		660	103
		1	1880	540	128	—	685	100
		2	—	—	150	—	710	101
		3	—	—	170	—	689	102
		4	—	—	199	—	669	100
		5	—	—	220	—	700	101
		6	—	—	329	—	709	103
		7	—	—	350	—	710	100
		8	—	—	523	—	720	110
Jmc Mars 30 RH 1907		IS	1970	892	091	—	651	089
		1	1880	540	111	—	699	087
		2	—	—	140	—	710	088
		3	—	—	168	—	691	089
		4	—	—	192	—	720	100
		5	—	—	241	—	720	100
		6	—	—	950	—	745	100
		7	—	—	383	—	750	100
		8	—	—	520	—	737	098
23.2	f	269	2330	310	592	571	702	094

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L.No
620	381	410	615	660	8.11, 8.28	
614	349	369	569	601	7.94, 8.06	
599	371	409	619	683	8.13 8.37	
607	354	339	583	558	8.00, 7.90	
630	420	—	666	—		496x
610	300	290	490	475	7.62, 7.55	
640	369	365	576	570	7.97, 7.95	
611	328	357	536	584	7.83, 8.00	
610	250	—	410	—		642v
628	330	348	525	554	7.77, 7.87	
617	409	422	664	682	8.30, 8.37	
557	7	—	12	—		
585	28	—	48	—		
609	49	—	81	—		
587	68	—	116	—		
569	99	—	174	—		
599	119	—	199	—		
606	226	—	372	—		
610	250	—	410	—		
610	413	—	675	—		
562	2	—	4	—		
612	24	—	39	—		
622	52	—	84	—		
602	79	—	131	—		
620	92	—	148	—		
620	141	—	228	—		
645	250	—	388	—		
650	283	—	435	—		
639	422	—	660	—		
608	498	477	820	785	off scale	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC QH 1907 Mar. 5, 1930

Strip	class	star	y	x	Diff	Diff	cc	Dh
23.2	p.	108	2321	481	417	—	720	091
	f	270	2339	580	318	333	732	091
	f	271	2330	689	561	579	750	095
	f	272	2320	819	308	280	733	090
	f	273	2321	845	388	405	733	090
23.4	p	109	2350	698	330	—	710	095
	f	274	2351	640	639	640	692	093
	f	275	2340	663	385	391	738	090
	f	276	2351	693	300	300	738	091
	p	110	2358	788	530	—	730	095
	p	111	2352	1005	512	—	748	091
	p	112	2340	1187	502	—	740	100
23.6	p	113	2370	419	519	—	710	098
	f	277	2369	429	451	455	705	090
	f	278	2370	458	553	602	709	091
	f	279	2370	660	480	477	739	098
	p	114	2369	680	420	—	750	098
	f	280	2370	849	210	210	730	098
23.8	p	115	2398	369	469	—	700	091
	f	281	2390	588	580	628	721	090
	f	282	2382	650	551	527	725	090
	p	116	2380	718	400	—	748	090
	f	283	2390	1025	599	600	735	093
	f	284	2390	1073	562	600	720	090
	f	285	2381	1302	419	430	745	090
24.0	f	286	2402	350	455	475	710	090
	f	287	2400	375	578	580	700	091
	f	288	2402	451	502	493	720	092
	f	289	2409	491	401	420	700	100
	f	290	2400	492	539	550	700	092

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
629	326	—	517	—		679 v
641	227	242	354	378	6.97, 7.07	
655	466	484	712	737	off curve	
643	218	190	340	296	6.92, 6.74	
643	298	315	464	490	7.43, 7.53	
615	235	—	382	—		606 v
599	546	547	911	913	off curve	
648	295	301	455	464	7.37, 7.43	
647	209	209	323	323	6.85, 6.85	
635	435	—	685	—		
657	421	—	640	—		425 v
640	402	—	626	—		
612	421	—	689	—		681 x
615	361	365	586	594	7.95, 7.98	
618	462	511	745	825	off curve	
631	382	379	605	600	8.04, 8.00	
652	322	—	494	—		587 v
632	112	112	190	190	6.18, 6.18	
609	378	—	620	—		683 x
631	490	538	776	854	off curve	
635	461	437	725	690	off curve, 8.38	
658	310	—	470	—		570 v
642	506	507	790	791	off curve	
630	472	510	748	810	off curve	
655	329	340	503	520	7.58, 7.65	
620	365	385	588	620	7.96, 8.08	
609	487	489	800	803	off curve	
628	410	401	652	637	8.22, 8.16	
600	301	320	501	534	7.56, 7.73	
628	447	458	712	730	off curve	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC R+ 1907 Mar. 5, 1930

Strip	class	star	y	x	Diff	Diff	d	Dh
24.0	f	291	2409	610	562	550	711	100
	fp	117	2412	747	535	—	730	098
	f	292	2410	930	580	585	740	098
	f	293	2412	1210	481	500	728	095
	f	294	2400	1318	561	568	741	100
24.2	f	295	2430	410	520	520	720	095
	f	296	2430	460	550	585	718	095
	f	297	2439	673	262	280	740	095
	f	298	2438	777	579	582	732	097
	f	299	2428	831	575	590	741	100
	f	118	2429	980	440	—	740	100
	f	300	2422	1289	260	268	750	098
	f	301	2431	1291	602	620	734	098
24.4	f	302	2450	408	415	430	690	098
	fp	119	2458	440	165	—	728	101
	fp	120	2458	472	479	—	719	100
	fp	121	2450	658	520	—	739	095
	f	303	2451	875	498	529	758	098
	f	304	2440	1080	391	350	738	100
✓	fp	122	2450	1081	460	—	768	100
		1S	1970	892	109	—	683	100
		1	1880	540	130	—	710	102
		2	—	—	151	—	728	103
		3	—	—	210	—	740	102
		4	—	—	202	—	717	100
		5	—	—	256	—	718	100
		6	—	—	382	—	733	100
		7	—	—	388	—	742	105
		8	—	—	538	—	740	108

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

d-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO
611	462	450	755	737	off curve	
632	437	—	684	—		
642	482	487	751	759	off curve	
633	386	405	609	639	8.05, 8.16	
641	461	468	718	732	off curve	
625	425	425	680	679	8.35, 8.35	
623	455	490	781	787	off curve	
645	167	185	257	287	6.55, 6.69	
635	482	485	757	759	off curve	
641	475	490	742	765	off curve	
640	340	—	532	—		451 v
652	162	170	249	261	6.51, 6.56	
636	504	522	794	820	off curve	
592	317	332	536	561	7.74, 7.84	
627	64	—	102	—		660 x
619	379	—	613	—		647 x
644	425	—	660	—		588 x
660	400	431	606	653	8.04, 8.23	
638	291	250	457	392	7.38, 7.14	
668	360	—	538	—		
583	9	—	15	—		
608	28	—	46	—		
625	48	—	77	—		
638	108	—	170	—		
617	102	—	165	—		
618	155	—	250	—		
633	282	—	445	—		
637	283	—	445	—		
632	430	—	680	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

M.R.D. RH 1907 Mar. 6, 1920

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volts	
		13	1970	847	100	—	685	090	52	
		1	1880	493	130	—	710	092		
		2	—	—	160	—	727	092		
		3	—	—	200	—	740	096		
		4	—	—	230	—	722	094		
		5	—	—	290	—	735	092		
		6	—	—	360	—	740	095		
		7	—	—	391	—	753	100		
		8	—	—	565	—	760	100		
24.6	f	123	2470	342	570	—	710	100		
	f	305	2462	349	500	510	700	100		
24.8	f	306	2489	753	560	565	743	100		
	f	307	2485	783	570	590	760	104		
	f	308	2491	983	525	515	758	104		
	fp	124	2482	1038	357	—	760	105		
25.0	f	309	2502	391	488	491	740	109		
	fp	125	2509	721	532	—	764	109	5.7	
	f	310	2500	1200	532	540	760	113		
25.2	f	311	2522	428	525	538	735	110		
	f	312	2530	474	394	410	738	110		
	fp	126	2521	732	274	—	760	118		
	f	313	2517	831	542	540	757	115		
	fp	127	2520	903	340	—	765	115		
	fp	128	2534	954	532	—	765	110		
25.4	f	314	2548	762	320	344	750	110		
	f	315	2558	847	465	460	764	110		
25.6	f	316	2566	753	528	545	750	107		
	fp	129	2570	1060	560	—	755	110		
	f	317	2558	1127	475	490	760	112		
25.8	f	318	2580	755	463	468	750	107		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
595	10	—	16	—		
618	38	—	62	—		
635	68	—	107	—		
644	104	—	162	—		
628	136	—	216	—		
643	198	—	308	—		
645	265	—	411	—		
653	291	—	445	—		
660	465	—	705	—		
610	470	—	772	—		
620	400	410	645	661	8.14, 8.22	
643	460	465	717	722	8.46, 8.47	
654	466	486	712	743	8.44, off curve	
654	421	411	~~647~~ 637	628	8.10, 8.04	
655	252	—	388	—		426 ✗
639	379	382	593	596	7.91, 7.94	
655	423	—	647	—		541 ✓
647	419	427	649	661	8.16, 8.22	
625	415	428	664	686	8.24, 8.34	
628	284	300	452	477	7.34, 7.43	
642	156	—	243	—		536 ✗
642	427	425	665	663	8.24, 8.25	
650	225	—	343	—		479 ✗
655	422	-	644	—		457 ✗
640	210	234	328	366	6.73, 6.94	
654	355	350	543	536	7.69, 7.66	
643	421	438	654	681	8.18, 8.31	
645	450	—	562	—		
648	363	378	560	581	7.78, 7.86	
643	356	351	553	546	7.73, 7.70	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

mkD RH 1907 Mar 6, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Obs	Volts
	f	319	2590	940	552	558	778	110	508
26.0	f	320	2595	590	545	532	739	110	
	f	321	2614	618	310	325	740	110	
	f	322	2600	630	580	592	754	110	
	f	323	2602	772	538	540	760	109	
	fp	130	2610	832	570	—	770	110	
	f	324	2600	1024	320	330	760	110	
26.2	f	325	2623	650	520	530	750	113	
26.4	f	326	2648	780	385	410	755	110	
	fp	131	2643	870	460	—	762	111	
	f	327	2640	930	440	470	742	110	
26.6	fp	132	2659	733	520	—	750	110	
		15	1970	847	120	—	687	110	
		1	1880	493	147	—	708	110	
		2	—	—	168	—	730	110	
		3	—	—	208	—	739	110	
		4	—	—	230	—	727	111	
		5	—	—	272	—	732	110	
		6	—	—	364	—	740	117	
		7	—	—	382	—	740	114	
		8	—	—	540	—	744	112	

Plate Diminished

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12741

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L No
668	442	448	660	670	8.22, 8.26	
629	435	422	690	670	8.34, 8.26	
630	200	215	317	341	6.66, 6.78	
644	470	482	730	747	8.50, off curve	
651	429	431	659	661	8.21, 8.22	
660	460	—	696	—		509 X
650	210	220	323	338	6.69, 6.77	
637	407	417	640	655	8.12, 8.19	
645	275	300	426	465	7.23, 7.39	
651	349	—	536	—		498 X
632	330	360	524	570	7.61, 7.82	
640	410	—	640	—		534 X
577	10	—	17	—		
598	37	—	62	—		
620	58	—	94	—		
629	98	—	156	—		
616	119	—	193	—		
622	162	—	260	—		
623	247	—	397	—		
626	268	—	426	—		
632	428	—	680	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC R.A. 1893 Mar. 6, 1930

Grp	class	Star	y	y	Defl	Defl	cl	Dk
		15	1910	730	110	—	951	100
		1	2240	579	168	—	959	100
		2	—	—	208	—	969	100
		3	—	—	290	—	970	100
		4	—	—	330	—	963	100
		5	—	—	394	—	977	100
		6	—	—	505	—	982	103
		7	—	—	580	—	993	102
		8	—	—	823	—	989	108
13.8	f	1	1388	825	691	—	988	104
	f	2	1390	920	372	—	998	104
14.0	f	3	1403	1000	741	—	1009	110
14.2	f	4	1430	902	233	—	1005	110
	f	1	1430	952	510	470	998	109
	f	2	1437	1041	770	178	990	110
14.4	f	3	1440	861	870	822	1001	110
	f	4	1455	871	140	140	1000	109
14.6	f	5	1465	679	832	792	1001	110
	f	6	1469	685	783	704	1009	110
15.0	f	5	1509	762	402	—	1009	115
	f	6	1508	1053	588	—	1015	120
	f	7	1511	1126	450	467	1028	120
	f	8	1518	1168	820	800	1019	115
15.4	f	9	1541	419	598	566	1000	112
	f	7	1549	940	769	—	1003	110
15.6	f	8	1568	460	483	—	995	110
	f	9	1570	570	819	—	1004	110
15.8	f	10	1580	341	740	725	999	110
	f	11	1597	390	810	732	992	110
	f	12	1580	492	768	780	1000	109

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

cl-Dk	Defl-Dk	Defl-Dk	Red. Defl	Red Defl	Mag	LNO
851	10	—	11	—		
859	68	—	79	—		
869	108	—	124	—		
870	190	—	218	—		
863	230	—	266	—		
877	294	—	334	—		
879	402	—	457	—		
891	478	—	536	—		
881	715	—	810	—		
884	587	—	665	—		206 +
894	268	—	300	—		242 + 206
899	631	—	701	—		
895	123	—	137	—		239 +
889	401	361	451	406	7.00, 6.82	
886	660	668	750	760	8.04, 8.07	
891	760	712	850	800	8.40, 8.22	
891	31	31	35	35	3.00, 3.00	
891	722	682	810	765	8.25, 8.09	
899	673	594	747	660	8.02, 7.72	
894	287	—	321	—		183 +
895	468	—	524	—		297 +
908	330	347	364	382	6.63, 6.72	
904	705	685	780	757	8.15, 8.07	
888	486	454	546	510	7.36, 7.24	
893	659	—	738	—		264 +
885	373	—	421	—		51 +
894	709	—	792	—		90 +
889	630	615	708	692	7.88, 7.82	
882	700	622	795	705	8.20, 7.84	
891	659	671	739	753	8.00, 8.05	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RH 1893 Mar 6, 1930

Strip	class	star	y	x	Δeff	Δeff	cl	Δh
15.8	f	10	1591	681	712	—	1010	108
	f	11	1585	870	520	—	995	109
16.0	f	13	1609	919	709	632	995	110
	f	12	1608	422	640	—	989	109
	f	13	1610	430	780	—	990	105
	f	14	1600	638	760	—	997	105
	f	14	1610	1091	791	751	1002	110
16.2	f	15	1632	661	490	464	990	110
	f	16	1621	872	650	620	1008	112
	f	15	1632	1022	660	—	1001	110
16.4	f	16	1655	410	783	—	990	110
	f	17	1640	495	823	—	990	109
	f	17	1650	710	391	370	1005	110
	f	18	1650	970	398	—	989	110
16.6	f	19	1670	807	319	—	998	113
	f	20	1660	940	461	—	1011	115
	f	18	1670	1230	803	760	1000	112
16.8	f	19	1690	427	719	661	995	116
	f	21	1689	553	258	—	981	111
	f	20	1680	820	788	791	993	110
	f	22	1680	912	751	—	1001	111
	f	21	1680	1077	669	647	1010	110
	f	23	1695	1143	803	—	1000	111
17.0	f	24	1701	720	808	—	991	115
	f	22	1708	1110	820	793	1010	120
	f	23	1710	1173	469	470	1015	118
17.2	f	25	1729	478	755	—	990	118
	f	24	1720	710	799	700	1010	115
	f	25	1730	795	810	760	991	115
17.4	f	26	1751	480	670	669	990	120

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Red Dfl	Mpg	L. No.
902	604	—	670	—		
886	411	—	464	—		240 ✓
885	599	522	675	589	7.77, 7.50	
880	531	—	604	—		23 +
885	675	—	763	—		
892	655	—	735	—		118 ✓
892	681	641	764	720	8.09, 7.93	
880	385	354	437	403	6.93, 681	
896	538	508	600	566	7.52, 7.42	
891	550	—	616	—		
880	773	—	879	—		08 +
881	714	—	810	—		
895	281	260	314	290	6.44, 6.33	
879	288	—	328	—		294 ✓
885	206	—	232	—		205 ✓
896	346	—	386	—		279 ✓
888	691	648	779	730	8.14, 7.97	
879	603	545	685	620	7.80, 7.60	
870	147	—	169	—		56 ✓
883	678	681	769	771	8.10, 8.12	
890	640	—	720	—		274 ✓
900	559	537	620	597	7.60, 7.51	
889	692	—	778	—		
876	693	—	790	—		
890	700	673	785	755	8.17, 8.06	
897	351	352	390	392	6.75, 6.76	
872	637	—	731	—		
895	684	585	764	654	8.09, 7.70	
876	695	645	795	735	8.20, 7.98	
870	550	549	632	631	7.63, 7.63	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

FMC RH 1893 Mar. 6, 1920

Trip	class	Star	y	x	Defl	Defl	d	th
17.4	p	26	1750	608	569	—	998	115
	f	27	1748	691	592	565	1001	120
	f	28	1750	989	631	580	991	115
		15	1910	730	132		970	110
		1	2240	579	192		980	110
		2	—	—	250	—	990	110
		3	—	—	261	—	985	110
		4	—	—	385	—	988	110
		5	—	—	382	—	985	110
		6	—	—	560	—	991	110
		7	—	—	600	—	992	110
		8	—	—	850	—	990	110

Repeat RH 1893 March 6, 1920

		10	1910	730	127	—	978	116
		1	2240	579	192	—	973	112
		2	—	—	247	—	987	114
		3	—	—	281	—	988	117
		4	—	—	331	—	971	119
		5	—	—	391	—	987	112
		6	—	—	517	—	991	117
		7	—	—	575	—	992	113
		8	—	—	839	—	994	111
17.6	p	27	1770	266	288	—	966	109
	f	29	1770	350	810	787	977	111
	f	30	1771	949	819	798	983	109
	f	31	1771	1063	862	811	990	109
17.8	p	28	1782	431	827	—	978	116
	p	29	1781	448	552	7[illegible]	982	111
	p	30	1780	510	451	—	973	113
	p	32	1780	810	793	740	980	113
	f							

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk	Defl-Dk	Defl-Dk	Red. Defl	Red Defl	Mag	L. No
883	424	—	480	—		62 ✓
881	472	445	535	505	7.32, 7.22	
876	516	465	590	530	7.50, 7.30	
860	22	—	26	—		
870	82	—	94	—		
880	140	—	159	—		
875	151	—	173	—		
878	275	—	313	—		
875	272	—	310	—		
881	450	—	510	—		
882	490	—	555	—		
880	740	—	840	—		
862	11	—	12	—		
861	80	—	93	—		
873	133	—	153	—		
871	164	—	188	—		
852	212	—	248	—		
875	279	—	319	—		
874	400	—	456	—		
879	462	—	525	—		
883	728	—	825	—		
857	179	—	209	—		1214+
866	699	676	805	780	8.32, 8.21	
874	710	689	812	789	8.35, 8.25	
881	753	702	854	796	offame, 8.27	
862	711	—	825	—		1244 ✓
871	441	—	506	—		1251 ✓
860	338	—	392	—		1279 ✓
867	680	627	784	725	8.23, 8.00	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

2295 - C4 1893 - March 6, 1930

Trip	class	Star	y	x	Dyll	Dyll	a	dk	Notes
		33	1784	890	838	841	988	112	
		31	1790	983	667	—	998	111	
		34	1793	1073	660	653	983	110	
		32	1782	1083	857	—	1002	113	
		35	1790	1153	631	631	987	111	
18.0		33	1799	298	850	—	963	110	
		34	1811	350	521	—	970	109	
		35	1807	461	459	—	969	106	
		36	1810	475	610	—	969	107	
		37	1800	537	768	—	991	112	
		36	1800	550	713	680	978	112	
		37	1801	1059	847	832	990	112	
		38	1817	1358	807	—	991	111	
18.2		38	1837	978	802	737	972	111	
		39	1821	592	633	606	972	117	
		40	1820	914	663	645	980	114	
		41	1834	978	557	531	971	112	
		39	1819	1232	654	—	988	112	
		40	1820	1268	414	—	987	111	
18.4		41	1854	253	640	—	942	108	
		42	1856	307	750	—	960	109	
		42	1838	935	846	860	955	113	
		43	1843	1049	812	—	987	113	
		44	1840	1277	877	—	999	107	
18.6		43	1869	588	871	841	967	107	
		44	1872	768	882	817	979	111	
		45	1868	872	456	421	970	110	
		46	1872	886	397	354	979	110	
		45	1859	990	424	—	992	109	
		46	1873	1127	783	—	979	107	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
876	726	729	830	831	8.40, 8.40	
887	556	—	626	—		338 ✓
873	550	543	630	623	7.64, 7.62	
890	744	—	835	—		
876	520	520	594	594	7.52, 7.52	
853	740	—	867	—		
861	412	—	476	—		1208 ✓
863	353	—	410	—		1242 ✓
862	503	—	584	—		1246 ✓
879	656	—	746	—		
866	601	568	694	655	7.87, 7.73	
878	735	720	836	820	8.42, 8.38	
880	696	—	790	—		
861	691	626	803	728	8.31, 8.01	
855	516	489	604	573	7.54, 7.45	
866	549	531	634	614	7.67, 7.60	
859	445	419	517	488	7.27, 7.16	
876	542	—	616	—		420 ✓
876	303	—	346	—		426 ✓
834	532	—	634	—		1104 ✓
851	641	—	753	—		1176 ✓
842	733	747	870	887	off curve	
874	699	—	800	—		
892	770	—	865	—		
860	764	764	886	886	off curve	
868	771	706	887	814	off curve, 8.35	
860	346	311	403	364	6.77, 6.58	
869	287	244	330	280	6.40, 6.14	
883	315	—	357	—		376 ✓
872	676	—	776	—		425 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Eqp – R.A. 1893 – March 6, 1930.

Strip	Class	Star	Y	Δx	Dyl	Dyl	Cl	Dk	Volts
		47	1858	1242	838	833	979	107	
18.8		48	1878	271	673	593	964	112	
		49	1887	929	829	774	963	113	
		47	1899	407	640	—	972	109	
19.0		48	1901	507	753	—	961	111	
		50	1906	682	606	659	979	113	
		51	1911	742	543	511	988	119	
		52	1901	817	838	788	979	117	
		53	1906	868	391	367	990	117	
		54	1898	1158	828	843	1004	119	
		49	1911	1193	700	—	993	113	
19.2		55	1920	403	900	853	969	117	
		56	1930	423	808	767	959	113	
		57	1918	738	882	856	951	112	
		58	1919	681	843	872	974	111	
		59	1931	1209	687	653	1008	114	
		60	1918	1331	812	743	990	113	
19.4	p	50	1935	223	827	—	967	113	
	p	51	1941	571	583	—	969	111	
		61	1951	613	548	513	979	111	
		62	1938	658	819	780	982	115	
		63	1950	728	611	563	968	112	
		52	1951	1230	871	—	993	113	
		64	1951	1389	717	700	983	111	
19.6		65	1960	526	843	860	972	111	
		53	1960	542	857	—	966	113	
		66	1960	810	675	632	989	119	
		67	1970	917	865	813	987	118	
		68	1970	969	680	633	997	118	
		69	1963	1197	417	387	996	128	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Diff-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
872	731	726	839	834	8.42, 8.41	
852	561	481	659	565	7.74, 7.42	
850	716	661	844	777	8.44, 8.20	
863	531	—	615	—		1166 ✓
850	642	—	754	—		1189 ✓
866	493	546	567	630	7.43, 7.65	
869	424	392	486	450	7.15, 7.00	
862	721	671	837	780	8.41, 8.21	
873	274	250	314	286	6.33, 6.18	
885	709	724	800	815	8.30, 8.35	
880	587	—	667	—		451 ✓
852	783	736	919	865	off curve	
846	695	654	820	770	8.38, 8.18	
839	770	744	916	885	off curve	
863	732	761	850	882	8.45, off curve	
894	573	539	640	604	7.68, 7.54	
877	699	630	795	718	8.27, 7.98	
854	714	—	835	—		
858	472	—	548	—		1171 ✓
868	437	402	504	462	7.22, 7.05	
867	704	665	810	765	8.34, 8.17	
856	499	457	583	526	7.49, 7.30	
880	758	—	860	—		
872	606	589	695	675	7.87, 7.80	
861	732	749	850	869	8.45, off curve	
853	744	—	870	—		
870	556	513	640	590	7.69, 7.50	
869	747	695	860	800	off curve, 8.30	
879	562	515	638	586	7.68, 7.50	
873	284	264	326	302	6.38, 6.26	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

50

RGP-RH 1893 — March 6, 1930

Typ	Class	Star	N	R	Diff.	Diff.	Cl	Dk	Volts	
	p	54	1960	1279	473	—	997	118		
	p	55	1960	1328	867	—	987	120		
	d	70	1960	1370	870	873	997	119		
	d	71	1967	1387	863	810	987	117		
19.8	p	56	1993	219	757	—	963	121		
	d	72	1983	401	873	800	971	121		
	d	73	1980	448	852	803	972	119		
	d	74	1990	480	404	380	979	120		
	p	75	1990	513	607	593	969	121		
		10	1910	730	133	—	960	123		
		1	2240	579	197	—	974	130		
		2	—	—	271	—	983	128		
		3	—	—	301	—	982	122		
		4	—	—	338	—	962	118		
		5	—	—	400	—	977	121		
		6	—	—	533	—	986	127		
		7	—	—	593	—	991	128		
		8	—	—	821	—	999	129	495	
		15	1910	749	150	—	1011	128		
		1	2240	598	212	—	1010	125		
		2	—	—	269	—	1015	125		
		3	—	—	292	—	840	126		
		4	—	—	391	—	1010	122		
		5	—	—	467	—	1020	121		
		6	—	—	575	—	1029	122		
		7	—	—	622	—	1020	120		
		8	—	—	850	—	1020	120		
20.0	f	76	2009	411	800	788	1000	129		
	p	57	2001	493	640	—	1010	120		
	f	77	2000	637	261	258	1020	129		

FM
R H 1893
March 7, 1930

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
879	355	—	405	—		479+
867	747	—	861	—		
878	751	754	855	857	offarms	
870	746	693	855	795	offarms, 8.27	
842	636	—	756	—		1110+
850	752	679	884	799	offarms, 8.30	
853	733	684	860	800	offarms, 8.30	
859	284	260	330	310	6.40, 6.30	
848	486	472	573	555	7.44, 7.40	
837	10	—	12	—		
844	67	—	80	—		
855	143	—	167	—		
860	179	—	208	—		
844	220	—	260	—		
856	279	—	326	—		
859	406	—	474	—		
863	465	—	540	—		
870	692	—	795	—		
883	22	—	25	—		
885	87	—	98	—		
890	144	—	162	—		
714	166	—	232	—		
888	269	—	311	—		
899	346	—	384	—		
907	453	—	497	—		
900	502	—	556	—		
900	730	—	810	—		
871	671	659	770	755	8.15, 8.09	
880	510	—	580	—		1104✓
891	132	129	148	145	4.98, 4.95	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC 9 H 1893 Mar 7, 1930

Strip	class	star	y	x	Diff l	Diff b	d	Δh	Volt
20.0	f	78	2001	878	859	832	1013	133	
	fp	58	2018	1410	708	—	1020	133	
20.2	f	79	2031	431	848	830	1015	140	
	f	80	2021	461	839	780	1013	135	
	f	81	2021	670	763	713	1010	140	
	f	82	2030	774	860	847	1028	140	
	f	83	2030	1201	800	771	1039	140	
20.4	f	84	2040	269	670	650	1002	135	
	f	85	2049	420	776	720	1020	138	
	fp	59	2050	720	730	—	1010	139	
	f	86	2042	850	809	765	1010	140	
	f	87	2048	1018	755	745	1025	139	
	fp	60	2048	1370	830	—	1035	138	
20.6	f	88	2062	371	777	728	1005	135	
	f	89	2062	730	890	810	1020	135	
	f	90	2060	928	888	880	1021	132	
	f	91	2060	939	770	765	1019	133	
	f	92	2070	1072	771	720	1010	130	
20.8	f	93	2098	662	629	590	1002	130	
	fp	61	2089	1310	760	—	1042	133	
21.0	f	94	2108	263	785	760	995	138	
	f	95	2110	602	832	843	1018	131	
	f	96	2119	1318	425	419	1030	135	
21.2	fp	62	2129	289	668	—	975	135	
	fp	63	2120	918	512	—	1018	131	
	fp	64	2138	1250	795	—	1022	130	
	fp	65	2130	1269	379	—	1030	128	
21.4	fp	66	2148	309	561	—	980	128	
	f	97	2140	494	489	438	988	130	
	f	98	2151	638	500	510	990	125	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj..1274C

cl-Dk	Diff-Dk	Diff-Dk	Red Diff	Red Diff	Mag	L. No.
880	726	699	825	794	8.35, 8.24	
887	575	—	647	—		+98
875	708	690	810	790	8.30, 8.22	
878	704	645	800	735	8.27, 8.00	
870	623	573	715	657	7.91, 7.67	
888	720	707	810	795	8.30, 8.25	
899	660	631	735	703	8.00, 7.86	
864	535	515	615	595	7.51, 7.45	
882	638	582	725	660	7.96, 7.70	
871	591	—	678	—		2π
870	669	625	769	720	8.13, 7.81	
886	616	606	695	685	7.80, 7.79	
897	692	—	770	—		509
870	642	593	736	680	7.99, 7.77	
885	755	675	853	763	8.49, 8.11	
889	756	748	850	842	8.48, 8.43	
886	634	632	720	712	7.82, 7.80	
880	641	590	728	670	7.93, 7.72	
872	499	460	573	527	7.37, 7.19	
909	627	—	690	—		523
862	652	627	756	728	8.09, 7.97	
887	701	712	790	801	8.23, 8.28	
895	290	284	324	316	6.23, 6.18	
840	533	—	634	—		1043
887	381	—	430	—		627
892	665	—	745	—		541
902	251	—	278	—		536
852	433	—	507	—		1030
858	359	308	418	358	6.72, 6.40	
865	375	385	434	445	6.80, 6.85	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC R# 1893 Mar 7, 1930

Trip	class	Star	y	x	Defl	Defl	cl	Dh	Volt
21.4	f	99	2152	860	845	830	1012	128	
	p	67	2150	976	760	—	1018	135	
	p	68	2151	1400	750	—	1005	130	
		1S	1910	749	160	—	999	130	
		1	2240	598	238	—	998	130	
		2	—	—	275	—	1002	130	
		3	—	—	353	—	1005	130	
		4	—	—	392	—	1000	130	
		5	—	—	449	—	1010	130	
		6	—	—	577	—	1010	133	
		7	—	—	635	—	1010	138	
		8	—	—	860	—	1010	138	
		2nd R H 1892 - March 7, 1930							
		1S	1910	749	130	—	917	113	510
		1	2240	598	210	—	930	113	
		2	—	—	243	—	939	113	
		3	—	—	307	—	952	117	
		4	—	—	347	—	956	116	
		5	—	—	412	—	963	117	
		6	—	—	543	—	972	118	
		7	—	—	610	—	973	114	
		8	—	—	827	—	977	121	
21.6	f	100	2160	419	852	892	981	122	
	f	69	2170	463	892	—	983	122	
	f	101	2163	781	919	942	983	122	
	f	102	2171	843	420	413	980	123	
	f	103	2170	964	730	737	983	123	
	f	104	2167	1043	897	902	1011	123	
	p	70	2161	1117	663	—	990	123	
	p	71	2160	1129	862	—	989	127	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

c-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag; LNO
884	717	702	812	795	8.32, 8.24 ✓
883	625	—	708	—	601
875	620	—	710	—	534 ✓
869	530	—	34	—	
868	108	—	125	—	
872	145	—	167	—	
875	223	—	254	—	
870	262	—	300	—	
880	319	—	363	—	
877	444	—	507	—	
872	497	—	570	—	
872	722	—	828	—	
804	17	—	21	—	
817	97	—	119	—	
820	150	—	183	—	
835	190	—	238	—	
840	231	—	275	—	
846	295	—	349	—	
854	425	—	498	—	
859	496	—	578	—	
856	706	—	826	—	
859	730	770	851	898	8.38, off curve
860	770	—	898	—	
861	797	820	926	953	off curve
857	297	290	347	339	6.24, 6.20
860	607	614	706	715	7.80, 7.84
878	774	779	881	886	8.48, off curve
867	540	—	623	—	570 ✓
862	735	—	853	—	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

R.A. 18.93 – March 1, 1930

Strip	class	star	y	x	Diff	Diff	cc	Dk	Volt
		105	2171	1138	882	842	1000	124	
		106	2162	1382	910	863	1010	131	
		107	2170	1408	801	792	1013	131	
21.8		72	2187	329	834	—	1000	134	
		108	2194	428	790	764	982	132	
		73	2182	647	871	—	994	133	
		109	2190	649	723	667	993	133	
		110	2195	764	771	780	993	138	
		111	2193	777	813	787	1001	131	
		112	2185	999	848	810	1008	132	
22.0		74a	2200	1000	538	—	1004	136	
		113	2207	1008	845	848	997	138	
		74b	2200	1098	712	—	990	130	
		114	2210	1272	870	919	1003	139	
22.2		115	2235	343	551	518	993	138	
		116	2237	650	403	383	997	139	
		75	2225	812	817	—	987	133	
		117	2225	988	552	517	993	137	
22.4		118	2250	408	898	831	990	137	
		119	2250	593	817	817	1004	136	
		76	2248	793	878	—	1002	133	
		120	2250	872	814	837	986	133	
		77	2242	929	902	—	994	137	
		78	2239	1072	539	—	993	132	
		79	2238	1173	799	—	1007	132	
22.6		80	2267	1027	667	—	1007	137	
		81	2272	1362	913	—	1023	143	
22.8		121	2279	329	901	878	993	150	
		122	2283	373	807	788	989	147	
		123	2290	591	762	707	993	142	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	mag.	L.No
876	758	718	866	821	8.41, 8.25	
879	779	732	887	834	offcurve, 8.32	
882	670	661	761	750	8.06, 8.00	
866	700	—	808	—		
850	658	632	775	743	8.09, 7.97	
861	738	—	856	—		
860	590	534	687	622	7.73, 7.47	
860	638	647	743	752	7.97, 8.01	
870	682	656	783	754	8.11, 8.00	
876	716	678	818	775	8.24, 8.09	
868	402	—	462	—		625 ✓
859	707	710	822	826	8.27, 8.27	
857	579	—	676	—		587 ✓
864	731	780	844	902	8.33, offcurve	
855	413	380	484	445	6.59, 6.70	
858	264	244	308	285	6.06, 5.93	
854	684	—	801	—		765 ✓
856	415	380	486	445	6.88, 6.70	
853	761	694	892	813	offcurve, 8.24	
868	681	681	784	784	8.13, 8.13	
869	745	—	857	—		778 +
853	681	704	798	825	8.17, 8.27	
857	765	—	893	—		
851	401	—	472	—		606 ✓
875	667	—	761	—		588 +
870	530	—	609	—		404 +
880	770	—	875	—		
843	751	728	890	863	offcurve, 8.40	
842	660	641	785	762	8.13, 8.04	
851	620	565	728	663	7.87, 7.63	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Zgp-C#1893 - March 7, 1930

Strip	class	star	y	x	Dyfe	Dyfe	ce	Dh	Volt
	f	124	2288	732	926	902	1001	140	
	f	125	2280	908	732	672	996	141	
	p	82	2279	989	806	—	1004	139	
	f	126	2287	1053	801	770	1008	139	
23.0	f	127	2312	399	799	787	991	140	
	p	83	2308	538	733	—	999	138	
23.2	f	128	2315	380	790	787	979	134	
	f	129	2337	773	431	409	998	133	
	p	84	2331	919	734	—	997	133	
23.4	p	85	2357	407	840	—	952	136	
	f	130	2341	409	624	658	982	137	
	p	86	2344	444	677	—	978	138	
	f	131	2350	594	762	718	980	141	
	f	132	2352	818	761	708	989	137	
	p	87	2340	843	766	—	991	138	
	f	133	2347	858	910	890	982	137	
23.6	p	88	2368	492	879	—	990	137	
	p	89	2367	478	827	—	990	137	
	f	134	2377	661	702	669	988	137	
	f	135	2360	808	852	809	983	138	
	f	136	2370	913	548	532	982	133	
23.8	p	90	2390	519	881	—	972	136	
	f	137	2397	753	813	767	982	137	
	p	91	2382	822	807	—	977	137	
	f	138	2380	847	810	776	993	137	
	p	92	2383	1048	734	—	991	142	
	f	139	2392	1127	805	772	992	143	
	f	140	2380	1192	521	618	988	142	
24.0	f	141	2404	638	910	891	977	141	
	f	142	2405	667	755	762	978	142	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Diff-Dk	Diff Dk	Red Diff	Red Diff	Mag	L. No.
861	786	762	925	885	offcurve	
855	591	531	692	622	7.77, 7.46	
865	667	—	771	—		664
869	662	631	762	727	8.04, 7.88	
851	659	597	773	700	8.09, 7.80	
861	595	—	692	—		407
845	656	653	774	772	8.09, 8.08	
865	298	276	345	318	6.22, 6.10	
864	601	—	696	—		713
816	704	—	863	—		
845	487	521	576	617	7.27, 7.42	
840	539	—	642	—		926
839	621	577	740	686	7.95, 7.72	
852	624	621	733	729	7.93, 7.90	
853	628	—	738	—		748
845	773	753	916	892	offcurve	
833	742	—	890	—		
853	690	—	808	—		
851	565	532	664	625	7.63, 7.43	
845	714	665	856	788	8.39, 8.14	
849	415	399	488	470	6.89, 6.82	
836	745	—	892	—		
845	666	630	788	745	8.14, 7.97	
848	670	—	798	—		
856	673	639	788	747	8.14, 7.98	
849	592	—	696	—		679
849	662	629	778	740	8.10, 7.94	
846	379	476	447	563	6.71, 7.24	
836	769	750	920	897	offcurve	
836	613	610	734	742	7.92, 7.98	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

60

Zgp - CH 1893 — March 7, 1931

Strip	Class	Star	y	x	Dyfl	Dyfl	ce	dk	Plate
	p	93	2405	793	598	—	978	138	
		143	2418	1141	828	753	982	142	
24.2	p	94	2416	541	780	—	972	140	
		144	2421	713	555	531	979	142	
		145	2426	742	795	758	983	137	
	p	95	2429	819	834	—	982	137	
		146	2430	962	962	904	997	140	
24.4		147	2430	984	888	872	976	138	
		148	2423	1023	837	813	979	140	
	p	96	2418	1147	771	—	990	143	
24.4	p	97	2450	756	734	—	971	140	
		149	2463	878	555	553	991	142	
		150	2440	930	839	777	988	134	
	p	98	2450	1140	928	—	983	140	
24.6	p	99	2470	717	831	—	962	142	
24.8		151	2480	949	403	363	973	139	
		152	2481	1054	828	795	976	141	
25.2	p	100	2528	840	842	—	988	137	
		153	2530	911	850	863	977	139	
25.4		154	2533	697	870	826	970	138	
	p	101	2540	778	792	—	973	147	
		155	2548	909	679	689	983	147	
		14	1910	749	164	—	979	148	
		1	2240	598	243	—	985	146	
		2	—	—	305	—	993	139	
		3	—	—	351	—	996	146	
		4	—	—	390	—	996	149	
		5	—	—	448	—	993	143	
		6	—	—	570	—	979	142	
		7	—	—	611	—	993	142	
		8	—	—	852	—	986	139	

Plate finished

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

e-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO.
840	460	—	598	—		805 ✓
840	686	611	816	727	8.24, 7.88	
832	640	—	770	—		892 +
837	413	399	499	477	6.95, 6.86	
846	658	621	779	734	8.10, 7.92	
845	697	—	825	—		764 +
857	822	764	860	892	8.40, off curve	
838	750	734	894	875	off curve	
839	694	673	831	802	8.29, 8.20	
847	628	—	742	—		647 +
831	594	—	715	—		790 ✓
849	413	411	487	484	6.90, 6.89	
854	705	643	826	752	8.27, 8.01	
843	188	—	223	—		660 +
820	689	—	840	—		857 ? +
834	264	224	313	268	6.10, 5.80	
835	687	654	823	783	8.27, 8.12	
851	705	—	828	—		758 +
838	711	724	847	862	8.22, 8.40	
832	732	688	880	828	~~8.48 off~~, 8.27	
826	645	—	781	—		
836	532	536	636	641	7.49, 7.52	
831	16	—	19	—		
839	97	—	115	—		
860	172	—	200	—		
850	205	—	241	—		
853	247	—	290	—		
850	305	—	358	—		
837	428	—	512	—		
851	469	—	552	—		
847	713	—	843	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

MRD RH 1894 Mar. 10, 1930

Trip	Class	Star	Y	X	Diff	Diff	cc	dk	Plate
		13	1968	708	080	—	928	173	5.05
		1	2240	569	100	—	980	080	
		2	—	—	137	—	970	088	
		3	—	—	173	—	975	090	
		4	—	—	196	—	1016	090	
		5	—	—	270	—	970	088	
		6	—	—	400	—	1000	089	
		7	—	—	452	—	1008	090	
		8	—	—	757	—	1000	090	
13.8	p	1	1379	788	583	—	950	101	
	f	1	1390	832	760	810	938	103	
	p	2	1380	880	258	—	948	092	
14.2	p	3	1420	595	695	—	944	098	
	p	4	1420	866	153	—	932	098	
	f	2	1430	935	330	350	953	093	
	f	3	1437	1025	624	626	954	093	
14.4	f	4	1456	853	100	104	940	093	
14.6	f	5	1465	660	685	700	962	095	
	f	6	1469	669	625	630	960	105	
14.8	p	5	1492	1020	430	—	960	107	
15.0	p	6	1505	729	280	—	950	102	
	f	7	1514	1108	275	283	978	100	
		13	1908	708	102	—	958	100	
		1	2240	569	122	—	1000	100	
		2	—	—	144	—	990	100	
		3	—	—	188	—	980	100	
		4	—	—	210	—	1028	101	
		5	—	—	280	—	969	100	
		6	—	—	410	—	998	100	
		7	—	—	458	—	1000	101	
		8	—	—	754	—	980	104	5.01

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L No
855	7	—	8	—		
900	20	—	22	—		
882	49	—	50	—		
885	83	—	94	—		
926	106	—	114	—		
882	182	—	206	—		
911	311	—	342	—		
918	362	—	394	—		
910	667	—	734	—		
849	482	—	566	—		206+
835	657	707	787	846	offscale	
856	166	—	194	—		242+
846	597	—	706	—		135+
834	55	—	66	—		239+
860	237	257	275	299	6.80, 6.90	
861	531	533	616	619	7.97, 7.98	
847	7	11	8	13	3.42, 3.90	
867	590	605	680	697	8.15, 8.20	
855	520	525	609	613	7.94, 7.96	
853	323	—	378	—		297+
848	178	—	209	—		183+
878	175	183	199	208	6.44, 6.48	
858	2	—	2	—		
900	22	—	24	—		
890	44	—	49	—		
880	88	—	100	—		
927	109	—	118	—		
869	180	—	207	—		
898	310	—	345	—		
899	357	—	399	—		
876	650	—	742	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

FMC RH 1894 Mar 10, 1930

Strip	Class	Star	y	x	Defl	Defl	cl	Dk
		15	1908	708	130	—	920	124
		1	2240	569	150	—	965	130
		2	—	—	180	—	950	135
		3	—	—	212	—	970	138
		4	—	—	260	—	1000	138
		5	—	—	320	—	989	140
		6	—	—	482	—	1010	152
		7	—	—	512	—	1023	160
		8	—	—	815	—	1025	170
15.4	f	8	1540	400	570	588	1008	170
	f	9	1558	803	770	770	982	151
	fp	7	1540	906	630	—	988	148
15.6	fp	8	1572	430	429	—	970	140
	fp	9	1572	539	760	—	982	140
	f	10	1571	768	788	789	970	130
15.8	f	11	1591	369	728	721	965	127
	fp	10	1592	650	710	—	975	125
	fp	11	1580	840	424	—	950	120
	f	12	1580	880	809	790	965	121
16.0	fp	12	1612	390	608	—	977	130
	f	13	1600	608	668	—	960	130
	f	13	1600	622	800	830	990	135
	f	14	1610	1072	702	690	990	134
16.2	f	15	1632	642	395	400	978	129
	f	16	1622	855	530	549	985	149
	fp	14	1621	993	609	—	985	135
16.4	f	17	1650	690	290	298	980	123
	fp	15	1650	911	355	—	982	128
	fp	16	1640	940	940	—	995	138
16.6	fp	17	1663	980	777	—	950	131

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
796	6	—	7	—		
835	20	—	24	—		
815	45	—	55	—		
832	74	—	89	—		
862	122	—	142	—		
849	180	—	212	—		
858	330	—	384	—		
863	352	—	408	—		
855	645	—	755	—		
838	400	418	476	498	7.40, 7.46	
831	619	619	745	745	8.29, 8.29	
840	482	—	574	—		264+
830	289	—	348	—		51+
842	620	—	736	—		90+
840	658	659	785	785	off curve	
838	601	594	716	706	8.19, 8.15	
850	585	—	690	—		
832	304	—	366	—		240✓
844	688	669	815	793	off curve	
847	478	—	565	—		23+
830	538	—	650	—		118✓
855	665	695	777	811	off curve	
856	568	556	664	650	8.00, 7.94	
849	266	271	314	319	6.87, 6.88	
836	381	400	455	477	7.33, 7.41	
850	474	—	556	—		
857	167	175	195	204	6.31, 6.37	
854	227	—	266	—		279✓
857	202	—	236	—		294✓
819	646	—	790	—		8+

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RH 1894 Mar. 10, 1930

trip	class	star	y	x	Defl	Defl	cc	Dk	Volt
16.6	f	18	1662	390	781	803	1000	125	
	p	18	1670	780	243	—	978	120	
	p	19	1672	888	650	—	981	118	
	f	19	1672	1210	615	640	988	120	
16.8	f	20	1690	408	621	631	985	118	
	p	20	1690	525	190	—	964	118	
	f	21	1680	800	700	710	985	118	
	f	22	1680	1058	511	525	970	111	
	p	21	1680	1115	776	—	980	115	
17.0	f	23	1700	468	809	800	1000	118	
	p	22	1710	620	805	—	989	115	
	f	24	1709	1090	620	640	990	115	
	f	25	1710	1153	337	325	998	112	
17.2	f	26	1730	690	618	650	965	120	
	f	27	1730	778	718	680	970	112	
17.4	p	23	1740	250	729	—	945	109	
	f	28	1750	460	590	560	980	112	
	p	24	1752	580	479	—	942	115	
	f	29	1741	589	750	780	970	110	
	f	30	1748	672	477	490	968	108	
	f	31	1750	970	525	498	982	120	
	f	32	1740	1272	710	740	1010	112	
		18	1908	708	120	—	978	110	
		1	2040	569	135	—	989	112	
		2	—	—	165	—	960	110	
		3	—	—	195	—	973	110	
		4	—	—	250	—	1000	110	
		5	—	—	305	—	960	110	
		6	—	—	430	—	989	110	
		7	—	—	500	—	990	110	
		8	—	—	760	—	980	110	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
875	656	678	750	775	8.31, off curve	
858	123	—	143	—		205 ✓
863	532	—	616	—		274 ✓
868	495	520	570	598	7.69, 7.77	
867	503	513	580	591	7.72, 7.75	
846	72	—	85	—		56 ✓
867	582	592	670	682	8.03, 8.05	
859	400	414	465	480	7.36, 7.41	
865	661	—	764	—		
882	691	682	784	774	off curve	
874	690	—	790			
875	505	525	576	600	7.71, 7.78	
886	225	213	254	240	6.61, 6.53	
845	498	530	590	626	7.75, 7.87	
858	606	568	706	663	8.15, 8.00	
836	620	—	740	—		1235 +
868	478	448	552	516	7.62, 7.51	
827	364	—	440	—		62 ✓
861	640	670	745	778	8.28, off curve	
860	369	382	428	444	7.23, 7.27	
862	405	378	470	438	7.38, 7.26	
898	598	628	665	700	8.00, 8.12	
868	10	—	11	—		
877	23	—	26	—		
850	55	—	65	—		
863	85	—	99	—		
890	140	—	157	—		
850	195	—	230	—		
879	320	—	364	—		
880	390	—	443	—		
870	650	—	748	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

2 Gp – R H 1894 — March 10, 1920

Strip	Class	Star	y	x	Dyfl	Dyfl	Cl	Dk	Falls
		10	1908	708	087	—	888	084	005
		1	2240	569	108	—	914	088	
		2	—	—	137	—	918	091	
		3	—	—	173	—	917	091	
		4	—	—	202	—	941	090	
		5	—	—	261	—	909	091	
		6	—	—	382	—	942	091	
		7	—	—	423	—	952	091	
		8	—	—	749	—	943	093	
17.6	f	33	1769	391	728	732	923	096	
	f	34	1772	929	649	653	933	097	
	f	35	1772	1043	696	699	958	097	
	p	25	1770	1058	139	—	954	096	
17.8	p	26	1783	240	220	—	921	093	
	p	27	1792	407	706	—	941	093	
	p	28	1794	422	477	—	957	098	
	p	29	1790	486	323	—	932	093	
	f	36	1780	777	787	784	956	101	
	f	37	1780	791	693	681	933	098	
	f	38	1787	811	658	671	937	098	
	p	30	1780	959	557	—	949	098	
	f	39	1790	1193	424	432	972	098	
	p	31	1793	1334	698	—	962	101	
18.0	p	32	1810	273	698	—	933	096	
	p	33	1814	498	338	—	953	101	
	p	34	1817	451	574	—	967	107	
	p	35	1823	512	669	—	953	107	
	f	40	1800	531	681	617	961	106	
	f	41	1801	619	806	840	952	109	
	f	42	1802	1039	799	787	966	108	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

C-Dk	Diff Dk	Diff Dk	Red Diff	Red Diff	Mag	L. No.
804	3	—	3	—		
826	20	—	24	—		
822	46	—	56	—		
826	82	—	99	—		
851	112	—	114	—		
818	170	—	208	—		
851	291	—	342	—		
861	332	—	385	—		
850	656	—	774	—		
827	632	636	764	768	8.29, 8.30	
836	552	556	660	665	8.01, 8.02	
861	599	602	695	698	8.10, 8.11	
858	643	—	747	—		
828	127	—	153	—		1214+
848	663	—	780	—		1244✓
859	379	—	442	—		1251✓
839	230	—	274	—		1279✓
845	686	683	812	807	off curve	
835	535	583	640	694	7.95, 8.10	
839	560	573	666	681	8.02, 8.07	
851	459	—	539	—		338✓
874	326	334	374	382	7.17, 7.20	
861	577	—	670	—		
837	602	—	718	—		1201+
852	237	—	278	—		
860	467	—	543	—		1246✓
846	562	—	663	—		
855	475	511	555	597	7.73, 7.84	
843	699	731	829	876	off curve	
860	625	679	725	789	8.20, 8.31	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

70

QP-CH 1894- March 10, 1930.

Trip	Class	Star	y	b	Dyll	Dyl	Cl	Dk	Volts
		43	1797	1055	450	460	962	106	
		36	1800	1208	513	—	962	109	
		37	1802	1243	272	—	982	111	
18.2		38	1824	327	431	—	954	108	
		44	1830	513	531	548	933	110	
		45	1820	896	493	476	953	107	
		46	1830	947	787	801	956	108	
		47	1837	958	392	430	964	107	
		39	1830	1027	739	—	963	109	
		40	1830	1028	844	—	972	108	
		48	1830	1368	632	678	968	109	
18.4		41	1848	967	270	—	969	108	
18.6		42	1870	231	553	—	904	110	
		43	1869	283	751	—	951	111	
		49	1873	521	610	622	957	111	
		50	1868	852	901	910	959	111	
		51	1872	866	238	244	959	111	
		44	1860	1103	673	—	972	109	
		52	1859	1222	679	728	964	108	
		1∞	1908	708	111	—	923	107	
		1	2240	569	132	—	960	109	
		2	—	—	153	—	949	111	
		3	—	—	188	—	940	110	
		4	—	—	227	—	981	111	
		5	—	—	290	—	932	110	
		6	—	—	414	—	964	113	
		7	—	—	453	—	959	112	
		8	—	—	739	—	944	108	495

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
856	344	354	402	414	7.25, 7.31	
853	404	—	474	—		420+
871	161	—	185	—		426+
846	323	—	381	—		1208+
823	421	438	511	534	7.61, 7.68	
846	386	369	456	436	7.44, 7.38	
848	679	693	800	815	7.85, ~~ff~~ curve	
857	285	323	332	376	7.00, 7.16	
854	624	—	730	—		
864	736	—	852	—		
859	523	569	607	663	7.87, 8.02	
861	162	—	188	—		376✓
794	443	—	557	—		1104+
840	640	—	760	—		1176+
846	499	511	589	604	7.81, 7.86	
848	190	199	224	234	6.56, 6.61	
848	127	133	150	156	6.16, 6.18	
863	564	—	654	—		425✓
856	571	620	666	725	8.03, 8.20	
816	4	—	5	—		
851	23	—	27	—		
838	42	—	50	—		
830	78	—	94	—		
870	116	—	133	—		
822	180	—	219	—		
851	301	—	353	—		
847	341	—	403	—		
836	631	—	755	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

m.K.D. RH 1894 Mar. 11, 1930.

Strip	Class	Star	Y	D	Diff	Diff	Cc	Dk	Wts
		18	1908	713	103	—	925	100	4.99
		1	2240	572	119	—	940	099	
		2	—	—	140	—	925	097	
battery low!		3	—	—	171	—	923	097	
		4	—	—	200	—	952	098	
		5	—	—	260	—	920	098	
		6	—	—	382	—	950	099	
		7	—	—	440	—	948	099	
		8	—	—	718	—	940	100	
18.8	f	53	1876	255	527	527	950	102	
	f	54	1882	342	710	704	940	105	
	fp	45	1896	1178	573	—	982	120	
	fp	46	1890	1286	620	—	975	120	
19.0	f	47	1908	391	570	—	938	114	
	fp	48	1905	491	708	—	930	111	
	f	55	1905	668	440	450	940	113	
	f	56	1911	728	405	410	940	116	
	f	57	1900	800	680	690	950	115	
	f	58	1905	852	250	256	940	110	
	f	59	1900	1143	680	700	960	115	
	fp	49	1900	1178	564	—	950	113	
		18	1908	713	118	—	925	110	
		1	2240	572	130	—	940	115	
		2	—	—	150	—	938	115	
		3	—	—	190	—	937	116	
		4	—	—	220	—	984	130	
		5	—	—	304	—	935	125	
		6	—	—	428	—	960	130	
		7	—	—	444	—	950	120	
		8	—	—	725	—	920	113	4.95

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Diff-Dk	Diff-Dk	Red Diff	Red Diff	Mag	L. No
825	3	—	3	—		
841	20	—	24	—		
828	43	—	52	—		
826	74	—	90	—		
854	102	—	119	—		
822	162	—	197	—		
851	283	—	332	—		
849	341	—	402	—		
840	618	—	735	—		
848	425	425	500	500	7.59, 7.59	
835	605	599	725	716	8.18, 8.15	
862	453	—	525	—		451 ✓
855	500	—	585	—		457 ✓
824	456	—	555	—		1166 ✓
819	597	—	730	—		1189 ✓
827	327	337	395	407	7.32, 7.35	
824	289	294	351	357	7.18, 7.20	
835	565	575	675	688	8.03, 8.07	
830	140	146	169	176	6.25, 6.30	
845	565	585	670	690	8.02, 8.07	
837	451	—	537	—		451 ✓
815	8	—	9	—		
825	15	—	18	—		
823	35	—	43	—		
821	74	—	90	—		
854	90	—	105	—		
810	179	—	222	—		
830	298	—	356	—		
830	324	—	390	—		
807	612	—	757	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

7mc R++ 1894 Mar 11, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk Volts
		1s	1908	713	094	—	850	090
		1	2240	572	110	—	871	090
		2	—	—	138	—	869	090
		3	—	—	170	—	870	090
		4	—	—	230	—	890	092
		5	—	—	254	—	872	092
		6	—	—	370	—	890	095
		7	—	—	419	—	8909	099
		8	—	—	710	—	880	099
19.2	f	60	1930	419	621	673	905	100
	f	61	1938	641	662	710	904	100
	f	62	1920	667	700	695	893	100
	f	63	1932	1292	423	460	929	100
	f	64	1920	1306	520	550	925	100
19.4	fp	50	1948	558	480	—	910	100
	f	65	1950	599	420	380	900	100
	f	66	1950	710	440	430	919	100
	fp	51	1940	1162	260	—	938	100
	f	67	1953	1372	515	500	938	100
19.6	f	68	1960	795	490	500	913	100
	f	69	1970	900	689	701	920	101
	f	70	1970	952	580	529	927	101
	f	71	1968	1180	230	220	939	100
	f	72	1960	1355	700	713	930	101
	f	73	1969	1370	671	670	930	102
19.8	f	74	1990	465	370	330	912	102
	f	75	1990	500	488	500	910	102
	fp	52	1991	1380	429	—	925	110
20.0	fp	53	2010	703	668	—	910	112
	f	76	2010	380	670	650	920	110

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

α-Dk.	Defl-Dk.	Defl-Dk.	Red Defl	Red Defl	Mag	L. No
760	4	—	5	—		
781	20	—	26	—		
779	48	—	62	—		
780	80	—	103	—		
798	138	—	173	—		
780	162	—	208	—		
795	275	—	346	—		
810	320		395	—		
781	611	—	791	—		
805	521	573	647	711	7.97, 8.11	
804	562	610	698	758	8.09, 8.25	
793	600	595	757	751	8.25, 8.23	
829	323	360	389	433	7.29, 7.43	
825	420	450	510	546	7.62, 7.72	
810	380	—	470	—		1171 ✓
800	320	280	401	350	7.35, 7.15	
819	340	330	415	403	7.38, 7.35	
838	160	—	191	—		
838	415	400	495	478	7.58, 7.53	
813	390	400	479	492	7.53, 7.59	
829	588	600	710	724	8.11, 8.17	
826	419	428	507	520	7.62, 7.65	
839	130	120	155	143	6.01, 5.93	
829	599	612	722	737	8.17, 8.21	
828	569	568	687	686	8.06, 8.06	
810	268	228	331	381	7.07, 7.27	
808	386	398	477	492	7.53, 7.58	
815	319		391			418 +
802	556	—	694	—		1110 +
810	560	540	692	668	8.05, 8.01	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC R H 1894 Mar. 11, 1930

Strips	Class	Star	y	p	Diff	Diff	a	Dk	Volt
20.0	f	54	2010	460	481	—	933	110	
	f	77	2002	841	~~752~~ 680	680	938	110	
20.2	f	78	2020	398	690	724	920	110	
	f	79	2021	429	640	693	928	110	
	f	80	2021	624	572	574	910	108	
	f	81	2030	740	683	708	920	110	
	f	82	2030	1168	501	521	928	109	
	p	55	2021	1340	628	—	929	109	
20.4	f	83	2040	233	478	488	898	108	
	f	84	2049	385	595	619	911	110	
	f	85	2040	600	705	725	930	108	
	p	56	2050	690	585	—	930	108	
	f	86	2042	815	605	620	920	108	
	f	87	2050	981	608	632	932	105	
	p	57	2051	1103	688	—	925	108	
20.6	f	88	2061	339	571	600	920	108	
	f	89	2062	698	660	680	901	110	
	f	90	2061	891	710	728	930	108	
	f	91	2060	903	650	580	928	110	
	f	92	2070	1039	578	500	939	110	
	p	58	2069	1280	570	—	940	110	
		1s	1908	713	120	—	919	111	
		1	2240	572	148	—	940	115	
		2	—	—	160	—	898	110	
		3	—	—	205	—	910	110	
		4	—	—	220	—	930	112	
		5	—	—	327	—	895	113	
		6	—	—	391	—	925	111	
		7	—	—	490	—	933	110	
		8	—	—	712	—	890	111	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12745

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	mag	L. No.
823	371	—	459	—		1109 ✓
828	570	570	687	687	8.07, 8.07	
810	580	614	717	757	8.15, 8.25	
818	530	583	648	711	8.07, 8.12	
802	464	466	580	581	7.81, 7.81	
810	573	598	707	740	8.12, 8.22	
819	392	412	477	502	7.53, 7.61	
820	579	—	633	—		509 x
790	370	380	468	482	7.50, 7.54	
801	485	509	606	635	7.86, 7.94	
822	597	617	730	753	8.19, 8.24	
822	477	—	581	—		2r x
812	497	572	613	630	7.89, 7.93	
827	503	527	609	638	7.87, 7.94	
817	580	—	709	—		
812	463	592	571	728	7.79, 8.18	
791	550	570	694	720	8.08, 8.16	
822	602	620	731	753	8.20, 8.24	
818	540	470	659	573	8.00, 7.79	
829	468	440	565	532	7.77, 7.69	
830	460	—	554	—		523 x
808	9	—	11	—		
825	33	—	40	—		
788	50	—	64	—		
800	85	—	106	—		
818	108	—	132	—		
782	214	—	273	—		
814	280	—	345	—		
823	380	—	462	—		
779	591	—	759	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Dyp – R H 1894 — March 11, 1930

Strip	class	star	y	x	Deff	Deff	de	Dh	
		14	1908	713	124	—	869	127	485
		1	2240	572	150	—	908	139	
		2	—	—	182	—	912	151	
		3	—	—	221	—	914	154	
		4	—	—	242	—	940	157	
		5	—	—	308	—	916	160	
		6	—	—	401	—	946	161	
		7	—	—	487	—	955	164	
		8	—	—	751	—	942	162	
20.8	f	93	2097	630	461	464	947	166	
	f	94	2080	807	837	863	962	168	
	f	95	2090	823	803	851	964	163	
	f	96	2091	869	743	757	961	170	
	f	97	2080	900	750	754	983	177	
	f	98	2090	929	770	790	990	178	
	p	59	2078	1078	741	—	983	173	
	f	99	2096	1108	753	860	970	179	
21.0	f	100	2104	230	710	841	942	184	
	f	101	2111	569	789	780	997	189	
	f	102	2109	768	743	784	974	181	
	f	103	2107	773	838	837	981	186	
	f	104	2100	797	841	854	989	183	
	p	60	2108	796	957	—	983	188	
	p	61	2110	890	332	—	963	182	
	f	105	2109	974	807	844	997	191	
	p	62	2099	1151	827	—	1014	186	
	p	63	2110	1241	243	—	1000	182	
21.2	f	106	2120	270	823	829	986	181	
	p	64	2130	311	882	—	979	183	
	p	65	2129	312	610	—	980	187	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn. L. Ns.
742	−3				
769	11		14		
761	31		41		
760	67		88		
783	85		109		
756	148		196		
786	270		344		
791	323		407		
780	589		765		
781	295	298	375	382	7.24, 7.27
794	669	695	843	876	off curve
801	640	688	798	859	off curve
797	573	587	720	740	8.22, 8.25
806	573	577	712	718	8.20, 8.21
812	592	612	730	754	8.24, 8.28
810	568		703		
791	574	681	726	861	8.23, off curve
758	616	657	813	868	off curve
814	606	597	745	733	8.26, 8.25
793	562	603	708	761	8.20, 8.29
795	652	651	818	818	off curve
806	658	671	816	833	off curve
795	769		965		
781	150		193		627 ✓
806	616	653	763	810	8.29, off curve
828	641		782		
818	61		76		536 +
805	642	748	796	930	off curve
796	699		877		1044 +
793	423		531		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

ZgP - RH 1894 - March 16 1930

Trip	Close Star		y	b	Dyl	Dyl	cc	Dk Plts
		107	2117	359	877	938	1012	183
		66	2130	675	836	—	997	182
		108	2128	768	787	855	970	177
		67	2127	1128	769	—	1000	186
		68	2118	1227	680	—	1003	190
		109	2123	1276	743	774	1004	189
		110	2120	1282	263	274	1030	193
		69	2127	1303	916	—	1011	192
		70	2130	1376	599	—	996	194
21.4		71	2140	261	580	—	984	198
		111	2140	459	378	394	1010	197
		112	2151	602	411	422	1010	200
		113	2153	828	736	780	998	199
		72	2140	950	643	—	1003	198
		73	2151	1090	556	—	1004	200
		74	2146	1102	788	—	1041	203
		114	2142	1216	850	911	1039	201
21.6		75	2160	281	434	—	993	200
		115	2163	747	880	901	1006	201
		116	2171	808	310	318	1020	204
		117	2170	930	589	622	1010	194
		118	2168	1009	827	849	1010	187
		76	2177	1011	864	—	993	181
		119	2167	1347	752	763	1013	182
		120	2172	1373	590	576	999	178
21.8		121	2192	392	688	711	983	179
		122	2190	613	567	627	998	173
		123	2194	730	627	649	973	173
		124	2193	742	678	757	971	173
		125	2187	964	656	673	983	171

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12746

α	Dk.	Defl. Dk.	Defl. Dk.	Reduced	Reduced	Magn.	L. Ks.
829	694	755		837	911	off curve	
815	654	—		803	—		2035 +
793	610	678		769	856	off curve	
814	583	—		715	—		
813	490	—		602	—		541 ✓
815	554	552		680	679	8.15, 8.15	
837	70	81		83	97	5.63, 5.80	
819	724	—		884	—		
802	405	—		505	—		534 +
786	382	—		487	—		1043 +
813	181	197		222	242	6.56, 6.66	
810	211	222		260	274	6.73, 6.81	
794	637	581		802	732	off curve, 825	
805	445	—		553	—		601 ✓
804	356	—		443	—		570 ✓
838	585	—		697	—		
831	649	710		780	853	off curve	
793	234	—		282	—		1030 +
805	679	700		844	870	off curve	
816	106	114		130	139	6.06, 6.11	
816	395	428		483	525	7.62, 7.79	
823	640	662		776	804	off curve	
812	683	—		840	—		
831	570	581		686	698	8.17, 8.19	
821	412	398		501	485	7.70, 7.64	
804	509	532		633	660	8.07, 8.12	
820	394	454		482	555	7.63, 7.86	
800	454	476		567	595	7.96, 7.97	
798	565	584		632	731	8.07, 8.24	
812	485	502		598	617	8.00, 8.03	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

2 gp - CH 1894 - March 11, 1930

Trip	Class	Star	y	x	Dyc	Dyf	Cl	Dk	Obs
	p	77	2190	977	350	—	989	174	
	p	78	2183	1073	521	—	984	177	
22.0	p	79	2200	309	731	—	993	176	
	p	80	2202	529	710	—	1000	182	
	f	126	2215	966	709	814	984	188	
	p	81	2223	1070	823	—	1016	191	
	f	127	2201	1087	841	902	1003	189	
	f	128	2211	1237	720	783	1013	190	
	f	129	2210	1282	807	829	1003	191	
22.2	f	130	2232	908	442	397	982	184	
	p	82	2228	547	870	—	988	191	
	f	131	2237	613	278	291	976	178	
	p	83	2220	787	767	—	967	182	
	f	132	2230	843	851	918	983	183	
	f	133	2228	952	339	348	978	182	
	p	84	2226	1048	350	—	991	183	
	p	85	2220	1149	613	—	1000	171	
22.4	f	134	2250	372	771	804	989	184	
	f	135	2250	558	698	747	986	187	
	p	86	2240	624	766	—	983	186	
	p	87	2244	770	792	—	983	182	
	f	136	2250	838	691	714	987	177	
	p	88	2250	1340	817	—	973	174	
		10	1908	713	181	—	953	176	
		1	2240	572	197	—	970	178	
		2	—	—	215	—	959	173	
		3	—	—	251	—	962	173	
		4	—	—	261	—	973	167	
		5	—	—	319	—	930	162	
		6	—	—	436	—	951	157	
		7	—	—	468	—	958	153	
		8	—	—	744	—	942	153	480

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

α.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. Ks.
815	176	—	216	—		625 ✓
810	344	—	425	—		587 ✓
777	555	—	716	—		
818	518	—	634	—		948 ✓
796	571	626	718	787	8.22, off curve	
825	672	—	815	—		
814	652	713	802	877	off curve	
823	530	593	644	720	8.10, 8.22	
812	616	638	758	777	8.29, off curve	
798	258	213	325	266	7.03, 6.76	
797	679	—	854	—		
798	100	113	125	139	6.03, 6.11	
785	585	—	946	—		765 ✓
800	668	735	835	917	off curve	
796	157	166	197	208	6.40, 6.49	
808	167	—	207	—		606 ✓
829	522	—	630	—		588 +
805	587	620	729	770	8.25 off curve	
799	511	560	639	702	8.08, 8.20	
797	580	—	728	—		893 ✓
801	610		762			778 +
810	514	537	634	662	8.07, 8.18	
799	643		805			
777	05	—	06	—		
792	19	—	24	—		
786	42	—	54	—		
789	78	—	99	—		
806	94	—	117	—		
768	157	—	204	—		
794	279	—	351	—		
805	315	—	391	—		
789	591	—	748	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RA 1894 March 12, 1930

Trip	Class	Star	y	x	Diff	Diff	cl	Dk Pts
		18	1908	730	120	—	905	112
		1	2340	589	133	—	922	115
		2	—	—	153	—	900	112
		3	—	—	199	—	900	110
		4	—	—	210	—	920	110
		5	—	—	261	—	880	109
		6	—	—	382	—	901	109
		7	—	—	462	—	905	111
		8	—	—	690	—	880	118
22.6	p	89	2270	980	682	—	935	117
22.8	f	137	2281	352	563	593	900	115
	f	138	2290	550	500 470	573	918	112
	f	139	2280	890	510	450	908	115
	f	140	2290	1332	482	490	909	115
23.0	f	141	2312	360	589	610	892	118
	f	142	2310	380	578	588	910	112
	p	90	2304	531	583	—	909	115
	f	143	2310	931	704	720	900	115
23.2	f	144	2335	752	808	192	901	110
	p	91	2331	840	623	—	890	110
	p	92	2325	911	478	—	895	118
23.4	f	145	2340	389	415	408	910	120
	p	93	2352	440	525	—	910	120
	f	146	2350	573	540	544	900	120
	f	147	2351	797	575	530	905	120
	p	94	2347	970	645	—	918	120
23.6	f	148	2378	640	460	490	890	120
	f	149	2360	789	630	663	868	127
	f	150	2370	893	255	290	908	122
	p	95	2371	1014	511	—	910	123

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk.	Dep. -Dk	Dep. -Dk.	Reduced	Reduced	Magn.	L. No.
783	08	—	10	—		
807	18	—	22	—		
888	41	—	46	—		
790	89	—	113	—		
810	100	—	123	—		
771	152	—	197	—		
792	283	—	255	—		
794	351	—	442	—		
762	572	—	750	—		
818	565	—	690	—		664
785	448	478	572	610	7.82, 7.93	
806	388	461	482	572	7.55, 7.82	
793	355	335	448	423	7.44, 7.40	
794	367	375	464	473	7.48, 7.51	
774	471	492	608	635	7.92, 8.01	
798	466	476	583	595	7.84, 7.88	
794	468	—	591	—		907
785	589	605	750	720	8.30, 8.24	
791	98	82	124	104	6.00, 5.81	
780	513	—	658	—		748
777	360	—	463	—		713
790	295	288	375	366	7.25, 7.23	
790	405	—	513	—		
780	420	424	538	545	7.70, 7.73	
785	455	410	579	522	7.84, 7.68	
798	525	—	657	—		688
770	340	370	442	482	7.43, 7.59	
746	508	541	680	724	8.14, 8.27	
786	133	168	169	214	6.34, 6.64	
787	388	—	493	—		679

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

7mc RH 1894 March 12, 1930

trip	class	star	y	x	Diff	Diff	dk	dh	Volh
23.8	p	96	2380	819	660	—	900	125	
	f	151	2381	827	565	580	912	120	
	f	152	2392	1105	530	539	905	115	
	f	153	2380	1170	340	330	922	120	
24.0	f	154	2407 2379	648	510	525	910	130	
	p	97	2405	731	378	—	890	123	
	p	98	2401	1143	580	—	920	128	
24.2	p	99	2429	422	640	—	908	129	
	p	100	2420	540	662	—	910	128	
	p	101	2421	579	602	—	900	128	
	f	155	2421	693	285	290	905	130	
	f	156	2420	720	533	560	909	128	
	f	157	2427	1002	615	597	908	122	
	p	102	2438	1140	153	—	910	122	
24.4	p	103	2450	754	569	—	895	127	
	f	158	2455	858	287	282	905	123	
	f	159	2440	910	693	619	903	121	
	p	104	2441	1051	585	—	910	122	
24.8	f	160	2480	930	209	180	910	125	
	f	161	2482	1035	590	610	920	129	
25.0	p	105	2500	1070	575	—	921	130	
25.2	f	162	2537	676	678	680	905	129	
	p	106	2539	780	568	—	900	130	
	p	107	2521	840	655	—	903	130	
	f	163	2530	890	660	650	910	130	
25.4	p	108	2540	623	475	—	880	130	
	f	164	2550	890	421	441	910	130	
25.6	f	165	2560	725	680	700	910	130	
		1S	1908	730	135	—	890	130	
		1.	2240	589	150	—	897	130	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

α. Dk.	Defl.-Dk.	Defl.-Dk	Reduced	Reduced	L. No Mag
775	535	—	692	—	
792	445	460	563	582	7.80, 7.85
790	415	424	527	537	7.68, 7.71
792	210	200	265	253	6.89, 6.89
780	380	395	488	507	7.86, 7.62
767	255	—	233	—	805
797	467	—	574	—	647 +
779	511	—	657	—	911 +
782	534	—	683	—	892 +
772	474	—	615	—	880 +
775	155	160	200	206	6.55, 6.59
781	405	432	518	552	7.66, 7.77
786	493	475	628	604	8.00, 7.92
788	31	—	39	—	660 +
768	442	—	580	—	790 ✓
782	164	159	210	203	6.61, 6.58
782	572	498	731	638	8.27, 8.00
788	463	—	586	—	681 +
785	84	55	107	70	5.83, 5.41
791	461	481	583	608	7.86, 7.92
791	445	—	562	—	683 +
776	549	551	709	710	8.21, 8.22
770	438	—	570	—	
773	525	—	678	—	758 +
780	530	520	678	667	8.14, 8.09
750	345	—	460	—	844 +
780	291	321	374	411	7.26, 7.36
780	650	576	833	731	offaxis, 8.27
760	05	—	7	—	
767	20	—	26	—	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

88 FMC R+ 1894 March 12, 1930

Strip	Class	Star	y	x	Decl	Decl	α	Δh	Var
		2	—	—	170	—	888	129	
		3	—	—	300	—	890	130	
		4	—	—	213	—	900	128	
		5	—	—	278	—	877	130	
		6	—	—	388	—	898	130	
		7	—	—	450	—	900	128	
		8	—	—	701	—	889	130	

Plate finished

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

O.-Dk.	Deff-Dk.	Deff-Dk.	Reduced	Reduced	Magn.	L. No.
759	41	—	54	—		
760	70	—	92	—		
772	85	—	110	—		
747	148	—	199	—		
768	258	—	336	—		
772	322	—	417	—		
759	571	—	753	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

α Jt - R Hyd 1926 — March 12, 1930

Strip	Class	Star	y	x	Δyell	Δyel	Cc	Dc	Volts
		1s	1981	692	133	—	651	139	495
		1	2280	638	176	—	693	147	
		2	—	—	193	—	670	151	
		3	—	—	218	—	677	149	
		4	—	—	261	—	703	152	
		5	—	—	273	—	713	153	
		6	—	—	357	—	737	158	
		7	—	—	393	—	716	152	
		8	—	—	539	—	724	157	
13.8	y	1	1373	721	557	538	736	167	
	y	2	1380	747	608	600	758	160	
	p	1	1370	804	590	—	752	158	
	y	3	1374	878	553	547	749	153	
14.0	p	2	1393	642	461	—	729	153	
	p	3	1412	728	201	—	754	158	
	y	4	1400	827	591	566	763	160	
14.4	p	4	1451	790	589	—	737	157	
	y	5	1448	686	662	650	732	152	
	p	5	1448	747	593	—	748	148	
	y	6	1450	766	607	608	727	151	
	p	6	1437	771	558	—	738	153	
	y	7	1448	838	563	628	760	167	
	p	7	1438	878	632	—	758	157	
	p	8	1447	894	368	—	756	163	
	y	8	1439	929	347	327	761	167	
	y	9	1442	1019	502	481	755	167	
14.6	y	10	1467	637	640	640	747	164	
	y	11	1411	653	528	517	761	173	
	y	12	1477	662	493	468	757	170	
	p	9	1476	742	613	—	759	167	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red. Defl	Mag	L.NO
512	−6	—	−12	—		
546	29	—	53	—		
519	42	—	81	—		
528	69	—	130	—		
551	109	—	198	—		
560	120	—	214	—		
579	199	—	344	—		
564	241	—	427	—		
567	382	—	674	—		
569	390	371	685	651	8.30, 8.19	
598	448	440	750	735	off curve	
594	432	—	726	—		
596	400	394	670	660	8.44, 8.21	
576	308	—	534	—		206 ✗
596	43	—	72	—		239 ✗
603	431	406	715	675	8.41, 8.27	
580	432	—	744	—		
580	510	498	880	860	off curve	
600	445	—	740	—		
576	456	449	790	779	off curve	
585	405	—	690	—		225 ✗
593	396	461	669	778	8.24, off curve	
601	475	—	790	—		
593	205	—	346	—		297 ✗
594	180	160	303	270	6.85, 6.67	
588	335	314	568	534	7.88, 7.78	
583	476	476	816	816	off curve	
588	355	344	604	584	8.01, 7.94	
587	323	298	550	506	7.82, 7.16	
592	446	—	755	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

HJP-RH 1926- March 12, 1930

Trio	Class	Star	y	x	Dyl	Dyl	cl	dk	Plts
		13	1477	769	588	563	756	172	
		14	1462	848	181	180	747	171	
		15	1463	1057	623	623	776	172	
14.8	p	10	1479	463	525	—	738	178	
		16	1482	529	648	671	751	181	
		17	1490	583	658	622	771	183	
		18	1480	684	674	652	771	192	
	p	11	1481	1127	436	—	779	192	
15.0		19	1507	912	667	620	791	197	
		20	1500	950	713	704	788	190	
	p	12	1500	967	663	F	800	193	
	p	13	1503	971	680	—	784	193	
		21	1503	1079	643	640	786	197	
15.2	p	14	1529	613	913	—	748	196	
	p	15	1518	796	502	—	783	194	
	p	16	1529	848	687	—	767	201	
		22	1520	1099	319	393	803	202	
		23	1529	1142	530	554	800	204	
15.4		24	1550	392	421	406	752	193	
		25	1542	637	703	662	758	193	
15.6		26	1564	389	628	611	757	197	
		27	1563	469	592	563	753	183	
	p	17	1571	740	961	—	763	181	
		28	1563	798	560	539	758	183	
	p	18	1569	857	677	—	771	191	
		29	1563	1107	672	667	773	191	
15.8		30	1584	394	633	601	727	183	
		31	1586	469	514	503	746	187	
		32	1580	677	593	563	742	167	
	p	19	1581	690	647	—	741	170	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
584	416	391	714	670	8.41, 8.26	
576	10	9	17	16	2.50, 2.50	
604	441	431	730	714	8.45, 8.42	
560	347	—	620	—		135+
570	467	490	820	860	off curve	
588	475	439	805	745	off curve	
579	482	460	830	795	off curve	
587	244	—	415	—		
594	470	423	790	711	off curve, 8.40	
598	523	514	871	856	off curve	
607	470	—	774	—		
591	487	—	825	—		
589	446	443	756	751	off curve	
552	117	—	212	—		183+
587	308	—	524	—		264+
566	486	—	860	—		
601	117	131	195	218	6.28, 6.15	
596	326	350	546	586	7.80, 7.95	
559	228	213	407	381	7.31, 7.21	
565	510	469	900	830	off curve	
560	431	414	769	737	off curve	
570	409	380	718	666	8.42, 8.24	
582	186	—	310	—		240✓
575	377	350	655	610	8.20, 8.02	
580	486	—	838	—		293+
582	481	476	826	820	off curve	
544	450	418	826	770	off curve	
559	327	316	585	565	7.95, 7.87	
575	426	396	740	689	off curve, 8.31	
571	477	—	835	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Hyp-RH 1926 – March 12/1930

Trip	Class	Star	y	x	Dyf	Dyll	cc	Dk	Pats
	f	33	1581	761	574	552	736	163	
	p	20	1590	770	609	—	749	178	
	f	34	1589	877	582	557	750	180	
	p	21	1579	902	463	—	749	183	
	p	22	1590	907	577	—	756	187	
	f	35	1575	1207	645	623	788	189	
16.0	f	36	1606	308	582	548	693	183	
	f	37	1601	363	517	507	719	189	
	f	38	1609	619	601	581	743	185	
	p	23	1607	838	644	—	761	187	
	p	24	1609	856	320	—	748	184	
	f	39	1608	977	648	621	763	177	
	p	25	1610	983	649	—	752	181	
	p	26	1603	1033	560	—	751	172	
16.2	p	27	1631	062	512	—	737	178	
	p	28	1627	092	637	—	732	184	
	p	29	1626	094	612	—	748	178	
	p	30	1624	828	328	—	749	180	
	f	40	1630	837	643	604	752	179	
	f	41	1630	849	418	432	738	183	
	f	42	1617	1068	540	510	761	184	
		10	1931	692	192	—	710	191	
		1	2280	638	233	—	748	189	
		2	—	—	242	—	744	188	
		3	—	—	276	—	709	191	
		4	—	—	317	—	747	197	
		5	—	—	328	—	738	202	
		6	—	—	403	—	770	200	
		7	—	—	443	—	755	203	
		8	—	—	593	—	759	202	185

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl–Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.N.O.
573	411	389	716	680	8.41, 8.29	
571	425	—	745	—		
570	402	377	704	660	8.96, 8.21	
566	280	—	495	—		
569	390	—	685	—		
599	456	434	762	725	offcurve, 8.45	
510	399	365	783	715	offcurve, 8.41	
530	428	418	810	790	offcurve	
558	416	396	745	710	offcurve, 8.40	
574	457	—	795	—		
564	136	—	242	—		294 ✓
586	471	444	804	756	offcurve	
571	468	—	820	—		342 ✓
579	388	—	670	—		
559	334	—	596	—		
548	453	—	825	—		
570	434	—	760	—		
569	148	—	260	—		279 ✓
573	464	425	810	742	offcurve	
555	235	249	424	448	7.38, 7.46	
577	356	326	616	565	8.06, 7.88	
519	1	—	2	—		
559	44	—	79	—		
556	54	—	97	—		
518	85	—	164	—		
550	120	—	218	—		
536	126	—	234	—		
570	203	—	356	—		
552	240	—	435	—		
557	391	—	702	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

7mc RH 1926 Mar. 13, 1930

trip	class	star	y	x	Diff	Diff	cc	dh	Volt
		18	1921	689	082	—	700	080	
		1	2280	632	100	—	728	078	
		2	—	—	122	—	640	080	
		3	—	—	165	—	710	080	
		4	—	—	195	—	735	078	
		5	—	—	203	—	727	080	
		6	—	—	298	—	740	080	
		7	—	—	354	—	730	080	
		8	—	—	510	—	729	080	
16.4	p	31	1650	511	449	—	680	080	
	f	43	1640	631	278	288	729	080	
	f	44	1659	680	251	198	725	082	
	p	32	1651	802	447	—	741	085	
16.6	p	33	1670	338	281	—	695	085	
	f	45	1670	380	488	470	715	090	
	p	34	1671	698	182	—	750	090	
	p	35	1660	1166	515	—	770	090	
16.8	f	46	1688	790	501	452	740	098	
	f	47	1689	1048	490	400	755	100	
	p	36	1699	1145	400	—	767	105	
	p	37	1690	1180	229	—	770	110	
	f	48	1680	1200	460	465	785	110	
17.0	p	38	1718	310	425	—	705	110	
	f	49	1708	458	548	531	748	110	
	f	50	1708	742	539	540	765	110	
	p	39	1703	992	550	—	770	117	
	f	51	1711	1080	463	430	770	119	
	f	52	1718	1143	281	268	788	110	
17.2	p	40	1728	622	495	—	769	119	
	p	41	1739	900	419	—	772	118	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phec.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. No
620	2	—	3	—		
645	22	—	34	—		
560	42	—	75	—		
630	85	—	135	—		
657	117	—	178	—		
647	123	—	190	—		
660	218	—	330	—		
650	274	—	422	—		
649	430	—	663	—		
600	369	—	615	—		118 ✓
649	198	208	305	320	6.99, 7.07	
643	169	116	263	180	6.79, 6.23	
656	362	—	550	—		274 ✓
610	196	—	321	—		51 ✓
625	398	380	636	607	8.17, 8.07	
660	92	—	140	—		205 ✓
680	425	—	625	—		
642	403	354	626	550	8.14, 7.86	
655	320	300	488	458	7.65, 7.55	
662	295	—	445	—		420 ✓
660	119	—	180	—		426 ✓
675	350	355	518	526	7.75, 7.79	
595	315	—	530	—		23 ✓
638	438	421	685	659	8.38, 8.28	
655	429	430	655	656	8.27, 8.27	
653	433	—	663	—		
651	344	311	528	477	7.79, 7.61	
678	171	158	252	232	6.72, 6.61	
650	376	—	577	—		
654	301	—	460	—		338 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RH 1926 Mar. 13, 1930

trip	class	Star	y	x	Diff	Diff	cl	Dh
17.4	f	53	1749	512	560	542	700	120
	fp	42	1751	556	539	—	787	120
	f	54	1750	577	600	519	752	129
	f	55	1750	648	651	640	770	122
	f	56	1751	661	369	342	770	120
	f	57	1740	680	460	435	775	120
	f	58	1752	959	375	365	780	122
	f	59	1748	1160	547	518	770	122
	f	60	1740	1329	598	585	800	120
17.6	fp	43	1769	310	467	—	715	120
	f	61	1760	450	405	395	730	117
	fp	44	1760	460	170	—	740	118
	fp	45	1770	1239	475	—	775	109
17.8	fp	46	1780	410	569	—	740	101
	f	62	1788	765	600	550	749	100
	f	63	1789	780	471	467	750	100
	f	64	1790	800	591	510	759	100
	f	65	1780	919	508	515	730	100
	f	66	1780	1032	620	549	780	109
	fp	47	1780	1059	579	—	780	110
	f	67	1798	1122	352	360	789	110
		18	1921	689	110	—	700	105
		1	2280	632	130	—	730	108
		2	—	—	200	—	697	110
		3	—	—	175	—	733	105
		4	—	—	200	—	742	108
		5	—	—	660	—	740	110
		6	—	—	940	—	762	109
		7	—	—	945	—	742	110
		8	—	—	580	—	735	110

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.N.O.
630	440	422	700	669	8.42, 8.31	
617	419	—	679	—		
623	471	390	755	626	off cume, 8.29	
648	529	518	815	800	off cume	
640	239	212	373	331	7.30, 7.32	
655	340	315	520	481	7.75, 7.62	
658	253	243	384	368	7.33, 7.27	
648	425	396	655	610	8.27, 8.07	
680	478	465	704	685	8.45, 8.37	
595	347	—	584	—		8+
613	288	278	470	454	7.60, 7.57	
622	52	—	84	—		56✓
666	366	—	548	—		457+
639	468	—	734	—		
649	500	450	770	694	off cume, 8.41	
650	371	367	570	565	7.93, 7.91	
659	491	410	745	620	off cume, 8.11	
630	408	415	648	659	8.22, 8.27	
671	511	440	761	656	off cume, 8.27	
670	469	—	700	—		
679	242	250	356	368	7.22, 7.27	
595	5	—	8	—		
622	22	—	35	—		
584	90	—	153	—		
628	70	—	111	—		
634	92	—	145	—		
630	150	—	238	—		
653	231	—	354	—		
632	235	—	372	—		
625	410	—	655	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

RJP - RH 1926 - Mar. 14, 1930

trip	class	star	y	x	Δeff	Δeq	ce	Δk	
		14	1921	689	082	1	634	081	005
		1	2280	632	103	—	677	078	
		2	—	—	121	—	643	077	
		3	—	—	142	—	662	080	
		4	—	—	157	—	693	080	
		5	—	—	199	—	687	081	
		6	—	—	292	—	713	082	
		7	—	—	322	—	700	083	
		8	—	—	523	—	699	081	
18.0	p	48	1802	339	520	—	682	086	
	p	49	1802	437	558	—	689	087	
	p	68	1808	521	399	391	694	084	
	p	50	1806	528	302	—	689	081	
	p	69	1809	609	550	550	706	082	
	p	70	1796	718	601	593	717	095	
	p	51	1801	924.	221	—	720	091	
	p	71	1809	1029	537	519	747	090	
	p	72	1810	1033	616	616	727	088	
	p	73	1802	1046	358	329	733	084	
	p	74	1803	1128	621	64	740	091	
	p	52	1800	1137	422	—	748	091	
	p	53	1806	1278	548	—	753	091	
	p	54	1809	1348	574	—	757	086	
18.2	p	55	1824	297	539	—	684	091	
	p	75	1820	427	603	632	700	084	
	p	56	1819	493	554	—	700	083	
	p	76	1831	539	538	514	709	087	
	p	57	1821	703	586	—	713	084	
	p	77	1828	887	377	342	722	082	
	p	58	1826	1181	555		752	083	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
553	1	—	2	—		
599	25	—	42	—		
566	44	—	78	—		
582	62	—	107	—		
613	77	—	126	—		
606	118	—	194	—		
631	210	—	332	—		
617	239	—	387	—		
618	442	—	712	—		
596	434	—	725	—		
602	471	—	784	—		
610	315	307	515	504	7.75, 7.73	62 ✓
608	221	—	362	—		
624	468	468	750	750	off curve	
622	506	498	815	804	off curve	
629	130	—	206	—		376 ✓
657	447	429	680	653	8.24, 8.15	
639	528	528	827	827	off curve	
646	271	242	418	374	7.45, 7.30	
649	530	550	816	846	off curve	
657	331	—	504	—		451 ✓
662	457	—	690	—		
671	488	—	728	—		
593	442	—	745	—		
616	519	548	841	890	off curve	
617	471	—	763	—		
622	451	427	725	686	8.37, 8.26	
629	502	—	795	—		238 ✓
640	295	260	460	406	7.58, 7.42	
669	472	—	705	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

ZgP – RH 1926 – March 14, 1930

Trip	Class	Star	y	b	Defl	Defl	Cl	Dk Pol's
	p	59	1828	1202	617	—	727	083
	p	60	1820	1229	201	—	757	082
	p	78	1838	1258	450	422	770	084
18.4	p	79	1838	263	508	506	694	088
	p	61	1850	298	541	—	681	082
	p	80	1843	304	545	509	694	081
	p	62	1848	328	527	—	673	082
	p	81	1842	347	441	440	693	083
	p	63	1840	372	572	—	682	083
	p	64	1842	403	548	—	710	084
	p	82	1840	503	362	363	712	086
	p	83	1841	949	902	298	740	087
	p	65	1843	1357	377	—	757	084
18.6	p	66	1871	203	429	—	683	083
	p	84	1870	227	577	570	658	083
	p	85	1863	394	553	553	678	084
	p	67	1861	443	243	—	696	088
	p	68	1870	472	430	—	729	086
	p	69	1870	552	602	—	707	084
	p	86	1871	557	557	545	693	084
	p	70	1870	608	608	—	708	090
	p	71	1867	686	552	—	703	089
	p	87	1868	703	483	482	737	090
	p	88	1873	843	233	227	726	090
	p	89	1860	1149	598	584	738	084
	p	90	1870	1167	617	628	743	083
	p	91	1864	1212	481	468	732	091
	p	72	1872	1277	555	—	748	089
18.8	p	92	1883	242	375	346	681	087
	p	93	1891	328	460	442	686	087

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
644	524	—	814	—		478+
675	119	—	176	—		479+
686	366	338	534	493	7.81, 7.69	
606	470	468	775	773	off curve,	
599	459	—	765	—		
613	464	428	755	700	off curve, 8.30	
591	445	—	753	—		
610	358	357	586	585	7.96, 7.96	
599	489	—	815	—		1274+
626	464	—	740	—		
626	276	277	440	442	7.52, 7.53	
653	215	211	330	323	7.11, 7.08	
673	293	—	435	—		
600	346	—	576	—		1235+
570	494	487	865	855	off curve	
594	469	469	790	790	off curve	
608	155	—	254	—		1279✓
637	344	—	540	—		
623	518	—	834	—		
606	470	458	775	756	off curve	
618	510	—	825	—		
614	463	—	755	—		
647	393	392	607	605	8.01, 8.00	
636	143	137	224	215	6.55, 6.49	
654	514	500	785	765	off curve	
660	534	545	808	825	off curve	
641	390	377	608	587	8.01, 7.97	
659	466	—	706	—		
594	288	259	485	436	7.66, 7.50	
599	373	355	623	593	8.07, 7.99	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Zpp-RH1926-Mar. 14, 1930

Strip	Class	Star	y	x	Dyf	Dyf	Cl	Dk	Volts
	p	73	1887	368	503	—	690	088	
	p	74	1882	383	297	—	681	087	
	p	94	1881	512	410	413	709	092	
	p	75	1883	712	588	—	737	093	
	p	95	1880	739	509	510	720	092	
	p	96	1880	856	201	193	729	092	
	p	76	1881	988	582	—	718	092	
	p	77	1890	1310	612	—	757	092	
	p	78	1882	1327	492	—	743	092	
19.0	p	79	1901	402	247	—	670	084	
	p	80	1900	417	343	—	691	083	
	p	97	1912	653	320	323	707	089	
	p	98	1910	787	471	508	729	092	
	p	99	1913	838	201	209	704	092	
	p	100	1903	1118	470	460	739	089	
	p	10	1921	689	093	—	672	091	
		1	2280	632	107	—	700	083	
		2	—	—	129	—	677	087	
		3	—	—	153	—	710	095	
		4	—	—	180	—	723	102	
		5	—	—	229	—	716	102	
		6	—	—	210	—	743	107	
		7	—	—	341	—	729	101	
		8	—	—	512	—	704	100	505

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj..1274C

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO
602	415	—	690	—		1244 ✓
594	210	—	354	—		1251 ✓
614	318	321	515	520	7.76, 7.78	
644	495	—	770	—		148 +
628	417	418	665	666	8.20, 8.20	
637	109	101	171	158	6.22, 6.14	
626	490	—	780	—		
665	520	—	782	—		519 +
651	400	—	615	—		
589	163	—	276	—		1242 ✓
608	260	—	426	—		1246 ✓
618	231	234	373	378	7.30, 7.31	
631	379	416	600	658	8.00, 8.18	
612	109	111	178	181	6.27, 6.30	
644	381	371	593	576	7.99, 7.94	
581	2	—	3	—		
617	24	—	39	—		
590	42	—	71	—		
605	58	—	96	—		
621	78	—	125	—		
614	127	—	208	—		
636	203	—	315	—		
622	240	—	386	—		
604	412	—	680	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

MKD RH 1926 Mar. 15, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volts
		1S	1921	685	075	—	660	068	5.08
		1	2280	630	090	—	713	071	
		2	—	—	117	—	680	070	
		3	—	—	140	—	680	065	
		4	—	—	155	—	720	070	
		5	—	—	200	—	708	069	
		6	—	—	282	—	732	067	
		7	—	—	318	—	719	064	
		8	—	—	500	—	712	070	
19.2	p	81	1919	200	190	—	695	080	
	p	82	1936	240	445	—	700	080	
	p	83	1937	295	280	—	680	074	
	f	101	1924	402	537	510	712	080	
	f	102	1927	647	522	462	729	070	
	f	103	1912	649	310	311	714	070	
	f	104	1920	709	290	290	740	070	
	f	105	1925	1298	420	410	775	080	
19.4	f	106	1940	400	445	433	693	082	
	f	107	1944	623	475	460	710	082	
	p	84	1940	1274	400	—	778	085	
	f	108	1941	1276	340	320	760	070	
		1S	1921	685	085	—	672	080	
		1	2280	630	100	—	727	078	
		2	—	—	121	—	688	080	
		3	—	—	148	—	700	077	
		4	—	—	170	—	719	081	
		5	—	—	200	—	709	080	
		6	—	—	300	—	730	080	
		7	—	—	330	—	720	085	
		8	—	—	510	—	720	085	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk	Defl-Dk	Def-Dk	Red Defl	Red Defl	Mag L. No.
593	7	—	12	—	
642	19	—	30	—	
610	47	—	77	—	
615	75	—	122	—	
650	85	—	131	—	
639	131	—	204	—	
665	215	—	322	—	
655	254	—	388	—	
642	430	—	671	—	
615	110	—	179	—	1214 ×
620	365	—	588	—	
606	200	—	330	—	1208 ×
632	457	430	723	6.81	Officina, 8.33
659	452	392	685	5.95	8.35, 8.05
644	240	241	373	374	7.29, 7.29
670	220	220	329	329	7.11, 7.11
695	340	330	490	475	7.70, 7.65
611	363	351	594	575	8.04, 7.98
628	393	378	625	602	8.16, 8.08
693	315	—	453	—	
690	270	250	391	363	7.35, 7.26
592	5	—	8	—	
649	22	—	34	—	
608	41	—	67	—	
623	71	—	114	—	
638	89	—	139	—	
629	120	—	191	—	
650	220	—	339	—	
635	245	—	388	—	
635	425	—	670	—	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

FMC RH 1926 Mar. 15, 1930

trip	class	star	y	x	Diff	Diff	d	dh
		15	1921	685	080	—	650	078
		1	2280	620	100	—	680	078
		2	—	—	118	—	560	078
		3	—	—	141	—	647	070
		4	—	—	175	—	690	069
		5	—	—	220	—	682	078
		6	—	—	300	—	703	081
		7	—	—	328	—	703	081
		8	—	—	480	—	689	078
19.6	f p	85	1977	469	460	—	681	090
	f	109	1968	490	510	502	705	098
	f	110	1960	580	300	311	700	089
	f	111	1959	695	349	310	710	090
	f	112	1970	778	380	380	710	092
	f	113	1970	1161	198	210	750	097
	f	114	1969	1337	525	515	761	100
	f	115	1971	1350	501 ~~527~~	480	750	110
	f	116	1960	1354	380	380	751	100
19.8	f	117	1981	210	540	520	670	092
	f p	86	1990	263	430	—	678	092
	f	118	1990	369	520	490	680	090
	f	119	1989	412	508	475	700	097
	f	120	1998	446	250	250	700	099
	f	121	1999	480	360	351	700	102
	f	122	1980	935	400	400	740	110
	f p	87	1990	1242	169	—	757	105
	f p	88	1979	1379	440	—	766	110
20.0	f p	89	2001	713	368	—	691	101
	f	123	2015	360	450	410	680	095
	f p	90	2000	370	395	—	682	095

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
572	2	—	3	—		
602	22	—	37	—		
482	40	—	83	—		
577	71	—	123	—		
521	106	—	203	—		
604	142	—	235	—		
622	219	—	351	—		
622	247	—	398	—		
611	402	—	656	—		
591	370	—	629	—		1189 ✓
607	412	404	680	667	off curve, 8.37	
611	211	222	345	364	7.07, 7.17	
620	259	220	418	355	7.33, 7.12	
618	298	298	481	481	7.59, 7.59	
653	101	113	154	173	5.96, 6.10	
661	425	415	643	628	8.25, 8.19	
640	391	370	611	578	8.13, 7.98	
651	270	270	415	415	7.33, 7.33	
588	448	428	762	728	off curve	
586	338	—	578	—		1176 ✓
590	430	400	728	678	off curve	
603	411	378	680	628	off curve, 8.20	
601	151	151	251	251	6.63, 6.60	
598	258	249	422	416	7.37, 7.33	
630	290	290	461	461	7.51, 7.51	
652	64	—	98	—		536 ✓
656	330	—	503	—		534 ✓
590	267	—	452	—		1104 ✓
585	355	315	606	538	8.10, 7.80	
587	300	—	512	—		1166 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

FMC RH 1926 Mar. 15, 1930

Strip	class	star	y	x	Diff	Diff	cl	Dh
20.0	p	91	2000	540	370	—	699	095
	f	124	2008	582	148	149	705	095
	f	125	2010	822	541	515	720	110
	p	92	2000	1078	525	—	758	104
	p	93	2001	1230	500	—	768	110
20.2	f	126	2030	410	469	470	710	110
	f	127	2030	618	440	440	730	110
	f	128	2022	652	549	540	722	100
	f	129	2038	721	528	485	725	100
	f	130	2030	770	550	540	720	108
20.4	f	131	2049	313	353	329	670	100
	f	132	2057	368	470	490	690	110
	f	133	2040	380	487	460	690	115
	f	134	2048	580	530	510	725	128
	f	135	2050	799	490	480	740	130
	f	136	2051	963	461	449	753	140
20.6	f	137	2060	212	562	501	692	130
	f	138	2070	320	458	455	710	130
	f	139	2061	328	580	560	700	120
	f	140	2070	680	505	479	719	118
	p	94	2069	699	455	—	695	120
	f	141	2070	873	531	530	710	112
	f	142	2069	885	479	452	720	105
	p	95	2068	1108	340	—	740	108
	p	96	2060	1118	489	—	730	110
20.8	p	97	2090	208	512	—	690	110
	p	98	2087	466	351	—	695	115
	f	143	2080	755	555	550	730	120
	f	144	2098	802	569	550	730	120
	f	145	2090	880	539	558	740	125

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj..1274C

Cl.-Dk	Dfl.-Dk	Dfl.-Dk	Reduced	Reduced	Magn.	I. No.
604	275	—	453	—		1171 ✓
610	53	54	87	88	5.25, 5.25	
610	431	405	705	663	off curve, 8.35	
654	421	—	643	—		
658	390	—	592	—		541 ✓
600	359	360	597	598	8.07, 8.07	
620	330	330	532	532	7.80, 7.80	
622	449	440	722	707	off curve	
625	428	385	686	615	off curve, 8.15	
612	442	432	722	705	off curve.	
570	253	229	445	402	7.43, 7.29	
580	360	320	620	552	8.17, 7.88	
575	372	345	645	600	8.27, 8.08	
597	402	382	672	640	8.38, 8.25	
610	360	350	590	573	8.03, 7.97	
613	321	309	523	506	7.75, 7.67	
562	432	371	763	660	off curve, 8.33	
580	328	325	549	543	7.85, 7.83	
580	460	440	793	758	off curve	
601	387	361	643	600	8.27, 8.08	
575	335	—	582	—		252 ✓
598	419	418	700	698	off curve	
615	374	347	608	565	8.11, 7.93	
632	232	—	366	—		570 ✓
620	379	—	611	—		
580	402	—	692	—		
580	236	—	405	—		1109 ✓
610	435	430	713	7.10	off curve	
610	449	440	733	722	off curve	
615	414	433	673	702	8.39, off curve	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

FMC R# 1926 Mar. 15, 1930

trip	class	star	y	x	Diff	Diff	α	Δh
20.8	f	99	2080	902	285	—	745	125
	f	146	2098	910	560	572	781	113
	f	100	2090	970	449	—	738	110
21.0	f	147	2111	210	445	415	680	110
	f	148	2101	610	330	332	703	105
	f	149	2108	778	553	575	710	105
	f	150	2100	850	500 478	69 478	700	105
	f	151	2100	1089	528	500	740	110
	f	101	2105	1100	390	—	740	110
	f	152	2119	1370	231	230	760	127
	f	1S	1921	685	128		700	123
		1	2280	620	152	—	730	128
		2	—	—	163	—	570	125
		3	—	—	189	—	700	129
		4	—	—	209	—	730	125
		5	—	—	250	—	720	129
		6	—	—	355	—	750	130
		7	—	—	410	—	722	130
		8	—	—	520	—	730	130
FMC R#1926 Mar. 17, 1930		1S	1921	685	005	—	648	001
		1	2280	630	025	—	679	007
		2	—	—	052	—	650	001
		3	—	—	070	—	641	000
		4	—	—	098	—	686	001
		5	—	—	130	—	662	002
		6	—	—	238	—	690	005
		7	—	—	288	—	681	005
		8	—	—	483	—	678	005
21.2	f	153	2130	253	469	400	651	008
	f	154	2125	342	599	470	658	010

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

cl-Dk	Defl Dk	Defl Dk	Red Defl	Red Defl	Mag	L. No
620	160	—	258	—		627 ✓
618	447	459	725	743	off curve	
628	339	—	540	—		601 ✓
570	335	305	588	536	8.02, 7.80	
598	225	227	375	380	7.19, 7.21	
605	448	470	742	778	off curve	
595	395	373	665	628	8.35, 8.20	
630	418	390	665	620	8.35, 8.18	
630	280	—	445	—		587 ✓
633	104	103	161	160	6.00, 6.00	
677	5	—	7	—		
602	24	—	40	—		
445	38	—	85	—		
571	60	—	105	—		
605	84	—	139	—		
591	121	—	205	—		
620	225	—	364	—		
592	280	—	455	—		
600	390	—	650	—		
647	4	—	6	—		
672	18	—	27	—		
649	51	—	79	—		
641	70	—	109	—		
685	97	—	142	—		
660	128	—	194	—		
685	233	—	340	—		
676	283	—	418	—		
668	478	—	716	—		
643	461	442	717	686	8.41, 8.35	
648	529	460	815	708	off curve, 8.38	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RH 1926 Mar. 17, 1930

Trip	class	star	y	x	Diff	Diff	α	Δδ
21.2	f	102	2138	373	460	—	660	015
	f	155	2130	551	468	418	662	008
	f	156	2130	570	518	503	660	008
	f	157	2132	750	484	470	678	010
	p	103	2131	1009	189	—	688	010
	p	104	2120	1185	455	—	710	009
	f	158	2130	1260	450	438	715	006
	f	159	2126	1265	121	108	709	005
21.4	p	105	2100	220	440	—	640	007
	f	160	2149	442	191	170	649	002
	p	106	2158	620	490	—	668	002
	p	107	2150	701	460	—	692	002
	p	108	2150	1088	168	—	702	008
21.6	f	161	2170	369	499	492	670	010
	f	162	2160	586	210	170	668	010
	f	163	2160	810	470	440	710	010
	f	164	2178	912	388	340	690	013
	f	165	2171	991	499	482	710	012
✓	f	166	2170	1330	465	465	721	011
21.8	p	109	2190	589	491	—	683	012
	f	167	2180	790	130	112	655	010
	f	168	2191	949	365	381	708	010
	p	110	2198	950	497	—	699	019
	p	111	2190	1050	250	—	702	011
	f	169	2180	1085	473	430	718	010
	f	170	2180	1355	410	368	720	010
22.0	f	171	2200	378	412	395	659	019
	f	172	2200	598	345	325	668	020
	f	173	2201	711	380	350	673	010
	f	174	2201	724	400	420	679	010

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
645	445	—	690			
654	460	410	703	627	8.37, 8.15	
652	510	495	783	760	off curve	
668	474	460	708	687	8.38, 8.34	
678	179	—	268	—		625 ✓
701	446	—	636	—		588 ×
709	444	432	625	607	8.15, 8.08	
704	116	103	165	144	6.16, 6.02	
633	433	—	685	—		1110 ×
647	189	168	291	259	6.91, 6.72	
666	488	—	735	—		977 ×
690	458	—	665	—		2035 ×
694	160	—	231	—		606 ✓
660	489	482	743	730	off curve	
658	200	160	303	243	6.95, 6.65	
700	460	430	658	615	8.25, 8.11	
677	375	327	553	484	7.92, 7.67	
698	487	470	698	672	8.35, 8.30	
710	454	454	640	640	8.19, 8.19	
671	479	—	714	—		975 ×
675	120	102	178	151	6.24, 6.05	
698	375	371	538	530	7.87, 7.84	
680	478	—	705	—		
691	239	—	346	—		642 ✓
708	463	420	652	692	8.24, 8.35	
710	390	358	549	506	7.90, 7.75	
640	393	376	617	588	8.11, 8.01	
648	325	305	501	488	7.73, 7.69	
663	370	340	558	512	7.92, 7.78	
669	390	410	583	613	8.01, 8.10	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RH 1926, Mar. 17, 1920

Trip	class	star	y	x	Dyff	Dxff	a	Dh
22.0	fp	112	2210	831	452	—	690	010
	f	175	2211	957	475	441	691	010
	fp	113	2211	1019	372	—	695	007
	f	176	2210	1070	530	540	708	003
22.2	fp	114	2238	350	308	—	660	003
	f	177	2221	712	465	417	662	002
	fp	115	2239	820	468	—	688	002
	f	178	2231	937	170	178	690	002
	f	179	2220	949	450	440	698	002
	f	180	2220	1220	452	449	705	002
22.4	f	181	2240	291	201	183	648	000
	f	182	2257	541	422	405	672	025
	fp	116	2252	580	410	—	685	028
	f	183	2241	598	150	130	695	028
	f	184	2250	610	520	498	680	021
		15	1921	685	028	—	630	025
		1	2280	630	045	—	642	021
		2	—	—	070	—	505	021
✓		3	—	—	091	—	660	022
		4	—	—	102	—	680	022
		5	—	—	147	—	668	025
		6	—	—	240	—	680	025
		7	—	—	322	—	671	025
		8	—	—	455	—	669	022

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	mag	L.N.O.
680	442	—	650	—		765 ✓
681	465	431	682	632	8.32, 8.18	
688	365	—	530	—		664 ✓
703	517	537	735	763	off curve	
657	305	—	482	—		1044 ✓
660	463	415	701	628	8.37, 8.16	
686	461	—	672	—		778 ✓
688	168	171	245	248	6.17, 6.18	
696	448	438	645	630	8.20, 8.15	
703	450	447	638	638	8.17, 8.17	
648	201	183	310	282	6.97, 686	
647	397	380	614	588	8.11, 8.01	
657	382	—	580	—		948 ✓
672	127	107	189	159	6.30, 6.10	
659	499	477	757	722	off curve, 8.42	
605	3	—	5	—		
661	24	—	37	—		
484	49	—	101	—		
638	69	—	108	—		
658	80	—	122	—		
643	122	—	189	—		
655	215	—	328	—		
646	297	—	461	—		
647	433	—	670	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

MKD RH 1926 March 18, 1930

Strip	Dura	Star	y	x	Dyf	Dyf	cl	Dh	Vdh
		18	1921	706	001	—	655	005	5.02
		1	2280	650	020	—	695	0	
		2	—	—	060	—	660	0	
		3	—	—	080	—	670	0	
		4	—	—	090	—	701	—0	
		5	—	—	130	—	671	0	
		6	—	—	220	—	698	0	
		7	—	—	260	—	690	0	
		8	—	—	452	—	685	0	
22.6	p	117	2260	323	330	—	660	004	
	p	118	2275	349	250	—	665	0	
	p	119	2270	701	463	—	708	0	
22.8	f	185	2290	342	380	362	670	005	
	f	186	2290	878	320	290	709	0	
	p	120	2283	987	290	—	700	002	
	p	121	2290	1047	429	—	720	004	
23.0	p	122	2304	385	431	—	680	005	
	f	187	2300	540	365	345	698	008	
	p	123	2310	916	382	—	708	010	
	p	124	2307	1096	332	—	722	005	
	p	125	2301	1229	365	—	725	004	
		18	1921	706	010	—	645	008	
		1	2280	650	030	—	690	010	
		2	—	—	065	—	650	0	
		3	—	—	090	—	670	010	
		4	—	—	100	—	690	002	
		5	—	—	130	—	668	002	
		6	—	—	225	—	695	007	
		7	—	—	264	—	699	015	
		8	—	—	450	—	680	010	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.:1274C

Cl.-Sk.	Defl.-Sk.	Defl.-Sk.	Reduced Defl.	Reduced Defl.	Magn.	L. No.
650	−4	—	—	—		
695	20	—	29	—		
660	60	—	91	—		
670	80	—	119	—		
701	90	—	128	—		
671	130	—	194	—		
698	220	—	314	—		
690	260	—	377	—		
685	452	—	659	—		
656	326	—	498	—		1043 +
665	250	—	376	—		1030 −
708	463	—	652	—		1080 +
665	375	357	563	537	8.10, 8.00	893 ✓
709	320	290	452	408	7.75, 7.57	
698	288	—	413	—		713 ✓
716	425	—	594	—		688 ✓
675	426	—	631	—		
690	357	337	518	489	7.94, 7.85	
698	372	—	530	—		748 ✓
717	327	—	458	—		679 ✓
721	361	—	500	—		647 +
637	2	—	3	—		
680	20	—	29	—		
650	65	—	100	—		
660	80	—	121	—		
688	98	—	142	—		
666	128	—	192	—		
688	218	—	317	—		
684	249	—	365	—		
670	440	—	658	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

JMC RH 1926 Mar. 18, 1930

trip	class	Star	y	x	Diff	Diff	α	Dk
		1S	1921	706	-0	—	619	-0
		1	2280	650	011	—	653	-0
		2	—	—	036	—	570	-0
		3	—	—	069	—	638	-0
		4	—	—	081	—	660	-0
		5	—	—	120	—	640	-0
		6	—	—	210	—	669	-0
		7	—	—	240	—	650	-0
		8	—	—	440	—	659	-0
23.2	f	188	2320	350	410	379	640	-0
	f	189	2320	368	370	362	658	-0
	p	126	2338	1230	037	—	699	-0
23.4	f	190	2350	378	279	278	650	-0
	f	191	2358	561	353	351	664	-0
	f	192	2341	740	090	080	679	-0
	f	193	2351	825	510	470	689	-0
23.6	p	127	2359	610	350	—	667	-0
	f	194	2369	777	430	401	670	0
	f	195	2360	784	360	345	680	0
	f	196	2360	800	512	473	680	0
	f	197	2378	880	145	141	688	0
	p	128	2360	917	422	—	670	0
	p	129	2363	1150	359	—	695	0
23.8	f	198	2381	630	330	331	678	0
	f	199	2390	814	390	375	679	005
	p	130	2397	911	480	—	701	012
	f	200	2389	1260	245	231	725	020
24.0	f	201	2411	632	381	371	710	030
	f	202	2402	720	420	400	700	030
	p	131	2408	829	252	—	712	035

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
619	0	—	0	—		
653	11	—	17	—		
520	36	—	69	—		
638	69	—	108	—		
660	81	—	123	—		
640	120	—	187	—		
669	210	—	314	—		
650	240	—	369	—		
657	440	—	670	—		
640	410	379	641	593	8.11, 7.96	
658	370	362	562	549	7.87, 7.81	
699	37	—	53	—		660 ✓
650	279	278	430	429	7.45, 7.44	
664	353	351	531	529	7.77, 7.76	
679	90	80	132	118	5.79, 5.60	
689	510	470	740	682	8.43, 8.26	
667	350	—	532	—		907 ✓
670	430	401	642	599	8.18, 7.98	
680	360	345	529	507	7.75, 7.70	
680	512	473	752	696	8.43, 8.30	
688	145	141	211	205	7.77R, 6.41	
670	422	—	629	—		
695	359	—	516	—		681 ✓
678	330	331	485	486	7.62R, 7.62R	
674	385	370	572	549	7.90, 7.81	
689	468	—	680	—		764 ✓
705	225	211	320	300	7.03, 6.95	
680	351	341	515	500	7.72, 7.67	
670	400	370	598	553	7.97, 7.83	
677	217	—	321	—		805 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC R+ 1926 Mar. 18, 1930

Trip	Class	Star	y	ψ	Diff	Diff	c	Dc
24.0	f	203	2400	1092	410	380	730	040
	fp	132	2415	1179	440	—	720	040
24.2	fp	133	2429	532	382	—	715	043
	f	204	2430	680	220	220	721	037
	f	205	2430	710	423	420	708	028
	f	206	2430	990	458	440	713	028
	f	207	2420	1109	403	370	725	025
24.4	fp	134	2441	860	370	—	713	023
	f	208	2449	899	435	420	735	020
24.6	fp	135	2470	648	471	—	703	020
	fp	136	2460	682	430	—	700	080
	f	209	2460	845	212	190	700	080
24.8	f	210	2490	917	073	078	685	012
	f	211	2490	1021	450	448	720	015
25.0	fp	137	2501	535	450	—	700	012
25.2	f	212	2539	880	469	460	710	012
	fp	138	2580	906	409	—	720	010
		1S	1921	706	018	—	630	011
		1	2280	650	041	—	675	018
		2	—	—	090	—	530	019
		3	—	—	095	—	658	015
		4	—	—	100	—	675	012
		5	—	—	170	—	659	010
		6	—	—	250	—	680	015
		7	—	—	305	—	678	011
		8	—	—	485	—	670	015

Plate finished

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
690	370	340	537	493	7.79, 7.65	
680	460	—	588	—		683+
672	339	—	497	—		426+
684	183	183	268	268	6.80, 6.80	
680	395	392	580	576	7.91, 7.90	
685	430	412	627	600	8.07, 7.97	
700	378	345	540	498	7.80, 7.67	
690	347	—	502	—		792+
715	415	400	588	567	7.94, 7.91	
683	451	—	660	—		
680	410	—	603	—		880+
680	192	170	282	250	6.88, 6.70	
673	61	66	91	98	5.30, 5.38	
705	435	433	617	612	8.04, 8.02	
688	438	—	636	—		911+
598	457	448	766	750	8.51, 8.48	
610	399	—	654	—		
619	7	—	11	—		
657	23	—	35	—		
511	71	—	139	—		
643	80	—	124	—		
663	88	—	133	—		
649	160	—	246	—		
665	235	—	354	—		
667	294	—	441	—		
655	470	—	717	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

KGP - RH 1927 - March 15, 1930

Sup.	class	star	y	y	Diff	Diff	α	δh	
		10	1913	682	007	+	743	013	510
		1	2253	553	039	—	827	007	
		2	—	—	068	—	748	007	
		3	—	—	113	—	790	008	
		4	—	—	130	—	808	010	
		5	—	—	209	—	819	010	
		6	—	—	310	—	766	011	
		7	—	—	393	—	846	012	
		8	—	—	581	—	818	013	
14.0	f	1	1403	807	653	671	830	015	
14.2	p	1	1430	681	663	—	822	017	
	p	2	1422	823	110	—	833	014	
14.4	f	2	1451	747	664	703	819	019	
	f	3	1451	819	622	678	837	022	
	p	3	1454	860	617	—	827	023	
	f	4	1442	909	344	388	828	027	
	f	5	1449	1000	582	597	850	026	
14.6	f	6	1477	694	582	607	843	022	
	f	7	1467	828	039	040	822	018	
	f	8	1470	1037	688	700	848	017	
14.8	f	9	1480	642	544	562	823	015	
	f	10	1479	747	646	722	831	017	
	p	4	1490	753	680	—	816	020	
	p	5	1487	824	687	—	839	017	
	p	6	1490	980	396	—	842	018	
15.0	p	7	1510	689	251	—	804	016	
	f	11	1510	693	712	710	837	019	
	f	12	1509	1060	688	707	854	017	
15.2	f	13	1526	1082	265	271	856	017	
	f	14	1530	1122	561	613	847	017	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced Magn.		L. Ks.
740	4	—	5	—		
820	26	—	32	—		
741	61	—	82	—		
782	105	—	135	—		
798	120	—	150	—		
803	199	—	249	—		
755	299	—	396	—		
834	381	—	456	—		
805	568	—	706	—		
815	638	656	784	805	off curve	
805	644	—	800	—		
819	96	—	117	—		239+
800	645	684	806	855	off curve	
825	600	656	727	795	off curve	
804	594	—	739	—		225+
801	317	361	397	450	7.12, 7.32	
824	556	571	673	693	8.20, 8.27	
821	560	585	683	713	8.23, 8.35	
804	21	22	26	27	3.90, 3.91	
831	671	683	807	820	off curve	
808	526	547	651	678	8.11, 8.20	
814	629	705	772	865	off curve	
796	660	—	829	—		
816	670	—	821	—		
824	378	—	459	—		297+
788	235	—	298	—		
818	693	691	841	840	off curve	
837	671	690	804	825	off curve	
839	248	254	296	302	6.70, 6.73	
830	544	496	655	598	8.12, 8.08	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Zgp - RH 1927 - March 18, 1930

Mag	Class	Star	y	x	Dyf	Dyf	cl.	Dk Plate
15.4	p	8	1540	868	493	—	812	012
15.6	f	15	1551	972	402	434	807	012
	f	16	1567	368	661	715	808	013
	f	17	1568	449	609	613	819	012
	f	18	1568	778	583	685	840	017
	p	9	1560	917	703	—	827	018
15.8	f	19	1588	374	690	700	812	014
	f	20	1580	388	712	751	807	013
	p	10	1590	392	319	—	798	012
	f	21	1590	449	576	560	812	013
	p	11	1588	602	590	—	822	011
	f	22	1581	658	642	653	809	013
	f	23	1584	741	608	628	830	017
	p	12	1580	802	327	—	807	016
	f	24	1590	856	641	672	816	013
16.0	f	25	1604	343	562	600	827	014
	p	13	1610	569	524	—	829	014
	f	26	1610	598	640	672	839	012
	p	14	1603	616	509	—	829	014
	p	15	1602	649	710	—	818	012
	p	16	1603	649	674	—	822	013
	f	27	1611	957	690	702	842	018
16.2	p	17	1630	306	450	—	817	017
	p	18	1699	363	567	—	783	012
	f	28	1632	817	760	716	828	013
	f	29	1634	830	457	451	819	018
	p	19	1633	890	697	—	827	021
	p	20	1620	909	479	—	833	022
	p	21	1633	961	629	—	827	018
	f	30	1621	1048	087	567	853	013

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
800	481	—	601	—		279 ✓
795	390	422	492	532	7.49, 7.63	
795	648	702	815	882	off curve	
801	597	601	745	750	off curve	
823	566	668	688	813	8.25, off curve	
809	685	—	847	—		
798	676	686	845	857	off curve	
794	699	638	881	805	off curve	
786	307	—	390	—		51 ✓
799	563	547	702	684	8.32, 8.24	
811	579	—	715	—		90 ✓
790	629	640	795	808	off curve	
813	591	611	726	750	off curve	
791	311	—	394	—		240 ✓
803	628	659	783	822	off curve	
813	548	586	673	718	8.20, off curve	
815	510	—	626	—		118 ✓
821	628	660	765	804	off curve	
809	495	—	612	—		
806	698	—	868	—		
809	661	—	815	—		
824	672	684	815	830	off curve	
800	437	—	548	—		23 ✓
771	555	—	719	—		
815	687	703	842	863	off curve	
801	433	433	542	542	7.66, 7.66	
806	676	—	840	—		8 ✓
811	457	—	563	—		
809	611	—	756	—		
840	574	574	683	683	8.22, 8.22	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

2 Jp – C# 1927 – March 18, 1930

Strip	Class	Star	y	x	Diff	Diff	Cc	Dk Plts
16.4	p	22	1643	393	723	—	800	023
	p	31	1644	618	932	987	837	023
	p	23	1651	878	267	—	847	027
	p	24	1640	907	268	—	822	028
16.6	p	32	1670	367	623	618	813	027
	p	25	1660	432	610	—	810	027
	p	33	1666	642	712	723	843	027
	p	34	1660	666	229	233	821	021
	p	26	1670	144	143	—	820	027
	p	27	1679	853	522	—	827	031
	p	28	1671	1083	601	—	843	031
16.8	p	29	1681	346	542	—	817	028
	p	35	1680	648	697	691	836	028
	p	36	1690	777	568	632	847	037
	p	37	1690	1031	492	419	854	042
	p	38	1686	1186	580	591	865	040
17.0	p	39	1700	381	552	542	822	039
	p	40	1710	899	677	680	817	062
	p	30	1704	498	111	—	819	041
	p	31	1709	641	663	—	830	033
	p	41	1710	727	623	651	840	030
17.2	p	32	1722	367	612	—	817	031
	p	33	1720	089	639	—	823	030
	p	34	1727	842	737	—	847	032
	p	42	1721	884	663	693	829	037
	p	43	1720	1043	689	753	853	033
	p	44	1718	1067	513	555	857	033
	p	45	1720	1129	283	301	854	042
17.4	p	35	1737	321	653	—	829	038
	p	36	1740	460	651	—	832	040

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Deff-Dk	Deff-Dk	Red Deff	Red Deff	Mag	L. No
777	700	—	900	—		
814	309	364	380	447	7.03, 7.32	
820	240	—	292	—		279 ✓
794	240	—	302	—		294 ✓
786	596	581	758	739	offcurve	
783	583	—	745	—		
816	685	696	840	852	offcurve	
800	208	212	260	264	6.55 8.12, 6.55	
793	146	—	184	—		205 ✓
796	491	—	616	—		274 ✓
812	570	—	703	—		
789	514	—	650	—		8 ✓
808	669	663	827	820	offcurve	
810	531	595	655	735	8.12, offcurve	
812	450	437	555	540	7.71, 7.65	
825	540	551	655	667	8.18, 8.17	
783	513	503	655	643	8.12, 8.06	
785	645	648	820	825	offcurve	
778	70	—	90	—		56 ✓
797	630	—	790	—		
810	593	621	731	765	offcurve	
786	581	—	739	—		
793	603	—	760	—		
815	705	—	865	—		
786	626	656	796	834	offcurve	
820	656	720	800	878	offcurve	
824	480	522	583	633	7.82, 8.02	
815	241	258	296	316	6.69, 6.77	
785	615	—	785	—		
792	611	—	772	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Aug 1 – RH 1927 – March 18, 1930

Strip	Class	Star	y	x	Dyel	Dyel	Cl	Dk	Wts
		46	1750	499	660	700	823	043	
		47	1753	562	636	700	841	041	
		48	1757	648	384	409	853	040	
		49	1741	666	490	488	838	037	
		50	1740	750	567	540	838	037	
		51	1751	1247	637	622	851	043	
		1A	1913	682	044	—	798	038	
		1	2253	553	067	—	836	040	
		2	—	—	103	—	783	040	
		3	—	—	141	—	833	041	
		4	—	—	160	—	899	040	
		5	—	—	232	—	842	038	
		6	—	—	329	—	819	040	
		7	—	—	373	—	846	037	
		8	—	—	584	—	830	039	570
	MRD.		RH	1927,	March 19,	1930			5.10
		1S	1913	723	003	—	795	0	
		1	2253	595	030	—	850	0	
		2	—	—	070	—	820	0	
		3	—	—	120	—	840	0	
		4	—	—	150	—	850	008	
		5	—	—	250	—	859	008	
		6	—	—	323	—	821	007	
		7	—	—	380	—	870	005	
		8	—	—	630	—	865	010	
17.6		37	1760	259	520	—	830	010	
		52	1760	474	470	498	848	011	
		38	1764	590	385	—	865	010	
		53	1760	982	448	447	872	018	
		39	1765	1069	635	—	880	016	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
780	617	657	790	843	off curve	
800	595	692	743	864	off curve	
813	344	369	423	464	7.24, 7.40	
801	453	451	565	564	7.75, 7.75	
801	530	533	661	663	8.15, 8.16	
808	594	579	735	717	off curve	
760	3	—	4	—		
796	27	—	34	—		
743	63	—	85	—		
792	100	—	126	—		
793	120	—	152	—		
804	194	—	242	—		
779	289	—	371	—		
809	336	—	416	—		
791	545	—	688	—		
795	3	—	4	—		
850	30	—	35	—		
820	70	—	85	—		
840	120	—	143	—		
842	142	—	169	—		
851	242	—	284	—		
814	316	—	386	—		
865	375	—	433	—		
855	620	—	726	—		
820	510	—	622	—	1235+	
837	459	487	548	582	7.59, 7.72	
855	375	—	438	—	62	
854	430	429	503	503	7.42, 7.42	
864	619	—	718	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

mkD RH1927 March 19, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk Volts
17.8	f	54	1790	807	570	580	890	020
	f	55	1784	943	620	650	891	020
	fp	40	1778	969	505	—	863	017
	f	56	1784	1059	612	657	890	018
	fp	41	1790	1219	470	—	900	015
	fp	42	1790	1254	220	—	910	020
	fp	43	1780	1344	600	—	912	020
18.0	fp	44	1809	250	175	—	860	017
	fp	45	1810	419	640	—	885	019
	fp	46	1810	434	397	—	850	020
	f	57	1810	547	522	542	870	019
	f	58	1797	825	640	680	880	020
	f	59	1810	1053	650	660	905	032
	f	60	1808	1070	450	460	878	025
	f	61	1800	1150	430	440	907	020
		15	1913	723	024	—	828	020
		1	2253	595	050	—	860	020
		2	—	—	090	—	849	020
		3	—	—	125	—	870	020
		4	—	—	162	—	865	020
		5	—	—	252	—	875	020
		6	—	—	327	—	813	020
		7	—	—	390	—	877	018
		8	—	—	630	—	878	020

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. NO.
870	550	560	632	643	7.95, 8.00	
871	600	630	688	723	8.19, 8.33	
856	485	—	567	—		338 ✓
872	594	639	681	734	8.15, 8.38	
885	455	—	513	—		420 +
890	200	—	225	—		426 +
892	580	—	652	—		
843	158	—	187	—		1214 +
867	621	—	716	—		1244 ✓
830	377	—	453	—		1251 ✓
851	503	523	592	615	7.78, 7.88	
860	620	660	722	768	8.33, off curve	
873	618	628	707	719	8.26, 8.31	
853	425	435	498	510	7.40, 7.45	
887	410	420	462	474	7.29, 7.33	
808	4	—	5	—		
840	30	—	36	—		
829	70	—	85	—		
850	105	—	124	—		
845	142	—	168	—		
855	232	—	271	—		
793	307	—	388	—		
859	372	—	433	—		
858	610	—	711	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

RGP – OH 1927 – March 19, 1930

Mag	Class	Star	Y	X	Dyl	Dyl	Cy	Dh	Pdt
		18	1913	723	770	—	767	—0	520
		1	2253	595	027	—	832	—0	
		2	—	—	062	—	760	0—	
		3	—	—	105	—	736	0—	
		4	—	—	142	—	822	0—	
		5	—	—	202	—	844	0—	
		6	—	—	307	—	807	0—	
		7	—	—	373	—	853	0—	
		8	—	—	588	—	832	0—	
18.2	p	47	1832	284	663	—	832	0	
	p	48	1830	379	714	—	857	002	
	p	49	1830	449	273	—	828	0—	
	p	50	1831	463	473	—	848	0—	
	p	51	1819	523	541	—	838	003	
	p	62	1833	563	669	702	847	003	
	p	52	1830	808	663	—	846	007	
	p	63	1830	910	454	480	848	011	
	p	53	1828	1038	590	—	861	011	
	p	54	1823	1040	678	—	869	010	
18.4	p	64	1848	329	690	697	838	007	
	p	55	1843	339	347	—	843	003	
	p	65	1847	372	568	619	837	007	
	p	66	1842	528	461	474	847	011	
	p	67	1840	961	692	678	887	007	
	p	68	1848	973	339	407	855	007	
	p	56	1845	980	232	—	853	003	
	p	57	1852	1117	64	—	874	012	
18.6	p	69	1867	719	695	706	84	010	
	p	70	1873	582	660	680	823	003	
	p	71	1870	728	572	639	818	005	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	L. No	Mag
767	0	—	0	—		
832	27	—	32	—		
760	62	—	82	—		
736	105	—	143	—		
822	142	—	173	—		
844	202	—	239	—		
807	307	—	381	—		
853	373	—	436	—		
832	588	—	709	—		
832	563	—	675	—	1201+	
855	712	—	832	—	1226+	
828	273	—	329	—	1242✓	
848	473	—	557	—	1246✓	
835	538	—	644	—		
844	666	699	788	829		off curve
839	656	—	782	—	238+	
837	443	469	530	560		7.65, 7.77
850	579	—	682	—		
859	668	—	777	—		
831	683	690	822	830		off curve
840	344	—	409	—	1208+	
830	561	612	675	737		8.21, off curve
836	450	463	538	552		7.68, 7.73
880	685	671	779	763		off curve
848	332	400	391	472		7.06, 7.44
850	229	—	269	—	376✓	
862	529	—	614	—	425✓	
841	695	706	828	839		off curve
820	657	677	800	825		off curve
813	567	628	698	772		8.29, off curve

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Dyf - R.H. 1927 - March 19, 1930

Sup	Class	Star	y	x	Dyf	Dyf	Cl	Dk	Plate
	f	72	1868	1173	697	721	857	002	
	f	73	1870	1237	593	612	849	0—	
18·8	p	58	1892	247	472	—	818	001	
	f	74	1887	267	457	453	807	0—	
	p	59	1890	289	565	—	837	0—	
	f	75	1886	537	516	628	833	000	
	f	76	1883	763	580	630	845	001	
	f	77	1880	867	243	264	842	002	
	f	78	1883	881	183	188	837	000	
	p	60	1888	1187	453	—	862	0	
	p	61	1880	1294	530	—	870	0	
19·0	f	79	1893	353	534	597	813	0—	
	p	62	1900	613	700	—	892	0	
	f	80	1910	811	552	597	823	0—	
	f	81	1910	1153	614	582	869	0—	
	p	63	1910	1370	718	—	852	0—	
19·2	p	64	1923	324	650	—	813	0—	
	f	82	1930	399	650	673	817	0	
	p	65	1924	401	472	—	823	0—	
	f	83	1928	432	650	676	822	0—	
	f	84	1928	453	674	686	819	0—	
	p	66	1920	501	558	—	803	0—	
	f	85	1930	676	617	612	843	0—	
	f	86	1917	677	383	419	818	0—	
	f	87	1923	738	350	406	830	0—	
	f	88	1918	862	189	201	812	001	
	p	67	1921	1227	627	—	883	004	
	p	68	1931	1247	723	—	878	007	
	p	69	1927	1273	202	—	863	001	
	p	70	1922	1324	624	—	860	007	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

A-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L No
855	695	719	813	841	off curve	
849	593	612	699	748	8.29, off curve	
817	471	—	563	—		1104+
807	457	453	568	562	7.79, 7.78	
837	565	—	677	—		1176+
833	516	628	619	752	7.99, off curve	
845	580	630	684	745	8.25, off curve	
840	241	262	288	311	6.59, 6.71	
837	183	188	218	224	6.26, 6.31	
862	453	—	526	—		451✓
870	530	—	608	—		457+
813	534	597	657	735	7.64, off curve	
832	700	—	842	—		
823	552	597	670	724	7.69, 8.36	
869	614	582	707	670	8.31, 8.19	
852	718	—	843	—		
813	650	—	800	—		1157+
817	650	673	797	824	off curve	
823	472	—	573	—		1166✓
822	650	676	790	822	off curve	
819	674	686	824	837	off curve	
803	558	—	696	—		1189✓
843	617	612	733	724	off curve, 8.36	
818	383	419	468	513	7.42, 7.60	
830	350	406	422	489	7.23, 7.49	
811	188	199	232	245	6.36, 6.41	
879	623	—	717	—		
871	716	—	822	—		478+
862	201	—	233	—		479+
853	617	—	724	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Typ-RH 1927 - March 19, 1930

Trip	Class	Star	y	x	Dyf	Dyf	Cl	Dk	Plate
	f	89	1930	1327	500	561	867	0 —	
		10	1913	723	007	—	782	0 —	
		1	2230	595	038	—	830	0 —	
		2	—	—	073	—	809	003	
		3	—	—	112	—	764	0 —	
		4	—	—	151	—	821	0 —	
		5	—	—	211	—	843	0 —	
		6	—	—	317	—	722	0 —	
		7	—	—	354	—	843	0 —	
		8	—	—	540	—	830	001	510
FMC		15	1913	700	-0	—	767	-0	
RH 1927		1	2251	572	030	—	820	-0	
Mar. 20, 1930		2	—	—	080	—	760	-0	
		3	—	—	108	—	790	-0	
		4	—	—	142	—	792	-0	
		5	—	—	230	—	809	-0	
		6	—	—	340	—	780	-0	
		7	—	—	389	—	829	-0	
		8	—	—	580	—	815	000	
19.4	f	90	1940	407	555	553	800	-0	
	f	91	1949	630	575	610	792	-0	
	f	92	1948	1281	392	390	840	-0	
19.6	f	71	1960	548	428	—	810	-0	
	f	93	1961	588	328	350	778	-0	
	f	94	1960	700	379	360	795	-0	
	f	95	1970	783	391	420	820	-0	
	f	96	1979	1170	190	170	812	-0	
	f	97	1968	1360	455	450	822	-0	
	f	72	1978	1370	370	—	835	-0	
19.8	f	98	1990	421	588	610	775	-0	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Sk.	Diff.-sk.	Diff.-sk.	Reduced	Reduced	Magn. & Ks.
867	500	561	578	644	7.87, 8.09
782	7	—	9	—	
830	38	—	46	—	
806	70	—	87	—	
764	112	—	147	—	
821	151	—	184	—	
843	211	—	250	—	
722	317	—	440	—	
843	354	—	422	—	
829	569	—	687	—	
767	−0	—	−0	—	
820	30	—	37	—	
760	80	—	106	—	
790	108	—	137	—	
792	142	—	180	—	
809	230	—	285	—	
780	340	—	437	—	
829	389	—	476	—	
815	581	—	712	—	
800	555	553	695	694	8.15, 8.05
792	575	610	727	772	8.15, offscale
840	392	390	467	465	7.32, 7.31
810	428	—	530	—	1171 ✓
778	328	350	423	450	7.15, 7.25
795	379	360	477	453	7.36, 7.26
820	391	420	474	513	7.36, 7.45
812	190	170	234	209	6.25, 6.08
822	455	450	554	548	7.56, 7.54
835	370	—	443	—	498 +
775	588	610	760	788	offscale

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

HMS – RH 1927 – March 20, 1928

Time	Class	Star	y	x	Diff	Diff	cl	Db
9.8	f	73	1990	449	585	—	770	−0
	f	99	1981	940	438	425	800	−0
	f	74	1991	1010	580	—	800	−0
	f	100	1980	1360	559	560	828	−0
20.0	f	101	2000	452	230	242	770	−0
	f	102	2000	488	452	411	798	010
	f	103	2010	590	120	111	808	018
	f	104	2012	830	567	605	800	005
20.2	f	105	2030	417	570	619	819	031
	f	75	2027	452	518	—	815	031
	f	106	2031	622	498	520	830	040
20.4	f	107	2050	221	480	512	817	042
	f	108	2042	387	612	649	827	047
	f	109	2050	587	610	619	860	047
	p	76	2051	664	694	—	838	043
	f	110	2040	429	600	618	853	050
	f	111	2036	778	669	684	847	050
	f	112	2055	804	567	610	853	051
	p	77	2048	1098	604	—	870	057
	f	113	2042	1157	552	508	748	054
	p	78	2053	1277	490	—	888	054
	p	79	2038	1318	722	—	902	058
	f	114	2053	1348	720	731	863	058
20.6	f	115	2060	219	648	707	839	059
	f	116	2073	303	706	766	828	059
	f	117	2072	327	541	648	847	062
	f	118	2063	333	691	727	843	061
	p	80	2057	352	672	—	862	061
	f	119	2058	373	578	573	853	060
	p	81	2059	685	612	—	853	059

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L.K.
770	585	—	760	—		
800	438	425	548	530	7.53, 7.50	
800	580		725	—		496+
828	569	560	675	675	7.96, 7.96	
770	230	242	298	314	6.61, 6.70	
788	442	401	560	508	7.57, 7.44	
790	102	93	129	118	5.42, 5.31	
795	562	600	706	755	8.07, 8.24	
788	539	588	684	746	8.00, 8.21	
784	487	—	621	—		1109✓
790	458	480	580	606	7.64, 7.73	
775	388	470	500	605	7.42, 7.73	
780	565	600	725	770	8.14, off curve	
813	563	632	693	776	8.00, off curve	
795	651	—	819	—		1016+
803	530	568	685	708	8.01, 8.08	
797	619	634	775	795	off curve	
802	516	559	645	696	7.85, 8.03	
813	547	—	675	—		
694	498	454	718	654	8.09, 7.88	
834	436	—	524	—		523+
844	664	—	786	—		519+
805	662	673	822	835	off curve	
780	589	648	755	830	off curve	
769	647	707	841	920	off curve	
785	479	586	610	746	7.72, 8.21	
782	630	666	806	854	off curve	
801	611	—	763	—		
793	518	513	655	647	7.89, 7.86	
794	453	—	570	—		2r+

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Kap-C H 1927- March 20, 1930

Sup	class	star	y	x	Dyc	Dyl	cl	Dh
		120	2076	687	607	627	862	059
		121	2059	820	703	730	865	057
		122	2073	882	632	657	849	057
		123	2070	893	530	554	853	053
		124	2060	971	530	553	863	051
	p	82	2070	1071	640	—	851	053
	p	83	2061	1147	770	—	850	053
20.8		125	2086	762	673	713	854	053
		126	2091	889	633	629	849	059
		127	2081	1028	498	530	862	053
	p	84	2090	1144	687	—	863	050
21.0	p	85	2100	242	664	—	835	057
		128	2108	618	400	430	840	053
		129	2108	757	709	702	853	061
		130	2110	783	677	688	847	058
		131	2100	816	668	701	857	061
		132	2103	857	623	729	845	061
	p	86	2111	884	279	—	837	058
		133	2100	918	643	657	838	052
		134	2108	1097	692	663	873	052
	p	87	2107	1220	642	—	841	051
	p	88	2100	1247	142	—	862	049
	p	89	2112	1370	489	—	880	051
21.2		135	2130	259	633	719	829	050
		136	2127	347	691	695	828	049
		137	2126	372	717	698	826	051
		138	2121	557	650	630	820	047
	p	90	2128	689	668	—	840	051
		139	2119	757	623	667	855	051
		140	2120	962	687	700	839	048

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk.	Defl-Dk.	Defl-Dk.	Reduced	Reduced	Magn.	L. No
803	548	568	685	709	8.00, 8.07	
808	646	673	800	830	off curve	
792	575	600	726	756	8.13, off curve	
800	477	501	596	625	7.70, 7.79	
812	479	502	590	616	7.67, 7.75	
798	587	—	735	—		
797	717	—	900	—		529+
801	620	660	774	824	off curve	
790	574	570	725	720	8.13, 8.10	
809	445	497	550	615	7.55, 7.75	
808	632	—	780	—		
778	607	—	780	—		
787	347	377	440	478	7.22, 7.35	
792	648	641	820	810	off curve	
794	624	635	785	800	off curve	
796	607	640	763	804	off curve	
784	562	668	716	854	8.10, off curve	
779	221	—	284	—		627 ✓
786	591	605	751	769	8.22, off curve	
821	620	611	755	745	off curve, 8.20	
790	591	—	748	—		541 ✓
813	93	—	115	—		536+
829	438	—	528	—		534+
773	583	669	755	865	off curve	
779	642	646	824	830	off curve	
775	666	647	860	835	off curve	
773	603	583	780	755	off curve	
789	617	—	783	—		977+
804	572	616	710	766	8.08, off curve	
791	639	652	807	824	off curve	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Dyf-CH 1929 — March 20, 1931

Sup	class	star	y	x	Dyf	Dyf	α	Dδ	
	p	91	2120	1122	640	—	858	047	
	p	141	2130	1270	171	173	847	041	
	p	142	2123	1361	616	655	871	043	
		10	1913	700	049	—	773	042	
		1	2251	572	081	—	800	040	
		2	—	—	120	—	827	040	
		3	—	—	148	—	809	039	
		4	—	—	193	—	823	043	
		5	—	—	253	—	839	043	
		6	—	—	347	—	817	047	
		7	—	—	433	—	843	046	
		8	—	—	597	—	824	044	500
		10	1913	709	0—	—	734	0—	500
# 5 P Mar 21, 1930		1	2251	582	030	—	782	001	
		2	—	—	078	—	768	003	
		3	—	—	119	—	752	003	
		4	—	—	147	—	769	003	
		5	—	—	210	—	783	003	
		6	—	—	300	—	763	001	
		7	—	—	334	—	792	002	
		8	—	—	562	—	782	007	
21.4	p	92	2150	317	416	—	763	012	
	p	93	2152	316	619	—	787	017	
	p	143	2150	456	281	260	782	013	
	p	94	2140	619	590	—	788	014	
	p	144	2139	763	597	621	793	013	
	p	95	2140	871	628	—	806	013	
	p	96	2152	949	659	—	787	017	
	p	97	2140	953	459	—	813	023	
	p	98	2140	1059	727	—	809	129	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

α.-Dk.	Deff.-Dk.	Deff-Dk.	Reduced	Reduced	Magn. h. Ks.
811	593	—	730	—	
806	130	132	161	163	5.72, 5.73
828	573	612	690	736	8.02, 8.16
721	7	—	9	—	
760	41	—	54	—	
787	80	—	102	—	
770	109	—	142	—	
780	150	—	192	—	
796	210	—	264	—	
770	300	—	390	—	
797	387	—	485	—	
783	553	—	706	—	
734	0	—	0	—	
781	29	—	37	—	
765	75	—	98	—	
749	116	—	155	—	
766	144	—	188	—	
780	207	—	265	—	
762	299	—	392	—	
790	332	—	420	—	
775	555	—	715	—	
751	404	—	536	—	1044 ✗
770	602	—	780	—	
769	268	247	348	322	6.93, 6.93
774	576	—	745	—	✗ 2035
780	584	608	746	780	off curve
793	615	—	775	—	✗ 673-3N
770	636	—	825	—	
790	430	—	544	—	601 ✓
780	698	—	895	—	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

2 Jp - RH 1927 - March 21, 1930

Mag	Class	Star	y	x	Dyl	Dyll	Cl	Clk	Volts
		145	2152	1082	682	711	804	019	
	p	99	2142	1094	390	—	823	022	
		146	2150	1100	663	680	813	023	
	p	100	2140	1107	569	—	803	021	
		147	2137	1272	573	603	818	022	
21.6	p	101	2163	266	390	—	781	024	
		148	2170	379	619	628	798	027	
	p	102	2162	399	643	—	799	028	
		149	2162	598	303	311	792	022	
		150	2163	829	550	550	807	031	
	p	103	2160	869	653	—	797	031	
21.8	p	104	2181	287	292	—	803	032	
		151	2180	723	691	687	809	037	
		152	2182	803	204	213	814	039	
	p	105	2193	834	690	—	813	040	
		153	2180	927	487	483	799	031	
	p	106	2189	982	247	—	834	034	
		154	2179	1006	623	643	811	033	
	p	107	2180	1079	407	—	830	032	
		155	2186	1098	590	604	820	031	
		156	2179	1343	604	611	820	026	
22.0		157	2203	388	567	570	786	037	
		158	2200	498	668	717	803	033	
		159	2200	600	450	472	814	032	
		160	2207	727	503	530	814	040	
		161	2206	738	555	584	799	032	
		162	2196	960	532	540	786	022	
	p	108	2200	1077	649	—	797	020	
	p	109	2211	1157	499	—	800	019	
	p	110	2203	1312	639	—	820	016	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
785	663	612	845	880	off curve	
801	368	—	460	—		570 ✓
790	640	657	810	832	off curve	
782	548	—	702	—		
796	551	581	691	729	8.27, 8.41	
757	366	—	484	—		1043+
761	592	596	778	785	off curve	
776	620	—	800	—		
770	281	289	365	375	7.00, 7.05	
776	519	519	667	667	8.19, 8.19	
766	622	—	810	—		684+
771	260	—	337	—		1030+
772	654	650	845	842	off curve	
781	171	180	218	230	6.20, 6.28	
773	650	—	840	—		722+
768	456	452	595	587	7.95, 7.93	
800	213	—	266	—		625 ✓
778	590	610	758	784	off curve	
798	375	—	470	—		587 ✓
784	559	573	709	725	8.34, 8.40	
794	578	585	728	736	8.42, 8.44	
749	530	536	708	715	8.33, 8.35	
767	630	684	820	890	off curve	
782	418	440	535	563	7.75, 7.84	
774	463	490	597	634	7.97, 8.06	
767	523	552	680	718	8.24, 8.37	
764	510	518	667	678	8.19, 8.23	
777	623	—	800	—		
781	474	—	605	—		588+
804	617		767	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Agp - R N 1927 - March 21, 1930.

Strip	Class	Star	Y	X	Dep1	Dep2	Cl	Dk	Plates
22.2		163	2227	127	583	591	787	013	
		111	2227	794	523	—	782	017	
		a 164	2227	961	613	591	795	011	
		b 164	2218	469	557	568	789	013	
		112	2220	1155	241	—	793	013	
		165	2222	1239	571	584	805	017	
		166	2221	1278	604	553	802	012	
22.4		167	2243	304	257	268	777	011	
		168	2248	610	164	167	780	010	
		169	2252	622	637	646	773	011	
		113	2250	639	549	—	777	008	
		170	2240	839	643	682	807	013	
		114	2234	913	613	—	797	017	
		171	2238	948	237	247	788	013	
		115	2251	1011	941	—	791	012	
22.6		172	2260	367	563	570	787	003	
		173	2260	554	537	548	759	008	
		174	2260	833	568	536	782	013	
		116	2267	974	513	—	777	009	
		117	2261	1054	621	—	788	013	
		118	2260	1086	637	—	797	012	
		175	2267	1098	628	629	757	013	
		14	1913	709	018	—	687	012	
		1	2251	582	047	—	769	013	
		2	—	—	079	—	777	021	
		3	—	—	113	—	777	017	
		4	—	—	140	—	770	012	
		5	—	—	202	—	777	013	
		6	—	—	313	—	757	012	
		7	—	—	343	—	778	013	
		8	—	—	553	—	773	012	495

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
774	570	578	736	746	8.44, off curve	✓
765	506	—	662	—		765
784	602	580	766	740	off curve, 8.45	
776	544	565	700	715	8.31, 8.35	
780	228	—	292	—		
788	554	567	700	719	8.31, 8.37	
790	592	541	748	685	off curve, 8.25	
766	246	257	321	335	6.77, 6.85	
770	154	157	200	204	6.10, 6.13	
762	626	635	824	834	off curve	
769	541	—	703	—		893 ✓
794	630	669	794	841	off curve	
780	586	—	750	—		
775	224	234	288	302	6.62, 6.67	
779	329	—	423	—		642 ✓
784	560	567	715	725	8.35, 8.40	
751	529	540	704	718	8.33, 8.37	
769	485	523	630	680	8.05, 8.24	
768	504	—	655	—		664+
775	608	—	785	—		
785	625	—	795	—		
744	610	616	820	830	off curve	
675	6	—	9	—		
746	34	—	46	—		
756	.58	—	77	—		
760	96	—	127	—		
758	128	—	169	—		
764	189	—	248	—		
745	301	—	404	—		
765	330	—	430	—		
761	541	—	710	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Zap - R H 1927 - March 22, 1930

Strip	Class	Star	Y	X	Defl	Defl	Cl	Dk	Volts
		14	1913	688	401	—	790	0—	520
		1	2251	558	037	—	827	002	
		2	—	—	068	—	813	003	
		3	—	—	119	—	799	007	
		4	—	—	157	—	806	002	
		5	—	—	211	—	817	003	
		6	—	—	310	—	783	0—	
		7	—	—	418	—	817	008	
		8	—	—	599	—	831	017	
22.8	f	176	2293	312	490	510	803	008	
	f	177	2291	847	421	453	832	021	
23.0	f	178	2300	510	497	493	838	021	
	f	179	2298	670	690	707	852	023	
	f	180	2300	938	733	730	869	027	
	f	181	2300	943	700	728	868	024	
	f	182	2297	1051	757	751	841	012	
	p	119	2297	1222	677	—	859	017	
23.2	f	183	2323	318	539	570	855	015	
	f	184	2321	337	502	523	843	019	
	p	120	2309	573	444	—	832	012	
	p	121	2322	663	653	—	890	010	
	p	122	2327	887	421	—	849	020	
	f	185	2320	890	632	668	857	017	
23.4	f	186	2334	408	710	693	818	021	
	f	187	2348	712	132	143	840	010	
	p	123	2337	812	512	—	828	017	
	p	124	2340	902	704	—	852	005	
	p	125	2342	943	532	—	852	017	
23.6	p	126	2370	413	415	—	843	019	
	f	188	2361	462	673	804	853	028	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. Ks.
790	1	—	1	—		
825	35	—	43	—		
810	65	—	80	—		
792	112	—	142	—		
804	155	—	193	—		
814	208	—	256	—		
783	310	—	396	—		
809	410	—	506	—		
814	582	—	715	—		
795	482	502	605	630	7.99, 8.06	
811	405	432	494	532	7.57, 7.73	
817	476	472	584	576	7.92, 7.87	
829	667	684	805	824	offcenne	
836	704	703	840	839	offcenne	
844	676	704	803	834	offcenne	
829	745	739	900	891	offcenne	
842	660	—	784	—		
840	524	555	624	660	8.04, 8.15	
824	483	504	585	610	7.92, 8.00	
820	432	—	526	—		907 ✓
820	643	—	784	—		
829	401	—	484	—		713 ✓
840	615	651	731	775	8.37, offcenne	
797	689	672	865	842	offcenne	
830	122	133	147	160	5.77, 5.88	
811	495	—	610	—		748 ✓
847	699	—	825	—		
835	575	—	615	—		688 ✓
824	396	—	480	—		926 +
825	645	776	780	940	offcenne	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

RGO - R.A. 1927 - March 22, 1930

Temp	Class	Star	y	x	Dyll	Dxll	Cl	Dk Volts
		189	2360	532	605	645	820	017
		127	2370	623	702	—	809	019
		190	2370	746	552	593	853	013
		191	2363	753	441	479	833	013
		192	2365	771	628	703	847	020
		128	2370	989	447	—	867	021
23.8		193	2382	443	633	730	826	020
		129	2390	449	583	—	827	016
		194	2379	448	683	723	829	020
		195	2387	599	422	433	850	019
		196	2381	663	707	733	853	029
		197	2392	283	541	549	843	022
		130	2382	793	517	—	870	030
		198	2380	852	205	220	837	027
		199	2381	957	701	783	837	020
		131	2397	1118	492	—	858	018
		200	2391	1129	272	280	863	007
		132	2380	1161	637	—	862	013
24.0		133	2393	402	628	—	807	010
		201	2409	479	669	707	818	002
		134	2410	492	650	—	829	004
		202	2408	690	508	570	830	017
		135	2410	707	900	—	831	017
		136	2399	812	683	—	842	017
		203	2406	1063	489	492	833	011
		204	2408	1137	718	747	844	010
24.2		137	2423	515	553	—	829	008
		138	2432	553	507	—	832	007
		205	2432	651	210	237	831	001
		206	2422	660	650	718	830	001

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

O.-Dk.	Defl-Dk	Defl.-Dk.	Reduced	Reduced	Magn. & No.
806	488	638	605	655	7.99, 8.14
790	683		863	—	
840	539	580	640	690	8.09, 8.25
820	428	466	524	570	7.70, 7.86
827	608	683	736	825	off curve
846	426	—	504	—	679 ✓
806	613	710	760	880	off curve
811	567	—	700	—	
809	663	703	819	869	off curve
831	403	414	484	496	7.54, 7.58
830	684	710	824	855	off curve
821	519	521	631	634	8.05, 8.06
840	487	—	580	—	
810	178	193	220	238	6.22, 6.30
817	681	769	834	933	off curve
840	474	—	564	—	647+
856	265	273	309	318	6.68, 6.74
849	624	—	735	—	632+
797	618	—	775	—	
816	667	705	817	865	off curve
825	646	—	784	—	
813	591	553	727	680	8.37, 8.23
814	283	—	348	—	805 ✓
825	666	—	806	—	
822	478	471	583	574	7.91, 7.87
834	708	737	850	885	off curve
815	545	—	670	—	892+
825	500	—	605	—	880+
830	209	236	252	284	6.38, 6.55
829	649	717	783	865	off curve

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Dyf-R H 1927- March 22, 1928

Trip	Class	Star	y	x	Dyf	Dyf	cl	Dk	Rate
	p	207	2431	679	503	482	821	007	
	p	208	2420	710	707	720	833	012	
	p	139	2420	792	582	—	841	014	
	p	140	2422	945	709	—	849	013	
	p	209	2428	1078	473	476	852	014	
	p	141	2429	1113	047	—	858	007	
24.4	p	142	2445	457	688	—	831	007	
	p	143	2453	732	478	—	827	003	
	p	210	2451	868	503	556	850	005	
	p	211	2440	922	650	640	840	002	
	p	212	2437	961	540	587	841	014	
	p	213	2438	978	718	727	840	008	
	p	144	2440	1029	480	—	843	011	
24.6	p	145	2471	633	590	—	827	007	
	p	214	2467	814	200	209	822	004	
24.8	p	146	2477	695	567	—	842	001	
	p	215	2491	887	063	062	837	008	
	p	216	2497	992	514	540	837	004	
	p	217	2480	1023	721	727	834	010	
	p	147	2493	1047	448	—	860	004	
25.2	p	148	2533	818	523	—	843	010	
25.4	p	218	2547	633	568	579	817	010	
	p	149	2540	758	471	—	833	010	
	p	219	2540	848	556	613	842	016	
25.6	p	220	2560	847	343	357	822	008	
		100	1913	688	019	—	775	012	
Plate finished		1	2251	558	048	—	806	011	
		2	—	—	091	—	759	008	
		3	—	—	137	—	794	017	
		4	—	—	157	—	823	013	
		5	—	—	239	—	831	004	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

α.-Sk.	Defl.-Sk.	Defl.-Sk.	Reduced	Reduced	Magn.	V. No.
814	496	476	610	585	8.00, 7.93	
821	695	708	845	862	off curve	
827	568	—	686	—		764+
836	696	—	832	—		707+
838	459	462	547	550	7.78, 7.80	
851	40	—	47	—		660+
824	681	—	826	—		
824	475	—	575	—		790✓
845	498	551	590	650	7.94, 8.13	
838	648	638	774	762	off curve	
827	526	573	636	693	8.07, 8.26	
832	710	719	854	864	off curve	
832	469	—	564	—		681+
820	583	—	710	—		840+
818	196	205	240	250	6.32, 6.38	
841	566	—	674	—		809+
829	55	54	66	65	4.85, 4.85	
833	510	536	612	645	8.00, 8.10	
824	710	717	863	870	off curve	
856	444	—	517	—		683+
833	513	—	615	—		758+
807	558	569	692	705	8.25, 8.30	
823	461	—	560	—		
826	540	597	654	723	8.14, 8.35	
814	335	349	413	428	7.20, 7.28	
763	7	—	9	—		
795	37	—	47	—		
751	83	—	111	—		
780	120	—	154	—		
810	144	—	178	—		
827	235	—	284	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

AGP- RH 1927 - March 22, 1930

Trip	class	Star	y	x	Dyc	Dyf	cc	ck	Plates
Plate finished		6	—	—	329	—	707	019	
		7	—	—	382	—	832	017	
		8	—	—	598	—	839	011	070

AGP- RH 1910 - April 1, 1930 - Con from RH 74

		10	1930	799	010	—	670	007	580
		1	1934	437	041	—	647	011	
		2	—	—	107	—	661	008	
		3	—	—	168	—	672	011	
		4	—	—	178	—	663	007	
		5	—	—	263	—	667	011	
		6	—	—	383	—	679	011	
		7	—	—	505	—	677	012	
		8	—	—	581	—	677	013	
22.6	ℓ	112	2268	289	555	562	653	013	
	ℓ	113	2268	338	513	498	653	016	
	p	67	2267	493	470	—	662	013	
	ℓ	114	2260	149	431	440	683	013	
	ℓ	115	2264	179	548	548	687	014	
	ℓ	116	2260	853	548	543	678	013	
22.8	ℓ	117	2271	253	562	543	643	012	
	ℓ	118	2290	297	523	539	663	020	
	ℓ	119	2288	299	451	431	667	021	
	p	68	2281	649	280	—	682	016	
	ℓ	120	2280	1269	559	570	712	013	
23.0	ℓ	121	2310	318	442	432	653	012	
	p	69	2297	573	531	—	659	013	
	ℓ	122	2300	738	293	297	673	014	
23.2	p	70	2327	499	543	—	672	017	
	p	71	2333	601	419	—	664	017	
	ℓ	123	2323	711	521	522	679	021	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
688	310	—	450	—		
815	365	—	447	—		
828	587	—	716	—		
663	3	—	4	—		
636	30	—	47	—		
653	99	—	152	—		
661	157	—	237	—		
656	171	—	260	—		
656	252	—	384	—		
668	372	—	555	—		
665	493	—	740	—		
664	568	—	855	—		
640	542	549	845	856	8.30, 8.33	
637	497	482	780	755	7.96, 7.84	
649	457	—	705	—		713
670	417	427	624	637	7.29, 7.34	
673	529	534	785	795	7.97, 8.02	
665	535	530	805	799	8.07, 8.03	
631	550	531	870	841	8.42, 8.27	
643	503	519	781	807	7.96, 8.07	
646	430	410	665	635	7.46, 7.33	
666	264	—	396	—		625
699	546	557	782	796	7.96, 8.02	
641	430	420	670	655	7.46, 7.43	
646	518	—	802	—		664
659	279	283	424	429	8.68, 8.69	
655	526	—	805	—		688
647	402	—	620	—		
658	500	501	760	761	7.86, 7.86	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Rgp - R.H. 1910 - April 1, 1925

Trig	Class	Star	y	x	Dyll	Dyll	Cl	Dk Tab
	p	72	2330	793	589	—	701	021
		124	2320	1250	579	589	719	023
		125	2330	1287	514	492	708	025
23.4		126	2351	472	481	487	673	021
		127	2341	597	307	323	673	020
		128	2352	616	533	517	677	021
	p	73	2348	827	590	—	673	022
	p	74	2350	1000	539	—	707	021
	p	75	2344	1103	472	—	698	017
23.6		129	2360	527	452	453	662	019
	p	76	2362	647	309	—	673	017
	p	77	2370	693	459	—	673	018
		130	2373	697	277	269	661	019
	p	78	2371	793	470	—	689	020
		131	2359	782	443	418	680	020
		132	2368	996	590	581	703	026
		133	2364	1234	571	573	707	022
23.8		134	2385	447	181	187	668	018
		135	2390	479	592	578	650	020
	p	79	2380	491	476	—	662	023
		136	2377	533	588	520	677	021
	p	80	2380	742	578	—	676	020
		137	2382	797	547	570	667	023
	p	81	2381	1052	620	—	700	017
	p	82	2378	1115	290	—	714	023
24.0	p	83	2407	807	612	—	690	024
		138	2402	1055	523	512	693	027
		139	2401	1187	592	602	707	022
24.2		140	2427	1123	405	370	690	022
		141	2417	1203	400	397	713	021

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO.
680	568	—	835	—		
696	556	566	800	814	8.05, 8.13	
683	489	467	716	685	7.67, 7.53	
652	460	466	705	715	7.63, 7.67	
653	287	313	440	480	6.65, 6.78	
656	512	496	778	755	7.94, 7.85	
651	568	—	874	—		
686	518	—	755	—		451 ✓
681	455	—	669	—		420+
643	433	434	674	675	7.50, 7.50	
656	292	—	445	—		606 ✓
655	441	—	674	—		587 ✓
642	258	250	403	390	6.53, 6.46	
669	450	—	673	—		570 ✓
660	423	398	640	603	7.35, 7.21	
677	564	555	830	820	8.21, 8.28	
685	549	551	800	804	8.05, 8.07	
650	163	169	251	260	5.86, 5.90	
630	572	558	906	886	off curve	
639	453	—	709	—		679 ✓
656	567	499	865	760	8.40, 7.86	
656	558	—	850	—		
644	524	547	814	850	8.13, 8.32	
683	603	—	883	—		442+
691	267	—	386	—		426+
666	588	—	882	—		
666	496	485	745	727	7.80, 7.70	
685	570	580	830	845	8.21, 8.28	
668	383	348	573	520	7.11, 6.92	
692	379	376	547	544	7.01, 7.00	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

2gp – C 4 1910 – April 1, 1930

Strip	Class	Star	y	x	Δyfl	Δyfl	cl	Δk Volts
24.4	p	84	2441	443	507	—	658	022
	p	85	2416	692	542	—	680	023
	p	86	2448	997	313	—	703	022
	f	142	2453	997	207	211	701	027
	f	143	2443	1012	181	160	699	020
	p	87	2449	1049	540	—	699	022
24.6	f	144	2461	547	303	296	668	021
	f	145	2440	607	219	208	658	020
24.8	f	146	2480	480	277	273	673	020
	f	147	2489	621	589	553	677	021
	f	148	2480	683	410	409	669	018
	p	88	2494	831	192	—	670	022
25.0	f	149	2500	428	147	148	663	020
	p	89	2509	518	493	—	666	023
	f	150	2503	613	497	481	663	027
25.2	p	90	2518	487	107	—	658	027
	f	151	2520	513	610	592	665	028
	f	152	2528	637	572	540	679	028
	f	153	2517	1058	498	487	696	023
25.4	f	154	2550	713	509	497	679	032
	f	155	2551	828	397	417	680	022
25.8	f	156	2587	649	561	553	663	031
	f	157	2577	694	540	570	687	033
	p	91	2577	996	483	—	683	036
26.0	f	158	2612	812	298	291	700	040
26.2	f	159	2628	887	439	420	717	040
		1	1930	799	038	—	647	036
		1	1934	437	072	—	660	034
		2	—	—	132	—	668	031
		3	—	—	182	—	687	032

Plate finished

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

cl-Dk	Defl-Dk	Diff-Dk	Red Defl	Red Defl	Mag	L. No
636	485	—	762	—		681+
657	519	—	789	—		
681	291	—	426	—		479+
674	180	184	267	273	5.93, 5.95	
679	161	140	237	206	5.80, 5.60	
677	518	—	765	—		457+
647	282	275	435	425	6.64, 6.61	
638	199	188	312	294	6.15, 6.05	
653	257	253	393	388	6.47, 6.44	
656	568	532	865	810	8.40, 8.11	
651	392	391	600	600	7.19, 7.19	
648	170	—	262	—		536+
643	127	128	197	199	5.93, 5.55	
643	470	—	730	—		647+
636	470	454	740	715	7.78, 7.67	
631	80	—	127	—		660+
637	582	564	912	885	off curve, off curve	
651	545	512	835	785	8.23, 7.98	
673	475	464	705	690	7.62, 7.55	
647	471	465	727	720	7.71, 7.68	
658	375	395	569	599	7.09, 7.19	
632	530	522	840	826	8.25, 8.18	
654	537	537	823	823	8.17, 8.17	
647	447	—	690	—		498+
660	258	251	390	380	6.46, 6.42	
677	399	380	588	561	7.16, 7.07	
611	2	—	3	—		
626	38	—	60	—		
637	101	—	158	—		
655	150	—	228	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

HJP- RH 1910 - April 1, 1930

Strip	Class	Star	y	z	Dzyl	Dyl	Cl	Dk	Volts
Plate Finished		4	+	—	208	—	688	032	
		5	—	—	291	—	679	030	
		6	—	—	420	—	677	032	
		7	—	—	447	—	683	030	
		8	—	—	597	—	700	032	490

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

C-Dk	Defl-Dk	Red Defl
656	176	268
649	261	403
645	388	600
653	417	640
668	565	845

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Algol - R.H. 1921 - May 2, 1930.

Time	Class	Star	Y	X	Diff	Diff	Cl	Dk	Ratio
		10	1940	831	183	—	467	181	490
		1	1950	468	217	—	463	188	
		2	—	—	248	—	479	187	
		3	—	—	279	—	479	185	
		4	—	—	281	—	462	186	
		5	—	—	321	—	471	191	
		6	—	—	354	—	469	187	
		7	—	—	369	—	473	188	
		8	—	—	421	—	468	191	
14.4	p	1	1454	790	418	—	481	191	
14.6	p	2	1463	745	316	—	484	200	
15.0	p	1	1515	812	361	380	492	208	
	p	2	1500	1024	319	332	482	197	
15.4	p	3	1550	1017	363	—	482	201	
15.6	p	4	1560	747	406	—	491	202	
15.8	p	3	1582	1153	328	337	478	202	
16.0	p	4	1600	732	402	413	469	197	
16.2	p	5	1637	813	387	—	472	200	
	p	5	1619	1200	403	421	481	197	
16.4	p	6	1650	719	367	—	487	190	
	p	7	1656	800	359	—	472	193	
	p	8	1650	1063	434	—	472	197	
16.6	p	9	1667	462	417	—	455	196	
	p	10	1670	804	409	—	479	202	
16.8	p	6	1689	360	407	418	484	201	
	p	11	1690	844	348	—	484	201	
	p	12	1688	950	270	—	478	202	
17.0	p	7	1711	528	403	452	479	198	
	p	8	1714	784	398	407	473	202	
17.2	p	9	1730	720	362	380	477	201	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. No.
286	2	—	7	—		
275	29	—	80	—		
292	61	—	209	—		
294	88	—	300	—		
276	95	—	344	—		
280	130	—	465	—		
282	167	—	593	—		
285	181	—	635	—		
277	230	—	830	—		
290	227	—	784	—		1235 X
284	116	—	408	—		1284 X
292	161	180	551	616	6.83, 7.03	
285	122	135	428	474	6.44, 6.63	
281	162	—	576	—		51 +
289	204	—	705	—		1208 X
276	126	135	456	489	6.57, 6.66	
272	205	216	755	795	7.67, 7.85	
272	187	—	687	—		1030 X
284	206	224	725	788	7.53, 7.83	
297	177	—	595	—		1030 X
279	160	—	574	—		1242 V
275	237	—	861	—		90 X
259	221	—	853	—		1044 X
277	207	—	747	—		1246 V
283	206	217	728	765	7.54, 7.71	
283	147	—	520	—		
276	68	—	246	—		68 X
281	205	254	730	904	7.54, 8.63	
271	196	205	724	755	7.52, 8.16	
276	161	179	584	648	6.93, 7.17	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

KGP-CH 1921 – May 2, 1920

trig	class	star	y	x	dx1	dx2	cl	ck	Zts
	p	13	1720	1068	412	—	467	201	
17.4	l	10	1746	566	291	298	478	198	
	p	14	1753	631	393	—	472	199	
17.6	l	11	1753	310	450	441	480	201	
	l	15	1761	917	381	—	473	204	
	p	16	1761	1092	413	—	471	207	
17.8	l	12	1780	767	359	380	491	211	
	l	13	1797	946	407	431	480	209	
	l	14	1780	951	320	337	488	207	
	p	14	1780	972	442	—	480	210	
	p	18	1797	1206	328	—	493	211	
	p	19	1800	1342	398	—	491	209	
18.0	l	15	1800	022	369	387	489	207	
	p	20	1812	729	407	—	488	217	
18.2	l	16	1822	1221	392	390	492	211	
	l	17	1828	1222	411	432	487	207	
18.4	l	18	1840	389	362	389	484	218	
	p	21	1842	1012	438	—	487	220	
18.6	p	22	1892	488	442	—	479	214	
	l	19	1882	662	413	428	487	221	
	l	20	1877	818	392	400	479	207	
	l	21	1881	853	387	404	477	207	
	l	22	1893	1149	367	391	483	212	
	p	23	1887	1340	260	—	490	210	
19.0	l	23	1910	513	317	323	473	211	
	l	24	1910	728	321	343	478	210	
	p	24	1907	1078	310	—	479	209	
	l	25	1900	1196	372	389	483	211	
	l	26	1898	1233	407	421	470	208	
19.2	l	27	1921	245	440	433	482	212	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
266	211	—	794	—		118 ✓
280	93	100	332	356	5.99, 6.11	5.99, 6.11
273	194	—	710	—		1109 ✓
279	249	240	893	860	8.52, 8.24	8.52, 8.24
269	177	—	657	—		62 ✓
264	206	—	786	—		
280	148	169	528	604	6.75, 7.00	6.75, 7.00
271	198	222	730	820	7.55, 8.02	7.53,
281	113	130	403	463	6.35, 6.60	
270	232	—	860	—		
282	117	—	415	—		183 x
282	189	—	670	—		206 x
272	152	170	560	625	6.85, 7.07	
271	190	—	700	—		
281	181	179	645	636	7.16, 7.11	
280	204	225	728	804	7.54, 7.93	
266	144	171	542	643	6.80, 7.14	
267	218	—	816	—		
265	228	—	860	—		148 ✓
266	192	207	722	779	7.52, 7.79	
272	185	193	680	710	7.33, 7.46	
270	180	197	667	730	7.27, 7.54	
271	155	179	573	660	6.92, 7.26	
280	50	—	178	—		239 x
262	106	112	405	427	6.25, 6.33	
268	111	133	415	496	6.28, 6.60	
270	101	—	374	—		205 ✓
272	161	178	593	655	6.99, 7.23	
262	199	212	760	810	7.65, 7.88	
270	228	221	845	820	8.03, 7.92	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Zgp–R.A. 1921 – May 2, 1930

Strip	Class	Star	η	δ	Dyll	Dyll	Cl	Dk	Tot
	p	25	1920	389	478	—	477	213	
	f	28	1918	468	423	448	477	211	
	ff	29	1937	1052	353	392	483	207	
	p	26	1927	1187	353	—	460	209	
		10	1940	831	212	—	480	210	
		1	1950	468	242	—	472	210	
		2	—	—	244	—	489	207	
		3	—	—	297	—	489	213	
		4	—	—	300	—	480	213	
		5	—	—	341	—	480	217	
		6	—	—	378	—	462	211	
		7	—	—	406	—	483	209	
		8	—	—	440	—	473	210	490
	Zgp–		R.A.	1921	– May 6,	1930			
		10	1940	788	133	—	461	133	510
		1	1950	420	170	—	449	140	
		2	—	—	208	—	463	139	
		3	—	—	229	—	468	138	
		4	—	—	232	—	452	137	
		5	—	—	245	—	456	139	
		6	—	—	323	—	439	139	
		7	—	—	332	—	467	142	
		8	—	—	403	—	458	143	
19.4	f	30	1937	1007	317	341	457	141	
19.6	p	24	1971	1202	379	—	463	146	
19.8	fff	28	1981	644	377	—	453	148	
20.0	f	31	2007	817	362	382	453	151	
	ff	29	2010	1072	394	—	471	151	
	f	32	1997	1290	428	440	478	149	
20.2	f	33	2037	847	363	392	468	153	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.:1274C

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
264	265	—	1000	—		907v
266	212	237	796	890	7.80, 8.29	
276	146	185	530	670	6.73, 7.29	
251	144	—	574	—		249x
270	2	—	7	—		
262	32	—	122	—		
282	67	—	238	—		
276	84	—	304	—		
267	87	—	326	—		
263	124	—	472	—		
251	167	—	665	—		
274	197	—	720	—		
263	230	—	875	—		
328	0	—	0	—		
309	30	—	97	—		
324	69	—	213	—		
330	91	—	276	—		
315	95	—	302	—		
317	136	—	428	—		
300	184	—	614	—		
325	190	—	585	—		
315	260	—	825	—		
316	176	200	556	633	7.61, 7.34	
317	233	—	735	—		
305	229	—	750	—		979x
302	211	231	699	765	7.63, 7.94	
320	243	—	760	—		274v
329	279	291	849	885	off curve, off curve	
315	210	219	665	695	7.48, 7.63	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Agp – R# 1921 – May 6, 1930

Trip	Class	Star	y	x	Diff	Diff	cc	Dk	Volts
	p	30	2021	1102	303	—	482	153	
20.4	f	34	2049	418	375	400	467	157	
	f	35	2050	581	250	254	462	157	
	f	36	2037	837	358	377	469	158	
	p	31	2047	1123	292	—	472	150	
	p	32	2057	1292	337	—	495	153	
20.6	p	33	2067	1163	377	—	471	152	
21.0	p	34	2100	628	328	354	461	150	36 c
	f	37	2110	1014	358	398	462	153	
21.2	p	35	2117	1006	392	—	478	158	
	f	38	2136	1313	300	310	479	159	
21.4	p	36	2148	932	350	—	453	154	
	p	37	2152	948	292	—	478	158	
21.6	f	39	2161	977	350	380	478	158	
21.8	f	40	2180	290	213	292	467	157	
	p	38	2185	302	390	—	468	158	
	p	39	2185	673	322	—	468	157	
	f	41	2191	963	350	363	483	158	
22.0	f	42	2198	607	340	369	471	162	
	p	40	2203	1056	420	—	483	161	
22.2	f	43	2230	252	390	417	475	161	
	f	44	2228	1143	177	177	478	159	
	f	45	2230	1190	315	336	490	164	
	f	46	2221	1212	317	338	487	160	
	f	47	2230	1238	402	401	477	161	
22.4	p	41	2251	671	417	—	467	160	
22.6	f	48	2260	591	319	334	471	161	
22.8	p	42	2280	482	378	—	457	161	1F
	p	43	2297	639	312	—	472	159	1F
	f	49	2284	1103	357	384	491	160	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk	Defl-Dk	Defl-Dk	Red.-Dk.	Red. Defl	Mag.	L. No.
329	150	—	455	—		
310	218	243	701	780	7.65, 8.00	
305	93	97	300	318	5.87, 5.94	
316	205	224	643	703	7.39, 7.65	
322	142	—	442	—		294 ✓
342	184	—	572	—		297 ✗
319	225	—	707	—		
311	178	204	571	661	7.07, 7.48	
309	205	245	662	763	7.47, 7.93	
320	234	—	731	—		
320	141	151	440	472	6.48, 6.63	
299	196	—	655	—		805 ✓
320	134	—	417	—		076 ✓
320	192	222	600	690	7.20, 7.58	
310	56	75	181	242	5.09, 5.55	
315	237	—	750	—		702 ✗
311	165	—	524	—		627 ✓
325	192	205	591	629	7.15, 7.32	
309	178	201	597	647	7.17, 7.39	
322	259	—	746	—		
314	232	256	734	720	7.19, 7.12	
319	18	18	57	57	3.40, 3.40	
326	151	172	463	563	6.60, 7.01	
327	157	178	480	543	6.66, 6.94	
316	241	240	761	760	7.93, 7.91	
307	257	—	836	—		601 ✓
310	158	173	505	559	6.77, 7.02	
296	212	—	714	—		763 ✗
313	143	—	453	—		625 ✓
331	197	224	597	678	7.17, 7.54	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

H.P. - R.H. 1921 — May 6, 1930

Trip	Class	Star	y	x	Diff	Dyff	Cl	Alt	Mets
23.0	p	44	2297	638	301	—	476	160	
		50	2310	1241	212	221	469	158	
23.2		51	2330	414	393	411	470	159	
		45	2320	562	402	—	471	159	
		52	2322	758	262	240	472	160	
23.4	p	46	2349	089	362	—	478	160	
		53	2340?	830	299	266	483	162	
		47	2352	1092	368	—	488	161	
		54	2352	1206	204	227	480	161	
23.6		55	2369	403	409	418	470	161	
	p	48	2377	637	322	—	472	160	
23.8	p	49	2391	482	379	—	472	161	
		56	2385	648	298	291	463	160	
	p	50	2380	683	363	—	462	160	
	p	51	2381	723	357	—	482	160	
		57	2390	1054	353	373	483	158	
		58	2379	1098	197	201	488	160	
	p	52	2385	1104	280	—	493	160	
		59	2393	1117	372	390	482	150	
24.0		60	2409	804	392	408	478	161	
24.2		61	2429	597	298	307	478	163	
		62	2420	1218	402	421	488	169	
24.4	p	53	2456	988	989	—	477	160	
24.6	p	54	2457	423	381	—	463	163	
	p	55	2468	681	411	—	477	163	
		63	2460	972	412	416	489	163	
	p	56	2456	988	299	—	482	167	
		64	2471	989	392	412	489	167	
	p	57	2457	1039	405	—	487	167	
	p	58	2463	1151	412	—	497	163	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
316	141	—	445	—		628 *
311	54	63	174	202	5.01, 5.30	
311	234	252	751	810	7.86, 8.11	
312	243	—	777	—		664x
312	102	110	322	352	5.97, 6.11	
318	203	—	637	—		642v
321	77	104	240	326	5.54, 5.98	
327	207	—	633	—		420x
319	143	166	447	520	6.52, 6.84	
309	248	247	801	801	8.08, 8.08	
312	162	—	520	—		606v
311	218	—	700	—		679v
303	138	131	455	432	6.56, 6.46	
302	203	—	670	—		587v
327	197	—	643	—		
325	195	215	600	662	7.19, 7.49	
328	37	41	112	125	4.30, 4.45	
333	120	—	360	—		426x
332	222	240	668	724	7.50, 7.74	
317	231	247	726	780	7.77, 8.00	
315	135	147	428	463	6.43, 6.60	
325	239	258	737	793	7.78, 8.04	
317	129	—	407	—		479x
300	218	—	727	—		
314	248	—	789	—		
326	249	253	766	777	7.93, 7.98	
315	132	—	417			451v
322	225	245	697	765	7.63, 7.92	
320	238	—	745	—		457x
334	249	—	748	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

ZgP - R# 1921 - May 6, 1920

Trip	Class	Star	y	x	Dsfl	Dsfl	cc	Dk	Notes
24.8	p	59	2491	390	388	—	476	163	
		65	2489	536	423	440	479	167	
25.0		66	2480	461	408	422	472	167	
		60	2503	823	234	—	497	168	
		67	2507	908	247	263	487	167	
		68	2510	917	420	430	493	168	
		61	2510	943	438	—	488	166	
25.2	p	62	2530	477	207	—	479	167	
	p	63	2523	879	369	—	483	166	
		69	2523	908	383	400	478	167	
25.6	p	64	2554	1082	357	—	477	164	
	p	65	2552	1089	417	—	497	164	
25.8	p	66	2583	987	373	—	494	164	
		10	1940	783	169	—	470	166	
		1	1950	420	201	—	461	164	
Plate Divided		2	—	—	227	—	472	168	
		3	—	—	252	—	480	168	
		4	—	—	281	—	468	168	
		5	—	—	303	—	469	170	
		6	—	—	343	—	453	171	
		7	—	—	358	—	450	170	
		8	—	—	421	—	471	170	490

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk	Defl Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
313	225	—	721	—		183 x
312	256	273	820	877	8.15, off curve	
305	241	255	789	835	8.02, off curve	
329	66	—	201	—		536 x
320	80	96	250	300	5.60, 5.86	
325	252	262	776	802	7.97, 8.08	
322	272	—	845	—		660 x
312	40	—	128	—		↓
317	203	—	640	—		523 x
311	216	233	695	750	7.62, 7.85	
313	193	—	613	—		464 x
333	243	—	726	—		
330	209	—	636	—		498 x
304	3	—	10	—		
297	37	—	124	—		
304	59	—	194	—		
312	84	—	268	—		
300	113	—	374	—		
299	133	—	447	—		
282	172	—	610	—		
280	188	—	671	—		
301	251	—	834	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Fmc RH 1914 May 8, 1930

mag	class	star	y	x	Diff	Diff	cl	Dh
		15	2032	779	190	—	809	181
	1	1	1820	482	210	—	855	182
	2	2	—	—	272	—	799	182
		3	—	—	303	—	780	181
		4	—	—	310	—	830	187
		5	—	—	391	—	808	190
		6	—	—	550	—	804	190
		7	—	—	652	—	827	190
		8	—	—	680	—	805	190
15.4	fp	1	1551	626	535	—	860	198
	fp	2	1539	650	602	—	805	193
15.6	fp	3	1570	582	667	—	858	199
	f	1	1562	725	631	633	840	200
15.8	f	2	1585	500	661	625	856	205
	fp	4	1590	650	559	—	852	203
	fp	5	1580	919	620	—	842	207
16.0	f	3	1601	509	300	298	880	209
	f	4	1610	818	562	531	851	210
	fp	6	1609	1000	362	—	820	211
16.2	fp	7	1630	910	670	—	832	219
	fp	8	1632	967	640	—	830	219
	fp	9	1629	1040	584	—	805	215
16.4	fp	10	1650	409	588	—	880	217
	f	5	1649	548	613	602	870	220
	f	6	1645	673	415	407	850	220
	f	7	1646	810	401	400	830	220
16.6	f	8	1670	719	670	660	870	220
	fp	11	1670	1020	340	—	830	220
16.8	fp	12	1680	940	539	—	820	210
17.0		15	2032	779	229	—	810	223
		1	1820	482	251	—	825	224

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274c

Cl.-Dk	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Mag.	L. No
628	09	—	14	—		
673	28	—	42	—		
617	90	—	146	—		
599	122	—	204	—		
643	123	—	191	—		
618	201	—	325	—		
614	360	—	585	—		
637	462	—	725	—		
615	490	—	796	—		
662	336	—	567	—		1030 x
662	409	—	618	—		1043 x
659	468	—	710	—		1044 x
640	431	433	673	675	7.72, 7.73	
657	456	426	700	645	7.83, 7.49	
649	356	—	548	—		
635	413	—	650	—		1104 x
671	91	89	135	133	5.40, 5.39	
641	352	321	548	500	7.23, 7.06	
609	151	—	248	—		1284 x
613	451	—	736	—		1176 x
611	421	—	689	—		1201 x
590	359	—	625	—		1235 x
663	371	—	560	—		
650	393	382	605	586	7.94, 7.37	
630	195	187	310	297	6.36, 6.30	
618	181	180	296	295	6.30, 6.30	
650	460	446	692	676	7.80, 7.73	
610	120	—	196	—		
610	329	—	539	—		1208 x
587	56	—	10	—		
601	27	—	45	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Jmc R+ 1914 May 8, 1930

Strip	class	star	y	y	Dyf	Dyf	cl	Dh
		2	—	—	289	—	790	228
		3	—	—	340	—	795	228
		4	—	—	362	—	841	228
		5	—	—	410	—	825	228
		6	—	—	545	—	835	230
		7	—	—	580	—	851	229
		8	—	—	702	—	830	230
Jmc R+1914 may 9, 1930		15	2032	784	170	—	747	161
		1	1820	490	191	—	781	161
		2	—	—	238	—	728	162
		3	—	—	281	—	710	162
		4	—	—	280	—	769	161
		5	—	—	380	—	755	161
		6	—	—	493	—	750	161
		7	—	—	548	—	759	161
		8	—	—	640	—	750	162
17.0	f	9	1710	590	621	630	780	165
	f	10	1709	1120	411	410	759	168
17.2	fp	13	1720	328	617	—	820	169
	f	11	1730	480	540	540	790	170
	f	12	1738	816	603	619	780	170
	fp	14	1720	855	572	—	780	170
17.4	f	13	1759	310	595	580	810	170
	fp	15	1750	441	591	—	805	170
	f	14	1748	455	273	257	805	170
	f	15	1753	615	465	465	779	170
	f	16	1751	980	380	360	745	170
17.6	fp	16	1770	319	633	—	829	170
	fi"	17	1765	740	538	—	785	170
17.8	f	17	1789	428	626	620	820	172

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Dk	Dafl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	L. No.
562	61	—	109	—		
567	112	—	197	—		
613	134	—	218	—		
597	182	—	304	—		
605	315	—	520	—		
622	351	—	565	—		
600	472	—	785	—		
586	09	—	15	—		
620	30	—	48	—		
566	76	—	134	—		
548	119	—	217	—		
608	119	—	195	—		
594	219	—	368	—		
589	332	—	564	—		
598	387	—	646	—		
588	478	—	812	—		
615	456	465	740	755	7.81, 7.88	
591	243	242	411	410	6.62, 6.61	
651	448	—	690	—		392 x
620	370	370	596	596	7.27, 7.27	
610	433	449	710	735	7.78, 7.78	
610	402	—	656	—		1166 ✓
640	425	410	664	640	7.53, 7.43	
635	421	—	663	—		907 ✓
635	103	87	162	137	5.57, 5.39	
609	295	295	485	485	6.87, 6.87	
595	210	190	365	330	6.43, 6.32	
659	463	—	701	—		880 x
615	368	—	597	—		1109 ✓
648	454	448	698	692	7.64, 7.61	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

FMC RH 1914 May 9, 1930

trip	class	star	y	x	Diff	Dg	cl	sh
17.8	p	18	1789	530	619	—	790	172
	f	18	1779	710	480	480	770	173
	f	19	1780	720	630	610	780	171
	f	20	1799	827	371	348	769	171
	p	19	1791	938	460	—	758	172
	p	20	1781	958	461	—	750	172
	p	21	1792	1140	550	—	745	172
	f	21	1802	593	520	505	788	175
	p	22	1807	930	599	—	758	175
18.2	f	22	1820	761	480	452	765	178
	f	23	1832	960	579	573	752	175
18.4	p	23	1859	160	590	—	803	178
	p	24	1847	950	430	—	755	175
	f	24	1841	1041	333	321	740	173
	p	25	1840	1170	438	—	705	174
18.6	f	25	1862	420	630	628	800	175
	p	26	1871	780	592	—	770	175
	p	27	1869	928	595	—	750	172
		1S	2032	784	182	—	742	173
		1	1820	490	200	—	792	176
		2	—	—	250	—	712	176
		3	—	—	283	—	710	174
		4	—	—	288	—	769	174
		5	—	—	360	—	750	175
		6	—	—	475	—	753	175
		7	—	—	563	—	762	174
		8	—	—	650	—	750	173

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	h. Ko.
618	447	—	724	—		948 v
597	307	307	513	513	6.99, 6.99	
609	459	459	755	721	7.87, 7.73	
598	200	177	334	296	6.35, 6.20	
586	288	—	490	—		1242 v
578	289	—	498	—		1251 v
573	378	—	660	—		23 x
613	345	330	563	538	7.14, 7.06	
583	424	—	726	—		1246 v
588	302	274	513	465	6.99, 6.80	
577	404	398	700	690	7.65, 7.62	
625	352	—	564	—		
580	255	—	440	—		1279 v
567	160	148	282	260	6.15, 6.06	
531	264	—	496	—		51 x
625	455	453	727	725	7.75, 7.74	
595	417	—	701	—		1171 v
578	423	—	730	—		
569	09	—	16	—		
616	24	—	39	—		
536	74	—	138	—		
536	109	—	203	—		
595	114	—	192	—		
575	185	—	322	—		
578	300	—	518	—		
588	389	—	660	—		
577	477	—	826	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

XJP – R # 1914 – May 9, 1930.

Trip	Class	Star	y	x	Dyf	Dyf	cc	Dk	Volt
		10	2032	784	183	—	732	187	490
		1	1820	490	202	—	771	175	
		2	—	—	237	—	757	173	
		3	—	—	280	—	757	173	
		4	—	—	291	—	762	174	
		5	—	—	362	—	748	176	
		6	—	—	467	—	747	177	
		7	—	—	493	—	763	177	
		8	—	—	644	—	753	173	
18.8	p	28	1891	241	682	—	816	178	
	p	26	1886	1025	498	501	742	177	
	p	27	1892	1071	588	480	737	178	
	p	28	1880	1117	590	584	730	177	
	p	29	1889	1269	387	401	718	177	
19.0	p	30	1910	342	388	382	797	175	
	p	29	1903	397	687	—	772	174	
	p	31	1900	597	292	283	768	172	
	p	32	1910	728	549	582	763	173	
	p	30	1909	1039	271	—	748	174	
	p	33	1903	1249	319	298	707	173	
19.2	p	31	1937	162	637	—	791	173	
	p	32	1933	958	580	—	801	173	
	p	33	1921	301	436	—	801	174	
	p	34	1916	371	491	490	782	174	
	p	35	1937	668	669	602	753	177	
	p	36	1931	696	660	692	767	178	
	p	37	1930	693	657	657	753	178	
19.4	p	34	1937	163	574		793	173	
	p	38	1942	253	560	552	793	176	
	p	35	1945	511	681	—	757	178	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12741

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
545	-4	—	—	—		
602	27	—	45	—		
584	64	—	110	—		
584	107	—	183	—		
588	117	—	199	—		
572	186	—	325	—		
570	290	—	508	—		
586	316	—	538	—		
580	471	—	811	—		
638	504	—	786	—		837 x
565	321	324	567	574	7.33, 7.36	
559	410	302	733	540	7.97, 7.23	
553	413	407	745	737	8.01, 7.98	
531	216	224	395	422	6.68, 6.80	
622	213	207	342	333	6.51, 6.08	
598	573		855	—		
596	120	111	201	186	5.92, 5.81	
590	376	409	636	694	7.61, 7.84	
569	97	—	171	—		56 v
534	146	120	274	225	6.24, 6.03	
618	464	—	748	—		
628	407	—	648	—		790 v
627	262	—	417	—		805 v
608	317	316	520	520	7.15, 7.15	
576	492	446	852	826	8.42, 8.33	
589	422	414	715	702	7.91, 7.87	
575	479	479	833	833	8.36, 8.36	
620	424	—	684	—		
617	384	376	621	608	7.55, 7.50	
579	503	—	867	—		2035 x

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

XYP - RH 14,14 - May 9, 1930

Strip	Class	Star	y	x	Dyel	Dyel	cc	Dk Dots
		39	1951	689	377	393	760	171
		36	1947	962	502	[illegible]	727	172
19.6		40	1969	967	471	514	737	173
19.8		41	1980	209	703	678	790	178
		34	1980	651	571	—	758	180
20.0		42	2002	212	661	693	802	181
		38	2012	206	699	—	782	180
		39	2010	447	678	—	770	179
		43	2008	967	583	590	722	178
		40	2007	1108	557	—	727	178
		41	2009	1299	591	—	707	178
20.2		44	2016	128	630	660	797	178
		45	2026	744	491	584	732	177
		46	2027	761	647	664	733	179
		47	2030	1184	440	450	709	177
		48	2033	1300	597	587	703	177
20.4		42	2042	347	662	—	763	175
		49	2053	907	656	609	717	177
		50	2047	954	261	277	717	162
		43	2039	1287	560	—	693	172
		51	2045	1299	598	620	693	172
20.6		52	2070	128	680	701	782	170
		44	2070	989	575	—	707	170
		53	2071	1091	573	588	691	170
20.8		54	2097	170	453	470	783	170
		55	2087	973	616	612	750	168
		56	2077	399	402	404	740	169
		57	2090	525	346	346	737	168
		58	2091	653	568	543	727	167
21.0		59	2100	146	679	683	776	171

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl.-Dk	Defl.-Dk.	Defl.-Cl.	Reduced	Reduced	Magn.	L. No.
589	206	222	350	376	6.02, 6.63	
555	330	—	595	—		62 ✓
564	298	341	528	605	7.19, 7.50	
612	525	500	860	812	8.48, 8.27	
578	391	—	675	—		979 x
621	480	512	774	823	8.13, 8.32	
602	519	—	863	—		
591	499	—	845	—		778 x
544	405	412	745	755	8.02, 8.05	
549	379	—	690	—		118 ✓
529	413		780	—		
619	462	482	728	776	7.95, 8.14	
555	314	407	566	735	7.35, 7.99	
554	468	485	846	875	8.40, 8.51	
532	263	273	495	514	7.06, 7.14	
526	420	410	798	780	8.22, 8.15	
588	487	—	827	—		763 x
530	479	432	904	814	off curve, 8.28	
555	99	115	178	207	5.77, 5.93	
521	388	—	745	—		135 ✓
521	426	448	820	860	8.36, 8.46	
612	510	531	835	869	8.36, 8.49	
537	405	—	755	—		
521	403	418	773	805	8.12, 8.26	
613	283	300	463	490	6.95, 7.04	
582	448	444	770	763	8.11, 8.08	
571	233	235	407	412	6.73, 6.75	
569	178	178	312	312	6.38, 6.38	
560	401	376	715	672	7.91, 7.74	
606	502	512	828	845	8.33, 8.40	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Eyp-R #19 14- May 9, 1920

Strip	Class	Star	y	x	Dyff	Dyff	cc	Dk	Watts
		60	2093	1157	577	588	682	169	
		61	2112	1162	500	533	683	169	
21.2		62	2117	280	680	663	753	170	
		45	2118	338	547	—	740	169	
		63	2120	350	631	598	737	170	
		64	2120	542	615	621	722	170	
		65	2120	1183	543	559	669	170	
21.4		46	2148	423	650	—	735	171	
		66	2140	1042	593	584	678	172	
		47	2150	1173	347	—	660	170	
21.6		67	2160	162	631	636	743	171	
		68	2160	230	529	509	737	171	
		48	2160	549	402	—	709	170	
		69	2168	609	623	591	709	171	
		49	2160	1003	341	—	667	171	
		70	2170	1158	572	578	649	172	
21.8		71	2180	232	692	590	738	172	
		72	2178	287	666	630	727	172	
		73	2180	518	490	520	693	172	
		74	2180	867	542	532	653	172	
		1	2032	784	180	—	631	174	480
		1	1820	490	193	—	667	175	
		2	—	—	227	—	659	175	
		3	—	—	240	—	640	177	
		4	—	—	262	—	661	173	
		5	—	—	320	—	699	173	
		6	—	—	417	—	628	173	
		7	—	—	428	—	640	173	
		8	—	—	557	—	629	172	420

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

α.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No
513	408	419	797	817	8.21, 8.29	
514	331	364	645	708	7.65, 7.88	
583	510	493	875	845	8.52, 8.40	
571	378	—	663	—		713 v
567	461	498	811	755	8.27, 8.05	
562	445	451	805	816	8.25, 8.28	
499	373	389	746	779	8.03, 8.14	
564	479	—	850			
506	421	412	830	812	8.34, 8.29	
490	177	—	360	—		183 x
572	460	465	805	814	8.25, 8.28	
566	352	338	620	596	7.54, 7.46	
539	232	—	430	—		627 v
538	452	420	837	780	8.36, 8.16	
496	170	—	342	—		205 v
477	400	406	836	850	8.35, 842	
561	460	418	820	746	8.30, 8.02	
555	494	458	890	826	flat curve, 833	
521	318	348	610	667	7.51, 7.73	
481	370	360	770	750	8.11, 8.05	
457	06	—	13	—		
492	18	—	26	—		
484	52	—	108	—		
463	93	—	201	—		
488	89	—	182	—		
460	147	—	320	—		
450	244	—	530	—		
467	255	—	545	—		
457	385	—	840	—		
—	—	—	—	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Fmc-RH 1914— May 12, 1930

Strip	Class	Star	Y	D6	Dep1	Dep2	α	dt	Falls
		10	2032	790	141	—	841	139	
		1	1820	496	169	—	889	140	
		2	—	—	220	—	828	140	
		3	—	—	262	—	810	149	
		4	—	—	270	—	860	149	
		5	—	—	361	—	849	149	
		6	—	—	540	—	841	150	
		7	—	—	530	—	842	150	
		8	—	—	723	—	848	150	
22.0	p	50	2205	277	651	—	895	150	
	p	51	2210	511	672	—	869	150	
	f	75	2200	742	601	585	849	150	
	f	76	2201	804	713	721	825	150	
	f	77	2218	973	693	690	829	150	
	f	78	2208	1040	473	461	820	150	
	f	79	2217	1185	701	688	790	151	
22.2	p	52	2230	141	691	—	900	150	
	p	53	2228	200	703	—	900	150	
	p	54	2238	390	587	—	870	151	
	p	55	2225	460	459	—	853	150	
	p	56	2231	1287	583	—	789	150	
		15	2032	790	161	—	820	150	
		1	1820	496	180	—	861	151	
		2	—		230	—	810	151	
		3	—	—	275	—	800	150	
		4	—	—	280	—	860	150	
		5	—	—	980	—	840	151	
		6	—	—	590	—	830	150	
		7	—	—	583	—	848	151	
		8	—	—	692	—	840	150	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No
702	02	—	3	—		
749	29	—	39	—		
688	80	—	116	—		
661	113	—	171	—		
711	121	—	170	—		
700	212	—	302	—		
691	390	—	564	—		
692	380	—	550	—		
698	573	—	820	—		
746	501	—	672	—		679 ✓
719	522	—	725	—		601 ✓
699	451	435	645	623	7.51, 7.42	
675	563	571	834	845	off curve	
679	543	540	799	795	8.30, 8.27	
670	323	311	482	464	6.89, 6.82	
639	550	537	860	840	off curve, off curve	
750	541		721	—		683 ×
750	553		735	—		681 ×
719	436		606	—		642 ✓
703	309		440	—		625 ✓
639	433		675	—		206 ×
670	11		16	—		
710	29		41	—		
659	79		120	—		
650	125		192	—		
710	130		183	—		
689	229		332	—		
680	370		544	—		
697	432		617	—		
690	542	—	785	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Kapteyn RA 1914 — May 12, 1930

Strip	Class	Star	Y	X	Diff	Diff	Cl	Dk	Plate
		10	2032	790	157	—	818	150	520
		1	1820	496	178	—	877	150	
		2	—	—	230	—	859	151	
		3	—	—	291	—	801	151	
		4	—	—	273	—	879	150	
		5	—	—	363	—	801	148	
		6	—	—	520	—	832	149	
		7	—	—	549	—	843	142	
		8	—	—	689	—	828	140	
22.4		80	2250	219	769	750	883	141	
		81	2237	250	772	747	880	144	
	Done in strip	22.2	2237	390	578	—	861	142	
		82	2239	530	777	758	842	144	
		83	2240	796	627	632	816	147	
		57	2240	1082	456	—	792	142	
		84	2243	1101	693	697	797	141	
22.6		85	2260	141	539	532	870	141	
		86	2268	518	760	739	862	146	
		58	2263	979	627	—	803	147	
22.8		59	2289	409	447	—	861	141	
		87	2290	582	747	717	839	141	
		88	2280	622	744	733	850	140	
		89	2297	652	470	458	840	138	
		90	2291	856	582	617	808	141	
		91	2287	893	650	632	797	139	
		92	2290	919	667	661	820	140	
		60	2293	995	420	—	810	143	
23.0		61	2310	188	199	—	887	143	
		93	2308	437	430	409	862	147	
		94	2310	581	744	748	859	146	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-Pl.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
668	07	—	10	—		
727	28	—	38	—		
708	79	—	112	—		
650	140	—	215	—		
729	129	—	169	—		
653	215	—	330	—		
689	377	—	547	—		
701	407	—	580	—		
688	579	—	797	—		
742	628	609	848	820	8.59, 8.37	
739	631	606	855	820	8.64, 8.37	
701	636	617	906	880	ff curve, ff curve	
669	480	485	720	725	7.82, 7.86	
650	314	—	484	—		2510 V
656	552	556	840	846	8.51, 8.54	
729	398	391	545	535	7.15, 7.12	
716	614	593	855	825	8.64, 8.42	
656	480	—	730	—		
720	306	—	425	—		
698	606	576	868	825	8.76, 8.41	
710	604	593	850	835	8.60, 8.49	
702	332	320	474	456	6.90, 6.81	
667	441	476	660	714	7.59, 7.81	
668	511	493	765	736	8.05, 8.41	
680	527	531	775	765	8.60, 8.05	
667	277	—	415	—		273 X
744	56	—	75	—		659 X
715	583	562	815	785	8.35, 8.17	
713	598	602	840	845	8.51, 8.55	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Kap-CH 1914- May 12, 1930

Strip	Class	Star	y	x	Diff	Diff	Cl	Ok	Volts
	p	62	2310	639	803	—	833	149	
	p	63	2301	792	738	—	828	147	
	p	64	2310	861	638	—	809	143	
	p	65	2314	1107	600	—	779	142	
	p	66	2312	1230	241	—	773	141	
23.2	p	95	2321	214	268	269	879	142	
	p	67	2323	219	677	—	866	142	
	p	68	2320	443	620	—	854	147	
	p	69	2327	999	401	—	803	143	
	p	96	2330	1188	634	651	769	143	
	p	70	2330	1191	687	—	767	142	
	p	97	2320	1258	512	498	787	142	
	p	71	2328	1267	341	—	782	143	
23.4	p	72	2348	473	587	—	857	150	
	p	73	2350	548	753	—	857	149	
	p	98	2351	970	700	700	809	150	
	p	99	2341	1153	689	673	781	150	
23.6	p	74	2360	475	754	—	859	149	
	p	100	2360	721	739	721	827	148	
	p	75	2362	795	694	—	818	143	
	p	101	2358	1178	612	627	789	148	
23.8	p	76	2369	891	726	—	863	151	
	p	77	2390	488	729	—	860	153	
	p	102	2397	969	360	348	822	152	
	p	103	2393	983	640	622	824	151	
	p	78	2380	990	700	—	823	151	
	p	104	2380	996	690	689	817	151	
	p	79	2380	1104	598	—	797	150	
	p	80	2390	1232	680	—	797	150	
24.0	p	81	2401	1237	603	—	777	152	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl-Dk.	Defl-Dk	Defl-Dk	Reduced	Reduced	Mags	L. Ks.
684	454	—	955	—		496 x
681	291	—	427	—		376 v
666	495	—	743	—		
637	458	—	720	—		
632	100	—	158	—		
737	126	127	171	172	5.61, 5.61	
724	535	—	740	—		647 x
707	473	—	667	—		587 v
660	258	—	390	—		294 v
626	491	508	784	810	8.15, 8.32	
625	545	—	870	—		
645	370	356	574	552	7.27, 7.19	
639	198	—	310	—		
707	437	—	617	—		570 v
708	604	—	850	—		
659	550	550	835	835	8.49, 8.49	
631	539	523	855	827	8.64, 8.43	
710	605	—	853	—		
679	591	573	870	843	8.78, 8.54	
675	551	—	815	—		
641	464	479	724	747	7.85, 8.48	
712	595	—	810	—		
707	570	—	805	—		
670	208	196	310	292	6.30, 6.23	
673	489	471	727	701	7.85, 7.75	
652	549	—	844	—		
666	539	538	809	808	8.31, 8.29	
647	448	—	693	—		
647	530	—	820	—		
625	451		721	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

KJP — CH 1914 — May 12, 1930

Strip	Class	Star	y	x	Dep x	Dep y	a	Hk	Plts
24.2		105	2425	242	789	763	882	150	
		106	2420	509	743	707	851	150	
		107	2420	623	703	683	843	151	
		108	2423	719	723	728	850	150	
	p	82	2431	750	696	—	823	150	
	p	83	2437	1127	510	—	790	150	
24.4		109	2403	518	610	579	857	150	
24.6		110	2469	372	662	640	868	150	
		111	2470	579	340	328	823	150	
		112	2460	662	716	710	837	150	
		113	2461	888	712	700	808	150	
24.8	p	84	2483	477	703	—	852	150	
		114	2491	612	590	587	853	152	
	p	85	2490	701	698	—	847	150	
	p	86	2485	923	730	—	830	152	
		115	2482	970	540	504	816	152	
25.0		116	2503	473	510	480	877	152	
	p	87	2502	480	277	—	867	151	
		117	2503	883	387	387	820	152	
		118	2511	1043	662	683	792	153	
25.2		119	2530	293	658	659	879	153	
		120	2532	510	687	705	850	153	
		121	2533	1121	437	432	800	153	
25.4	p	88	2551	512	669	—	847	153	
		122	2538	521	360	368	849	153	
25.6		123	2573	619	587	577	843	153	
	p	89	2563	640	420	—	853	153	
25.8	p	90	2580	778	390	—	827	151	
		124	2578	1028	673	660	882	150	
26.0	p	91	2597	681	669	—	848	152	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl—Dk.	Defl.—Dk.	Defl.—Dk.	Reduced	Reduced	Magn.	L. No.
732	634	613	873	835	∂ curve, 848	
701	593	557	845	795	8.56, 8.22	
692	552	532	797	770	8.23, 8.07	
700	573	548	817	825	6.34, 8.42	
673	546	—	811	—		425 x
640	360	—	562	—		
707	460	429	650	606	7.55, 7.36	
718	512	490	712	683	7.80, 7.69	
673	190	178	282	265	6.19, 6.11	
687	566	560	825	815	8.41, 8.35	
653	562	550	860	845	868, 8.56	
702	553	—	784	—		547 x
701	438	435	625	620	7.46, 7.44	
695	486	—	700	—		
678	578	—	852	—		
664	388	352	585	530	7.30, 7.09	
725	358	328	494	452	6.97, 6.82	
716	126	—	176	—		
668	235	235	352	352	6.46, 6.46	
639	509	530	795	830	8.22, 8.46	
726	505	506	695	696	7.73, 7.74	
697	534	552	765	790	8.04, 8.18	
647	284	279	438	431	6.74, 6.72	
694	516	—	745	—		
696	207	215	297	308	6.23, 6.29	
690	434	424	628	615	7.47, 7.42	
700	267	—	382	—		
676	239	—	353	—		426 x
652	523	510	800	784	8.25, 8.15	
696	517	—	743	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Zgp-CX 1914-May 12, 1930

Strip	Class	Star	Y	X	Defl	Defl	Cl	Dk	Plates
		125	2608	878	504	+92	820	152	
26.4		126	2650	+93	440	+23	862	151	
		127	2640	840	553	541	841	153	
		128	2651	861	472	471	833	153	
26.6		92	2664	561	593	—	869	152	
		129	2676	640	342	332	852	152	
		10	2632	790	161	—	807	153	
		1	1820	496	180	—	863	153	
		2	—	—	248	—	821	151	
		3	—	—	268	—	839	151	
		4	—	—	276	—	860	151	
		5	—	—	360	—	775	152	
		6	—	—	499	—	820	153	
		7	—	—	536	—	847	155	
		8	—	—	700	—	827	158	510

Plate finished

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Cl.-DR	Diff-Dk.	Diff-Dk.	Reduced	Reduced	Magn.	L. Ks.
668	352	346	526	508	7.08, 7.02	
711	289	272	406	382	6.64, 6.56	
688	400	388	580	564	7.27, 7.23	
680	319	318	469	467	6.87, 6.86	
717	441	—	615	—		498
700	190	180	272	257		
654	8	—	12	—		
709	27	—	38	—		
670	97	—	145	—		
688	117	—	170	—		
709	125	—	176	—		
623	208	—	334	—		
667	346	—	518	—		
692	381	—	550	—		
669	542	—	810	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

7mc RH 1915 May 14, 1930

Trip	class	Star	y	x	Diff	Diff	α	Δh	Wall
		18	2035	748	139	—	741	132	
		1	1830	446	150	—	859	135	
		2	—	—	180	—	838	135	
		3	—	—	212	—	800	138	
		4	—	—	210	—	841	138	
		5	—	—	270	—	837	138	
		6	—	—	450	—	870	140	
		7	—	—	460	—	820	140	
		8	—	—	612	—	848	140	
15.0	fp	1	1517	740	572	—	840	141	
15.2	fp	2	1530	799	611	—	850	142	
15.4	fp	3	1541	601	471	—	870	142	
	fp	4	1544	670	620	—	841	145	
15.6	fp	5	1560	580	340	—	850	144	
	f	1	1561	700	515	510	850	145	
	fp	6	1578	872	450	—	845	145	
15.8	f	2	1580	477	560	551	860	147	
	f	3	1598	481	222	230	859	145	
	fp	7	1580	540	599	—	855	147	
	fp	8	1599	607	460	—	854	146	
16.0	f	4	1610	790	462	462	832	149	
	fp	9	1601	953	252	—	830	149	
16.2	fp	10	1629	863	531	—	823	150	
	fp	11	1630	921	550	—	825	150	
	fp	12	1620	998	480	—	831	150	
16.4	f	5	1641	520	550	515	860	150	
	f	6	1640	649	310	301	835	150	
	f	7	1648	785	298	300	828	150	
16.6	fp	13	1660	362	519	—	873	150	
	f	8	1670	690	550	531	850	150	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

α.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
609	7	—	11	—		
718	15	—	21	—		
703	45	—	64	—		
662	74	—	112	—		
703	72	—	103	—		
699	132	—	189	—		
730	310	—	425	—		
680	320	—	470	—		
708	472	—	665	—		
699	431	—	616	—		1110 X
708	469	—	661	—		
728	329	—	452	—		1043 X
696	475	—	681	—		1
706	196	—	278	—		1030 X
705	370	365	525	517	7.59, 7.66	
700	305	—	435	—		1104 X
713	413	404	580	565	7.87, 7.83	
714	77	85	108	119	5.79, 5.90	
708	452	—	636	—		
708	314	—	444	—		
683	313	313	459	459	7.44, 7.44	
681	103	—	151	—		1254 X
663	381	—	575	—		1176 X
675	400	—	593	—		1201 X
681	330	—	485	—		1235 X
710	408	365	564	514	7.83, 7.65	
685	160	151	233	220	6.67, 6.61	
678	148	150	218	220	6.58, 6.61	
723	369	—	511	—		926 X
700	400	381	570	545	7.84, 7.75	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

Fmc R H 1915 May 14, 1920

Strips	class	Star	y	x	Dyll	Dyll	cc	Dh	Volt
16.8	fp	14	1690	940	580	—	885	151	
	fp	15	1679	900	441	—	820	151	
17.0	f	9	1709	553	601	595	849	151	
	f	10	1712	1088	347	345	820	152	
17.2	f	11	1728	445	528	519	858	152	
	f	12	1738	780	569	560	850	155	
	fp	16	1720	807	520	—	832	154	
17.4	f	13	1749	275	532	537	869	153	
	fp	17	1743	280	568	—	850	152	
	f	14	1740	420	425	215	860	153	
	f	15	1750	580	470	485	838	154	
	f	16	1758	948	311	310	829	156	
17.6	fp	18	1760	396	497	—	860	155	
	f	17	1777	676	430	411	830	155	
	fp	19	1769	691	429	—	838	155	
	fp	20	1761	915	589	—	815	158	
	fp	21	1770	1001	578	—	818	156	
	fp	22	1760	1048	532	—	820	159	
		18	2035	748	160		740	159	
		1	1830	446	170		841	155	
		2	—	—	200	—	831	158	
		3	—	—	220		780	154	
		4	—	—	225	—	839	155	
		5	—	—	285	—	822	158	
		6	—	—	410	—	850	158	
		7	—	—	431	—	805	155	
		8	—	—	625	—	820	158	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl.-Dk.	Defl.-Dk.	Defl.-Dk	Reduced	Reduced Magn.		L. No.
734	429	—	585	—		
669	290	—	434	—		1208 X
698	450	444	645	635	6.51, 8.07	
668	195	193	291	289	6.89, 6.87	
706	376	367	533	520	7.72, 7.67	
696	414	405	595	583	7.93, 7.89	
678	366	—	540	—		1166 V
716	379	384	529	536	7.70, 7.73	
698	416	—	596	—		392 X
707	72	62	102	88	5.74, 5.50	
684	316	331	463	484	7.49, 7.63	
673	155	154	230	229	6.65, 6.14	
705	342	—	485	—		907 V
675	275	256	407	380	7.27, 7.18	
683	274	—	402	—		1109 V
657	431	—	655	—		
662	422	—	637	—		
661	373	—	565	—		8 X
581	01	—	2	—		
686	15	—	22	—		
673	42	—	63	—		
626	66	—	105	—		
684	70	—	102	—		
664	127	—	191	—		
692	252	—	364	—		
650	276	—	425	—		
662	467	—	705	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

NGP- R.A. 1915- May 1, 1920

Strip	class	star	y	x	Dyf	Dyf	d	Dh	Facts
		10	2095	748	151	—	833	149	520
		1	1830	446	164	—	867	149	
		2	—	—	192	—	839	150	
		3	—	—	211	—	817	149	
		4	—	—	222	—	868	150	
		5	—	—	281	—	847	150	
		6	—	—	403	—	863	150	
		7	—	—	459	—	881	150	
		8	—	—	597	—	827	150	
17.8	p	23	1791	232	761	—	887	152	
	p	24	1781	271	548	—	879	151	
	f	18	1780	390	588	574	862	151	
	p	25	1797	492	570	—	877	151	
	f	19	1783	627	639	602	851	151	
	f	20	1778	683	588	568	853	152	
	f	21	1798	791	273	281	823	152	
	p	26	1789	890	358	—	829	152	
	p	27	1779	911	389	—	839	151	
	f	22	1798	950	670	691	818	155	
	p	28	1782	1093	472	—	822	153	
18.0	f	23	1803	168	801	773	897	157	
	f	24	1809	298	642	622	870	167	
	f	25	1811	259	737	706	883	158	
	f	26	1802	283	760	753	869	168	
	f	27	1811	363	660	721	841	167	
	p	29	1808	467	642	—	863	157	
	f	28	1800	559	471	470	854	155	
	f	29	1810	622	698	682	849	158	
	p	30	1812	682	653	—	829	158	
	p	31	1801	883	452	—	819	158	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl.-Dk.	Defl.-Dk.	Dfl.-Dk.	Reduced	Reduced	Magn.	L. No.
684	2	—	3	—		
715	15	—	21	—		
689	42	—	61	—		
668	62	—	93	—		
718	72	—	100	—		
697	131	—	187	—		
713	253	—	355	—		
731	309	—	423	—		
677	447	—	660	—		
735	609	—	829	—		
728	397	—	545	—		580 X
711	437	423	615	595	8.11, 8.04	
726	419	—	576	—		948 ✓
700	482	451	687	644	8.38, 8.23	
701	436	416	621	594	8.14, 8.05	
671	121	129	180	192	6.39, 6.43	
677	206	—	304	—		1242 ✓
688	238	—	346	—		1251 ✓
663	515	536	774	810	offcurve, offcurve	
669	319	—	447	—		23 X
740	644	616	868	832	offcurve, offcurve	
703	475	455	645	647	8.34, 8.23	
725	599	548	799	756	offcurve, offcurve	
701	592	585	844	835	offcurve, offcurve	
704	493	554	700	785	8.43, offcurve	
706	485	—	686	—		
699	316	315	452	451	7.53, 7.52	
691	540	524	780	756	offcurve, offcurve	
671	495	—	737	—		1100 X
661	294	—	445	—		1246 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

XP - RH 1915 - May 14, 193

Strip	class	star	y	y	Diff	Diff	cc	Dh
	f	30	1798	949	667	716	812	157
	f	32	1802	1060	681	—	842	158
	f	31	1812	1193	653	622	848	159
18.2	f	37	1835	339	711	792	868	159
	f	33	1834	400	750	729	861	159
	f	33	1830	547	620	—	842	159
	f	34	1820	727	353	380	844	159
	p	34	1818	790	571	—	812	160
	f	35	1837	922	516	500	826	157
	p	35	1818	1074	661	—	829	159
	p	36	1829	1121	729	—	832	160
	p	37	1830	1126	370	—	830	160
18.4	p	38	1850	217	670	—	877	160
	f	36	1851	219	769	774	878	160
	f	37	1850	598	693	793	852	161
	p	39	1837	627	732	—	861	160
	p	40	1840	723	637	—	852	160
	p	41	1840	923	338	—	821	160
	f	38	1837	922	503	518	837	159
	p	42	1849	993	593	—	821	160
	f	39	1849	1004	291	275	821	160
	p	43	1850	1050	609	—	830	160
		1	2135	748	162	—	840	160
		1	1830	446	173	—	867	160
		2	—	—	202	—	877	161
		3	—	—	227	—	822	160
		4	—	—	238	—	842	160
		5	—	—	291	—	836	161
		6	—	—	400	—	867	160
		7	—	—	431	—	868	162
		8	—	—	618	—	830	162

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl-Dk.	Defl-Dk.	Defl-Dk.	Reduced	Reduced	Magn.	L No
655	510	553	780	844	off curve	
684	523	—	765	—		
689	494	463	715	670	8.49, 8.32	
709	552	633	776	891	off curve, off curve	
702	591	570	841	813		
683	461	—	675	—		975 X
682	194	221	284	324	6.89, 7.05	
662	311	—	477	—		
669	359	343	536	513	7.82, 7.74	
670	502	—	748	—		
672	569	—	847	—		
670	210	—	314	—		51 X
717	510	—	710	—		840 X
713	609	614	855	860	off curve, off curve	
691	532	572	770	826	7.43, off curve	
701	572	—	815	—		
692	477	—	690	—		
661	178	—	269	—		
678	344	359	506	528	7.72, 7.79	
661	433	—	655	—		
661	131	115	198	174	6.49, 6.37	
670	449	—	670	—		
680	02	—	3	—		
707	13	—	18	—		
656	31 67	—	47	—		
662	78	—	101	—		
682	130	—	114	—		
675	240	—	193	—		
707	269	—	340	—		
706	456	—	380	—		
668	↓	—	682	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

7mc QH 1915 May 15, 1930

Strip	Class	Star	α	δ	Diff	Diff	C_α	C_δ	Note
		18	2035	742	140		719	140	
		1	1830	441	152		829	140	
		2	—	—	180		810	141	
		3	—	—	202		770	141	
		4	—	—	211		820	141	
		5	—	—	270		809	141	
		6	—	—	401		840	145	
		7	—	—	418		785	148	
		8	—	—	620		802	148	
18.6	f	40	1860	380	611	580	821	149	
	fp	44	1871	561	619	—	811	150	
	fp	45	1871	736	495	—	800	149	
	fp	46	1861	881	550	—	785	150	
	f	41	1878	893	605	612	797	150	
18.8	fp	47	1889	490	599	—	822	151	
	f	42	1897	555	215	220	820	150	
	f	43	1890	983	469	435	781	151	
	f	44	1887	1077	610	614	810	151	
	f	45	1899	1229	349	352	801	152	
19.0	fp	48	1910	196	598	—	829	153	
	f	46	1901	300	340	327	838	152	
	f	47	1909	330	429	430	829	152	
	f	48	1910	687	540	511	810	153	
	fp	49	1901	989	210	—	790	155	
	f	49	1900	1030	569	551	788	158	
	f	50	1912	1208	257	250	791	159	
19.2	f	51	1930	212	513	496	840	159	
	fp	50	1938	257	355	—	840	158	
	f	52	1930	653	587	552	814	159	
	fp	51	1939	1101	612	—	787	159	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12744C

α - Dk	Deff Dk	Dyf. - Dk	Reduced	Reduced	Magn	L. Ks.
579	0	—	0	—		
689	12	—	17	—		
669	39	—	59	—		
629	61	—	97	—		
679	70	—	103	—		
667	129	—	193	—		
695	256	—	368	—		
637	270	—	424	—		
654	472	—	720	—		
672	462	431	686	641	8.21, 8.01	
661	469	—	709	—		947 X
651	286	—	439	—		1171 ✓
635	406	—	630	—		
647	455	462	703	712	8.32, 8.37	
671	448	—	668	—		
670	65	70	97	104	5.69, 5.79	
630	318	284	505	450	7.57, 7.42	
659	469	463	696	701	8.27, 8.31	
649	197	200	304	308	7.00, 7.01	
676	445	—	656	—		5
686	188	175	274	255	6.89, 6.82	
677	277	278	408	409	7.28, 7.29	
657	387	358	587	545	7.80, 7.69	
635	55	—	87	—		56 ✓
630	411	393	651	624	8.20, 7.93	
632	98	91	155	144	6.21, 6.14	
681	354	337	520	495	7.62, 7.54	
682	197	—	289	—		805 ✓
655	428	393	655	600	8.07, 7.84	
628	463	—	720	—		90 X

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

208

Tmc R.A. 1915 May 15, 1930 +16

Setup	Class	Star	y	x	Dyff	Dyff	cc	Dh	Volt
19.4	fp	52	1958	120	500	—	839	160	
	f	53	1950	210	484	—	834	160	
	fp	54	1950	531	605	—	810	160	
	f	53	1950	640	341	340	798	160	
	fp	55	1941	919	433	—	787	161	
19.6	f	54	1970	923	417	420	790	161	
19.8	f	55	1990	170	610	610	838	161	
	fp	56	1983	609	513	—	819	162	
	f	56	1980	721	621	601	800	162	
	fp	57	1990	952	570	—	800	164	
	fp	58	1998	1064	543	—	800	165	
	fp	59	1991	1255	604	—	815	169	
20.0	f	57	2000	085	580	600	838	168	
	f	58	2000	922	579	580	790	168	
		1S	2035	742	170	—	720	168	
		1	1830	441	180	—	810	165	
		2	—	—	204	—	809	165	
		3	—	—	222	—	735	165	
		4	—	—	238	—	812	166	
		5	—	—	291	—	800	168	
		6	—	—	400	—	830	167	
		7	—	—	451	—	787	168	
		8	—	—	600	—	810	168	
Tmc R.A. 1915 May 16, 1930		1S	2035	746	161	—	702	159	
		1	1830	442	170	—	800	158	
		2	—	—	194	—	774	158	
		3	—	—	220	—	705	155	
		4	—	—	230	—	780	155	
		5	—	—	320	—	770	155	
		6	—	—	374	—	793	155	
		7	—	—	418	—	740	155	
		8	—	—	560	—	760	154	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl.-Dk.	Defl-Dk.	Defl-Dk.	Reduced	Reduced	Magn.	L. Ko.
679	340	—	500	—		
674	324	—	482	—		790 ✓
650	445	—	685	—		2035 ✓
638	181	180	284	282	6.93, 6.92	
626	272	—	455	—		62 ✓
629	256	259	406	412	7.28, 7.31	
677	449	449	664	664	8.09, 8.09	
659	351	—	534	—		
638	459	439	719	687	8.40, 8.22	
636	406	—	638	—		
635	378	—	595	—		118 ✓
646	435	—	674	—		
670	412	432	615	644	7.90, 8.03	
622	411	412	661	662	8.10, 8.10	
552	12	—	3	—		
645	15	—	23	—		
644	39	—	60	—		
570	54	—	100	—		
646	72	—	112	—		
632	123	—	195	—		
663	233	—	352	—		
609	283	—	465	—		
642	432	—	672	—		
543	02	—	3	—		
642	12	—	18	—		
616	36	—	58	—		
550	75	—	118	—		
625	75	—	120	—		
615	165	—	268	—		
638	219	—	343	—		
585	263	—	449	—		
606	406	—	670	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

FMC A H 1915 May 16, 1930

Strip	class	star	y	x	Diff	Diff	cl	Zh	Vath
20.2	p	60	2029	265	537	—	810	155	
	f	59	2022	700	451	445	792	172	
	p	61	2031	819	552	—	770	172	
	f	60	2039	1140	479	475	783	173	
	p	62	2021	1244	560	—	787	173	
20.4	p	63	2059	308	519	—	809	175	
	p	64	2042	422	597	—	800	175	
	f	61	2050	910	230	225	770	178	
	p	65	2042	1061	503	—	761	177	
20.6	f	62	2069	353	380	398	802	180	
	p	66	2061	950	530	—	760	180	
20.8	f	63	2089	120	589	595	810	180	
	f	64	2080	126	390	378	815	180	
	f	65	2082	480	338	333	811	180	
	f	66	2090	610	528	520	779	181	
	f	67	2088	660	528	510	768	181	
21.2	p	67	2130	300	479	—	810	183	
	f	68	2120	1117	490	472	770	185	
	p	68	2138	1133	350	—	770	185	
		18	2035	746	190		700	189	
		1	1830	442	200		788	188	
		2	—	—	230	—	780	189	
		3	—	—	250	—	710	188	
		4	—	—	255	—	782	188	
		5	—	—	309	—	777	188	
		6	—	—	448	—	795	188	
		7	—	—	428	—	758	188	
		8	—	—	590		778	190	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl.-Dk.	Defl.-Dk.	Diff.-Dk.	Reduced	Reduced	Magn.	L.K.
655	382	—	582	—		
620	279	273	450	440	7.07, 7.01	
598	388	—	635	—		
610	306	302	502	495	7.60, 7.57	
614	387	—	630	—		134 X
634	344	—	544	—		748 V
625	422	—	675	—		765 V
592	52	47	88	79	5.57, 5.46	
584	326	—	560	—		
622	200	213	322	342	6.80, 6.89	
580	350	—	604	—		
630	409	415	649	657	8.23, 8.27	
635	210	198	330	312	6.82, 6.74	
631	158	153	250	242	6.49, 6.43	
598	347	339	580	566	7.93, 7.87	
587	347	329	590	560	7.97, 7.83	
627	296	—	472	—		713 V
585	305	287	522	490	7.68, 7.53	
585	165	—	282	—		183 X
511	61	—	2	—		
606	12	—	20	—		
591	41	—	69	—		
522	62	—	119	—		
594	67	—	113	—		
589	121	—	205	—		
607	260	—	428	—		
565	240	—	425	—		
588	400	—	680	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

ZgP-R+H 1915- May 16, 1920

Strip	Class	Star	y	x	Dyfe	Dyfe	ce	Dh	Weh
		10	2095	746	190	—	790	188	510
		1	1830	442	200	—	790	189	
		2	—	—	228	—	774	188	
		3	—	—	248	—	767	188	
		4	—	—	250	—	792	190	
		5	—	—	303	—	779	190	
		6	—	—	401	—	802	189	
		7	—	—	433	—	809	188	
		8	—	—	577	—	770	191	
21.4	f	69	2100	108	616	589	818	188	
	f	70	2150	187	512	492	819	189	
	p	69	2151	967	290	—	779	188	
	f	71	2147	998	650	667	771	190	
	p	70	2150	1217	647	—	783	191	
	p	71	2151	1263	652	—	790	191	
	f	72	2151	1279	296	299	787	190	
21.6	f	73	2170	188	602	608	817	191	
	p	72	2168	192	698	—	805	191	
	f	74	2167	239	693	690	832	191	
	f	73	2159	389	642	—	813	191	
	f	75	2177	472	498	488	800	193	
	p	74	2168	511	349	—	807	190	
	f	76	2161	563	660	640	806	193	
	p	75	2170	930	672	—	768	193	
	f	77	2160	992	715	689	778	192	
	f	78	2170	1128	659	652	779	191	
21.8	p	76	2182	270	633	—	820	193	
	p	77	2180	410	689	—	820	197	
	f	79	2180	417	649	656	809	200	
	f	80	2178	472	520	511	809	200	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
602	02	—	3	—		
601	11	—	18	—		
586	40	—	68	—		
579	66	—	104	—		
602	60	—	100	—		
589	113	—	192	—		
613	212	—	346	—		
621	245	—	395	—		
579	386	—	666	—		
630	428	401	680	636	8.32, 8.14	
630	323	203	513	481	7.68, 7.56	
591	102	—	173	—		205 V
581	460	477	791	821	off curve	
592	456	—	772	—		
599	461	—	769	—		181 X
597	106	109	177	183	6.30, 6.36	
626	411	417	655	665	8.22, 8.26	
617	507	—	821	—		707 X
641	502	499	782	779	off curve	
622	451	—	725	—		
607	305	295	503	485	7.65, 7.57	
617	259	—	419	—		627 V
613	467	447	763	730	off curve	
575	479	—	833	—		
586	523	497	890	849	off curve	
588	468	461	796	785	off curve	
627	440	—	700	—		688 V
623	492	—	790	—		
609	449	456	736	748	off curve	
619	320	311	525	511	7.72, 7.68	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Xgp-R.H 1915— May 16, 1930

Notes	Class	star	y	x	Dep1	Dep1	cc	Dk	Volts
		81	2193	728	639	639	797	198	
		82	2180	819	576	568	782	198	
		83	2180	1211	669	667	798	197	
		78	2197	1270	600	—	789	197	
22.0		84	2203	339	661	702	817	193	
		79	2210	343	591	—	820	197	
		80	2212	409	708	—	812	198	
		85	2210	590	678	670	798	195	
		86	2198	692	511	506	782	182	
		87	2202	853	630	612	790	192	
		88	2208	973	648	647	670	197	
		89	2210	988	702	710	783	193	
		81	2204	1141	657	—	790	193	
22.2		90	2223	200	690	662	827	195	
		82	2220	236	488	—	828	198	
		83	2237	420	360	—	822	198	
		84	2220	472	569	—	811	201	
		91	2230	478	710	720	807	200	
		92	2239	742	573	579	782	201	
		85	2220	901	667	—	798	202	
		93	2220	922	610	617	783	203	
22.4		86	2230	1042	388	—	791	202	
		94	2221	1139	620	623	791	203	
		87	2220	1247	509	—	803	204	
22.4		95	2248	089	466	458	822	198	
		88	2250	102	552	—	827	199	
		89	2244	159	556	—	837	199	
		96	2240	167	673	661	822	199	
		90	2250	350	470	—	828	201	
		91	2251	1014	633	—	790	203	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj..1274C

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn. L. No.
599	441	435	735	725	off curve
584	378	370	647	634	8.17, 8.12
601	472	470	785	783	off curve
592	403	—	680	—	
624	468	509	750	815	off curve
623	394	—	633	—	664 x
614	510	—	830	—	
603	483	475	800	787	off curve
600	329	324	548	540	7.80, 7.77
598	438	420	734	700	off curve
473	451	450	954	953	off curve
590	209	217	354	368	7.07, 7.12
597	464	—	775	—	
632	495	467	784	740	
630	290	—	460	—	679 v
624	162	—	260	—	625 v
610	362	—	594	—	601 v
607	516	520	840	855	off curve
581	372	378	640	650	8.15, 8.20
589	565	—	960	—	
580	407	414	703	713	off curve
589	186	—	316	—	242 x
588	417	420	710	715	off curve
599	305	—	509	—	206 x
624	268	270	430	433	7.36, 7.38
628	353	—	562	—	683 x
638	357	—	558	—	
623	474	462	760	740	off curve, off curve
627	269	—	429	—	442 v
587	450	—	765	—	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Ugp - R H 1915 - May 16, 1930

Trip	Class	Star	y	x	Dep e	Dep l	Ce	Dk	Volts
	f	97	2200	1048	690	678	783	208	
22.6	p	92	2261	569	720	—	800	212	
	f	98	2275	570	693	680	809	213	
	p	93	2268	759	709	—	807	217	
	p	94	2259	940	558	—	808	217	
	f	99	2260	1071	637	643	798	218	
	p	95	2273	1130	664	—	791	220	
22.8	p	96	2290	330	714	—	839	220	
	p	97	2283	372	769	—	828	220	
	f	100	2282	529	723	706	830	220	
	f	101	2290	598	722	709	829	221	
	p	98	2290	594	760	—	822	221	
	f	102	2290	634	720	703	828	222	
	f	103	2291	801	553	555	817	222	
	f	104	2289	841	631	615	823	223	
	f	105	2292	866	629	633	808	223	
	p	99	2290	958	381	—	818	227	
	p	100	2290	1192	272	—	820	230	
23.0	f	106	2310	160	291	300	853	228	
	p	101	2300	371	372	—	842	228	
	f	107	2300	381	671	660	849	223	
	f	108	2303	444	720	718	847	228	
	p	102	2316	600	691	—	830	224	
	p	103	2300	755	358	—	817	223	
	p	104	2309	823	520	—	823	223	
	p	105	2304	970	696	—	813	223	
	p	106	2306	1069	537	—	822	225	
	p	107	2311	1230	342	—	815	228	
		100	2035	746	228	—	794	223	
		1	1830	442	238	—	838	222	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12742

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. No
575	482	470	835	818	off curve	
588	508	—	864	—		
596	480	467	805	785	off curve, off curve	
590	492	—	832	—		
591	341	—	577	—		274 L
580	419	425	724	731	off curve, off curve	
571	444	—	775	—		
619	494	—	795	—		
608	549	—	900	—		
610	503	486	825	798	off curve, off curve	
608	201	182	330	300	6.99, 6.87	
601	539	—	898	—		
606	498	481	822	791	off curve, off curve	
595	331	333	555	560	7.83, 7.85	
600	408	392	680	655	8.31, 8.22	
585	406	410	695	700	8.37, off curve	
591	154	—	260	—		279 V
590	42	—	71	—		239 X
625	63	72	101	115	5.71, 5.86	
614	144	—	234	—		606 V
626	448	437	715	700	off curve, off curve	
619	492	490	794	792	off curve, off curve	
606	467	—	770	—		496 X
594	135	—	228	—		376 V
600	297	—	495	—		338 V
590	473	—	800	—		
597	312	—	523	—		
587	114	—	194	—		246 V
571	5	—	8	—		
616	16	—	26	—		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Strip	Class	Star	Y	Z	Dep	Dep	cc	Dk	Notes
		2	—	—	260	—	800	223	
		3	—	—	283	—	788	222	
		4	—	—	290	—	812	222	
		5	—	—	340	—	802	221	
		6	—	—	428	—	822	221	
		7	—	—	460	—	824	222	
		8	—	—	601	—	789	220	510

Continued in BK76, pp. 58

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

Q-Dk	Defl-Dk	Red Defl
577	37	64
566	61	108
590	68	115
581	119	204
601	207	344
602	238	396
569	381	670

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C



John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.1274C

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1930phae.proj.12740

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System