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2

M.R.D. RH 1897 April 16, 1930

Cont. from bk. 74, 218

Sup.	class	star	y	x	Diff	Diff	cc	Dh	corr
		13	2091	789	002	—	849	—0	
		1	1743	679	120	—	833	—0	
		2	—	—	200	—	840	—0	
		3	—	—	258	—	850	—0	
		4	—	—	268	—	830	—0	
		5	—	—	338	—	853	—0	
		6	—	—	434	—	857	—0	
		7	—	—	483	—	868	—0	
		8	—	—	720	—	870	—0	
23.4	p	89	2350	144	628	—	874	—0.	
	p	90	2340	254	622	—	880	—0	
	p	69	2340	628	680	686	870	—0	
	p	91	2350	680	641	—	890	0	
	p	70	2349	938	218	213	904	010	
	p	71	2340	950	600	590	908	002	
	p	72	2340	1078	565	548	888	—0	
23.6	p	73	2357	607	668	670	864	—0	
23.8	p	92	2388	804	722	—	875	0	
24.0	p	93	2400	444	610	—	870	001	
	p	74	2412	894	685	650	840	005	
	p	75	2400	910	276	270	848	008	
	p	94	2410	1033	370	—	850	010	
		15	2091	789	030	—	849	008	
		1	1743	679	128	—	820	005	
		2	—	—	190	—	814	0	
		3	—	—	240	—	830	0	
		4	—	—	262	—	825	005	
		5	—	—	322	—	850	010	
		6	—	—	438	—	848	004	
		7	—	—	465	—	840	004	
		8	—	—	722	—	850	0	

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cl-Dk	Dyf.Dk	Dyf.Dk	Red Dyf	Red Dyf	Mag	L.NO
849	2	—	2	—		
833	120	—	144	—		
840	~~200~~	—	238	—		
850	258	—	304	—		
830	268	—	322	—		
853	338	—	396	—		
857	434	—	505	—		
868	483	—	555	—		
870	720	—	826	—		
874	628	—	720	—		
880	622	—	706	—		523 +
870	680	686	782	790	8.06, 8.08	
890	641	—	720	—		338 ✓
894	208	203	232	227	5.21, 5.13	
906	598	588	660	650	7.70, 7.66	
888	565	548	635	617	7.60, 7.53	
864	668	670	774	775	8.04, 8.04	
875	722	—	825	—		274 ✓
869	609	—	701	—		457 ✓
835	680	645	815	772	8.16, 8.05	
840	268	262	318	312	5.91, 5.89	1
840	360	—	428	—		183 +
841	22	—	26	—		
815	123	—	151	—		
814	190	—	234	—		
830	240	—	290	—		
820	257	—	313	—		
840	312	—	372	—		
844	434	—	514	—		
836	461	—	551	—		
850	722	—	850	—		

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DLJS - RH 1897 - April 16, 1930

Strip	class	Star	y	x	Diff	Diff	α	Dh	Obs't
		1*	2691	789	028	—	852	008	505
		1	1743	679	138	—	831	013	
		2	—	—	201	—	830	013	
		3	—	—	247	—	843	017	
		4	—	—	272	—	833	014	
		5	—	—	307	—	858	015	
		6	—	—	461	—	847	016	
		7	—	—	477	—	860	016	
		8	—	—	712	—	853	017	
24.2	p	95	2424	351	822	—	863	019	
		76	2428	601	748	743	867	020	
	p	96	2423	612	744	—	840	021	
	p	97	2420	799	421	—	860	022	
		77	2421	889	628	652	868	027	
	p	98	2430	902	487	—	893	032	
24.4		78	2440	319	102	087	871	027	
	p	99	2449	783	402	—	870	028	
		79	2449	833	522	567	873	021	
		80	2456	843	582	579	873	026	
24.6	p	100	2460	228	553	—	864	027	
		81	2466	348	727	728	863	022	
		82	2460	499	799	784	857	020	
		83	2470	782	340	328	864	018	
		84	2467	992	461	487	863	023	
		85	2458	1103	732	730	873	028	
24.8	p	101	2476	365	668	—	878	032	
		86	2478	578	743	660	856	029	
	p	102	2496	754	627	—	862	028	
25.0	p	103	2500	479	620	—	871	033	
	p	104	2502	877	672	—	877	031	

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cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO
844	20	—	24	—		
818	125	—	153	—		
817	188	—	230	—		
826	230	—	278	—		
819	258	—	315	—		
843	322	—	382	—		
831	445	—	535	—		
844	461	—	546	—		
836	695	—	830	—		
844	303	—	360	—		474 +
847	728	723	860	853	8.30, 8.27	
819	723	—	881	—		
838	399	—	475	—		279 ✓
841	601	625	715	744	7.85, 7.94	
861	455	—	530	—		240 ✓
844	75	60	89	71	3.80, 3.53	
842	374	—	445	—		294 ✓
852	501	546	588	640	7.47, 7.63	
847	556	553	656	653	8.21, 7.67	
837	526	—	629	—		498 +
841	705	706	834	838	8.22, 8.22	
837	779	764	930	911	8.59, 8.51	
846	322	310	380	366	6.50, 6.41	
840	438	464	523	551	7.25, 7.36	
845	704	702	834	830	8.23, 8.19	
746	636	—	852	—		457 +
827	714	631	862	763	8.31, 8.00	
834	599	—	719	—		
828	587	—	700	—		420 +
840	635	—	755	—		264 +

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1930phae.proj.12750

Dyf-R+ 1897- April 16, 1930

Steps	Class	Star	α	δ	Dyfl	Dyfl	cc	dk Volt	
		87	2500	913	783	790	882	038	
25.2	p	105	2520	452	327	—	870	028	
		88	2518	797	770	780	859	032	
25.4		89	2530	289	745	745	868	027	
		90	2540	342	770	800	869	028	
	p	106	2546	1069	647	—	878	038	
	p	107	2541	1163	762	—	890	033	
25.6		91	2560	660	534	567	858	037	
		92	2561	768	742	762	879	038	
	p	108	2566	936	761	—	880	037	
	p	109	2568	983	224	—	862	027	
25.8	p	110	2587	989	712	—	877	040	
26.0		93	2607	643	750	770	858	048	
	p	111	2611	870	532	—	879	043	
	p	112	2609	998	882	—	841	031	
		94	2600	1013	480	470	870	026	
26.4	p	113	2650	928	653	—	857	028	
26.6		95	2663	787	694	711	866	032	
		96	2663	821	743	756	871	034	
		10	2091	789	047	—	861	033	
		1	1743	679	152	—	840	033	
		2	—	—	208	—	842	032	
		3	—	—	222	—	853	033	
		4	—	—	291	—	830	039	
		5	—	—	311	—	858	030	
		6	—	—	430	—	840	033	
		7	—	—	487	—	860	031	
		8	—	—	738	—	843	031	000

Plate finished

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cl. Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
849	750	757	883	892	8.40, 8.43	
842	299	—	355	—		426+
827	738	748	893	905	8.43, 8.48	
841	718	718	855	855	8.29, 8.29	
841	742	772	880	916	8.37, 8.52	
840	609	—	725	—		206+
857	729	—	850	—		
821	497	530	605	645	7.52, 7.64	
835	704	724	844	865	8.24, 8.32	
843	724	—	858	—		225+
835	197	—	236	—		239+
837	672	—	802	—		
815	707	727	867	893	8.33, 8.42	
836	489	—	585	—		297+
810	351	—	433	—		242+
844	454	444	538	526	7.28, 7.25	
829	625	—	755	—		
834	662	679	794	815	8.09, 8.15	
837	709	722	846	860	8.25, 8.30	
828	14	—	17	—		
807	119	—	147	—		
810	176	—	217	—		
820	189	—	230	—		
797	258	—	324	—		
820	281	—	342	—		
807	397	—	491	—		
829	456	—	552	—		
812	704	—	871	—		

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8

Fmc R+ 1998 Apr. 17, 1930

Strip	Class	Star	y	x	Diff	Diff	Cl	Dk	Notes
		15	2091	773	−0	—	730	−0	
		1	1750	650	000	—	739	−0	
		2	—	—	040	—	672	−0	
		3	—	—	103	—	791	−0	
		4	—	—	110	—	710	−0	
		5	—	—	243	—	748	−0	
		6	—	—	438	—	760	−0	
		7	—	—	471	—	778	−0	
		8	—	—	655	—	752	−0	
15.4	f	1	1550	.628	525	505	732	−0	
	f	2	1550	689	501	530	750	−0	
15.6	p	1	1569	682	500	—	761	−0	
15.8	f	3	1590	735	600	605	768	−0	
	f	4	1579	949	560	470	762	000	
16.0	p	2	1598	952	488	—	795	−0	
	p	3	1610	538	603	—	773	−0	
	p	4	1602	870	613	—	762	−0	
	p	5	1610	919	330	—	738	−0	
	p	6	1610	946	498	—	745	−0	
16.4	f	5	1651	700	592	600	742	−0	
16.6	p	7	1668	650	538	—	753	000	
	p	8	1660	918	501	—	740	000	
	p	9	1670	1073	610	—	741	−0	
16.8	f	6	1680	651	602	550	750	−0	
	f	7	1689	768	645	610	732	−0	
17.0	p	10	1711	390	540	—	782	−0	
17.2	p	11	1730	435	395	—	711	−0	
	f	8	1730	810	500	509	755	−0	
17.4	p	12	1750	708	650	—	750	002	
17.6	f	9	1760	1009	560	513	757	−0	

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C-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Rd Dfl	Mag	L.No
730	0	—	0	—		
739	0	—	0	—		
672	40	—	60	—		
791	103	—	130	—		
710	110	—	155	—		
748	243	—	324	—		
760	438	—	577	—		
778	471	—	604	—		
752	655	—	872	—		
732	525	505	720	690	7.77, 7.65	
750	501	530	667	706	7.55, 7.72	
761	500	—	656	—		926+
768	600	605	780	785	7.97, 8.00	
762	560	470	735	617	7.83, 7.37	
795	488	—	615	—		809+
773	603	—	780	—		880+
762	613	—	805	—		
738	330	—	446	—		1030+
745	438	—	588	—		1043+
742	592	600	796	810	8.03, 8.07	
753	538	—	715	—		907✓
740	501	—	676	—		1044+
741	610	—	822	—		1110+
750	602	550	802	733	8.05, 7.83	
732	645	610	880	834	8.33, 8.16	
782	540	—	690	—		790✓
711	335	—	471	—		805✓
755	500	509	663	674	7.54, 7.60	
748	648	—	865	—		948✓
757	560	513	740	675	7.84, 7.59	

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Smc R H 1898 Apr. 17, 1930

Step	class	Star	y	x	Dyf	Dyf	cl	Dh	Volt
		15	2091	773	000	—	772	000	
		1	1750	650	020	—	770	−0.	
		2	—	—	065	—	740	−0	
		3	—	—	128	—	764	−0	
		4	—	—	135	—	768	000	
		5	—	—	260	—	780	008	
		6	—	—	450	—	790	009	
		7	—	—	515	—	795	003	
		8	—	—	700	—	777	002	
		2d gp	—	R H	1898	—	April	17, 1930	
		15	2091	773	107	—	930	098	525
		1	1750	650	123	—	922	097	
		2	—	—	183	—	843	109	
		3	—	—	238	—	913	101	
		4	—	—	251	—	849	103	
		5	—	—	382	—	932	108	
		6	—	—	582	—	944	108	
		7	—	—	637	—	950	107	
		8	—	—	821	—	942	112	
17.8	p	13	1795	1148	658	—	938	112	
18.0	p	14	1807	388	833	—	977	111	
18.2	p	10	1823	402	687	670	963	106	
	p	11	1830	730	528	510	948	118	
18.4	p	15	1847	888	642	—	955	113	
18.6	p	12	1872	170	747	783	977	111	
	p	16	1871	1010	700	—	940	117	
	p	17	1863	1199	310	—	947	114	
18.8	p	18	1892	1109	573	—	943	120	
19.0	p	13	1910	357	(593)	737	990	108	

Pressure effects by another star on top of it?

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Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
772	0	—	0	—		
770	20	—	26	—		
740	65	—	88	—		
764	128	—	168	—		
768	135	—	176	—		
772	252	—	326	—		
781	441	—	565	—		
792	512	—	645	—		
775	698	—	900	—		
		—		—		
832	9	—	11	—		
825	26	—	31	—		
743	83	—	112	—		
812	132	—	163	—		
746	148	—	198	—		
824	274	—	332	—		
836	474	—	565	—		
843	530	—	630	—		
830	709	—	855	—		
821	546	—	665	—		1104+
866	722	—	832	—		
857	581	564	676	656	7.41, 7.34	
830	410	492	495	592	6.88, 7.21	
842	529	—	629	—		1109 ✓
866	636	672	735	775	7.63, 7.75	
823	583	—	707	—		1166 ✓
833	196	—	236	—		1214+
823	453	—	550	—		1208+
882	—	—	—	—		

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Kap-Rig 1898 - April 17, 1920

Strip	Class	Star	y	x	Defl	Defl	cl	Dk	Patch
	p	19	1901	650	827	—	958	113	
	p	14	1904	1012	787	772	953	111	
	p	20	1903	1223	717	—	934	107	
19.2	p	21	1920	173	764	—	983	117	
	p	15	1917	496	230	210	958	113	
19.4	p	22	1944	249	770	—	971	111	
	p	16	1939	262	706	690	964	103	
19.6	p	23	1957	863	622	—	947	107	
	p	24	1977	1035	493	—	946	105	
19.8	p	25	1982	118	158	—	979	102	
	p	26	1983	1023	673	—	938	107	
	p	27	1980	1059	638	—	933	107	
	p	17	1981	1127	638	699	923	107	
20.0	p	28	2010	137	799	—	979	061	
	p	18	1999	820	159	146	894	044	
20.2	p	29	2033	328	541	—	863	030	
	p	19	2033	696	631	654	845	028	
	p	20	2021	882	383	403	843	023	
	p	30	2030	1018	341	—	849	020	
20.4	p	21	2043	346	567	553	844	013	
	p	22	2040	767	337	287	832	012	
	p	23	2053	889	166	142	809	011	
	p	24	2040	1132	623	563	829	022	
20.6	p	31	2062	392	999	—	862	023	
	p	32	2060	508	901	—	837	023	
20.8	p	33	2087	314	963	—	902	021	
	p	34	2080	443	679	—	865	023	
	p	35	2097	1198	679	—	813	021	
	p	36	2091	1216	620	—	806	020	
21.2	p	25	2116	778	638	582	812	010	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
845	714	—	844	—		2035 +
842	676	661	804	786	7.84, 7.78	
827	610	—	738	—		1235 +
866	647	—	745	—		681 +
845	117	197	138	234	6.50, 6.07	
860	659	—	767	—		679 ✓
861	603	587	700	680	7.48, 7.43	
840	515	—	612	—		1171 ✓
841	388	—	460	—		1242 ✓
871	56	—	64	—		1246 ✓
831	567	—	682	—		1251 ↓
826	531	—	642	—		
816	531	526	650	643	7.34, 7.32	
882	672	—	761	—		649 +
850	115	102	136	120	5.60, 5.35	
833	511	—	613	—		642 ✓
817	603	626	739	767	7.62, 7.73	
820	360	380	438	463	6.77, 6.79	
829	321	—	378	—		
831	554	540	667	651	7.39, 7.35	
820	325	275	396	334	6.58, 6.41	
798	149	131	187	164	5.87, 5.74	
781	601	541	770	693	7.71, 7.47	
839	376	—	446	—		625 ✓
814	278	—	342	—		627 ✓
831	342	—	411	—		606 ✓
842	656	—	780	—		601 ✓
792	652	—	823	—		
786	600	—	764	—		23 +
802	628	572	786	714	7.74, 7.54	

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1930phae.proj.12750

NJP-RH 1898 - April 17, 1930

Strip	Class	Star	y	x	Δeff	Δeff	cc	Δk	Notes
	p	37	2120	971	+72	—	806	013	
	p	38	2128	1053	107	—	803	007	
	l	26	2130	1252	+78	+46	787	006	
21.4	p	39	2123	324	609	—	833	009	
	p	40	2149	1206	386	—	797	012	
21.6	l	27	2174	1147	288	279	786	013	
21.8	l	28	2190	373	500	+70	828	017	
22.0	l	29	2209	581	098	+17	818	012	
22.2	l	30	2237	237	+88	+83	827	013	
	p	41	2234	926	668	—	814	020	
	p	42	2250	1059	638	—	792	020	
22.8	p	43	2288	259	696	—	828	017	
	p	44	2284	1029	630	—	777	018	
23.0	p	45	2303	242	193	—	812	020	
	p	46	2313	628	353	—	808	024	
	l	31	2300	1194	051	047	807	023	
23.2	p	47	2317	887	232	—	787	022	
	l	32	2326	1092	+29	466	792	022	
23.4	l	33	2340	600	717	707	807	021	
	l	34	2350	911	127	158	783	020	
	l	35	2340	924	545	564	780	017	
	l	36	2340	1050	578	540	787	022	
23.6	p	48	2362	252	683	—	819	019	
	p	49	2359	679	620	—	803	021	
23.8	p	50	2388	803	658	—	773	019	
	p	51	2374	1189	664	—	782	021	
		18	2091	773	032	—	782	026	
		1	1750	650	057	—	800	024	
		2	—	—	101	—	719	024	
		3	—	—	147		772	026	
		4	—	—	171	—	777	023	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
793	479	—	604	—		62 ✓
796	100	—	125	—		56 ✓
781	472	440	603	563	7.23, 7.18	
824	600	—	728	—		587 ✓
785	374	—	476	—		51 +
773	275	266	355	344	6.50, 6.45	
811	483	453	596	559	7.18, 7.07	
805	385	404	477	501	6.83, 6.92	
814	475	470	584	578	7.14, 7.12	
794	648	—	817	—		
772	618	—	800	—		118 ✓
811	679	—	837	—		541 ✓
759	612	—	805	—		
792	173	—	218	—		536 +
784	329	—	420	—		376 ✓
784	28	24	36	31	4.25, 4.15	
765	210	—	274	—		205 ✓
770	407	444	529	577	6.98, 7.15	
786	696	686	885	872	8.10, 8.05	
763	107	138	140	181	5.53, 5.85	
763	528	547	693	717	7.47, 7.53	
765	556	518	726	678	7.54, 7.41	
800	664	—	830	—		523 +
782	599	—	767	—		338 ✓
754	639	—	848	—		274 ✓
780	643	—	822	—		135 +
756	6	—	8	—		
776	33	—	42	—		
695	77	—	111	—		
746	121	—	162	—		
754	148	—	196	—		

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1930phae.proj.12750

2 gP - R.H. 1898 - April 17, 1930

Trip	Class	Star	y	x	Defl	Defl	ce	dk	Volts
		5	—	—	278		797	021	
		6	—	—	512		787	022	
		7	—	—	541		810	022	
		8	—	—	706		721	021	515
2 gP -		1a	2091	719	061	—	803	058	510
R.H. 1898		1	1750	583	086	—	810	060	
April 18, 1930		2	—	—	148	—	753	057	
		3	—	—	203	—	809	062	
		4	—	—	204	—	784	064	
		5	—	—	320	—	829	062	
		6	—	—	494	—	828	067	
		7	—	—	553	—	839	061	
		8	—	—	736	—	767	065	
24.0	l	37	2413	813	702	718	832	071	
	l	38	2402	831	297	303	832	063	
	p	52	2402	978	282	—	820	067	
24.2	p	53	2419	389	697	—	851	070	
	p	54	2420	744	433	—	821	064	
	l	39	2421	809	688	702	827	066	
	p	55	2423	847	494	—	813	068	
24.4	l	40	2440	237	153	142	857	071	
	p	56	2445	297	431	—	801	073	
	p	57	2450	729	432	—	828	072	
	l	41	2449	752	690	692	853	081	
24.6	l	42	2470	700	389	380	816	074	
	l	43	2457	761	667	663	824	082	
	l	44	2468	910	517	523	838	081	
24.8	p	58	2485	175	659	—	863	083	
25.0	p	59	2513	429	703	—	878	098	
	p	60	2580	703	724	—	873	110	

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1930phae.proj.12750

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
776	257	—	332	—		
765	490	—	642	—		
788	519	—	658	—		
700	685	—	980	—		
745	03	—	4	—		
750	26	—	35	—		
696	191	—	131	—		
747	141	—	189	—		
720	140	—	195	—		
767	258	—	336	—		
761	427	—	560	—		
778	492	—	630	—		
702	671	—	955	—		
761	631	647	828	850	7.91, 8.00	
769	234	270	304	351	6.14, 6.30	
753	315	—	418	—		183 +
781	627	—	802	—		451 ✓
757	369	—	488	—		279 ✓
761	622	636	817	836	7.87, 7.95	
745	426	—	572	—		240 ✓
786	82	71	164	90	5.10, 4.90	
728	358	—	491	—		474 +
756	360	—	478	—		294 ✓
772	549	551	711	713	7.55, 7.56	
740	313	304	423	411	6.53, 6.50	
742	585	581	789	784	7.80, 7.78	
757	436	442	576	583	7.07, 7.11	
780	576	—	737	—		498 +
790	605	—	765	—		420 +
763	617	—	808	—		

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1930phae.proj.12750

Dyf-RH 1898 — April 18, 1920

Strip	Class	Star	y	x	Dep.	Dep.	Cx	Dk	Date
	p	61	2500	827	727	—	860	098	
25.2	p	62	2537	702	428	—	860	092	
	p	63	2533	1019	703	—	844	097	
25.6	f	45	2561	580	672	696	867	102	
	p	64	2560	934	209	—	852	101	
26.0	p	65	2611	772	597	—	867	091	
	f	46	2601	931	557	551	859	097	
	p	66	2600	950	384	—	853	091	
26.4	p	67	2645	883	722	—	863	102	
		10	2091	719	100	—	852	093	
		1	1750	593	138	—	854	092	
Plate finished		2	—	—	180	—	797	095	
		3	—	—	265	—	842	092	
		4	—	—	254	—	850	088	
		5	—	—	382	—	853	091	
		6	—	—	551	—	860	091	
		7	—	—	601	—	868	091	
		8	—	—	787	—	847	092	505

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1930phae.proj.12750

Cl–Dk	Defl–Dk	Defl–Dk	Red Defl	Red Defl	Mag	L. No.
762	629	—	824	—		264 +
768	336	—	435	—		426 +
747	606	—	812	—		
765	570	594	743	777	7.65, 7.74	
751	108	—	144	—		239 +
776	506	—	653	—		
762	460	444	604	583	7.18, 7.41	
762	293	—	384	—		242 +
761	620	—	815	—		
759	7	—	9	—		
762	46	—	61	—		
702	85	—	121	—		
750	173	—	230	—		
762	266	—	347	—		
762	291	—	384	—		
769	460	—	597	—		
777	510	—	656	—		
755	695	—	920	—		

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1930phae.proj.12750

DGP - RH 1930 - April 19, 1930

Strip	Class	Star	y	x	Defl	Defl	Ce	Dk	Note
		10	1980	680	043	—	537	039	005
		.	2326	799	088	—	551	040	
		2	—	—	101	—	587	042	
		3	—	—	142	—	592	042	
		4	—	—	159	—	589	043	
		5	—	—	203	—	592	043	
		6	—	—	242	—	588	041	
		7	—	—	337	—	595	042	
		8	—	—	444	—	592	044	
14.0		1	1406	652	428	459	587	048	
		2	1405	688	401	441	598	051	
14.4		3	1441	713	507	512	592	052	
	p	1	1446	903	510	—	612	051	
14.6	p	2	1462	637	302	—	591	052	
		4	1462	829	443	469	609	053	
14.8	p	3	1480	1067	442	—	603	053	
15.0	p	4	1512	473	122	—	601	058	
	p	5	1512	522	483	—	616	060	
		5	1508	709	467	489	607	062	
		6	1509	810	340	368	635	060	
15.2		7	1520	466	526	563	602	056	
15.4		8	1551	677	444	492	603	061	
	p	6	1539	831	447	—	599	058	
	p	7	1547	1005	232	—	593	054	
15.6	p	8	1561	514	498	—	613	058	
		9	1573	591	503	523	618	058	
		10	1570	560	442	472	607	058	
	p	9	1560	639	511	—	592	058	
	p	10	1568	778	363	—	612	065	
15.8	p	11	1572	582	413	—	611	063	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	L. No	Mag
498	4	—	8	—		
511	48	—	94	—		
545	59	—	108	—		
550	100	—	182	—		
546	116	—	212	—		
549	160	—	292	—		
547	231	—	423	—		
553	295	—	533	—		
548	400	—	730	—		
539	380	411	705	761		8.18, off curve
544	350	390	640	714		7.78, 8.25
548	455	460	840	850		off curve, off curve
561	459	—	819	—		
539	250	—	464	—		+ 297
556	390	416	700	748		8.15, off curve
550	389	—	707	—		+ 239
543	64	—	118	—		↓
556	423	—	760	—		+ 225
545	405	427	743	785		off curve, off curve
545	280	308	486	535		7.21, 7.36
546	474	507	865	930		off curve, off curve
542	383	431	706	795		8.18, off curve
541	389	—	720	—		
539	178	—	330	—		+ 426
555	440	—	793	—		
560	445	465	795	830		off curve, off curve
549	384	414	700	752		8.15, off curve
534	459	—	850	—		
547	298	—	545	—		+ 420
548	350	—	637	—		+ 264

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1930phae.proj.12750

ZP - RH 1930 - April 19, 1930

trip	class	star	x	y	Dye	Dyfl	cl	Lk Talk	
	p	12	1579	709	380	—	600	060	
	p	13	1587	713	522	—	601	061	
	p	11	1589	729	782	512	597	066	
	p	17	1591	896	385	437	608	062	
	p	14	1589	1092	443	—	603	064	
	p		1574	1122	497	518	603	061	
		10	1980	680	077	—	568	064	
		1	2326	799	108	—	527	063	
		2	—	—	118	—	605	062	
		3	—	—	141	—	608	068	
		4	—	—	179	—	598	067	
		5	—	—	200	—	605	067	
		6	—	—	311	—	601	062	
		7	—	—	362	—	600	059	
		8	—	—	441	—	592	060	005
ZP RH 1930 April 20, 1930		15	1980	679	0—	—	444	0—	000
		1	2326	798	0—	—	423	0—	
		2	—	—	010	—	493	0—	
		3	—	—	041	—	501	0—	
		4	—	—	040	—	478	0—	
		5	—	—	081	—	478	0—	
		6	—	—	143	—	477	0—	
		7	—	—	171	—	487	0—	
		8	—	—	378	—	472	0—	
16.0	p	13	1610	368	262	368	488	0—	
	p	14	1602	479	130	175	468	0—	
	p	15	1611	629	210	292	482	0—	
	p	16	1600	689	077	083	480	0—	
	p	17	1603	873	340	384	498	0—	
	p	18	1607	972	340	413	488	0—	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. No.
540	320	—	593	—		
540	461	—	853	—		
531	416	446	785	840	off curve, off curve	
546	323	375	591	685	7.55, 8.03	
539	379	—	703	—		457 +
542	436	454	806	845	off curve, off curve	
504	13	—	26	—		
464	45	—	97	—		
543	56	—	104	—		
540	73	—	135	—		
531	112	—	211	—		
538	133	—	247	—		
539	249	—	463	—		
541	303	—	560	—		
532	381	—	716	—		
444	0	—	0	—		
423	0	—	0	—		
493	10	—	20	—		
581	41	—	82	—		
478	40	—	84	—		
478	81	—	169	—		
477	143	—	300	—		
487	171	—	350	—		
472	378	—	804	—		
488	262	368	535	752	7.55, 8.18	
468	130	175	278	373	6.70, 7.04	
482	210	232	435	482	7.24, 7.38	
480	077	083	160	173	6.06, 6.16	
498	370	384	740	770	8.15, 8.24	
488	370	413	755	843	8.19, 8.40	

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1930phae.proj.1275D

Zgp. – BH 1930 – April 21, 1930

Strip	Class	Star	y	x	Dcyl	Dcyl	cc	Dk	Volts
	f	19	1603	1122	318	327	483	0 –	
	p	15	1602	1142	392	—	488	0 –	
	p	16	1600	1229	223	—	489	0 –	
16.2	f	20	1620	370	350	388	500	0 –	
	f	21	1620	698	188	213	487	0 –	
	p	17	1629	674	168	—	486	0 –	
	f	22	1625	943	409	420	503	0 –	
	f	18	1638	1107	139	—	492	0 –	
	f	23	1629	1151	0	002	462	0 –	
16.4	p	19	1648	557	169	—	491	0 –	
	f	24	1653	577	277	303	487	0 –	
	f	25	1646	581	267	267	482	0 –	
	p	20	1649	590	408	—	500	0 –	
	p	21	1652	659	128	—	484	0 –	
	p	22	1643	847	348	—	511	0 –	
	f	26	1640	871	361	378	512	0 –	
	p	23	1650	1221	339	—	483	0 –	
16.6	p	24	1668	424	106	—	502	0 –	
	f	27	1665	559	080	077	493	0 –	
	f	28	1670	831	399	330	490	0 –	
	p	25	1661	1013	303	—	507	0 –	
	p	26	1663	1067	385	—	498	0 –	
16.8	p	27	1688	653	395	—	501	0 –	
	p	28	1680	998	329	—	484	0 –	
	p	29	1680	1227	388	—	477	0 –	
17.0	p	30	1692	269	303	—	503	0 –	
17.2	f	29	1730	392	186	212	511	0 –	
	f	30	1722	487	333	350	492	0 –	
	f	31	1729	519	201	210	508	0 –	
	f	32	1720	532	022	022	480	0 –	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO.
483	318	327	660	677	7.95, 7.99	
488	392	—	800	—		+
489	223	—	455	—		498
500	350	388	700	775	8.04, 8.22	
487	188	213	386	436	7.08, 7.23	
486	168	—	346	—		479
503	409	420	815	835	8.31, 8.37	
492	133	—	273	—		+ 479
462	0	2	0	4	4.53.	
491	169	—	344	—		240 ✓
487	277	303	567	623	7.67, 7.84	
482	267	267	555	555	7.63, 7.63	
500	408	—	818	—		
484	128	—	264	—		279 ✓
511	348	—	680	—		
512	361	378	705	740	8.07, 8.16	
483	339	—	703	—		+ 509
502	106	—	212	—		+ 183
493	80	77	162	156	6.09, 6.03	
490	339	330	691	674	8.04, 7.99	
507	303	—	596			451 ✓
498	385	—	770	—		
501	395	—	789	—		274 ✓
487	329	—	675	—		✓ 425
477	388	—	813	—		519 +
503	303	—	603	—		+ 135
511	186	212	364	415	7.01, 7.17	
492	333	350	677	712	8.00, 8.08	
508	201	210	394	412	7.11, 7.17	
480	22	22	46	46	5.18, 5.18	

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1930phae.proj.12750

Algol – R H 1930 – April 21, 1930

Strip	Class	Star	y	x	Diff	Diff	Cl	Δb	Volts
	p	31	1719	779	277	—	497	0 —	
	p	33	1730	808	322	338	487	0 —	
	p	34	1730	843	351	308	486	0 —	
	p	32	1720	1142	358	—	496	0 —	
	p	33	1720	1152	384	—	485	0 —	
	p	34	1720	1203	342	—	493	0 —	
	p	35	1727	1231	362	353	489	0 —	
17.4	p	36	1742	951	178	186	543	032	
	p	37	1742	516	422	428	534	047	
	p	35	1756	569	142	—	542	050	
	p	38	1751	812	382	393	557	063	
	p	39	1738	1037	401	423	577	050	
	p	40	1745	1210	373	408	553	045	
17.6	p	41	1770	250	061	058	531	044	
	p	36	1762	452	473	—	569	037	
	p	37	1762	829	147	—	532	022	
17.8	p	38	1783	427	327	—	520	018	
	p	42	1784	697	387	406	532	022	
	p	39	1780	1203	070	—	472	014	
18.0	p	43	1803	372	411	462	543	016	
	p	44	1800	602	369	402	529	014	
	p	45	1799	672	344	410	523	017	
18.2	p	40	1820	397	304	—	524	010	
	p	46	1824	668	407	411	577	011	
	p	41	1830	1127	463	—	498	011	
	p	47	1830	1208	201	253	532	019	
18.4	p	42	1838	529	337	—	509	014	
	p	43	1843	962	393	—	517	011	
	p	48	1847	1098	422	424	507	009	
	p	49	1851	1338	320	370	499	012	

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1930phae.proj.12750

Cl-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Red Dfl	Mag	L. No.
497	277	—	555	—	338	→
487	322	338	660	694	7.96, 8.03	
488	351	308	717	630	8.10, 7.87	
496	358	—	720	—		513 +
485	384	—	790	—		615 +
493	342	—	695	—		623 +
489	362	353	740	721	8.16, 8.11	
511	146	154	286	301	6.75, 6.80	
487	345	386	770	793	8.21, 8.25	
492	92	—	188	—		205
494	319	330	646	668	7.92, 7.98	
527	351	373	665	707	7.97, 8.07	
508	328	363	645	713	7.92, 8.09	
487	17	14	35	29	5.06, 4.95	
532	436	—	820	—		
510	125	—	245	—		376
502	309	—	615	—		
510	365	384	715	753	8.09, 8.19	
458	56	—	122	—		536 +
527	395	446	747	845	8.17, 8.40	
515	355	388	689	754	8.02, 8.19	
506	330	393	650	775	7.94, 8.22	
514	294	—	573	—		118
506	396	400	780	790	8.23, 8.26	
487	452	—	925	—		
513	182	234	355	456	6.98, 7.29	
495	323	—	653	—		
506	382	—	755	—		446 +
498	413	415	825	830	8.33, 8.36	
487	308	358	632	735	7.84, 8.14	

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1930phae.proj.12750

Hyp - R.A. 1930 — April 21, 1930

Sup.	class	star	y	x	Diff	Diff	cc	Dh
18.6		50	1853	279	343	387	511	013
		51	1861	981	379	423	515	011
		52	1860	863	142	178	502	007
		53	1867	1053	392	405	508	008
		44	1864	1059	428	—	506	014
18.8		54	1888	253	411	401	523	018
		55	1892	298	139	180	512	018
		56	1878	928	366	402	529	023
		57	1880	1072	203	240	523	021
		58	1881	1128	357	390	522	023
		59	1867	1268	404	432	527	018
		45	1910	1117	282	—	516	013
19.0		60	1909	1132	384	426	532	018
		61	1900	1173	423	443	517	018
		46	1920	249	180	—	510	022
19.2		62	1921	1167	450	452	511	019
		47	1923	1209	322	—	527	013
		63	1940	192	192	197	522	011
19.4		48	1950	323	431	—	512	016
		49	1940	399	079	—	517	011
		50	1951	481	214	—	508	016
		64	1952	667	247	241	502	017
		65	1930	1052	412	461	508	013
		51	1950	1128	303	—	472	012
		66	1940	1135	419	455	532	016
		10	1980	679	021	—	442	018
		1	2326	798	054	—	439	020
		2	—	—	049	—	518	020
		3	—	—	088	—	528	021
		4	—	—	103	—	507	022
		5	—	—	183	—	522	029

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
498	360	374	720	750	8.10, 8.18	
504	368	412	730	816	8.13, 8.31	
495	135	171	272	345	6.70, 6.95	
500	384	397	768	794	8.20, 8.26	
492	414	—	840	—		
505	393	383	777	757	8.23, 8.19	
495	121	162	244	324	6.57, 6.89	
500	343	379	685	757	8.02, 8.19	
502	182	219	362	436	7.01, 7.25	
499	334	367	670	735	7.98, 8.15	
509	386	414	758	811	8.19, 8.30	
503	269	—	535	—		570 ✓
514	366	408	713	795	8.09, 8.25	
499	415	425	830	850	8.36, off curve	
488	158	—	322	—		
492	431	433	876	880	off curve, off curve	
509	309	—	607	—		583 ✓
511	181	186	354	364	6.97, 7.02	
502	421	—	840	—		
506	68	—	134	—		56 ✓
492	198	—	404	—		62 ✓
485	230	224	474	462	7.35, 7.32	
495	399	448	805	906	8.30, off curve	
460	291	—	633	—		587 ✓
516	397	439	767	850	8.20, off curve	
424	3	—	7	—		
419	34	—	81	—		
498	29	—	58	—		
507	67	—	132	—		
485	81	—	167	—		
499	160	—	320	—		

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Strip	Class	Star	y	x	Dec	Dec	cc	dk	Volts
		6	—	—	223	—	512	022	
		7	—	—	254	—	513	021	
		8	—	—	423		506	029	495
2mc		18	1980	619	298	—	685	160	
9+1933		1	2326	739	408	—	570	160	
Apr. 27, 1930		2	—	—	421	—	710	157	
		3	—	—	460	—	725	160	
		4	—	—	500	—	725	160	
		5	—	—	525	—	721	158	
		6	—	—	580	—	700	158	
		7	—	—	610	—	710	152	
		8	—	—	660	—	715	154	
19.6	fp	52	1978	189	580	—	693	155	
	f	67	1961	903	670	676	728	160	
19.8	f	68	1991	183	628	634	740	162	
20.0	fp	53	2001	950	660	—	727	160	
	fp	54	2000	1079	600	—	742	160	
20.2	fp	55	2020	211	620	—	749	162	
	f	69	2030	251	590	611	750	162	
	f	70	2032	283	671	682	730	162	
	f	71	2020	498	489	492	725	169	
	f	72	2030	619	550	561	739	165	
	f	73	2020	762	640	668	741	170	
	f	74	2020	790	649	660	748	180	
	fp	56	2020	885	588	—	745	170	
	f	57	2020	1000	605	—	753	172	
	f	75	2020	1040	638	640	750	172	
20.4	fp	58	2048	374	582	—	761	179	
	f	76	2050	501	560	568	760	178	
	f	77	2040	690	630	638	749	180	

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1930phae.proj.12750

c-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Red Dfl	Mag	L. No.
490	201	—	410	—		
492	236	—	480	—		
477	394	—	825	—		
525	138	—	262	—		
510	248	—	485	—		
553	264	—	477	—		
565	300	—	536	—		
565	340	—	600	—		
563	367	—	653	—		
542	422	—	776	—		
558	458	—	820	—		
561	506	—	901	—		
538	425	—	787	—		23 +
568	510	516	895	906	8.41, 8.52	
578	466	472	805	814	7.52, 7.61	
567	500	—	880	—		601 ✓
582	440	—	756	—		606 ✓
587	458	—	780	—		08 +
588	428	449	728	762	6.87, 7.15	
568	509	520	895	915	8.40, 8.61	
556	320	323	575	580	6.82, 5.83	
574	385	396	671	690	6.47, 6.66	
571	470	498	824	874	7.70, 8.21	
568	469	480	825	844	7.71, 7.91	
570	413	—	725	—		627 ✓
581	433	—	745	—		625 ✓
578	466	468	805	810	7.52, 7.57	
582	403	—	691	—		1279 ✓
582	382	390	656	670	6.35, 6.47	
569	450	458	790	805	7.39, 7.52	

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1930phae.proj.12750

FMC RH 1930 Apr. 24, 1930

Strip	class	star	y	x	Dyl	Dyl	cl	sh
20.4	p	59	2052	1063	650	—	750	180
20.6	f	78	2075	555	480	500	740	177
20.8	f	79	2090	250	582	610	770	180
	p	60	2090	332	611	—	765	180
	p	61	2090	369	638	—	762	181
21.0	p	62	2099	358	585	—	761	180
	p	63	2109	700	660	—	745	180
	f	64	2110	1274	459	—	768	185
21.2	p	65	2120	529	652	—	760	187
	f	80	2138	1120	660 dif.	660	773	182
21.4	f	81	2141	170	640	681	762	185
	f	82	2147	798	660	670	749	183
	f	83	2158	890	515	528	705	180
	p	66	2145	1140	660	—	768	180
21.6	p	67	2167	178	628	—	770	183
	f	84	2170	372	655	655	761	182
	f	85	2161	1029	640	654	753	178
	p	68	2178	1033	657	—	762	180
	p	69	2170	1215	679	—	755	191
21.8	p	70	2180	280	643	—	770	200
22.0	f	71	2202	232	681	—	765	198
	p	72	2201	380	665	—	755	200
	f	86	2200	1213	680	660	790	209
22.2	p	73	2230	500	660	—	767	205
	p	74	2231	985	690	—	782	205
	f	87	2220	1225	690	707	788	203
22.4	p	75	2250	270	640	—	788	201
	f	88	2240	655	613	620	770	210
	f	89	2250	982	657	670	775	210
22.6	f	90	2265	419	667	680	790	210

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1930phae.proj.12750

cc–Dk	Dfl–Dk	Dfl–Dk	Red Dfl	Red Dfl	Mag	L.No
570	470	—	825	—		642 ✓
563	303	323	539	575	5.58, 5.83	
560	402	430	716	766	6.79, 7.19	
585	431	—	735	—		1251 ✓
581	457	—	787	—		1246 ✓
581	405	—	697	—		1242 ✓
565	480	—	850	—		2r +
583	274	—	470	—		660 +
573	465	—	811	—		1191 ✓
591	478	478	810	810	7.66, 7.56	
577	455	496	786	860	7.34, 8.05	
566	477	487	841	860	7.86, 8.06	
575	335	348	583	605	5.87, 6.01	
588	480	—	815	—		679 ✓
587	445	—	756	—		1235 +
579	473	473	815	815	7.61, 7.61	
575	462	476	802	826	7.50, 7.71	
582	477	—	820	—		713 ✓
564	488	—	868	—		681 +
570	443	—	775	—		1208 +
567	483	—	850	—		1201 +
555	465	—	837	—		
581	471	451	810	775	7.56, 7.26	
562	455	—	810	—		1109 ✓
577	485	—	840	—		748 ✓
585	487	504	835	860	7.81, 8.06	
587	439	—	745	—		
560	403	410	719	730	6.80, 6.91	
565	447	460	791	814	7.41, 7.62	
580	457	470	787	810	7.36, 7.57	

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1930phae.proj.12750

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≠mc R H 1930 Apr. 24, 1930

Grp	class	star	y	x	Diff	Dif	ca	Dh
22.8	fp	76	2278	240	643	—	780	200
	fp	77	2297	777	709	—	770	205
✓	f fp	78	2280	1000	708	~~729~~	790	210
	f	91	2283	1000	731	739	788	210
23.0	f	92	2310	378	630	647	790	210
	fp	79	2310	1020	713	—	789	202
23.2	f	93	2331	633	685	699	778	201
	fp	80	2330	680	695	—	771	202
23.4	f	94	2340	575	635	638	770	200
	fp	81	2359	950	629	—	760	200
23.6	f	95	2372	794	703	720	760	204
	fp	82	2372	998	673	—	780	200
	fp	83	2370	1110	721	—	782	201
23.8	f	96	2389	619	660	670	778	195
	f	97	2380	730	682	695	762	195
	f	98	2390	733	620	638	760	200
24.0	fp	84	2401	310	645	—	732	192
	f	99	2400	460	650	658	780	195
	fp	85	2418	739	648	—	765	190
		15	1980	619	328	—	749	202
		1	2326	739	402	—	635	200
		2	—	—	435	—	762	200
		3	—	—	490	—	770	200
		4	—	—	549	—	770	198
		5	—	—	565	—	762	198
		6	—	—	610	—	741	195
		7	—	—	640	—	740	198
		8	—	—	680	—	750	200

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1930phae.proj.12750

Q-Dk	Defl Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
580	443	—	763	—		1104 + ✓
565	504	—	890	—		893
580	498	—	860	—		09 +
578	521	529	900	915	8.44, 8.60	
580	420	437	725	755	6.87, 7.10	
587	511	—	869	—		764 +
577	484	498	836	864	7.81, 8.11	
569	493	—	865	—		948 ✓
570	435	438	763	770	7.17, 7.12	
560	429	—	766	—		805 ✓
556	499	516	896	926	8.40, 8.71	
580	473	—	815	—		792 +
581	520	—	895	—		758 +
583	465	475	798	815	7.43, 7.60	
567	487	500	860	880	8.06, 8.24	
560	426	438	750	784	7.05, 7.35	
540	453	—	838	—		1110 +
585	455	463	777	790	7.27, 7.38	
575	558	—	971	—		907 ✓
547	126	—	230	—		
435	202	—	465	—		
562	235	—	418	—		
570	290	—	508	—		
542	351	—	615	—		
564	367	—	650	—		
546	415	—	760	—		
542	442	—	815	—		
550	480	—	873	—		

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DLF – RH 1930 – April 25, 1930

Strip	Class	Star	y	b	Dyf	Dyf	Cl	Sk	Volts
		1a	1980	633	194	2	734	181	510
		1	2326	752	236	—	584	182	
		2	—	—	315	—	782	186	
		3	—	—	348	—	777	188	
		4	—	—	380	—	773	187	
		5	—	—	404	—	770	180	
		6	—	—	481	—	763	183	
		7	—	—	518	—	768	189	
		8	—	—	624	—	769	191	
24.2	p	86	2422	402	663	—	779	194	
	p	87	2420	484	560	—	767	196	
	p	88	2422	486	672	—	753	199	
	p	100	2419	619	582	587	793	198	
	p	101	2421	773	658	662	782	200	
	p	102	2427	813	678	722	808	210	
	p	103	2422	878	681	697	806	208	
	p	89	2422	1089	600	—	808	209	
24.4	p	90	2452	949	688	—	796	213	
24.6	p	91	2463	453	508	—	812	211	
	p	92	2464	482	470	—	792	204	
	p	93	2474	519	706	—	807	208	
	p	94	2472	529	614	—	801	197	
	p	104	2470	613	646	687	783	198	
	p	105	2459	689	650	677	767	197	
	p	95	2471	863	573	—	788	197	
24.8	p	106	2487	457	652	666	772	197	
	p	107	2484	667	552	594	777	198	
	p	96	2492	802	668	—	811	202	
	p	108	2489	847	707	710	783	203	
	p	109	2490	987	650	683	800	202	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	mag	L. NO.
553	13	—	23	—		
402	54	—	135	—		
596	129	—	216	—		
589	160	—	272	—		
586	193	—	329	—		
590	224	—	380	—		
580	298	—	514	—		
579	329	—	567	—		
542	424	—	749	—		
585	469	—	801	—		
571	364	—	634	—		1044 +
554	473	—	855	—		
595	384	389	645	653	7.83, 7.36	
582	458	462	790	794	off curve, off curve	
598	468	512	782	854	off curve, off curve	
603	478	494	795	820	off curve, off curve	
599	391	—	653	—		
583	475	—	815	—		840 +
601	297	—	494	—		1043 +
588	266	—	452	—		1030 +
604	503	—	831	—		
604	417	—	691	—		
585	448	489	765	835	8.40, off curve	
570	453	480	795	842	off curve, off curve	
591	376	—	635	—		880 +
575	455	469	790	815	off curve, off curve	
579	354	396	610	683	7.65, 8.03	
609	466	—	765	—		
580	504	507	868	875	off curve, off curve	
598	448	481	750	803	8.32, off curve	

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1930phae.proj.12750

2gp - R H 1930 - April 25, 1930

Strip	Class	Star	ny	h	Dyl	Dyl	cl	dk	Volts	
25.0	p	97	2512	717	531	—	818	207		
	p	98	2504	757	609	—	792	204		
	p	99	2500	825	591	—	792	208		
25.2	d	110	2522	712	537	518	782	203		
	d	111	2521	773	488	520	782	207		
	d	112	2532	859	650	682	809	214		
25.4	p	100	2548	697	643	—	797	211		
	p	101	2539	729	671	—	811	213		
25.6	d	113	2560	649	685	707	803	212		
		10	1980	630	226	—	762	214		
Date		1	2326	752	287	—	711	229		
finished		2	—	—	357	—	818	231		
		3	—	—	377	—	804	223		
		4	—	—	427	—	801	221		
		5	—	—	453	—	808	214		
		6	—	—	507	—	789	212		
		7	—	—	536	—	792	214		
		8	—	—	647	—	787	213	510	

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1930phae.proj.12750

C-Ok	Defl-Ok	Defl-Ok	Red Defl	Red Defl	Mag.	L. No.
611	324	—	530	—		926 +
588	405	—	684	—		892 +
589	388	—	658	—		↓
579	334	315	576	544	7.47, 7.31	
545	281	313	484	545	6.97, 7.32	
595	436	468	733	786	8.24 off curve	
586	432	—	735	—		
598	458	—	765	—		
581	473	495	814	850	off curve, off curve	
548	12		22	—		
488	64	—	131	—		
587	126	—	214	—		
581	154	—	264	—		
580	206	—	354	—		
594	239	—	403	—		
577	295	—	510	—		
578	322	—	556	—		
574	434	—	755	—		

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1930phae.proj.12750

NGP-R # 1920 - April 28, 1920

Strip	Class	Star	y	x	Diff	Diff	cl	Sk	Ratio
		1A	1942	793	222	—	570	208	511
		1	1929	429	253	—	603	206	
		2	—	—	288	—	587	212	
		3	—	—	337	—	579	213	
		4	—	—	346	—	591	217	
		5	—	—	403	—	577	208	
		6	—	—	469	—	587	212	
		7	—	—	487	—	579	202	
		8	—	—	541	—	569	213	
14.4	p	1	1456	782	508	—	593	211	
14.6	p	2	1461	737	348	—	583	211	
14.8	p	3	1482	655	482	—	594	207	
15.0	p	4	1502	726	510	—	587	212	
	p	1	1513	758	417	401	597	218	
15.2	p	2	1527	628	523	518	557	182	
	p	5	1532	676	500	—	557	171	
15.4	p	6	1550	901	461	—	531	150	
	p	3	1543	951	419	464	528	141	
15.6	p	4	1571	437	462	477	520	130	
	p	7	1568	468	487	—	508	127	
	p	8	1559	731	381	—	495	123	
	p	5	1568	902	464	462	491	120	
	p	9	1566	1002	362	—	479	121	
15.8	p	6	1580	1099	277	261	481	117	
16.0	p	10	1601	410	392	—	503	115	
	p	7	1600	678	372	354	479	112	
16.2	p	11	1628	399	350	—	497	113	
	p	8	1617	1147	386	369	482	112	
16.4	p	12	1646	442	403	—	453	110	
	p	13	1649	597	453	—	476	107	

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1930phae.proj.12750

Cl − Dk	Defl Dk	Defl-Dk	Red Defl	Red Defl	Mag	L No.
367	19	—	52	—		
397	44	—	118	—		
375	76	—	202	—		
366	124	—	338	—		
374	129	—	344	—		
369	195	—	529	—		
375	254	—	685	—		
374	285	—	756	—		
356	328	—	920	—		
382	294	—	777	—		
372	132	—	354	—		1229 ↑
387	275	—	710	—		1284 ✗
375	298	—	795	—		1207 ✗
379	199	183	525	483	6.52, 6.36	
375	341	336	909	895	8.42, 8.29	
386	329	—	851	—		1176 ✗
381	311	—	815	—		8 ✗
387	278	323	720	835	8.22, 7.81	
390	332	347	850	890	7.92, 8.23	
381	360	—	945	—		1208 ✗
373	259	—	695	—		
371	344	342	926	923	8.56, 8.55	
358	241	—	673	—		51 ✗
364	160	144	440	396	6.29, 6.03	
388	277	—	714	—		1043 ✗
367	260	242	710	660	7.19, 7.02	
384	237	—	616	—		
370	274	251	740	695	7.31, 7.63	
343	293	—	855	—		1044 ✗
369	346	—	940	—		

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1930phae.proj.12750

Hyp-R 4 1920 - April 28, 1930

Trip	Class	Star	y	x	Dyff	dyff	cc	Dk	Volts
	p	14	1640	677	397	—	470	109	
	p	15	1637	794	349	—	475	110	
16.6	p	16	1657	781	307	—	473	110	
	p	17	1670	783	381	—	472	111	
	p	18	1679	1042	410	—	500	112	
16.8	d	9	1690	308	368	378	498	111	
	d	10	1672	572	423	423	469	116	
	p	19	1692	822	313	—	441	112	
	p	20	1699	928	211	—	469	110	
17.0	d	11	1712	473	361	352	478	109	
	d	12	1712	732	373	360	467	109	
	p	21	1700	928	218	—	454	107	
17.2	d	13	1711	579	417	403	457	106	
	d	14	1729	668	312	284	463	107	
17.4	d	15	1747	511	218	217	463	107	
	p	22	1744	607	366	—	469	109	
	p	23	1740	1042	393	—	462	113	
17.6	d	16	1753	257	432	422	483	118	
	p	24	1770	890	347	—	463	117	
17.8	d	17	1778	713	413	414	469	111	
	d	18	1792	892	348	383	460	112	
	d	19	1780	898	259	259	458	111	
	p	25	1791	946	408	—	459	112	
	d	20	1783	999	429	437	458	117	
18.0	d	21	1803	376	423	433	483	117	
	d	22	1799	469	294	292	478	114	
	p	26	1810	699	368	—	462	113	
18.2	p	27	1829	272	383	—	478	113	
	d	23	1821	1167	337	321	461	116	
	d	24	1822	469	375	359	466	118	

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1930phae.proj..12760

d-Pk	Defl-Pk	Defl-Pk	Red Defl	Red Defl	Mag.	L.No.
361	288	—	797	—		1166 v
365	239	—	655	—		1251 r
363	197	—	543	—		
361	240	—	747	—		1242 v
388	298	—	768	—		
384	252	237	650	613	6.98, 6.83	
353	307	307	870	870	8.09, 8.08	
329	201	—	610	—		1279 v
359	101	—	282	—		
369	252	243	684	660	7.09, 7.01	
358	264	251	736	700	7.28, 7.15	
347	111	—	320	—		
351	311	297	885	845	8.21, 7.90	
356	205	177	575	497	6.68, 6.91	
356	111	110	312	309	5.74, 5.72	
360	257	—	715	—		1109 v
349	280	—	802	—		118 v
370	319	309	863	835	8.02, 7.83	
346	230	—	665	—		62 v
352	202	203	575	576	6.68, 6.69	
348	236	271	678	779	7.07, 7.53	
347	148	148	426	426	6.15, 6.15	
347	296	—	853	—		2055 x
341	306	320	896	938	8.28, 8.68	
366	306	316	836	865	7.83, 8.04	
364	180	178	495	490	6.41, 6.39	
349	255	—	730	—		
365	270	—	740	—		926 x
345	221	205	640	595	6.93, 6.75	
348	257	241	737	691	7.30, 7.12	

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1930phae.proj.12750

Kap-RH 1920 — April 28, 1930

Strip	Class	Star	y	x	Δyll	Δyll	cl	dk	Volts
	p	28	1820	1176	283	—	470	126	
	p	29	1831	1312	350	—	471	140	
18.4	d	25	1840	335	329	320	509	140	
18.6	d	26	1862	347	463	477	507	133	
	d	30	1875	453	413	—	489	130	
	d	27	1875	764	372	362	472	128	
	p	31	1859	980	415	—	474	129	
18.8	d	28	1882	611	384	378	472	127	
	d	29	1881	800	367	360	420	124	
	d	30	1890	1097	329	323	464	128	
19.0	d	31	1912	461	274	277	477	128	
	d	32	1910	676	309	281	468	129	
	d	33	1899	1082	343	328	469	129	
	d	34	1892	1180	379	357	463	124	
19.2	d	35	1930	192	428	413	508	129	
	d	36	1939	1001	327	314	470	126	
	p	32	1923	1042	269	—	452	123	
	p e	33	1920	1304	201	—	448	127	
19.4		1s	1942	793	153	—	451	127	
		1	1929	429	170	—	487	127	
		2	—	—	207	—	472	128	
		3	—	—	249	—	466	131	
		4	—	—	244	—	482	130	
		5	—	—	310	—	478	130	
		6	—	—	361	—	476	132	
		7	—	—	383	—	482	131	495
		8	—	—	422	—	467	133	
Jmc April 1930		1s	1942	820	170	—	523	160	5.02
		1	1929	459	182	—	560	165	
		2	—	—	229	—	545	162	

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1930phae.proj.12760

d-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
344	157	—	456	—		183 x
331	210	—	635	—		206 x
369	189	180	513	487	6.47, 6.38	
374	330	344	880	920	8.17, 8.52	
359	283	—	787	—		948 v
347	244	234	710	680	7.19, 7.07	
35.	292	—	819	—		
345	257	237	745	727	7.33, 7.25	
296	243	236	821	797	7.15, 7.60	
336	201	195	597	580	6.77, 6.71	
349	146	149	419	426	6.11, 6.15	
339	174	152	514	448	6.47, 6.23	
340	214	199	630	585	6.89, 6.72	
339	255	223	754	659	7.39, 7.00	
385	305	290	791	755	7.55, 7.38	
344	201	188	585	547	7.23, 6.59	
329	146	—	444	—		
321	74	—	230	—		239 x
324	26	—	80	—		
360	43	—	120	—		
344	79	—	230	—		
335	118	—	352	—		
352	117	—	324	—		
348	180	—	516	—		
344	229	—	665	—		
351	252	—	717	—		
334	289	—	865	—		
363	10	—	28	—		
395	17	—	43	—		
383	67	—	175	—		

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1930phae.proj.12750

FMC R+ 1920 Apr. 29, 1930

Strip	Class	Star	Y	X	Dyff	Dyff	Cl	Dk	Volts
		3	—	—	263	—	530	169	
		4	—	—	295	—	541	169	
		5	—	—	340	—	542	170	
		6	—	—	422	—	541	170	
		7	—	—	445	—	547	170	
		8	—	—	480		539	170	
19.4	f	34	1942	271	479	—	562	169	
	f	35	1950	1175	380	—	540	173	
19.6	f	36	1971	680	460	—	542	171	
19.8	f	37	1980	752	493	461	540	170	
	f	38	1985	1171	470	473	528	170	
	f	39	1990	1298	466	450	525	170	
20.0	f	40	2003	900	435	430	529	170	
	f	41	2001	937	480	460	519	170	
	f	42	2002	1018	453	445	538	170	
	f	43	2009	1240	469	472	525	172	
	f	37	2000	1238	442	—	528	178	
	f	38	2000	1392	382	—	510	172	
20.2	f	44	2032	870	440	410	535	170	
20.4	f	45	2049	439	441	490	568	180	
	f	46	2049	605	200	300	550	180	
	f	39	2045	1132	382	—	540	188	
20.6	f	40	2050	1154	383	—	555	192	
20.8	f	41	2090	1320	431	—	557	195	
21.0	f	47	2108	310	488	460	572	190	
	f	48	2100	650	420	408	560	189	
	f	49	2110	1040	430	432	550	190	
	f	42	2111	1190	497	—	547	181	
21.2	f	43	2120	360	408	—	563	182	
	f	44	2131	1020	445	—	541	180	

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1930phae.proj.12750

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
361	94	—	260	—		
372	126	—	338	—		
342	170	—	456	—		
371	252	—	680	—		
377	275	—	730	—		
369	310	—	840	—		
393	310	—	790	—		892 x
367	207	—	565	—		240 ✓
371	289	—	780	—		979 x
370	323	291	873	785	7.83, 7.53	
358	300	303	840	845	7.73, 7.74	
355	296	280	835	790	7.70, 7.55	
359	265	260	737	725	7.36, 7.32	
349	310	290	896	830	7.90, 7.69	
368	283	275	740	747	7.48, 7.39	
353	294	300	840	850	7.73, 7.76	
350	264	—	755	—		264 x
338	210	—	620	—		279
365	270	240	740	658	7.37, 7.08	
388	261	250	671	645	7.12, 7.03	
370	120	120	324	324	5.89, 5.89	
352	194	—	550	—		279 ✓
363	191	—	525	—		294 ✓
362	236	—	652	—		297 x
382	298	270	780	705	7.52, 7.23	
371	231	219	623	590	6.95, 6.83	
360	240	242	666	672	7.09, 7.12	265 ↓
366	256	—	700	—		
381	226	—	594	—		805 ✓
361	265	—	735	—		338 ✓

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1930phae.proj.12750

FMC RH 1920 Apr. 29, 1930

Strip	class	star	y	x	Dyp	Dyp	cc	Sh	Vert
21.2	f	50	2130	1326	339	322	525	182	
		18	1942	820	190	—	538	180	
		1	1929	459	210	—	565	180	
		2	—	—	240	—	551	181	
		3	—	—	270	—	532	178	
		4	—	—	322	—	551	181	
		5	—	—	361	—	541	181	
		6	—	—	420	—	550	182	
		7	—	—	460	—	553	182	
		8	—	—	508	—	537	185	
		Sgp- RH 1920- April 29, 1920							
		10	1942	820	209	—	563	198	510
		1	1929	459	229	—	582	200	
		2	—	—	264	—	573	203	
		3	—	—	300	—	564	203	
		4	—	—	332	—	580	212	
		5	—	—	362	—	571	203	
		6	—	—	421	—	567	196	
		7	—	—	451	—	581	200	
		8	—	—	528	—	557	200	
21.4	f	51	2142	267	538	540	597	198	
21.6	p	45	2157	328	493	—	589	200	
	f	52	2167	822	522	512	566	204	
	p	46	2163	971	401	—	573	207	
	f	53	2160	1000	458	443	569	208	
21.8	f	54	2180	253	269	275	600	208	
	f	55	2180	391	536	522	603	210	
	p	47	2180	695	421	—	578	211	
	f	56	2190	988	460	428	577	211	
22.0	p	48	2203	379	542	~~543~~	573	211	

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1930phae.proj.12760

d-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
343	157	140	457	407	6.36, 6.18	
358	10	—	28	—		
385	30	—	78	—		
340	59	—	160	—		
954	92	—	260	—		
340	141	—	380	—		
360	180	—	500	—		
368	238	—	646	—		
371	278	—	750	—		
352	323	—	916	—		
365	11	—	30	—		
382	29	—	76	—		
370	61	—	165	—		
361	97	—	268	—		
368	120	—	326	—		
368	159	—	433	—		
371	225	—	605	—		
381	251	—	660	—		
357	323	—	905	—		
399	340	342	852	854	8.18, 8.20	
389	293	—	753	—		790 v
362	318	308	880	850	8.31, 8.18	
366	194	—	530	—		238 x
361	250	235	693	651	7.50, 7.32	
392	61	67	156	171	5.11, 5.22	
393	323	312	821	795	8.05, 8.43	
367	210	—	573	—		627 v
366	249	212	680	580	7.45, 7.01	
382	331	—	865	—		754 x

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1930phae.proj.12750

DGP-RH 1920 - April 29, 1920

Comp	class	star	y	x	Dyy	Dyx	dy	Dx	Volt
	p	49	2197	463	547	—	597	211	
		57	.2201	520	532	521	578	212	
		58	2198	630	424	421	584	210	
		59	2200	1249	517	531	569	208	
22.2		60	2230	277	492	470	602	211	
		61	2228	700	539	528	568	204	
	p	50	2222	1077	537	—	601	218	
		62	2228	1168	259	278	573	212	
		63	2229	1213	401	383	581	214	
		64	2220	1237	392	400	570	209	
		65	2230	1262	471	457	568	209	
22.4		66	2241	679	489	503	571	204	
	p	51	2248	690	482	—	558	202	
		67	2248	1330	467	448	561	211	
22.6	p	52	2262	289	520	—	602	207	
	p	53	2261	499	468	—	592	204	
		68	2259	617	412	378	563	202	
		69	2271	766	514	521	577	209	
	p	54	2260	849	524	—	573	205	
		70	2259	853	547	517	583	208	
22.8	p	55	2289	653	389	—	577	198	
		71	2280	758	518	518	564	193	
		72	2281	1129	428	423	568	197	
23.0		73	2303	762	508	522	562	189	
		74	2310	949	481	479	570	191	
	p	56	2299	1009	500	—	552	192	
		75	2305	1266	279	283	552	189	
23.2	p	57	2322	501	585	—	573	191	
	p	58	2337	603	431	—	565	190	
		76	2321	782	313	304	547	183	

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1930phae.proj.12750

Cl-Dk	Diff-Dk	Diff-Dk	Red Diff	Red Diff	Mag	L.No.
386	336	—	870	—		748 ✓
366	320	309	845	845	8.29, 8.14	
374	214	211	543	565	6.99, 6.95	
361	309	323	856	895	8.20, 8.36	
391	281	259	719	663	7.60, 7.37	
364	335	324	920	890	8.47, 8.35	
383	319	—	833	—		364 x
361	47	66	130	183	4.91, 5.28	
367	187	169	509	460	6.70, 6.50	
361	183	191	506	528	6.68, 6.73	
359	262	248	730	690	7.66, 7.48	
367	285	299	776	815	7.85, 8.03	
356	280	—	785	—		601 ✓
350	256	237	730	676	7.65, 7.42	
395	313	—	793	—		763 x
388	264	—	680	—		#
361	210	176	580	487	7.01, 6.61	
374	311	318	833	850	8.09, 8.18	
368	319	—	865	—		625 ✓
375	339	309	905	825	8.42, 8.06	↓
379	191	—	505	—		
371	325	325	875	875	8.29, 8.29	
366	231	226	630	616	7.22, 7.16	
373	319	333	855	894	8.19, 8.37	
379	290	288	765	760	7.82, 7.78	
360	308	—	855	—		425 ✓
363	90	74	248	204	5.58, 5.40	
382	314	—	822	—		688 ✓
375	241	—	644	—		642 ✓
364	130	121	357	332	6.06, 5.96	

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1930phae.proj.12750

HgP — RH 1920 — April 29, 1930

Strip	Class	Star	Y	X	Dyel	Dyf	Cl	Dk	Pats
23.4	p	59	2337	602	422	—	567	188	
		77	2350	856	312	303	557	190	
		78	2350	1230	368	362	558	191	
23.6		79	2357	308	535	533	592	188	
		80	2368	431	502	499	588	187	
		60	2373	491	467	—	573	193	
		61	2369	647	390	—	572	193	
		62	2373	1001	467	—	569	195	
		63	2372	1103	443	—	569	198	
		81	2377	1122	258	269	562	190	
23.8		82	2383	679	356	349	570	190	
		64	2378	698	453	—	564	190	
		65	2380	733	420	—	568	190	
		66	2390	740	517	—	572	192	
		83	2389	1079	409	399	506	190	
		84	2390	1141	472	451	577	200	
24.0		85	2407	829	480	468	582	201	
		86	2402	913	526	531	568	200	
		87	2404	1013	508	497	578	198	
		67	2408	1118	357	—	561	194	
		10	1942	820	204	—	541	191	
		1	1929	459	220	—	552	197	
		2	—	—	259	—	560	197	
		3	—	—	293	—	543	198	
		4	—	—	323	—	523	192	
		5	—	—	355	—	548	197	
		6	—	—	427	—	548	193	
		7	—	—	433	—	560	200	
		8	—	—	503	—	547	200	511

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. NO.
379	234	—	618	—		642 ✓
364	122	113	332	308	5.96, 5.85	
364	172	171	468	466	6.63, 6.52	
404	347	345	860	855	8.22, 8.20	
401	315	312	785	780	7.89, 7.87	
380	274	—	720	—		688 ✓
379	197	—	520	—		
374	272	—	726	—		
341	245	—	660	—		420 x
372	68	73	183	196	5.26, 5.33	
380	166	159	436	418	6.39, 6.31	
374	263	—	704	—		
378	230	—	608	—		587 ✓
380	325	—	855	—		
316	219	209	693	661	7.50, 7.35	
377	272	251	720	666	7.61, 7.38	
381	279	267	731	701	7.67, 7.53	
368	326	331	885	900	8.33, 8.39	
380	310	299	815	786	8.03, 7.89	
367	163	—	445	—		426 x
350	13	—	37	—		
355	23	—	65	—		
363	62	—	171	—		
345	95	—	274	—		
330	130	—	394	—		
351	158	—	450	—		
355	234	—	660	—		
360	233	—	647	—		
347	303	—	875	—		

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1930phae.proj.12750

2d5 — R.A. 1920 — April 20, 1920

Strip	Class	Star	y	x	Dyff	Dxff	cl	Dk	Watts
		10	1942	771	192	—	522	187	500
		1	1929	408	210	—	542	188	
		2	—	—	239	—	532	188	
		3	—	—	269	—	527	189	
		4	—	—	279	—	492	187	
		5	—	—	341	—	522	183	
		6	—	—	388	—	529	183	
		7	—	—	415	—	542	190	
		8	—	—	501	—	523	192	
24.2	p	68	2439	389	473	—	573	190	
	p	88	2428	572	358	355	558	200	
	p	69	2421	1050	507	—	559	200	
24.4	p	89	2440	776	520	540	556	203	
	p	90	2440	788	517	519	560	202	
24.6	p	70	2469	343	482	—	591	198	
	p	91	2460	571	488	474	569	200	
	p	71	2460	637	500	—	568	201	
	p	72	2470	942	353	—	567	200	
	p	92	2458	948	464	469	569	198	
	p	93	2470	964	461	431	577	201	
	p	73	2471	994	463	—	560	201	
	p	94	2469	1049	537	530	573	201	
24.8	p	95	2489	511	507	506	582	207	
	p	74	2480	637	536	—	581	209	
	p	75	2499	761	476	—	578	210	
	p	76	2481	849	526	—	573	209	
25.0	p	77	2511	429	237	—	582	201	
	p	96	2500	487	480	528	587	203	
	p	78	2509	460	504	—	589	207	
	p	79	2508	773	300	—	583	210	

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1930phae.proj.12750

Cl-Dk	Defl Dk	Defl Dk	Red Defl	Red Defl	Mag	L. No.
335	5	—	15	—		
354	22	—	62	—		
344	51	—	148	—		
338	80	—	236	—		
305	92	—	300	—		
339	158	—	466	—		
346	205	—	593	—		
352	225	—	640	—		
331	309	—	935	—		
383	283	—	740	—		681 x
358	158	155	440	434	6.49, 6.47	
359	307	—	855	—		
353	317	337	900	955	8.31, off curve	
358	315	317	880	885	8.23, 8.27	
393	284	—	724	—		683 x
369	288	274	780	744	7.85, 7.71	
367	299	—	815	—		
367	153	—	416	—		479 x
371	266	271	718	730	7.60, 7.65	
376	260	230	690	610	7.49, 7.16	
359	262	—	730	—		457 x
372	336	329	904	885	8.35, 8.25	
375	300	299	800	796	7.92, 7.91	
372	327	—	880	—		
368	266	—	724	—		536 x
364	317	—	870	—		515 x
381	36	—	95	—		659 x
384	277	325	720	845	7.61, 8.09	
376	297	—	790	—		647 x
373	90	—	240	—		536 x

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Dyf-R4 1920 - April 30, 1930

Step	Class	Star	y	x	Dyf	Dyf	cc	dk Plts	
	f	97	2503	883	308	304	581	210	
	f	98	2500	892	501	488	577	210	
25.2	p	80	2530	378	508	—	592	209	
	f	99	2521	882	469	449	570	203	
	p	81	2520	894	503	—	572	201	
25.4	f	100	2532	811	501	499	580	206	
25.8	f	101	2580	598	490	478	577	204	
	p	82	2588	969	520	—	580	202	
26.0	f	102	2610	834	505	486	582	200	
	f	103	2600	863	490	467	578	202	
	p	83	2600	933	407	—	575	200	
		10	1942	771	214	—	533	211	
Plate		1	1929	408	233	—	557	207	
finished		2	—	—	260	—	550	209	
		3	—	—	290	—	540	209	
		4	—	—	311	—	532	211	
		5	—	—	349	—	542	210	
		6	—	—	413	—	543	213	
		7	—	—	437	—	552	211	
		8	—	—	480	—	533	212	490

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1930phae.proj.12750

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
371	98	97	264	262	5.80, 5.79	
367	291	278	793	760	7.91, 7.76	
383	299	—	780	—		
367	266	246	725	670	7.63, 7.42	
371	302	—	815	—		
374	295	293	789	785	7.87, 7.85	
373	286	274	765	735	7.78, 7.67	
378	318	—	840	—		
382	305	286	799	750	7.93, 7.73	
376	288	265	765	705	7.78, 7.55	
375	207	—	553	—		
322	3	—	9	—		
350	26	—	74	—		
341	51	—	150	—		
331	81	—	245	—		
321	100	—	312	—		
332	139	—	417	—		
330	200	—	605	—		
341	226	—	663	—		
321	268	—	835	—		

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1930phae.proj.12750

continued to BK 75 p. 218

XP - RV 1915 — May 17, 1920

Strip	Class	Star	y	b	Dyy	Dyz	cc	Dk	Volts
		10	2035	703	180	—	770	181	905
		1	1830	403	193	—	782	182	
		2	—	—	223	—	757	178	
		3	—	—	243	—	753	180	
		4	—	—	273	—	769	180	
		5	—	—	302	—	763	179	
		6	—	—	402	—	791	181	
		7	—	—	433	—	790	183	
		8	—	—	584	—	751	182	
23.2	p	108	2330	110	203	—	809	182	
	l	109	2337	173	702	693	792	187	
	p	109	2320	288	660	—	793	183	
	p	110	2325	349	681		798	190	
	p	111	2331	367	519	—	793	190	
	p	112	2330	528	663	—	800	188	
	p	113	2322	617	671	—	799	188	
	p	114	2320	921	537	—	767	182	
	l	110	2330	1162	490	481	790	189	
23.4	p	115	2340	142	517	—	820	183	
23.4	p	116	2352	307	683	—	797	183	
	l	111	2340	390	713	701	784	179	
	l	112	2353	873	650	650	773	183	
	p	117	2349	997	658	—	773	190	
	l	113	2350	1058	660	653	771	183	
	l	114	2339	1090	600	600	769	188	
23.6	p	118	2358	398	457	—	806	183	
	p	119	2370	399	622	—	808	182	
	p	120	2359	470	611	—	797	183	
	l	115	2358	627	628	638	800	182	
	p	131	2361	719	603	—	789	185	

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1930phae.proj.12750

cc-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
589	-1	—	—	—		
600	11	—	18	—		
579	45	—	78	—		
573	63	—	110	—		
589	63	—	107	—		
584	123	—	210	—		
610	221	—	362	—		
607	250	—	412	—		
569	402	—	705	—		
627	21	—	33	—		660 x
605	515	506	850	836	off curve, off curve	
610	477	—	783	—		
608	491	—	806	—		
603	329	—	545	—		567 x
612	475	—	776	—		518 x
611	483	—	790	—		
585	155	—	265	—		294 v
601	301	292	500	485	7.62, 7.56	
637	334	—	524	—		647 x
614	500	—	815	—		627 v
605	534	522	880	862	off curve, off curve	
590	467	467	791	791	off curve	
583	468	—	805	—		570
588	477	470	810	800	off curve	
581	412	412	706	706	8.36, 8.36	
623	274	—	440	—		570 v
626	440	—	704	—		
614	428	—	698	—		
618	446	456	720	736	8.42, 8.48	
604	418	—	694	—		

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1930phae.proj.12750

Exp - RH 1915 – May 17, 1930

Strip	Class	Star	y	x	Dyll	Dyll	a	Dk	Tab
	p	122	2367	721	640	—	788	183	
	p	123	2343	916	622	—	764	181	
	p	124	2373	929	500	—	766	183	
	p	116	2362	1181	611	590	780	190	
	p	117	2362	1144	628	606	772	190	
	p	125	2379	1157	632	—	783	191	
23.8	p	126	2388	147	686	—	809	188	
	p	127	2390	489	613	—	797	189	
	p	118	2387	899	647	622	788	189	
	p	128	2389	1129	683	—	772	188	
	p	129	2390	7160	510	—	782	189	
24.0	p	119	2412	143	682	678	820	188	
	p	130	2405	170	658	—	823	187	
	p	131	2400	316	564	—	808	183	
	p	132	2400	412	604	—	810	183	
	p	133	2408	772	622	—	782	189	
	p	120	2480	871	320	320	768	188	
	p	121	2398	887	577	556	762	186	
		10	2395	703	192	—	757	190	
		1	1830	403	200	—	777	191	
		2	—	—	230	—	749	191	
		3	—	—	257	—	760	198	
		4	—	—	254	—	772	192	
		5	—	—	319	—	767	190	
		6	—	—	420	—	787	192	
		7	—	—	437	—	793	191	
		8	—	—	577	—	762	193	52

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red. Defl	Mag	L.No.
605	457	—	755	—		
583	441	—	756	—		
583	317	—	544	—		
590	421	400	713	677	8.40, 8.29	
582	438	416	755	716	8.55, 8.42	
592	441	—	745	—		
621	498	—	804	—		632 x
608	424	—	695	—		
599	458	433	765	721	8.58, 8.43	
584	495	—	850	—		
593	321	—	543	—		
632	494	490	780	775	8.64, 8.63	
636	471	—	740	—		629 x
625	381	—	609	—		588 x
627	421	—	670	—		
593	433	—	730	—		
580	132	132	228	228	6.55, 6.55	
576	391	370	677	642	8.26, 8.14	
567	2	—	3	—		
586	9	—	15	—		
558	39	—	70	—		
562	59	—	105	—		
580	65	—	112	—		
574	126	—	220	—		
595	228	—	382	—		
602	246	—	408	—		
569	384	—	675	—		

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1930phae.proj.12750

Mgr. RA 1915 – May 17, 1930

Strip	Class	Star	Y	X	Defl	Defl	Cl	Dk	Rds
		12	2035	724	138	—	762	139	510
		1	1820	722	149	—	767	133	
		2	—	—	201	—	743	139	
		3	—	—	228	—	740	135	
		4	—	—	210	—	768	137	
		5	—	—	301	—	750	138	
		6	—	—	427	—	778	139	
		7	—	—	410	—	772	139	
		8	—	—	560	—	748	139	
24.2	f	122	2424	430	643	620	779	141	
	p	134	2427	457	650	—	793	141	
	p	135	2432	482	708	—	792	141	
	f	123	2421	641	650	661	770	142	
	p	136	2431	697	580	—	771	141	
	p	137	2428	1071	402	—	712	141	
24.4	f	124	2449	439	533	513	798	141	
24.6	f	125	2459	294	564	532	806	142	
	f	126	2467	500	277	279	800	142	
	p	138	2470	570	690	—	796	142	
	f	127	2458	585	630	623	799	142	
	f	128	2461	809	670	660	780	142	
	f	129	2460	953	690	720	780	144	
24.8	p	139	2495	422	542	—	809	147	
	f	130	2480	523	716	733	789	147	
	f	131	2489	539	507	490	787	148	
	p	140	2492	649	529	—	790	149	
	p	141	2481	871	569	—	779	149	
	f	132	2487	891	460	422	793	148	
25.0	f	133	2499	393	387	398	808	143	
	p	142	2011	418	212	—	799	143	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red. Defl	Mag	L. No
629	5	—	8	—		
634	16	—	25	—		
610	68	—	112	—		
605	93	—	154	—		
631	73	—	116	—		
612	163	—	266	—		
639	288	—	450	—		
633	271	—	427	—		
604	421	—	697	—		
638	502	479	785	750	off curve, off curve	
652	509	—	780	—		
651	567	—	871	—		529 x
628	508	519	816	825	off curve	
630	439	—	696	—		425 v
571	261	—	456	—		297 x
657	392	372	596	566	7.86, 7.73	
664	422	390	635	587	8.02, 7.80	
658	135	137	205	208	6.15, 6.16	
654	548	—	840	—		
657	488	481	743	731	8.47, 8.43	
638	528	518	827	814	off curve	
636	546	546	866	905	off curve	
662	395	—	597	—		341 v
642	569	586	886	914	off curve	
639	359	342	563	535	7.72, 7.60	
641	380	—	593	—		451 v
630	420	—	666	—		
625	312	274	498	438	7.45, 7.18	
665	244	255	366	383	6.88, 6.96	
656	69	—	105	—		536 x

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1930phae.proj.12750

XP-C #1915 — May 19, 1930

Strip	Class	Star	y	x	Δyfl	Δyfl	Cl	Dk	Plts
	f	134	2505	804	320	321	788	143	
	f	135	2516	963	611	628	778	147	
	f	136	2509	1109	645	638	780	148	
25.2	f	137	2518	217	547	527	797	148	
	f	138	2528	491	584	575	800	148	
	f	139	2530	442	288	277	799	148	
	p	143	2530	504	652	—	808	149	
	p	144	2522	512	649	—	779	150	
	p	145	2520	518	707	—	792	149	
	p	146	2521	607	667	—	798	150	
25.4	p	147	2551	309	690	—	817	150	
	p	148	2550	613	661	—	787	150	
	p	149	2549	737	516	—	789	150	
	f	140	2540	1042	377	360	782	148	
25.6	p	150	2570	399	688	—	798	150	
	p	151	2560	461	510	—	807	150	
	f	141	2569	469	681	682	808	152	
	f	142	2540	539	471	472	800	151	
	p	152	2570	590	312	—	791	151	
25.8	p	153	2580	269	680	—	818	151	
	f	143	2575	284	692	691	817	151	
	f	144	2581	354	722	722	801	151	
	p	154	2589	521	680	—	811	153	
	p	155	2589	708	651	—	793	152	
	p	156	2580	728	300	—	781	151	
	f	145	2580	948	658	651	714	152	
26.0	p	157	2607	469	669	—	817	152	
	p	158	2608	632	530	—	803	152	
	f	146	2609	797	437	440	793	152	
	f	147	2605	803	697	722	807	152	

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1930phae.proj.12750

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
645	177	178	274	276	6.52, 6.53	
631	464	481	735	761	8.46, off curve	
632	497	490	787	775	off curve	
649	399	379	615	584	7.93, 7.80	
652	436	427	670	655	8.16, 8.10	
651	140	129	215	198	6.20, 6.10	
659	503	—	761	—		515 x
629	499	—	790	—		513 x
643	558	—	870	—		
648	514	—	797	—		
667	540	—	816	—		442 x
637	511	—	801	—		↓
639	366	—	573	—		420 x
634	229	212	362	334	6.88, 6.75	
648	538	—	830	—		
657	360	—	547	—		526 x
656	529	530	805	806	off curve	
649	320	321	493	494	7.43, 7.44	
640	161	—	252	—		479 x
667	529	—	793	—		
666	541	540	811	810	off curve	
650	571	571	877	877	off curve	
658	527	—	800	—		
641	495	—	779	—		
630	149	—	236	—		↓
562	506	499	903	889	off curve	426 x
665	517	—	777	—		514 x
651	378	—	580	—		457 x
641	285	288	445	450	7.22, 7.24	
655	545	570	832	870	off curve	

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1930phae.proj.12750

XJ2-RH1915 — May 19, 1920

Strip	Class	Star	y	x	Dyll	Dyll	Cl	St	Volts
	p	159	2601	869	659	—	802	153	
26.2	p	160	2629	491	600	—	800	151	
	p	161	2620	582	659	—	803	152	
	f	148	2620	829	669	650	813	153	
26.4	p	162	2640	382	548	—	809	153	
	f	149	2640	411	337	341	810	153	
	f	150	2640	758	487	460	809	153	
	f	151	2651	779	397	390	802	152	
	f	152	2644	801	705	689	792	153	
26.6	p	163	2671	513	462	—	797	152	
	f	153	2670	559	269	260	809	152	
	f	154	2662	672	693	681	798	153	
	p	164	2670	718	572	—	800	153	
26.8		1A	2035	724	160	—	778	154	
		1	1830	422	170	—	782	153	
		2	—	—	212	—	750	153	
Plate		3	—	—	243	—	742	153	
Invalid		4	—	—	228	—	765	153	
		5	—	—	320	—	760	155	
		6	—	—	410	—	783	154	
		7	—	—	421	—	783	157	
		8	—	—	576	—	749	158	500

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1930phae.proj.12750

Defl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
649	506	—	780	—		
649	449	—	691	—		509 x
651	504	—	780	—		
660	516	497	782	755	off curve	
656	395	—	602	—		534 x
654	184	188	280	286	6.53, 6.57	
656	334	307	508	467	7.49, 7.31	
650	245	238	376	366	6.93, 6.89	
639	552	536	862	840	off curve	
645	310	—	480	—		498 x
654	117	108	178	164	5.99, 5.91	
640	540	528	844	825	off curve	
647	419	—	647	—		
624	6	—	10	—		
629	17	—	27	—		
594	59	—	99	—		
589	90	—	153	—		
612	75	—	123	—		
605	165	—	272	—		
629	256	—	406	—		
626	264	—	422	—		
591	418	—	708	—		

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1930phae.proj.12750

continued from Book MM, p. 168 RH 2165 FMc June 23, 1930

Temp.	Class	Star	y	x	Dyff	Dyff	α	Δ	Notes
		13	2080	798	260	—	830	250	
		1	1739	666	340	—	830	252	
		2	—	—	395	—	837	252	
		3	—	—	439	—	840	253	
		4	—	—	490	—	830	255	
		5	—	—	523	—	844	255	
		6	—	—	580	—	838	255	
		7	—	—	611	—	830	258	
		8	—	—	710	—	832	258	
20.2	f	69	2028	350	544	—	849	259	
	f	49	2038	698	500	483	841	259	
	f	50	2038	850	699	700	850	259	
	fp	70	2029	1200	672	—	859	260	
20.4	f	51	2050	250	468	470	849	260	
	f	52	2059	409	450	448	830	261	
	f	71	2055	413	437	—	830	260	
	f	72	2050	530	442	—	825	261	
	f	53	2041	597	632	620	837	261	
	f	54	2057	719	701	710	840	262	
	f	55	2040	1210	640	625	860	263	
20.6	f		2071	468	595	—	839	262	
	f	56	2067	649	510	505	838	262	
	fp	73	2070	1228	600	—	849	265	
	2k gl								505
20.8	p	74	2080	339	450	—	828	264	
	p	75	2090	399	428	—	832	266	
	pf	57	2091	609	622	617	840	267	
	pf	58	2090	880	640	638	839	269	
	p	76	2082	893	673	—	855	268	
	pf	59	2080	908	660	620	843	269	

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1930phae.proj.12750

cl-dk	dyf-dk	dyf-dk	red dyf	red dyf	Mag	L No.
580	10	—	17	—		
578	88	—	152	—		
585	140	—	240	—		
587	186	—	316	—		
575	235	—	407	—		
589	268	—	455	—		
583	325	—	557	—		
572	353	—	617	—		
584	452	—	774	—		
590	285	—	483	—		642 ✓
582	241	224	415	386	6.45, 6.24	
591	440	441	745	746	8.23, 8.23	
599	212	—	354	—		8 ✗
589	208	210	352	356	6.02, 6.04	
569	189	187	332	328	5.83, 5.78	
570	177	—	310	—		625 ✓
564	181	—	321	—		627 ✓
576	171	159	296	276	5.50, 5.37	
578	439	448	759	775	8.29, 8.32	
597	377	362	630	605	7.80, 7.65	
577	333	—	576	—		601 ✓
576	248	243	430	422	6.59, 6.52	
584	235	—	403	—		23 ✗
561	286	—	507	—		606 ✓
566	496	—	875	—		
573	455	440	795	766	off curve, 8.30	
570	471	469	923	920	off curve	
577	505	—	875	—		
574	491	451	855	785	off curve	

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1930phae.proj.12750

KJP – RH 2165 June 23, 1930

Slip	Class	Star	y	x	Diff	Diff	cl	Dh	Volt
		60	2080	1089	770	782	860	269	
		61	2090	1107	710	691	858	269	
	p	77	2097	1131	802	—	863	270	
		62	2084	1141	718	714	860	269	
		63	2079	1171	780	772	853	269	
21.0		64	2110	221	720	708	848	269	
	p	78	2110	288	762	—	842	270	
		65	2110	317	793	767	859	270	
	p	79	2110	338	748	—	850	270	
		66	2100	556	681	682	833	269	
	p	80	2101	996	657	—	859	269	
	p	81	2098	1064	822	—	850	270	
	p	82	2109	1078	871	—	856	269	
	p	83	2100	1152	733	—	860	270	
		67	2110	1271	822	809	867	270	
21.2		68	2131	198	548	572	839	270	
	p	84	2128	379	567	—	842	270	
		69	2119	499	720	718	827	270	
		70	2125	601	782	760	843	270	
	p	85	2119	809	692	—	850	271	
		71	2122	917	772	816	858	271	
		72	2130	954	592	589	861	271	
		73	2130	990	565	570	853	272	
	p	86	2120	1010	787	—	862	272	
	p	87	2127	1226	523	—	860	272	
21.4	p	88	2152	269	648	—	850	272	
	p	89	2153	817	751	—	839	272	
		74	2150	1122	522	540	850	271	
21.6		75	2169	243	662	657	848	273	
	p	90	2145	355	799	—	847	272	

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1930phae.proj..12760

a - dk	dyl - dk	dyl - dk	red dyl	red dyl	Mag	L No
591	501	513	846	865-	off curve	
589	441	422	750	716	8.25, 8.13	
587	532	—	905-	—		42 X
591	449	445-	760	753	8.29, 8.26	
584	511	523	875-	895-	off curve	
579	551	543	950	935-	off curve	
572	492		859	—		
589	523	497	885-	845-	off curve	
589	478	—	812	—		
564	412	—	729	—		
590	288	—	488	—		62 ✓
580	552	—	950	—		
587	182	—	310	—		56 ✓
590	463	—	784	—		
597	552	543	922	909	off curve	
560	278	302	496	540	7.02, 7.30	
570	397	—	696	—		587 042 ✓
557	450	448	805-	804	off curve	
573	512	490	894	855-	off curve	
579	421	—	726	—		
587	501	545-	856	930	off curve	
590	321	318	543	538	7.32, 7.28	
581	293	298	504	513	7.04, 7.12	
590	515	—	873	—		
588	251	—	426	—		51 X
578	376	—	650	—		583 ✓
561	479	—	855	—		161 X
579	251	269	433.	464	6.62, 6.83	
575	389	384	676	665	8.02, 7.95	
575	461	—	800	—		576

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1930phae.proj.12750

Dyf-RH2165-June 23, 1930

Strip	class	star	y	x	Dyf	Dyf	α	Dh	Volt
	p	91	2163	361	539	—	840	271	
	p	76	2160	402	598	601	841	271	
	p	77	2163	660	382	383	841	270	
	p	78	2170	781	776	760	847	271	
	p	92	2160	997	727	—	859	271	
21.8	p	79	2185	503	666	689	837	271	
	p	80	2190	751	712	720	852	271	
	p	81	2191	1002	730	721	853	271	
22.0	p	82	2211	152	709	732	851	272	
	p	83	2200	271	726	723	852	272	
	p	84	2212	327	618	610	857	273	
	p	93	2207	350	698	—	841	273	
	p	94	2208	420	692	—	845	273	
	p	95	2201	528	762	—	848	273	
	p	85	2210	752	283	283	832	270	
	p	96	2201	1100	721	—	850	271	
22.2	p	86	2233	496	782	789	847	273	
	p	97	2223	519	722	—	840	272	
	p	98	2219	950	688	—	857	273	
	p	99	2230	1086	659	—	851	273	
22.4	p	100	2242	353	750	—	840	273	
	p	101	2242	417	700	—	851	273	
	p	87	2243	691	732	720	847	272	
	p	88	2253	863	760	747	848	273	
22.6	p	102	2261	160	762	—	853	272	
	p	89	2262	291	806	790	840	272	
	p	103	2262	559	778	—	837	274	
	p	90	2264	617	673	667	832	273	
	p	91	2272	618	789	784	830	273	
	p	92	2271	710	785	800	846	273	

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1930phae.proj.12750

cl-dk	cl-dk	dyf-dk	dyf-dk	red dyf	red dyf	LNO
569	268	—	471	—		570 ✓
570	327	330	573	580	7.50, 7.54	
571	112	113	210	211	4.45, 4.46	
576	505	489	875	846	off curve	
588	456	—	775	—		
566	395	418	700	740	8.07, 8.20	
581	441	449	756	771	8.26, 8.30	
582	459	450	790	774	off curve, 8.31	
578	487	460	845	895	off curve	
580	454	451	785	746	off curve, 8.24	
577	345	337	596	534	7.60 7.26	
568	425	—	750	—		
572	419	—	730	—		
575	489	—	850	—		
562	13	13	20	20	off curve	
579	450	—	790	—		90 ✗
574	509	516	896	900	off curve	
568	450	—	791	—		496 ✗
584	415	—	715	—		
578	386	—	670	—		118 ✓
567	477	—	839	—		
578	427	—	740	—		
575	460	448	800	731	off curve, 8.22	
575	487	474	850	826	off curve	
581	490	—	844	—		
568	534	518	939	910	off curve	
563	504	—	894	—		
559	400	394	715	705	8.14, 8.09	
557	516	571	924	915	off curve	
573	512	527	894	920	off curve	

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1930phae.proj.12750

Zgp-CH2165 — June 23, 1930

Strip	Class	Star	y	x	Defl	Defl	cl	Dk	Volts
		93	2258	1032	707	678	849	273	
		104	2267	1055	640	—	856	273	
		94	2260	1237	700	764	852	273	
22.8		95	2280	203	471	490	842	273	
		105	2280	287	637	—	845	273	
		96	2290	684	288	292	837	272	
		97	2288	1092	701	679	853	273	
		98	2280	1139	484	466	859	274	
23.0		106	2299	281	392	—	845	273	
		99	2300	440	480	504	830	273	
		100	2311	468	370	377	847	272	
		101	2300	529	647	637	847	273	
		102	2301	588	728	712	841	273	
		107	2300	654	463	—	840	273	
		108	2300	913	427	—	848	273	
		103	2310	1007	550	539	851	273	
		104	2312	1201	670	650	849	273	
23.2		105	2330	768	770	740	839	272	
		1A	2080	798	297	—	820	272	
		1	1739	666	385	—	829	272	
		2	—	—	437	—	838	272	
		3	—	—	468	—	842	272	
		4	—	—	500	—	832	273	
		5	—	—	544	—	843	273	
		6	—	—	571	—	820	273	
		7	—	—	583	—	830	273	
		8	—	—	714	—	839	276	500

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1930phae.proj.12750

el-dk	dyl-dk	dyl-dk	red dyl	red dyl	Mag	L No.
576	434	405	750	700	8.25, 8.08	
583	367	—	630	—		
579	477	491	825	850	off curve	
569	198	217	350	382	5.98, 6.21	
572	364	—	636	—		541 ✓
565	16	20	28	35	2.05, 2.61	
580	428	406	739	700	8.21, 8.09	
585	210	192	359	329	6.03, 5.78	
572	119	—	208	—		536 ✗
557	207	231	382	418	6.23, 6.49	
575	98	105	174	184	4.44, 4.60	
574	374	364	655	636	7.90, 7.81	
568	455	439	800	770	off curve, 8.31	
567	190	—	334	—		376 ✓
575	154	—	265	—		203 ✓
578	277	260	480	450	6.93, 6.71	
576	397	377	689	654	7.53, 7.90	
567	498	468	876	825	off curve	
548	25	—	45	—		
557	113	—	202	—		
566	165	—	292	—		
570	196	—	338	—		
559	227	—	407	—		
570	271	—	485	—		
547	298	—	545	—		
557	310	—	556	—		
557	438	—	779	—		

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1930phae.proj.12750

fme R+2165 June 24, 1930

Strip	Class	Star	Ay	δ	Δyll	Δδll	cc	dk Volts
		15	2880	778	260	—	905	238
		1	1739	543	370	—	888	238
		2	—	—	440	—	890	239
		3	—	—	489	—	890	239
		4	—	—	520	—	868	239
		5	—	—	580	—	883	239
		6	—	—	593	—	870	239
		7	—	—	620	—	870	240
		8	—	—	740	—	870	240
23.4	p	107	2358	260	597	—	887	240
	p	108	2345	687	626	—	875	240
	p	109	2351	1196	717	—	890	241
23.6	p	110	2370	810	660	—	879	241
23.8	p	111	2388	528	710	—	880	241
	p	112	2381	1040	537	—	881	242
24.0	f	106	2410	260	430	490	883	242
	p	113	2409	451	640	—	872	241
	p	114	2405	809	511	—	878	242
	p	115	2409	910	521	—	880	242
	f	107	2409	1022	430	440	880	242
24.2	p	116	2430	348	690	—	880	243
	p	117	2438	960	468	—	879	243
	f	108	2420	730	485	467	871	243
	f	109	2430	770	510	501	880	243
	f	110	2420	773	559	549	878	245
	p	116	2431	792	495	—	877	245
24.4	f	111	2440	377	641	652	889	245
24.6	f	112	2460	846	600	560	880	248
	f	113	2460	1137	721	702	898	248
24.8	p	117	2488	380	638	—	883	248

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1930phae.proj.12760

el-dk	dyf-dk	dyf-dk	red dyf	red dyf	Mag	L No.
667	22	—	33	—		
650	132	—	202	—		
651	201	—	310	—		
651	250	—	385	—		
629	281	—	459	—		
644	341	—	546	—		
631	354	—	570	—		
630	380	—	604	—		
630	500	—	791	—		
647	297	—	455	—		523 X
635	386	—	609	—		338 V
649	476	—	735	—		135 X
638	419	—	656	—		274 V
639	469	—	733	—		425 V
639	295	—	461	—		183 X
631	188	188	299	299	5.05, 5.05	
631	399	—	630	—		
636	269	—	580	—		279 V
638	279	—	436	—		240 V
638	188	198	296	312	5.01, 6.15	
637	447	—	701	—		
636	225	—	351	—		474 X
628	242	224	385	357	5.40, 5.49	
637	267	258	425	411	6.00, 5.90	
633	314	304	500	485	6.51, 6.42	
632	250	—	403	—		294 V
644	396	407	615	635	7.34, 7.45	
632	352	312	556	495	6.94, 6.98	
658	443	454	729	700	8.09, 7.90	
635	390	—	615	—		457 X

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1930phae.proj.12750

FMC R# 2165 June 24, 1930

Strip	class	star	y	x	Diff	Diff	d	Dh
24.8	p	118	2481	769	630	—	875	248
	p	119	2481	890	650	—	892	248
25.0	p	120	2501	493	618	—	882	248
	f	114	2518	887	730	720	879	249
	p	121	2511	1083	692	—	889	250
25.2	p	122	2522	469	477	—	877	250
	p	123	2528	643	718	—	880	250
25.4	f	115	2545	767	682	680	888	250
	p	124	2540	1000	371	—	881	250
25.8	p	125	2591	409	715	—	879	250
	p	126	2593	840	630	—	894	250
	p	127	2580	1017	470	—	891	250
26.0	f	116	2609	853	474	445	887	250
	f	117	2610	966	700	690	890	250
26.2	f	118	2630	640	718	710	878	250
	p	128	2627	950	687	—	882	250
		18	2080	778	280	—	870	207
		1	1739	543	403	—	870	250
		2	—	—	462	—	877	250
		3	—	—	490	—	885	250
		4	—	—	555	—	870	250
		5	—	—	579	—	880	250
		6	—	—	635	—	875	250
		7	—	—	650	—	879	250
		8	—	—	772	—	869	249

plate finished

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1930phae.proj.-12750

ll-dk	lyl-dk	dyl-dk	rd dyl	rd lyl	Mag	L Na
627	382	—	610	—		
644	402	—	625	—		264X
634	370	—	585	—		420X
630	471	471	749	749	8.14, 8.14	
639	442	—	692	—		206X
627	227	—	364	—		426X
630	468	—	745	—		
638	432	430	680	690	7.75, 7.81	
631	121	—	191	—		239X
629	465	—	755	—		
644	370	—	575	—		297X
641	220	—	343	—		242X
637	224	195	352	305	5.49, 5.10	
648	450	440	704	689	7.93, 7.78	
628	468	460	745	735	8.18, 8.10	
632	437	—	694	—		
619	29	—	47	—		
620	153	—	241	—		
627	212	—	338	—		
635	240	—	378	—		
620	305	—	491	—		
630	329	—	521	—		
625	385	—	600	—		
629	400	—	636	—		
620	523	—	844	—		

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1930phae.proj.12750

RH 2168 June 24, 1930 FMC

trip	class	star	y	x	Dyll	Dyl	cl	sh	Volt
		15	2020	791	408	—	929	240	
		1	1877	460	545	—	920	240	
		2	—	—	592	—	925	241	
		3	—	—	660	—	930	241	
		4	—	—	690	—	922	241	
		5	—	—	731	—	928	241	
		6	—	—	761	—	922	241	
Wrong star marked for no 7.		7	—	—	705	—	921	241	
		8	—	—	850	—	925	241	
15.4	fp	1	1548	831	830	—	935	242	
	fp	2	1559	918	717	—	937	243	
15.6	fp	3	1565	560	813	—	928	244	
	fp	4	1569	961	840	—	935	244	
15.8	fp	5	1582	540	762	—	929	242	
16.0	fp	6	1610	504	860	—	928	244	
	fp	7	1618	575	815	—	928	245	
16.2	f	1	1621	866	831	831	932	245	
16.4	fp	8	1641	878	790	—	930	246	
16.6	f	2	1678	820	353	358	917	245	
16.8	f	3	1693	533	759	770	922	246	
17.0	f	4	1710	310	730	730	920	246	
	f	5	1714	496	758	760	922	245	
	f	6	1701	609	808	803	920	245	
	fp	9	1700	795	830	—	920	244	
	fp	10	1700	1039	850	—	929	245	
	fp	11	1710	1088	810	—	929	245	
17.2	fp	12	1723	350	810.	—	918	242	
17.4	f	7	1750	660	852	870	921	246	
	fp	13	1752	887	765	—	913	245	
	fp	14	1740	908	790	—	919	245	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. No.
689	168	—	346	—		
680	305	—	449	—		
684	351	—	514	—		
689	419	—	610	—		
681	449	—	660	—		
687	490	—	721	—		
681	520	—	749	—		
684	639	—	925	—		1164+
693	588	—	850	—		1214+
694	474	—	649	—		1043+
684	569	—	834	—		1235+
691	596	—	863	—		1030+
687	520	—	755	—		
684	616	—	900	—		1044+ ↓
683	570	—	835	—		
687	586	586	851	851	7.55, 7.55	1208+ ↓
684	544	—	795	—		
672	108	113	164	168	off curve	
676	513	524	756	774	6.80, 6.96	
674	484	484	719	719	6.52, 6.52	
677	513	515	755	760	6.81, 6.82	
675	563	558	834	826	7.41, 7.34	
676	586	—	868	—		1166 ✓
684	605	—	885	—		
684	565	—	825	—		23+
676	568	—	840	—		926+
675	606	624	895	924	7.96, 8.24	
668	520	—	780	—		1242 ✓
674	545	—	810	—		1251 ✓

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1930phae.proj.12750

FMC RH 2168 June 24, 1920

Strip	class	star	x	y	Dyy	Dyy	cl	Dh
17.4	p	15	1750	1127	745	—	905	244
17.6	p	16	1770	690	795	—	903	243
	p	17	1769	884	810	—	920	243
17.8	f	8	1798	960	795	795	920	242
18.0	p	18	1840	796	860	—	918	245
	p	19	1801	911	729	—	921	245
18.2	p	20	1831	500	841	—	920	245
	f	9	1831	558	832	835	912	245
18.4	f	10	1850	309	712	718	920	245
	f	11	1859	393	629	590	918	245
	p	21	1845	1009	593	—	925	245
18.6	p	22	1860	200	840	—	920	245
	p	23	1862	730	840	—	912	245
	p	24	1864	753	798	—	913	245
19.0	p	25	1900	947	771	—	920	247
19.2	f	12	1935	569	827	827	908	245
	p	26	1927	1100	828	—	920	245
		1S	2020	791	380	—	910	245
		1	1877	460	550	—	900	245
		2	—	—	580	—	910	242
		3	—	—	665	—	915	242
		4	—	—	667	—	908	245
		5	—	—	710	—	917	245
		6	—	—	769	—	910	245
wrong star marked		7	—	—	720	—	909	243
		8	—	—	870	—	915	242

Xp RH 2168 - June 24, 1920

1S	2020	791	388	—	871	214	525
1	1877	460	509	—	875	213	
2	—	—	570	—	879	214	

Omit

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1930phae.proj.12750

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red. Defl	Mag	L. No.
661	501	—	756	—		51
660	552	—	836	—		1109
677	567	—	837	—		1246
678	553	553	812	812	7.24, 7.24	
673	615	—	915	—		1189
676	484	—	714	—		1279
675	596	—	885	—		948
667	587	590	880	882	7.82, 7.83	
675	467	473	690	697	6.33, 6.39	
643	384	345	570	513	5.48, 5.03	
680	348	—	512	—		56
675	595	—	880	—		880
667	595	—	891	—		
668	553	—	825	—		1171
673	524	—	776	—		62
663	582	582	880	880	7.81, 7.81	
675	583	—	865	—		118
665	135	—	202	—		
655	305	—	465	—		
668	338	—	505	—		
673	423	—	630	—		
663	422	—	635	—		
672	465	—	694	—		
665	524	—	786	—		
—	—	—	—	—		
673	628	—	935	—		

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1930phae.proj.12750

Zpp - R.A. 2168 - June 24, 1930.

Trip	class	Star	y	x	Dec	Diff	cl	dh
		3	—	—	656	—	883	214
		4	—	—	650	—	879	214
		5	—	—		—		
		6	—	—				
		7	—	—				
		8	—	—				

Something wrong for a while with instrument Scale requires to show

— R.A. 2168 - June 25, 1930

		12	2020	763	235	—	661	122
		1	1877	430	311	—	661	123
		2	—	—	400	—	662	127
		3	—	—	473	—	671	130
		4	—	—	450	—	667	130
		5	—	—	505	—	665	130
		6	—	—	593	—	660	130
		7	—	—	475	—	660	130
		8	—	—	630	—	668	130
19.4	f	13	1950	1029	532	540	670	132
19.6	f	14	1960	910	587	590	670	134
20.0	f/2	27	2017	269	508	—	670	138
	f/2	28	2011	970	619	—	678	138
20.2	f	15	2029	284	500	500	669	139
	f	16	2030	889	530	540	669	140
		18	2020	763	540	—	668	140
		1	1877	430	325	—	665	140
		2	—	—	395	—	669	140
		3	—	—	452	—	670	140
		4	—	—	440	—	668	140
		5	—	—	500	—	670	140
		6	—	—	560	—	670	140
		7	—	—	470	—	669	140
		8	—	—	620	—	663	140

wrong star marked

wrong star marked

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1930phae.proj.12750

Cl - dk	diff - dk	diff - dk	red diff	red diff	Mag	L No.
539	113	—	210	—		
538	188	—	350	—		
535	273	—	510	—		
541	343	—	635	—		
537	320	—	595	—		
535	375	—	701	—		
530	403	—	760	—		
538	500	—	930	—		
538	400	408	745	760	6.88, 6.99	
536	453	456	845	850	7.57, 7.59	
532	370	—	695	—		805 ✓
540	481	—	890	—		
530	361	361	680	680	6.44, 6.44	
529	390	400	737	750	6.83, 6.92	
528	105	—	199	—		
525	185	—	352	—		
529	255	—	483	—		
530	312	—	590	—		
528	300	—	568	—		
530	360	—	680	—		
530	420	—	794	—		
523	480	—	920	—		

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1930phae.proj.12750

Zpp - - R# 2168 - June 26 1920

Strip	class	star	y	t	Dyll	Dyt	cl	Dh	
		10	2020	690	232	—	710	150	520
		1	1877	357	296	—	706	152	
		2	—	—	388	—	706	157	
		3	—	—	448	—	707	157	
		4	—	—	422	—	705	157	
		5	—	—	500	—	708	158	
		6	—	—	542	—	709	159	
		7	—	—	478	—	702	160	
		8	—	—	651	—	704	160	
20.4	p	29	2038	150	582	—	706	160	
	p	30	2051	1090	500	—	711	161	
	p	31	2048	1186	572	—	680	162	
20.8	p	17	2089	502	640	658	707	167	
	p	18	2090	543	610	616	703	167	
	p	32	2098	928	448	—	709	167	
	p	19	2091	1077	573	580	711	168	
21.0	p	20	2099	337	480	470	709	169	
	p	21	2108	509	607	600	709	169	
	p	33	2098	928	463	—	711	170	
	p	22	2108	1068	590	593	713	170	
21.2	p	34	2123	263	604	—	711	171	
21.4	p	23	2151	292	530	540	704	171	
21.6	p	35	2160	1017	550	—	718	172	
21.8	p	36	2190	949	673	—	707	173	
	p	24	2183	1080	582	573	718	173	
	p	37	2190	1172	407	—	700	173	
22.0	p	38	2200	271	561	—	703	173	
	p	25	2213	849	331	344	717	173	
	p	39	2225	1213	006	—	709	177	
22.2	p	40	2228	522	541	—	707	171	

wrong star marked

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1930phae.proj.12750

Cl-dk	diff-dk	diff-dk	red diff	red diff	Mag	L No.
560	82	—	147	—		
554	144	—	260	—		
549	231	—	421	—		
550	291	—	530	—		
549	265	—	483	—		
550	342	—	620	—		
550	383	—	697	—		
—	—	—	—	—	—	—
544	491	—	905	—		790 ✓
544	422	—	775	—		183+
550	339	—	616	—		
518	390	—	754	—		
540	473	491	875	901	8.21, 8.45	
536	443	449	825	839	7.84, 7.95	
542	281	—	520	—		205 ✓
543	405	412	747	760	7.33, 7.41	
540	321	311	595	575	6.37, 6.22	
540	438	431	814	799	7.78, 7.69	
541	293	—	541	—		205 ✓
543	420	423	775	780	7.52, 7.55	
540	433	—	800	—		748 ✓
533	359	369	675	694	6.85, 6.99	
546	378	—	693	—		240 ✓
534	500	—	940	—		
545	411	400	755	735	7.34, 7.25	
527	234	—	444	—		239+
530	388	—	733	—		
544	152	171	280	314	4.85, 4.60	
532	329	—	620	—		
530	364	—	687	—		

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1930phae.proj.12750

Zgp - RH 2168 - June 26, 1930.

Strip	Class	Star	Y	X	Xdiff	ydiff	Cl	Ck	Xdiff
		26	2210	658	543	540	710	178	
		41	2231	944	526	—	719	178	
		42	2230	1057	630	—	720	179	
		27	2223	1127	663	672	720	178	
22.4		43	2255	252	620	—	713	180	
		28	2249	1097	662	682	720	180	
22.6		29	2260	293	528	533	710	180	
		44	2270	329	614	—	710	178	
		30	2271	398	622	612	711	180	
		45	2253	457	614	—	710	179	
		46	2275	817	632	—	709	180	
		47	2261	953	513	—	713	180	
22.8		48	2280	407	450	—	709	180	
		31	2280	41	582	597	709	180	
		49	2282	749	500	—	716	180	
		32	2296	970	487	500	718	180	
23.0		50	2300	222	570	—	710	182	
		51	2305	341	520	—	712	182	
		52	2314	970	621	—	721	183	
		33	2301	1100	620	608	720	183	
23.2		53	2337	153	603	—	723	183	
		34	2326	447	654	670	710	183	
		35	2339	710	535	524	720	183	
		36	2339	712	480	487	718	185	
23.4		54	2350	370	472	—	710	187	
		55	2342	1100	568	—	722	188	
		10	2020	690	243	—	707	182	
		1	1877	357	327	—	712	182	
		2	—	—	409	—	716	183	
		3	—	—	491	—	720	185	

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1930phae.proj.12750

C-dk	diff-dk	diff-dk	red diff	red diff	Mag	L No.
532	365	362	686	680	6.93, 6.89	
531	348	—	655	—		279 ✓
541	351	—	649	—		264 +
542	485	494	895	910	8.39, 8.52	
533	440	—	825	—		688 ✓
540	482	502	890	929	8.34, 8.68	
530	448	453	845	854	8.00, 8.08	
532	436	—	820	—		669 +
531	442	432	830	812	7.89, 7.79	
531	435	—	820	—		601 ✓
529	432	—	854	—		338 ✓
533	433	—	811	—		294 ✓
529	270	—	510	—		625 ✓
529	402	417	758	790	7.40, 7.60	
530	320	—	604	—		376 ✓
538	307	320	570	595	6.21, 6.36	
528	388	—	735	—		679 ✓
530	338	—	638	—		642 ✓
539	438	—	815	—		
537	437	425	815	790	7.78, 7.61	
520	420	—	806	—		681 +
527	471	487	894	925	8.39, 8.64	
537	352	341	655	635	6.74, 6.61	
533	295	302	555	567	6.11, 6.18	
523	285	—	545	—		606 ✓
534	380	—	713	—		297 +
525	61	—	116	—		
530	155	—	292	—		
533	226	—	425	—		
535	306	—	572	—		

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1930phae.proj.12750

HJP - R.A. 2168 - June 27, 1930.

Strip	Class	Star	y	x	Diff	Diff	cc	dk	Vols
		4	—	—	453	—	718	183	
		5	—	—	512	—	720	184	
		6	—	—	509	—	713	187	
wrong star marked		7	—	—	493	—	713	186	
		8	—	—	670	—	720	187	520
	HJP -	10	2020	696	159	—	608	099	520
		1	1877	962	191	—	620	100	
		2	—	—	297	—	612	101	
		3	—	—	368	—	613	102	
		4	—	—	321	—	611	102	
		5	—	—	409	—	611	103	
		6	—	—	438	—	610	103	
wrong star marked		7	—	—	256	—	603	104	
		8	—	—	559	—	607	104	
23.8	p	56	2378	417	449	—	597	108	
	p	57	2395	453	431	—	606	108	
24.2	p	37	2426	130	443	497	602	110	
	p	58	2421	167	179	—	602	110	
	p	59	2429	200	476	—	598	110	
	p	60	2420	742	543	—	606	111	
24.4	p	61	2452	380	578	—	600	112	
	p	38	2450	968	523	522	607	112	
	p	39	2453	984	429	428	610	113	
24.6	p	40	2470	183	439	441	603	113	
24.8	p	62	2488	703	507	—	609	114	
	p	41	2490	1007	430	430	609	114	
25.0	p	42	2509	637	477	473	603	116	
25.2	p	63	2530	483	523	—	602	117	
	p	64	2523	800	489	—	605	118	
	p	43	2516	900	558	559	616	119	

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1930phae.proj.12750

V-Bk	Defl-Bk	Defl-Bk	Red Defl	Red Defl	Mag.	L.No.
535	270	—	505	—		
536	328	—	610	—		
526	372	—	706	—		
—	—	—		—		
533	483	—	905	—		
509	60	—	118	—		
520	91	—	175	—		
511	196	—	384	—		
511	261	—	511	—		
509	219	—	430	—		
508	306	—	600	—		
507	335	—	660	—		
—	—	—	—	—		
503	449	—	895	—		587 ✓
489	341	—	697	—		570 ✓
498	323	—	647	—		
492	333	387	677	787	7.03, 7.41	
492	69	—	141	—		660 ?+
488	366	—	748	—		644 +
495	432	—	870	—		425 ✓
488	406	—	830	—		583 ✓
495	411	410	830	829	7.93, 7.92	
497	316	315	635	633	6.98, 6.97	
490	326	328	665	670	6.97, 7.00	
495	393	—	795	—		451 ✓
495	316	316	638	638	6.98, 6.98	
487	361	359	740	735	7.43, 7.39	
485	406	—	836	—		541 ✓
487	371	—	760	—		420 +
497	439	440	882	885	8.26, 8.28	

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1930phae.proj.12750

Zyp - RH 2168 - June 27, 1930.

Strip	Class	Star	η	ξ	Diff	Diff	cl	clk	Balt
25.4	p	65	2547	491	252	—	600	118	
25.6	p	44	2571	503	540	567	603	119	
	p	66	2571	661	352	—	608	119	
	p	67	2560	798	352	—	613	119	
25.8	p	68	2589	593	522	—	603	119	
26.4	p	45	2650	600	400	400	590	120	
	p	46	2653	607	251	236	593	120	
	p	10	2020	696	171	—	604	120	
Plate		1	1877	362	208	—	603	120	
Invalid		2	—	—	301	—	603	120	
		3	—	—	362	—	609	120	
		4	—	—	311	—	603	110	
		5	—	—	400	—	609	120	
		6	—	—	431	—	593	120	
Wrong star marked		7	—	—	346	—	600	120	
		8	—	—	598	—	608	120	5-20

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1930phae.proj.12750

Cl.-Dk.	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	L. K.
482	134	—	278	—		536+
584	421	448	720	768	7.30, 7.58	
489	233	—	476	—		479+
494	233	—	471	—		426+
484	403	—	835	—		523+
470	330	330	703	703	7.21, 7.21	
473	131	116	277	245	4.86, 4.89	
484	51	—	105	—		
483	88	—	182	—		
489	181	—	378	—		
489	242	—	495	—		
493	201	—	407	—		
489	280	—	573	—		
473	311	—	661	—		
488	478	—	980	—		

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1930phae.proj.12750

α Jp - R.A. 2169 - June 30, 1930

Strip	Class	Star	y	d	Dyc	Dyc	α	Dk	Dk
		10	2018	708	159	—	654	100	500
		1	1890	368	231	—	641	100	
		2	—	—	300	—	632	102	
		3	—	—	363	—	622	101	
		4	—	—	323	—	624	103	
		5	—	—	400	—	619	106	
		6	—	—	440	—	622	106	
		7	—	—	456	—	619	107	
		8	—	—	559	—	620	108	
15.4	p	1	1540	720	509	—	608	108	525
	p	2	1547	806	383	—	618	110	
	p	3	1552	851	517	—	617	110	
15.8	p	4	1593	432	438	—	618	111	
	p	5	1572	401	487	—	619	112	
	p	6	1591	724	543	—	624	112	
	p	7	1580	781	550	—	622	112	
16.2	p	8	1623	398	542	—	622	117	
	p	9	1624	469	500	—	621	114	
	p	1	1620	770	540	526	622	114	
	p	10	1632	770	480	—	627	118	
16.4	p	2	1650	369	581	590	627	119	
	p	11	1655	609	602	—	626	119	
	p	3	1648	839	582	600	628	119	
16.6	p	4	1673	724	170	163	611	120	
16.8	p	5	1694	440	467	467	622	120	
	p	12	1694	690	510	—	617	120	
	p	13	1680	933	552	—	631	121	
	p	14	1690	983	521	—	629	120	
17.0	p	6	1715	401	462	453	627	121	
	p	7	1699	484	550	543	623	122	

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1930phae.proj.12750

α.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L.K.
554	59	—	107	—		
541	131	—	242	—		
530	198	—	377	—		
521	262	—	501	—		
521	220	—	423	—		
513	294	—	572	—		
516	334	—	647	—		
512	349	—	683	—		
512	457	—	880	—		
500	401	—	801	—		1264+
508	273	—	537	—		1214+
507	407	—	802	—		1235+
507	427	—	841	—		1030+
507	375	—	740	—		~~1043+~~
512	431	—	842	—		1176+
510	438	—	860	—		1201+
505	425	—	841	—		
507	386	—	762	—		1044+
508	426	412	840	810	8.14, 7.97	
509	362	—	709	—		1208+
508	462	441	907	926	8.58, 8.72	
507	483	—	952	—		
509	463	481	909	946	8.58, 8.85	
491	50	43	102	88	2.61, off curve	
502	347	347	691	691	7.30, 7.30	
497	390	—	783	—		1166✓
510	431	—	843	—		8+
509	400	—	787	—		23+
506	341	332	673	654	7.17, 7.04	
501	428	421	~~858~~	842	8.26, 8.17	

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1930phae.proj.12750

2 yr - C H 2169 - June 30, 1930

Strip	Class	Star	η	ξ	Dec	Dec	cc	dk	Table
	p	8	1700	513	520	512	628	122	
	p	15	1710	807	571	—	635	122	
17.2	p	16	1730	806	480	—	633	123	
	p	17	1727	1024	482	—	620	123	
17.4	p	18	1745	249	493	—	622	123	
	p	9	1752	080	613	622	622	122	
	p	10	1750	065	563	570	629	123	
	p	19	1741	787	448	—	628	122	
	p	20	1758	784	517	—	630	124	
17.6	p	11	1760	429	572	573	629	124	
	p	21	1770	092	490	—	627	124	
	p	22	1761	629	567	—	627	125	
17.8	p	23	1780	230	539	—	620	127	
	p	24	1797	698	555	—	628	127	
	p	25	1790	813	442	—	630	126	
	p	12	1788	869	528	517	606	127	
	p	26	1787	1040	610	—	631	127	
	p	13	1790	1121	552	540	697	127	
18.2	p	27	1829	200	501	—	630	128	
	p	14	1831	462	546	550	637	128	
	p	28	1817	800	558	—	633	130	
	p	15	1831	839	590	587	630	128	
	p	29	1828	912	957	—	640	127	
18.4	p	30	1847	186	537	—	629	129	
	p	16	1851	214	407	400	630	128	
	p	17	1849	219	568	577	628	130	
	p	31	1845	416	531	—	629	129	
	p	18	1848	489	486	486	631	130	
	p	19	1837	064	528	515	631	130	
18.6	p	20	1809	302	279	280	630	130	

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1930phae.proj.12750

α.-Dk.	Defg.-Dk	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
506	398	390	785	770	7.83, 7.74	
513	449	—	875	—		1244 ✓
510	357	—	700	—		1251 ✓
497	359	—	721	—		51 +
499	370	—	740	—		926 +
500	491	500	981	1000	~~ff~~ curve	
506	440	447	868	884	8.80, 8.43	
506	326	—	645	—		1242 ✓
506	393	—	776	—		1246 ✓
505	448	449	896	898	8.50, 8.51	
503	366	—	728	—		1109 ✓
502	442	—	821	—		
493	412	—	835	—		189 +
501	428	—	855	—		↓
504	316	—	627	—		1279 ✓
499	401	390	839	815	8.12, 8.00	
504	483	—	959	—		
510	425	413	833	810	8.10, 7.98	
502	373	—	743	—		907 ✓
509	418	422	822	830	8.03, 8.09	
503	428	—	851	—		
502	462	459	920	914	8.67, 8.64	
413	230	—	557	—		56 ✓
500	308	—	616	—		892 +
502	279	272	555	541	6.37, 6.31	
498	438	447	880	897	8.40, 8.51	
500	402	—	804	—		948 ✓
501	356	356	710	709	7.40, 7.40	
501	398	385	795	766	7.89, 7.73	
500	149	150	298	300	4.79, 4.80	

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1930phae.proj.12750

Yp – R # 2169 – June 30, 1930

Strip	Class	Star	Y	X	Deff	Diff	cc	Dk	Vols
	p	32	1861	660	+90	—	634	130	
18.8	p	33	1886	188	520	—	629	130	
	p	34	1882	853	+90	—	633	131	
	p	35	1885	1188	563	—	630	131	
19.0	p	21	1903	201	575	560	630	130	
	p	36	1902	1009	542	—	633	130	
19.2	p	22	1933	+76	541	544	633	130	
19.4	p	37	1940	371	540	—	627	130	
	p	23	1943	368	504	+99	633	131	
	p	38	1950	1017	543	—	637	130	
19.6	p	24	1960	+87	573	573	637	131	
19.8	p	39	1988	+82	560	—	639	132	
20.0	p	40	2000	063	523	—	640	132	
	p	41	2000	778	573	—	637	131	
20.2	p	25	2029	221	+37	+30	627	131	
	p	42	2039	212	+09	—	627	132	
	p	26	2020	709	611	578	636	134	
	p	27	2027	823	+85	+80	639	133	
	p	43	2021	1109	+33	—	621	132	
20.6	p	44	2062	170	531	—	640	130	
20.8	p	45	2090	083	503	—	630	132	
	p	28	2088	512	570	570	637	134	
	p	29	2090	554	540	540	642	133	
	p	46	2079	950	386	—	643	134	
	p	30	2090	1088	512	503	639	134	
	p	47	2077	1295	527	—	639	135	
		1s	2018	708	182	—	627	137	
		1	1890	368	259	—	632	136	
		2	—	—	313	—	632	137	
		3	—	—	380	—	638	137	

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1930phae.proj..12750

Cl-Dk	Defl.-Dk.	Defl.-Dk	Reduced	Reduced	Magn.	L. No.
504	360	—	715	—		1171 ✓
493	390	—	791	—		880+
502	359	—	714	—		62 ✓
499	432	—	866	—		135+
500	445	430	890	860	8.46, 8.27	
503	412		820	—		118 ✓
503	411	414	817	823	8.00, 8.03	
497	410	—	825	—		693+
502	372	368	741	733	7.59, 7.53	
507	413	—	814	—		
506	442	442	873	873	8.34, 8.34	
507	428	—	844	—		
508	391	—	769	—		
506	442	—	873	—		105 ✓
496	306	299	613	606	6.26, 6.20	
495	277		558	—		805 ✓
502	477	444	950	886	8.91, 8.43	
500	352	347	702	696	7.34, 7.31	
489	301	—	616	—		183+
409	398	—	980	—		790 ✓
498	371	—	745	—		
503	436	436	866	866	8.30, 8.30	
509	407	407	800	800	7.91, 7.91	
509	252	—	493	—		205 ✓
499	378	369	757	738	7.66, 7.54	
498	392		784	—		206+
490	45	—	92	—		
496	123	—	248	—		
495	176	—	354	—		
501	243	—	481	—		

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1930phae.proj.12750

Strip	Class	Star	y	x	Dcl	Dcl	Cc	Dk	Volts	
		4	—	—	359	—	633	137		
		5	—	—	418	—	638	134		
		6	—	—	460	—	640	133		
		7	—	—	478	—	640	133		
		8	—	—	580	—	640	134		525
FMC June 30, 1930 RH 2169		15	2018	708	180	—	669	125		
		1	1890	368	240	—	659	128		
		2	—	—	313	—	658	129		
		3	—	—	380	—	655	129		
		4	—	—	342	—	659	130		
		5	—	—	410	—	654	130		
		6	—	—	464	—	658	130		
		7	—	—	481	—	655	131		
		8	—	—	590	—	650	131		
21.0	f2	48	2101	399	560	—	659	132		
	f	31	2108	580	545	535	658	135		
	f	32	2110	724	580	578	660	137		
	f	33	2101	1080	540	520	648	140		
21.2	f2	49	2138	1040	462	—	652	140		
		15	2018	708	172	—	660	140		
		1	1890	368	268	—	635	141		
		2	—	—	337	—	650	140		
		3	—	—	380	—	659	145		
		4	—	—	360	—	659	141		
		5	—	—	428	—	660	142		
		6	—	—	480	—	652	142		
		7	—	—	480	—	660	149		
		8	—	—	619	—	661	142		

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1930phae.proj.12750

Q. Dk.	Defl.-Dk.	Defl.-Dk	Reduced	Reduced	Magn.	h. No.
496	222	—	446	—		
504	284		567	—		
507	327		647	—		
507	345		682	—		
506	446		881	—		
544	55		102	—		
531	112		211	—		
529	184		347	—		
526	251		477	—		
529	212		400	—		
524	280		535	—		
528	334		632	—		
524	350		668	—		
519	459		886	—		
527	428		813	—		705 ✓
523	410	400	783	763	7.90, 7.81	
523	443	441	842	840	8.15, 8.14	
508	400	380	787	748	7.90, 7.95	✓
512	322		628	—		240
520	32		62	—		
494	127		256	—		
510	197		386	—		
514	235		457	—		
518	219		422	—		
518	286		552	—		
510	238		463	—		
511	331		648	—		
519	477		925	—		

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1930phae.proj.12750

Hyp- R.A. 216g- July 1, 1930.

Strip	class	Star	y	x	Dyx	Dyx	a	Dk	
		10	2018	737	154	—	606	088	525
		1	1890	296	226	—	594	088	
		2	—		290	—	591	090	
		3	—	—	352	—	593	091	
		4	—	—	347	—	593	091	
		5	—	—	399	—	591	091	
		6	—	—	431	—	593	093	
		7	—	—	443	—	593	092	
		8	—	—	540	—	593	093	
21.4	p	50	2151	129	504	—	577	096	
	p	51	2143	318	479	—	593	098	
	p	34	2152	332	439	424	581	097	
	p	52	2158	1229	310	—	589	099	
21.6	p	53	2170	1270	387	—	574	100	
21.8	p	54	2188	978	509	—	591	102	
	p	35	2180	1120	480	482	587	101	
	p	55	2194	1199	531	—	583	101	
22.0	p	36	2207	971	527	522	581	101	
	p	56	2200	542	338	—	591	102	
	p	37	2211	889	241	250	589	101	
	p	57	2211	1001	410	—	593	103	
	p	58	2202	1113	505	—	593	104	
22.2	p	38	2219	697	440	442	599	109	
22.4	p	59	2241	1013	390	—	591	110	
	p	60	2250	1261	498	—	587	109	
22.6	p	39	2260	836	439	423	590	109	
	p	61	2261	517	472	—	590	108	
	p	62	2273	809	378	—	597	110	
	p	63	2262	878	492	—	593	109	
22.8	p	40	2283	142	578	530	592	109	

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1930phae.proj.12750

α-Dk.	Dafl-Dk	Dafl-Dk	Reduced	Reduced	Magn.	L.Hs.
518	66	—	127	—		
506	125	—	247	—		
501	200	—	399	—		
502	261	—	519	—		
502	256	—	510	—		
500	308	—	415	—		
500	338	—	675	—		
501	351	—	698	—		
500	447	—	894	—		
481	418	—	850	—		
495	381	—	750	—		748 ✓
484	342	327	705	678	7.21, 7.01	
496	211	—	429	—		239 +
474	287	—	603	—		242 +
489	407	—	834	—		274 ✓
486	379	381	760	782	7.52, 7.67	
482	430	—	893	—		255 +
480	426	421	887	875	8.36, 8.27	
489	231	—	473	—		627 ✓
488	140	149	286	306	4.62, 4.79	
490	307	—	627	—		
489	401	—	819	—		264 +
490	331	333	675	678	7.02, 7.03	294 ✓
481	280	—	582	—		✓
478	389	—	813	—		
481	330	314	687	653	7.09, 6.96	
481	364	—	757	—		601 ✓
487	268	—	550	—		376 ✓
484	383	—	792	—		338 ✓
483	409	421	846	870	8.09, 8.23	

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1930phae.proj.12750

Dyf-RX 2169 - July 1, 1930.

Strip	Class	Star	y	x	Δeff	Δeff	cl	Δk	Falls
	p	64	2283	389	+91	—	592	110	
	p	41	2280	+03	502	583	597	110	
	p	65	2290	+69	351	—	590	110	
	p	42	2291	1011	387	373	596	110	
	p	66	2293	1033	500	—	593	110	
23.0	p	43	2299	1170	+46	+74	583	110	
	p	67	2314	1163	+43	—	593	111	
23.2	p	68	2320	287	+67	—	591	111	
	p	69	2320	+04	+24	—	593	110	
	p	44	2338	752	+39	+33	603	111	
	p	45	2336	753	+01	389	600	111	
23.6	p	70	2360	219	+82	—	594	111	
	p	71	2362	+37	958	—	600	110	
23.8	p	72	2379	163	+90	—	589	112	
	p	73	2389	+79	+72	—	592	111	
24.0	p	74	2402	515	+52	—	590	113	
	p	75	2410	803	550	—	610	113	
24.2	p	46	2429	1198	508	541	598	118	
24.4	p	76	2448	230	200	—	592	112	
	p	77	2450	264	508	—	599	113	
	p	47	2458	1003	528	530	604	113	
	p	78	2450	1020	+48	—	603	113	
24.6	p	48	2470	221	+70	+71	602	113	
	p	79	2463	+47	518	—	603	117	
24.8	p	80	2480	771	509	—	609	113	
	p	49	2484	1043	+46	+41	598	113	
25.0	p	50	2507	671	517	514	590	117	
	p	81	2511	869	508	—	610	113	
25.4	p	82	2537	563	531	—	609	106	
	p	83	2551	561	288	—	604	114	

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1930phae.proj.12760

α-Dk	Defl-Dk	Defl-Dk.	Reduced	Reduced	Magn.	D. No.
482	381	—	790	—		669
487	392	473	805	962	7.83, offscale	
480	241	—	500	—		625
486	277	263	570	540	6.33, 6.16	
483	390	—	807	—		
473	336	364	710	768	7.22, 7.59	
482	332	—	690	—		297
480	356	—	742	—		679
482	314	—	640	—		642
492	328	322	667	655	6.97, 6.89	
489	299	278	593	568	6.51, 6.32	
483	371	—	766	—		681
490	248	—	506	—		606
477	378	—	792	—		683
481	361	—	749	—		587
477	339	—	710	—		570
497	437	—	880	—		425
480	432	423	896	880	8.43, 8.31	
480	88	—	183	—		660
486	395	—	813	—		647
491	415	417	848	850	8.09, 8.10	
490	335	—	687	—		
469	357	358	762	763	7.04, 7.53	
486	401	—	824	—		583
496	396	—	798	—		451
485	333	328	687	677	7.08, 7.03	
473	400	397	845	840	8.09, 8.03	
497	395	—	795	—		420
503	425	—	845	—		541
483	174		360	—		536

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1930phae.proj.12750

Hyp - RH 2169 - July 1, 1930

Strip	Class	Star	y	x	Dyfe	Dyfe	Cc	Dk	Tolk
	p	87	2549	869	383	—	610	114	
25.6	p	85	2570	732	382	—	611	113	
25.8	p	51	2588	1039	370	357	609	117	
26.4	p	52	2649	638	492	485	609	113	
	p	53	2651	644	294	271	610	114	
	p	86	2650	652	539	—	610	117	
	p	87	2639	881	540	—	610	118	
		10	2018	737	191	—	588	117	
		1	1890	396	270	—	601	117	
Plate finished		2	—	—	300	—	601	114	
		3	—	—	359	—	602	117	
		4	—	—	340	—	604	117	
		5	—	—	405	—	606	116	
		6	—	—	400	—	607	118	
		7	—	—	457	—	606	117	
		8	—	—	551	—	609	116	525

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1930phae.proj.12750

Cl. Dk.	Defl. Dk.	Defl Pk.	Reduced	Reduced	Magn.	L. K.
496	269	—	543	—		426 x
498	269	—	537	—		479 x
492	253	240	516	489	6.00, 5.85	
496	379	372	763	748	7.57, 7.46	
496	180	157	363	316	5.17, 4.84	
493	422	—	851	—		509 x
492	422	—	856	—		
471	74	—	157	—		
484	123	—	254	—		
487	186	—	381	—		
485	242	—	500	—		
484	223	—	460	—		
490	289	—	590	—		
489	332	—	678	—		
489	340	—	696	—		
493	435	—	882	—		

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1930phae.proj.12750

Zgp BH 2171 – July 7, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Falls
		14	1950	663	200	—	619	113	510
		1	2120	376	257	—	620	117	
		2	—	—	999	—	629	118	
		3	—	—	369	—	626	119	
		4	—	—	370	—	630	120	
		5	—	—	440	—	623	120	
		6	—	—	487	—	621	121	
		7	—	—	473	—	624	121	
		8	—	—	570	—	622	122	
14.8		1	1476	663	566	565	632	124	
		2	1478	739	549	542	632	124	
15.0		1	1517	650	479	—	636	127	
		3	1563	792	578	577	633	124	
		2	1500	877	563	—	639	127	
15.2		3	1531	408	528	—	631	128	
		4	1531	548	488	482	633	129	
		4	1522	598	533	—	637	130	
		5	1520	638	543	542	639	130	
15.4		5	1554	557	541	—	640	130	
		6	1553	631	578	575	638	131	
		7	1539	832	541	539	638	131	
		8	1551	1018	603	604	646	133	
15.6		6	1561	371	406	—	637	132	
		9	1578	565	540	541	639	133	
15.8		10	1580	464	590	587	641	136	
		7	1580	502	590	—	639	138	
		11	1548	576	540	542	641	127	
		8	1595	636	571	—	643	137	
		9	1583	737	570	—	644	138	
		12	1582	954	560	556	641	140	

Remeasured See p. 154–170

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1930phae.proj.12750

Co-dk	diff-dk	diff-dk	red diff	red diff	Mag	L NO
503	87	—	117	—		
503	140	—	278	—		
511	221	—	431	—		
507	250	—	495	—		
510	250	—	490	—		
503	320	—	635	—		
500	346	—	731	—		
503	352	—	700	—		
500	448	—	895	—		
508	442	541	871	870		
508	425	518	839	825		
509	452	—	893	—		51 ×
506	431	450	890	889		
512	436	—	850	—		135 ×
503	390	—	775	—		1235 ×
502	359	353	715	708		
507	397	—	783	—		23 ×
509	437	436	860	859		
510	411	—	805	—		8 ×
507	447	444	885	875		
507	410	408	820	816		
513	470	471	918	920		
505	374	—	740	—		1214 ×
506	407	408	804	805		
507	454	451	895	890		
499	452	—	907	—		
517	413	415	796	802		
506	434	—	856	—		
506	432	—	854	—		90 ×
501	420	416	846	830		

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1930phae.proj.12750

110 Remeasured Dgp – RH 2171 – July 7, 1930.

Strip	Class	Star	y	x	Dyff	Dyff	Cc	Dk	Volts
	p	10	1582	974	600	—	647	140	
	p	11	1590	1051	538	—	644	140	
16.0	p	12	1602	381	563	—	640	140	
	p	13	1599	400	588	—	642	141	
	p	13	1593	526	589	590	647	141	
	p	14	1600	547	581	—	642	141	
	p	14	1611	861	560	563	644	141	
	p	15	1617	948	317	331	647	141	
16.4	p	15	1653	344	582	—	642	143	
	p	16	1649	416	499	—	645	143	
	p	16	1650	425	498	491	657	142	
	p	17	1640	608	587	—	654	142	
	p	18	1647	772	656	—	642	143	
	p	19	1650	929	451	—	651	143	
	p	20	1650	1127	449	—	651	143	
	p	17	1657	1152	612	604	660	146	
16.6	p	21	1670	498	573	—	647	144	
	p	18	1669	579	551	542	649	147	
	p	22	1674	606	592	—	650	146	
	p	19	1661	641	677	680	644	145	
	p	23	1669	653	360	—	652	145	
	p	24	1670	812	556	—	647	147	
	p	20	1669	869	562	561	652	147	
	p	21	1669	947	580	590	653	147	
	p	25a	1670	1089	386	—	652	141	
	p	22	1670	1132	551	552	656	148	
	p	23	1670	1191	611	600	660	147	
		1	1950	663	229	—	649	148	
		1	2170	346	248	—	624	148	
		2	—	—	362	—	649	149	

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1930phae.proj.12750

el-dk	dif-dk	dif-dk	rd diff	rd diff	Mag	L No.
507	460	—	906	—		
504	398	—	790	—		206 X
500	423	—	845	—		1201 X
501	447	—	890	—		
503	448	449	890	892		
501	440	—	876	—		
503	419	422	734	739		
506	266	290	525	574		
499	439	—	880	—		1186 X
502	356	—	710	—		1208 X
515	356	359	690	696		
512	445	—	880	—		
499	513	—	1026	—		118 √
508	308	—	605	—		183 X
508	306	—	603	—		242 X
514	466	458	909	881		
503	429	—	850	—		1244 √
502	406	394	810	785		
504	446	—	886	—		
499	432	435	875	881		
513	215	—	419	—		56 √
500	409	—	818	—		
505	415	414	821	820		
508	433	443	852	870		
507	239	—	471	—		239 X
508	403	404	792	793		
513	464	453	905	884		
499	75	—	115	—		
484	100	—	206	—		
510	213	—	426	—		

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1930phae.proj.12750

Remeasured Zgc - RH 2171 - July 8, 1930.

Strip	Class	Star	y	x	Diff	Diff	Cl	Dk	Volts
		3	—	—	394	—	650	147	
		4	—	—	364	—	659	147	
		5	—	—	451	—	642	149	
		6	—	—	487	—	647	149	
		7	—	—	590	—	643	148	510
		1A	1950	591	228	—	649	116	515
		1	2120	273	294	—	648	118	
		2	—	—	381	—	646	117	
		3	—	—	400	—	642	119	
		4	—	—	407	—	646	118	
		5	—	—	459	—	636	119	
		6	—	—	492	—	632	120	
		7	—	—	502	—	640	121	
		8	—	—	589	—	632	121	
16.8	ℓ	24	1690	396	570	562	639	122	
	ℓ	25	1680	428	502	501	642	123	
	ℓ	25b	1682	438	482	—	640	128	
	ℓ	26	1691	907	582	579	640	127	
	ℓ	27	1687	1000	600	597	647	127	
17.0	ρ	26	1709	437	463	—	639	129	
	ρ	27	1710	1109	558	—	649	128	
17.2	ρ	28	1718	446	528	—	640	130	
	ρ	29	1717	490	458	—	642	129	
	ρ	30	1720	503	597	—	639	130	
	ℓ	28	1732	770	490	482	641	131	
17.4	ρ	31	1749	939	526	—	639	132	
	ℓ	29	1750	339	540	539	642	132	
	ℓ	30	1750	410	581	582	642	132	
	ℓ	31	1741	429	522	513	642	132	
	ρ	32	1747	510	460	—	639	132	

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1930phae.proj.12750

cl-dk	dyl-dk	dyl-dk	red dyl	red dyl	Mag	L No.
503	247	—	491	—		
512	217	—	425	—		
493	302	—	613	—		
498	338	—	680	—		
495	458	—	825	—		
533	112	—	208	—		
530	184	—	348	—		
529	264	—	500	—		
523	281	—	537	—		
528	289	—	548	—		
527	340	—	645	—		
512	368	—	720	—		
519	381	—	734	—		
511	468	—	915	—		
519	448	470	866	910		
519	479	478	924	923		
517	459	—	886	—		1251 ✓
513	465	462	906	901		
520	473	470	910	905		
510	334	—	655	—		1242 ✓
521	430	—	825	—		
510	398	—	780	—		1246 ✓
513	329	—	642	—		1279 ✓
509	367	—	723	—		
510	359	351	705	689		
517	394	—	761	—		1166 ✓
510	408	401	800	785		
510	449	450	880	881		
510	390	381	765	746		
507	328	—	645	—		

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1930phae.proj.12750

Remeasured. 21P-C4 2171 - July 8, 1930

Strip	Class	Star	x	y	Dx	Dy	Cc	Wk	Mag
	p	33	1750	587	500	—	640	138	
	p	34	1740	646	577	—	652	137	
17.6	p	32	1760	227	342	333	637	137	
	p	33	1770	382	583	580	637	138	
17.8	p	34	1791	580	432	430	648	141	
	p	35	1776	899	512	—	647	140	
	p	36	1788	977	568	—	651	140	
	p	35	1792	1143	518	519	662	142	
18.0	p	36	1800	335	563	560	648	141	
	p	37	1810	460	502	502	646	142	
	p	37	1808	795	439	—	643	142	
	p	38	1809	889	612	616	647	141	
18.2	p	39	1831	968	572	578	658	143	
	p	40	1820	1029	477	477	659	142	
	p	41	1829	1080	567	562	659	143	
	p	38	1821	1093	523	—	659	143	
18.4	p	42	1840	144	548	540	652	148	
	p	43	1846	472	578	574	651	150	
	p	44	1848	760	609	600	658	148	
	p	45	1850	1027	610	611	661	148	
18.6	p	39	1873	093	490	—	657	149	
	p	40	1870	137	611	—	654	148	
	p	41	1870	140	540	—	658	149	
	p	42	1871	330	518	—	658	148	
	p	43	1879	910	502	—	651	149	
18.8	p	44	1880	443	531	—	643	149	
	p	45	1882	622	583	—	649	149	
	p	46	1880	878	582	—	657	149	
	p	47	1879	910	500	—	658	150	
	p	48	1890	941	498	—	659	149	

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1930phae.proj.12750

cl-dk	dyl-dk	dyl-dk	rid dyl	rid dyl	Mag	L No.
502	362	—	724	—		62 ✓
515	440	—	850	—		
500	405	396	810	791		
499	445	442	893	887		
502	391	389	779	775		
507	368	—	725	—		240 ✓
511	418	—	516	—		264 ✗
520	376	377	724	725		
502	422	419	840	835		
504	360	360	715	715		
501	387	—	752	—		205 ✓
506	471	475	930	936		
510	429	435	840	834		
517	335	335	648	648		
516	424	419	820	811		
516	380	—	735	—		
504	400	392	795	779		
501	438	434	875	866		
505	461	452	915	895		
513	462	463	900	901		
508	341	—	971	—		1030 ✗
506	463	—	915	—		1044 ✗
509	391	—	769	—		
510	370	—	725	—		1109 ✓
502	353	—	704	—		279 ✓
496	382	—	775	—		1171 ✓
500	434	—	866	—		105 ✓
508	433	—	855	—		274 ✓
498	350	—	704	—		279 ✓
510	350	—	686	—		294 ✓

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1930phae.proj.12750

Remeasured R JP-RH 2171- July 5, 1930.

Strip	Class	Star	y	x	Deff	Dyff	Cl	Dk Tab's
		46	1888	947	537	531	663	151
19.0		47	1916	801	562	568	660	152
		49	1909	993	570	—	663	152
		48	1923	1021	618	622	670	152
		49	1912	1127	570	567	667	151
19.2		50	1920	092	590	—	660	153
		50	1936	241	597	619	660	152
		51	1921	302	600	599	652	152
		52	1921	352	579	572	658	153
		53	1921	393	582	583	663	152
		54	1919	439	619	622	657	152
		55	1923	480	610	586	658	152
19.4		56	1938	328	598	610	668	155
		57	1957	418	549	541	658	154
		58	1946	443	560	552	657	153
		59	1952	089	516	513	657	154
		60	1940	663	552	542	653	155
		61	1953	979	621	621	658	157
19.6		62	1967	120	573	571	660	154
		63	1970	192	527	512	662	153
		64	1975	442	478	458	651	154
19.8		65	1988	837	600	588	663	156
20.0		66	2011	153	573	577	660	154
		67	1998	386	570	567	662	153
		68	2010	397	482	485	654	157
		51	2006	869	567	—	663	158
20.2		69	2031	136	519	520	664	157
		52	2028	1053	610	—	670	158
		1A	1950	591	239	—	642	157
		1	2120	273	298	—	660	157

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1930phae.proj.12750

cl-dk	dyl-dk	dyl-dk	rd diff	rd diff	Mag	L No.
512	386	380	755	742		
488	410	416	840	852		
511	418	—	820	—		
518	466	470	900	907		
516	419	416	811	806		
507	437	—	862	—		
508	445	467	875	920		
500	448	447	895	894		
505	426	421	845	835		
511	430	431	841	844		
505	467	470	925	930		
506	458	434	905	863		
513	443	455	862	876		
514	395	387	770	745		
504	407	399	807	793		
503	362	359	720	714		
498	397	387	798	778		
501	474	474	945	945		
506	419	417	529	525		
509	371	359	730	707		
497	324	304	651	611		
513	444	432	865	845		
506	419	423	826	836		
509	417	414	820	815		
497	325	328	654	660		
505	409	—	810	—	338	338 ✓
507	362	363	705	706		
512	452	—	884	—		
485	82	—	169	—		
503	141	—	280	—		

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1930phae.proj.12750

Remeasured RJP – RH 2171 – July 5, 1930.

Strip	Class	Star	η	ξ	Δηcl	Δξcl	cc	kk	Plate
		2	—	—	391	—	668	157	
		3	—	—	420	—	659	157	
		4	—	—	409	—	663	157	
		5	—	—	478	—	658	158	
		6	—	—	509	—	644	157	
		7	—	—	520	—	659	160	
		8	—	—	609	—	647	160	515
Smc July 8, 1930 RH 2171		15	1950	591	242	—	653	152	
		1	2120	273	281	—	648	152	
		2	—	—	380	—	660	153	
		3	—	—	409	—	660	152	
		4	—	—	390	—	660	152	
		5	—	—	487	—	657	153	
		6	—	—	500	—	649	153	
		7	—	—	520	—	658	155	
		8	—	—	610	—	660	154	
20.4	f	70	2050	188	330	330	670	155	
	fp	53	2049	484	560	—	667	155	
	f	71	2049	660	542	537	670	155	
20.6	fp	54	2062	263	600	—	667	158	
	f	72	2067	579	600	591	660	158	
	fp	55	2063	831	472	—	671	157	
	f	73	2070	852	563	560	670	157	
	f	74	2063	960	475	470	661	158	
21.0	fp	56	2113	089	531	—	667	158	
	fp	57	2110	347	592	—	670	159	
21.2	f	75	2138	103	541	594	669	159	
	fp	58	2132	190	550	—	670	159	
	f	76	2130	849	580	570	670	160	
21.4	f	77	2147	110	540	552	661	159	

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1930phae.proj.12750

cl-dk	dyl-dk	dyl-dk	rd dyl	rd dyl	Mag	L No.
509	334	—	460	—		
502	263	—	524	—		
506	252	—	497	—		
495	320	—	646	—		
487	352	—	721	—		
499	360	—	721	—		
487	419	—	916	—		
501	90	—	178	—		
496	129	—	260	—		
507	227	—	447	—		
508	257	—	505	—		
508	238	—	560	—		
504	334	—	564	—		
496	347	—	700	—		
503	365	—	725	—		
506	456	—	900	—		
515	175	175	340	340		
512	405	—	790	—		979=2 x
515	387	382	751	743		
509	342	—	672	—		948 ✓
502	342	333	681	665		
518	315	—	610	—		376 ✓
513	406	403	791	786		
503	317	312	630	620		
509	373	—	734	—		926 X
511	433	—	846	—		
510	382	375	750	735		
511	391	—	765	—		
510	420	410	824	804		
502	381	393	759	783		

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1930phae.proj.12750

Remeasured

FMC RH 2171 July 8, 1930

Strip	class	star	y	x	Diff	Diff	cl	Dh	Volt
21.4	f	78	2150	706	535	541	660	160	
	f	79	2140	911	500	515	675	159	
21.6	f	80	2170	112	520	510	663	160	
	f	81	2170	498	610	630	669	160	
	fp	59	2179	1050	568	—	675	160	
	f	82	2159	1080	588	583	681	160	
v21.8	f	83	2190	588	520	512	662	160	
22.0	f	84	2208	343	250	259	662	160	
	fp	60	2200	1077	469	—	670	160	
22.2	fp	61	2219	601	440	—	670	160	
	f	85	2220	803	432	440	679	161	
	fp	62	2230	961	577	—	680	161	
22.4	fp	63	2253	151	572	—	667	160	
	f	86	2258	400	420	410	679	160	
	fp	64	2240	452	583	—	678	161	
	f	87	2241	960	491	498	681	162	
22.6	f	88	2270	228	345	350	675	162	
	f	89	2262	533	590	570	679	162	
	f	90	2269	833	590	590	680	162	
22.8	fp	65	2279	630	577	—	680	163	
	fp	66	2291	1050	592	—	688	165	
23.0	f	91	2301	125	503	490	669	165	
	fp	67	2319	1002	481	—	690	162	
23.2	fp	68	2339	285	459	—	670	162	
	f	92	2338	371	529	515	660	160	
	fp	69	2331	620	458	—	669	162	
	f	93	2320	1029	580	580	670	162	
23.4	f	94	2340	167	320	330	670	163	
	fp	70	2350	411	560	—	670	165	
	f	95	2340	561	590	588	670	162	

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1930phae.proj.12750

ll - dk	diff - dk	diff dk	rad diff	rad diff	Mag	L No.
500	365	371	730	742		
516	371	356	660	620		
503	360	350	715	695		
509	450	470	885	925		
515	408	—	794	—		420 X
521	428	423	821	812		
502	360	352	716	700		
502	190	199	379	398		
510	309	—	606	—		426 X
510	280	—	550	—		627 = 2
518	271	279	524	540		
519	416	—	804	—		451 V
507	412	—	811	—		880 X
519	260	250	501	482		
517	422	—	815	—		765 V
519	429	436	826	840		
513	183	188	356	366		
517	428	408	830	788		
518	428	428	827	827		
517	414	—	810	—		606 V
523	427	—	816	—		457 X
504	338	325	770	645		
528	319	—	605	—		474 X
512	297	—	580	—		805 V
500	331	345	642	690		
507	396	—	780	—		625 V
508	418	418	821	821		
507	157	167	310	329		
505	395	—	781	—		748 V
508	328	326	645	641		

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1930phae.proj.12750

Renewed FMC R+I 2171 July 8, 1930

Sup	class	star	y	x	Diff	Diff	cl	Dh
23.6	f	71	2371	370	583	—	668	165
	f	72	2371	738	598	—	670	165
	f	96	2370	951	579	571	680	165
23.8	f	97	2391	245	553	535	669	167
	f	73	2383	278	550	—	670	165
	f	74	2390	478	531	—	670	165
	f	75	2389	565	580	—	668	165
	f	98	2381	628	598	540	672	165
	f	76	2390	700	569	—	670	165
24.0	f	77	2400	600	520	—	673	169
	f	78	2405	657	478	—	670	167
	f	99	2404	740	390	390	670	165
24.2	f	79	2435	880	380	—	670	166
	f	80	2429	939	581	—	680	166
24.6	f	81	2466	739	588	—	663	169
24.8	f	82	2490	528	550	—	669	168
	f	100	2490	578	560	571	675	169
	f	101	2481	878	461	451	670	168
25.4	f	102	2559	616	292	299	662	168
25.6	f	103	2567	449	556	550	671	169
	f	83	2569	511	575	—	670	169
25.8	f	104	2581	525	552	535	670	168
	f	84	2591	610	593	—	670	169
26.0	f	85	2613	588	280	—	673	170
26.2	f	86	2620	490	592	—	675	169
		15	1950	591	252	—	660	168
		1	2120	273	280	—	667	169
		2	—	—	401	—	670	169
		3	—	—	410	—	660	168
		4	—	—	404	—	670	169

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1930phae.proj.12750

Cl-dk	diff-dk	diff-dk	red diff	red diff	May	Plate No.
513	318	—	620	—		
505	373	—	736	—		570 √
515	394	386	765	750		
502	386	368	780	734		
505	385	—	761	—		790 √
505	366	—	725	—		713 √
503	415	—	825	—		664 ×
507	373	375	735	740		
505	404	—	800	—		587 √
504	351	—	696	—		642 √
503	311	—	618	—		606 √
505	225	225	446	446		
504	214	—	425	—		536 ×
514	415	—	807	—		523 ×
494	419	—	850	—		588 √
501	382	—	761	—		679 √
506	391	402	773	794		
502	293	283	784	764		
494	64	71	130	144		
502	387	381	770	760		
501	406	—	846	—		681 ×
502	384	367	770	731		
501	424	—	845	—		
503	110	—	219	—		660 ×
504	484	—	764	—		683 ×
492	84	—	171	—		
498	111	—	221	—		
501	232	—	466	—		
492	242	—	491	—		
501	235	—	469	—		

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1930phae.proj.12750

Remeasured FMC QH 2171 July 8, 1930

Strip	class	star	y	x	Dyy	Dyx	cl	Dk	Vach
		5	—	—	476	—	662	169	
		6	—	—	521	—	660	170	
		7	—	—	523	—	662	169	
		8	—	—	621	—	660	170	
				Plate	finished				

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1930phae.proj.12750

d-dk	dyf-dk	dyf-dk	rud dyf	rud dyf	Mag	L No.
493	307	—	622	—		
490	351	—	716	—		
493	366	—	741	—		
490	451	—	920	—		

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1930phae.proj.12750

QX Ser – RH 1903 – July 9, 1930

Strip	Class	Star	y	x	Dyff	Dyff	cc	Dk	Volts
		14	2078	742	111	—	570	111	510
		1	1732	619	122	—	592	112	
		2	—	—	134	—	607	113	
		3	—	—	147	—	582	116	
		4	—	—	152	—	588	117	
		5	—	—	177	—	570	117	
		6	—	—	229	—	561	118	
		7	—	—	250	—	564	118	
		8	—	—	383	—	570	119	
14.8	p	1	1483	615	370	—	601	120	
	p	2	1493	661	492	—	607	120	
15.0	p	1	1515	528	499	522	572	122	
	p	2	1504	621	422	468	590	122	
	p	3	1517	671	400	—	593	122	
15.2	p	4	1521	571	483	—	590	120	
	p	5	1530	618	510	—	598	123	
	p	3	1519	619	370	390	597	127	
	p	6	1527	646	432	—	593	126	
15.4	p	7	1540	391	239	—	580	126	
	p	8	1552	387	504	—	592	128	
	p	4	1553	561	379	417	590	128	
	p	9	1551	652	290	—	593	128	
	p	10	1549	701	476	—	605	129	
	p	11	1540	733	512	—	608	130	
15.6	p	12	1569	532	672	—	587	130	
	p	13	1570	569	470	—	589	131	
	p	14	1560	612	398	—	600	130	
	p	5	1570	731	418	434	589	131	
	p	6	1560	777	350	389	601	131	
15.8	p	15	1594	343	503	—	593	132	

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1930phae.proj.12750

cl-dk	dfl-dk	dfl-dk	rd dfl	rd dfl	Mag	L No.
459	0	—	0	—		
480	10	—	21	—		
494	21	—	43	—		
466	31	—	49	—		
469	35	—	75	—		
453	60	—	133	—		
443	111	—	250	—		
446	132	—	296	—		
451	264	—	585	—		
479	250	—	522	—		911 ×
487	368	—	755	—		960 ×
450	377	400	837	890	off curve	
468	300	341	640	724	8.47, off curve	
471	278	—	590	—		
467	360	—	770	—		
475	387	—	815	—		
443	263	283	595	639	8.35, 8.47	
467	306	—	655	—		
454	113	—	249	—		844 ×
464	372	—	802	—		
462	251	289	545	626	8.31, 8.43	
465	168	—	362	—		926 ×
476	347	—	728	—		
478	378	—	790	—		
457	242	—	530	—		892 ×
458	339	—	738	—		
470	252	—	535	—		
458	287	303	625	660	8.42, off curve	
470	219	258	465	548	8.00, 8.20	
461	371	—	805	—		

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1930phae.proj.12750

Agp - RH 1923 - July 9, 1930

Strip	Class	Star	η	δ	$\Delta\eta\cos\delta$	$\Delta\eta$	Cl	Dk	Tilt
	p	16	1593	505	340	—	593	132	
	p	17	1590	840	389	—	603	132	
	p	18	1588	849	499	—	598	133	
	p	19	1590	868	500	—	603	133	
	p	20	1598	888	241	—	608	133	
	p	21	1599	914	282	—	600	133	
16.0	p	7	1600	662	469	497	598	134	
	p	8	1610	704	500	528	605	135	
	p	9	1610	859	471	—	590	134	
16.2	p	10	1630	851	305	329	587	137	
	p	22	1615	419	429	—	588	138	
	p	11	1620	642	179	180	552	137	
	p	23	1639	969	437	—	601	138	
16.4	p	24	1647	280	350	—	588	137	
	p	25	1652	370	417	—	582	137	
	p	12	1640	479	157	160	587	134	
	p	26	1650	619	321	—	591	139	
	p	13	1650	703	508	528	593	140	
	p	27	1640	712	516	—	602	138	
	p	28	1641	887	299	—	613	138	
	p	29	1640	883	473	—	617	138	
	p	30	1638	969	436	—	601	138	
	p	31	1657	1042	362	—	590	138	
16.6	p	14	1640	788	582	503	602	139	
	p	15	1662	987	520	551	603	140	
	p	16	1660	1023	494	531	610	139	
	p	17	1670	1081	463	500	603	140	
16.8	p	18	1678	202	490	527	592	139	
	p	19	1679	208	421	482	580	140	
	p	32	1684	350	548	—	592	138	

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1930phae.proj.12750

Cl-dk	dfl-dk	dfl-dk	red dfl	red dfl	Mag	L No.
461	208	—	450	—		880 x
471	257	—	546	—		
465	366	—	785	—		
470	367	—	780	—		
475	108	—	230	—		1030 x
467	149	—	313	—		1043 x
464	335	363	708	775	off curve	
470	365	393	779	860	off curve	
456	334	—	886	— ?	off curve	
458	168	186	373	414	7.66, 7.80	
450	291	—	647	—		840 x
415	42	43	97	98	6.12, 6.13	
463	299	—	645	—		
451	213	—	472	—		
445	280	—	628	—		807 x
453	23	26	51	57	5.50, 5.56	
452	182	—	404	—		907 ✓
453	368	388	810	855	off curve	
464	378	—	815	—		
475	161	—	345	—		1044 x
479	335	—	700	—		
463	295	—	639	—		
452	224	—	495	—		1110 x
463	443	364	955	785	off curve	
463	380	411	820	888	off curve	
471	355	392	753	832	off curve	
463	323	360	699	778	off curve	
453	331	388	731	855	off curve	
450	291	342	646	760	off curve	
454	410	—	903	—		792 x

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1930phae.proj.12750

2yr - RX 1903 - July 9, 1930

Temp	Class	Star	η	α	$\delta\eta\varepsilon$	$\delta\eta\varepsilon$	$\alpha\varepsilon$	Δk	Volts
		20	1688	357	501	530	593	140	
		33	1697	358	811	—	587	138	
		21	1688	490	522	548	590	139	
		34	1687	592	460	—	591	139	
		35	1691	671	520	—	596	139	
		22	1690	678	548	518	604	139	
		36	1690	759	478	—	597	138	
		37	1684	815	467	—	599	140	
		38	1681	837	504	—	598	139	
		23	1691	991	210	230	587	139	
		39	1698	1109	278	—	607	140	
17.0		40	1700	243	400	—	589	139	
		41	1717	391	490	—	597	138	
		42	1710	409	239	—	588	138	
		43	1710	539	516	—	586	139	
		24	1710	581	463	492	598	140	
		25	1712	584	530	552	593	140	
		26	1714	609	419	496	588	140	
		27	1710	691	454	482	597	139	
		44	1709	902	529	—	611	140	
		28	1710	1073	270	303	592	140	
		45	1701	1080	418	—	588	140	
		46	1707	1081	513	—	608	140	
		29	1710	1089	510	531	608	141	
17.2		47	1728	648	449	—	594	139	
		30	1729	648	330	371	593	139	
		48	1722	678	362	—	599	139	
		31	1730	881	513	532	588	140	
		49	1721	895	550	—	600	140	
17.4		32	1739	458	434	461	592	140	

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1930phae.proj.12750

cl-dk	diff-dk	diff-dk	red diff	red diff	Mag	L No
453	361	390	795	860	off curve	
449	173	—	384	—		790 ✓
451	383	409	846	905	off curve	
452	321	—	710	—		
457	381	—	834	—		
465	409	379	870	815	off curve	
459	340	—	740	—		
459	327	—	714	—		
459	365	—	795	—		1029 ✗
448	71	91	159	203	6.65, 6.94	
467	138	—	296	—		1141 ✗
450	261	—	580	—		758 ✗
459	352	—	770	—		
450	101	—	133	—		805 ✓
447	377	—	840	—		
458	323	352	705	765	off curve	
453	390	412	860	910	off curve	
448	339	356	758	795	off curve	
458	315	343	689	749	off curve	
471	389	—	825	—		1073 ✗
452	130	163	289	360	7.35, 7.62	
448	278	—	620	—		
468	373	—	800	—		
467	369	390	789	835	off curve	
455	310	—	680	—		
454	191	232	860	710	off curve	
460	223	—	485	—		948 ✓
448	373	392	833	875	off curve	
460	410	—	890	—		
452	294	321	632	711	8.41, off curve	

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1930phae.proj.12750

Zgp - RH 1903 - July 9, 1930

Strip	Class	Star	y	x	Dyfe	Dxfe	cc	Dk	Tolls
		50	1749	493	433	—	592	140	
		33	1740	603	418	455	587	140	
		51	1743	721	522	—	596	140	
		34	1741	767	453	481	591	140	
		35	1742	853	474	512	598	140	
		52	1740	913	459	—	605	139	
		36	1738	987	310	343	604	140	
		53	1740	1106	508	—	600	140	
17.6		37	1760	149	463	466	588	140	
		38	1760	226	341	365	582	140	
		54	1760	334	412	—	584	139	
		39	1779	411	208	220	569	139	
		40	1760	493	420	443	598	140	
		55	1770	581	405	—	592	139	
		41	1759	767	269	288	582	139	
		42	1758	982	252	282	604	139	
		10	2078	742	140	—	547	139	
		1	1732	619	150	—	583	139	
		2	—	—	160	—	605	138	
		3	—	—	170	—	586	138	
		4	—	—	173	—	578	139	
		5	—	—	198	—	572	138	
		6	—	—	240	—	562	138	
		7	—	—	272	—	572	139	
		8	—	—	401	—	577	139	500
JMC RH 1903 July 9, 1930		15	2078	773	131	—	589	130	
		1	1732	650	140	—	600	130	
		2	—	—	153	—	617	130	
		3	—	—	161	—	598	130	
		4	—	—	173	—	601	130	

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1930phae.proj.12750

Cl-dk	dfl-dk	dfl-dk	rd dfl	rd dfl	Mag	L No.
452	293	—	650	—		
447	278	315	620	704	8.40, off curve	
456	382	—	838	—		
451	313	341	693	705	off curve	
458	334	372	730	810	off curve	
466	320	—	685	—		
464	170	203	367	435	7.65, 7.85	
460	368	—	584	—		
448	323	326	721	728	off curve	
442	201	225	453	508	7.93, 8.10	
445	273	—	615	—		754 X
430	69	81	158	188	6.64, 6.82	
458	280	303	610	656	8.40, off curve	
453	266	—	586	—		893 V
443	130	149	293	336	7.37, 7.55	
465	113	143	242	308	7.12, 7.43	
408	1	—	2	—		
444	11	—	25	—		
467	22	—	47	—		
445	32	—	72	—		
439	34	—	77	—		
434	60	—	137	—		
424	102	—	240	—		
433	133	—	306	—		
438	262	—	597	—		
459	1	—	2	—		
470	10	—	21	—		
487	23	—	47	—		
468	31	—	66	—		
471	43	—	91	—		

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1930phae.proj.1275D

FMC R.H. 1903 July 9, 1930

Ship	class	star	y	y	Dyll	Dyll	cl	Dh	Vach
		5	—	—	190	—	580	130	
		6	—	—	238	—	580	130	
		7	—	—	270	—	583	130	
		8	—	—	416	—	555	130	
17.8	f	43	1791	239	142	143	604	130	
	fp	56	1790	390	369	—	597	130	
	f	44	1791	589	389	404	599	130	
	f	45	1795	823	290	304	601	130	
	fp	57	1780	1149	310	—	603	130	
18.2	f	46	1830	260	198	198	600	130	
	fp	58	1839	415	360	—	605	130	
	fp	59	1830	889	276	—	600	131	
	fp	60	1830	1110	378	—	610	131	
18.4	f	47	1852	374	240	258	590	131	
	fp	61	1852	917	418	—	587	131	
	fp	62	1852	1156	378	—	610	132	
	fp	63	1850	1199	208	—	610	132	
18.6	fp	64	1870	127	385	—	590	132	
	fp	65	1868	505	409	—	590	132	
	f	48	1865	601	149	149	590	132	
	f	49	1862	627	397	408	590	132	
	f	50	1878	1002	332	358	598	133	
		15	2078	773	138	—	583	133	
		1	1732	650	149	—	583	133	
✓		2			153	—	600	133	
		3	—	—	167	—	591	133	
		4	—	—	172	—	600	133	
		5	—	—	202	—	580	133	
		6	—	—	261	—	578	133	
		7	—	—	280	—	578	135	
		8	—	—	417	—	540	133	

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1930phae.proj.12750

cl-dk	dyl-dk	dyl-dk	red dyl	red dyl	Mag	L No
450	60	—	133	—		
450	108	—	240	—		
453	140	—	309	—		
455	274	—	602	—		
474	12	13	25	27	4.45, 4.50	
467	239	—	490	—		
469	259	274	553	585	8.07, 8.19	
469	160	174	340	370	7.42, 7.54	
473	180	—	380	—		1104 X
470	8	8	17	17	4.00, 4.00	
475	230	—	485	—		748 V
469	145	—	310	—		1109 V
459	142	—	309	—		1176 X
459	109	127	238	276	7.05, 7.20	
456	287	—	629	—		
478	246	—	515	—		1201 X
478	76	—	159	—		1214 X
458	253	—	551	—		683 X
458	277	—	605	—		778 X
458	17	17	37	37	4.85, 4.85	
458	265	276	578	600	8.14, 8.21	
463	199	225	427	484	7.71, 7.79	
450	5	—	11	—		
450	16	—	36	—		
467	20	—	43	—		
458	34	—	74	—		
467	39	—	83	—		
447	79	—	177	—		
445	128	—	288	—		
443	145	—	328	—		
407	284	—	696	—		

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1930phae.proj.12750

~~F~~ R+1903 July 10, 1930

Strip	class	star	y	ϕ	Diff	Diff	cl	Dh	volt
		15	2078	892	131	—	593	130	520
		1	1732	709	140	—	630	130	
		2	—	—	153	—	649	130	
		3	—	—	163	—	622	130	
		4	—	—	173	—	620	130	
		5	—	—	198	—	618	131	
		6	—	—	253	—	611	131	
		7	—	—	272	—	615	130	
		8	—	—	421	—	622	131	
18.8		51	1886	192	529	552	628	132	
		66	1892	416	301	—	614	133	
		52	1881	488	451	491	621	133	
		53	1887	491	200	212	630	132	
		54	1883	543	520	560	622	133	
		67	1893	568	412	—	597	133	
		68	1885	710	421	—	630	133	
		55	1890	981	497	542	630	138	
		69	1880	1168	262	—	640	134	
		70	1890	1283	398	—	641	136	
19.0		56	1910	167	452	506	629	137	
		71	1901	284	339	—	622	137	
		72	1901	366	510	—	622	137	
		57	1909	488	562	631	628	139	
		58	1909	797	519	551	630	139	
		73	1909	929	517	—	622	139	
		74	1909	1050	550	—	632	140	
		59	1910	1253	518	572	646	140	
19.2		75	1930	138	899	—	609	139	
		76	1928	209	328	—	628	140	
		77	1919	360	448	—	624	140	

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1930phae.proj.12750

Cl-dk	dfl-dk	dfl-dk	rd dfl	rd dfl	Mag	L No.
463	1	—	2	—		
500	10	—	20	—		
519	23	—	44	—		
492	33	—	67	—		
490	43	—	88	—		
487	67	—	137	—		
480	122	—	254	—		
485	142	—	292	—		
491	290	—	590	—		
491	391	320	796	650	off curve, 8.29	
481	168	—	348	—		713 V
488	328	368	670	754	8.30, off curve	
498	68	80	137	161	6.45, 6.62	
489	387	427	790	871	off curve	
464	279	—	600	—		765 V
497	288	—	580	—		235 X
497	364	409	730	824	off curve	
506	118	—	232	—		1208 X
505	202	—	400	—		1235 X
498	315	369	633	740	8.20, off curve	
495	202	—	408	—		681 X
493	323	—	653	—		
489	423	492	865	1005	off curve	
491	480	412	975	835	off curve	
487	376	—	770	—		
492	410	—	835	—		
506	378	432	746	852	off curve	
470	260	—	554	—		
480	188	—	392	—		679 V
486	308	—	634	—		688 V

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1930phae.proj.12750

Dyf-RH 1903-July 8, 1920

strip	class	star	y	x	Dyff	Dyff	cl	dk	Volt
	p	78	1930	712	518	—	620	140	
	p	79	1932	770	562	—	619	140	
	p	60	1930	782	550	567	622	141	
	p	80	1927	780	520	—	631	141	
	p	81	1929	997	398	—	638	141	
	p	82	1917	1147	522	—	638	141	
	p	61	1932	1228	553	597	641	142	
19.4	p	62	1951	222	470	513	621	142	
	p	83	1947	559	539	—	632	142	
	p	63	1940	659	552	537	619	140	
	p	64	1939	711	261	282	630	142	
	p	84	1938	752	353	—	627	142	
	p	85	1950	772	502	—	631	142	
	p	65	1948	829	284	313	624	142	
	p	86	1941	921	303	—	638	142	
	p	66	1950	940	513	549	632	144	
	p	67	1940	1196	397	435	640	143	
19.6	p	87	1963	178	154	—	637	143	
	p	68	1970	427	353	408	620	143	
	p	88	1963	471	468	—	629	143	
	p	89	1960	541	520	—	646	143	
	p	69	1970	613	220	238	628	143	
	p	70	1954	690	551	550	638	144	
	p	90	1960	848	583	—	646	143	
	p	71	1977	963	566	582	638	144	
	p	91	1970	1082	322	—	640	147	
	p	92	1960	1093	233	—	650	146	
	p	93	1968	1119	288	—	647	144	
	p	94	1959	1132	452	—	643	143	
	p	72	1964	1150	506	534	637	147	

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1930phae.proj.12750

cl - dk	dyl - dk	dyl - dk	red dyl	red dyl	Mag	L No.
480	362	—	755	—		3034 X
479	418	—	872	—		1011 X
481	409	426	850	885	off curve	
490	389	—	794	—		
497	257	—	516	—		1189 V
497	381	—	765	—		1226 X
499	411	455	824	910	off curve	
479	328	381	685	795	8.85, off curve	
490	397	—	805	—		722 X
466	409	386	875	825	off curve	
488	119	140	244	286	7.10, 7.32	
485	211	—	439	—		979 = 2r X
489	360	—	735	—		
482	142	171	294	355	7.35, 7.58	1171 V
496	151	—	304	—		
488	369	405	755	827	off curve	
497	256	288	515	580	8.05, 8.15	
484	11	—	23	—		660 X
477	210	265	440	559	7.80, 8.09	
486	325	—	668	—		
497	377	—	756	—		709 X
485	77	95	159	196	6.60, 6.87	
474	407	406	860	856	off curve	
497	440	—	884	—		1147 X
486	422	438	865	900	off curve	
493	175	—	356	—		1246 V
504	87	—	171	—		1242 X
503	144	—	286	—		1251 V
500	309	—	617	—		1244 V
490	351	387	715	789	off curve	

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1930phae.proj.12750

RH 1903 – July 8, 1920

strip	class	star	y	x	Dyll	Dyll	cl	Dh	Volt
	f	73	1960	1151	520	550	659	147	
	p	95	1971	1184	499	—	656	147	
	p	96	1957	1210	486	—	660	147	
	f	74	1940	1217	503	491	652	148	
	f	97	1978	1222	506	—	640	148	
19.8	fp	Tm C 98	1990	195	390	—	632	145	
	f	75	1989	221	440	470	628	146	
	fp	99	1981	405	431	—	639	150	
		15	2078	832	155	—	643	150	
		1	1732	709	161	—	660	150	
		2	—	—	172	—	659	150	
		3	—	—	183	—	650	150	
		4	—	—	193	—	660	150	
		5	—	—	218	—	639	150	
		6	—	—	280	—	632	150	
		7	—	—	300	—	632	150	
		8	—	—	438	—	630	150	
Tm C RH 1903 July 11, 1920		15	2078	780	110	—	609	109	
		1	1732	653	121	—	629	109	
		2	—	—	133	—	643	110	
		3	—	—	142	—	630	110	
		4	—	—	151	—	630	110	
		5	—	—	179	—	610	110	
		6	—	—	251	—	594	111	
		7	—	—	280	—	610	111	
		8	—	—	410	—	610	111	
20.0	fp	100	2016	932	280	—	600	113	
	fp	101	2011	1020	215	—	619	114	
	fp	102	2018	1141	430	—	640	117	
20.2	f	76	2038	240	230	250	620	118	

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1930phae.proj.12750

cl-dyk	dyk-dk	dyk-dk	red dyk	red dyk	Mag.	L No.
512	373	403	733	790	off course	
509	352	—	890	—		
513	339	—	661	—		
504	355	343	706	682	off course, 8.35	
492	358	—	725	—		
487	245	—	507	—		
482	294	324	610	672	8.20, 8.31	
489	281	—	555	—		
493	05	—	10	—		
510	11	—	22	—		
509	22	—	43	—		
506	33	—	66	—		
510	43	—	84	—		
489	68	—	139	—		
482	130	—	271	—		
482	150	—	311	—		
480	288	—	600	—		
500	1	—	2	—		
520	12	—	23	—		
533	23	—	43	—		
520	32	—	64	—		
520	41	—	78	—		
500	69	—	140	—		
483	140	—	290	—		
499	169	—	338	—		
499	299	—	580	—		
487	167	—	346	—		642 V
505	101	—	200	—		1279 V
523	313	—	599	—		
502	112	132	221	261	6.96, 7.12	

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1930phae.proj.1275D

Fmc 9 + 1903 July 11, 1920

Strip	Class	Star	y	x	Dyc	Dyc	d	Dh	Corr
20.2	f	77	2025	589	348	391	617	120	
	f	78	2019	690	293	241	610	120	
	f	79	2039	710	439	476	632	120	
	f	80	2020	840	409	470	622	120	
	p	103	2020	992	400	—	632	120	
	p	104	2032	1145	374	—	627	121	
	f	81	2021	1202	353	373	618	121	
20.4	p	105	2047	898	199	—	610	122	
	f	82	2040	400	223	240	612	121	
	p	106	2042	511	190	—	630	121	
	f	83	2049	640	270	290	600	122	
20.6	f	84	2079	097	382	400	627	125	
	p	107	2070	330	240	—	612	123	
	p	108	2063	450	367	—	619	124	
	p	109	2070	1090	440	—	640	126	
	f	85	2070	1100	405	450	634	127	
	f	86	2068	1138	435	473	630	127	
20.8	f	87	2080	549	438	488	627	128	
	p	110	2080	1210	328	—	645	129	
21.0	f	88	2109	087	197	200	610	129	
	f	89	2118	190	313	328	619	129	
	p	111	2118	330	308	—	620	129	
	f	90	2111	948	325	349	624	130	
	p	112	2102	975	305	—	639	130	
	f	91	2111	982	308	318	630	130	
	p	113	2111	1058	160	—	622	130	
	p	114	2107	1134	430	—	636	130	
21.2	p	115	2120	840	419	—	630	131	
	f	92	2137	1113	237	261	629	131	
	p	116	2132	1210	238	—	633	131	

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1930phae.proj.12750

cl-dk	dyl-dk	dyl-dk	red dyl	red dyl	Mag.	L No.
497	228	271	458	545	7.81, 8.08	
490	113	121	230	247	7.00, 7.07	
512	319	356	625	700	8.82, off curve	
502	289	350	573	695	8.16, off curve	
512	280	—	546	—		
506	253	—	500	—		8 X
497	232	252	466	506	7.87, 7.95	
488	77	—	158	—		625 ✓
491	102	119	208	242	6.88, 7.05	
509	69	—	131	—		627=22 ✓
478	148	168	308	350	7.90, 7.47	
502	257	275	512	547	8.00, 8.09	
489	119	—	244	—		606 ✓
495	243	—	490	—		601 ✓
514	334	—	650	—		
507	278	223	548	440	8.10, 7.78	
503	308	346	614	690	8.28, off curve	
499	310	360	620	720	8.30, off curve	
516	199	—	386	—		23 X
481	68	71	141	148	6.45, 6.48	
490	184	199	376	406	7.56, 7.67	
491	179	—	364	—		587 ✓
496	195	219	392	440	7.62, 7.79	
491	165	—	336	—		
500	178	188	356	376	7.49, 7.56	
488	30	—	62	—		56 ✓
494	200	—	405	—		
499	288	—	576	—		
497	106	130	213	262	6.91, 7.12	
502	107	—	214	—		51 X

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1930phae.proj.1275D

FMC RH 1903 July 11, 1930

Grups	class	star	y	x	Dyf	Dyf	cl	Sh	Volt
21.4	f	93	2151	238	415	440	620	131	
	p	117	2140	250	388	—	621	131	
	p	118	2142	340	330	—	630	132	
	f	94	2147	395	352	392	619	132	
	f	95	2149	652	173	180	600	133	
21.6	f	96	2170	497	430	480	620	135	
21.8	f	97	2199	320	361	399	615	138	
	p	119	2198	330	440	—	628	138	
	f	98	2191	745	140	141	619	138	
22.0	p	120	2219	497	440	—	602	139	
	p	121	2210	1130	448	—	640	139	
22.2	p	122	2220	930	395	—	635	140	
	p	123	2233	1062	392	—	638	140	
22.4	f	99	2249	610	420	500	629	140	
	f	100	2240	1023	420	483	640	140	
22.6	f	101	2265	198	242	281	620	141	
	p	124	2269	265	393	—	621	140	
	f	102	2271	679	145	145	622	141	
	p	125	2270	1032	385	—	638	142	
	f	103	2269	1084	409	441	632	141	
	f	104	2261	1130	240	260	638	141	
22.8	p	126	2285	259	180	—	629	141	
	f	105	2281	434	258	261	623	142	
	f	106	2298	460	193	199	608	142	
	f	107	2282	521	418	457	624	144	
	p	127	2299	630	218	—	635	144	
	f	108	2290	1000	291	313	630	145	
	f	109	2292	1193	390	433	642	147	
23.0	p	128	2300	890	195	—	620	148	
23.4	p	129	2343	258	380	—	618	149	

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1930phae.proj.12750

Cl-Dk	Left-Dk	Defl-Dk	Red Defl	Red Defl	mag	L No.
489	284	309	594	645	8.22, 8.38	
490	257	—	524	—		583 ✓
498	198	—	400	—		
487	220	260	450	531	7.80, 8.05	
467	40	47	86	107	5.88, 6.06	
485	295	345	620	725	8.30, off curve	
477	223	261	466	545	7.85, 8.08	
490	302	—	415	—		
481	2	3	4	6	3.42, 3.65	
463	401	—	870	—		496 ✗
501	309	—	616	—		90 ✗
495	255	—	515	—		
498	252	—	585	—		118 ✓
489	280	360	572	735	8.06 off curve	
500	280	343	560	682	8.13, off curve	
479	101	140	203	287	6.85, 7.23	
481	253	—	525	—		541 ✓
481	4	4	8	8	3.78, 3.78	
496	243	—	490	—		
491	268	300	545	610	8.09, 8.29	
497	99	119	200	239	6.82, 7.02	
488	39	—	80	—		536 ✗
481	116	119	240	247	7.00, 7.05	
466	51	57	109	122	6.15, 6.29	
480	274	313	570	651	8.15, 8.40	
491	74	—	151	—		376 ✓
485	146	168	300	349	7.29, 7.46	
495	243	286	495	580	7.95, 8.19	
472	47	—	99	—		205 ✓
469	231	—	493	—		523 ✗

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1930phae.proj.12750

½mc RH 1903 July 11, 1930

Ship	class	star	y	Y	Diff	Diff	dt	Dh	Volt
23.4	p	130	2340	683	378	—	632	150	
		15	2078	780	151	—	640	150	
		1	1732	653	159	—	654	149	
		2	—	—	169	—	671	149	
		3	—	—	183	—	650	149	
		4	—	—	195	—	651	149	
		5	—	—	210	—	635	149	
		6	—	—	280	—	630	150	
		7	—	—	299	—	640	150	
		8	—	—	440	—	620	150	
	alg		RH	1903	July	11, 1930			530
		10	2078	780	110	—	632	110	
		1	1732	653	121	—	640	110	
		2	—	—	141	—	660	111	
		3	—	—	153	—	628	112	
		4	—	—	156	—	640	113	
		5	—	—	183	—	619	114	
		6	—	—	276	—	618	116	
		7	—	—	278	—	625	116	
		8	—	—	419	—	621	119	
23.6	p	131	2360	147	351	—	598	120	
	p	110	2957	447	530	549	595	120	
	p	132	2970	808	352	—	602	120	
	p	111	2360	967	442	471	589	121	
	p	133	2369	1093	520	—	611	122	
	p	134	2360	1192	416	—	610	122	
23.8	p	135	2390	189	570	—	606	122	
	p	112	2392	201	336	359	602	122	
	p	136	2384	237	492	—	600	123	
	p	137	2393	272	510	—	578	124	

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1930phae.proj.12750

cl-dk	dfl-dk	dfl-dk	red dfl	red dfl	Mag	L No
482	228	—	474	—		338 ✓
490	1	—	2	—		
505	10	—	20	—		
522	20	—	38	—		
501	44	—	88	—		
502	46	—	92	—		
486	161	—	126	—		
480	130	—	262	—		
490	149	—	304	—		
470	299	—	635	—		
522	0	—	0	—		
530	11	—	21	—		
549	30	—	55	—		
516	41	—	79	—		
527	43	—	82	—		
505	69	—	137	—		
502	130	—	260	—		
509	162	—	318	—		
502	300	—	600	—		
478	231	—	483	—		534 ✗
475	410	429	865	905	off curve	
482	232	—	484	—		274 ✓
462	321	350	695	758	off curve	
489	398	—	815	—		
488	294	—	602	—		135 ✗
484	448	—	930	—		
480	214	237	445	493	7.87, 8.02	
477	369	—	773	—		519 ✗
454	386	—	850	—		

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1930phae.proj.1275D

Kap-RH 1903- July 11, 1930

Strip	class	star	y	y	Diff	Diff	cl	Dk	Volt
		113	2397	275	478	504	591	126	
		114	2393	277	190	220	590	126	
		115	2380	290	523	550	603	124	
		116	2380	399	538	541	596	127	
		138	2388	451	533	—	602	128	
		139	2380	523	423	—	610	128	
		140	2389	1039	190	—	602	128	
		117	2390	1038	194	208	603	126	
24.0		118	2412	189	370	401	605	128	
		141	2400	291	480	—	603	128	
		142	2400	397	448	—	591	128	
		143	2400	450	340	—	600	128	
		144	2414	617	432	—	597	128	
		119	2404	744	211	233	600	129	
		120	2414	787	231	271	592	128	
		121	2402	790	262	292	602	128	
		145	2404	803	219	—	598	128	
		146	2410	872	493	—	599	129	
		147	2410	908	241	—	600	129	
24.2		148	2417	242	408	—	594	130	
		149	2422	299	522	—	601	130	
		150	2428	358	210	—	608	129	
		122	2424	391	339	376	592	129	
		151	2431	789	222	—	608	129	
		152	2426	806	512	—	601	130	
24.4		123	2443	861	282	316	603	130	
		153	2444	1097	512	—	617	131	
		124	2440	1151	398	430	612	131	
24.6		154	2466	237	299	—	605	129	
		125	2469	237	326	351	597	129	

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Cl-dk	dyl-dk	dyl-dk	rd dyl	rd dyl	Mag.	L No
468	355	381	759	815	off curve	
467	67	97	143	208	6.52, 6.92	
479	399	426	835	890	off curve	
469	411	414	880	885	off curve	
474	405	—	854	—		
482	295	—	813	—		423 ✓
474	62	—	131	—		183 ✗
477	68	82	142	171	6.53, 6.72	
477	242	273	505	570	8.05, 8.39	
475	352	—	740	—		
463	320	—	690	—		
472	212	—	470	—		435 ✓
469	304	—	655	—		
471	82	104	174	210	6.72, 6.95	
464	102	143	220	308	6.98, 7.37	
474	134	164	289	351	7.26, 7.51	
470	91	—	194	—		279 ✓
470	364	—	774	—		
471	112	—	238	—		240 ✓
464	278	—	600	—		509 ✗
471	392	—	631	—		494 ✗
479	81	—	173	—		474 ✗
463	210	244	475	525	7.97, 8.13	
479	93	—	199	—		294 ✓
471	382		810	—		
473	152	186	321	392	7.41, 7.69	
486	381	—	782	—		
481	267	299	554	600	8.25, 8.39	
476	170	—	356	—		498 ✗
468	197	222	423	475	7.80, 7.99	

1930phae.proj.12750

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1930phae.proj.12750

Zgp - R H 1903 - July 11, 1930

Strip	Class	Star	y	x	Dpe	Dpf	Rl	Rk	Volts
	p	155	2460	321	471	—	600	130	
	p	156	2478	379	380	—	590	129	
	p	157	2460	437	493	—	578	130	
	p	158	2471	752	468	—	597	130	
	p	159	2462	761	560	—	587	130	
	D	126	2462	901	450	490	610	130	
24.8	p	160	2480	303	537	—	592	130	
	p	161	2495	489	310	—	590	130	
	D	127	2483	543	414	468	601	130	
	p	162	2480	763	336	—	609	130	
	D	128	2480	809	471	517	602	130	
	p	163	2482	884	361	—	597	130	
	D	129	2480	1031	460	481	603	130	
	p	164	2495	1132	542	—	607	130	
25.0	p	165	2493	259	499	—	588	131	
	p	166	2502	297	537	—	599	131	
	p	167	2510	442	480	—	600	131	
	p	168	2517	461	200	—	590	130	
	p	169	2501	562	489	—	595	131	
	D	130	2503	803	462	494	605	131	
	p	170	2500	838	500	—	599	131	
	D	131	2500	901	406	468	606	131	
	p	171	2500	912	552	—	599	131	
	p	172	2497	951	480	—	610	131	
25.2	p	173	2518	461	197	—	598	130	
	p	174	2521	634	403	—	601	131	
	D	132	2527	752	496	520	592	131	
	D	133	2528	783	379	434	594	130	
	p	175	2521	961	501	—	599	131	
	p	176	2519	1078	356	—	599	130	

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1930phae.proj.12750

Cl-dk	dyl-dk	dyl-dk	red dyl	red dyl	Mag	L No.
470	341	—	725	—		
461	251	—	545	—		457 X
448	363	—	810	—		442 X
467	333	—	713	—		
457	430	—	940	—		
480	320	360	665	750	off curve	
462	407	—	885	—		
460	280	—	610	—		420 X
471	324	322	688	685	off curve	
479	206	—	430	—		
472	341	387	723	821	off curve	
467	231	—	494	—		264 X
473	330	357	700	755	off curve	
477	412	—	860	—		181 X
437	368	—	840	—		
468	406	—	866	—		
469	349	—	743	—		
460	70	—	152	—		426 X
464	358	—	770	—		
474	331	363	697	765	off curve	
468	369	—	787	—		
475	275	337	577	709	8.30 off curve	
468	421	—	899	—		
479	349	—	727	—		
463	67	—	145	—		426 X
470	272	—	580	—		
461	355	389	770	843	off curve	
464	249	304	537	655	8.16, off curve	
468	370	—	790	—		
469	226	—	482	—		206 X

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1930phae.proj.12750

Zgp – R.A. 1913 – July 11, 1920

Strip	Class	Star	η	ξ	Defl	Defl	cc	Wk	Volts	
25.4		134	2541	793	520	542	599	131		
		135	2551	797	550	577	603	130		
		136	2547	809	538	550	596	131		
		177	2543	947	438	—	594	130		
		178	2542	992	156	—	602	130		
25.8		179	2583	401	402	—	596	131		
		137	2593	710	509	539	597	131		
		180	2580	738	532	—	596	131		
		181	2581	744	504	—	590	130		
		138	2595	800	493	510	586	131		
		182	2594	832	271	—	597	131		
		183	2594	850	512	—	600	131		
		139	2590	869	190	198	582	130		
		140	2593	982	370	410	598	130		
		184	2583	1009	197	—	604	130		
26.0		141	2612	654	410	440	597	130		
		142	2616	661	486	510	589	130		
		143	2592	709	540	556	593	131		
		144	2602	823	442	500	591	131		
26.2		145	2630	503	152	153	523	130		
		185	2617	567	477	—	589	131		
		10	2078	780	130	—	602	129		
		1	1732	653	140	—	622	129		
Plate Spoiled		2	—	—	158	—	642	130		
		3	—	—	167	—	632	129		
		4	—	—	176	—	627	130		
		5	—	—	198	—	612	130		
		6	—	—	274	—	600	129		
		7	—	—	276	—	610	130	575	
		8	—	—	416	—	613	129		

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L No
468	389	411	830	879	off curve	
473	420	447	890	945	off curve	
465	402	419	865	900	off curve	
464	308	—	665	—		225 X
472	26	—	55	—		239 X
465	271	—	584	—		
466	378	408	810	860	off curve	
465	401	—	856	—		
460	374	—	815	—		
455	362	379	795	832	off curve	
466	140	—	300	—		297 X
469	381	—	813	—		
452	60	68	133	150	6.43, 6.59	
468	240	286	512	599	8.10, 8.38	
474	67	—	141	—		242 X
467	280	310	599	664	8.38, off curve	
459	356	380	794	846	off curve	
462	409	425	869	924	off curve	
460	311	369	675	800	off curve	
393	22	23	56	59	5.36, 5.39	
458	346	—	755	—		
473	1	—	4	—		
493	11	—	22	—		
512	28	—	55	—		
503	38	—	77	—		
497	46	—	93	—		
482	68	—	120	—		
471	145	—	306	—		
480	146	—	304	—		
484	287	—	571	—		

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1930phae.proj.12750

Dec 98 - RH 2171 - July 17, 1930

Strip	Class	Star	η	ξ	Defc	Defc	Cc	Dk	Volts
		1s	1950	667	602	—	1041	487	525
		1	2120	349	669	—	1043	489	
		2	—	—	748	—	1039	491	
		3	—	—	798	—	1036	491	
		4	—	—	790	—	1040	491	
		5	—	—	859	—	1029	491	
		6	—	—	899	—	1020	492	
		7	—	—	902	—	1032	493	
		8	—	—	987	—	1032	494	
14.8		1	1476	667	977	977	1040	497	
		2	1478	740	957	951	1039	498	
15.0		1	1517	653	893	—	1040	499	
		3	1504	794	979	978	1040	499	
		2	1500	879	971	—	1042	499	
15.2		3	1531	409	939	—	1041	500	
		4	1531	550	891	890	1041	501	
		4	1522	600	940	—	1043	501	
		5	1519	640	979	979	1039	501	
15.4		5	1553	559	953	—	1032	502	
		6	1539	836	951	951	1047	502	
		6	1541	1001	1012	—	1049	503	
		7	1551	1020	1008	993	1048	503	
15.6		7	1560	373	821	—	1038	503	
		8	1579	568	949	952	1041	503	
		9	1552	643	978	987	1039	504	
15.8		10	1580	467	990	991	1039	504	
		8	1592	487	991	—	1040	506	
		9	1580	505	992	—	1041	505	
		11	1595	527	990	990	1041	506	
		12	1579	568	948	950	1045	503	

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1930phae.proj.12750

Cl-Dk	Diff-dk	Diff-dk	Red Diff	Red Diff	Mag	L No.
554	115	—	208	—		
554	180	—	326	—		
548	249	—	454	—		
546-	307	—	563	—		
549	299	—	545-	—		
538	368	—	684	—		
528	407	—	770	—		
539	409	—	759	—		
538	493	—	915-	—		
543	480	480	885-	885-	8.15, 8.15	
541	459	453	849	849	7.89, 7.89	
541	394	—	686	—		51 +
541	480	8—	835-	—		
543	472	—	867	—		135- +
541	439	—	811	—		1235 +
540	390	389	723	720	7.12, 7.10	
542	359	—	663	—		23 +
538	478	478	888	888	8.18, 8.18	
530	451	—	850	—		8 +
545-	453	453	830	830	7.75, 7.75	
546	511	—	935-	—		181 +
545	505-	490	926	900	8.45, 8.25	
535-	318	—	595-	—		1214 +
538	446	449	826	834	7.72, 7.79	
535-	478	483	895-	901	8.20, 8.26	
535-	486	487	910	911	8.34, 8.35	
534	485	—	909	—		
536	487	—	909	—		
535-	484	484	905-	905-	8.30, 8.30	
541	435	437	804	807	7.58, 7.61	

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1930phae.proj.12750

Zgc-RH 2141- July 17, 1930

Strip	Class	Star	y	x	Dcyl	Dcyl	Ce	Dk Plate
	p	10	1584	739	968	—	1040	504
	p	13	1581	959	973	962	1048	507
	p	11	1590	1052	948	—	1042	507
16.0	p	12	1602	383	979	—	1051	519
	p	13	1593	638	993	—	1061	518
	p	14	1617	949	709	713	1050	517
16.7	p	14	1653	357	966	—	1051	518
	p	15	1649	418	917	—	1059	519
	p	15	1650	428	918	909	1057	520
	p	16	1650	540	1014	—	1057	520
	p	17	1647	777	964	—	1051	520
	p	18	1650	930	867	—	1062	520
	p	19	1650	1129	860	—	1061	521
	p	16	1658	1157	1020	1011	1073	521
16.6	p	20	1670	500	990	—	1058	521
	p	17	1661	644	990	997	1053	522
	p	21	1669	657	788	—	1067	523
	p	22	1670	816	969	—	1056	522
	p	18	1670	871	973	977	1061	522
	p	19	1668	950	1001	1013	1060	523
	p	23	1670	1090	797	—	1063	523
	p	20	1670	1132	1032	1020	1071	527
	p	21	1670	1135	960	967	1071	528
16.8	p	22	1690	469	989	980	1057	527
	p	23	1660	500	930	932	1067	528
	p	24	1681	511	910	—	1056	528
	p	24	1688	1074	1012	1011	1071	529
17.0	p	25	1709	511	882	—	1060	530
	p	25	1691	981	1003	1008	1069	530
	p	26	1710	1163	979	—	1073	531

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1930phae.proj.12750

Cl-dk	dfl-dk	dfl-dk	red dfl	red dfl	Mag	L No-
536	464	—	730	—		90 +
541	466	455	860	840	7.96, 7.80	
535	439	—	820	—		206 +
532	460	—	865	—		1201 +
543	475	—	860	—		
533	192	196	860	368	4.83, 4.90	
533	448	—	844	—		1176 +
540	398	—	736	—		1208 +
537	398	389	740	725	7.20, 7.10	
537	494	—	920	—		1274 +
531	444	—	835	—		118 ✓
542	348	—	640	—		183 +
540	339	—	627	—		242 +
552	499	490	905	888	8.30, 8.15	
537	469	—	874	—		1244 ✓
531	468	475	884	895	8.12, 8.22	
544	265	—	487	—		56 ✓
534	447	—	840	—		
539	451	455	836	845		
537	478	490	890	910	8.20, 8.31	
540	274	—	506	—		239 +
544	505	493	930	905	8.50, 8.30	
543	432	439	790	810	7.55, 7.62	
536	462	453	870	855	8.03, 7.95	
539	402	404	745	749	7.21, 7.25	
528	382	—	722	—		1251 ✓
542	483	482	890	889	8.18, 8.16	
530	352	—	665	—		1242 ✓
539	473	478	876	889	8.05, 8.16	
542	438	—	810	—		

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1930phae.proj.12750

Exp- CH 2171 — July 17, 1930

Strip	Class	Star	ny	Δ	Dyfl	Dyfl	Cl	Δ	Volts
17.2		27	1718	519	950	—	1068	530	
		28	1718	563	887	—	1072	532	
		26	1732	844	902	892	1069	532	
		29	1720	1100	1012	—	1079	534	
17.4		30	1748	412	950	—	1070	533	
		27	1749	413	959	957	1069	534	
		28	1750	483	1007	1008	1071	537	
		29	1740	503	952	951	1071	537	
		31	1747	574	989	—	1068	538	
		32	1750	661	942	—	1073	537	
		33	1740	719	1002	—	1082	537	
17.6		30	1760	300	700	744	1066	534	
		31	1770	458	1013	1011	1071	537	
		34	1777	972	920	—	1077	538	
17.8		35	1790	196	1019	—	1078	538	
		32	1791	654	857	849	1069	538	
		36	1780	782	1060	—	1077	538	
		37	1788	1050	982	—	1080	539	
		33	1792	1218	930	927	1087	538	
18.0		34	1797	398	1029	1017	1070	538	
		35	1800	409	986	982	1070	539	
		36	1810	533	932	928	1071	539	
		38	1807	869	850	—	1073	539	
		37	1810	963	1040	1032	1082	539	
		10	1950	661	618	—	1055	539	
		1	2120	349	682	—	1088	538	
		2	—	—	780	—	1073	538	
		3	—	—	814	—	1072	538	
		4	—	—	811	—	1087	540	
		5	—	—	877	—	1062	539	
		6	—	—	913	—	1058	539	

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1930phae.proj.12750

cl-dk	dyf-dk	dyf-dk	red dyf	red dyf	Mag	L No.
535	417	—	780	—		1246 ✓
546	355	—	652	—		1279 ✓
537	370	360	690	670	6.91, 6.80	
545	478	—	879	—		225 +
537	417	—	779	—		1166 ✓
535	425	423	795	790	7.55, 7.50	
534	470	471	880	881	8.10, 8.12	
534	415	414	778	775	7.42, 7.44	
530	451	—	851	—		
536	405	—	755	—		62 ✓
545	465	—	853	—		
529	213	207	404	392	5.17, 5.08	
534	476	474	894	889	8.20, 8.18	
539	382	—	710	—		240 ✓
540	481	—	890	—		
531	319	311	600	584	6.41, 6.32	
539	462	—	585	—		
541	443	—	817	—		264 +
549	392	389	715	710	7.08, 7.03	
532	485	479	912	900	8.33, 8.25	
531	447	443	843	835	7.84, 7.79	
532	393	389	739	730	7.18, 7.12	
534	311	—	584	—		1205 ✓
543	501	493	924	909	8.45, 8.31	
516	79	—	153	—		
500	144	—	288	—		
535	242	—	452	—		
534	276	—	518	—		
547	271	—	495	—		
523	338	—	645	—		
519	374	—	721	—		

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1930phae.proj.12750

2 Gp - R.A. 21 7' — July 18, 1930

Strip	Class	Star	y	x	Diff	Diff	Cl	Mk	Falls
		7	—	—	923	—	1071	538	
		8	—	—	1021	—	1072	539	525
		1A	1950	667	606	—	1022	+87	
		1	2120	949	678	—	1029	+89	525
		2	—	—	760	—	1022	+89	
		3	—	—	791	—	1020	+90	
		4	—	—	780	—	1030	+91	
		5	—	—	854	—	1012	+91	
		6	—	—	880	—	1003	+92	
		7	—	—	890	—	1018	+93	
		8	—	—	950	—	1007	+93	
18.2	p	39	1829	307	962	—	1017	+96	
		38	1831	1072	952	952	1023	+97	
		39	1821	1103	860	860	1030	+99	
		40	1829	1155	932	932	1030	+98	
	p	40	1820	1169	904	—	1032	500	
18.4		41	1840	220	919	911	1020	499	
		42	1847	549	952	951	1017	500	
		43	1849	1100	984	982	1029	499	
18.6	p	41	1875	168	861	—	1020	500	
		42	1870	213	911	—	1019	500	
		43	1872	403	897	—	1018	503	
		44	1879	984	872	—	1023	503	
18.8		45	1880	518	910	—	1011	503	
		46	1882	697	957	—	1013	508	
		47	1880	951	979	—	1027	502	
		48	1879	984	877	—	1024	503	
		49	1890	1016	869	—	1022	503	
		44	1888	1019	902	902	1029	504	
19.0		45	1916	846	939	932	1014	507	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. NO.
533	385	—	725	—		
533	482	—	904	—		
535	119	—	222	—		
540	189	—	350	—		
534	271	—	508	—		
536	301	—	566	—		
539	289	—	538	—		
521	363	—	697	—		
511	388	—	760	—		
525	397	—	750	—		
514	457	—	888	—		
521	466	—	894	—		
526	455	455	865	865	7.95, 7.95	
531	351	351	660	660	6.52, 6.52	
532	436	436	820	820	7.60, 7.60	
532	404	—	760	—		
521	420	412	806	790	7.51, 7.40	
517	452	451	855	854	7.89, 7.88	
530	485	483	915	912	8.42, 8.41	
520	361	—	692	—		1030
519	411	—	791	—		1044
515	394	—	785	—		1109
520	369	—	709	—		279
508	407	—	801	—		1171
515	449	—	870	—		105
525	447	—	852	—		274
521	374	—	715	—		279
519	366	—	707	—		294
525	398	398	758	758	7.18, 7.18	
512	426	425	831	830	7.71, 7.70	

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1930phae.proj.12750

AGP - RA 2171 - July 18, 1930.

Strip	Class	Star	y	x	Dec'l	Dec'l	cc	Alt	Table
	p	50	1909	1067	940	—	1029	507	
	p	46	1904	1097	988	984	1029	508	
	p	47	1912	1200	947	940	1033	508	
19.2	p	51	1920	168	960	—	1023	509	
	p	48	1936	313	968	971	1028	510	
	p	49	1920	377	971	968	1022	510	
	p	50	1938	404	962	962	1027	510	
	p	51	1921	427	958	947	1022	511	
	p	52	1921	468	960	964	1028	511	
	p	53	1924	553	962	967	1023	512	
19.4	p	54	1938	403	972	971	1031	512	
	p	55	1940	437	981	982	1024	513	
	p	56	1946	518	943	930	1024	512	
	p	57	1940	738	932	933	1027	513	
	p	52	1940	787	987	—	1031	513	
19.6	p	58	1968	193	950	946	1023	513	
	p	59	1970	267	890	909	1033	516	
	p	60	1957	490	923	929	1031	517	
	p	61	1973	518	839	837	1028	518	
19.8	p	62	1988	907	971	982	1037	518	
20.0	p	63	1998	459	951	940	1033	518	
	p	64	2010	471	866	878	1033	517	
	p	53	2007	942	949	—	1032	518	
20.2	p	65	2032	210	877	895	1039	518	
	p	54	2037	441	972	—	1036	519	
	p	55	2028	1128	983	—	1043	519	
20.4	p	66	2050	260	720	720	1038	519	
	p	56	2037	442	973	—	1037	519	
	p	57	2048	560	940	—	1033	519	
	p	67	2050	737	918	920	1037	520	

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1930phae.proj.12750

Cl-dk	diff-dk	diff-dk	rd diff	rd diff	Mag.	L. No.
522	433	—	836	—		
521	480	476	920	912	8.45, 8.40	
525	439	432	837	823	7.76, 7.62	
514	451	—	880	—		
518	458	461	889	892	8.15, 8.20	
512	461	458	900	895	8.26, 8.21	
512	452	452	880	880	8.10, 8.10	
511	447	436	875	852	8.05, 7.89	
517	449	453	869	875	8.00, 8.05	
511	450	455	880	890	8.10, 8.19	
519	460	459	886	885	8.15, 8.14	
511	468	469	915	917	8.41, 8.42	
512	431	418	841	818	7.80, 7.98	
514	419	420	819	820	7.59, 7.60	
518	474	—	915	—		238
510	437	433	860	850	7.94, 7.85	
517	374	393	722	758	6.93, 7.19	
514	416	412	802	795	7.50, 7.45	
510	321	319	629	625	6.32, 6.30	
519	453	464	871	897	8.01, 8.25	
515	433	422	840	820	7.79, 7.60	
516	349	361	675	700	6.60, 6.79	
514	431	—	840	—		338
521	359	377	679	724	6.62, 6.95	
517	453	—	876	—		
524	464	—	879	→		
519	201	201	385	385	4.60, 4.60	
518	454	—	874	—		
514	421	—	820	—		2r
517	398	400	770	773	7.26, 7.29	

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1930phae.proj.12750

XP-RH 2171 — July 18, 1930.

Strip	Class	Star	y	x	Dyf	Dyf	cc	dk	Plts
		68	2038	1082	999	999	1041	520	
20.6		69	2066	652	970	964	1036	520	
		58	2063	907	850	—	1041	519	
		70	2070	929	939	932	1044	520	
		71	2063	1035	890	887	1029	520	
21.0		72	2102	912	980	982	1040	520	
21.2		59	2115	162	909	—	1038	522	
		73	2137	189	909	891	1040	521	
		74	2129	922	945	947	1041	521	
21.4		60	2150	177	968	—	1032	522	
		75	2147	183	927	916	1038	520	
		61	2132	263	929	—	1043	521	
		62	2152	391	961	—	1032	521	
		76	2150	780	911	917	1030	521	
		77	2140	988	887	877	1040	522	
		78	2149	1013	988	980	1037	522	
21.6		79	2170	189	889	898	1038	520	
		80	2168	576	981	982	1033	522	
21.8		81	2190	661	933	900	1022	521	
22.0		82	2204	418	628	629	1028	521	
		63	2200	1150	859	—	1052	521	
		10	1950	667	639	—	1023	521	
		1	2120	349	690	—	1033	521	
		2	—	—	970	—	1036	520	
		3	—	—	808	—	1039	521	
		4	—	—	881	—	1047	521	
		5	—	—	870	—	1029	521	
		6	—	—	903	—	1022	520	
		7	—	—	910	—	1032	521	
		8	—	—	992	—	1018	521	525

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. No.
527	479	479	908	908	8.32, 8.32	
516	450	444	871	860	8.02, 7.94	
522	331	—	633	—		376 ✓
524	419	412	800	784	7.50, 7.35	
509	370	367	727	720	6.96, 6.90	
520	460	462	885	888	8.15, 8.18	
516	387	—	750	—		926 +
519	388	370	748	714	7.09, 6.94	
520	424	426	817	820	7.58, 7.60	
510	446	—	875	—		
518	407	396	785	764	7.36, 7.15	
522	408	—	780	—		907 ✓
511	440	—	860	—		893 ✓
509	390	396	766	778	7.25, 7.31	
518	365	355	705	685	6.82, 6.67	
515	466	458	905	890	8.30, 8.20	
518	369	378	714	730	6.89, 7.00	
511	459	460	899	900	8.24, 8.26	
501	412	379	820	755	7.60, 7.15	
507	107	108	211	213	off curve	
531	338	—	635	—		426 +
502	118	—	235	—		
512	169	—	330	—		
516	250	—	484	—		
512	287	—	563	—		
526	279	—	528	—		
508	349	—	688	—		
502	383	—	763	—		
511	389	—	760	—		
497	471	—	948	—		

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1930phae.proj.12750

2 JP- RH. 2171 – July 19, 1930

Strip	Class	Star	y	x	Dep	Dep	cc	Dk	Belts
		1*	1950	667	556	—	930	438	520
		1	2120	349	610	—	910	441	
		2	—	—	704	—	943	442	
		3	—	—	740	—	943	442	
		4	—	—	791	—	952	443	
		5	—	—	793	—	938	443	
		6	—	—	813	—	929	447	
		7	—	—	828	—	942	449	
		8	—	—	901	—	933	449	
22.2		64	2219	678	737	—	947	450	
		83	2220	880	732	732	936	450	
22.4		65	2253	228	858	—	937	450	
		84	2256	473	754	748	947	451	
		85	2242	1034	790	793	950	453	
		66	2251	1228	894	—	959	454	
22.6		86	2271	302	663	687	947	452	
		87	2262	609	861	861	947	444	
		88	2259	1073	890	882	952	453	
22.8		89	2279	542	888	888	942	457	
		67	2279	707	863	—	947	459	
		90	2297	1100	889	883	953	458	
23.0		91	2302	200	781	787	941	459	
		92	2300	448	880	873	949	460	
		93	2308	461	884	887	952	460	
23.2		68	2338	359	778	—	943	460	
		94	2323	447	839	827	943	450	
		69	2331	697	769	—	947	460	
		70	2318	1079	783	—	960	460	
		95	2320	1102	873	877	957	461	
23.4		96	2341	240	660	677	948	460	

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1930phae.proj.12750

ll - dk	diff - dk	diff - dk	red diff	red diff	Mag	L No.
492	95	—	193	—		
469	171	—	364	—		
501	262	—	522	—		
501	298	—	594	—		
509	289	—	569	—		
486	350	—	721	—		
482	366	—	760	—		
493	379	—	769	—		
484	452	—	933	—		
497	287	—	777	—		627-2a ✓
486	282	282	580	580	5.95, 5.95	
487	408	—	840	—		880 +
496	303	297	610	597	6.15, 6.08	
497	337	340	678	685	6.62, 6.69	
495	440	—	890	—		
495	211	235	426	475	4.75, 5.15	
503	417	417	830	830	7.70, 7.70	
499	437	429	875	860	8.02, 7.90	
485	431	431	889	889	8.09, 8.09	
488	404	—	826	—		601 ? ✓
495	431	425	870	859	8.00, 7.90	
482	328	328	680	680	6.65, 6.65	
489	420	413	860	845	8.07, 7.80	
492	424	427	860	870	7.90, 8.00	
483	318	—	658	—		805 ✓
493	383	377	779	765	7.35, 7.25	
487	309	—	634	—		625 ✓
500	323	—	646	—		474 +
496	412	416	828	836	7.68, 7.76	
488	200	217	410	444	4.10, 4.90	

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1930phae.proj.12750

HJP - RH 2171 — July 19, 1930

Strip	Class	Star	y	x	Dyll	Dyll	Cl	Dk Bolts
		71	2338	359	777	—	949	460
		72	2350	489	860	—	921	460
		97	2340	637	887	887	952	461
23.6		73	2371	443	875	—	948	461
		74	2371	812	836	—	950	462
		98	2370	1028	877	870	957	462
23.8		99	2392	320	839	840	948	462
		100	2390	324	893	892	950	462
		75	2384	351	850	—	948	462
		76	2390	551	845	—	951	462
		101	2390	092	892	890	948	462
		77	2388	640	881	—	952	460
		102	2382	701	843	840	956	463
		78	2389	776	858	—	950	462
24.0		79	2400	678	831	—	953	463
		80	2405	731	783	—	952	464
		103	2404	813	703	704	951	462
24.2		81	2436	954	713	—	949	463
		82	2428	1012	880	—	953	463
24.8		83	2490	600	853	—	950	466
		104	2490	651	861	858	952	465
		105	2492	661	911	908	953	466
		106	2482	953	780	770	952	464
25.6		107	2567	523	853	850	951	466
		84	2569	589	809	—	948	463
		108	2559	690	559	572	949	462
25.8		109	2582	600	837	840	951	464
		85	2591	683	862	—	953	463
26.0		86	2615	660	603	—	950	464
		1A	1950	667	581	—	931	464

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1930phae.proj.12750

cl-dk	dyl-dk	dyl-dk	red dyl	red dyl	mag	L No.
489	303	—	623	—		805
461	400	—	865	—		748
491	426	426	866	866	7.95, 7.95	
487	414	—	850	—		
488	374	—	765	—		570
495	415	408	839	825	7.75, 7.66	
486	377	378	774	775	7.34, 7.35	
488	431	430	880	880	8.05, 8.05	
486	388	—	796	—		790
489	383	—	784	—		713
486	430	428	884	880	8.07, 8.05	
489	418	—	855	—		664
493	380	377	770	765	7.30, 7.25	
488	396	—	810	—		587
490	368	—	750	—		642
488	319	—	653	—		606
489	241	242	493	495	5.30, 5.31	
486	250	—	514	—		536
490	317	—	647	—		
484	387	—	800	—		679
487	396	393	812	805	7.59, 7.55	
487	445	442	914	905	8.30, 8.22	
488	316	306	646	626	6.43, 6.28	
485	387	384	796	790	7.47, 7.43	
485	396	—	815	—		681
487	97	110	199	226	off curve, 2.60	
487	393	396	805	811	8.04, 8.08	
490	399	—	815	—		647
486	139	—	285	—		660
467	117	—	250	—		

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1930phae.proj.12750

Strip	Class	Star	y	x	Dyff	Dyff	cc	Dk	Ratio
		2	2120	349	630	—	940	463	
Plate finished		3	—	—	710	—	951	463	
		4	—	—	740	—	951	463	
		5	—	—	733	—	960	463	
		6	—	—	800	—	944	462	
		7	—	—	821	—	937	463	
		8	—	—	908	—	950	463	5-20

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1930phae.proj.12750

Clr dk	diff-dk	diff-dk	red diff	red diff	Mag	L No
477	167	—	350	—		
488	247	—	505	—		
488	277	—	566	—		
497	270	—	542	—		
482	338	—	704	—		
474	358	—	756	—		
487	445	—	915	—		

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1930phae.proj.12750

FMC 9 # 2167 July 25, 1930

Strip	Class	Star	y	x	Dyl	Dyl	Cl	Dk Volts	
		15	2080	732	520	—	1042	479	
		1	1801	495	658	—	1045	480	
		2	—	—	710	—	1030	481	
		3	—	—	760	—	1024	482	
		4	—	—	768	—	1032	483	
		5	—	—	799	—	1015	485	
		6	—	—	834	—	1020	486	
		7	—	—	863	—	1030	487	
		8	—	—	930	—	1012	485	
15.6	f	1	1579	697	825	—	1021	489	
	f	2	1569	721	868	—	1021	490	
15.8	f	3	1587	650	940	—	1030	500	
16.0	f	1	1608	903	790	789	1021	500	
16.2	f	4	1620	460	882	—	1035	500	
	f	5	1620	710	890	—	1029	500	
16.4	f	6	1640	429	940	—	1037	500	
16.6	f	7	1679	358	933	—	1040	500	
	f	2	1675	618	899	899	1026	500	
	f	8	1670	975	878	—	1021	500	
16.8	f	3	1689	416	830	831	1041	500	
17.0	f	9	1711	340	915	—	1040	500	
	f	4	1712	769	700	695	1018	500	
	f	5	1715	890	930	920	1022	500	
	f	10	1718	951	929	—	1018	500	
	f	11	1716	1048	782	—	1020	500	
17.2	f	6	1721	390	910	908	1034	500	
	f	12	1721	464	898	—	1031	500	
	f	7	1720	890	860	851	1020	500	
	f	13	1731	1010	938	—	1027	500	
		15	2080	732	560	—	1015	500	
		1	1801	495	670	—	1025	500	

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1930phae.proj.12750

Cl-Dk	Diff-Dk	Diff-Dk	Red Diff	Red. Diff	Mag.	L.N.O.
563	41	—	73	—		
565	178	—	315	—		
549	229	—	419	—		
542	278	—	515	—		
549	285	—	519	—		
530	314	—	594	—		
534	348	—	651	—		
543	376	—	695	—		
527	441	—	835	—		
532	336	—	630	—		1030 X
531	378	—	725	—		1043 X
530	440	—	830	—		
521	290	289	555	554	6.27, 6.24	
535	382	—	715	—		926 X
529	390	—	740	—		
534	440	—	825	—		
540	433	—	803	—		892 X
526	399	399	759	759	7.90, 7.90	
521	378	—	725	—		1104 X
541	330	331	610	611	6.7_2, 6.7_3	
548	415	—	770	—		880 X
518	200	195	386	376	4.85, 4.76	
522	430	420	825	805	8.38, 8.24	
518	429	—	829	—		1176 X
520	282	—	542	—		1214 X
534	410	408	770	768	7.98, 7.97	
531	398	—	749	—		907 ✓
520	360	351	679	675	7.29, 7.26	
527	438	—	830	—		1201 X
515	60	—	117	—		
525	170	—	324	—		

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1930phae.proj.12750

FMC R.H. 2167 July 25, 1920

Ship	class	star	y	x	Diff	Diff	cl	Dh	
		2	—	—	730	—	1015	500	
		3	—	—	777	—	1015	500	
		4	—	—	771	—	1021	500	
		5	—	—	798	—	1013	500	
		6	—	—	850	—	1021	500	
		7	—	—	845	—	1021	500	
		8	—	—	931	—	1012	500	
			RGP- R.H. 2167-		July 26, 1920				
		14	2080	775	530	—	1055	492	520
		1	1801	538	618	—	1050	497	
		2	—	—	681	—	1038	499	
		3	—	—	729	—	1039	500	
		4	—	—	741	—	1047	500	
		5	—	—	769	—	1036	500	
		6	—	—	808	—	1038	501	
		7	—	—	832	—	1039	500	
		8	—	—	931	—	1031	502	
17.4	D	8	1753	597	579	563	1046	502	
	P	14	1743	1116	880	—	1033	505	
17.6	D	9	1760	259	950	942	1050	508	
	P	15	1761	810	967	—	1051	509	
	D	10	1774	547	849	842	1050	510	
	D	11	1778	429	992	992	1048	510	
17.8	P	16	1785	561	969	—	1043	513	
	P	17	1780	592	923	—	1050	514	
	D		1778	429	991	989	1040	519	
	P	18	1774	1017	848	—	1041	517	
18.0	P	19	1816	279	961	—	1060	517	
	P	20	1810	311	1002	—	1064	519	
	P	21	1802	402	989	—	1057	518	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
515	230	—	445	—		
515	277	—	536	—		
521	271	—	520	—		
513	293	—	575	—		
521	350	—	670	—		
521	345	—	663	—		
512	431	—	842	—		
563	38	—	67	—		
553	121	—	218	—		
534	182	—	342	—		
539	229	—	424	—		
547	241	—	440	—		
536	269	—	502	—		
537	307	—	570	—		
539	332	—	616	—		
529	429	—	810	—		1235 X
544	77	61	144	112	3.59, 3.25	
528	375	—	710	—		870 X
542	442	434	815	800	8.39, 8.34	
542	458	—	848	—		
540	369	362	684	670	7.82, 7.74	
538	482	482	895	895	off curve	
530	456	—	860	—		
536	409	—	760	—		948 V
524	331	—	632	—		1208 X
543	444	—	813	—		807 X
545	483	—	882	—		
539	471	—	689	—		

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1930phae.proj.12750

XGP-RX#2167 - July 2[illegible], 1930

Strip	class	Star	y	x	Dyy	Dyx	cc	Dh
		12	1809	713	991	990	1047	519
		22	1809	991	857	—	1047	518
		13	1810	819	930	921	1043	520
		14	1809	1121	1001	997	1039	520
18.2		23	1829	633	967	—	1048	520
		24	1819	828	960	—	1047	520
		25	1830	1082	973	—	1040	520
18.4		26	1840	190	950	—	1067	522
		27	1859	329	801	—	1063	521
		28	1850	517	955	—	1057	521
		29	1850	769	983	—	1050	522
		15	1851	929	969	960	1045	521
		16	1842	1002	761	760	1053	523
		17	1851	1039	998	1003	1049	522
		30	1857	1065	973	—	1048	522
		31	1848	1101	980	—	1057	522
18.6		32	1860	280	904	—	1062	522
		33	1859	329	810	—	1056	523
		34	1877	640	973	—	1053	523
18.8		18	1890	723	1002	992	1052	527
		19	1881	796	817	812	1048	526
		35	1887	802	979	—	1050	527
		36	1880	878	945	—	1051	527
		37	1890	969	893	—	1043	527
		38	1879	977	826	—	1052	527
		39	1893	1041	1000	—	1050	528
		40	1892	1091	967	—	1049	528
		41	1893	1137	931	—	1053	527
		1A	2080	775	550	—	1049	527
		1	1801	538	638	—	1058	524

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L.No.
528	472	471	894	891	off curve	
529	339	—	642	—		1109 ✓
523	410	401	790	770	8.31, 8.21	
519	481	477	939	932	off curve	
528	447	—	850	—		975 x
527	440	—	834	—		
520	453	—	874	—		
545	428	—	776	—		
542	280	—	517	—		805 ✓
536	434	—	810	—		893 ✓
528	461	—	858	—		1100 x
524	448	439	859	839	8.51, 8.46	
530	238	237	749	748	8.11, 8.10	
527	476	481	902	911	off curve	
526	451	—	856	—		
535	458	—	847	—		
540	382	—	707	—		790 ✓
533	287	—	539	—		805 ✓
530	450	—	850	—		977 x
525	475	465	905	885	off curve	
522	291	286	557	548	7.03, 6.97	
523	452	—	862	—		
524	418	—	799	—		1189 ✓
516	376	—	729	—		1246 ✓
525	299	—	549	—		1242 ✓
522	472	—	907	—		1274 x
521	439	—	840	—		
506	404	—	799	—		8 x
522	23	—	44	—		
534	114	—	212	—		

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1930phae.proj.12750

Grp	class	Star	y	y	Dyl	Dyl	cl	Dk	Volt.
		2	—	—	704	—	1050	527	
		3	—	—	750	—	1050	527	
		4	—	—	742	—	1063	527	
		5	—	—	781	—	1053	524	
		6	—	—	819	—	1052	527	
		7	—	—	832	—	1059	522	
		8	—	—	942	—	1049	527	520
		26 Gp – B.H 2167 –			July 28, 1930				
		1A	2080	697	520	—	1020	469	520
		1	1801	458	632	—	1038	470	
		2	—	—	702	—	1020	470	
		3	—	—	751	—	1021	471	
		4	—	—	751	—	1030	472	
		5	—	—	781	—	1019	473	
		6	—	—	823	—	1020	475	
		7	—	—	840	—	1025	477	
		8	—	—	926	—	1013	478	
18.8	ℓ	20	1881	717	806	797	1022	480	
	ℓp	42	1886	723	953	—	1022	480	
	p	43	1880	783	924	—	1023	481	
	p	44	1890	889	879	—	1016	481	
	p	45	1879	898	817	—	1022	481	
	p	46	1892	1058	917	—	1009	481	
19.0	p	47	1901	098	920	—	1045	483	
	ℓ	21	1902	113	977	982	1037	483	
	ℓ	22	1909	251	827	828	1037	483	
	ℓ	23	1912	629	921	903	1020	484	
	ℓ	24	1907	699	737	732	1018	484	
	ℓ	25	1904	968	969	963	1023	488	
19.2	p	48	1930	202	951	—	1047	488	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. NO.
523	174	—	328	—		
523	223	—	427	—		
536	215	—	400	—		
529	257	—	483	—		
525	292	—	537	—		
524	310	—	586	—		
522	415	—	795	—		
551	51	—	93	—		
568	162	—	284	—		
550	232	—	421	—		
550	280	—	509	—		
558	279	—	500	—		
546	308	—	565	—		
545	348	—	638	—		
548	363	—	665	—		
535	448	—	836	—		
542	326	317	602	585	6.72, 7.33	
542	473	—	571	—		
542	443	—	818	—		1189 ✓
535	398	—	744	—		1246 ✓
541	336	—	620	—		1242 ✓
528	436	—	825	—		8 ×
562	447	—	797	—		758 ×
554	494	499	894	900	off curve	
554	344	345	621	623	6.87, 6.89	
536	437	419	812	780	8.35, 8.07	
534	253	248	472	465	5.81, 5.77	
535	481	475	900	889	off curve	
559	463	—	830	—		754 ×

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1930phae.proj.12750

agp — CH2167 - July 28, 1930

Strip	Class	Star	y	x	Defe	Defe	Ce	Ck	Volts
		49	1920	729	868	—	1016	489	
		26	1929	884	970	964	1020	489	
		50	1931	899	818	—	1026	490	
		27	1924	1048	949	954	1022	490	
		51	1937	1059	973	—	1020	490	
		52	1930	1067	983	—	1018	490	
		53	1929	1098	890	—	1019	490	
19.4		54	1949	233	920	—	1043	491	
		28	1950	469	871	852	1033	491	
		55	1942	512	940	—	1027	491	
		29	1941	808	965	961	1021	492	
		56	1950	873	921	—	1023	491	
		57	1947	897	970	—	1022	492	
		58	1952	907	973	—	1026	491	
		30	1950	1078	949	940	1020	492	
19.6		31	1960	289	980	978	1042	493	
		59	1968	951	953	—	1024	493	
		60	1961	982	950	—	1022	494	
19.8		61	1987	268	899	—	1043	493	
		62	1980	370	942	—	1033	493	
		63	1980	1037	942	—	1022	493	
		64	1980	1117	832	—	1016	493	
20.0		32	2004	138	977	967	1048	494	
		33	2010	310	910	907	1040	493	
		65	2002	382	914	—	1035	494	
		34	2010	439	836	827	1040	494	
		66	1994	578	891	—	1023	497	
		35	1997	591	967	960	1030	497	
		67	2011	968	708	—	1021	497	
		36	2009	1104	810	800	1010	497	

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1930phae.proj.1275D

d-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L.N.O.
527	379	—	720	—		1171 ✓
531	481	475	905	894	off curve	
536	328	—	610	—		1279 ✓
532	459	464	864	874	off curve	
530	483	—	912	—		
528	493	—	940	—		
529	400	—	758	—		23 X
552	429	—	775	—		
542	380	361	701	666	7.44, 7.19	
536	449	—	650	—		2035 X
529	473	469	912	887	off curve	
532	430	—	809	—		
530	478	—	903	—		
535	482	—	901	—		
528	457	448	869	848	off curve	
549	487	485	891	885	off curve	
531	460	—	865	—		
528	456	—	865	—		748 ✓
550	406	—	740	—		
540	449	—	831	—		778 X
529	449	—	849	—		
523	339	—	648	—		51 X
554	483	473	874	855	off curve	
547	417	414	764	758	7.95, 7.90	
541	420	—	775	—		765 ✓
546	342	333	625	590	6.88, 6.62	
526	394	—	749	—		2 X
533	470	463	900	886	off curve	
524	211	—	405	—		56 ✓
513	313	303	610	590	6.78, 6.62	

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1930phae.proj.12750

Kap-RH 2167 - July 28, 1930

Strip	Class	Star	y	x	Dyll	Dyll	cc	dk	Notes
20.2		37	2020	124	942	929	1052	494	
		68	2032	889	852	—	1021	492	
20.4		69	2058	241	838	—	1043	496	
20.6		70	2077	1068	950	—	1033	500	
20.8		38	2074	180	977	980	1058	500	
		71	2097	767	941	—	1035	500	
		39	2092	792	779	760	1048	500	
		72	2090	909	942	—	1022	500	
		40	2097	1082	900	941	1022	499	
		41	2090	1090	933	939	1028	500	
21.0		73	2117	019	889	—	1047	500	
		42	2099	186	898	910	1053	500	
		74	2100	199	903	—	1053	499	
		43	2101	274	548	547	1047	498	
		75	2102	318	952	—	1049	499	
		76	2098	409	979	—	1047	500	
		77	2110	420	973	—	1038	500	
		78	2112	742	980	—	1031	500	
		44	2102	750	977	970	1031	500	
		45	2111	757	917	915	1031	500	
		46	2110	953	802	803	1030	500	
21.2		79	2129	073	890	—	1049	500	
		80	2125	152	860	—	1049	500	
		47	2130	408	993	999	1044	500	
		48	2124	949	976	972	1023	500	
		81	2124	1017	901	—	1029	500	
		49	2120	1197	848	838	1022	500	
21.4		82	2142	262	916	—	1054	500	
		83	2144	437	728	—	1037	500	
		50	2138	788	962	958	1029	500	

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1930phae.proj.12750

Cl-dk	dyf-dk	dyf-dk	Red dyf	Red dyf.	Mag	L No.
558	448	435	802	777	8.24, 8.04	
529	360	—	680	—		62 ✓
547	342	—	625	—		713 ✓
533	450	—	845	—		90 X
558	477	480	855	860	off curve	
535	441	—	824	—		105 ✓
548	279	260	507	474	5.99, 5.77	
522	442	—	846	—		
523	451	442	861	845	off curve, 8.64	
528	433	433	819	819	8.99, 8.39	
547	389	—	710	—		683 X
553	398	410	720	740	7.59, 7.77	
554	504	—	910	—		688 ✓
549	150	149	273	271	4.21, 4.19	
550	457	—	830	—		
547	479	—	875	—		684 X
538	473	—	879	—		673 X
531	480	—	805	—		~~735~~
531	477	470	900	885	off curve	
531	417	415	785	782	8.11, 8.10	
530	302	303	570	572	6.49, 6.50	
549	390	—	710	—		681 X
549	360	—	655	—		679 ✓
544	493	499	905	919	off curve	
523	476	472	911	902	off curve	
529	401	—	756	—		118 ✓
522	348	338	667	648	7.19, 7.09	
554	516	—	931	—		664 X
537	228	—	424	—		
529	462	458	872	867	off curve	

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1930phae.proj.12750

Eq P - R H 2167 - July 28, 1930

Strip	Class	Star	y	x	Dep e	Dep f	Ce	Dk	Tot
1.6		51	2167	119	918	902	1051	499	
		52	2164	340	986	981	1049	499	
		53	2157	390	979	970	1040	500	
		84	2160	887	911	—	1028	500	
		85	2170	1000	901	—	1027	500	
		86	2170	1202	942	—	1013	500	
21.8		87	2180	259	810	—	1043	500	
		88	2188	329	723	—	1041	499	
		89	2187	383	851	—	1040	500	
		54	2190	910	833	835	1022	500	
		55	2179	1050	982	982	1019	500	
		90	2197	1181	939	—	1021	500	
22.0		91	2209	045	550	—	1050	500	
		56	2205	520	951	948	1037	500	
22.2		92	2228	071	877	—	1053	500	
		57	2220	099	990	982	1050	500	
		58	2218	108	972	961	1054	500	
		59	2220	224	913	921	1048	500	
		93	2237	266	720	—	1048	499	
		60	2229	662	967	963	1032	500	
		1s	2080	697	547	—	1010	500	
		1	1801	458	663	—	1038	499	
		2	—	—	727	—	1026	499	
		3	—	—	770	—	1020	499	
		4	—	—	768	—	1033	498	
		5	—	—	788	—	1023	500	
		6	—	—	834	—	1028	500	
		7	—	—	841	—	1032	499	
		8	—	—	940	—	1029	500	520

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1930phae.proj.12750

U-dk	Diff-dk	Diff-dk	Red diff	Red diff	Mag	L No
552	519	503	940	910	off curve	
550	487	482	885-	875-	off curve	
540	479	470	887	870	off curve	
528	411	—	776	—		
527	401	—	760	—		
513	442	—	860	—		120 x
543	310	—	570	—		642 ✓
542	324	—	598	—		625- ✓
540	351	—	650	—		601 ✓
522	333	335-	640	643	7.00, 7.01	
519	482	482	927	927	off curve	
521	439	—	844	—		135 x
550	50	—	91	—		660 x
537	451	448	836	835-	8.56, 8.56	
553	377	—	683	—		647 x
550	490	482	890	875-	off curve	
554	472	461	850	831	8.21, 8.51	
548	413	421	750	766	7.83, 7.95	
549	321	—	585-	—		606 ✓
532	467	463	880	870	off curve	
510	47	—	92	—		
539	163	—	302	—		
527	228	—	433	—		
521	271	—	520	—		
535-	265-	—	495-	—		
523	288	—	550	—		
528	334	—	630	—		
533	342	—	642	—		
529	440	—	830	—		

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1930phae.proj.12750

FMC R# 2167 July 29, 1930

Strip	Class	Star	y	x	Dyff	Dyff	ce	Dk	Tilt
		1s	2080	697	493	—	983	450	
		1	1801	458	620	—	999	450	
		2	—	—	690	—	984	451	
		3	—	—	740	—	987	451	
		4	—	—	740	—	990	452	
		5	—	—	768	—	980	452	
		6	—	—	814	—	987	453	
		7	—	—	810	—	990	453	
		8	—	—	900	—	985	454	
22.4	f	61	2240	114	882	880	1010	457	
	f	62	2240	180	709	710	1010	458	
	f	94	2250	880	702	—	992	459	
22.6	f	95	2278	290	793	—	1000	460	
	f	96	2279	1047	750	—	985	460	
22.8	f	63	2298	093	880	880	1006	460	
	f	64	2290	140	741	743	1005	460	
	f	65	2281	910	710	710	1000	460	
23.0	f	97	2309	913	780	—	1000	461	
	f	66	2308	430	769	769	990	461	
	f	98	2310	480	908	—	990	461	
	f	67	2318	728	900	898	989	461	
23.2	f	99	2330	223	880	—	1008	463	
	f	100	2339	687	755	—	985	463	
	f	68	2334	690	785	780	990	463	
23.4	f	101	2350	319	900	—	998	463	
	f	69	2340	618	851	846	985	463	
	f	102	2342	827	877	—	981	464	
	f	103	2343	930	789	—	973	464	
23.6	f	70	2379	590	810	808	989	464	
	f	104	2360	700	851	—	989	465	

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1930phae.proj.12750

cl-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Red Dfl	Mag.	L.NO.
533	43	—	83	—		
549	170	—	310	—		
533	239	—	448	—		
536	289	—	543	—		
538	288	—	526	—		
528	316	—	599	—		
534	361	—	676	—		
537	357	—	666	—		
531	446	—	840	—		
553	425	423	770	765	7.92, 7.87	
552	251	252	455	454	5.24, 5.23	
533	243	—	456	—		205 V
540	333	—	610	—		587 V
525	290	—	534	—		183 X
546	420	420	769	769	7.89, 7.89	
545	281	283	515	516	5.70, 5.71	
540	250	250	463	463	5.30, 5.30	
539	319	—	592	—		
529	308	308	581	581	6.23, 6.23	
529	447	—	845	—		496 X
528	439	437	830	836	8.55, 8.59	
545	417	—	766	—		583 V
525	292	—	554	—		376 V
527	322	317	610	602	6.48, 6.42	
535	437	—	630	—		
522	388	383	743	733	7.57 7.56	
517	413	—	800	—		274 L
509	325	—	639	—		240 C
525	346	344	660	655	6.90, 6.86	
524	386	—	739	—		338 V

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1930phae.proj.12750

Fmc R H 2167 July 29, 1930

Strip	class	star	y	y	Dec	Dec	α	Δh
23.6	fp	105	2379	834	760	—	990	463
23.8	fp	106	2388	1130	849	—	992	466
24.0	f	71	2402	367	825	819	988	465
	fp	107	2410	830	740	—	982	465
24.2	f	72	2421	511	767	763	990	465
	fp	108	2421	938	854	—	979	465
24.4	fp	109	2441	283	860	—	987	465
	fp	110	2452	564	891	—	981	465
	f	73	2439	706	860	858	982	465
	f	74	2457	820	908	895	980	464
	fp	111	2459	1015	900	—	980	465
	fp	112	2440	1060	680	—	977	465
24.6	fp	113	2460	284	612	—	990	465
	fp	114	2462	822	848	—	980	465
	fp	115	2470	1090	739	—	970	464
24.8	f	75	2485	991	899	891	981	465
25.0	fp	116	2518	302	870	—	989	465
	f	117	2500	501	840	—	986	465
25.2	fp	118	2539	1042	850	—	978	466
25.4	f	76	2541	259	859	861	998	465
	f	77	2540	930	683	683	988	463
	fp	119	2559	427	680	—	985	463
	fp	120	2549	720	885	—	989	464
	f	78	2558	852	684	681	980	465
	fp	121	2548	929	780	—	970	465
25.6	fp	122	2574	571	817	—	985	463
25.8	fp	123	2590	315	888	—	984	465
	fp	124	2599	460	860	—	981	463
	f	79	2582	562	833	830	990	464
	f	80	2589	690	618	630	978	463

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1930phae.proj.12750

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
527	297	—	564	—		279 ✓
526	383	—	736	—		206 x
523	360	354	690	677	7.15, 7.04	
517	275	—	530	—		294 ✓
525	302	298	575	547	6.16, 5.93	
514	389	—	758	—		264 x
522	395	—	754	—		541 ✓
516	426	—	830	—		425 ✓
517	395	393	764	760	7.87, 7.83	
516	444	431	860	835	8.92, 8.71	
515	435	—	845	—		225 x
512	215	—	421	—		239 x
525	147	—	280	—		536 x
515	383	—	734	—		
506	275	—	542	—		242 x
516	434	426	840	835	8.67, 8.60	
524	405	—	773	—		
521	375	—	720	—		451 ✓
512	384	—	750	—		
533	394	396	739	744	7.60, 7.63	
525	220	220	419	419	4.97, 4.97	
522	217	—	415	—		474 x
525	421	—	801	—		
515	219	216	425	420	5.00, 4.98	
505	315	—	622	—		297 x
522	354	—	680	—		420 x
519	423	—	812	—		509 x
518	397	—	763	—		457 x
526	369	366	701	695	7.27, 7.22	
515	155	167	301	324	4.16, 4.27	

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1930phae.proj.12750

fmc July 29, 1930 RH 2167

Sup.	class	star	y	x	Diff	Diff	cc	Dh
26.0	f	125	2685	555	691	—	985	463
26.6	f	81	2664	867	881	888	980	464
26.8	f	126	2690	521	890	—	985	463
		15	2080	697	528	—	979	461
		1	1801	458	652	—	991	462
		2	—	—	711	—	990	462
		3	—	—	759	—	990	462
		4	—	—	750	—	990	462
		5	—	—	778	—	980	462
		6	—	—	812	—	981	462
		7	—	—	823	—	990	463
		8	—	—	915	—	982	463

Plate finished

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1930phae.proj.12760

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO
522	228	—	436	—		426 X
516	417	424	810	820	8.33, 8.43	
522	427	—	820	—		
518	67	—	129	—		
529	190	—	360	—		
528	249	—	473	—		
528	291	—	532	—		
528	288	—	545	—		
518	316	—	610	—		
519	350	—	675	—		
527	360	—	682	—		
519	452	—	868	—		

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1930phae.proj.12750

XyP-RH 1999- Aug. 25, 1930

strip	class	star	y	x	Diff	Diff	dx	Dh	Volts
		10	1909	810	499	—	912	463	575
		1	2030	469	518	—	921	467	
		2	—	—	580	—	924	469	
		3	—	—	641	—	928	469	
		4	—	—	618	—	933	470	
		5	—	—	698	—	931	470	
		6	—	—	738	—	941	470	
		7	—	—	748	—	927	471	
		8	—	—	853	—	932	471	
14.2	∫	1	1419	792	722	720	926	472	
14.4	ρ	1	1459	621	818	—	929	473	
	∫	2	1450	687	602	602	912	472	
14.6	∫	3	1463	645	768	764	922	475	
	∫	4	1463	707	790	802	921	477	
	ρ	2	1470	1073	868	—	931	478	
14.8	∫	5	1486	581	860	848	932	478	
	ρ	3	1480	581	659	—	929	478	
	∫	6	1482	808	807	823	933	480	
	ρ	4	1479	810	803	—	931	479	
	ρ	5	1483	811	842	—	938	480	
	ρ	6	1480	864	738	—	932	480	
	∫	7	1490	868	632	636	930	480	
	∫	8	1479	877	789	783	932	480	
15.0	ρ	7	1501	767	841	—	927	481	
	∫	9	1511	859	890	891	927	481	
	ρ	8	1500	1090	843	—	938	482	
	∫	10	1490	1129	772	762	940	482	
15.2	ρ	9	1530	512	810	—	961	483	
	ρ	10	1522	585	853	—	922	483	
	ρ	11	1530	688	872	—	928	482	

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1930phae.proj.12750

cl-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Red Dfl	Mag	L.NO
449	36	—	80	—		
454	51	—	112	—		
455	111	—	244	—		
459	172	—	374	—		
463	148	—	320	—		
461	228	—	495	—		
471	268	—	570	—		
456	277	—	584	—		
461	382	—	830	—		
454	250	248	550	546	6.90, 6.87	
456	345	—	755	—		1235+
440	130	130	295	295	5.73, 5.73	
447	293	289	656	648	7.43, 7.37	
444	313	325	706	734	7.66, 7.77	
453	390	—	861	—		
454	382	370	832	815	8.33, 8.24	
451	181	—	401	—		1214+
453	327	343	723	758	7.74, 7.90	
452	324	—	716	—		23+
458	362	—	788	—		
452	258	—	570	—		51+
450	152	156	335	340	5.90, 5.93	
452	309	303	684	670	7.56, 7.49	
446	360	—	805	—		8+
446	409	410	916	919	off curve	
456	361	—	791			135+
458	290	280	648	625	7.39, 7.27	
478	327	—	684	—		1104+
439	370	—	841	—		1201+
446	390	—	845	—		

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1930phae.proj.12750

2 Jp - R 4 1999 — Aug 15, 1930.

Strip	Class Star	y	δ	Dyl	Dyl	cc	Dk	Plts
	11	1530	835	750	742	938	482	
	12	1538	982	718	722	937	483	
15.4	13	1540	568	815	821	933	484	
	14	1550	585	783	790	932	486	
	12	1544	749	862	—	933	487	
	15	1540	821	870	870	936	487	
	13	1553	837	866	—	937	487	
	16	1538	982	720	722	939	487	
15.6	14	1567	433	878	—	941	487	
	15	1570	550	854	—	930	489	
	16	1570	589	770	—	937	489	
	17	1559	847	820	820	941	489	
	17	1560	939	867	—	947	489	
	18	1560	952	618	619	935	489	
15.8	19	1590	507	622	624	942	489	
	20	1581	513	840	853	943	489	
	18	1580	1246	870	—	951	490	
16.0	21	1609	508	798	798	943	490	
	22	1600	892	890	888	937	490	
	23	1603	1242	840	831	948	490	
	19	1613	1250	813	—	943	490	
	24	1617	1267	861	871	967	490	
16.2	25	1621	436	857	857	947	490	
	20	1620	699	753	—	931	490	
	26	1623	728	869	879	933	491	
	21	1630	843	633	—	930	490	
	22	1624	967	832	—	949	490	
	27	1628	996	560	551	936	491	
16.4	23	1648	693	727	—	943	491	
	28	1643	952	899	900	946	491	

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1930phae.proj.12750

Cl. Dk	Diff. Dk	Diff. Dk	Red. Diff	Red Diff	Mag	L. No.
456	268	260	588	570	7.07, 7.00	
454	235	239	519	528	6.74, 6.79	
449	331	337	738	750	7.81, 7.87	
446	297	304	666	671	7.46, 7.49	
446	345	—	795	—		
449	383	383	851	851	8.47, 8.47	
450	379	—	843	—		
452	233	235	516	520	6.73, 6.75	
454	391	—	860	—		
441	365	—	829	—		1176+
448	281	—	625	—		
452	331	331	734	734	7.79, 7.79	
458	378	—	825	—		90+
446	129	130	290	292	5.68, 5.70	
453	133	135	294	298	5.69, 5.72	
454	351	364	773	800	8.02, 8.14	
461	380	—	825	—		
453	308	308	680	680	7.53, 7.53	
447	400	398	895	890	off curve	
458	350	341	763	743	7.93, 7.84	
453	323	—	713	—		206+
477	371	381	776	797	8.01, 8.10	
457	367	367	803	803	8.13, 8.13	
441	263	—	596	—		1251✓
442	378	388	865	880	8.53, 8.59	
440	143	—	326	—		56✓
459	342	—	745	—		118✓
445	69	60	155	135	4.85, 4.61	
452	236	—	524	—		1242✓
455	408	409	900	899	off curve	

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1930phae.proj.12750

ZJP - RH 1999 - Aug. 15, 1930.

Strip	Class	Star	y	x	Defl	Defl	cl	Dk	Volts
		29	1646	1099	852	853	952	492	
		24	1652	1119	710	—	945	491	
16.6		25	1670	591	808	—	933	491	
		26	1659	701	792	—	946	492	
		27	1663	747	712	—	938	492	
		28	1657	1001	832	—	947	491	
		30	1660	1188	862	861	952	492	
16.8		31	1682	492	822	828	949	491	
		32	1680	728	609	603	930	491	
		29	1692	752	847	—	940	491	
		33	1690	967	766	782	952	491	
		30	1681	1316	687	—	952	492	
17.0		34	1700	463	841	853	942	493	
		31	1710	837	762	—	948	494	
		32	1711	894	871	—	950	493	
		33	1700	1273	627	—	901	492	
		35	1712	1289	820	829	951	493	
17.2		34	1730	330	783	—	948	492	
		36	1735	397	868	873	952	493	
		35	1731	472	872	—	940	493	
		37	1731	1232	897	896	954	493	
17.4		36	1741	661	850	—	949	493	
		38	1740	1032	671	677	940	491	
		39	1752	1067	869	871	951	492	
		40	1751	1100	850	846	956	492	
		37	1748	1277	860	—	950	492	
		38	1748	1349	882	—	948	492	
		41	1751	1350	863	862	948	492	
		39	1750	1359	809	—	948	493	
17.6		40	1760	330	711	—	950	493	

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1930phae.proj.12750

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L.N.O.
460	360	361	782	784	8.08, 8.09	
454	219	—	421	—		183
442	317	—	707	—		1166
454	300	—	611	—		1246
446	220	—	492	—		1279
456	341	—	749	—		
460	370	369	805	804	8.17, 8.16	
458	331	337	699	734	7.61, 7.78	
439	118	112	268	255	5.58, 5.57	
449	356	—	795	—		
461	275	291	595	630	7.11, 7.28	
460	195	—	424	—		242
449	348	360	775	801	8.01, 8.13	
454	268	—	591	—		62
457	378	—	610	—		
409	135	—	366	—		239
458	327	336	712	731	7.70, 7.77	
456	291	—	636	—		1043
459	375	380	819	826	8.24, 8.24	
447	379	—	850	—		
461	404	403	875	874	8.57, 8.56	
456	357	—	782	—		1189
449	180	186	402	414	6.20, 6.25	
459	377	379	823	825	8.27, 8.28	
464	358	354	774	763	8.00, 7.93	
458	368	—	802	—		225
456	390	—	852	—		
456	371	370	811	810	8.22, 8.20	
455	316	—	695	—		
457	218	—	478	—		1030

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1930phae.proj.12750

Agl- RH 1999- August 15, 1920.

Strip	Class	Star	η	ξ	Dyll	Dyll	Cl	Dk	Tots
	p	41	1760	372	902	—	941	493	
	p	42	1760	376	792	—	949	493	
	p	43	1761	588	875	—	939	493	
	p	42	1770	608	860	858	941	493	
	p	44	1760	951	856	—	948	493	
17.8	p	45	1790	563	777	—	942	494	
	p	43	1781	665	607	601	930	493	
	p	44	1781	678	810	810	945	493	
	p	46	1783	1140	750	—	943	493	
18.0	p	47	1804	321	858	—	948	493	
	p	45	1810	827	710	708	948	493	
	p	48	1800	1033	678	—	941	493	
	p	46	1813	1109	858	857	947	493	
	p	47	1815	1157	749	750	957	494	
	p	49	1809	1217	829	—	949	493	
	p	48	1809	1279	771	772	942	493	
		10	1909	810	520	—	924	494	
		1	2030	469	555	—	946	493	
		2	—	—	599	—	937	493	
		3	—	—	642	—	940	493	
		4	—	—	632	—	938	492	
		5	—	—	710	—	942	493	
		6	—	—	753	—	953	493	
		7	—	—	760	—	941	494	
		8	—	—	870	—	943	493	505
	Agl-	RH	1999-	August 18,	1920				
		10	1909	828	498	—	919	470	525
		1	2030	488	531	—	1000	473	
		2	—	—	577	—	982	477	
		3	—	—	633	—	987	479	
		4	—	—	622	—	991	479	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Dfl	Red Defl	Mag.	L. No.
448	409	—	913	—		1044 + ↓
456	299	—	655	—		
446	382	—	855	—		
448	367	365	816	814	8.24, 8.23	
455	363	—	799	—		
448	283	—	630	—		1109 ✓
437	114	108	260	247	5.55, 5.49	
452	317	317	703	703	7.64, 7.64	
450	257	—	571	—		240 ✓
455	365	—	803	—		
455	217	215	476	473	6.53, 6.52	
448	185	—	413	—		205 ✓
454	365	364	805	804	8.18, 8.17	
463	255	256	550	554	6.89, 692	
456	336	—	735	—		264 +
449	278	279	620	621	7.23, 7.23	
430	26	—	60	—		
453	62	—	137	—		
444	106	—	239	—		
447	149	—	333	—		
446	140	—	314	—		
449	217	—	483	—		
460	260	—	565	—		
447	266	—	595	—		
450	377	—	837	—		
509	29	—	57	—		
527	58	—	110	—		
505	100	—	198	—		
508	154	—	302	—		
512	143	—	280	—		

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1930phae.proj.12750

XgP – R.A. 1999 – August 18, 1930

Strip	Class	Star	y	x	Dec.	Dec.	cl	Dk	Paths
		5	—	—	712	—	983	480	
		6	—	—	762	—	1000	481	
		7	—	—	770	—	977	481	
		8	—	—	892	—	981	481	
18.2		49	1830	438	870	853	972	483	
		50	1829	527	841	841	984	486	
		51	1822	549	739	741	984	488	
		52	1821	578	800	799	982	488	
		50	1820	692	789	—	971	489	
		53	1820	732	913	907	984	489	
		54	1829	1073	941	939	995	490	
		55	1831	1091	918	916	998	490	
		51	1838	1208	978	—	1000	491	
		56	1820	1249	942	932	1008	491	
		57	1818	1360	938	934	1000	492	
18.4		58	1850	410	922	884	1005	493	
		52	1850	869	891	—	999	493	
		59	1840	1080	842	840	997	494	
		60	1848	1159	877	867	1000	497	
		61	1843	1178	661	660	1008	497	
		62a	1847	1277	817	826	1007	498	
18.6	62b	~~5~~	1874	577	772	771	978	499	
		63a	1856	737	870	875	980	499	
	63b	~~61~~	1876	916	911	900	1001	500	
		64	1868	1041	949	941	1009	500	
		55	1861	1346	780	—	1000	500	
		65	1860	1376	830	830	1007	500	
18.8		66	1896	570	880	882	1001	501	
		67	1887	644	895	900	996	501	
		68	1882	763	808	807	981	500	

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1930phae.proj.12750

Cl-Ok	Defl-Ok	Defl-Ok	Red Defl	Red Defl	Mag	L.NO.
503	232	—	463	—		
519	281	—	543	—		
496	289	—	583	—		
500	411	—	821	—		
489	387	370	790	755	8.~~36~~ 27, 8.08	
498	355	355	713	713	7.90, 7.90	
496	251	253	505	509	6.80, 6.83	
494	312	311	632	630	7.46, 7.46	
482	300	—	624	—		1171
495	424	418	856	846	offcurve, 8.57	
505	451	449	891	889	offcurve	
508	428	426	844	840	8.57, 8.55	
509	487	—	955	—		273 or 6
517	451	441	871	851	offcurve 8.61	
508	446	442	876	868	offcurve	
512	429	391	839	765	8.~~24~~ 15, 8.15	
506	398	—	785	—		105
503	348	346	693	688	7.79, 7.76	
503	380	370	755	735	~~8~~.08, 7.99	
511	164	163	320	318	5.88, 5.86	
509	319	328	627	645	7.43, 7.53	
479	273	272	570	568	7.15, 7.12	
481	371	376	770	780	8.16, 8.21	
501	411	400	820	800	8.43, 8.31	
509	449	441	881	865	offcurve	
500	280	—	560	—		297
507	330	330	650	650	7.56, 7.56	
500	379	381	757	762	8.09, 8.12	
495	394	399	795	805	8.30, 8.35	
481	308	307	640	638	7.53, 7.50	

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1930phae.proj.12750

2JP-RH 1999- Aug. 18, 1930.

Strip	Class	Star	η	ξ	Dyll	Dyll	$\alpha\alpha$	Dk Volts
	p	56	1882	1121	884	—	1007	501
	p	57	1889	1155	751	—	1008	501
	f	69	1889	1211	893	891	1013	502
	f	70	1891	1275	848	850	1002	503
	f	71	1883	1407	904	907	991	502
19.0	f	72	1910	323	932	933	1000	504
	f	73	1897	329	949	937	1016	503
	f	74	1907	992	790	782	992	504
	f	75	1905	1013	699	700	1007	503
	f	76	1910	1099	828	840	1007	503
	p	58	1903	1183	742	—	1000	503
	p	59	1915	1457	888	—	1003	504
19.2	f	77	1930	297	804	800	1000	504
	f	78	1922	421	938	929	1014	503
	f	79	1929	508	800	802	1000	503
	f	80	1922	679	833	841	992	504
	p	60	1920	948	941	—	1000	504
	f	81	1932	1062	858	857	1002	504
	f	82	1920	1103	940	929	1010	504
	p	61	1930	1232	851	—	1013	505
19.4	f	83	1940	589	934	937	1009	506
	f	84	1953	1201	813	801	1017	506
	p	62	1940	1223	930	—	1009	506
19.6	p	63	1970	478	870	—	1000	507
	f	85	1978	693	933	938	1002	507
	f	86	1972	1089	839	838	997	506
19.8	p	64	1993	303	807	—	1009	507
	f	87	1998	553	610	612	1013	506
	p	65	1989	708	830	—	990	506
	f	88	1982	872	940	952	1003	507

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L.No
506	383	—	756	—		274 ✓
507	250	—	494	—		279 ✓
511	391	389	763	760	8.12, 8.10	
499	345	347	690	695	7.77, 7.80	
489	402	405	820	828	8.43, 8.41	
496	428	429	864	866	off curve	
513	446	434	869	846	off curve, 8.58	
488	286	278	586	570	7.22, 7.13	
504	196	197	387	387	6.18, 6.18	
504	325	337	645	668	7.53, 7.67	
497	239	—	483	—		294 ✓
499	384	—	767	—		318 +
496	300	296	605	597	7.31, 7.27	
511	435	426	851	833	8.62, 8.53	
497	297	299	598	602	7.28, 7.30	
488	329	337	673	~~762~~ 690	7.70, 7.80	
496	437	—	880	—		238 +
498	354	353	708	707	7.85, 7.84	
506	436	425	861	841	off curve, 8.57	
508	346	—	678	—		
503	428	431	851	855	8.61, off curve	
511	307	295	602	579	7.30, 7.19	
503	424	—	842	—		
493	363	—	737	—		948 ✓
495	426	431	860	870	off curve	
491	333	332	678	677	7.70, 7.69	
502	300	—	598	—		926 +
497	104	106	205	207	5.29, 5.30	
484	324	—	668	—		2N +
496	433	445	873	895	off curve	8

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1930phae.proj.12750

Wgp-RH 1999 - August 18, 1930

Strip	Class	Star	y	x	Dyll	Dyll	cc	dk Falls
20.0		89	2011	620	727	739	1007	507
		90	2011	753	876	900	972	507
		91	2011	978	519	520	974	503
		92	2013	1018	747	742	1003	507
		93	2006	1039	941	941	1003	507
		94	2013	1047	808	807	1000	506
		66	2008	1092	831	—	1008	506
		95	2000	1117	902	908	1003	506
20.2		67	2032	312	889	—	1010	507
		96	2014	393	930	929	1010	507
		68	2030	402	825	—	1015	507
		97	2030	402	918	918	1011	507
		98	2022	463	840	851	1003	507
		99	2023	472	869	891	1006	507
		69	2027	561	907	—	998	508
		100	2031	571	940	941	998	508
		70	2030	638	902	—	1010	508
		101	2022	1037	799	803	1002	508
		102	2032	1362	959	963	1007	509
20.4		103	2051	419	948	950	1004	507
		104	2050	429	867	861	1010	508
		105	2053	804	821	820	991	508
		106	2040	883	881	878	999	508
		107	2048	1109	940	931	1011	509
		108	2040	1174	876	888	1010	508
		71	2057	1273	893	—	1011	508
		109	2039	1307	960	951	999	508
		110	2040	1402	831	830	1001	508
20.6		111	2046	519	662	665	1000	508
		72	2068	522	897	—	1005	508

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1930phae.proj.12750

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
500	220	232	440	462	6.45, 6.56	
465	369	393	793	845	8.30, 8.57	
471	16	17	34	36	2.50, 2.70	
496	240	235	483	475	6.67, 6.63	
496	434	434	876	876	off curve	
494	302	301	608	608	7.35, 7.35	
502	325	—	649	—		338
497	396	402	795	809	8.29, 8.37	
503	382	—	762	—		
503	423	422	840	837	8.56, 8.54	
508	318	—	625	—		907
504	411	411	807	807	8.36, 8.36	
496	333	344	673	695	7.70, 7.81	
499	362	384	722	718	7.93, 7.90	
498	399	—	816	—		
490	432	433	880	881	off curve	
502	394	—	785	—		2035
494	291	295	587	595	7.22, 7.26	
498	458	454	902	910	off curve	
497	441	443	887	893	off curve	
502	359	353	714	703	7.90, 7.83	
483	313	322	650	668	7.56, 7.66	
491	373	370	760	754	8.10, 8.08	
502	431	422	858	840	off curve, 8.56	
502	368	380	734	758	7.98, 8.09	
503	385	—	764	—		364
491	452	443	919	902	off curve	
493	323	322	656	652	7.57, 7.56	
492	154	157	313	319	5.83, 5.87	
497	389	—	785			893

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1930phae.proj.12750

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ZgP-RH 1999 – Aug. 18, 1930

Strip	Class	Star	y	x	Dyfe	Dyfl	ce	dk	Volts
		112	2068	821	837	827	997	508	
		113	2063	1047	941	941	1002	508	
		73	2060	1049	732	—	999	507	
		74	2073	1168	920	—	1011	507	
		114	2078	1272	647	640	1000	507	
		10	1909	828	522	—	990	508	
		1	2030	488	557	—	1008	507	
		2	—	—	607	—	992	507	
		3	—	—	668	—	999	507	
		4	—	—	645	—	1001	507	
		5	—	—	722	—	991	507	
		6	—	—	786	—	1013	508	
		7	—	—	792	—	1004	507	
		8	—	—	912	—	1000	507	525
	ZgP-	RH	1999 –	Aug	19, 1930				
		10	1909	801	518	—	974	481	525
		1	2030	460	552	—	992	481	
		2	—	—	611	—	990	483	
		3	—	—	658	—	993	487	
		4	—	—	639	—	1003	487	
		5	—	—	728	—	1000	488	
		6	—	—	777	—	1009	488	
		7	—	—	778	—	983	478	
		8	—	—	902	—	995	489	
20.8		115	2080	375	803	790	1008	489	
		116	2099	387	703	700	999	489	
		117	2090	508	657	660	990	489	
		118	2095	693	860	857	997	490	
		119	2089	701	939	924	1007	491	
		120	2090	722	939	937	1000	491	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. NO
489	329	319	672	651	7.69, 7.57	
494	433	433	878	878	off curve	
492	225	—	458	—		376
504	413	—	821	—		
493	140	133	284	268	5.70, 5.63	
482	14	—	29	—		
501	50	—	100	—		
485	100	—	206	—		
492	159	—	323	—		
494	138	—	279	—		
484	215	—	445	—		
505	278	—	550	—		
497	285	—	574	—		
493	405	—	817	—		
493	37	—	75	—		
511	71	—	139	—		
507	128	—	253	—		
506	171	—	338	—		
516	152	—	295	—		
512	240	—	468	—		
521	289	—	555	—		
505	300	—	594	—		
506	413	—	816	—		
519	314	301	604	579	7.52, 7.41	
510	214	211	419	413	6.52, 6.51	
501	168	171	335	341	6.07, 6.12	
507	370	367	730	725	7.98, 7.96	
516	448	433	870	840	off curve 8.47	
509	448	446	881	874	off curve	

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1930phae.proj.12750

XgP – BH 1999 – Aug 19, 1930

Strip	Class	Star	y	x	Defl	Defl	Ce	dk	Volts
	P	121	2080	849	810	806	999	493	
	P	75	2091	1073	897	—	993	493	
	P	76	2091	1079	941	—	994	494	
	P	122	2090	1286	939	949	1007	497	
21.0	P	77	2112	295	870	—	1007	498	
	P	123	2111	657	766	777	994	497	
	P	124	2094	1177	940	934	1002	498	
	P	125	2110	1192	793	800	1009	498	
	P	126	2110	1427	947	947	1001	499	
21.2	P	127	2121	357	810	800	1003	499	
	P	128	2132	363	800	782	990	499	
	P	129	2126	387	627	617	1010	498	
	P	130	2120	628	831	831	1008	499	
	P	131	2120	1061	884	881	1008	500	
	P	132	2128	1318	950	941	1007	499	
	P	78	2129	1342	937	—	1007	500	
21.4	P	79	2140	321	830	—	1019	500	
	P	80	2152	477	912	—	1005	500	
	P	133	2143	523	949	967	1001	500	
	P	134	2140	760	891	867	1006	500	
21.6	P	135	2168	342	952	968	1013	500	
	P	136	2170	359	897	900	1007	500	
	P	137	2161	438	951	942	1008	500	
	P	138	2163	491	730	721	1015	500	
	P	81	2171	622	869	—	1008	500	
	P	139	2160	631	937	932	1008	500	
	P	140	2171	655	897	891	1003	500	
	P	82	2174	772	671	—	1000	500	
	P	83	2169	1107	893	—	1010	501	
	P	141	2160	1125	852	861	1008	501	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mags.	L.No.
506	317	313	627	620	7.58, 7.56	
506	404	—	807	—		
508	447	—	892	—		
510	442	452	864	884	off curve	
509	372	—	729	—		892+
497	269	280	541	564	7.22, 7.35	
504	442	436	875	864	off curve	
511	295	302	578	592	7.41, 7.47	
502	448	448	894	894	off curve	
504	311	301	616	597	7.55, 7.49	
491	301	283	613	577	7.55, 7.41	
512	129	119	253	234	5.61, 5.51	
509	332	332	650	650	7.66, 7.66	
508	384	381	754	749	8.07, 8.15	
508	451	442	866	865	off curve	
507	437	—	863	—		
519	330	—	636	—		
505	412	—	814	—		
501	449	467	898	936	off curve	
506	391	367	773	726	8.16, 7.97	
513	452	468	877	914	off curve	
507	397	400	782	790	8.20, 8.23	
508	451	442	887	866	off curve	
515	230	221	447	429	6.67, 6.58	
508	369	—	727	—		776+
508	437	432	860	850	off curve 8.50	
503	397	391	790	778	8.22, 8.18	
500	171	—	342	—		627
509	392	—	770	—		425
507	351	360	692	710	7.83, 7.91	

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1930phae.proj.12750

Zgp - RH 1999 - aug 19, 1930

Strip	Class	Star	x	y	Dyfl	Dyfl	Ce	Dk Plate
		142	2160	1137	751	748	998	501
		143	2172	1332	914	914	1010	501
		144	2173	1357	889	886	1010	501
21.8		145	2190	304	882	884	999	500
		146	2190	347	891	889	1009	500
		147	2190	382	900	890	1018	501
		148	2190	734	695	700	1007	502
		84	2189	731	930	—	1018	500
		149	2191	897	981	958	1019	502
		150	2186	901	939	949	1013	502
		151	2181	934	728	721	1012	502
		85	2192	943	912	—	1023	501
		152	2183	1017	878	881	1017	502
		153	2192	1033	860	861	1018	503
		154	2188	1173	881	870	1020	502
22.0		155	2211	450	937	920	1022	503
		156	2209	484	726	723	1019	503
		157	2200	1178	960	961	1009	504
		86	2202	1222	830	—	1022	503
		158	2205	1249	882	900	1018	503
		159	2210	1329	758	756	1013	503
		87	2200	1400	952	—	1017	504
		160	2210	1400	804	788	1019	503
22.2		161	2218	412	870	856	1017	504
		162	2220	578	950	970	1022	503
		163	2238	623	749	740	1014	504
		164	2220	813	952	940	1011	505
		88	2230	937	929	—	1008	504
		165	2229	984	930	936	1024	504
		166	2220	989	859	856	1019	503

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1930phae.proj.12700

Cl-Dk	Defl Dk	Defl Dk	Red Defl	Red Defl	Mag	L. No
497	250	247	504	498	7.05, 7.00	
509	413	413	811	811	8.32, 8.32	
509	388	385	762	757	8.11, 8.08	
499	382	384	763	767	8.11, 8.13	
509	391	389	768	764	8.13, 8.12	
517	399	389	774	754	8.18, 8.07	
505	193	198	382	392	6.34, 6.41	
518	430	—	830	—		684+
517	479	456	930	884	Ofcurve	
511	437	447	853	873	8.51, Ofcurve	
510	226	219	443	430	6.67, 6.60	
522	411	—	788	—		476+
515	376	379	730	735	7.97, 8.00	
515	357	358	693	692	7.83, 7.83	
518	379	368	730	709	7.99, 7.88	
519	434	417	836	802	8.44, 8.30	
516	223	220	431	427	6.62, 6.58	
505	456	457	903	904	Ofcurve	
519	327	—	635	—		420+
515	379	397	737	752	8.00, 8.07	
510	255	253	500	496	7.00, 6.97	
513	448	—	875	—		
516	301	285	581	551	7.46, 7.28	
513	366	352	712	685	7.93, 7.80	
519	447	467	860	897	8.54, Ofcurve	
510	245	236	480	463	6.85, 6.80	
506	447	435	882	860	Ofcurve, 8.57	
504	425	—	843	—		518+
520	426	432	817	828	8.34, 8.41	
516	356	353	689	683	7.80, 7.79	

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1930phae.proj.1275D

Hyp - RH 1999 - Aug 19, 1930

Strip	Class	Star	η	ζ	Dyl	Dyl	Cl	Dk	Volts
		167	2218	1039	853	861	1018	503	
		168	2222	1194	893	900	1023	503	
		89	2230	1243	718	—	1017	502	
		169	2233	1289	690	672	1020	503	
22.4		170	2248	408	982	967	1012	503	
		90	2242	441	710	—	1022	503	
		171	2241	562	912	911	1020	504	
		172	2240	609	632	643	1027	503	
		173	2238	624	747	731	1014	502	
		174	2242	706	835	831	1013	503	
		175	2240	729	550	546	999	501	
		91	2240	792	833	—	1013	501	
		176	2248	837	901	901	1019	502	
		177	2250	1049	913	921	1015	503	
		92	2242	1127	839	—	1022	502	
		93	2250	1238	942	—	1015	502	
22.6		178	2270	342	768	781	1018	501	
		179	2274	337	959	980	1024	502	
		180	2259	510	739	738	1011	502	
		94	2274	565	840	—	1010	501	
		181	2270	568	813	823	1006	501	
		182	2270	572	949	948	1004	501	
		95	2270	692	921	—	1020	501	
		183	2270	782	763	761	1010	501	
		96	2258	1187	947	—	1016	503	
		184	2269	1214	931	929	1021	501	
		185	2260	1303	804	799	1022	503	
22.8		97	2290	423	797	—	1014	500	
		186	2288	481	772	774	1011	500	
		98	2290	518	870	—	1012	500	

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1930phae.proj.12450

Ce–Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
515	350	358	678	697	7.78, 7.84	
520	390	397	751	764	8.05, 8.11	
515	216	—	418	—		
517	187	169	362	327	6.23, 6.04	
509	479	464	942	915	Of curve	
519	207	—	398	—		805
516	408	407	791	791	8.24, ~~7.60~~ 8.24	
524	129	140	247	267	5.56, 5.69	
512	245	229	480	450	6.88, 6.70	
510	332	328	650	645	7.67, 7.65	
498	49	45	98	90	4.00, 3.90	
512	332	—	649	—		601
517	399	399	773	773	8.13, 8.13	
512	410	418	802	815	8.30, 8.35	
520	337	—	649	—		451
513	440	—	855	—		426
517	267	279	518	542	7.10, 7.23	
522	457	478	876	920	Of curve	
509	237	231	470	454	6.82, 6.73	
509	349	—	686	—		
505	312	322	618	637	7.57, 7.62	
503	448	447	890	890	Of curve	
519	417	—	803	—		
509	262	260	515	512	7.09, 7.06	
513	443	—	863	—		442
520	430	428	827	825	8.39, 8.38	
519	301	296	578	575	7.40, 7.40	
514	297	—	578	—		790
511	272	274	532	536	7.18, 7.20	
512	370	—	723	—		

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1930phae.proj.12750

Kgp - KX 1999 - Aug 19, 1925

Strip	Class/Star		y	x	Dyfc	Dyfl	Cl	Dk	Tel
		187	2290	623	930	937	1014	501	
		188	2293	700	928	920	1019	501	
		99	2290	773	700	—	1007	500	
		189	2289	917	978	982	1013	501	
		100	2290	925	913	—	1010	501	
		190	2298	947	940	939	1020	501	
		101	2295	961	908	—	1011	501	
		102	2297	1127	949	—	1012	501	
		191	2295	1183	909	917	1013	501	
		103	2292	1311	882	—	1018	501	
23.0		104	2312	490	888	—	1019	500	
		192	2303	092	944	952	1016	501	
		105	2309	809	957	—	1020	502	
		193	2309	920	958	960	1017	502	
		194	2313	932	770	767	1013	501	
		195	2298	1048	958	973	1011	502	
		196	2313	1110	890	893	1028	502	
		197	2314	1112	687	691	1019	502	
23.2		198	2330	603	880	883	1007	502	
		199	2322	613	947	945	1017	502	
		106	2323	621	800	—	1014	502	
		200	2327	673	926	921	1012	502	
		107	2338	709	876	—	1012	502	
		201	2330	991	978	968	1019	503	
		202	2332	1081	880	882	1016	503	
		203	2321	1099	911	908	1008	502	
		108	2333	1152	709	—	1020	502	
		109	2320	1203	860	—	1010	501	
23.4		204	2343	425	909	903	1006	502	
		205	2351	453	760	768	1019	502	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. No
513	429	436	839	851	8.47, 8.51	
518	427	419	825	813	8.40, 8.32	
507	200	—	195	—		529+
512	477	481	938	942	off curve	
509	412	—	807	—		
519	439	438	846	847	8.49, 8.50	
510	407	—	795	—		
511	448	—	880	—		
512	408	416	800	813	8.28, 8.32	
517	381	—	737	—		
519	387	—	748	—		764+
515	443	451	860	875	8.54, off curve	
518	449	—	866	—		
515	456	458	884	891	off curve	
512	269	266	527	522	7.14, 7.13	
509	456	471	893	922	off curve	
526	388	391	738	745	8.00, 8.04	
517	185	199	354	386	6.20, 6.37	
505	378	381	750	756	8.05, 8.08	
515	445	443	863	860	off curve 8.55	
512	298	—	583	—		713
510	424	419	832	823	8.43, 8.40	
510	374	—	734	—		664+
516	475	465	920	901	off curve	
513	377	379	732	739	8.01, 8.01	
506	409	406	810	800	8.32, 8.27	
518	207	—	398	—		479+
509	359	—	706	—		451
506	407	401	802	792	8.30, 8.23	
517	258	266	501	514	7.02, 7.09	

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1930phae.proj.1275D

RP - RX 1999 - Aug 19, 1930

Strip	Class	Star	y	x	Dcpl	Dcpl	ce	Dk	Volts
	p	206	2342	659	878	869	1010	508	
	p	110	2353	743	773	—	1012	501	
	p	207	2343	843	942	930	1007	501	
	p	111	2350	881	789	—	1000	502	
	p	112	2353	893	900	—	1007	501	
23.6	p	113	2367	975	860	—	1020	502	
	p	208	2370	793	651	637	1004	501	
	p	114	2370	797	694	—	1010	501	
	p	116	2370	828	930	—	1004	501	
	p	116	2360	843	812	—	1006	501	
	p	117	2360	923	912	—	1017	502	
	p	118	2359	960	947	—	1009	502	
	p	119	2370	1071	937	—	1010	502	
	p	209	2360	1119	961	959	1017	503	
	p	120	2370	1190	940	—	1017	503	
	p	210	2377	1273	863	863	1020	503	
23.8	p	211	2379	646	932	925	1016	503	
	p	121	2380	647	890	—	1013	503	
	p	212	2380	762	732	731	1004	503	
	p	213	2379	1093	950	941	1018	503	
	p	214	2381	1039	840	853	1010	504	
	p	122	2380	1072	950	—	1018	503	
24.0	p	123	2403	429	898	—	1026	505	
	p	215	2410	447	873	911	1011	504	
	p	216	2410	451	890	878	1012	504	
	p	217	2403	717	930	930	1012	505	
	p	124	2401	1129	950	—	1018	504	
	p	218	2402	1148	944	936	1016	503	
	p	125	2394	1151	961	—	1016	504	
	p	219	2410	1186	960	953	1019	504	

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red. Defl	Mag.	L.No
507	375	366	740	723	8.01, 7.93	
511	272	—	531	—		642
506	441	429	870	847	affcurve, 8.50	
498	287	—	577	—		570
506	399	—	790	—		
518	358	—	691	—		
503	150	136	298	270	5.87, 5.71	
509	193	—	279	—		606
503	429	—	854	—		587
505	311	—	619	—		
515	410	—	797	—		
507	445	—	878	—		
508	435	—	852	—		508
514	458	456	892	885	affcurve	
514	437	—	851	—		
517	360	360	697	697	7.83, 7.83	
513	429	422	835	820	8.44, 8.36	
510	387	—	754	—		688
501	229	228	457	454	6.74, 6.73	
515	447	438	866	852	affcurve, 8.51	
506	336	349	665	690	7.72, 7.81	
515	447	—	866	—		515
521	393	—	755	—		758
507	369	407	729	726	7.98, 7.97	
508	386	374	770	736	8.15, 8.00	
507	425	425	840	840	8.47, 8.47	
514	446	—	870	—		
513	439	436	857	850	8.53, 8.50	
512	457	—	892	—		494
515	454	449	882	874	affcurve	

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1930phae.proj.1275D

2gp - R H 1999 - August 19, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	dk	Volts
24.2	p	126	2430	655	831	—	1000	501	
		220	2439	655	952	963	1000	502	
	p	127	2420	827	951	—	1006	501	
		221	2422	960	870	872	1007	501	
	p	128	2425	997	890	—	1013	502	
		222	2430	999	963	970	1017	501	
	p	129	2431	1013	657	—	1010	501	
	p	130	2432	1072	858	—	1010	501	
		223	2429	1158	920	920	1017	502	
24.4		224	2450	519	920	917	1014	502	
		225	2450	523	677	670	1004	501	
		226	2447	558	950	963	1014	502	
		227	2457	660	892	899	1004	502	
	p	131	2440	869	878	—	1001	502	
		228	2450	1081	959	957	1011	502	
		229	2450	1103	911	891	1010	502	
	p	132	2457	1112	933	—	1016	502	
	p	133	2450	1145	888	—	1011	502	
24.6		230	2469	604	950	957	1005	502	
		231	2461	808	691	682	1000	501	
		232	2461	909	887	895	1002	501	
24.8		233	2490	588	939	941	1012	502	
		234	2498	733	855	847	1007	502	
25.0	p	134	2508	630	842	—	1006	502	
		235	2502	681	888	897	1007	501	
		236	2499	774	851	852	1005	501	
25.2		237	2520	739	810	809	998	501	
		238	2528	741	612	611	1000	500	
25.4	p	135	2547	721	843	—	1009	501	
		239	2553	852	884	889	1000	502	

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1930phae.proj.1270

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. No.
499	330	—	662	—		679
498	450	461	902	923	Off curve	
505	450	—	890	—		
506	369	371	730	733	7.98, 8.01	
511	388	—	760	—		541
516	462	469	895	910	Off curve	
509	156	—	306	—		536
509	357	—	702	—		523
515	418	418	812	812	8.33, 8.33	
512	418	415	820	812	8.38, 8.33	
503	176	169	348	336	6.16, 6.09	
512	448	461	877	900	Off curve	
502	390	397	778	793	8.18, 8.33	
499	376	—	752	—		888
509	457	455	903	902	Off curve	
508	409	389	804	765	8.31, 8.12	
508	431	—	848	—		519
509	386	—	757	—		509
503	448	455	890	903	Off curve	
499	190	181	380	362	6.33, 6.23	
501	386	394	770	786	8.13, 8.21	
570	437	439	858	862	8.55, Off curve	
505	353	345	700	682	7.84, 7.80	
504	340	—	677	—		681
506	387	396	768	782	8.11, 8.21	
504	350	351	695	696	7.83, 7.84	
497	309	308	624	621	7.58, 7.57	
500	112	111	224	222	5.44, 5.43	
508	342	—	622	—		
498	382	387	764	775	8.11, 8.16	

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1930phae.proj.12750

DP- CH, 1999- Aug 19, 1930.

Strip	Class	Star	y	x	Dyf	Dxf	Cl	Dk	Folds
	f	240	2538	862	929	928	1003	501	
	f	241	2540	877	902	897	999	503	
	p	136	2551	978	947	—	1003	502	
	f	242	2541	1000	961	951	1009	503	
25.6	f	243	2559	657	916	889	1003	502	
	p	137	2563	693	965		1002	502	
	f	244	2569	719	700	690	994	502	
	f	245	2560	721	910	888	1007	502	
	p	138	2569	761	920	—	998	502	
	p	139	2572	771	940	—	993	502	
	p	140	2560	789	922	—	1005	503	
		10	1909	801	532	—	979	502	
Plate finished		1	2030	460	543	—	1003	502	
		2	—	—	597	—	991	502	
		3	—	—	652	—	999	503	
		4	—	—	630	—	1003	502	
		5	—	—	721	—	1001	503	
		6	—	—	774	—	1009	502	
		7	—	—	800	—	998	503	
		8	—	—	911	—	997	500 -	515

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1930phae.proj.12750

Cl-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Red Dfl	Mag:	L. NO
502	428	427	856	850	8.56, 8.50	
496	399	394	806	795	8.31, 8.25	
501	445	—	889	—		
506	458	448	908	888	off curve	
501	414	387	827	753	8.40, 8.04	
500	63	—	126	—	"	660 +
492	198	188	406	395	6.47, 6.41	
505	408	386	809	757	8.31, 8.02	
496	418	—	845	—		630 + −
491	438	—	893	—		
502	419	—	838	—		
477	30	—	63	—		
501	41	—	82	—		
489	95	—	194	—		
496	149	—	299	—		
501	128	—	256	—		
498	218	—	437	—		
507	272	—	535	—		
495	297	—	580	—		
497	411	—	826	—		

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1930phae.proj.1750

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