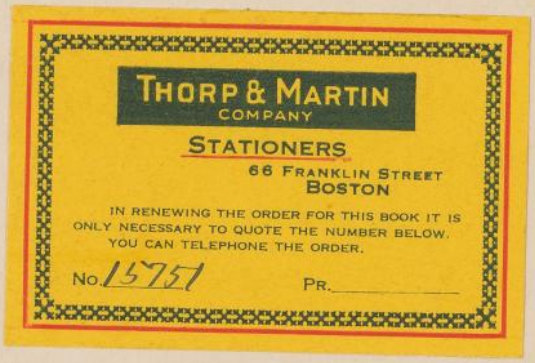
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2

MPD RH 1890 Feb 8, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volt
		1S	2040	762	085	—	1033	073	5.1
		1	1770	515	150	—	1082	074	
		2	—	—	288	—	1062	070	
		3	—	—	310	—	1065	072	
		4	—	—	280	—	1090	070	
		5	—	—	390	—	1080	080	
		6	—	—	520	—	1099	080	
		7	—	—	580	—	1120	079	
		8	—	—	840	—	1060	085	
22.0	fe	116	2210	145	758	—	1120	075	
	fe	117	2210	339	410	—	1106	080	
	fe	128	2202	704	620	630	1090	080	
	fe	129	2210	864	840	855	1060	080	
	fe	118	2200	952	350	—	1050	080	
	fe	130	2215	1000	515	520	1050	080	
22.2	fe	131	2225	934	848	850	1050	080	
	fe	119	2223	1121	430	—	1060	084	
22.4	fe	132	2256	100	620	627	1099	088	
	fe	120	2250	366	650	—	1106	089	
	fe	133	2242	755	715	750	1070	086	
22.6	fe	134	2266	1093	838	860	1067	093	
22.8	fe	121	2280	391	620	—	1110	090	
	fe	135	2292	852	800	825	1060	099	
	fe	122	2296	1010	544	—	1070	096	
23.0	fe	123	2307	300	820	—	1110	100	
	fe	136	2300	610	460	470	1084	100	
	fe	124	2300	714	415	—	1080	099	
	fe	137	2300	813	690	696	1050	097	
	fe	138	2300	879	846	852	1064	097	
	fe	125	2300	903	740	—	1060	100	

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1930phae.proj.1230

Cl.-Dk.	Dkfl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. Ks.
960	12	—	12	—		
908	76	—	84	—		
992	218	—	220	—		
993	238	—	240	—		
1020	210	—	206	—		
1000	310	—	310	—		
1019	440	—	432	—		
1041	501	—	482	—		
975	755	—	775	—		
1045	683	—	652	—		647 X
1026	330	—	321	—		606 ✓
1010	540	550	537	546	7.57, 7.60	
980	760	775	776	790	8.35, 8.39	
970	270	—	278	—		205 ✓
970	435	440	448	453	7.26, 7.28	
970	768	770	790	793	8.39, 8.40	
976	346	—	355	—		183 X
1011	532	539	524	532	7.53, 7.55	~~587~~
1017	561	—	553	—		587 ✓
984	629	664	637	672	7.89, 8.01	
974	745	767	763	787	8.31, 8.38	
1020	530	—	519	—		570 ✓
961	701	726	729	754	8.21, 8.27	
971	445	—	457	—		
1010	720	—	712	—		583 ✓
984	360	370	366	376	6.86, 6.92	
981	816	—	321	—		376 ✓
953	593	599	621	628	7.84, 7.87	
967	749	755	776	782	8.35, 8.37	
960	640	—	667	—		274 ✓

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4

mkD RH 1890 Feb 8, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volts
		18	2040	762	109	—	1056	100	5,T
		1	1770	515	165	—	1079	100	
		2	—	—	282	—	1060	100	
		3	—	—	296	—	1067	100	
		4	—	—	320	—	1080	100	
		5	—	—	387	—	1080	098	
		6	—	—	570	—	1084	100	
		7	—	—	558	—	1095	100	
		8	—	—	830	—	1070	100	

XgD- RH 1890 — Feb 10, 1930

		18	2040	797	078	—	942	059	570
		1	1770	549	167	—	989	058	
		2	—	—	259	—	984	063	
		3	—	—	320	—	982	070	
		4	—	—	322	—	1017	079	
		5	—	—	403	—	1011	081	
		6	—	—	523	—	1030	086	
		7	—	—	562	—	964	087	
		8	—	—	832	—	1029	092	
23.2	f	139	2319	208	329	340	1059	101	
	p	126	2328	430	890	—	1067	108	
	p	127	2320	812	751	—	1006	108	
	p	128	2331	947	527	—	999	111	
	p	129	2330	1243	780	—	1040	111	
	f	140	2332	1249	678	702	1051	107	
23.4	p	130	2337	507	897	—	1054	111	
	p	131	2351	957	976	—	1060	117	
	f	141	2353	1144	937	961	1047	119	
	f	142	2342	1178	847	910	1063	119	

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L.K.
956	09	—	9	—		
979	85	—	66	—		
960	182	—	190	—		
967	196	—	203	—		
980	220	—	224	—		
982	289	—	294	—		
984	400	—	406	—		
995	458	—	460	—		
970	730	—	750	—		
883	19	—	21	—		
931	109	—	118	—		
921	196	—	213	—		
912	250	—	274	—		
938	243	—	259	—		
930	322	—	346	—		
944	417	—	443	—		
877	475	—	540	—		
937	740	—	790	—		
958	228	239	239	249	5.66, 5.74	
959	782	—	813	—		
998	643	—	644	—		338
888	416	—	468	—		279
929	669	—	721	—		206
944	671	696	603	630	7.60, 7.70	
943	786	—	832	—		
943	859	—	910	—		
928	818	842	880	908	off curve	
944	725	791	785	852	8.34, off curve	

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XgP – R H 1890 – Feb. 10, 1930

Step	Class	Star	Y	Z	Dyl	Dyll	Cl	Dk	Falto
23.6	y	143	2362	712	891	930	1063	123	
	p	132	2360	738	902	—	1073	126	
	p	133	2363	739	963	—	1069	128	
	p	134	2363	944	496	—	1054	123	
	y	144	2360	960	928	968	1064	129	
	p	135	2372	1051	800	—	1051	128	
	y	145	2370	1169	891	888	1059	129	
	y	146	2370	1231	883	911	1063	131	
23.8	y	147	2390	987	937	930	1073	131	
	p	136	2384	1177	961	—	1062	128	
24.0	p	137	2416	927	950	—	1057	123	
	y	148	2403	958	403	463	1067	128	
	y	149	2402	973	839	831	993	119	
	p	138	2404	1131	901	—	1063	116	
	p	139	2417	1208	507	—	1047	117	
24.2	y	150	2431	498	920	909	1049	102	
	y	151	2422	603	830	818	1032	092	
	p	140	2420	681	823	—	1035	088	
	y	152	2430	708	877	928	1013	084	
	p	141	2417	780	853	—	1026	079	
	p	142	2420	940	712	—	1003	073	
24.4	p	143	2438	400	271	—	1028	071	
	y	153	2455	507	720	709	1032	070	
24.6	y	154	2467	962	733	848	1017	067	
	y	155	2472	069	361	328	1018	063	
	p	144	2469	620	728	—	1018	063	
	y	156	2463	651	839	857	1021	062	
	y	157	2470	877	910	912	1002	064	
24.8	p	145	2490	422	744	—	1019	071	
	y	158	2494	601	680	706	1018	079	

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Cl-Dk	Defl-Dk	Defl-Dk	Reduced	Reduced	Magn	L. No.
940	768	807	816	857	8.47, off curve	
947	776	—	818	—		
941	835	—	887	—		
931	373	—	402	—		294 ✓
935	799	839	852	893	off curve	
923	772	—	837	—		264 X
930	762	759	820	816	8.49, 8.47	
932	752	780	805	833	8.42, 8.54	
942	806	799	852	847	off curve	
934	233	—	250	—		239 X
928	827	—	890	—		
939	325	335	342	357	6.34, 6.44	
874	720	712	822	813	8.50, 8.45	
947	785	—	829	—		225 X
930	390	—	419	—		242 X
947	818	857	862	903	off curve	
940	738	726	786	772	8.35, 8.28	
950	735	—	773	—		425 ✓
949	793	844	837	892	8.55, off curve	
947	774	—	816	—		
930	639	—	687	—		
852	200	—	234	—		036 X
962	650	639	676	663	7.92, 7.86	✓
950	666	781	702	822	8.02, 8.50	
955	298	265	313	277	6.16, 5.95	
955	665	—	696	—		401 ✓
959	777	795	809	830	8.44, 8.53	
938	846	848	901	902	off curve	
948	673	—	711	—		523 X
939	601	627	640	668	7.75, 7.88	

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8

H JP – RH 1890 – Feb. 10/1930

Strip	Class	Star	y	z	Dyff	Dyff	cc	Dc	Volts
	f	159	2491	908	622	628	980	071	
	p	146	2498	1048	620	—	986	071	
	p	147	2482	1162	711	—	982	073	
25.0	f	160	2506	463	573	578	992	071	
	p	148	2508	840	862	—	965	071	
	f	161	2511	871	439	458	990	078	
25.2	f	162	2524	283	757	773	1013	073	
	f	163	2530	498	810	827	1013	076	
	f	164	2539	001	963	990	1012	073	
	p	149	2530	547	430	—	1020	073	
	f	165	2521	1031	872	880	992	077	
25.4	p	150	2540	693	697	—	1002	077	
25.6	p	151	2565	439	902	—	1019	080	
	p	152	2570	581	794	—	1016	079	
	p	153	2570	678	430	—	1018	080	
25.8	f	166	2579	607	673	680	997	080	
	f	167	2588	1014	898	920	1003	081	
26.0	p	154	2612	449	643	—	1003	083	
	f	168	2613	863	607	604	1003	084	
26.2	f	169	2627	897	920	894	994	084	
26.4	f	170	2650	824	702	670	987	081	
	p	155	2658	648	823	—	997	083	
	f	171	2650	827	701	787	990	079	
26.6	f	172	2660	847	591	602	980	081	
26.8	p	156	2680	627	430	—	1000	082	
		10	2040	797	100	—	956	088	
		1	1770	549	180	—	1000	090	
		2	—	—	288	—	990	091	
		3	—	—	309	—	979	092	
		4	—	—	329	—	1000	091	

Plate Finished

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Cl-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Red Dfl	Mag	L. No
909	551	557	606	611	7.61, 7.63	
815	549		673	—		297 X
909	638	—	707			
921	442	507	479	550	7.00, 7.34	
894	791	—	883			
912	361	380	395	417	6.64, 6.74	
940	684	700	727	743	8.10, 8.17	
937	734	751	782	800	8.33, 8.40	
939	290	317	309	336	6.14, 6.30	
947	357	—	378			474 X
915	795	803	868	876	off curve	
925	520	—	562	—		420 X
939	822	—	876	—		509 X
937	715	—	763	—		457 X
938	350	—	373	—		426 X
917	593	600	648	655	7.78, 7.83	
922	817	839	886	908	off curve	
920	560	—	609	—		498 X
919	513	520	558	565	7.38, 7.42	
910	836	810	918	890	off curve	
906	621	589	637	650	7.74, 7.80	
914	740	—	810	—		
911	622	708	682	776	7.93, 8.30	
899	510	521	567	580	7.43, 7.48	
918	353	—	385	—		
870	12	—	14	—		
910	90	—	99	—		
899	197	—	219	—		
887	211	—	238	—		
909	236	—	260	—		

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10

Strip	Class	Star	y	b	Dyl	Dyl	Cl	Dk	Falls
		5	—	—	349	—	990	091	
Date Finished		6	—	—	488	—	999	090	
		7	—	—	543	—	930	092	
		8	—	—	763	—	991	100	495

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Cl-Dk	Dfl-Dk	Dfl-Dk	Red Dfl	Red Dfl
899	288	—	320	—
909	398	—	437	—
838	451	—	537	—
891	663	—	744	—

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12

MRD R#1891, Feb. 11, 1930.

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volts
		1S	2030	754	080	—	980	075	5.2
		1	1773	498	094	—	1054	082	
		2	—	—	150	—	1067	085	
		3	—	—	180	—	1070	085	
		4	—	—	180	—	1040	080	
		5	—	—	256	—	1050	082	
		6	—	—	400	—	1029	080	
		7	—	—	460	—	1038	080	
		8	—	—	730	—	1055	080	
15.2	p	1	1532	680	362	—	1075	080	
	p	2	1521	706	505	—	1101	083	
	p	3	1520	847	710	—	1093	082	
15.4	p	4	1554	450	750	—	1075	080	
	p	5	1547	635	710	—	1103	084	
	f	1	1545	706	620	624	1090	080	
15.6	f	2	1560	480	644	649	1109	080	
	f	3	1580	488	200	190	1090	084	
	fp	6	1576	700	580	—	1070	080	
15.8	p	7	1593	450	510	—	1080	082	
	f	4	1595	797	530	515	1060	084	
16.0	p	8	1603	965	537	—	1108	085	
16.2	p	9	1620	419	700	—	1040	086	
	f	5	1623	523	580	575	1088	086	
	f	6	1623	651	310	300	1082	085	
	f	7	1630	790	282	288	1072	085	
		1S	2030	754	090	—	988	089	
		1	1773	498	110	—	1040	092	
		2	—	—	160	—	1075	090	
		3	—	—	183	—	1050	090	
		4	—	—	185	—	1040	085	

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Cl.-Dk	Defl-Dk.	Defl-Dk.	Reduced	Reduced	Magn.	L. No.
905	85	—	05	—		
972	12	—	12	—		
982	65	—	66	—		
985	95	—	96	—		
960	100	—	110	—		
968	174	—	180	—		
949	320	—	337	—		
958	380	—	396	—		
975	650	—	666	—		
995	282	—	284	—		1030 X
1018	422	—	414	—		1043 X
1011	628	—	622	—		1110 X
995	670	—	673	—		
1019	626	—	615	—		
1010	540	544	535	540	7.84, 7.85	
1029	564	569	548	553	7.87, 7.88	
1006	116	106	109	100	5.89, 5.80	
990	500	—	506	—		1044 X
998	428		430			926 X
976	446	431	453	442	7.55, 7.52	
1023	482	—	471	—		1104 X
954	614		644			
1002	494	489	493	487	7.69, 7.67	
997	225	215	226	217	6.70, 6.65	
987	197	203	200	206	6.55, 6.59	
899	01	—	01	—		
948	18	—	19	—		
985	70	—	71	—		
960	93	—	97	—		
955	100	—	104	—		

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MRD RH 1891, Feb 11, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volts	
		5	—	—	260	—	1044	088		
		6	—	—	390	—	1023	087		
		7	—	—	460	—	1012	081		
		8	—	—	740	—	1030	088		
		RJP-	RH	1891	- Feb 11,	1930				
		18	2030	754	069	—	883	061	520	
		1	1773	498	082	—	951	060		
		2	—	—	120	—	978	059		
		3	—	—	157	—	990	061		
		4	—	—	161	—	967	061		
		5	—	—	232	—	967	070		
		6	—	—	363	—	980	070		
		7	—	—	411	—	971	072		
		8	—	—	689	—	990	071		
16.4	f	8	1654	333	793	759	1015	073		
	p	10	1650	382	780	—	1013	071		
	f	9	1638	462	843	829	1040	079		
	p	11	1649	542	939	—	1051	078		
	f	10	1651	568	867	897	1030	080		
	f	11	1650	569	913	913	1052	088		
	f	12	1649	584	817	800	1052	088		
	p	12	1647	653	890	—	1050	081		
	f	13	1651	697	621	603	1051	081		
	p	13	1652	768	760	—	1045	081		
	f	14	1640	932	812	872	1067	081		
	p	14	1652	948	681	—	1052	081		
	p	15	1644	1040	249	—	1082	080		
	f	15	1651	1090	910	980	1067	084		
16.6	f	16	1663	247	913	870	1042	088		

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Cl-Dk	Deff-Dk	Deff-Dk	Reduced	Reduced	Magn	L. No.
956	172	—	180	—		
936	303	—	324	—		
931	379	—	407	—		
942	652	—	693	—		
822	08	—	10	—		
891	22	—	25	—		
919	61	—	66	—		
929	96	—	103	—		
906	100	—	111	—		
897	162	—	181	—		
910	293	—	322	—		
899	339	—	377	—		
919	618	—	674	—		
942	720	686	765	730	off curve	
942	709	—	753	—		
961	764	750	794	780	off curve	
973	861	—	837	—		
950	787	817	821	860	off curve	
964	825	825	855	855	off curve	
964	739	712	765	738	off curve	
969	809	—	835	—		
970	540	522	555	536	7.90, 7.84	
964	679	—	704	—		
986	731	791	741	801	off curve	
971	600	—	617	—		1176
1002	169	—	169	—		1214
983	826	896	840	910	off curve	
954	825	782	865	820	off curve	

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1930phae.proj.12730

HJP – RH 1891 – Feb 11, 1920

Grp	Class	Star	y	x	Dyl	Dyl	Cc	Dk	Plts
	p	16	1660	349	688	—	1049	084	
	f	17	1670	532	789	761	1041	087	
	f	18	1681	559	901	890	1042	081	
	f	19	1660	606	845	870	1054	080	
	p	17	1671	604	858	—	1048	081	
	p	18	1671	608	967	—	1041	081	
	f	20	1672	648	770	749	1063	083	
	f	21	1670	977	913	883	1068	089	
	p	19	1666	1003	792	—	1090	089	
	p	20	1670	1079	617	—	1079	086	
16.8	b	21	1693	210	426	—	1030	077	
	p	22	1697	384	649	—	1050	090	
	f	22	1690	559	708	642	1053	087	
	f	23	1683	699	933	951	1062	091	
	p	23	1690	992	843	—	1087	093	
	f	24	1690	1017	920	907	1080	089	
	f	25	1698	1090	363	370	1087	093	
17.0	f	26	1708	450	578	549	1017	093	
	p	24	1699	460	554	—	1053	091	
	f	27	1701	647	696	910	1060	090	
	f	28	1700	883	930	922	1060	085	
	p	25	1710	972	490	—	1054	086	
17.2	f	29	1731	188	261	248	1036	083	
	f	30	1729	279	577	540	1042	088	
	f	31	1720	429	161	162	1022	090	
	f	32	1730	583	470	423	1069	092	
	f	33	1720	653	573	930	1063	091	
	f	34	1718	668	898	880	1060	090	
	f	35	1719	784	653	648	1053	093	
	p	26	1725	819	900	—	1038	090	

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1930phae.proj.12710

Cl.-Dk.	Defl.-Dk.	Defl.-Dk	Reduced	Reduced	Magn.	L No.
965	604	—	625	—		892 ✓
954	702	674	735	705	off curve, 8.42	
961	820	809	854	841	off curve	
974	765	790	785	810	off curve	
967	777	—	805	—		
960	886	—	924	—		
980	687	666	700	680	8.40, 8.33	
979	824	794	840	810	off curve	
1001	703	—	703	—		1201 ✓
993	531	—	535	—		1235 ✓
953	349	—	366	—		844 ✓
960	559	—	583	—		880 ✓
966	621	555	643	575	8.19, 7.97	
971	842	860	866	885	off curve	
994	750	—	755	—		1207 ✓
991	831	818	839	826	off curve	
994	270	277	272	279	6.86, 6.90	
924	485	456	525	494	7.80, 7.67	
962	463	—	487	—		907 ✓
970	606	820	625	845	8.13, off curve	
975	845	837	865	860	off curve	
968	404	—	416	—		1208 ✓
953	178	165	187	173	6.47, 6.38	
954	489	452	513	474	7.75, 7.60	
932	71	72	76	77	5.34, 5.35	
977	378	331	386	336	7.27, 7.10	
972	782	829	805	864	off curve	
970	808	790	834	815	off curve	
960	560	555	585	577	8.00, 7.97	
976	810	—	855	—		

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1930phae.proj.12730

2gp - RN 1891 – Feb 11, 1930

Mag	Class	Star	y	x	Δefl	Δyfl	cl	Δk	Notes
	p	27	1731	873	583	—	1055	091	
	"	36	1731	883	921	907	1056	092	
	"	37	1729	912	840	807	1048	093	
	"	38	1749	990	898	910	1057	093	
17.4	"	39	1741	188	830	817	1032	090	
	p	28	1750	268	762	—	1043	090	
	"	40	1749	300	881	872	1029	090	
	"	41	1752	470	740	749	1034	089	
	p	29	1750	549	622	—	1037	088	
	"	42	1740	619	827	826	1041	090	
	"	43	1740	950	348	322	1060	089	
17.6	p	30	1760	163	490	—	1028	092	
	"	44	1760	394	631	596	1017	088	
	p	31	1756	521	770	—	1037	091	
	"	45	1758	607	763	730	1028	093	
	"	46	1768	629	697	710	1026	093	
	"	47	1759	680	443	444	1028	089	
	"	48	1760	688	666	687	1027	091	
	p	32	1760	752	543	—	1051	092	
	p	33	1769	789	776	—	1050	092	
	p	34	1760	1043	807	—	1049	093	
	p	35	1773	1062	780	—	1049	093	
	p	36	1771	1161	851	—	1058	092	
17.8	"	49	1790	240	706	711	1018	092	
	"	50	1791	261	867	813	1018	090	
	"	51	1783	287	867	976	1029	091	
	"	52	1787	350	871	884	1027	090	
	p	37	1784	363	834	—	1019	091	
	"	53	1792	368	790	758	1012	092	
	p	38	1788	416	890	—	1029	093	

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1930phae.proj.12730

Cl. Dk.	Defl. Dk	Defl.-Dk	Reduced	Reduced	Magn.	B.Ks.
964	492	—	510	—		1166 ✓
964	829	815	861	847	off curve	
950	754	714	799	752	off curve	
964	805	817	836	848	off curve	
942	740	727	787	774	off curve	
953	672	—	705	—		840 X
939	791	782	844	834	off curve	
945	651	660	690	699	8.35, 8.39	
949	534	—	563	—		948 ✓
951	737	736	775	774	off curve	
971	259	233	267	240	6.85, 6.74	
936	398	—	425	—		809 X
929	543	508	584	547	8.00, 7.84	
946	679	—	716	—		
935	670	637	718	682	8.46, 8.33	
933	604	617	647	661	8.21, 8.25	
939	354	355	376	378	7.25, 7.25	
936	575	596	615	638	8.10, 8.18	
959	451	—	470	—		1109 ✓
958	684	—	714	—		
956	714	—	745	—		
956	687	—	720	—		
966	759	—	785	—		
926	614	619	662	667	8.25, 8.27	
928	777	723	837	779	off curve	
938	776	885	830	945	off curve	
937	781	794	835	846	off curve	
928	743	—	800	—		
920	698	666	760	725	off curve, 8.47	
936	797	—	850	—		

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1930phae.proj.12730

Hgp – RH 1891 – Feb 11, 1930

Mag	Class	Star	y	x	Dyff	Dyff	cl	Dk	Volts
	f	54	1780	561	532	510	1014	094	
	p	39	1791	597	777	—	1047	092	
	f	55	1790	624	842	793	1038	096	
	f	56	1780	793	249	252	1037	092	
	f	57	1780	952	869	840	1049	092	
	p	40	1787	1028	819	—	1042	097	
		10	2030	754	099	—	943	092	
		1	1773	498	118	—	1008	093	
		2	—	—	160	—	1027	093	
		3	—	—	190	—	1027	092	
		4	—	—	190	—	1050	088	
		5	—	—	269	—	990	091	
		6	—	—	403	—	990	092	
		7	—	—	439	—	993	093	
		8	—	—	706	—	1001	097	515
	Hgp	—	RH	1891 –	Feb	12, 1930			
		10	2020	699	097	—	987	099	525
		1	1773	442	113	—	1029	090	
		2	—	—	148	—	1024	089	
		3	—	—	190	—	1029	083	
		4	—	—	189	—	1004	088	
		5	—	—	262	—	987	082	
		6	—	—	378	—	973	082	
		7	—	—	427	—	981	086	
		8	—	—	688	—	993	088	
18.0	p	41	1807	183	687	—	999	088	
	f	58	1816	288	779	770	990	089	
	f	59	1802	677	342	319	1012	087	
	p	42	1808	678	842	—	989	086	
	p	43	1810	909	430	—	1024	090	

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1930phae.proj.12730

Q.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
920	438	416	476	453	7.61, 7.52	
955	685	—	716	—		945 X
942	746	697	794	741	off curve	
945	147	150	155	158	6.25, 6.28	
957	771	748	811	781	off curve	
946	722	—	764	—		
851	07	—	08	—		
915	25	—	27	—		
924	67	—	73	—		
935	98	—	105	—		
912	102	—	112	—		
899	178	—	199	—		
898	311	—	346	—		
900	346	—	384	—		
904	609	—	673	—		
888	−2	—		—		
939	23	—	25	—		
935	59	—	63	—		
946	107	—	113	—		
916	101	—	109	—		
905	180	—	198	—		
891	296	—	332	—		
895	341	—	382	—		
845	600	—	710	—		
911	599	—	657	—		807 X
901	690	681	766	737	off curve	
925	255	222	276	251	6.84, 6.73	
903	756	—	839	—		1100 X
934	340	—	364	—		1251 ✓

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1930phae.proj.12730

22

Dec gp - R H 1891 - Feb 17, 1930.

Strip	Class	Star	γ	δ	Defl	Defl	α	Δk	Date
	p	44	1797	918	687	—	1029	090	
18.2	p	45	1821	423	797	—	1021	091	
	p	60	1831	547	858	878	1007	087	
	p	46	1832	617	830	—	1022	088	
	p	47	1827	785	700	—	1007	091	
	p	61	1833	783	710	710	1012	090	
	p	62	1820	871	613	594	1012	091	
	p	48	1828	879	523	—	1028	090	
	p	49	1816	887	380	—	1012	091	
	p	50	1828	951	842	—	1047	096	
	p	63	1830	952	268	270	1018	090	
	p	51	1820	1001	792	—	1051	090	
	p	52	1820	1048	633	—	1039	090	
18.4	p	64	1840	070	849	830	1020	093	
	p	53	1840	100	608	—	1013	093	
	p	54	1850	191	562	—	1030	097	
	p	55	1843	229	363	—	1028	091	
	p	56	1857	230	862	—	1028	097	
	p	65	1840	330	659	641	1023	093	
	p	57	1840	398	770	—	1016	096	
	p	66	1837	340	850	907	1029	098	
	p	58	1840	478	731	—	1007	099	
	p	59	1840	551	760	—	1023	100	
	p	60	1839	713	763	—	1001	098	
	p	61	1857	1060	851	—	1067	101	
	p	62	1854	1083	688	—	1051	099	
	p	63	1860	1089	538	—	1048	100	
	p	67	1848	1122	753	800	1048	099	
18.6	p	68	1878	507	200	196	1027	100	
	p	64	1870	722	504	—	1032	102	

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1930phae.proj.12763

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
939	597	—	637	—		1244 ✓
930	706	—	760	—		
920	771	791	838	859	off curve	
934	742	—	793	—		1046 +
916	609	—	665	—		1189 ✓
922	610	610	661	661	8.24, 8.24	
921	522	503	565	545	7.95, 7.88	
938	433	—	460	—		1246 ✓
921	289	—	313	—		1242 ✓
951	756	—	793	—		1274 +
928	178	180	193	195	6.38, 6.39	
961	702	—	730	—		
949	543	—	572	—		8 +
927	756	737	814	795	off curve	
920	505	—	548	—		
933	465	—	500	—		790 ✓
937	272	—	290	—		805 ✓
931	765	—	823	—		
930	566	548	610	591	8.10, 8.04	
920	674	—	734	—		
925	752	809	814	876	off curve	
908	632	—	697	—		
923	660	—	715	—		977 +
903	665	—	737	—		
966	750	—	777	—		
952	589	—	620	—		23 +
948	438	—	463	—		23
949	654	701	690	739	8.31, 8.43	
927	100	96	108	104	5.62, 5.55	✓
930	402	—	432	—		1171

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24

NGP – R H 1891 – Feb 12, 1930

Strip	Class	Star	α	δ	Defl	Defl	cl	dk	Volts
	p	69	1859	847	752	762	1033	101	
	p	65	1870	891	339	—	1060	108	
	p	70	1871	936	513	508	1049	102	
	p	71	1858	960	890	903	1026	101	
	p	72	1870	1028	710	710	1052	103	
	p	66	1861	1052	872	—	1053	101	
	p	67	1874	1102	908	—	1047	102	
18.8	p	73	1887	098	936	900	1024	100	
	p	74	1880	252	927	317	1022	099	
	p	75	1889	280	443	444	1021	102	
	p	76	1890	638	681	611	1022	101	
	p	68	1889	869	690	—	1028	106	
	p	69	1883	891	888	—	1037	100	
	p	70	1890	901	840	—	1042	101	
	p	71	1891	979	758	—	1030	103	
	p	77	1880	980	692	684	1043	103	
	p	72	1880	1062	871	—	1047	101	
	p	78	1898	1159	247	242	1052	105	
19.0	p	73	1902	091	691	—	1024	109	
	p	79	1911	163	558	558	993	108	
	p	80	1901	453	912	900	1031	110	
	p	74	1910	508	750	—	1033	108	
	p	81	1909	601	860	880	1030	107	
	p	82	1917	603	648	640	1019	108	
	p	75	1901	948	812	—	1051	110	
	p	76	1910	1010	960	—	1050	108	
	p	77	1908	1032	728	—	1058	108	
	p	78	1901	1112	351	—	1033	107	
19.2	p	79	1920	198	701	—	1030	110	
	p	80	1896	230	670	—	1024	112	

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1930phae.proj.12730

Cl.-Dk.	Defl.-Ok	Defl.-Dk	Reduced	Reduced	Mag	L. No.
932	651	661	698	709	8.33, 8.35	
957	236	—	247	—		1279 ✓
947	411	406	434	428	7.47, 7.46	
922	789	802	855	869	off curve	
949	607	607	639	640	8.18, 8.18	
952	771	—	810	—		
945	806	—	852	—		
924	836	800	904	865	off curve	
923	228	218	246	235	6.67, 6.64	
919	341	342	370	371	7.25, 7.25	
921	580	510	629	553	8.15, 7.92	
922	584	—	633	—		
937	788	—	841	—		
941	739	—	782	—		
927	655	—	706	—		
940	589	581	626	618	8.14, 8.12	
946	770	—	813	—		
947	142	137	150	145	6.02, 5.97	
915	582	—	636	—		758 +
885	450	450	508	508	7.76, 7.76	
921	802	890	870	966	off curve	
925	642	—	693	—		
923	753	773	815	837	off curve	
911	540	532	592	583	8.04, 8.02	
941	702	—	745	—		
942	852	—	904	—		42 x
1050	620	—	589	—		
926	274	—	296	—		51 x
920	691	—	752	—		764 x
912	568	—	612	—		

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HJP – RH 1891 – Feb. 12, 1930

Strip	Class	Star	ny	Ce	Dyl	Depl	Ce	Dk	Plts
	f	83	1961	592	398	832	1037	122	
19.4	f	84	1950	168	827	803	1029	123	
	p	81	1949	209	889	—	1010	122	
	p	82	1957	369	760	—	1011	126	
	f	85	1940	404	913	912	1027	123	
	f	86	1945	410	800	763	1027	123	
	p	83	1958	577	560	—	1053	137	
	p	84	1940	590	878	—	1051	139	
	p	85	1939	758	888	—	1038	141	
	f	87	1959	876	458	592	1028	132	
	p	86	1946	968	291	—	1040	131	
		10	2030	699	132	—	977	127	
		1	1773	442	151	—	1023	128	
		2	—	—	201	—	1062	129	
		3	—	—	240	—	1042	127	
		4	—	—	233	—	1037	127	
		5	—	—	304	—	1004	123	
		6	—	—	437	—	1016	130	
		7	—	—	481	—	1013	126	
		8	—	—	720	—	1019	124	515

MRD RH 1891, Feb. 13, 1930 5.1

18	2030	770	115	—	955	112	
1	1773	511	159	—	1010	125	
2	—	—	286	—	1080	130	
3	—	—	340	—	1075	145	
4	—	—	340	—	1090	145	
5	—	—	410	—	1074	150	
6	—	—	500	—	1035	148	
7	—	—	540	—	1038	140	
8	—	—	760	—	1017	132	

front door open during increasing of sequence

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L.Ks.
915	216	210	235	229	6.63, 6.59	
910	704	680	773	747	offcurve	
888	767	—	864	—		
885	624	—	705	—		778+
904	790	789	874	873	offcurve	
904	677	640	750	708	offcurve, 8.35	
926	423	—	457	—		22+
912	739	—	811	—		1046✓
897	747	—	832	—		
896	326	460	363	513	7.24, 7.77	
909	100	—	110	—		56✓
850	05	—	06	—		
895	23	—	26	—		
933	72	—	77	—		
915	113	—	123	—		
910	106	—	107	—		
881	181	—	205	—		
886	307	—	346	—		
887	355	—	402	—		
895	596	—	665	—		
843	03	—	04	—		
885	34	—	38	—		
950	150	—	158	—		
930	195	—	209	—		
945	195	—	206	—		
924	260	—	281	—		
887	352	—	397	—		
898	400	—	445	—		
885	628	—	710	—		

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1930phae.proj.12730

MkD RH 1891. Feb. 13, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk Volts
19.6	f	88	1970	190	760	740	1045	135
	p	87	1971	334	675	—	1042	138
	f	89	1962	742	780	795	1087	145
	p	88	1970	958	580	—	1100	150
19.8	f	90	1980	103	745	744	1095	146
	p	89	1980	450	760	—	1075	150
	f	91	1992	942	750	760	1068	147
20.0	f	92	2008	720	525	530	1032	130
	p	90	2000	1140	770	—	1080	140
20.2	f	93	2030	930	240	230	1045	134
	p	91	2025	982	768	—	1059	134
	f	94	2020	1160	520	520	1074	135
20.4	p	92	2043	313	570	—	1045	135
	f	95	2050	372	370	345	1023	130
	f	96	2040	880	800	772	1040	140
	p	93	2052	1092	680	—	1064	140
	f	97	2040	1274	770	755	1060	140
20.6	f	98	2070	140	750	735	1025	140
	f	99	2062	145	465	450	1030	135
	f	100	2059	348	730	730	1039	136
	f	101	2067	500	300	300	1050	140
	f	102	2070	630	628	628	1025	140
	f	103	2070	680	635	610	1055	142
	f	104	2060	1082	690	680	1055	141
	f	15	2030	770	150	—	978	140
		1	1773	511	180	—	1050	150
		2	—	—	900	—	1078	150
		3	—	—	315	—	1075	147
		4	—	—	315	—	1060	140
		5	—	—	360	—	1062	150

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk.	Defl.-Db	Reduced	Reduced	Magn.	Log r.
910	625	605	685	665	8.27, 8.20	
904	537	—	595	—		748 ✓
942	635	650	675	690	8.25, 8.28	
950	430	—	454	—		62 ✓
949	599	598	630	630	8.07, 8.07	
925	610	—	660	—		765 ✓
921	603	613	655	665	8.16, 8.20	
902	395	400	438	444	7.35, 7.38	
940	630	—	670	—		90 ✓
911	106	96	116	105	5.15, 5.03	
925	634	—	685	—		~~473~~
939	385	385	410	410	7.25, 7.25	
910	435	—	477	—		713 ✓
893	240	245	269	274	6.54, 6.55	
900	660	632	734	702	8.40, 8.32	
924	540	—	585	—		118 ✓
920	630	615	685	670	8.27, 8.23	
885	610	595	690	673	8.28, 8.24	
896	330	315	368	352	7.08, 7.00	
903	594	594	657	657	8.17, 8.17	
910	160	160	176	176	5.76, 5.76	
885	488	488	550	550	7.78, 7.78	
913	493	468	540	514	7.74, 7.64	
914	549	549	600	600	7.95, 7.95	
838	10	—	12	—		
900	30	—	33	—		
928	150	—	162	—		
928	168	—	181	—		
920	175	—	190	—		
912	210	—	231	—		

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MRD RH 1891 Feb. 13, 1930

Strip	Class	Star	y	x	Defl	Defl	Q	Dk	Volts
		6	—	—	470	—	1040	150	
		7	—	—	630	—	1040	150	
		8	—	—	780	—	1058	152	

KJP – RH 1891 – Feb. 13, 1930

		10	2020	770	130	—	933	123	520
		1	1773	511	172	—	982	122	
		2	—	—	280	—	1019	122	
		3	—	—	311	—	1019	126	
		4	—	—	290	—	1014	130	
		5	—	—	341	—	1017	132	
		6	—	—	470	—	1003	137	
		7	—	—	499	—	1012	138	
		8	—	—	779	—	965	143	
20.8	f	105	2088	252	818	791	1024	142	
	p	94	2090	276	749	—	1023	141	
	f	106	2090	323	786	782	1031	140	
	p	95	2083	393	807	—	1032	137	
	p	96	2099	964	717	—	1029	137	
	f	107	2082	1131	837	810	1049	141	
21.0	p	97	2112	411	923	—	1037	141	
	f	108	2100	516	763	757	1028	142	
	p	98	2099	967	738	—	1044	140	
	p	99	2107	1080	682	—	1033	139	
	f	109	2102	1137	608	629	1039	137	
	f	110	2110	1157	790	760	1052	141	
	p	100	2111	1262	737	—	1052	141	
21.2	p	101	2120	098	627	—	1037	149	
	f	111	2130	133	752	759	1034	153	
	p	102	2129	152	628	—	1040	161	

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red	Rd. Defl	Mag	L. No.
890	320	—	354	—		
890	380	—	427.	—		
906	628	—	695	—		
810	07	—	09	—		
860	50	—	58.	—		
897	158	—	177	—		
893	185	—	207	—		
884	160	—	181	—		
885	209	—	237	—		
866	333	—	385	—		
874	355	—	406	—		
822	636		774	—		
882	676	649	767	737	8.28, 8.24	
882	608	—	691	—		688 ✓
891	646	642	725	722	8.22, 8.21	
895	670	—	749	—		
892	580	—	652	—		
908	696	669	767	736	8.28, 8.24	
896	782	—	873	—		
881	621	615	705	698	8.19, 8.17	
904	598	—	663	—		
894	543		609	—		
896	471	492	527	549	7.78, 7.85	
911	649	619	713	680	8.20, 8.14	
911	596	—	654	—		135 +
888	498	—	540	—		683 +
881	599	600	681	682	8.14, 8.14	
879	467	—	533	—		671 +

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1930phae.proj.12730

HJP – RH 1891 – Feb. 13, 1930

Strip	Class	Star	y	x	Dyll	Dyll	Cl	DL	Volts
	f	112	2130	202	587	584	1038	161	
	p	103	2120	232	604	—	1034	160	
	p	104	2130	342	729	—	1038	168	
	p	105	2118	516	343	—	1047	161	
	f	113	2129	1013	840	840	1056	167	
	p	106	2130	1067	879	—	1052	163	
	p	107	2128	1069	960	—	1069	168	
21.4	f	114	2150	204	778	750	1043	170	
	f	115	2148	258	918	880	1043	169	
	p	108	2152	457	988	—	1047	167	
	f	116	2145	081	852	799	1051	171	
	p	109	2146	812	901	—	1049	173	
	f	117	2152	1147	928	890	1060	171	
21.6	f	118	2161	153	940	884	1040	177	
	p	110	2169	340	529	—	1043	173	
	p	111	2169	411	383	—	1054	171	
	f	119	2162	432	829	781	1051	173	
	p	112	2161	467	663	—	1043	179	
	f	120	2158	489	600	069	1040	177	
	p	113	2170	572	992	—	1068	177	
	f	121	2178	747	829	813	1052	182	
	f	122	2162	838	702	693	1043	173	
	p	114	2160	1177	933	—	1060	181	
	f	123	2161	1279	913	904	1077	181	
21.8	f	124	2184	354	907	902	1049	170	
	f	125	2190	608	871	857	1050	171	
	f	126	2180	709	591	627	1042	170	
	f	127	2188	870	852	794	1036	170	

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1930phae.proj.12730

Cl.-Dk	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn	L. No.
872	426	423	488	485	7.65, 7.64	
874	444	—	509	—		679 ✓
865	561	—	648	—		664 +
886	182	—	210	—		627 ✓
889	673	673	757	757	8.27, 8.27	
889	716	—	805	—		
901	792	—	879	—		
873	608	580	690	665	8.15, 8.10	
874	749	711	859	813	off curve, 8.34	
870	821	—	943	—		
880	681	628	774	714	8.30, 8.20	
876	728	—	832	—		237 +
889	757	719	851	809	off curve, 8.34	
863	763	707	885	820	off curve, 8.34	
870	356	—	408	—		642 ✓
883	212	—	241	—		625 ✓
878	650	608	741	693	8.24, 8.16	
864	484	—	561	—		601 ✓
863	423	392	491	454	7.65, 7.50	
891	755	—	848	—		539 +
870	647	631	744	726	8.24, 8.22	
870	529	520	608	598	8.00, 7.98	
879	752	—	856	—		
896	732	723	816	807	8.34, 8.33	
879	737	732	840	833	off curve	
879	700	686	797	781	8.32, 8.30	
872	421	454	483	525	7.63, 7.78	
866	682	627	787	723	8.31, 8.22	

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1930phae.proj.12730

DM – R H 1891 – Feb 13, 1930

Strip	Class	Star	y	x	Dyfl	Dyf	ce	dk	Volts
	p	115	2189	966	371	—	1047	170	
	f	128	2190	991	916	886	1072	183	
	p	116	2190	1004	909	—	1056	181	
	f	129	2191	1004	557	523	1060	177	
22.0	f	117	2200	079	769	—	1020	173	
	p	118	2210	129	210	—	1039	177	
	f	130	2206	217	833	867	1050	173	
	p	119	2207	410	882	—	1028	172	
	f	131	2201	940	854	803	1039	170	
	p	120	2202	1133	419	—	1042	171	
	f	132	2206	1150	819	810	1047	171	
22.2	f	133	2229	107	540	541	1016	174	
	p	121	2229	159	627	—	1023	171	
	f	134	2220	183	811	813	1022	170	
	p	122	2232	307	890	—	1010	172	
	p	123	2220	351	402	—	1012	173	
	f	135	2220	760	717	690	1030	173	
	f	136	2231	1065	891	913	1044	178	
	p	124	2230	1211	920	—	1090	176	
22.4	f	137	2241	482	929	884	1051	181	
	f	138	2242	1098	829	871	1047	181	
	p	125	2241	1257	902	—	1099	177	
		1	2230	770	188	—	1011	181	
		1	1773	511	241	—	1050	178	
		2	—	—	323	—	1062	179	
		3	—	—	368	—	1057	180	
		4	—	—	351	—	1053	178	
		5	—	—	429	—	1043	180	
		6	—	—	581	—	1031	182	
		7	—	—	547	—	1050	180	
		8	—	—	806	—	960	180	675

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1930phae.proj.12730

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
877	201	—	229	—		205 ✓
889	723	703	814	792	8.34, 8.32	
875	718	—	822			
883	375	336	425	382	7.37, 7.16	
841	596	—	704			
862	33	—	38			660+
857	660	794	770	926	8.29, offcurve	
856	710	—	830			
869	684	733	787	842	8.31, offcurve	
871	248	—	285			183+
876	648	619	740	706	8.24, 8.19	
842	366	367	434	436	7.41, 7.42	
852	456	—	536	—		647+
852	641	643	753	755	8.26, 8.26	
838	718	—	858	—		
839	229	—	273			
857	544	517	635	604	8.05, 8.00	
866	713	735	823	849	8.35, offcurve	
854	744	—	872			
870	748	703	862	808	offcurve, 8.34	
866	648	690	749	797	8.25, 8.32	
862	725	—	842	—		181+
830	07	—	08	—		
872	63	—	72	—		
883	144	—	163	—		
877	188	—	207	—		
875	173	—	197	—		
863	249	—	288	—		
849	319	—	375	—		
870	367	—	421	—		
786	626	—	795	—		

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1930phae.proj.12730

2 Gp - R # 1891 - Feb. 15, 1930

Strip	Class	Star	y	x	Defl	Defl	a	Dk	Tilts
		10	2021	747	073	—	853	073	005
		1	1773	489	098	—	912	078	
		2	—	—	102	—	943	081	
		3	—	—	197	—	953	083	
		4	—	—	183	—	941	083	
		5	—	—	248	—	943	086	
		6	—	—	380	—	912	087	
		7	—	—	429	—	940	088	
		8	—	—	678	—	849	087	
22.6	p	126	2272	132	730	—	920	089	
	p	127	2270	293	778	—	920	092	
	p	128	2260	357	512	—	931	091	
	p	139	2266	522	767	758	942	091	
	p	140	2259	562	830	813	923	093	
	p	141	2271	591	370	343	948	096	
	p	142	2271	629	769	787	959	100	
	p	143	2275	796	543	530	930	099	
	p	144	2270	833	661	673	947	100	
	p	145	2273	859	672	692	957	100	
	p	129	2270	1102	806	—	965	098	
23.8	p	130	2283	131	785	—	953	100	
	p	131	2298	150	784	—	944	101	
	p	146	2290	154	192	194	947	097	
	p	147	2280	375	720	717	932	100	
	p	132	2290	382	461	—	950	102	
	p	148	2287	439	787	769	961	105	
	p	133	2290	513	768	—	953	110	
	p	134	2280	550	730	—	967	120	
	p	135	2297	706	300	—	968	119	
	p	136	2287	891	600	—	967	120	

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1930phae.proj.12736

Ce Dk	Defl Dk	Defl Dk	Defl Dk	Red Defl	Red Defl	Mag. L. No.
780	0	—	0	—		
834	20	—	24	—		
862	71	—	83	—		
870	114	—	131	—		
858	100	—	116	—		
867	162	—	189	—		
825	293	—	255	—		
852	341	—	400	—		
762	591	—	775	—		
831	641	—	769	—		632+
828	686	—	827	—		~~587~~
840	421	—	500	—		587✓
851	676	667	794	783	off curve, 8.37	
831	737	720	886	866	off curve	
852	274	247	321	290	6.97, 6.84	
859	669	687	779	800	8.36, off curve	
831	444	431	533	516	7.74, 7.70	
847	561	573	663	675	8.10, 8.13	
857	572	592	666	689	8.11, 8.17	
867	708	—	817	—		
853	685	—	802	—		
843	683	—	809	—		622+
850	95	97	112	114	5.63, 5.65	
832	620	617	745	742	8.31, 8.31	
848	359	—	423	—		570✓
856	682	664	796	775	off curve, 8.35	
843	658	—	782	—		513+
847	610	—	721	—		496+
849	181	—	212	—		376✓
847	480	—	567	—		274✓

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1930phae.proj.12730

HJP – RH 1891 – Feb. 15, 1930

Strip	Class	star	y	x	Dyf	Dyf	cc	ck	Date
	p	137	2280	1001	397	—	964	112	
	p	138	2288	1231	400	—	988	112	
29.0	p	139	2301	382	713	—	959	113	
	p	140	2303	453	742	—	958	112	
	p	141	2300	603	818	—	963	111	
	p	142	2312	771	543	—	970	110	
	f	149	2311	1197	519	512	969	110	
	p	143	2306	1202	597	—	973	108	
29.2	f	150	2318	208	811	909	940	112	
	p	144	2318	293	637	—	950	111	
	f	145	2331	390	725	—	957	112	
	f	151	2321	423	828	823	953	113	
	p	147	2320	907	380	—	921	113	
	f	152	2330	1091	799	779	970	111	
	f	153	2320	1124	690	720	970	113	
29.4	p	148	2340	468	719	—	950	113	
	f	154	2342	471	850	870	959	113	
	f	155	2340	660	706	744	962	113	
	p	149	2351	906	352	—	983	114	
	f	156	2339	908	777	804	977	112	
	p	150	2340	918	806	—	984	113	
	p	151	2340	1079	787	—	961	110	
	f	157	2348	1116	680	723	961	120	
	f	158	2348	1178	759	733	967	120	
29.6	p	152	2367	409	796	—	944	120	
	p	153	2357	698	723	—	960	119	
	p	154	2360	700	813	—	963	117	
	f	159	2370	894	870	847	970	117	
	f	160	2369	932	741	777	962	117	
	p	155	2368	1012	613	—	987	117	

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
852	285	—	333	—		240 ✓
876	588	—	671	—		
846	600	—	708	—		
846	630	—	744	—		
852	707	—	830	—		
860	433	—	502	—		338 ✓
859	409	402	477	466	7.55, 7.52	
865	489	—	566	—		206 +
828	699	797	846	964	off curve	
839	526	—	629	—		588 +
845	613	—	727	—		
840	715	710	849	843	off curve	
808	264	—	330	—		279 ✓
859	688	668	801	778	off curve, 8.35	
857	577	607	673	710	8.13, 8.23	
834	606	—	726	—		
846	737	757	871	894	off curve	
849	593	631	698	742	8.20, 8.31	
866	235	—	271	—		294 ✓
865	665	692	768	799	8.35, off curve	
871	693	—	792	—		
851	647	—	796	—		
841	560	603	665	716	8.11, 8.25	
847	639	613	755	725	8.34, 8.27	
824	676	—	820	—		
841	604	—	718	—		
846	696	—	822	—		
853	753	730	882	855	off curve	
845	624	660	739	782	8.30, 8.35	
870	496	—	570	—		264 +

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1930phae.proj.12730

Dgp-RH 1891 - Feb 15, 1938

Strip	Class	Star	y	x	Dgll	Dgl	gl	Dk	Volts
	p	156	2360	1098	829	—	954	119	
	p	157	2362	1138	184	—	969	113	
23.8	p	161	2396	178	778	802	963	113	
	p	162	2380	904	289	272	953	112	
	p	163	2380	920	651	661	960	113	
	p	158	2391	978	832	—	947	113	
	p	164	2390	1009	847	880	961	117	
	p	159	2383	1093	726	—	979	118	
	p	160	2393	1169	303	—	967	119	
24.0	p	165	2407	443	752	743	939	113	
	p	166	2400	550	692	680	960	118	
	p	167	2404	654	779	786	967	116	
	p	161	2410	742	761	—	942	118	
	p	162	2403	889	792	—	964	117	
	p	163	2407	902	558	—	953	117	
24.2	p	164	2428	862	617	—	960	111	
	p	168	2430	452	542	543	949	109	
	p	165	2418	643	697	—	958	113	
24.4	p	169	2440	309	642	619	937	111	
	p	166	2446	263	202	—	930	113	
	p	170	2450	513	271	262	940	109	
	p	171	2439	533	859	843	937	116	
	p	172	2440	698	733	723	958	120	
	p	173	2447	822	800	786	949	121	
	p	174	2442	968	857	850	957	120	
	p	167	2451	1127	781	—	960	119	
24.6	p	168	2461	240	827	—	937	120	
	p	169	2470	445	793	—	956	120	
	p	175	2470	547	552	549	949	120	
	p	170	2468	684	683	—	966	121	

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1930phae.proj.12730

C-Obs	Defl-Obs	Defl-Adj	Red Defl	Red Defl	Mag	L No.
835	710	—	850	—		
856	71	—	83	—		239+
820	665	689	812	841	off curve	
841	177	160	210	191	6.43, 6.30	
847	538	548	645	657	8.06, 8.09	
834	719	—	863	—		
844	760	763	900	902	off curve	
861	608	—	706	—		225×
848	184	—	214	—		242×
826	639	630	773	762	8.35, 8.34	
842	574	562	681	667	8.14, 8.12	
851	663	670	780	787	8.36, 8.37	
824	643	—	781	—		
847	675	—	798	—		
836	441	—	527	—		
849	506	—	597	—		541✓
840	433	434	516	516	7.70, 7.70	
840	584	—	695	—		425✓
826	531	508	643	615	8.06, 8.00	
817	89	—	109	—		536×
831	162	153	195	184	6.33, 6.25	
831	743	727	892	874	off curve	
838	613	603	732	720	8.29, 8.26	
828	679	665	819	802	off curve	
837	737	730	881	872	off curve	
841	662	—	784	—		
817	707	—	865	—		
836	673	—	805	—		513×
829	432	429	521	518	7.75, 7.70	
839	462	—	550	—		451✓

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1930phae.proj.12730

2gP – RH 1891 – Feb. 15, 1930

Strip	Class	Star	y	x	Diff	Diff	cc	Dk	Volts
	f	176	2470	904	532	500	932	120	
	fp	171	2471	1029	847	—	958	120	
	p	172	2462	1128	613	—	961	120	
		10	2030	747	129	—	921	122	
		1	1773	489	153	—	990	128	
		2	—	—	193	—	1008	123	
		3	—	—	229	—	979	120	
		4	—	—	223	—	980	121	
		5	—	—	292	—	979	122	
		6	—	—	404	—	961	120	
		7	—	—	477	—	970	121	
		8	—	—	689	—	882	121	000
	mkD			RH 1891			Feb. 17, 1930		5.10
		1s	2030	762	075	—	920	075	
		1	1773	504	090	—	975	070	
		2	—	—	145	—	1002	078	
		3	—	—	180	—	970	078	
		4	—	—	171	—	995	080	
		5	—	—	248	—	990	080	
		6	—	—	400	—	970	082	
		7	—	—	458	—	970	082	
		8	—	—	690	—	983	085	
24.8	f	177	2480	424	392	360	960	085	
	fp	178	2489	833	298	290	959	084	
	p	173	2480	1030	435	—	959	084	
25.0	f	179	2500	244	590	585	940	090	
	fp	174	2500	404	567	—	950	084	
	f	180	2510	460	730	720	940	083	
	fp	181	2511	470	235	237	960	084	
	p	175	2500	821	670	—	950	088	

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1930phae.proj.12730

C–Dk	Defl Dk	Defl Dk	Defl Dk	Red Defl	Red Defl	Mag.	L. No.
812	412	380	508	467	7.67, 7.53		
838	427	—	866	—			297+
841	493	—	582	—			
799	07	—	09	—			
862	25	—	29	—			
885	70	—	79	—			
859	109	—	127	—			
859	102	—	117	—			
854	170	—	198	—			
841	280	—	333	—			
849	356	—	418	—			
761	568	—	747	—			
843	0	—	0	—			
905	20	—	22	—			
924	67	—	73	—			
892	102	—	115	—			
915	91	—	100	—			
910	168	—	185	—			
888	318	—	358	—			
888	376	—	423	—			
898	605	—	673	—			
875	307	275	350	314	7.12, 6.95		
875	214	206	244	235	6.65, 6.63		
875	351	—	401	—			297×
850	500	495	587	582	8.00, 7.98		
866	483	—	556	—			023×
857	647	637	755	744	off curve		
876	151	153	172	174	6.30, 6.32		
862	582	—	673	—			

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1930phae.proj.12730

mRD RH 1891 Feb. 17, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Ck	Volts
25.2	p	176	2530	530	309	—	950	088	
	f	182	2522	1070	345	350	945	088	
25.4	f	183	2552	569	490	488	953	088	
	p	177	2538	678	530	—	950	090	
25.6	p	178	2560	311	584	—	930	090	
	p	179	2570	421	680	—	920	090	
	p	180	2570	566	670	—	930	089	
	p	181	2570	660	282	—	920	088	
25.8	f	184	2590	825	454	460	940	090	
26.2	p	182	2620	437	505	—	909	088	
	f	185	2624	441	390	360	917	088	
	f	186	2624	788	520	500	930	090	
	f	187	2635	810	440	425	935	090	
26.4	f	188	2654	589	260	250	925	089	
	p	183	2655	636	670	—	940	090	
		18	2030	762	100	—	912	098	
		1	1773	504	115	—	970	095	
Plate		2	—	—	155	—	980	095	
		3	—	—	192	—	960	093	
Finished		4	—	—	197	—	980	098	
		5	—	—	270	—	970	097	
		6	—	—	390	—	960	096	
		7	—	—	450	—	950	095	
		8	—	—	680	—	967	097	

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1930phae.proj.12730

C.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
862	221	—	257	—		474+
857	254	262	300	306	6.90, 6.93	
865	312	300	348	347	7.10, 7.10	
860	440	—	513	—		420+
840	494	—	590	—		534+
830	590	—	714	—		509+
841	579	—	690	—		457+
832	194	—	233	—		426+
850	364	370	428	437	7.43, 7.45	
821	317	—	387	—		498+
829	302	272	363	328	7.17, 7.03	
840	430	410	513	489	7.73, 7.64	
836	350	335	419	403	7.39, 7.34	
850	171	161	201	189	6.48, 6.40	
875	560	—	641	—		
814	02	—	02	—		
876	20	—	23	—		
885	60	—	68	—		
867	99	—	114	—		
882	99	—	112	—		
873	173	—	118	—		
864	294	—	340	—		
856	355	—	416	—		
870	583	—	671	—		

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1930phae.proj.12730

HJP — RH 1855 — Feb. 17, 1930

Trip	Class	Star	y	x	Dyf	Dyf	cl	Dk	Volts
		14	1970 80²	772	091	—	930	081	500
		1	2 1799	0563	147	—	913	081	
		2	—	—	258	—	940	082	
		3	—	—	350	—	943	084	
		4	—	—	303	—	918	084	
		5	—	—	559	—	952	087	
		6	—	—	710	—	968	083	
		7	—	—	791	—	971	087	
		8	—	—	20 # 8 ~~bis~~		sequence		
14.0	p	1	1392	993	581	—	1004	088	
14.2	p	1	1429	797	870	909	999	091	
14.4	p	2	1440	1073	609	—	1038	093	
14.6	p	2	1470	837	219	219	1003	091	
	p	3	1458	912	842	887	1013	090	
14.8	p	3	1480	1049	351	—	1003	090	
15.0	p	4	1502	719	879	918	1007	087	
	p	5	1510	1038	919	912	1020	091	
15.2	p	4	1518	588	793	—	977	089	
	p	5	1527	893	590	—	1004	097	
15.4	p	6	1540	789	762	742	967	088	
	p	7	1551	880	836	828	1019	090	
	p	8	1560	1169	917	930	1028	088	
15.6	p	9	1566	688	799	834	997	091	
	p	10	1571	1299	867	942	1019	093	
15.8	p	6	1589	1181	810	—	1030	093	
16.0	p	11	1604	407	867	881	967	090	
	p	12	1612	495	606	597	968	091	
16.2	p	7	1627	982	789	—	1023	100	
	p	13	1611	984	770	836	1011	097	
16.4	p	14	1638	379	801	823	978	091	

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1930phae.proj.12730

O-Dk	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	L. No.
849	10	—	12	—		
832	66	—	79	—		
868	170	—	198	—		
859	266	—	309	—		
834	299	—	358	—		
866	472	—	544	—		
876	627	—	715	—		
884	704	—	795			
816	493	—	602	—		
906	779	818	857	900	7.66, 7.85	
945	516	—	546	—		242+
912	28	28	31	31	3.24, 3.24	
928	752	797	813	864	7.45, 7.68	
913	261	—	285	—		239+
920	792	831	861	902	7.67, 7.85	
929	828	821	895	884	7.82, 7.77	
888	644	—	725	—		51+
907	493	—	543	—		183+
879	674	654	767	744	7.26, 7.16	
929	746	738	803	796	7.42, 7.38	
940	829	842	887	897	7.76, 7.84	
906	708	743	787	8.20	7.32, 7.49	
926	774	849	835	917	7.55, 7.93	
957	717	—	765	—		297+
877	777	791	882	899	7.76, 7.84	
877	575	506	587	572	6.64, 6.58	
923	689	—	746	—		240
912	673	739	737	809	7.14, 7.44	
877	709	732	808	833	7.44, 7.54	

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1930phae.proj.12730

Hyp - R.H. 1850 - Feb. 17, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Falls
	p	8	1657	652	290	—	987	090	
16.6	p	9	1672	351	504	—	980	086	
	l	15	1662	468	492	458	957	090	
16.8	l	16	1688	417	767	813	979	097	
	p	10	1697	901	497		1011	097	
17.0	p	11	1712	1037	700	—	1021	102	
	p	12	1711	1069	657	—	1027	100	
	l	17	1704	1117	944	920	963	101	
	l	13	1708	1122	881	—	1018	093	
	l	18	1723	1203	618	629	1007	093	
17.2	p	14	1732	424	760	—	951	094	
	p	15	1720	527	888	—	957	096	
	p	16	1730	689	771	—	993	096	
	l	19	1718	709	862	870	990	099	
17.4	p	17	1751	534	753	—	968	099	
	p	18	1740	088	658	—	970	096	
	l	20	1750	1351	529	530	1040	099	
	l	21	1740	1381	919	947	1047	104	
17.6	l	22	1768	491	319	321	962	103	
17.8	l	23	1780	863	326	322	1014	108	
18.0	l	24	1800	1310	716	708	1038	103	
18.2	l	25	1828	494	748	753	973	108	
	l	26	1837	992	707	807	1018	106	
18.6	l	27	1865	289	792	817	966	108	
	l	28	1861	394	660	611	965	102	
	l	29	1860	468	823	892	984	101	
	l	30	1871	1137	954	921	1020	102	
18.8	l	31	1882	841	643	666	988	105	
19.2	l	32	1928	578	692	679	947	100	
	l	33	1930	791	699	692	976	096	

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1930phea.proj.12730

cl.-Dk	Defl-Dk	Defl-Dk	Reduced	Reduced	Magn.	L. No.
897	200	—	224	—		56 ✓
894	418	—	467	—		1214 +
867	402	368	463	423	6.25, 6.13	
882	670	716	760	812	7.24, 7.45	
914	400	—	438	—		205 ✓
919	598	—	652	—		279 ✓
927	557	—	602	—		~~294~~
862	843	819	977	949	off curve, 8.06	294 ✓
925	788	—	851	—		
914	525	546	574	597	6.60, 6.66	
857	666	—	775	—		1208 +
861	792	—	918	—		1251 ✓
897	675	—	752	—		62 ✓
891	763	791	854	865	7.64, 7.69	
869	654	—	752	—		1242 ✓
874	562	—	643	—		1279 ✓
941	430	431	457	458	6.24, 6.24	
943	815	843	865	894	7.69, 7.82	
859	216	218	252	254	5.48, 5.48	
906	218	214	241	235	5.43, 5.40	
935	613	605	656	658	6.85, 6.86	
865	640	645	740	745	7.15, 7.16	
912	601	701	660	769	6.87, 7.27	
858	684	709	796	826	7.38, 7.52	
863	558	509	646	588	6.83, 6.64	
883	722	731	817	827	7.48, 7.52	
901	851	818	938	902	8.04, 7.85	
883	538	561	608	634	6.70, 6.78	
847	592	579	700	685	7.03, 6.96	
880	603	596	686	677	6.97, 6.94	

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1930phae.proj.12730

DGP – CH 1855 – Feb. 17, 1930

trip	Class	star	Y	X	Diff	Diff	cc	Dk	Plate
	p	19	1917	1039	601	—	1002	093	
		34	1932	1064	877	900	1024	100	
19.4	p	20	1947	503	799	—	961	104	
		35	1950	552	730	740	956	103	
		36	1948	1074	961	949	1010	106	
	p	21	1941	1319	591	—	1023	101	
19.6		37	1977	573	727	703	960	102	
		38	1977	574	540	606	940	098	
19.8		39	1993	748	751	773	968	100	
		40	1980	1181	800	831	1014	100	
20.0		41	2000	829	824	840	976	102	
		42	2002	1030	877	869	1004	102	
20.2	p	22	2020	277	790	—	946	100	
		43	2020	1434	647	639	1017	101	
20.4	p	23	2047	290	712	—	934	101	
		44	2057	340	867	880	927	100	
		45	2000	1184	580	598	1017	104	
		46	2042	1398	869	868	1020	101	
		47	2040	1443	740	713	1016	100	
		1s	1910	772	116	—	980	109	
		1	21/1999	553	171	—	948	106	
		2	—	—	264	—	959	100	
		3	—	—	372	—	969	099	
		4	—	—	422	—	939	098	
		5	—	—	551	—	974	100	
		6	—	—	700	—	978	100	
		7	—	—	808	—	987	098	490
		8	—	—	Re #8 in sequence				

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	L. No
909	508	—	560	—		376 ✓
924	777	800	841	865	7.58, 7.69	
857	695	—	810	—		1109 ✓
853	627	637	735	747	7.14, 7.17	
904	855	843	945	933	8.06, 8.00	
922	490	—	530	—		426+
858	625	651	730	759	7.13, 7.23	
842	442	508	525	605	6.45, 6.69	
868	651	673	750	775	7.19, 7.29	
914	700	731	765	800	7.25, 7.40	
874	722	738	826	845	7.52, 7.60	
902	775	767	860	850	7.67, 7.63	
846	690	—	815	—		1043+
916	546	538	596	588	6.66, 6.64	
833	611	—	735	—		1030+
827	267	280	323	338	5.77, 5.83	
913	476	494	522	540	6.44, 6.50	
919	768	767	835	835	7.55, 7.55	
916	640	613	698	668	7.02, 6.90	
871	09	—	10	—		
842	65	—	77	—		
859	164	—	191	—		
870	2 173	—	199 314	—		
841	324	—	385	—		
874	451	—	515	—		
878	650	—	740	—		
889	710	—	800	—		

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1930phae.proj.12730

MRD RH 1855 Feb 15, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Ob	Volts
		15	1910	740	100	—	935	090	508
		1	2199	520	163	—	920	090	
		2	—	—	280	—	915	090	
		3	—	—	360	—	954	096	
		4	—	—	380	—	940	094	
		5	—	—	567	—	965	096	
		6	—	—	750	—	980	099	
		7	—	—	787	—	985	100	
		8	—	—	not Seen				
20.6	f	48	2068	330	540	548	930	100	499
20.8	f	49	2090	310	662	680	947	101	
	f	50	2087	985	320	330	999	102	
	fp	24	2080	1265	625	—	1017	110	
	f	51	2093	1308	355	365	1030	110	
21.0	f	52	2102	483	684	680	962	109	
21.2	f	53	2120	560	430	440	956	102	
	f	54	2119	690	650	650	970	103	
	f	55	2120	772	400	420	985	102	
	f	56	2120	1042	570	561	999	105	
	f	57	2130	1048	730	745	1029	105	
21.4	f	58	2149	302	650	660	960	103	
	f	59	2140	378	767	780	950	100	
	f	60	2143	380	585	590	950	100	
	f	61	2146	500	780	782	952	103	
	f	62	2139	568	715	720	950	102	
	fp	25	2150	858	560	—	1008	105	
	f	63	2138	1073	860	860	1030	108	
21.6	f	64	2160	468	700	685	1020	106	
	f	65	2170	1311	780	786	1028	109	
22.0	f	66	2210	987	780	772	999	107	

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1930phae.proj.12730

Cl.-Dk	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	R. No.
845	10	—	12	—		
830	73	—	88	—		
825	190	—	230	—		
858	264	—	307	—		
846	286	—	338	—		
869	471	—	541	—		
881	651	—	739	—		
885	687	—	776	—		
830	440	448	530	540	6.48, 6.50	
846	561	579	662	684	6.88, 6.97	
897	218	228	243	254	5.42, 5.48	
907	515	—	567	—		479
920	245	255	266	277	5.54, 5.60	
853	575	571	675	670	6.94, 6.93	
854	328	338	384	396	6.00, 6.04	
867	547	547	631	631	6.77, 6.77	
883	298	318	338	360	5.86, 5.93	
894	465	456	520	511	6.44, 6.41	
924	625	640	675	693	6.94, 7.00	
857	547	557	638	650	6.79, 6.84	
850	667	680	785	800	7.43, 7.50	
850	485	490	570	575	6.58, 6.59	
849	677	679	797	799	7.47, 7.49	
848	613	618	723	729	7.13, 7.14	
903	455	—	505	—		627
922	752	752	815	815	7.65, 7.65	
914	594	579	650	635	6.85, 6.78	
919	671	677	730	736	7.15, 7.17	
892	673	665	755	745	7.27, 7.21	

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1930phae.proj.12730

MRD RH1855 Feb 18, 1930

Strip	Class	Star	y	x	Defe	Defe	cl	Dk Volts
		67	2200	1138	530	528	1048	110
22.2		26	2238	1200	432	—	1015	106
22.4		68	2250	369	622	630	950	103
		27	2249	921	672	—	1008	105
23.8		28	2300	983	660	—	1015	108
23.2		69	2320	623	775	770	960	101
		70	2337	968	485	499	1010	104
23.4		71	2338	340	660	650	940	100
23.6		72	2374	948	338	330	985	100
23.8		29	2390	618	700	—	955	100
24.0		73	2409	435	394	400	937	102
24.4		74	2440	800	528	535	975	105
24.6		75	2470	495	655	663	969	103
		76	2465	1092	745	730	1010	105
25.2		77	2529	902	670	680	980	105
		30	2522	1002	260	—	998	110
		15	1910	740	128	—	984	115
		1	2199	520	190	—	960	117
		2	—	—	290	—	943	115
		3	—	—	380	—	974	120
		4	—	—	410	—	950	120
		5	—	—	570	—	990	120
		6	—	—	750	—	997	118
		7	—	—	796	—	999	115
		8	—	—	not seen			

Plate Finished

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1930phae.proj.12730

c-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
938	420	418	446	445	6.20, 6.19	
909	326	—	358	—		536+
847	519	527	612	623	6.70, 6.74	
903	567	—	629	—		625 ✓
907	552	—	607	—		606 ✓
859	674	669	784	779	7.42, 7.39	
906	381	395	420	435	6.11, 6.15	
840	560	550	666	655	6.92, 6.86	
885	238	230	268	260	5.55, 5.52	
855	600	—	702	—		805 ✓
835	292	298	350	357	5.90, 5.93	
870	423	430	485	495	6.34, 6.36	
866	552	560	636	646	6.79, 6.84	
905	640	625	706	690	7.05, 7.00	
875	565	575	645	656	6.84, 6.87	
888	150	—	169	—		660+
869	13	—	15	—		
843	73	—	86	—		
828	175	—	211	—		
854	260	—	304	—		
830	290	—	350	—		
870	450	—	517	—		
879	632	—	718	—		
884	681	—	771	—		
—	—	—	—	—		

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Q J P - R A 1906 – Feb 19, 1920

Strip	Class	Star	Y	D	Dyl	Dyl	Cl	Dk	Volts
		1*	1970	871	113	—	750	113	515
		1	1867	522	142	—	801	113	
		2	—	—	170	—	814	112	
		3	—	—	190	—	650	112	
		4	—	—	222	—	861	120	
		5	—	—	280	—	847	122	
		6	—	—	439	—	871	122	
		7	—	—	460	—	871	128	
		8	—	—	698	—	851	129	
14.4	p	1	1452	821	562	560	853	136	
14.6	p	1	1475	708	663	—	893	138	
	p	2	1471	767	727	—	888	140	
	p	2	1457	769	738	757	887	141	
	p	3	1461	919	698	699	878	140	
14.8	p	4	1479	689	730	721	871	140	
	p	5	1481	698	640	622	900	139	
	p	6	1492	750	748	741	887	141	
	p	7	1490	757	687	689	910	142	
	p	3	1490	850	578	—	900	144	
	p	4	1490	937	284	—	889	142	
	p	8	1477	947	730	738	890	142	
	p	5	1493	982	613	—	881	143	
	p	9	1498	983	599	571	877	148	
15.0	p	10	1510	589	567	541	890	140	
	p	11	1501	1066	659	639	883	148	
	p	12	1507	1079	739	752	861	141	
15.2	p	6	1524	649	752	—	900	143	
	p	7	1527	913	677	—	881	143	
	p	13	1523	958	757	770	888	148	
	p	14	1528	990	642	629	887	144	

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Cl. Dk.	Defl. Dk.	Defl. - Dk.	Reduced	Reduced	Magn.	L. No.
637	0	—	0	—		
688	29	—	42	—		
702	68	—	82	—		
638	78	—	145	—		
744	102	—	138	—		
725	158	—	218	—		
749	317	—	424	—		
743	332	—	447	—		
722	569	—	786	—		
717	426	424	594	590	7.80, 7.80	
755	525	—	695	—		1110 ✗
748	587	—	785	—		
746	597	616	800	825	off curve	
738	558	559	755	756	8.34, 8.34	
731	590	581	806	795	off curve	
761	501	483	657	634	8.02, 7.94	
746	607	600	815	805	off curve	
768	545	547	710	712	8.18, 8.19	
756	434	—	574	—		1104 ✗
747	142	—	190	—		1214 ✗
748	588	596	785	796	off curve	
738	460	—	622	—		1235 ✗
729	451	423	619	580	7.88, 7.76	
750	427	401	570	535	7.74, 7.63	
735	511	485	695	660	8.13, 8.03	
720	592	611	822	849	off curve	
757	609	—	804			
638	534		835	—		1201 ✗
740	609	622	823	840	off curve	
743	498	485	671	655	8.05, 8.01	

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1930phae.proj.12730

Dyf-R H 1906 – Feb. 19, 1930

Trip	Class	Star	y	x	Dyf	Dyf	cc	dk 906	
15.4	f	15	1542	559	718	720	881	144	
	p	8	1543	586	559	—	861	149	
	f	16	1539	588	692	713	870	148	
	p	9	1542	859	874	—	873	150	
	f	17	1538	1101	702	719	889	150	
	p	10	1540	1102	772	—	878	149	
15.6	f	18	1570	561	651	597	881	148	
	p	11	1567	569	449	—	839	143	
	f	19	1563	660	783	796	891	147	
	f	20	1560	686	787	782	880	150	
	f	21	1571	797	782	777	888	151	
	f	22	1570	808	557	548	884	150	
	p	12	1570	827	760	—	883	151	
	f	23	1575	864	704	697	873	147	
	f	24	1570	1167	760	770	873	150	
		14	1970	871	151	—	810	149	
		1	1867	522	168	—	864	146	
		2	—	—	192	—	872	141	
		3	—	—	221	—	901	144	
		4	—	—	253	—	902	147	
		5	—	—	920	—	884	147	
		6	—	—	463	—	899	147	
		7	—	—	470	—	891	140	
		8	—	—	658	—	863	136	510

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	L. No
737	564	576	765	780	8.35, 8.38	
718	416	—	580	—		1043 X
722	544	565	754	783	8.34, off curve	
723	724	—	000	—		1176 X
739	552	623	746	843	8.30, off curve	
729	623	—	855	—		
733	503	449	685	614	8.09, 7.86	
686	306	—	445	—		1030 X
744	636	641	856	861	off curve	
730	637	632	874	865	off curve	
737	631	626	856	850	off curve	
734	407	398	555	544	7.68, 7.65	
732	609		831	—		1157 X
726	557	550	766	756	8.35, 8.35	
723	610	620	845	860	off curve	
661	02	—	3	—		
718	22	—	30	—		
731	51	—	70	—		
559	80	—	143	—		
755	106	—	140	—		
737	173	—	234	—		
752	316	—	420	—		
751	330	—	440	—		
727	522	—	717	—		

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1930phae.proj.12730

mkD RH 1906, Feb. 20, 1930

Strip	Class	Star	y	x	Dyll	Dyll	cl	Ak Volts	
		15	1970	874	120	—	800	117	5,2
		1	1867	528	180	—	858	120	
		2	—	—	180	—	880	120	
		3	—	—	210	—	899	122	
		4	—	—	290	—	900	121	
		5	—	—	320	—	890	124	
		6	—	—	490	—	890	122	
		7	—	—	545	—	880	123	
		8	—	—	712	—	890	128	
15.8	p	13	1594	610	600	—	905	129	
	f	25	1580	619	580	570	890	132	
	f	26	1585	730	270	260	900	132	
	f	27	1590	754	160	160	890	130	
	f	28	1587	840	703	675	915	133	
	p	14	1580	911	510	—	905	136	
16.0	p	15	1600	540	715	—	910	138	
	f	29	1600	571	532	530	890	140	
	f	30	1600	729	590	580	899	137	
	f	31	1609	755	710	704	890	136	
	f	32	1612	917	539	532	880	134	
	f	33	1609	1069	670	660	890	135	
	p	16	1615	1080	690	—	890	135	
	f	34	1610	1169	550	557	908	138	
16.2	f	35	1620	902	690	694	870	130	
	fp	17	1629	1128	645	—	894	130	
	p	18	1620	1129	560	—	895	130	
	f	36	1618	1230	600	590	905	131	
16.4	fp	19	1649	837	595	—	897	130	
	f	37	1640	1106	600	587	878	130	
	p	20	1655	1172	415	—	899	133	

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. Ks.
683	3	—	4	—		
738	60	—	81	—		
760	60	—	79	—		
777	88	—	113	—		
779	169	—	217	—		
766	196	—	256	—		
768	368	—	478	—		
757	422	—	556	—		
762	584	—	766	—		
776	471	—	606	—		1044x
758	478	438	630	578	7.70, 7.52	
768	138	128	180	167	6.07, 6.04	
760	30	30	40	40	4.02, 4.02	
782	570	542	730	692	8.15, 7.99	
769	374	—	486	—		1208x
772	577	—	749	—		
750	392	390	522	520	7.33, 7.32	
762	453	443	595	581	7.56, 7.53	
754	574	568	760	755	8.28, 8.25	
746	405	398	543	534	7.40, 7.36	
755	535	525	710	695	8.06, 8.00	
755	555	—	735	—		8x
770	412	419	535	544	7.37, 7.40	
740	560	564	755	760	8.26, 8.28	
764	515	—	675	—		~~23~~
765	430	—	560	—		23x
764	469	459	615	602	7.64, 7.59	
767	465	—	605	—		1166x
748	470	457	626	611	7.66, 7.63	
766	282	—	368	—		51x

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MRD RH 1906 Feb 20, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk Volts
16.6	f	38	1660	850	645	640	907	133
	fp	21	1671	952	470	—	894	130
	f	39	1675	1027	535	523	903	131
	f	40	1660	1234	710	710	880	135
		18	1970	874	135	—	825	130
		1	1867	528	190	—	848	131
		2	—	—	190	—	860	133
		3	—	—	225	—	877	132
		4	—	—	315	—	870	134
		5	—	—	332	—	870	134
		6	—	—	512	—	890	137
		7	—	—	570	—	865	134
		8	—	—	713	—	880	133

Continued BK 73 p 198

MRD RH 1906 Feb 25, 1930

								Volts
		18	1970	847	190	—	770	158	5.0
		1	1867	499	235	—	867	160	
		2	—	—	245	—	805	160	
		3	—	—	310	—	829	165	
		4	—	—	390	—	838	165	
		5	—	—	462	—	820	160	
		6	—	—	560	—	830	162	
		7	—	—	580	—	817	160	
		8	—	—	680	—	813	140	
21.0	fe	80	2110	353	690	—	815	140	
	f	236	2100	368	490	485	808	140	
	f	237	2100	795	330	338	813	142	
	f	238	2102	1292	691	686	808	140	
	fp	81	2110	1320	670	—	790	140	
	f	239	2102	1337	620	620	763	139	

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1930phae.proj.12730

Cl-Dk	Deff-Dk	Deff-Dk	Red Diff	Red Diff	Mag.	L.No
774	512	507	661	656	7.84, 7.82	
764	340	—	445	—		125 | V
772	404	392	524	508	7.33, 7.27	
745	575	575	770	770	8.33, 8.33	
695	5	—	7	—		
717	59	—	82	—		
727	57	—	78	—		
745	93	—	125	—		
736	181	—	246	—		
736	198	—	268	—		
753	375	—	498	—		
731	436	—	596	—		
747	580	—	775	—		
612	32	—	52	—		
647	75	—	116	—		
645	85	—	132	—		
664	145	—	218	—		
673	225	—	334	—		
660	302	—	456	—		
668	398	—	596	—		
657	420	—	640	—		
673	540	—	804	—		
675	550	—	816	—		764 X
668	350	345	523	514	6.72, 6.68	
671	188	186	282	281	5.86, 5.86	
668	551	546	823	816	offcenter, 8.41	
650	530	—	817	—		225 X
624	481	481	769	769	7.95, 7.95	

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1930phae.proj.12730

MRD RH 1906 Feb 25, 1930

Strips	Class	Star	y	x	Defl	Defl	Cl	Dk Volts
21.2	f	240	2118	299	505	510	830	135
	f	241	2132	391	660	660	819	135
	f	242	2130	400	690	695	820	135
	fp	82	2123	438	670	—	830	137
	f	243	2127	676	655	640	839	157
	f	244	2126	923	460	470	850	160
	fp	83	2120	1100	683	—	838	158
	fp	84	2125	1237	660	—	819	160
	f	245	2115	1370	200	204	800	160
21.4	f	246	2139	549	610	611	840	165
	f	247	2150	655	630	628	848	165
	f	248	2149	681	630	620	840	161
	f	249	2145	938	610	610	828	161
	f	250	2145	974	620	619	820	160
	fp	85	2142	1125	520	—	810	158
	f	251	2142	1324	365	375	805	160
	fp	86	2153	1380	700	—	790	160
		13	1970	847	190	—	780	160
		1	1867	499	222	—	805	155
		2	—	—	240	—	807	154
		3	—	—	300	—	814	158
		4	—	—	360	—	823	159
		5	—	—	454	—	820	161
		6	—	—	560	—	840	160
		7	—	—	604	—	830	163
		8	—	—	695	—	819	160

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1930phae.proj.12730

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
695	370	375	532	539	6.75, 6.78	
684	525	525	766	766	7.92, 7.92	
685	555	560	810	818	8.34, 8.47	
693	533	—	770	—		748 ✓
682	498	483	733	710	7.69, 7.56	
690	300	310	435	448	6.40, 6.46	
680	525	—	777	—		274 ✓
659	500	—	758	—		264 ✗
640	40	44	62	69	2.94, 3.20	
675	445	446	658	661	7.28, 7.30	
683	465	463	680	678	7.40, 7.40	
679	469	459	692	676	7.46, 7.37	
667	449	449	675	675	7.37, 7.37	
660	460	449	698	681	7.50, 7.42	
652	362	—	555	—		279 ✓
645	205	215	315	333	5.96, 6.03	
630	540	—	857	—		
620	30	—	48	—		
650	67	—	103	—		
653	86	—	132	—		
656	142	—	216	—		
664	201	—	302	—		
659	293	—	445	—		
680	400	—	590	—		
667	441	—	660	—		
659	535	—	810	—		

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FMC R.A. 1906 Feb. 25, 1930

Strip	class	star	y	x	Diff	Diff	cl	Dk	Vach
		1s	1970	847	150	—	705	122	
		1	1867	499	198	—	745	125	
		2	—	—	219	—	755	130	
		3	—	—	270	—	772	128	
		4	—	—	328	—	770	128	
		5	—	—	405	—	770	130	
		6	—	—	551	—	790	131	
		7	—	—	568	—	789	131	
		8	—	—	681	—	780	130	
21.6	f	252	21 1977	395	638	619	795	131	
	f	253	21 1965	590	689	678	800	132	
	f	87	21 1968	665	470	—	805	131	
	f	254	21 1960	712	605	598	803	130	
	f	255	21 1962	758	630	660	803	132	
	f	256	21 1970	880	452	472	801	138	
	f	257	2179	952	649	659	798	135	
	f	258	2160	1006	312	320	790	135	
	f	88	2171	1140	480	—	790	132	
	f	259	2170	1169	681	679	790	138	
	f	260	2161	1358	632	632	778	132	
	f	89	2162	1412	598	—	770	132	
21.8	f	261	2199	270	481	480	795	132	
	f	262	2190	310	692	670	809	130	
	f	263	2182	511	500	539	805	135	
	f	264	2181	620	420	429	842	198	
	f	265	2181	631	657	632	868	205	
	f	266	2190	782	479	488	849	195	
	f	267	2180	1363	618	610	812	199	
		1s	1970	847	241	—	790	201	
		1	1867	499	285	—	830	209	

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1930phae.proj.12730

C-Dk	Defl Dk	Defl-Dk	Red Defl	Defl Red.	Mag	L No
583	28	—	48	—		
620	73	—	118	—		
625	89	—	142	—		
644	142	—	220	—		
642	200	—	310	—		
640	275	—	430	—		
659	420	—	640	—		
658	437	—	665	—		
650	551	—	850	—		
664	507	488	763	737	7.67, 7.57	
668	557	546	834	816	8.06, 7.97	
674	339	—	503	—		627 ✓
673	475	468	705	696	7.41, 7.35	
671	498	528	745	789	7.60, 7.80	
663	314	334	474	505	6.46, 6.56	
663	514	524	772	790	7.74, 7.82	
655	177	185	270	283	5.74, 5.77	
658	348	—	528	—		294 ✓
652	543	541	834	830	8.06, 8.04	
646	500	500	775	775	7.75, 7.75	
638	466	—	730			
663	349	348	527	526	6.64, 6.64	
679	562	540	825	796	8.03, 7.85	
670	415	404	620	604	7.04, 6.96	
644	222	231	343	357	5.98, 6.04	
663	452	427	680	643	7.28, 7.13	
654	284	293	433	448	6.31, 6.37	
613	419	411	642	629	7.13, 7.06	
589	40	—	68	—		
621	76	—	122	—		

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1930phae.proj.12730

70

FMC RH 1906 Feb. 25, 1930

Strip	class	star	y	x	Diff	Diff	cl	Dh	Volt
		2	—	—	321	—	830	210	
		3	—	—	420	—	845	212	
		4	—	—	460	—	850	228	
		5	—	—	550	—	867	250	
		6	—	—	650	—	890	250	
		7	—	—	712	—	892	250	
		8	—	—	800	—	873	250	
		RH 1906 – Feb. 25, 1930							
		11	1970	847	159	—	692	123	
		1	1867	499	200	—	792	123	
		2	—	—	221	—	747	123	
		3	—	—	272	—	752	127	
		4	—	—	328	—	770	130	
		5	—	—	414	—	763	131	
		6	—	—	521	—	781	131	
		7	—	—	563	—	781	132	
		8	—	—	659	—	772	137	
22.0	f	268	2198	271	493	502	779	133	
	f	269	2207	312	728	732	786	133	
	f	270	2211	319	637	642	793	132	
	f	271	2211	364	489	491	781	132	
	f	272	2204	429	592	606	780	132	
	p	90	2200	453	617	—	787	132	
	f	273	2211	489	642	648	799	140	
	p	91	2197	543	709	—	793	137	
	f	274	2197	775	704	702	797	139	
	p	92	2202	1003	610	—	773	146	
	f	275	2216	1063	551	568	791	139	
	f	276	2201	1292	640	697	772	141	
	f	277	2198	1333	660	705	779	143	

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1930phae.proj.12760

Cl-Dk	Diff-Dk	Diff-Dk	Red Diff	Red Diff	Mag	L. No
620	111	—	179	—		
633	208	—	328	—		
622	232	—	374	—		
617	300	—	485	—		
640	400	—	625	—		
642	462	—	720	—		
623	550	—	885	—		
		—				
569	36	—	63	—		
609	77	—	126	—		
624	98	—	157	—		
625	145	—	232	—		
640	198	—	310	—		
632	283	—	448	—		
650	390	—	600	—		
649	431	—	664	—		
635	522	—	820	—		
646	360	369	558	572	6.76, 6.82	
653	595	599	912	919	off curve	
661	505	510	765	772	7.78, 7.82	
649	357	359	550	554	6.72, 6.74	
648	480	474	709	730	7.50, 7.60	
655	485	—	740	—		713 ✓
659	502	508	758	772	7.75, 7.83	
656	572	—	871	—		
658	566	563	854	854	8.34, 8.33	
633	470	—	744	—		338 ✓
652	412	429	631	658	7.13, 7.25	
631	499	496	792	786	7.92, 7.89	
636	517	562	815	883	8.05, off curve	

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1930phae.proj.12730

AGP - RH 1906 - Oct. 20, 1930

Strip	class	star	y	x	Dyll	Dyll	d	Dh
	22.2	278	2222	249	693	689	811	143
		279	2230	329	657	701	817	143
		280	2239	412	721	713	813	141
		281	2230	552	682	728	788	143
		282	2228	592	611	590	813	147
		283	2219	621	737	729	809	147
		93	2230	644	643	—	818	148
		284	2219	647	739	760	790	151
		285	2219	842	710	710	800	149
		286	2231	876	726	710	798	151
		287	2220	913	740	733	801	150
		94	2220	937	000	—	800	150
		288	2227	1042	712	702	790	152
		95	2227	1149	697	—	781	152
		96	2221	1163	621	—	771	154
		289	2220	1212	738	740	791	152
		97	2232	1297	582	—	792	151
	22.4	290	2250	320	670	670	818	156
		291	2243	322	760	733	806	151
		292	2240	340	731	720	802	153
		293	2247	349	707	709	803	152
		294	2252	612	713	699	801	153
		295	2243	893	591	580	813	159
		296	2244	919	701	702	807	159
		297	2247	1027	725	729	804	159
		298	2241	1102	689	713	791	153
		299	2253	1214	661	660	789	155
	22.6	300	2262	360	722	719	803	154
		98	2265	361	736	—	811	153
		301	2273	408	751	749	800	153

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk.	Defl.-Pk.	Reduced	Reduced	Magn.	L. No.
668	550	546	822	816	8.07, 8.05	
674	514	558	763	830	7.77, 8.15	
672	580	572	865	851	off curve, 8.31	
645	539	585	836	907	8.19, off curve	
666	464	443	697	663	7.44, 7.27	
662	590	582	894	878	off curve	
670	495	—	740	—		601
639	588	609	921	954	off curve	
651	561	561	862	862	off curve	
647	575	559	887	863	off curve	
651	590	583	907	911	off curve	
650	350	—	538	—		376 ✓
638	560	550	876	861	off curve	
629	545	—	868	—		
617	467	—	759	—		
639	586	588	916	921	off curve	
631	431	—	684	—		297 ✗
662	514	514	777	777	7.85, 7.85	
655	609	582	929	887	off curve	
649	578	567	893	872	off curve	
651	555	557	853	855	8.33, 8.34	
648	560	546	864	841	off curve, 8.23	
654	432	421	659	643	7.25, 7.17	
648	542	543	835	836	8.18, 8.19	
645	566	564	877	875	off curve	
638	536	560	840	877	8.22, off curve	
634	506	500	800	789	7.96, 7.90	
649	568	565	827	821	8.13, 8.07	
658	583	—	885	—		707 ✗
647	598	596	925	921	off curve	

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1930phae.proj.12730

DJP – CH 1906 – July 25, 1930

Strip	Class	Star	y	x	Dyel	Dyel	Cl	Dl	Volts
	p	99	2258	441	700	—	798	.153	
	p	100	2260	519	693	—	796	153	
	p	101	2260	599	710	—	799	152	
		302	2271	681	721	721	805	152	
		303	2270	732	739	750	797	151	
		304	2273	828	583	609	811	152	
		305	2270	1082	277	310	777	152	
		306	2270	1098	657	677	807	157	
		307	2270	1187	641	641	796	154	
		308	2260	1231	713	727	799	158	
22.8		309	2282	272	733	740	816	160	
		310	2280	459	671	669	803	157	
	p	102	2283	537	599	—	809	157	
		311	2288	596	630	628	798	160	
		312	2288	760	662	664	748	160	
	p	103	2280	793	706	—	789	157	
		313	2290	803	792	748	804	159	
		314	2290	933	643	668	793	157	
	p	104	2278	960	687	—	793	158	
	p	105	2280	962	748	—	801	157	
		315	2287	997	740	737	785	154	
		316	2280	1103	613	638	788	155	
	p	106	2283	1297	732	—	801	157	
		317	2283	1343	738	731	787	160	
23.0		318	2310	413	795	729	807	156	
	p	107	2303	419	638	—	807	157	
	p	108	2307	768	723	—	806	157	
		319	2311	773	480	508	792	159	
		320	2310	912	637	639	803	161	
	p	109	2301	1023	697	—	800	162	

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1930phae.proj.12730

Cl-Dk	Dfl-Dk	Dfl-Dk	Rd Dfl	Rd Dfl	Mag.	L. No.
645	544	—	850	—		188 ✓
643	540	—	840	—		164 ✗
647	358	—	554	—		625 ✓
653	569	564	871	871	off curve	
646	588	599	910	927	off curve	
659	431	454	654	696	7.24, 7.44	
625	125	158	200	253	5.28, 5.62	
650	500	520	770	800	7.82, 7.97	
642	487	487	759	760	7.75, 7.76	
641	555	569	866	888	off curve	
656	573	580	872	884	off curve	
646	514	512	797	792	7.97, 7.93	
652	442	—	676	—		642 ✓
638	470	468	736	734	7.64, 7.64	
588	502	504	852	856	8.32, 8.34	
632	549	—	870	—		496 ✗
645	573	589	889	914	off curve	
636	486	506	764	795	7.78, 7.95	
635	529	—	834	—		
644	581	—	903	—		
634	586	573	924	903	off curve	
633	458	473	725	745	7.56, 7.69	
644	575	—	893	—		
627	578	571	921	909	off curve	
651	579	573	892	882	off curve	
650	481	—	740	—		679 ✓
649	566	—	871	—		512 ✗
633	321	249	509	552	6.55, 6.72	
642	476	472	742	736	7.66, 7.64	
638	535	—	837	—		

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1930phae.proj.12730

Dyf — R H 1906 — Dec. 25, 1930

Strip	Class	Star	η	ξ	Δyf	Δyf	α	Δξ	Plate
	f	321	2301	1113	701	721	803	163	
	f	322	2309	1149	679	683	807	159	
23.2	f	323	2330	268	730	701	797	162	
	f	324	2329	525	527	573	787	160	
	p	110	2321	569	737	—	792	168	
	p	111	2307	572	532	—	777	168	
	f	325	2330	619	589	608	800	168	
	f	326	2322	642	710	710	799	170	
	f	327	2318	800	572	588	793	167	
	p	112	2323	1078	761	—	795	171	
	f	328	2320	1112	719	720	803	169	
	f	329	2325	1147	724	740	788	167	
	f	330	2321	1258	691	690	798	167	
		10	1970	847	210	—	738	166	
		1	1867	499	242	—	769	164	
		2	—	—	297	—	769	163	
		3	—	—	321	—	790	163	
		4	—	—	371	—	783	166	
		5	—	—	460	—	776	163	
		6	—	—	552	—	792	170	
		7	—	—	581	—	790	167	
		8	—	—	669	—	780	168	490
		15	1970	871	061	—	639	056	
		1	1867	522	089	—	670	058	
		2	—	—	110	—	690	059	
		3	—	—	149	—	695	060	
		4	—	—	178	—	709	060	
		5	—	—	263	—	701	060	
		6	—	—	390	—	719	059	
		7	—	—	403	—	720	060	
		8	—	—	575	—	719	064	

JMC
RH 1906
Feb 26, 1930

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1930phae.proj.12730

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L No
640	538	558	843	874	8.24, offcurve	
648	520	524	801	807	7.97, 8.00	
635	588	539	926	849	offcurve, 8.29	
627	467	383	748	610	7.70, 7.03	
624	569	—	912	—		~~606~~
609	364	—	598	—		606✓
632	421	440	666	697	7.28, 7.44	
629	540	540	859	859	offcurve	
626	405	421	648	674	7.20, 7.33	
624	590	—	946	—		364✓
634	550	551	868	869	offcurve	
621	557	573	897	925	offcurve	
631	524	523	830	829	8.15, 8.14	
572	44	—	77	—		
599	78	—	130	—		
606	134	—	220	—		
627	158	—	252	—		
617	205	—	332	—		
613	297	—	485	—		
622	383	—	616	—		
623	414	—	665	—		
612	499	—	815	—		
583	5	—	8	—		
512	31	—	51	—		
531	51	—	81	—		
635	89	—	140	—		
649	118	—	182	—		
641	203	—	316	—		
660	331	—	502	—		
660	343	—	520	—		
655	511	—	780	—		

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1930phae.proj.12730

78

FMC RH 1906 Feb. 26, 1930

Fig	Class	Star	y	d	Dyff	Dyff	cc	Dt	Volts
23.4	p	113	2350	380	562	—	730	065	
	f	331	2348	676	380	339	729	069	
	p	114	2350	1149	589	—	739	062	
23.6	p	115	2370	329	560	—	748	069	
	f	332	2360	331	608	610	717	065	
	f	333	2360	439	585	610	700	069	
	f	334	2361	640	540	532	740	069	
	p	116	2370	679	489	—	735	068	
	f	335	2365	830	230	198	729	061	
	f	336	2370	1073	602	590	730	062	
23.8	f	337	2391	330	525	504	690	068	
	f	338	2397	432	540	540	733	069	
	f	339	2390	438	668	630	735	070	
	f	340	2390	472	598	570	750	070	
	f	341	2388	1006	630	632	745	072	
	f	342	2389	1056	592	592	739	072	
	f	343	2380	1283	455	462	750	071	
24.0	p	117	2405	704	595	—	730	078	
	f	344	2401	910	590	591	730	078	
	f	345	2410	1190	550	572	720	078	
24.2	f	346	2420	390	539	532	748	078	
	p	118	2432	400	181	—	740	078	
	p	119	2438	430	535	—	738	078	
	f	347	2421	440	595	595	720	075	
	f	348	2430	570	580	577	745	070	
	f	349	2430	653	300	291	740	078	
	f	350	2430	759	620	640	749	075	
	f	351	2430	900	568	600	742	075	
	p	120	2430	940	498	—	740	072	
	f	352	2431	1060	410	390	741	078	

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1930phae.proj.12730

Obs. Dk	Defl.-Dk	Defl.-Dk.	Reduced	Reduced	Magn	L. No.
665	497	—	746	—		681 x
660	311	270	471	409	7.10, 6.88	
677	527	—	780	—		
679	491	—	722	—		683 x
652	543	575	832	837	off curve	
631	516	541	817	856	off curve	
571	471	463	823	810	off curve	
567	421	—	740	—		570 V
668	169	137	253	205	6.27, 6.05	
668	540	528	810	793	off curve, off curve	
622	457	436	738	701	8.11, 7.96	
664	471	471	709	709	7.99, 7.99	
665	598	560	901	842	off curve	
680	528	500	778	735	8.36, 8.10	
673	568	560	845	832	off curve	
667	520	520	780	780	8.37, 8.37	
679	384	391	565	575	7.42, 7.45	
652	517	—	794			
652	572	573	785	785	8.40, 8.40	
642	472	494	735	770	8.10, 8.29	
670	461	454	687	679	7.90, 7.84	
662	03		65			660 x
660	457	—	691			647 x
645	520	520	806	806	off curve	
675	510	507	756	751	8.22, 8.18	
662	222	213	333	321	6.60, 6.55	
674	545	565	808	838	off curve	
667	493	525	738	786	8.10, 8.42	
668	426	—	636	—		645 V
668	337	317	505	475	7.20, 7.12	

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1930phae.proj.12730

80

FMC RH 1906 Feb. 26, 1930

Strip	class	star	y	x	Dyfe	Dxfe	cl	Dh
24.2	f	353	2420	1270	260	280	719	077
24.4	f	354	2452	378	490	461	728	079
	f	355	2441	388	451	463	708	080
	f	356	2449	853	498	515	720	080
	p	121	2457	1040	542	—	738	080
24.6	p	122	2470	909	620	—	740	080
24.8	f	357	2492	420	452	440	721	080
	f	358	2490	460	608	648	745	080
	f	359	2480	781	535	541	734	080
	f	360	2480	811	550	550	738	079
	f	361	2480	990	600	605	740	080
	f	362	2489	1012	482	459	730	080
	p	123	2490	1040	341	—	733	085
	f	363	2481	1059	630	660	700	083
	f	364	2498	1230	550	550	741	082
25.0	f	365	2518	458	522	520	748	080
	f	366	2510	710	580	582	740	080
	p	124	2500	728	542	—	740	080
	p	125	2518	738	260	—	730	080
	f	367	2510	860	550	541	740	080
	f	368	2509	1190	629	627	740	081
✓		18	1970	871	105	—	668	080
		1	1867	522	112	—	712	083
		2	—	—	138	—	711	090
		3	—	—	200	—	692	090
		4	—	—	212	—	740	090
		5	—	—	212	—	729	091
		6	—	—	410	—	735	090
		7	—	—	432	—	742	091
		8	—	—	580	—	731	090

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1930phae.proj.12730

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
642	183	203	284	315	6.43, 6.54	
649	411	382	633	587	7.66, 7.48	
628	371	383	590	609	7.50, 7.57	
640	418	435	655	680	7.76, 7.87	
658	462	—	700	—		420 x
660	540		818			
641	372	360	580	562	7.46, 7.41	
665	528	568	795	855	off curve	
654	455	461	697	706	7.95, 7.99	
659	471	471	715	715	8.02, 8.02	
660	520	525	780	797	8.36, 8.41	
650	402	379	617	583	7.61, 7.47	
648	256	—	394	—		426 x
667	547	577	818	865	off curve, off curve	
659	468	468	712	712	8.01, 8.01	
668	442	440	660	659	7.78, 7.73	
660	500	502	759	760	8.23, 8.24	
620	462	—	744	—		541 v
650	180	—	277	—		536 x
660	470	461	712	699	8.01, 7.96	
659	548	546	833	829	off curve, off curve	
588	25	—	43	—		
629	29	—	46	—		
621	48	—	78	—		
602	110	—	183	—		
650	122	—	188	—		
638	181	—	284	—		
645	320	—	496	—		
651	341	—	524	—		
641	490	—	765	—		

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1930phae.proj.12730

2 JP – R# 1906 – Dec. 26, 1930

Trip	Class	Star	y	x	Dyfl	Dyfl.	α	Δk	Wts
		10	1970	871	081	—	641	083	490
		1	1867	522	103	—	669	081	
		2	—	—	131	—	675	089	
		3	—	—	171	—	677	087	
		4	—	—	199	—	719	088	
		5	—	—	278	—	694	090	
		6	—	—	382	—	720	089	
		7	—	—	422	—	710	091	
		8	—	—	550	—	709	087	
25.2	f	369	2520	502	393	394	722	090	
	p	126	2530	538	650	—	729	094	
	f	370	2527	769	621	618	740	096	
	p	127	2520	908	973	—	730	098	
	f	371	2531	919	644	647	749	098	
	p	128	2538	957	530	—	723	093	
	f	372	2526	998	661	669	730	094	
25.4	p	129	2551	783	508	—	740	094	
	f	373	2540	790	290	327	739	093.	
	f	374	2540	868	609	633	731	097	
	f	375	2547	877	423	427	734	093	
25.6	f	376	2560	657	650	630	750	097	
	f	377	2560	782	521	533	737	093	
	f	378	2570	783	429	430	738	097	
	p	130	2560	848	633	—	741	097	
	f	379	2569	897	651	613	749	100	
	p	131	2570	916	620	—	744	097	
	f	380	2559	973	652	666	740	097	
	f	381	2561	984	621	630	748	095	
	f	382	2561	1019	627	625	742	092	
25.8	p	132	2577	489	637	—	739	093	

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1930phae.proj.12730

Cl-Dk	Defl Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. NO.
558	−2	—	—	—		
588	22	—	38	—		
592	48	—	82	—		
590	84	—	142	—		
631	111	—	176	—		
604	183	—	304	—		
631	293	—	465	—		
629	331	—	526	—		
622	463	—	744	—		
632	303	304	480	481	7.16, 7.17	
635	556		874			
644	525	512	815	797	off curve, off curve	
632	275		436			479 ×
651	556	549	853	845	off curve, off curve	
640	437		685			457 ×
636	567	575	892	905	off curve, off curve	
646	414	—	641			623 ×
640	197	234	308	366	6.49, 6.71	
634	512	536	806	845	off curve, off curve	
641	330	334	515	521	7.28, 7.32	
653	553	533	846	817	off curve, 8.43	
644	428	440	666	683	7.91, 8.00	
641	342	333	533	520	7.37, 7.31	
644	536	—	832			
644	551	573	849	790	off curve, off curve	
647	523		810			
643	555	569	865	887	off curve, off curve	
653	526	535	804	818	off curve, off curve	
650	535	523	823	805	off curve, off curve	
646	544	—	844			595 ×

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1930phae.proj.12730

α Lyr - R.A. 1906 - Dec 26, 1920.

Trip	Class	Star	γ	Δ	Diff	Diff	cl	Δk	Diff
	p	383	2588	619	543	513	728	095	
	p	133	2590	637	641	—	744	103	
	p	384	2592	658	600	583	733	102	
	p	134	2593	803	631	—	757	104	
	p	385	2580	811	681	649	753	103	
	p	386	2583	968	552	562	750	108	
	p	387	2587	1004	683	685	763	105	
	p	135	2580	1060	568	—	743	100	
26.0	p	388	2607	646	272	291	740	103	
	p	389	2609	718	630	652	753	108	
	p	390	2601	757	602	607	740	109	
	p	391	2610	778	598	610	750	108	
	p	392	2608	800	547	589	740	101	
	p	136	2608	832	572	—	751	108	
	p	393	2600	1052	289	309	729	097	
26.2	p	137	2630	607	630	—	743	097	
	p	394	2617	678	502	488	747	099	
	p	138	2632	958	442	—	733	094	
26.4	p	139	2651	792	519	—	748	093	
	p	395	2649	748	610	607	739	099	
	p	396	2640	787	612	600	720	100	
	p	397	2640	809	970	982	736	100	
	p	140	2642	869	442	—	733	100	
	p	141	2640	903	648	—	743	102	
		10	1970	871	109	—	687	102	
Plate Smashed		1	1867	522	127	—	708	101	
		2	—	—	150	—	718	101	
		3	—	—	189	—	720	100	
		4	—	—	212	—	734	099	
		5	—	—	281	—	717	097	
		6	—	—	393	—	713	098	
		7	—	—	493	—	727	100	885
		8	—	—	567	—	711	100	

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1930phae.proj.12750

Cl-Dk	Defl Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO
633	448	418	708	661	8.10, 7.90	
638	538	—	843	—		
631	498	481	790	761	off curve, 8.40	
653	527	—	806	—		519 x
650	578	546	890	841	off curve, off curve	
642	444	454	693	708	8.03, 8.10	
658	578	580	891	893	off curve, off curve	
643	468	—	729	—		
637	169	188	264	293	6.29, 6.42	
645	522	544	809	843	off curve, off curve	
631	493	498	781	790	8.51, off curve	
642	490	502	764	780	8.41, 8.50	
639	446	488	698	765	8.07, 8.44	
651	472	—	724	—		509 x
632	192	212	303	334	6.47, 669	
646	533	—	824	—		
648	403	389	623	600	7.72, 7.62	
639	348	—	544	—		404 x
655	326	—	483	—		534 x
634	501	508	790	803	off curve, off curve	
620	512	500	825	807	off curve, off curve	
636	270	282	425	443	6.94, 7.03	
633	342	—	540	—		498 x
641	546	—	851	—		
585	7	—	12	—		
607	26	—	43	—		
617	49	—	80	—		
620	83	—	134	—		
635	113	—	178	—		
620	184	=	296	=		
633	295	=	465	=		
627	333	=	530	=		
611	467	=	765	=		

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1930phae.proj.12730

M.R.D. RH 1907 Feb 27, 1930

Mag	Class	Star	y	x	Dyf	Dyf	cc	Dk	Falls	
		13	1970	833	080	—	740	080	5.2	
		1	1880	480	115	—	750	090		
		2	—	—	148	—	780	099		
		3	—	—	180	—	778	088		
		4	—	—	180	—	732	084		
		5	—	—	230	—	763	085		
		6	—	—	323	—	775	083		
		7	—	—	355	—	780	084		
		8	—	—	548	—	778	088		
14.6	p	1	1450	720	415	—	764	090		
	f	1	1460	773	470	580	746	090		
14.8	p	2	1482	649	555	—	770	090		
	f	2	1490	650	520	545	768	090		
	p	3	1492	792	445	—	780	098		
	p	4	1490	879	210	—	780	098		
	p	5	1490	924	480	—	790	092		
15.0	f	3	1500	710	580	610	770	090		
	f	4	1500	938	500	500	774	093		
	f	5	1505	1018	540	560	770	091		
		13	1970	833	098	—	720	094		
		1	1880	480	118	—	750	095		
		2	—	—	140	—	770	098		
		3	—	—	170	—	760	095		
		4	—	—	188	—	740	094		
		5	—	—	225	—	767	099		
		6	—	—	334	—	770	099		
		7	—	—	370	—	777	099		
		8	—	—	540	—	753	095	5.18	

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1930phae.proj.12739

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
660	0	—	0	—		
660	25	—	38	—		
681	49	—	72	—		
690	92	—	133	—		
648	96	—	148	—		
678	145	—	214	—		
692	240	—	348	—		
696	271	—	390	—		
690	460	—	665	—		
674	325	—	483	—		1141 x
656	380	410	580	625	8.01, 8.14	
680	465	—	685	—		1110 x
678	430	455	634	670	8.22, 8.33	
682	347	—	509	—		1104 x
682	112	—	164	—		
698	388	—	555	—		1235 x
680	490	520	720	765	8.54, 8 faint	
681	407	407	597	597	8.08, 8.08	
679	449	469	660	689	8.31, 8.42	
626	4	—	6	—		
655	23	—	35	—		
672	42	—	62	—		
665	75	—	113	—		
643	91	—	142	—		
668	126	—	188	—		
671	235	—	350	—		
678	271	—	400	—		
658	445	—	675	—		

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1930phae.proj.12730

FMC RH 1907 Feb. 27, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk Volts
		1S	1970	833	069	—	682	090
		1	1880	480	110	—	710	081
		2	—	—	125	—	732	090
		3	—	—	192	—	709	090
		4	—	—	188	—	627	090
		5	—	—	250	—	728	088
		6	—	—	365	—	757	086
		7	—	—	951	—	770	089
		8	—	—	552	—	742	085
15.2	f	6	1530	541	477	470	741	098
	p	6	1528	859	540	—	760	100
	f	7	1530	941	540	531	778	111
15.4	f	8	1548	540	500	582	745	109
	p	7	1545	801	509	—	760	101
15.6	p	8	1559	530	480	—	748	105
	f	9	1573	1022	585	610	760	100
	f	10	1571	1119	591	620	760	100
15.8	f	11	1590	569	509	502	749	100
	f	12	1590	580	610	610	758	099
	f	13	1590	680	200	200	750	100
	f	14	1599	702	128	130	755	100
	f	15	1591	790	549	561	760	100
	f	16	1580	819	595	645	742	100
	p	9	1580	851	430	—	771	095
	f	17	1589	1053	580	589	738	098
16.0	p	10	1612	480	561	—	740	100
	f	18	1609	520	423	440	750	100
	p	11	1609	550	468	—	742	105
	f	19	1607	678	473	470	750	101
	f	20	1610	689	589	650	770	102

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1930phae.proj.12730

cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
592	−1	—	-1	—		
629	29	—	46	—		
642	35	—	55	—		
619	102	—	165	—		
537	98	—	182	—		
640	162	—	253	—		
671	279	—	415	—		
681	262	—	384	—		
657	467	—	711	—		
643	379	372	590	580	7.92, 7.89	
660	440	—	666	—		
667	429	420	644	630	8.08, 8.03	
636	441	473	691	740	8.23, 8.41	
659	408	—	620	—		1176x
643	375	—	585	—		1043x
660	485	510	735	770	8.39, off curve	
660	491	520	745	788	8.43, off curve	
649	409	402	630	620	8.03, 8.01	
659	511	511	775	775	off curve	
650	100	120	154	184	5.93, 6.18	
655	28	30	43	46	4.52, 4.53	
660	449	461	680	698	8.21, 8.24	
642	495	545	771	850	off curve	
676	335	—	495	—		1208x
640	482	491	752	766	8.46, 8.48	
640	461	—	720	—		
650	323	340	497	523	7.62, 7.72	
637	363	—	569	—		1044x
649	372	369	573	568	7.87, 7.84	
668	487	548	730	820	8.37, off curve	

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1930phae.proj.12730

Strips	class	Star	y	x	Defl	Defl	cl	Dk
16.0	f	21	1618	703	560	580	750	102
	f	22	1610	883	639	650	748	100
	f	23	1611	1018	519	581	740	100
	fp	12	1610	1020	491	—	759	100
	fp	13	1611	1070	428	—	751	098
	f	24	1612	1118	469	503	760	100
16.2			Cont. in 75, pg. 2					

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red	Defl	Red	Defl	Mag	L. No.
648	458	478	706	737			8.29, 8.41	
648	539	550	830	846			off curve	
640	419	481	655	751			8.15, 8.46	
659	391	—	593	—				8 x
653	330	—	565	—				23 x
661	369	403	559	610			7.82, 7.97	

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1930phae.proj.12730

92

FMC R+H 1918 Mar. 24, 1930

trip	class	star	y	x	Dyll	Dyll	cl	Dh	Vars
		18	1921	780	+0	—	418	−0	
		1	2240	606	−0	—	421	−0	
		2	—	—	000		400	−0	
		3	—	—	038	—	408	−0	
		4	—	—	042	—	415	−0	
		5	—	—	108	—	418	−0	
		6	—	—	195	—	431	−0	
		7	—	—	245	—	401	−0	
		8	—	—	328	—	415	−0	
14.4	f	1	1457	983	040	—	448	−0	
14.8	f	1	1490	1127	089	082	460	−0	
15.0	f	2	1510	657	323	300	437	−0	
	f	3	1509	701	331	330	428	−0	
15.2	p	2	1527	840	149	—	450	−0	
	f	4	1530	1160	320	335	470	−0	
15.4	f	5	1551	962	082	081	440	−0	
	f	6	1552	1060	363	348	465	−0	
	f	7	1550	1088	335	320	459	−0	
	p	3	1541	1130	250	—	469	−0	
15.6	p	4	1562	533	218	—	445	−0	
15.8	f	8	1582	668	~~150~~ 120	120	441	−0	
	f	9	1588	751	340	342	450	−0	
	f	10	1580	830	128	118	463	−0	
16.0	p	5	1600	492	288	—	440	−0	
	f	11	1600	512	250	240	422	−0	
	f	12	1601	570	300	275	445	−0	
	p	6	1609	707	320	—	461	−0	
	p	7	1610	940	230	—	479	−0	
16.2	f	13	1625	390	015	010	432	−0	
16.4	p	8	1650	478	315	—	439	−0	

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1930phae.proj.12769

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L. NO.
418	-0	—	-0	—		
421	-0	—	-0	—		
400	0	—	0	—		
408	38	—	93	—		
415	42	—	101	—		
418	108	—	258	—		
431	195	—	453	—		
401	245	—	611	—		
415	328	—	790	—		
448	40	—	89	—		↑
460	89	82	193	178	~~5.70, 5.60~~	239+
437	323	300	739	686	8.02, 7.77	
428	331	330	771	770	8.18, 8.17	
450	149	—	331	—		183+
470	320	335	680	713	7.76, 7.90	
440	82	81	186	184	5.65, 5.64	
465	363	348	780	748	8.23, 8.06	
459	335	320	730	696	7.98, 7.81	
469	250	—	533	—		297+
445	218	—	490	—		51+
441	120	120	272	272	6.13, 6.13	
450	340	342	755	760	8.08, 8.11	
463	128	118	276	255	6.16, 6.06	
440	288	—	656	—		23+
422	250	240	593	569	7.41, 7.30	
445	~~300~~	275	674	618	7.73, 7.49	
461	320	—	694	—		118 ✓
479	230	—	479	—		240 ✓
432	15	10	36	23	off curve	
439	315	—	717	—		8+

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1930phae.proj.12730

94

FMC RH 1918 Mar. 24, 1930

trip	class	star	y	x	Dyfl	Dyll	cl	Dh	volt
16.4	f	14	1641	600	301	330	458	−0	
16.6	fp	9	1670	1090	323	—	470	−0	
	f	15	1678	1260	360	370	490	−0	
16.8	fp	10	1690	620	050	—	440	−0	
	fp	11	1690	870	120	—	475	−0	
	fp	12	1690	1008	200	—	499	−0	
	f	13	1680	1040	185	—	481	−0	
17.0	fp	14	1710	340	300	—	442	−0	
	f	16	1699	369	170	175	440	−0	
	f	17	1709	1260	008	005	480	−0	
17.2	f	18	1732	675	322	331	441	−0	
	f	19	1730	926	188	192	460	−0	
17.4	fp	15	1757	326	125	—	440	−0	
	f	20	1740	642	101	130	470	−0	
17.6	f	21	1760	389	935	340	422	−0	
	fp	16	1760	669	255	—	458	−0	
	f	22	1770	701	305	280	458	−0	
	f	23	1760	1110	317	330	478	−0	
	f	24	1771	1140	350	360	490	−0	
	f	25	1770	1330	192	190	495	−0	
17.8	f	26	1781	452	318	340	441	−0	
	fp	17	1781	507	243	—	442	−0	
	f	27	1788	522	289	295	430	−0	
	fp	18	1781	570	190	—	429	−0	
	f	28	1790	1053	228	235	490	−0	
18.0	fp	19	1803	409	272	—	448	−0	
	fp	20	1803	519	270	—	459	−0	
	fp	21	1809	530	290	—	433	−0	
18.2	fp	22	1800	1040	340	—	484	005	
	f	29	1827	1183	269	271	480	000	

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1930phae.proj.12739

Cl. Dk	Defl Dk	Defl Dk	Red Defl	Red Defl	Mag.	L. No.
458	301	320	655	696	7.64, 7.82	
470	323	—	687	—		
490	360	370	735	755	7.99, 8.08	
440	50	—	114	—		56 ↙
475	120	—	252	—		205 ↙
499	200	—	400	—		279 ↙
481	185	—	385	—		294 ↙
442	300	—	680	—		1235+
440	170	175	386	397	6.61, 6.67	
480	8	5	16	10	off curve	
441	322	321	730	727	7.99, 7.97	
460	188	192	408	416	6.70, 6.75	
440	125	—	284	—		1284+
470	101	130	215	276	5.83, 6.16	
422	335	340	795	806	8.30, 8.36	
458	255	—	555	—		62 ↙
458	305	280	665	610	7.68, 7.46	
478	317	330	661	690	7.67, 7.79	
490	350	360	715	735	7.90, 8.00	
495	192	190	388	384	6.62, 6.61	
441	318	340	720	770	7.92, 8.18	
442	243	—	550	—		1274+
430	289	295	673	685	7.72, 7.77	
429	190	—	443	—		1279 ↙
490	228	235	465	480	6.93, 6.97	
448	272	—	605	—		1208+
450	220	—	479	—		1242 ↙
433	290	—	676	—		1246 ↙
479	340	—	710	—		
480	269	271	560	564	7.27, 7.29	

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1930phae.proj.12730

FMC RH 1918 Mar. 24, 1930

mag	class	star	y	x	Dyff	Dyff	al	dk	Voet
18.4	f	23	1840	910	298	—	437	000	
	f	24	1841	360	332	—	448	000	
	f	30	1859	700	120	123	472	001	
	f	31	1842	850	282	280	465	002	
	f	32	1859	878	270	267	480	002	
	f	33	1858	1083	268	270	475	005	
	f	34	1851	1140	341	323	490	003	
	f	35	1841	1263	263	260	510	003	
	f	36	1853	1410	270	281	492	005	
18.6	f	37	1863	520	320	322	459	010	
	f	38	1870	819	259	265	469	010	
	p	25	1869	1288	325	—	510	010	
	p	26	1870	1320	190	—	515	010	
	f	39	1869	1390	327	325	490	008	
18.8	p	27	1890	459	310	—	469	010	
	p	28	1890	1040	191	—	480	010	
19.0	f	40	1910	696	330	340	465	010	
19.2	f	41	1941	519	319	368	470	010	
	p	29	1949	620	291	—	472	010	
19.6	f	42	1972	430	340	332	478	005	
	f	43	1960	524	310	320	450	008	
	f	44	1969	1308	240	250	480	010	
		15	1921	780	010	—	460	008	
		1	2240	606	037	—	471	006	
		2	—	—	065	—	452	008	
		3	—	—	118	—	451	005	
		4	—	—	115	—	455	008	
		5	—	—	170	—	488	005	
		6	—	—	240	—	485	010	
		7	—	—	269	—	469	012	
		8	—	—	280	—	470	015	

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1930phae.proj.12730

α-Dk	Defl-Dk	Defl-Dk	Reduced	Reduced	Magn	L. No
437	298	—	680	—		1104+
448	332	—	740	—		1176+
471	124	122	264	259	6.08, 6.07	
463	280	278	605	600	7.43, 7.41	
478	268	265	560	554	7.27, 7.24	
470	263	265	560	564	7.27, 7.29	
487	338	320	694	656	7.81, 7.65	
507	260	257	513	506	7.10, 7.06	
487	265	276	544	565	7.21, 7.28	
479	310	312	690	695	7.79, 7.82	
459	249	255	543	555	7.21, 7.24	
500	316	—	630	—		420+
505	180	—	356	—		426+
482	339	337	705	700	7.86, 7.84	
459	300	—	654	—		1166↓
470	181	—	384	—		376↓
455	320	330	704	725	7.86, 7.95	
460	309	358	672	778	7.72, 8.21	
462	281	—	609	—		1171↓
443	335	327	756	739	8.08, 8.00	
442	302	312	685	706	7.77, 7.86	
470	230	240	490	510	7.01, 7.08	
452	02	—	4	—		
465	31	—	67	—		
444	57	—	128	—		
446	113	—	252	—		
447	107	—	239	—		
483	165	—	342	—		
475	230	—	485	—		
457	257	—	562	—		
455	365	—	802	—		

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1930phae.proj.12730

DLP – RA 1918 – March 24, 1930

Temp	Class	Star	y	x	Defl	Defl	cc	Dk	Volts
		1A	1921	780	032	—	451	023	580
		1	2240	606	052	—	497	028	
		2	—	—	083	—	473	028	
		3	—	—	113	—	473	029	
		4	—	—	123	—	497	028	
		5	—	—	188	—	507	033	
		6	—	—	271	—	498	030	
		7	—	—	292	—	460	033	
		8	—	—	391	—	489	030	
19.8	f	45	1983	271	348	365	468	033	
	f	46	1993	454	197	192	492	047	
	f	47	1982	633	267	267	506	048	
	f	48	1980	832	406	424	513	043	
20.0	f	49	2009	295	377	378	483	046	
	p	30	2001	519	308	—	493	043	
	f	50	2011	1103	399	433	512	043	
	f	51	2008	1154	420	433	518	041	
	p	31	2010	1323	217	—	517	049	
	p	32	2012	1374	437	—	522	042	
20.2	f	52	2021	432	291	302	489	039	
	f	53	2022	852	438	416	497	040	
	f	54	2033	1318	317	327	507	041	
20.4	p	33	2043	299	423	—	478	040	
	f	55	2040	707	907	300	493	042	
	f	56	2040	1037	363	408	523	047	
	p	34	2042	1073	437	—	522	051	
	f	57	2042	1238	367	384	534	054	
	f	58	2053	1312	398	430	523	050	
	f	59	2047	1429	463	467	542	055	
20.6	f	60	2059	368	400	411	496	042	

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1930phae.proj.12730

C.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
428	09	—	21	—		
469	24	—	51	—		
445	55	—	124	—		
444	84	—	190	—		
469	95	—	203	—		
474	155	—	328	—		
468	241	—	515	—		
427	259	—	605	—		
459	361	—	786	—		
435	315	332	725	764	7.98, 8.22	
445	150	145	336	326	6.43, 6.39	
458	219	219	476	476	6.96, 6.96	
470	363	384	773	815	8.26, off curve	
434	331	332	755	758	8.16, 8.18	
450	265	—	588	—		1109
469	356	390	760	831	8.19, off curve	
477	379	392	793	820	8.40, off curve	
474	174	—	367	—		479
480	395	—	823	—		
450	252	263	560	585	7.29, 7.37	
457	393	376	860	820	off curve	
456	276	286	605	626	7.47, 7.54	
438	383	—	873	—		
451	265	258	587	573	7.38, 7.33	
476	316	361	664	756	7.72, 8.15	
471	386	—	820	—		476
480	313	330	651	686	7.66, 7.79	
473	348	380	735	804	8.03, off curve	
487	418	412	838	842	off curve	
434	338	349	780	805	8.31, off curve	

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1930phae.proj.12730

Kgp-RH 1918 - March 24, 1930

Strip	Class	Star	N	d	Δφ cos	Δφ	cc	Δt Volts
	f	61	2072	690	118	122	493	000
	p	35	2063	743	369	—	493	059
	f	62	2060	1012	442	447	537	060
	f	63	2060	1349	401	434	532	059
	f	64	2060	1428	453	453	539	057
	p	36	2074	1436	344	—	540	058
20.8	f	65	2081	1321	467	548	550	064
21.0	p	37	2100	804	328	—	502	063
	f	66	2103	348	428	429	490	068
	p	38	2102	358	389	—	493	067
	p	39	2106	354	438	—	493	063
	f	67	2116	700	089	091	513	062
	f	68	2106	879	382	378	522	059
	f	69	2114	1147	188	171	522	054
	p	40	2101	1393	439	—	548	041
21.2	p	41	2130	322	277	—	484	063
	f	70	2130	372	421	427	493	062
	p	42	2128	437	434	—	494	063
	f	71	2130	500	398	370	507	063
	f	72	2128	1243	472	453	539	061
	p	43	2129	1373	458	—	547	063
	f	73	2129	1432	306	298	529	064
21.4	f	74	2142	507	422	890	523	067
	p	44	2141	096	433	—	507	067
	f	75	2149	632	453	451	510	071
	f	76	2142	672	347	368	522	071
	p	45	2140	718	429	—	530	077
	p	46	2142	933	237	—	548	074
	f	77	2147	1047	434	468	540	078
	f	78	2147	1048	263	363	533	067

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1930phae.proj.12730

d.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.	L.N.O
433	68	72	154	163	5.53, 5.59	
434	310	—	715	—		
471	382	387	800	810	off curve	
473	342	375	725	793	7.99, 8.40	
482	396	396	824	824	off curve	
482	286	—	594	—		498+
486	403	476	825	980	off curve	
439	265	—	603	—		1043+
422	360	361	855	856	off curve	
426	272	—	637	—		1044+
430	375	—	870	—		
451	27	29	60	64	4.47, 4.52	
463	323	319	697	690	7.84, 7.82	
468	134	117	286	250	6.24, 6.09	
507	398	—	785	—		509+
421	214	—	508	—		1030+
431	359	365	834	846	off curve	
431	371	—	860	—		1029+
444	275	307	620	690	7.53, 7.82	
472	411	392	870	830	off curve	
484	395	—	815	—		519+
465	242	229	520	492	7.13, 7.03	
456	355	323	777	708	8.28, 7.89	
440	366	—	830	—		975+
439	382	380	870	865	off curve	
451	276	294	613	659	↑ 7.69	+
453	352	—	777	—	7.50,	2035
474	163		344	—		28=627
462	356	390	772	845	8.26, off curve	
466	296	296	635	635	7.58, 7.58	

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1930phae.proj.1273D

α Gp R.H. 1918- March 24, 1930

Strip	Class	Star	Y	X	Δα cos δ	Δδ	α	δ	Volts
	p	47	2140	1329	418	—	549	073	
21.6	p	48	2170	347	390	—	479	059	
	p	79	2170	430	373	390	491	070	
	p	80	2166	523	338	352	513	068	
	p	81	2178	562	378	422	517	070	
	p	82	2159	747	217	219	512	062	
	p	83	2163	964	332	329	532	067	
	p	84	2169	1227	458	469	528	061	
	p	85	2160	1310	449	442	528	056	
21.8	p	86	2190	572	377	380	500	057	
	p	87	2190	868	260	256	502	057	
	p	49	2180	990	363	—	529	054	
	p	88	2183	1039	372	383	527	058	
	p	50	2182	1169	447	—	520	060	
	p	89	2190	1198	373	380	543	067	
	p	51	2182	1268	406	—	532	064	
	p	52	2178	1284	150	—	524	068	
22.0	p	90	2210	540	302	308	508	071	
	p	91	2202	572	423	460	527	070	
	p	53	2201	1129	353	—	542	068	
	p	54	2200	1142	436	—	538	066	
	p	92	2202	1273	463	457	541	070	
	p	55	2210	1416	372	—	530	063	
		10	1921	780	070	—	493	071	
		1	2240	606	095	—	525	068	
		2	—	—	127	—	507	068	
		3	—	—	152	—	509	068	
		4	—	—	163	—	529	061	
		5	—	—	222	—	524	063	
		6	—	—	302	—	536	063	
		7	—	—	337	—	519	063	
		8	—	—	420	—	520	063	495

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1930phea.proj.12730

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.	L. NO
476	345	—	725	—		523+
420	331	—	787	—		
421	303	320	720	760	7.96, 8.18	
445	270	284	606	637	7.47, 7.60	
447	308	352	687	786	7.80, 8.34	
450	155	157	344	348	6.46, 6.47	
465	265	256	570	550	7.32, 7.24	
467	397	408	849	875	off curve	
472	393	386	835	820	off curve	
443	320	323	724	730	7.94, 8.01	
445	203	199	456	447	6.88, 6.83	
475	309	—	650	—		601✓
469	314	325	670	693	7.74, 7.82	
460	387	—	840			
476	306	313	643	656	7.62, 7.67	
468	342	—	730	—		541✓
459	82	—	179	—		536+
437	231	237	529	542	7.17, 7.21	
457	353	390	771	852	8.24, off curve	
474	285	—	601	—		570✓
472	370	—	785	—		
471	393	387	835	822	off curve	
467	309	—	660	—		534+
422	−1	—	—	—		
457	27	—	59	—		
439	59	—	134	—		
441	84	—	191	—		
462	102	—	222	—		
461	159	—	345	—		
473	239	—	505	—		
456	274	—	600	—		
457	377	—	825	—		

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1930phae.proj.1273p

MRD RH 1918 March 25, 1930

Trip	Class	Star	y	x	Diff	Diff	cc	dk	Volts
		1S	1921	739	030	—	474	020	5.02
		1	2240	565	065	—	490	022	
		2	—	—	105	—	478	020	
		3	—	—	130	—	480	020	
		4	—	—	150	—	482	020	
		5	—	—	200	—	502	018	
		6	—	—	270	—	510	020	
		7	—	—	310	—	512	021	
		8	—	—	435	—	524	020	
22.2	f	93	2220	851	412	405	500	019	
	fp	56	2230	970	210	—	500	020	
	p	57	2234	1069	346	—	518	027	
22.4	f	94	2249	301	370	382	470	029	
	f	95	2243	522	424	430	498	029	
	f	96	2240	719	358	345	498	035	
	fp	58	2242	780	396	—	498	035	
	f	97	2239	961	166	170	514	031	
	f	98	2247	1172	420	413	520	030	
	f	99	2240	1302	306	308	518	030	
22.6	f	100	2264	383	365	364	470	030	
	f	101	2272	836	413	415	510	040	
	fp	59	2272	1040	240	—	537	042	
22.8	f	102	2280	342	418	410	480	032	
	f	103	2289	687	404	405	497	038	
	f	104	2290	1019	410	420	512	040	
	fp	60	2280	1140	414	—	520	040	
		1S	1921	739	030	—	475	027	
		1	2240	565	070	—	500	020	
		2	—	—	110	—	470	020	
		3	—	—	132	—	470	020	

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1930phae.proj.12730

cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag	L. No
454	10	—	22	—		
468	43	—	92	—		
458	85	—	185	—		
460	110	—	238	—		
462	130	—	282	—		
484	182	—	376	—		
490	250	—	510	—		
491	289	—	588	—		
504	415	—	825	—		
481	393	386	816	803	8.27, 8.23	
480	190	—	396	—		625
491	319	—	650	—		587
441	341	353	773	800	8.11, 8.21	
469	395	401	840	854	8.37, off curve	
463	323	310	697	670	7.79, 7.69	
463	361	—	780	—		765
483	135	139	280	288	6.00, 6.04	
490	390	383	795	781	8.19, 8.13	
488	276	278	565	568	7.29, 7.30	
440	335	334	760	759	8.04, 8.03	
470	373	375	793	797	8.19, 8.20	
495	198	—	400	—		606
448	386	378	860	840	8.37, off curve	
459	366	367	796	800	8.20, 8.21	
472	370	380	785	805	8.15, 8.23	
480	374	—	778	—		589
448	103	—	176	—		
480	50	—	104	—		
460	90	—	200	—		
450	112	—	248	—		

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1930phae.proj.12730

mKD RH1918 March 25, 1930

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk Volts
		4	—	—	142	—	497	020
		5	—	—	200	—	494	020
		6	—	—	270	—	500	021
		7	—	—	300	—	470	020
		8	—	—	410	—	480	021
		18	1921	739	020	—	460	010
tmc RH1918 Mar. 25, 1930		1	2240	565	050	—	450	008
		2	—	—	090	—	441	001
		3	—	—	109	—	443	000
		4	—	—	120	—	450	000
		5	—	—	170	—	465	000
		6	—	—	241	—	471	000
		7	—	—	284	—	470	000
		8	—	—	370	—	460	000
23.0	f	105	2309	380	361	369	421	-0
	f	61	2300	500	307	—	490	-0
	f	106	2303	508	353	338	438	-0
	f	107	2310	570	162	162	440	-0
	p	62	2309	951	369	—	469	-0
	p	63	2300	990	270	—	461	-0
	f	108	2312	1220	299	300	473	-0
23.2	f	109	2320	792	259	230	450	-0
23.4	f	110	2352	488	321	325	435	-0
23.6	p	64	2361	439	350	—	430	-0
	f	111	2368	450	320	323	429	-0
	f	112	2369	710	318	323	440	-0
	f	113	2360	780	250	250	455	-0
	p	65	2360	803	348	—	460	-0
	p	66	2360	880	288	—	450	000

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk	Defl.-Dk.	Reduced	Reduced	Mag	L. No.
477	122	—	256	—		
474	180	—	380	—		
479	249	—	519	—		
450	280	—	622	—		
459	381	—	830	—		
450	10	—	22	—		
442	42	—	95	—		
440	89	—	202	—		
443	109	—	246	—		
450	120	—	266	—		
465	170	—	366	—		
471	241	—	513	—		
470	284	—	605	—		
460	370	—	804	—		
421	361	369	857	875	ff curve	
430	307	—	714	—		907 ✓
438	353	338	805	770	8.22, 8.02	
440	162	162	368	368	6.39, 6.39	
469	369	—	785	—		664+
461	270	—	585	—		642 ✓
473	299	300	633	635	7.47, 7.46	
450	259	230	575	510	7.24, 7.00	
435	321	325	737	746	7.88, 7.92	
430	350		815	—		926+
429	320	323	745	751	7.91, 7.94	
440	318	323	723	735	7.83, 7.88	
455	250	250	550	550	7.17, 7.17	
460	348	—	755	—		748 ✓
450	288	—	640	—		713 ✓

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1930phae.proj.12730

FMC RH 1918 Mar. 25, 1930

Strip	class	star	y	ψ	Diff	Diff	cl	Dh	Volh
23.6	f	114	2371	1241	128	129	470	000	
23.8	f	115	2398	390	302	271	480	000	
	f	116	2391	510	251	251	440	000	
	fp	67	2381	935	369	—	459	000	
	f	117	2390	970	373	390	475	000	
	f	118	2390	1140.	302	319	462	000	
	f	119	2380	1170	365	363	480	000	
24.0	f	120	2410	440	320	330	440	000	
	f	121	2410	450	350	360	440	000	
	f	122	2411	642	280	290	438	000	
24.2	f	123	2429	440	095	098	420	000	
	f	124	2419	448	315	310	430	000	
	fp	68	2420	539	339	—	440	001	
	f	125	2422	593	368	380	440	001	
	f	126	2431	607	351	350	439	001	
	fp	69	2420	690	232	—	450	002	
	f	127	2430	780	300	302	450	002	
	f	128	2420	850	291	270	455	002	
	f	129	2430	1118	288	290	475	003	
	f	130	2419	1137	150	168	475	005	
	f	131	2430	1188	100	100	465	005	
24.6	fp	70	2461	710	315	—	438	010	
	f	132	2470	779	298	292	445	009	
	fp	71	2459	1100	340	—	463	010	
24.8	f	133	2490	560	331	329	440	010	
	fp	72	2490	1008	330	—	461	009	
	fp	73	2490	1092	078	—	470	009	
25.2	f	134	2528	620	265	270	449	010	
25.4	fp	74	2555	720	338	—	460	010	
	fp	75	2549	790	952	—	461	010	

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1930phae.proj.12750

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag	L. No.
470	128	129	272	274	5.80, 5.81	
420	302	271	720	646	7.81, 7.50	
440	251	251	570	570	7.23, 7.23	
459	369	—	803	—		688
475	373	390	785	820	8.08, 8.31	
462	302	319	655	691	7.55, 7.69	
480	365	353	760	735	7.99, 7.88	
440	320	330	726	750	7.84, 7.93	
440	358	360	795	816	8.15, 8.27	
438	280	290	637	660	7.48, 7.55	
420	95	98	226	233	5.47, 5.53	
430	315	310	733	720	7.87, 7.81	
439	338	—	770	—		880
439	367	379	835	863	8.41, off curve	
438	350	349	797	795	8.15 ~~7.58, 8.14~~	
448	230	—	512	—		805
448	298	300	665	667	7.57, 7.58	
453	289	268	638	593	7.48, 7.32	
472	285	287	605	609	7.37, 7.38	
470	145	163	308	346	6.02, 6.24	
460	95	95	206	206	5.33, 5.33	
428	305	—	710	—		792
436	289	283	661	648	7.57, 7.50	
453	330	—	730	—		
430	321	319	745	741	7.91, 7.89	
452	321	—	712	—		681
461	69	—	150	—		660
439	256	260	583	590	7.28, 7.31	
450	328	—	730	—		
451	342	—	760	—		758

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1930phae.proj.12730

FMC QH 1918 Mar. 25, 1930

Strip	class	star	γ	γ	Diff	Diff	α	$\Delta\alpha$	Vals
5.4	p	76	2749	1018	350	—	460	010	
	f	135	2450	1032	320	332	480	042	
25.6	f	136	2460	852	280	267	510	078	
	f	137	2468	1008	242	242	515	069	
25.8		15	1921	739	051	—	481	041	
		1	2240	565	081	—	495	039	
		2	—	—	120	—	469	035	
		3	—	—	152	—	462	031	
		4	—	—	153	—	468	030	
		5	—	—	203	—	482	029	
		6	—	—	320	—	480	028	
		7	—	—	300	—	462	028	
		8	—	—	383	—	470	025	

Plate finished

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.	L. No.
450	340	—	755	—		683+
438	278	290	632	661	7.47, 7.58	
432	202	189	469	438	6.84, 6.70	
446	173	173	388	388	6.48, 6.48	
440	10	—	23	—		
456	42	—	97	—		
434	85	—	196	—		
431	121	—	281	—		
438	123	—	280	—		
453	174	—	385	—		
452	292	—	647	—		
434	272	—	627	—		
445	358	—	804	—		

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1930phae.proj.12730

FMC R# 1919 Mar. 26, 1920

Strip	class	star	y	y	Diff	Diff	a	Dk	Volt
		15	1930	692	021	—	461	012	
		1	2259	538	040	—	470	018	
		2	—	—	072	—	465	012	
		3	—	—	100	—	470	015	
		4	—	—	130	—	480	010	
		5	—	—	175	—	450	002	
		6	—	—	220	—	450	000	
		7	—	—	240	—	459	000	
		8	—	—	340	—	441	−0	
14.4	p	1	1451	876	050	—	435	−0	
14.8	f	1	1481	1012	305	329	441	−0	
	f	2	1495	1042	108	121	450	−0	
15.0	f	3	1518	572	315	340	420	−0	
	f	4	1510	620	320	365	427	−0	
15.2	p	2	1530	733	128	—	440	−0	
	p	3	1531	1028	230	—	440	−0	
	f	5	1529	1079	330	350	415	−0	
15.4	f	6	1559	880	091	110	438	−0	
15.6	p	4	1571	910	293	—	419	−0	
	f	7	1560	977	322	320	430	−0	
	f	8	1559	1000	308	340	440	−0	
	f	9	1560	1131	310	325	435	−0	
15.8	p	5	1581	430	200	—	418	−0	
	f	10	1589	580	118	125	419	−0	
	f	11	1590	670	330	322	415	−0	
	f	12	1588	742	133	141	429	−0	
16.0	f	13	1600	430	242	200	429	−0	
	f	14	1608	485	277	290	420	−0	
	p	6	1613	651	302	—	425	−0	
	p	7	1610	840	220	—	410	−0	

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1930phae.proj.12730

cl.-Dk.	Defl.-Dk.	Defl.-Dk	Reduced	Reduced	Mag	L.No
449	9	—	20	—		
452	22	—	49	—		
453	60	—	133			
455	85	—	187	—		
470	120	—	256	—		
448	173	—	386	—		
450	220	—	489	—		
459	240	—	523	—		
441	340	—	771	—		
435	050	—	115	—		
441	305	329	692	746	7.87, 8.03	
450	108	121	240	268	5.97, 6.08	
420	315	340	755	808	8.08, 8.25	
427	320	365	751	862	8.07, 8.41	
440	128	—	292	—		183
440	230	—	523	—		297
415	330	350	759	805	8.08, 8.24	
438	091	110	206	250	5.76, 6.00	
419	293	—	698	—		294
430	322	320	748	746	8.04, 8.03	
440	308	340	731	783	8.00, 8.17	
435	310	325	713	747	7.93, 8.05	
418	200	—	477	—		
419	118	125	283	298	6.15, 6.21	
415	330	322	796	776	8.21, 8.13	
429	133	141	309	268	6.28, 6.08	
429	242	250	563	582	7.35, 7.42	
420	277	290	660	691	7.72, 7.86	
425	302	—	711	—		
410	220	—	537	—		240

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1930phae.proj.12730

7mc Pht. 1919 Mar. 26, 1930

trip	class	star	y	x	Diff	Diff	ce	Dh	volt
16.2	f	15	1629	305	025	030	405	−0	
	fp	8	1620	391	260	—	437	−0	
	f	16	1630	530	332	361	418	−0	
	fp	9	1619	608	291	—	429	−0	
16.4	f	17	1648	513	305	330	442	000	
16.6	fp	10	1679	940	190	—	412	000	
	f	11	1661	995	311	—	425	000	
16.8	fp	12	1693	775	111	—	430	000	
	fp	13	1685	910	185	—	435	000	
	f	18	1681	1177	318	321	435	000	
17.0	f	19	1700	282	171	200	428	000	
	fp	14	1708	522	065	—	429	000	
	fp	15	1708	883	295	—	440	000	
	f	20	1712	1176	029	030	428	000	
17.2	fp	16	1730	619	329	—	415	000	
	fp	17	1722	690	301	—	430	000	
	f	21	1731	840	173	190	425	005	
	f	22	1730	915	318	363	420	005	
	fp	18	1721	1112	323	—	441	005	
17.4	fp	19	1740	945	280	—	419	008	
	f	23	1741	559	120	150	425	005	
17.6	fp	20	1770	573	225	—	420	005	
	f	24	1770	619	291	292	430	005	
	f	25	1768	1028	281	303	435	005	
	f	26	1770	1178	340	348	435	009	
17.8	fp	21	1781	431	131	—	412	008	
	f	27	1788	370	310	338	438	009	
	f	28	1789	440	308	320	438	010	
	f	29	1780	1052	308	310	431	009	
18.0	fp	22	1800	399	331	—	440	009	

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1930phae.proj.12730

el - Dk	Defl - Dk	Defl - Dk	Red Defl	Red Defl	Mag.	L. No.
405	25	30	62	74	4.63, 4.80	
437	260	—	595	—		
418	332	361	792	860	8.20, 8.40	
429	291	—	677	—		118 ✓
442	305	330	691	747	7.86, 8.04	
412	190	—	462	—		9 2~~6~~4 ✓
425	311	—	732	—		
430	111	—	256	—		205 ?
435	185	—	426	—		279 ✓
435	318	321	781	787	8.01, 8.02	
428	171	200	398	467	6.61, 6.95	
429	65	—	151	—		56 ✓
440	295	—	671	—		274 ✓
428	29	30	68	70	4.71, 4.82	
415	329	—	792	—		
430	301	—	700	—		
420	168	185	400	442	6.63, 6.82	
415	313	358	754	866	8.07, 8.43	
436	318	—	730	—		
411	272	—	661	—		1235 +
420	115	145	274	345	6.10, 6.41	
415	220	—	531	—		62 ✓
425	286	287	673	674	7.79, 7.80	
430	276	298	642	693	7.67, 7.86	
426	331	339	777	796	8.15, 8.21	
404	123	—	304	—		1284 +
429	301	329	701	767	7.92, 8.10	
428	298	310	694	722	7.86, 7.97	
422	299	301	711	714	7.93, 7.94	
431	322	—	746	—		

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1930phae.proj.12730

FMC RH 1919 Mar. 26, 1930

Strip	class	star	y	x	Diff	Diff	cc	Dh	Volt
18.0	f	23	1802	413	237	—	438	015	
	f	24	1800	479	190	—	445	020	
	f	30	1799	970	240	260	440	032	
		15	1930	692	039	—	449	032	
		1	2259	538	050	—	450	037	
		2	—	—	080	—	419	038	
		3	—	—	118	—	455	039	
		4	—	—	121	—	460	033	
		5	—	—	185	—	468	040	
		6	—	—	250	—	468	040	
		7	—	—	300	—	473	041	
		8	—	—	410	—	460	040	
		15	1930	672	000	—	463	-0	
		1	2259	515	019	—	470	-0	
		2	—	—	055	—	470	-0	
		3	—	—	090	—	472	-0	
		4	—	—	105	—	478	-0	
		5	—	—	150	—	467	-0	
		6	—	—	230	—	480	-0	
		7	—	—	250	—	485	-0	
		8	—	—	350	—	474	-0	
18.2	f	25	1829	297	242	—	480	-0	
	f	26	1821	409	203	—	488	-0	
	f	27	1828	420	277	—	465	-0	
	f	31	1829	889	340	370	498	000	
	f	32	1830	1080	303	300	479	000	
18.4	f	33	1849	747	290	290	470	001	
	f	34	1850	1160	265	283	495	010	
	f	28	1850	1178	340	—	490	009	
	f	29	1851	1210	170	—	502	009	

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Reduced	Reduced	Magn.	L No.
323	222	—	182	—		1251
425	170	—	400	—		1279
408	208	228	509	558	7.11, 7.31	
417	07	—	17	—		
413	13	—	31	—		
381	42	—	110	—		
416	79	—	190	—		
427	88	—	206	—		
428	145	—	338	—		
428	210	—	489	—		
432	259	—	600	—		
420	370	—	881	—		
463	—	—	—	—		
470	19	—	40	—		
470	55	—	117	—		
472	90	—	191	—		
478	105	—	219	—		
467	150	—	321	—		
480	230	—	479	—		
485	250	—	522	—		
474	350	—	738	—		
480	242	—	504	—		1208+
488	203	—	415	—		1242
465	277	—	595	—		1246
498	340	370	683	742	7.87, 8.10	
479	303	300	631	626	7.69, 7.64	
469	289	289	615	615	7.61, 7.61	
485	255	273	527	562	7.28, 7.42	
481	331	—	687	—		
493	161	—	324	—		426+

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1930phae.proj.12730

FMC RH 1919 Mar. 27, 1920

Strip	class	Star	y	x	Diff	Diff	d	Dk	Coll
18.4	fp	30	1850	1301	1360	—	500	010	
	f	35	1851	1312	345	367	491	010	
18.6	fp	31	1869	200	338	—	491	010	
	fp	32	1870	250	381	—	490	011	
	f	36	1869	411	368	369	490	013	
	f	37	1860	592	148	175	492	011	
	fp	33	1860	660	390	—	505	015	
	f	38	1875	711	300	303	501	014	
	f	39	1860	770	292	298	500	018	
	f	40	1861	978	290	290	517	015	
	f	41	1860	1030	358	380	501	020	
✓	f	42	1872	1285	330	350	499	011	
	f	43	1861	1303	287	292	501	018	
18.8	f	44	1880	335	375	410	502	019	
	fp	34	1841	933	170	—	505	019	
	f	45	1888	978	399	411	495	023	
	f	46	1880	1116	398	410	510	022	
19.0	fp	35	1911	350	315	—	485	021	
	f	47	1912	590	343	400	508	023	
	fp	36	1901	1070	391	—	509	021	
19.4	fp	37	1950	169	398	—	508	020	
	f	48	1948	410	360	361	500	021	
	f	49	1951	901	380	420	518	023	
	f	50	1940	987	370	380	512	022	
	f	51	1940	1002	413	448	511	025	
	fp	38	1941	1137	358	—	498	028	
	fp	39	1941	1245	370	—	519	025	
19.6	f	52	1978	322	388	365	512	025	
	f	53	1960	419	342	378	502	029	
	fp	40	1960	512	800	—	509	024	

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1930phae.proj.12730

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
490	1350	—	2705	—		
481	335	357	697	742	7.92, 8.10	
481	328	—	681	—		1104 +
479	370	—	773	—		1176 +
477	355	356	746	746	8.11, 8.11	
481	137	164	284	341	6.28, 6.53	
480	375	—	782	—		112 +
487	286	289	587	591	7.49, 7.52	
482	274	280	568	583	7.43, 7.50	
502	275	275	549	549	7.33, 7.36	
481	338	360	702	747	7.95, 8.11	
488	319	339	653	692	7.77, 7.91	
483	269	274	557	568	7.39, 7.42	
483	356	391	737	809	8.07, 8.32	
486	151	—	311	—		376 ✓
472	376	388	796	822	8.30, 8.39	
488	376	388	769	792	8.18, 8.28	
464	294	—	632	—		1166 ✓
485	320	377	660	777	7.78, 8.23	
488	370	—	756	—		425 ✓
488	378	—	773	—		
479	339	340	708	710	7.97, 7.99	
495	357	397	721	802	8.01, 8.32	
490	348	358	710	730	7.99, 8.04	
486	398	423	818	871	8.37, off curve	
470	330	—	702	—		451 ✓
494	345	—	698	—		457 +
487	363	340	745	697	8.10, 7.93	
473	313	349	663	739	7.80, 8.07	
485	176	—	363	—		1171 ✓

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1930phae.proj.12730

FMC RH 1919 Mar. 27, 1930

Strip	class	star	y	x	Dyll	Dyll	cl	Dh	Vel
19.6	f	54	1972	1200	240	270	510	020	
19.8	f	55	1988	529	262	282	491	020	
	f	56	1981	1162	310	340	520	021	
	fp	41	1980	1171	412	—	510	021	
	f	42	1990	1200	189	—	513	015	
	fp	43	1990	1270	415	—	497	015	
20.0	f	57	2010	190	370	429	500	020	
	f	58	1999	349	180	198	495	020	
	f	59	2011	1048	405	429	502	020	
20.2	f	60	2021	325	299	330	490	011	
	fp	44	2020	418	289	—	490	010	
✓	fp	45	2032	971	395	—	500	008	
20.4	f	61	2041	600	309	340	498	010	
	f	62	2048	930	300	358	498	010	
	f	63	2050	1130	342	360	478	010	
	f	64	2040	1210	289	300	491	010	
	fp	46	2050	1335	271	—	490	010	
20.6	f	65	2060	260	380	388	480	001	
	f	66	2079	581	092	080	495	000	
	fp	47	2070	643	330	—	488	001	
	f	67	2062	905	400	400	490	001	
	fp	48	2071	1188	390	—	501	009	
	f	68	2060	1201	355	360	490	102	
	f	69	2069	1241	359	365	491	002	
	f	70	2070	1320	379	390	482	004	
20.8	f	71	2080	834	423	410	501	010	
	f	72	2080	1031	410	419	490	010	
	fp	49	2080	1295	360	—	483	007	
21.0	f	73	2107	240	388	414	485	005	
	f	74	2110	770	368	380	480	008	

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1930phae.proj.12730

Co.-Dk.	Defl-Dk	Defl--Dk	Reduced	Reduced	Magn	L. No.
490	220	250	450	510	97 7.22	
477	242	262	~~274~~ 506	~~306~~ 548	7.20, 7.36	
499	289	319	~~737~~ 580	~~951~~ 640	7.48 7.71	
489	391	—	~~78~~ 799	~~238~~ —	~~7.72~~, ~~8.08~~	
498	174	—	942	—		479+
482	400	—	830	—		
480	350	409	730	851	8.05, off curve	
475	160	178	337	375	6.51, 6.66	
482	385	409	800	850	8.31, off curve	
479	288	319	604	666	7.57, 7.81	
480	279	—	571	—		1109✓
492	387	—	789	—		476+
488	299	330	612	676	7.61, 7.84	
488	310	348	634	714	7.69, 8.06	
468	332	350	708	748	7.97, 8.16	
481	279	290	566	603	7.43, 7.57	
480	261	—	543	—		498+
479	379	387	791	808	8.29, 8.33	
495	92	80	186	162	5.76, 5.60	
487	329	—	675	—		2w+
489	349	399	816	816	8.36, 8.36	
498	381	—	763	—		515+
488	353	358	723	732	8.02, 8.05	
489	357	363	729	742	8.04, 8.10	
478	375	386	783	807	8.24, 8.33	
491	413	400	841	815	off curve, 8.34	
480	400	409	833	852	off curve	
476	353	—	805	—		
480	383	409	797	854	8.30, off curve	
472	355	378	752	787	8.14, 8.27	

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1930phae.proj.12730

Fmc AH 1919 March 27, 1930

Strips	class	star	y	x	Dyll	Dyll	28+ Dx	Dx	Volt
20	fp	50	2105	1278	400	—	485	005	
		18	1930	672	012	—	483	008	
		1	2259	515	038	—	490	008	
		2	—		080	—	480	008	
		3	—	—	090	—	477	005	
		4	—	—	110	—	495	005	
		5	—	—	160	—	483	005	
		6	—	—	300	—	490	010	
		7	—	—	280	—	500	015	
		8	—	—	400	—	490	010	
		18	1930	672	015	—	469	010	
		1	2259	515	035	—	475	010	
		2	—	—	070	—	472	010	
		3	—	—	085	—	465	005	
		4	—	—	120	—	484	010	
		5	—	—	160	—	472	008	
		6	—	—	240	—	482	003	
		7	—	—	260	—	487	010	
		8	—	—	360	—	485	010	
21.2	fp	51	2130	260	340	—	487	010	
	f	75	2132	391	335	350	480	010	
	f	76	2120	591	041	048	490	010	
	f	77	2120	730	275	310	508	019	
	f	78	2120	1040	153	142	481	013	
	fp	52	2120	1230	330	—	482	010	
	f	79	2138	1323	247	258	472	010	
21.4	fp	53	2140	209	290	—	482	012	
	f	80	2148	400	373	381	510	021	
	f	81	2149	564	930	370	502	019	
	fp	54	2141	839	201	—	500	020	

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1930phae.proj.12730

C.-Dk.	Defl-Dk	Defl-Uk	Reduced	Reduced	Magn	L. No.
475	395	—	831	—		519+
475	04	—	8	—		
482	30	—	62	—		
472	72	—	153	—		
472	85	—	180	—		
490	105	—	214	—		
478	155	—	324	—		
480	290	—	604	—		
485	265	—	546	—		
480	390	—	813	—		
459	05	—	11	—		
465	25	—	54	—		
462	60	—	130	—		
460	80	—	174	—		
474	116	—	232	—		
464	152	—	325	—		
479	237	—	495	—		
477	250	—	525	—		
475	350	—	737	—		
477	333	—	698	—		1044+
470	325	340	692	723	8.10, 8.22	
480	31	38	65	79	4.64, 4.80	
489	256	291	523	594	7.35, 7.70	
468	140	129	298	275	6.23, 6.10	
472	320	—	678	—		325+
462	287	248	573	536	7.31, 7.41	
470	278	—	591	—		1043+
489	352	360	720	737	8.21, 8.25	
483	311	351	642	724	7.91, 8.22	
480	181	—	374	—		23=627✓

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1930phae.proj.1273D

7 mc AH 1919 Mar. 28, 1930

strip	class	star	y	x	Dyll	Dyll	cl	Rh
21.4	f	82	2150	940	320	325	489	020
21.6	fp	55	2160	229	225	—	498	020
	f	83	2170	322	360	378	498	018
	f	84	2169	418	348	325	490	015
	f	85	2161	640	175	195	505	018
	f	86	2170	858	318	330	509	018
	f	87	2160	871	398	420	510	015
	fp	56	2175	897	325	—	502	010
	fp	57	2170	1075	382	—	498	010
	fp	58	2160	1190	119	—	495	010
21.8	f	88	2180	451	345	390	502	020
	f	89	2180	460	341	359	499	011
	f	90	2191	462	358	380	491	011
	f	91	2191	760	240	260	509	011
	f	92	2190	920	348	359	503	020
	fp	59	2190	1036	275	—	489	018
	fp	60	2189	1320	321	—	499	020
22.0	f	93	2215	430	319	279	497	012
22.2	fp	61	2225	990	200	—	519	015
	fp	62	2225	1018	295	—	510	019
22.4	f	94	2247	650	343	349	515	019
	f	95	2241	891	150	174	495	015
	f	96	2250	1235	271	300	507	012
22.6	fp	63	2263	990	208	—	490	011
	f	97	2270	1091	362	380	508	020
22.8	fp	64	2291	942	260	—	510	015
23.0	f	98	2310	500	188	208	495	012
	fp	65	2302	907	351	—	512	012
23.2	fp	66	2319	452	320	—	508	025
	f	99	2322	725	280	285	510	024

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1930phae.proj.12730

Q.-Dk	Defl-Dk	Defl-Rk	Reduced	Reduced	Magn. D. K.	
469	300	305	638	650	7.88, 7.93	
478	205	—	427	—		1030+
480	342	360	712	750	8.18, 8.31	
475	333	810	700	659	8.12, 7.98	
484	157	177	323	364	6.37, 6.58	
491	300	312	612	636	7.78, 7.87	
495	383	415	775	838	8.38, off curve	
492	315	—	645	—		601✓
488	372	—	762	—		
485	109	—	224	—		536+
482	325	370	675	768	8.04, 8.37	
488	330	348	675	712	8.04, 8.18	
480	347	369	723	768	8.21, 8.36	
498	229	249	459	500	7.03, 7.24	
483	328	334	678	701	8.05, 8.14	
471	257	—	547	—		570✓
479	301	—	628	—		540+
485	307	267	637	557	7.88, 7.50	
514	185	—	359	—		625✓
491	276	—	562	—		587✓
496	324	330	653	665	7.96, 8.01	
480	135	159	281	331	6.14, 6.41	
495	259	288	524	582	7.35, 7.62	
479	197	—	411	—		606✓
488	342	360	699	737	8.11, 8.27	
495	245	—	496	—		642✓
483	176	196	364	406	6.58, 6.78	
500	339	—	673	—		664+
483	305	—	633	—		907✓
486	256	261	526	535	7.37, 7.41	

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1930phae.proj.12730

FMC A.H. 1919 Mar. 25, 1930

Sup	class	star	y	x	Diff	Diff	cl	Dk	volt
23.2	f	100	2320	1150	292	280	507	020	
23.6	p	67	2360	360	330	—	502	019	
	f	101	2358	415	368	380	503	017	
	f	102	2370	642	351	390	501	019	
	f	103	2361	710	280	305	520	023	
	p	68	2360	760	351	—	515	021	
	p	69	2359	835	350	—	511	017	
23.8	f	104	2398	440	252	275	505	018	
	f	105	2398	1070	360	365	510	020	
	f	106	2389	1100	370	391	505	012	
	f	107	2380	1172	148	148	501	013	
24.0	f	108	2399	321	298	315	502	018	
	f	109	2410	370	360	373	495	020	
	p	70.	2410	933	341	—	510	015	
24.2	f	110	2430	370	069	075	510	017	
	f	111	2420	379	342	340	523	013	
	p	71	2429	650	238	—	520	018	
	f	112	2420	710	312	330	510	018	
	f	113	2428	782	305	310	490	018	
	f	114	2421	1069	159	169	507	015	
	f	115	2428	1118	091	110	500	015	
24.4	f	116	2439	1050	301	329	515	019	
24.6	p	72	2470	670	322	—	525	020	
	f	117	2471	709	335	350	512	018	
24.8	f	118	2490	490	365	390	509	012	
	p	73	2480	969	327	—	520	018	
	p	74.	2480	1053	061	—	495	015	
25.2	f	119	2530	550	252	261	522	015	
25.4	p	75	2550	751	370	—	530	015	
	f	120	2555	962	342	340	510	017	

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1930phae.proj.12730

C-Dk.	Defl-Dk.	Defl-Dk	Reduced	Reduced	Magn.	L. No
487	272	280	557	576	7.51, 7.60	
483	311		642			926+
486	351	363	721	747	8.20, 8.29	
482	332	371	690	770	8.09, 8.36	
497	257	282	518	568	7.34, 7.56	
494	330		668			748✓
494	333		675			713✓
487	234	257	482	529	7.13, 7.38	
490	340	345	693	707	8.11, 8.16	
493	358	379	725	769	8.22, 8.36	
488	135	135	275	275	6.16, 6.10	
484	280	297	578	613	7.60, 7.79	
475	340	353	717	742	8.19, 8.29	
495	326		661			679✓
493	52	58	105	117	5.07, 5.16	
510	329	327	645	643	7.92, 7.90	
502	220		438			805✓
492	294	312	597	633	7.69, 7.86	
472	287	292	609	618	7.76, 7.80	
492	144	154	293	313	6.21, 6.32	
485	76	95	157	196	5.46, 5.67	
496	282	316	568	625	7.57, 7.84	
505	302		599			790✓
494	317	332	642	673	7.90, 8.03	
497	353	378	711	762	8.17, 8.34	
502	309		617			681+
480	46		957			660+
507	237	246	463	483	7.05, 7.13	
505	355		703			758+
493	325	323	660	657	7.99, 7.97	

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1930phae.proj.12730

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FMC R# 1919 Mar. 28, 1930

Strip	class	star	y	x	Diff	Diff	cl	Dk	volt
28.6	for	76	2560	690	340	—	509	011	
	1	121	2561	783	221	208	510	014	
~~28.8~~		15	1930	672	020	—	478	019	
		1	2259	515	040	—	483	018	
		2	—	—	073	—	475	013	
		3	—	—	098	—	480	010	
		4	—	—	120	—	488	020	
		5	—	—	170	—	498	027	
		6	—	—	263	—	508	029	
		7	—	—	318	—	505	030	
		8	—	—	385	—	490	030	

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1930phae.proj.12730

α-Dk.	Defl-Dk.	Defl-Dk.	Reduced	Magn.	Mag.	L.No.
498	329		660			
496	207	194	417	391	6.83, 6.71	
459	01	—	02	—		
465	22	—	48	—		
462	60	—	130	—		
470	88	—	187	—		
468	100	—	213	—		
471	143	—	305	—		
479	234	—	488	—		
475	288	—	607	—		
460	355	—	473	—		

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1930phae.proj.12730

Dyf-RH 1910- March 28, 1930.

Strip	Class	Star	Yf	Xb	Dyfl	Dyfl	Cl	Dk	Volts
		10	1920	868	011	—	667	007	510
		1	1934	506	050	—	678	017	
		2	—	—	120	—	680	017	
		3	—	—	183	—	703	017	
		4	—	—	187	—	690	011	
		5	—	—	279	—	707	020	
		6	—	—	408	—	704	017	
		7	—	—	440	—	709	022	
		8	—	—	598	—	697	022	
14.4	p	1	1457	789	266	—	720	030	
	p	2	1441	833	560	—	718	029	
	y	1	1437	837	188	182	719	028	
14.8	p	3	1487	622	600	—	703	032	
	p	4	1479	707	530	—	719	032	
	p	5	1492	778	587	—	701	029	
15.0	y	2	1502	597	617	610	690	033	
	y	3	1501	682	318	339	704	031	
	y	4	1501	927	639	628	727	033	
	y	5	1504	1088	471	448	734	034	
15.2	p	6	1527	730	610	—	718	042	
	y	6	1519	881	593	591	747	038	
	p	7	1528	897	652	—	726	033	
	p	8	1530	957	596	—	718	032	
	p	9	1521	1007	528	—	717	031	
	p	10	1530	1007	583	—	732	032	
15.4	p	11	1549	788	488	—	727	037	
	y	7	1551	809	610	599	729	034	
	y	8	1554	829	639	607	748	042	
	p	12	1540	1059	416	—	727	042	
15.6	y	9	1560	1039	532	520	733	041	

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1930phae.proj.12730

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
660	4	—	6	—		
661	33	—	50	—		
663	103	—	155	—		
686	166	—	242	—		
679	176	—	260	—		
687	259	—	376	—		
687	391	—	569	—		
687	418	—	610	—		
675	576	—	855	—		
690	236	—	342	—	1214+	
689	531	—	770	—	1235+	
691	160	154	232	222	5.76, 5.70	
671	568	—	846	—		
687	498	—	725	—	1104+	
672	558	—	832	—	1201+	
657	584	577	889	880	8.35, 8.31	
673	287	308	426	458	5.63, 5.73	
694	606	595	875	857	8.29, 8.22	
700	437	414	625	590	7.30, 7.18	
676	568	—	840	—	1176+	
709	555	553	783	780	7.93, 7.91	
693	619	—	895	—		
686	564	—	820	—	8+	
686	497	—	725	—	23?+	
700	551	—	786	—	25?+	
690	451	—	654	—	1208+	
689	576	559	836	810	8.14, 8.53	
706	597	565	845	810	8.18, 8.50	
685	374	—	545	—	51+	
692	491	479	710	693	7.63, 7.49	

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1930phae.proj.12730

2gp – R.H. 1910 – March 28, 1920

Mag	Class	Star	x	y	Dx	Dy	Cl	Dk	Volts
15.8	f	10	1589	483	557	574	680	038	
	f	11	1592	531	387	388	692	033	
	f	12	1580	887	585	613	737	040	
16.0	p	13	1610	469	502	—	690	036	
	f	13	1611	817	321	311	683	037	
	p	14	1609	1008	634	—	738	040	
16.2	p	15	1634	759	407	—	710	038	
	p	16	1633	737	580	—	728	047	
	f	14	1630	809	622	597	737	050	
	p	17	1622	853	580	—	737	051	
	f	15	1617	902	492	493	724	043	
	f	16	1622	1180	521	503	747	046	
	p	18	1630	1268	606	—	740	044	
16.4	p	19	1635	460	422	—	713	058	
	p	20	1650	504	555	—	707	057	
	f	17	1642	811	491	480	732	054	
	p	21	1643	842	428	—	759	057	
	f	18	1638	923	660	734	748	057	
	f	19	1650	1182	418	422	744	059	
	f	20	1644	1283	658	662	772	063	
16.6	f	21	1659	647	578	573	722	072	
	f	22	1663	687	659	651	742	077	
	p	22	1659	847	583	—	743	069	
	f	23	1670	1079	265	262	772	062	
16.8	f	24	1679	678	242	222	722	059	
	f	25	1689	707	547	532	782	063	
	f	26	1680	802	650	630	747	067	
	p	23	1679	887	420	—	776	078	
	p	24	1678	992	204	—	759	068	
	f	27	1692	1104	331	330	768	063	

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
642	519	536	810	835	8.03, 8.14	
659	354	355	536	537	6.98, 6.98	
697	545	573	780	820	7.92, 8.08	
654	466	—	714	—		1043+
646	284	274	440	424	6.68, 6.62	
698	594	—	850	—		
672	369	—	550	—		1030+
681	533	—	780	—		1166✓
687	572	547	830	795	8.11, 7.98	
686	449	—	654	—		1251✓
681	449	450	659	660	7.41, 7.42	
701	475	457	677	653	7.49, 7.43	
696	562	—	805	—		135+
655	364	—	555	—		1030+
650	498	—	766	—		1044+
678	437	426	645	629	7.38, 7.32	
702	366	—	522	—		1242✓
691	603	677	871	980	8.29, offscale	
685	354	363	516	530	6.93, 6.97	
709	595	599	840	845	8.16, 8.18	
650	506	501	780	770	7.91, 7.87	
665	582	574	875	860	8.30, 8.25	
674	514	—	762	—		1246✓
711	203	200	285	281	6.05, 6.03	
663	183	163	276	246	5.99, 5.83	
669	484	469	724	700	7.68, 7.60	
680	583	563	855	825	8.22, 8.09	
698	342	—	488	—		1279✓
691	196	—	197	—		56✓
705	268	267	380	378	6.47, 6.45	

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1930phae.proj.12730

ZgP- R H 1910 - March 28, 1930

Strip	Class	Star	y	x	Dyff	Dyff	cc	Dx	Volts
	l	28	1688	1211	605	607	768	061	
17.0	l	29	1709	488	548	537	721	062	
	l	30	1707	578	638	667	700	052	
	l	31	1710	837	372	360	732	053	
	p	25	1709	883	607	—	743	057	
	l	32	1703	986	472	453	771	063	
	p	26	1711	1109	604	—	772	067	
	l	33	1698	1288	594	513	768	067	
	l	34	1700	1307	670	653	748	065	
	l	35	1700	1328	251	246	760	052	
17.2	p	27	1725	780	622	—	716	043	
	l	36	1721	869	642	669	718	037	
	l	37	1730	964	582	598	719	037	
	l	38	1728	1078	644	663	727	034	
17.4	l	39	1750	577	573	580	686	037	
	p	28	1740	672	688	—	702	032	
	p	29	1751	957	460	—	708	031	
	p	30	1751	1132	548	—	717	023	
	l	40	1745	1192	472	453	723	020	
		1s	1920	868	029	—	663	022	
		1	1934	506	062	—	670	021	
		2	—	—	131	—	686	022	
		3	—	—	182	—	700	021	
		4	—	—	191	—	683	021	
		5	—	—	282	—	705	023	
		6	—	—	418	—	699	020	
		7	—	—	432	—	692	019	
		8	—	—	583	—	702	018	490

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1930phae.proj.12730

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
707	544	546	768	772	7.87, 7.88	
659	486	475	739	720	7.73, 7.67	
648	586	615	905	945	off curve	
679	319	307	470	453	6.77, 6.72	
686	550	—	800	—		
708	409	390	576	550	7.11, 7.04	
705	537	—	761	—		118 ✓
701	467	446	665	636	7.46, 7.35	
683	605	588	885	862	8.36, 8.23	
708	199	194	280	274	6.02, 5.99	
673	579	—	860	—		1189 ✓
681	605	632	890	926	8.35, off curve	
676	545	561	805	829	8.01, 8.10	
693	610	629	880	907	8.31, off curve	
649	536	543	826	835	8.10, 8.15	
670	656	—	980	—		1109 ✓
677	429	—	635	—		62 ✓
694	525	—	756	—		
703	452	433	642	615	7.38, 7.27	
641	7	—	11	—		
649	41	—	63	—		
664	109	—	164	—		
679	161	—	237	—		
662	170	—	257	—		
682	260	—	380	—		
679	398	—	586	—		
673	413	—	615	—		
684	565	—	825	—		

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1930phae.proj.12730

H.J.P. – R.H. 1910 – March 29, 1930

Strip	Class	Star	y	x	Dyc	Dyl	Cl	Dk	Falls
		10	1920	850	039	—	683	027	500
		1	1904	488	068	—	695	028	
		2	—	—	133	—	722	027	
		3	—	—	196	—	731	022	
		4	—	—	198	—	713	021	
		5	—	—	292	—	728	022	
		6	—	—	414	—	727	021	
		7	—	—	467	—	737	029	
		8	—	—	669	—	763	030	
17.6		41	1760	332	353	362	720	033	
		42	1770	669	118	127	723	031	
		43	1762	1077	517	513	753	034	
	p	31	1759	1368	660	—	776	038	
17.8		44	1780	572	496	500	742	050	
		45	1789	583	658	657	737	047	
		46	1779	962	542	548	788	057	
	p	32	1788	1227	378	—	798	048	
	p	33	1791	1263	623	—	781	052	
18.0	p	34	1801	750	545	—	767	057	
		47	1803	1047	690	650	798	061	
		48	1798	1137	695	706	803	063	
		49	1797	1287	720	700	787	060	
18.2		50	1826	422	209	195	743	053	
		51	1824	617	608	610	752	057	
		52	1829	782	623	612	764	068	
	p	35	1832	1032	651	—	793	067	
18.4	p	36	1842	329	567	—	752	073	
		53	1852	624	607	596	773	072	
		54	1853	1382	494	498	820	072	
18.6		55	1870	658	650	—	753	086	

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
656	12	—	18	—		
667	40	—	60	—		
695	106	—	152	—		
709	174	—	246	—		
692	177	—	256	—		
706	276	—	382	—		
706	393	—	556	—		
708	438	—	620	—		
733	639	—	872	—		
687	320	329	465	477	6.73, 6.74	
692	87	96	126	139	5.03, 5.14	
719	483	479	670	665	7.48, 7.45	
738	622	—	842	—		
692	446	450	646	650	7.41, 7.43	
690	611	610	835	835	8.15, 8.15	
731	485	491	664	671	7.43, 7.48	
745	330	—	443	—		183+
729	571	—	785	—		206+
710	488	—	688	—		1171
737	629	589	854	799	8.28, 7.98	
740	632	643	853	864	8.26, 8.32	
727	660	640	909	880	8.40, 8.40	
690	156	142	226	206	5.70, 5.58	
695	551	553	791	795	7.93, 7.95	
696	555	544	795	780	7.95, 7.88	
726	584	—	804	—		
679	494	—	725	—		126+
701	535	524	763	746	7.82, 7.74	
748	422	426	562	569	7.16, 7.17	
667	564	—	845	—		

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1930phae.proj.12730

Dyp – CH 1910 = March 29, 1930

Step	Class	Star	y	x	Dep[illegible]	Dep[illegible]	cl	Dd	Talk
	f	56	1869	819	480	450	772	083	
18.8	f	57	1877	314	607	613	754	079	
	p	37	1882	319	653	—	762	078	
	f	58	1888	359	653	673	758	077	
	f	59	1889	643	669	672	781	081	
	p	38	1887	892	682	—	780	080	
	p	39	1880	1361	188	—	893	072	
	p	40	1878	1403	353	—	818	073	
19.0	p	41	1908	407	604	—	753	073	
	f	60	1892	493	593	593	703	072	
	p	42	1899	1097	304	—	802	067	
	f	61	1912	1208	526	517	793	067	
	f	62	1911	1243	380	279	794	062	
19.2	f	63	1926	698	668	688	752	062	
	f	64	1922	1033	662	679	784	063	
	f	65	1925	1069	707	692	772	069	
	f	66	1920	1197	647	647	803	073	
	p	43	1919	1203	456	—	812	073	
	p	44	1927	1346	727	—	811	071	
19.4	f	67	1950	657	457	437	757	067	
	f	68	1942	1150	390	393	790	062	
	f	69	1950	1307	683	670	783	070	
	f	70	1941	1355	177	177	797	072	
	p	45	1957	1423	598	—	810	070	
19.6	p	46	1968	710	570	—	755	067	
	f	71	1967	1021	576	583	783	067	
	f	72	1969	1258	679	687	791	063	
	p	47	1963	1268	594	—	789	063	
	f	73	1972	1268	317	367	780	063	
	f	74	1963	1282	659	658	777	063	

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1930phae.proj.12730

d-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
689	397	367	575	533	7.19, 7.03	
675	528	534	783	790	7.91, 7.93	
684	575	—	840	—		
681	546	596	846	875	8.21, 8.37	
700	588	591	840	845	8.18, 8.21	
700	602	—	860	—		
761	116	—	152	—		239+
745	280	—	376	—		242+
680	531	—	780	—		407v
631	521	521	825	825	8.10, 8.10	
735	237	—	322	—		205v
726	459	450	632	620	7.36, 7.33	
732	318	211	435	288	6.60, 5.87	
690	606	626	880	908	8.40, offscale	
721	599	616	830	855	8.13, 8.26	
703	638	623	910	885	offscale, 8.42	
730	574	574	785	785	7.92, 7.92	
739	383	—	517	—		240v
740	656	—	886	—		225x
690	390	370	565	535	7.16, 7.04	
728	328	331	450	454	6.68, 6.70	
713	613	600	860	842	8.28, 8.20	
725	105	105	145	145	5.20, 5.20	
740	528	—	715	—		
688	503	—	730	—		21+
716	509	516	710	720	7.63, 7.65	
728	616	624	845	855	8.21, 8.26	
736	534	—	735	—		264+
717	314	304	437	425	6.60, 6.56	
714	596	595	835	835	8.16, 8.16	

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1930phae.proj.12730

2 JP – R # 1910 – March 29, 1930

Strip	Class	Star	x	y	Δeff	Δeff	Re	Δe	Volts
19.8	p	48	1983	630	660	—	770	073	
20.0	p	75	1999	803	600	611	767	071	
	p	49	2008	1131	622	—	782	073	
	p	50	2013	1168	390	—	781	062	
	p	76	2020	527	211	221	742	068	
20.2	p	77	2020	1321	463	459	809	072	
	p	78	2050	521	413	397	763	070	
20.4	p	79	2042	1053	698	682	783	073	
	p	51	2039	1190	383	—	768	067	
	p	52	2050	1358	471	—	797	071	
	p	80	2060	282	568	511	731	070	
20.6	p	81	2077	1023	308	297	783	073	
	p	82	2075	1107	569	533	789	068	
	p	83	2069	1218	397	412	772	060	
	p	84	2061	1259	618	614	777	061	
	p	85	2080	446	229	210	745	071	
20.8	p	86	2087	543	680	680	763	077	
	p	87	2080	1151	384	386	807	079	
	p	53	2086	1217	692	—	798	079	
	p	54	2081	1227	567	—	792	080	
	p	88	2077	1242	626	618	787	077	
		10	1930	850	088	—	754	085	
		1	1934	488	129	—	747	087	
		2	—	—	191	—	773	088	
		3	—	—	267	—	778	084	
		4	—	—	260	—	767	087	
		5	—	—	363	—	768	081	
		6	—	—	447	—	768	071	
		7	—	—	493	—	763	068	
		8	—	—	643	—	766	060	

490

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Ø-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
697	587	—	841	—		2035+
696	529	540	759	775	7.79, 7.86	
709	549	—	775	—		274✓
719	328	—	456	—		279✓
679	148	158	218	232	5.66, 5.73	
731	391	387	535	530	7.04, 7.02	
690	340	324	493	470	6.88, 6.76	
710	625	609	880	856	8.41, 8.37	
701	316	—	450	—		294✓
726	400	—	550	—		297+
661	498	441	755	666	7.78, 7.46	
710	235	224	330	316	6.16, 6.10	
721	501	465	695	645	7.56, 7.41	
712	337	352	474	495	6.78, 6.88	
716	557	553	779	771	7.88, 7.86	
674	158	139	234	206	5.75, 5.58	
686	603	603	879	879	8.39, 8.39	
728	305	307	418	421	6.52, 6.54	
725	619	—	854	—		
712	487	—	685	—		
710	549	541	773	761	7.85, 7.82	
672	3	—	4	—		
660	42	—	64	—		
685	103	—	150	—		
694	183	—	264	—		
680	173	—	254	—		
687	282	—	410	—		
697	376	—	540	—		
695	425	—	610	—		
706	583	—	825	—		

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1930phae.proj.12730

Hyp-RH 1910- March 31, 1925

Strip	Class	Star	Y	X	Diff	Diff	U	Dk	Volts
		10	1930	850	000	—	686	0—	570
		1	1934	488	032	—	680	0—	
		2	—	—	098	—	702	0—	
		3	—	—	157	—	707	0—	
		4	—	—	164	—	678	0—	
		5	—	—	258	—	692	0—	
		6	—	—	378	—	708	0—	
		7	—	—	418	—	700	0—	
		8	—	—	584	—	719	0—	
21.0	f	89	2110	688	603	617	698	0—	
	p	55	2109	1069	492	—	720	0—	
	f	90	2106	1292	458	488	752	0—	
21.2	p	56	2130	397	387	—	703	001	
	f	91	2130	597	443	437	710	003	
	f	92	2121	1088	410	392	740	013	
	f	93	2116	1143	481	478	760	016	
	f	94	2117	1224	283	278	751	011	
	f	95	2122	1240	608	599	766	018	
	f	96	2123	1272	346	340	757	018	
21.4	p	57	2142	392	600	—	723	022	
	f	97	2137	708	648	632	727	022	
	f	98	2147	960	938	927	740	021	
	p	58	2142	1011	302	—	740	022	
21.6	p	59	2170	368	552	—	708	020	
	f	99	2163	582	322	317	716	021	
	f	100	2153	631	525	533	743	019	
	p	60	2172	737	271	—	717	020	
	f	101	2171	1407	293	272	777	028	
21.8	f	102	2189	559	557	573	723	028	
22.0	p	61	2201	507	548	—	705	027	

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1930phae.proj.12730

a-Dk	Defl-Dk	Defl-Dk	RedDefl	RedDefl	L,NO	Mag
686	0	—	0	—		
680	32	—	47	—		
702	98	—	140	—		
707	157	—	222	—		
678	164	—	242	—		
692	258	—	374	—		
708	378	—	534	—		
700	418	—	598	—		
719	584	—	811	—		
698	603	617	862	884	off curve	
720	492	—	682	—	338 ✓	
752	458	488	610	650		7.35, 7.52
702	386	—	550	—	305 ✓	
707	440	434	620	614		7.40, 7.36
727	397	379	545	521		7.08, 7.01
744	465	462	625	620		7.43, 7.40
740	272	267	368	360		6.48, 6.46
748	590	581	788	775		8.18, 8.11
739	328	322	444	435		6.77, 6.74
681	578	—	850	—	809 +	
705	626	610	888	865		off curve
679	317	306	466	450		6.83, 6.78
718	280	—	390	—	376 ✓	
688	532	—	772	—	790 ✓	
695	301	296	434	425		6.74, 6.71
724	506	514	700	710		7.76, 781
697	251	—	360	—	627 ✓	
754	250	249	332	330		6.36, 6.32
695	529	545	760	785		8.03, 8.17
678	521	—	769	—	748 ✓	

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1930phae.proj.12730

Dyp - R.A. 1910 - March 31, 1930

Dup	Class	Star	Y	Δ	Dyp	Dyp	cc	Δ Wt
	p	62	2198	1119	638	—	748	017
	p	63	2211	1228	620	—	759	016
22.2	p	64	2228	297	537	—	692	013
	p	103	2227	547	607	611	697	011
	p	104	2223	826	608	611	718	017
	p	105	2217	1318	549	578	765	028
22.4	p	106	2236	291	603	587	710	030
	p	107	2247	603	463	463	699	028
	p	65	2240	734	543	—	753	031
	p	108	2230	759	532	567	728	031
	p	66	2244	893	627	—	752	032
	p	109	2244	899	521	512	751	023
	p	110	2256	1030	953	956	739	023
	p	111	2249	1103	363	371	739	027
		10	1930	850	031	—	726	023
		1	1934	488	061	—	695	015
		2	—	—	121	—	713	018
		3	—	—	189	—	732	019
		4	—	—	193	—	719	020
		5	—	—	290	—	737	022
		6	—	—	438	—	734	026
		7	—	—	458	—	732	021
		8	—	—	623	—	755	025

Cont'd in BK 75

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1930phae.proj.12720

a-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
731	621	—	850	—		
743	604	—	813	—		
679	524	—	770	—		
686	596	600	869	874	off curve	
701	591	594	844	845	8.44, 8.45	
737	521	550	706	745	7.79, 7.73	
680	573	557	840	820	8.42, 8.35	
671	435	435	650	650	7.52, 7.52	
722	512	—	710	—		601
697	501	536	719	770	7.84, 8.09	
720	595	—	825	—		496+
728	498	489	685	671	7.70, 7.64	
710	330	333	465	469	6.82, 6.83	
712	336	344	472	483	6.84, 6.89	
703	8	—	11	—		
680	46	—	68	—		
695	103	—	148	—		
713	170	—	238	—		
699	173	—	248	—		
715	268	—	374	—		
708	412	—	580	—		
711	437	—	615	—		
730	598	—	820	—		

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1930phae.proj.12730

Lgp - RH 1911 - April 20, 1930

Dis	Class	Star	Y	X	Dyf	Dyf	Cl	Dk	Talk
		10	1923	638	010	—	587	001	490
		1	1948	476	042	—	533	003	
		2	—	—	073	—	470	004	
		3	—	—	110	—	598	012	
		4	—	—	120	—	554	017	
		5	—	—	202	—	600	007	
		6	—	—	292	—	603	013	
		7	—	—	328	—	607	010	
		8	—	—	457	—	604	013	
14.2	f	1	1437	818	123	141	602	010	
14.4	p	1	1451	733	176	—	613	020	
	p	2	1440	779	438	—	612	018	
14.6	f	2	1472	898	540	543	619	023	
14.8	p	3	1480	654	392	—	611	017	
	p	4	1492	727	462	—	603	019	
15.0	f	3	1503	557	510	513	597	017	
	f	4	1501	643	231	239	587	016	
	f	5	1501	888	527	579	627	022	
	p	5	1511	957	410	—	633	021	
	f	6	1503	1049	373	376	641	020	
15.2	p	6	1517	513	471	—	607	019	
	p	7	1529	680	561	—	597	016	
	p	8	1528	823	508	—	617	017	
	p	7	1519	843	462	489	612	019	
	p	9	1521	847	520	—	618	017	
	p	10	1521	905	458	—	613	020	
	p	11	1519	956	477	—	632	018	
	p	12	1527	1008	291	—	647	021	
15.4	p	13	1548	738	361	—	608	026	
	f	8	1551	771	470	517	611	022	

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1930phae.proj.12750

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
586	9	—	15	—		
530	39	—	74	—		
466	69	—	148	—		
586	98	—	167	—		
537	103	—	192	—		
593	195	—	328	—		
590	279	—	473	—		
597	318	—	532	—		
591	444	—	750	—		
592	113	131	191	221	5.82, 5.93	
593	156	—	263	—		1214 +
594	420	—	706	—		1235 +
596	517	520	865	870	offcurve	
594	375	—	632	—		1104 +
584	443	—	758	—		1201 +
580	493	496	850	855	offcurve	
571	215	223	376	390	6.58, 6.65	
605	505	557	835	920	8.38, offcurve	
612	389	—	635	—		23 +
621	353	356	567	573	7.47, 7.51	
588	452	—	765	—		1110 +
581	545	—	937	—		1176 +
600	491	—	819	—		
593	443	470	745	793	8.14, 8.28	
601	503	—	835	—		
593	438	—	740	—		8 +
614	459	—	749	—		23 +
626	270	—	430	—		51 +
582	335	—	575	—		1208 +
589	448	495	762	840	8.19, offcurve	

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Dyf-RH 1911 - April 2, 1920

Mag	Class	Star	y	x	Dyff	Dyff	cc	dk	Plts
	f	9	1550	802	462	531	607	021	
	f	10	1551	977	527	542	647	026	
15.6	p	14	1558	877	494	—	622	027	
	f	11	1558	1000	442	471	637	023	
15.8	f	12	1590	447	437	451	573	020	
	p	15	1582	477	483	—	590	028	
	f	13	1593	493	282	301	578	027	
	f	14	1582	700	497	530	595	021	
	f	15	1580	848	463	472	604	020	
	p	16	1590	960	493	—	621	017	
	p	17	1573	1213	504	—	636	021	
16.0	f	16	1611	779	231	242	610	021	
	p	18	1603	802	503	—	597	019	
	p	19	1600	848	528	—	609	021	
	p	20	1607	1103	547	—	630	017	
	p	21	1607	1221	530	—	659	020	
16.2	f	17	1630	771	450	473	603	018	
	p	22	1620	808	311	—	588	017	
	f	18	1617	863	350	383	608	019	
	p	23	1621	915	478	—	607	017	
	p	24	1623	1058	487	—	618	013	
	f	19	1620	1143	382	420	613	013	
16.4	p	25	1650	412	243	—	553	018	
	p	26	1636	691	349	—	583	015	
	f	20	1641	772	390	396	581	020	
	p	27	1640	797	253	—	599	022	
	p	28	1658	801	339	—	605	014	
	f	21	1637	886	497	505	615	020	
	f	22	1652	957	463	463	609	020	
	f	23	1648	1143	299	322	634	022	

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO.
586	441	510	751	870	8.17, off curve	
621	501	516	806	831	8.33, 8.39	
595	467	—	785	—		
614	419	448	684	730	7.94, 8.08	
553	417	431	755	780	8.17, 8.25	
562	455	—	810	—		
551	255	274	463	496	6.99, 7.15	
574	476	509	830	886	8.38, off curve	
584	443	452	760	772	8.19, 8.23	
604	476	—	790	—		
615	483	—	785	—		
589	210	221	356	375	6.51, 6.58	
578	484	—	835	—		1244 ✓
588	507	—	861	—		1274 +
613	530	—	865	—		
639	510	—	800	—		135 +
585	432	455	735	775	8.09, 8.22	
571	294	—	515	—		1251 ✓
589	331	364	563	617	7.45, 7.69	
590	461	—	781	—		
605	474	—	782	—		40 +
600	369	407	615	680	7.67, 7.92	
535	225	—	420	—		1030 +
568	364	—	640	—		1166 ✓
561	310	376	553	670	7.42, 7.89	2 ✓
577	231	—	400	—		1248
591	325	—	550	—		1246 ✓
595	477	485	803	815	8.32, 8.35	
589	443	443	750	750	8.15, 8.15	
612	277	300	453	490	6.95, 7.12	

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AGP – RH 1911 – April 2, 1930

Strip	Class	Star	y	x	Δyfl	Δyfl	cl	dk	Paths
	f	24	1641	1246	547	572	623	023	
		10	1923	838	027	—	583	020	
		1	1948	476	047	—	546	020	
		2	—	—	085	—	592	027	
		3	—	—	133	—	607	017	
		4	—	—	137	—	563	023	
		5	—	—	227	—	581	019	
		6	—	—	311	—	593	022	
		7	—	—	319	—	589	019	
		8	—	—	442	—	592	021	485
	AGP – RH 1911 – April 3, 1930								
		10	1923	811	027	—	628	023	500
		1	1948	448	049	—	572	020	
		2	—	—	092	—	608	022	
		3	—	—	132	—	621	020	
		4	—	—	131	—	592	013	
		5	—	—	227	—	622	023	
		6	—	—	353	—	623	027	
		7	—	—	340	—	632	025	
		8	—	—	473	—	640	024	
16.6	p	29	1663	427	562	—	600	025	
	p	30	1662	432	391	—	562	026	
	p	31	1662	533	527	—	612	023	
	f	25	1659	582	454	471	612	026	
	f	26	1663	621	508	513	623	027	
	f	27	1668	762	466	516	629	030	
	p	32	1670	813	272	—	650	098	
	p	33	1667	919	123	—	652	028	
	f	28	1667	1018	198	201	672	031	
16.8	f	29	1679	607	172	171	623	032	

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1930phae.proj.12750

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
600	524	549	872	915	affaire	
563	4	—	12	—		
526	27	—	51	—		
571	64	—	112	—		
590	116	—	196	—		
541	115	—	212	—		
562	208	—	370	—		
571	289	—	506	—		
570	300	—	525	—		
571	421	—	736	—		
605	4	—	6	—		
552	29	—	53	—		
586	70	—	119	—		
601	112	—	186	—		
579	118	—	204	—		
599	204	—	340	—		
596	326	—	546	—		
607	315	—	519	—		
616	449	—	729	—		
575	537	—	935	—		
536	365	—	680	—		
589	504	—	855	—		↑ 1044 +
586	428	445	730	760	7.96, 8.05	
596	481	486	805	815	8.18, 8.20	
599	436	486	730	811	7.90, 8.19	
620	242	—	390	—		1279 ✓
624	95	—	153	—		56 ✓
641	167	170	260	265	6.15, 6.17	
591	140	139	236	235	6.03, 6.03	

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1930phae.proj.12730

Zgp-CH 1911- April 3, 1920.

strip	Ass	star	y	d	Δyll	Δyll	cl	Δk	Δlt
		30	1689	642	410	473	607	032	
		31	1678	719	531	543	619	027	
		32	1680	737	513	537	629	038	
		33	1690	1038	243	242	682	032	
		34	1683	1144	503	543	686	030	
		35	1692	1221	410	427	682	028	
		36	1697	1262	192	202	682	023	
17.0		37	1710	421	413	440	591	030	
		38	1710	751	527	530	640	030	
		39	1710	769	269	313	613	031	
	p	34	1702	812	471	—	633	028	
		40	1702	918	349	397	648	023	
		41	1697	1241	573	541	653	022	
17.2	p	35	1723	711	450	—	560	007	
		42	1730	898	495	482	628	011	
	p	36	1732	1063	431	—	646	011	
	p	37	1728	1319	507	—	668	012	
17.4		43	1750	512	458	479	592	012	
	p	38	1747	603	340	—	597	010	
	p	39	1740	889	310	—	620	013	
		44	1741	1124	369	413	652	006	
17.6		45	1762	287	267	277	560	010	
		46	1766	502	482	543	570	012	
		47	1770	624	073	070	564	011	
		48	1771	732	465	473	588	010	
		49	1761	911	517	553	618	011	
		50	1760	1031	400	417	633	011	
	p	40	1768	1078	528	—	623	010	
	p	41	1762	1178	219	—	641	011	
	p	42	1760	1316	400	—	632	013	

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	L.No
575	378	441	656	766	7.72, 7.91	
592	504	516	800	874	off curve	
591	475	499	805	845	8.17, off curve	
650	211	210	324	323	6.40, 6.39	
656	473	513	720	780	7.92, 8.10	
654	382	399	585	610	8.12, 7.55	
659	169	179	256	272	6.13, 6.21	
561	383	410	683	730	7.82, 7.96	
610	497	500	815	820	8.20, 8.20	
582	238	282	410	485	6.73, 7.04	
605	443	—	731	—		
625	326	374	522	598	7.21, 7.50	
631	551	549	843	870	off curve	
553	443	—	800	—		1189 ✓
617	424	471	686	763	7.82, 8.05	
635	420	—	660	—		
656	495	—	754	—		
580	446	467	770	805	8.07, 8.17	
587	330	—	560	—		1109 ✓
607	297	—	489	—		62 ✓
646	357	407	553	630	7.32, 7.62	
550	257	267	467	485	6.96, 7.04	
558	470	531	840	950	off curve	
573	62	59	108	103	5.10, 5.07	
578	455	463	785	799	8.11, 8.15	
607	506	542	834	890	off curve	
622	389	406	625	655	7.60, 7.72	
613	518	—	846	—		
630	208	—	330	—		183 +
619	387	—	625	—		206 +

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1930phae.proj.12730

Hgp-R #1911 – April 3, 1930

Trip	Class	Star	y	Δδ	Δdec	Δdec	cc	Δk	Δdec
17.8		51	1781	527	930	348	550	014	
		52	1778	917	362	387	606	013	
18.0		43	1801	703	342	—	584	012	
		53	1801	1002	489	556	617	013	
18.2		54	1828	378	109	113	562	012	
		55	1826	570	402	429	584	014	
		56	1828	738	466	487	593	013	
		44	1820	987	462	—	622	010	
18.4		57	1852	579	381	492	555	015	
		45	1850	1317	112	—	639	017	
		58	1850	1237	328	355	631	018	
		46	1846	1359	209	—	656	017	
18.6		47	1862	281	959	—	561	021	
		59	1870	807	393	480	560	022	
		60	1868	775	288	337	617	021	
		61	1870	898	450	483	604	020	
		62	1870	1141	502	554	633	017	
18.8		63	1878	269	419	448	555	012	
		48	1890	463	727	—	566	013	
		49	1887	527	470	—	572	019	
		64	1889	698	470	483	592	014	
		65	1886	791	520	530	561	012	
		50	1879	864	470	—	597	011	
		51	1880	1056	162	—	620	017	
19.0		52	1903	278	419	—	561	012	
		66	1910	719	483	510	600	013	
		53	1897	1163	304	—	637	012	
		67	1910	1162	351	379	626	009	
		68	1910	1197	313	261	639	017	
19.2		54	1922	367	387	—	557	020	

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1930phae.proj.12730

c-dk	Defl-dk	Defl-dk	Red Defl	Red Defl	Mag	L. No
536	316	334	590	623	7.47, 7.60	
593	349	374	590	630	7.47, 7.62	
572	330	—	576	—		1171 ✓
604	476	543	790	899	8.13, off curve	
550	97	101	176	183	5.73, 5.78	
570	388	419	680	735	7.80, 7.97	
580	453	474	780	815	8.09, 8.19	
612	452	—	738	—		
540	366	417	677	772	7.78, 8.09	
622	95	—	153	—		239 +
613	310	337	505	550	7.14, 7.31	
639	192	—	300	—		242 +
540	338	—	625	—		926 +
538	371	458	689	850	8.32, off curve	
596	267	316	447	530	6.88, 7.22	
584	430	463	736	793	7.96, 8.13	
616	485	537	785	870	8.11, off curve	
543	407	436	753	805	8.02, 8.18	
553	414	—	749	—		848 ✓
553	451	—	816	—		975 +
578	456	469	789	810	8.12, 8.18	
549	508	518	926	945	off curve	
586	450	—	783	—		105 ✓
603	145	—	240	—		205 ✓
549	401	—	729	—		
587	470	497	800	846	8.16, off curve	
625	292	—	466	—		240 ✓
617	342	364	555	590	7.34, 7.48	
622	296	244	476	392	7.01, 6.67	
537	367	—	683	—		907 ✓

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1930phae.proj.12730

2yP – C.H. 1911 – April 3, 1930

Strip	Class	Star	y	x	Δeff	Δeff	α	Δx	Notes
	f	69	1921	553	512	522	578	020	
	f	70	1926	652	593	518	558	013	
	f	71	1921	739	420	480	598	017	
	f	72	1923	1023	547	569	628	020	
	f	73	1920	1150	457	515	630	020	
	p	55	1930	1152	539	—	627	019	
	p	56	1921	1323	403	—	625	018	
		14	1923	811	021	—	607	017	
		1	1948	448	044	—	550	013	
		2	—	—	080	—	583	013	
		3	—	—	116	—	599	010	
		4	—	—	129	—	553	012	
		5	—	—	240	—	597	012	
		6	—	—	320	—	598	013	
		7	—	—	327	—	600	014	
		8	—	—	453	—	613	018	500
4mc R#1911 @ Apr. 4, 1930		1s	1923	825	010	—	470	-0	
		1	1948	462	030	—	520	-0	
		2	—	—	061	—	560	000	
		3	—	—	098	—	560	000	
		4	—	—	153	—	547	000	
		5	—	—	226	—	568	000	
		6	—	—	358	—	574	000	
		7	—	—	308	—	575	000	
		8	—	—	492	—	570	000	
19.4	f	74	1950	628	275	280	560	010	
	f	75	1940	1120	278	291	608	015	
	f	76	1940	1328	113	108	605	015	
19.6	p	57	1962	538	442	—	540	011	
	p	58	1970	689	413	—	580	010	

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1930phae.proj.12730

Cl-Dk	Diff Dk	Diff Dk	Red Diff	Red Diff	Mag	L. No
558	492	502	880	896	off curve	
545	580	505	1006	925	off curve	
581	403	463	694	795	7.85, 8.13	
608	527	549	865	901	off curve	
610	437	495	716	810	7.91, 8.19	
608	526	—	855	—		
617	385	—	624	—		
590	4	—	7	—		
537	31	—	58	—		
570	67	—	118	—		
587	106	—	180	—		
541	117	—	216	—		
585	228	—	390	—		
585	307	—	525	—		
686	313	—	456	—		
595	435	—	730	—		
470	010	—	21	—		
520	030	—	58	—		
560	061	—	109	—		
560	098	—	175	—		
547	153	—	279	—		
568	226	—	396	—		
574	358	—	625	—		
575	308	—	535	—		
570	492	—	862	—		
550	265	270	483	490	7.09, 7.10	
593	263	276	444	465	6.92, 6.99	
590	98	93	166	158	5.51, 5.53	
529	431	—	815	—		
570	403	—	705	—		

979-2r

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1930phae.proj.12730

Fmc RA 1911 Apr 4 1920

Sup	class	star	y	x	Diff	Diff	cl	Dk	var
.6	f	77	1963	990	437	419	590	011	
	f	78	1970	1239	250	270	630	015	
	f	79	1961	1250	489	520	620	012	
	fp	59	1962	1367	175	—	619	020	
19.8	fp	60	1980	280	419	—	530	015	
	fp	61	1991	489	421	—	530	015	
	fp	62	1990	609	481	—	551	015	
	fp	63	1980	1112	410	—	600	015	
	fp	64	1991	1148	299	—	600	015	
20.0	f	80	2010	280	465	490	519	019	
	f	81	2000	773	411	450	561	012	
	fp	65	2018	1170	209	—	595	015	
	f	82	2017	1290	290	320	610	012	
20.2		18	1923	825	020	—	471	010	
		1	1948	462	040	—	519	011	
		2	—	—	080	—	561	011	
		3	—	—	112	—	550	010	
		4	—	—	120	—	540	010	
		5	—	—	211	—	560	015	
		6	—	—	281	—	557	012	
		7	—	—	308	—	555	011	
		8	—	—	461	—	570	011	

3d gp RH 1911 Apr 4 1920

1a	1923	825	020	—	563	023	507
1	1948	462	052	—	519	022	
2	—	—	088	—	553	018	
3	—	—	109	—	570	017	
4	—	—	143	—	522	017	
5	—	—	188	—	549	011	
6	—	—	272	—	548	012	
7	—	—	317	—	549	014	

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1030phee.proj - 12730

R-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.N.O
579	426	408	735	706	8.05, 7.96	
615	235	255	382	415	6.66, 6.79	
608	477	408	785	672	8.20, 7.86	
599	155	—	258	—		
515	404	—	785	—		892+
515	406	—	790	—		893 ✓
536	466	—	870	—		2035+
585	395	—	675	—		274 ✓
585	284	—	485	—		279 ✓
500	446	471	891	941	off curve	
549	399	438	726	800	8.03, 8.25	
580	194	—	334	—		294 ✓
598	278	308	464	514	7.00, 7.20	
461	10	—	21	—		
508	29	—	57	—		
550	69	—	125	—		
540	102	—	189	—		
530	110	—	208	—		
545	196	—	360	—		
545	269	—	493	—		
544	297	—	545	—		
559	450	—	805	—		
540	−3	—	—	—		
497	30	—	60	—		
535	70	—	131	—		
553	92	—	166	—		
505	126	—	250	—		
538	177	—	328	—		
536	260	—	485	—		
535	303	—	565	—		

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1930phae.proj.12730

Agp- R+H 1911 — April 5 1930

Strip	class	star	y	y	Dyd	Dyd	cc	Dk
		8	—	—	452	—	561	012
20.4	p	66	2054	1210	353	—	581	017
20.6		83	2063	253	220	385	520	013
		84	2074	995	168	210	578	017
		85	2059	1052	293	373	587	023
		86	2072	1077	401	417	577	022
		87	2067	1189	243	263	584	022
		67	2062	1192	463	—	600	021
		88	2073	1213	447	455	582	023
		89	2073	1213	428	440	593	023
		90	2060	1229	469	469	608	023
20.8		91	2078	328	410	442	502	013
		92	2073	350	439	443	507	013
		93	2081	418	103	111	515	016
	p	68	2090	1053	339	—	583	022
		94	2078	1122	220	253	587	024
21.0	p	69	2110	216	253	—	510	024
	p	70	2104	297	407	—	502	023
		95	2112	1113	319	344	572	021
		96	2112	1195	210	232	537	017
		97	2123	1162	343	369	587	017
		10	1923	825	018	—	549	014
		1	1948	462	043	—	513	017
		2	—	—	080	—	542	019
		3	—	—	127	—	567	020
		4	—	—	137	—	517	021
		5	—	—	195	—	550	012
		6	—	—	271	—	550	013
		7	—	—	310	—	549	020
		8	—	—	432	—	567	021

490

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1930phea.proj.12730

Cl-Dk	Defl-Dk	Defl Dk	Red Defl	Red Dfl	May	L.NO
549	440	—	802	—		
564	336	—	596	—		
507	307	372	606	728	7.67, 8.12	
561	151	193	269	344	6.12, 6.52	
564	270	350	478	621	7.09, 7.72	
555	379	395	685	714	7.96, 8.08	
562	221	241	396	440	6.73, 6.93	
579	442	—	763	—		
559	424	432	760	771	8.25, 8.27	
570	405	417	711	730	8.08, 8.13	
585	446	440	761	754	8.24, 8.22	
489	397	429	811	877	8.42, off curve	
494	426	430	862	870	off curve	
499	87	95	174	190	5.64, 5.73	
561	317	—	562	—		338
563	196	229	347	407	6.51, 6.79	
486	229	—	471	—		844
479	384	—	800	—		840
551	298	323	540	585	7.37, 7.58	
520	193	215	370	414	6.62, 6.81	
570	326	352	569	617	7.49, 7.72	
535	4	—	7	—		
496	26	—	52	—		
523	61	—	117	—		
547	107	—	195	—		
496	116	—	234	—		
538	183	—	339	—		
537	358	—	664	—		
529	290	—	548	—		
546	411	—	752	—		

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1930phae.proj.12730

Zgp - R.A. 1911 - April 5, 1928.

Strip	class	star	y	x	Dyl	Dyl	cl	Dk	Volts
		10	1923	828	051	—	587	043	490
		1	1948	467	067	—	530	037	
		2	—	—	098	—	562	037	
		3	—	—	149	—	586	047	
		4	—	—	158	—	563	051	
		5	—	—	227	—	586	051	
		6	—	—	313	—	594	041	
		7	—	—	340	—	579	038	
		8	—	—	481	—	569	030	
21.2	f	98	2132	477	390	487	552	021	
	p	71	2124	553	438	—	554	017	
	f	99	2130	571	351	393	537	021	
	p	72	2130	582	411	—	549	022	
	p	73	2130	999	203	—	583	021	
	f	100	2120	1061	297	317	585	018	
	f	101	2119	1213	442	468	582	017	
	f	102	2120	1247	243	268	570	018	
21.4	p	74	2149	387	203	—	536	013	
	f	103	2138	682	458	474	539	014	
	f	104	2143	935	228	252	553	012	
21.6	f	105	2160	279	437	437	510	014	
	p	75	2163	822	380	—	507	013	
	f	106	2163	549	440	459	537	011	
	f	107	2164	558	249	251	518	009	
	p	76	2172	728	191	—	541	008	
	f	108	2158	1307	453	474	568	010	
	f	109	2170	1381	182	193	579	010	
21.8	p	77	2190	237	300	—	500	012	
	f	110	2190	033	377	407	000	016	
	p	78	2177	1139	452	—	562	012	

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1930phae.proj.12780

Ce Dk	Diff Dk	Diff Dk	Red Diff	Red Diff	Mag L. No	
544	8	—	14	—		
493	30	—	61	—		
525	61	—	114	—		
536	102	—	190	—		
512	107	—	209	—		
535	176	—	328	—		
553	272	—	490	—		
541	302	—	557	—		
539	451	—	835	—		
531	369	466	694	876	8.09, offcurve	
537	421	—	783	—		778+
516	330	372	638	719	7.90, 8.14	
527	389	—	737	—		765 ✓
562	182	—	324	—		376 ✓
567	279	299	491	526	7.15, 7.31	
565	425	451	752	799	8.22, 8.29	
552	225	250	402	453	6.84, 7.01	
523	240	—	458	—		805 ✓
525	444	460	845	874	8.36, offcurve	
541	216	240	399	444	6.83, 6.99	
496	423	423	856	855	offcurve	
494	367	—	743	—		807+
526	429	448	816	853	8.30, offcurve	
509	240	242	471	473	7.08, 7.09	
533	183	—	342	—		709+
558	443	464	792	831	8.27, 8.32	
569	172	183	302	321	6.41, 6.49	
488	288	—	589	—		809+
484	361	391	745	808	8.20, 8.31	
550	440	—	799	—		

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1930phae.proj.12730

AGP-CH 1911 - April 5, 1930

Type	Class	star	y	x	Dep1	Dep1	cl	dk Note
	p	79	2177	1043	478	—	568	012
	p	80	2179	1109	437	—	556	015
	p	81	2189	1218	403	—	559	014
22.0	p	82	2212	499	339	—	507	017
	p	111	2211	1291	393	405	563	013
22.2	p	83	2230	417	393	—	510	012
	p	112	2228	522	429	479	510	014
	p	113	2230	733	347	411	542	013
	p	114	2223	801	442	458	548	012
22.4	p	115	2240	266	428	442	530	017
	p	84	2250	290	343	—	540	017
	p	85	2241	622	461	—	567	012
	p	86	2240	728	393	—	580	013
	p	116	2242	873	363	412	569	017
	p	87	2238	888	470	—	596	018
	p	117	2252	1006	251	279	583	021
	p	118	2247	1078	279	273	627	030
22.6	p	119	2270	313	438	457	548	030
	p	120	2271	343	440	447	553	028
	p	121	2270	363	420	436	563	032
	p	122	2260	774	350	397	618	047
	p	123	2263	800	447	467	612	039
	p	124	2260	879	470	482	621	037
	p	88	2258	1050	457	—	615	033
22.8	p	125	2279	279	448	460	538	030
	p	126	2290	322	405	438	569	042
	p	127	2290	324	391	390	560	036
	p	89	2276	539	371	—	597	035
	p	90	2283	696	232	—	588	043
	p	128	2280	1290	506	567	632	069

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1930phae.proj.12780

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn. d. Ks	
556	466	—	837	—		
541	422	—	780	—		
545	389	—	716	—		
490	322	—	641	—		748
550	380	382	690	692	8.07, 8.08	
498	381	—	764	—		
496	415	465	837	938	8.33 off curve	
529	334	398	632	753	7.88, 8.21	
536	430	446	803	830	8.30, 8.32	
513	411	425	800	825	8.29, 8.31	
523	326	—	623	—		
555	449	—	810	—		
567	380	—	671	—		601
552	346	395	628	716	7.86, 8.14	
578	452	—	780	—		496
562	230	258	410	460	6.88, 7.04	
597	249	243	418	407	6.90, 6.87	
518	408	427	788	822	8.27, 8.31	
533	412	419	770	786	8.22, 8.26	
531	388	404	732	763	8.19, 8.22	
571	303	290	530	507	7.34, 7.23	
578	408	428	712	748	8.13, 8.20	
584	433	445	743	763	8.19, 8.23	
582	424	—	730	—		425
508	418	430	876	940	8.31, 8.35	
521	363	396	697	761	8.09, 8.22	
504	335	334	665	665	8.01, 8.01	
542	316	—	580	—		713
555	189	—	342	—		625
563	437	498	778	886	8.25, off curve	

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1930phae.proj.12730

Wgp – RH 1911 – April 5, 1930

Strip	Class	Star	y	x	Δeff	Δeff	cl	Δk	Ndk
	p	91	2277	1289	452	—	640	050	
23.0	p	92	2300	932	413	—	543	034	
	p	129	2311	343	347	356	539	031	
	p	93	2310	622	413	—	560	030	
	p	94	2310	724	518	—	588	023	
	p	130	2300	762	290	243	587	027	
23.2	p	131	2323	737	413	472	573	023	
	p	95	2326	842	472	—	576	021	
	p	96	2332	1049	360	—	603	023	
	p	97	2322	1152	379	—	610	023	
	p	132	2318	1277	452	468	623	022	
	p	133	2327	1312	402	429	628	021	
23.4	p	134	2351	798	987	423	543	023	
	p	135	2341	622	262	256	559	037	
	p	136	2351	641	396	401	570	023	
	p	98	2339	649	292	—	557	023	
	p	99	2340	877	491	—	573	019	
	p	100	2357	1167	263	—	603	020	
		10	1923	828	030	—	597	023	
		1	1948	467	051	—	544	022	
		2	—	—	087	—	584	031	
		3	—	—	138	—	596	040	
		4	—	—	152	—	568	038	
		5	—	—	213	—	607	044	
		6	—	—	327	—	602	030	
		7	—	—	320	—	583	021	
		8	—	—	497	—	592	014	485
JMC RH 1911 April 7, 1930		15	1923	859	020	—	449	012	
		1	1948	498	049	—	519	015	
		2	—	—	090	—	549	015	

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α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
590	402	—	680	—		
509	374	—	746	—		758+
502	316	325	627	647	7.86, 7.94	
530	383	—	705	—		664+
565	495		876	—		
560	203	216	363	387	6.70, 6.77	
550	390	444	710	817	7.62, 8.31	
555	451	—	830	—		
580	337	—	580	—		451 ✓
587	350	—	598	—		420+
601	430	446	715	741	8.14, 8.20	
607	381	408	630	675	7.86, 8.05	
520	364	399	701	767	8.11, 8.23	
516	225	219	436	425	6.97, 6.93	
547	373	378	683	693	8.07, 8.10	
534	269	—	505	—		642 ✓
554	472	—	850	—		
583	243	—	417	—		426+
574	7	—	12	—		
522	29	—	56	—		
556	56	—	101	—		
556	98	—	176	—		
525	114	—	217	—		
563	169	—	301	—		
572	297	—	520	—		
562	299	—	533	—		
578	483	—	834	—		
437	8	—	18	—		
504	34	—	68	—		
534	75	—	141	—		

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RH1911

Hour	Class	Star	y	x	Dyll	Dyll	α	Dδ	Note
		3	—	—	139	—	555	018	
		4	—	—	132	—	525	020	
		5	—	—	208	—	560	020	
		6	—	—	298	—	570	018	
		7	—	—	317	—	562	019	
		8	—	—	440	—	579	019	
23.6	f	137	2361	580	320	345	520	028	
	fp	101	2365	728	239	—	530	025	
	f	138	2375	750	255	265	500	025	
	fp	102	2370	775	341	—	553	023	
	fp	103	2370	813	355	—	542	022	
	f	139	2360	1290	469	460	582	029	
23.8	f	140	2388	500	170	160	505	030	
	fp	104	2390	572	340	—	485	030	
	fp	105	2391	850	418	—	520	025	
	f	141	2381	851	380	381	501	028	
	fp	106	2385	1062	415	—	508	022	
24.0	f	142	2400	590	398	403	460	025	
	f	143	2410	779	378	380	475	030	
	f	144	2400	1110	352	377	508	031	
	f	145	2414	1260	283	300	491	031	
24.2	f	146	2421	442	380	383	449	031	
	fp	107	2430	1080	230	—	490	031	
	fp	108	2429	1130	340	—	478	035	
	f	147	2422	1180	282	272	490	038	
	fp	109	2431	1272	362	—	491	040	
24.4	fp	110	2452	529	323	—	430	032	
	fp	111	2453	775	325	—	438	038	
	fp	112	2441	990	350	—	439	035	
	f	148	2451	1052	151	149	430	030	

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1930phae.proj..12730

R.A. Obs	Defl. Obs	Defl. Obs	Red. Defl	Red. Defl	Mag	L. No
537	121	—	223	—		
505	112	—	222	—		
540	188	—	349	—		
552	280	—	507	—		
543	298	—	551	—		
560	421	—	752	—		
502	302	317	601	630	7.55, 7.67	
505	214	—	423	—		606
525	230	240	418	457	6.80, 6.97	
530	318	—	600	—		587
520	333	—	641	—		570
553	440	431	797	780	8.28, 8.22	
475	140	130	297	274	6.30, 6.17	
455	310	—	682	—		679
495	393	—	791	—		
473	352	353	742	745	8.08, 8.09	
486	393	—	807	—		
435	373	378	853	857	off curve	
445	318	350	716	788	7.98, 8.24	
477	321	346	670	722	7.82, 8.02	
460	252	269	548	586	7.33, 7.49	
418	349	352	836	838	off curve	
459	199	—	434	—		479 +
443	305	—	690	—		45 +
452	244	234	541	518	7.32, 7.22	
451	322	—	712	—		
398	291	—	732	—		681 +
400	287	—	720	—		588
404	315	—	780	—		519 +
400	121	119	302	298	6.32, 6.29	

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Fmc RH 1911 Apr. 7, 1930

Sup	class	star	y	x	Dyf	Dyf	ce	Dk
24.4	f	149	2440	1069	148	120	388	032
	f	150	2460	600	150	150	298	038

Voltage dropping

2 gr. - CH 1911

April 7, 1930 Voltage of battery now 510

24.6	f	151	2461	602	282	287	587	031
	f	152	2461	662	227	238	607	030
24.8	p	113	2491	486	437	—	589	038
	f	153	2480	514	488	513	597	040
	f	154	2480	537	253	272	590	037
	f	155	2488	677	501	505	622	037
	f	156	2480	740	378	391	629	036
	p	114	2476	903	460	—	612	038
	p	115	2487	918	230	—	643	037
25.0	f	157	2501	483	162	180	585	038
	f	158	2503	669	413	430	601	037
	p	116	2503	973	463	—	630	036
	f	159	2513	1113	454	479	653	033
25.2	f	160	2520	571	519	517	592	037
	p	117	2527	578	108	—	599	032
	p	118	2517	607	417	—	596	039
	f	161	2527	693	468	484	572	030
25.4	p	119	2549	638	509	—	591	034
	p	120	2550	667	513	—	596	033
	f	162	2550	770	452	472	620	052
	f	163	2550	801	507	554	648	057
	f	164	2551	884	391	381	640	049
	f	165	2539	1033	502	501	662	047
	p	121	2539	1099	509	—	650	053
	p	122	2547	1118	578	—	663	053

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Cl-Dk	Dgfl-Dk	Dgfl-Dk	Red Dgfl	Red Dgfl	May	L. No
356	86	88	242	248	6.01, 6.03	
250	112	112	450	450	6.94, 6.94	
556	251	256	462	462	6.95, 7.00	
577	197	208	942	961	6.49, 6.57	
551	399	—	723	—		683+
557	448	473	806	850	8.30, off curve	
543	216	235	397	432	6.72, 6.87	
585	564	568	964	966	off curve	
587	342	355	582	605	7.48, 7.57	
574	422	—	734	—		541 ✓
506	193	—	381	—		536+
547	124	142	227	260	5.93, 6.11	
564	376	393	667	696	7.80, 7.91	
594	427	—	719	—		523+
620	421	446	679	719	7.85, 7.99	
555	482	480	865	864	off curve	
567	76	—	134	—		
563	384	—	681	—		647+
542	438	454	810	839	8.31, off curve	
557	475	—	855	—		632+
563	480	—	854	—		622+
568	400	420	703	739	7.93, 8.06	
591	450	497	761	840	8.15, off curve	
591	342	332	580	563	7.47, 7.41	
615	455	454	740	739	8.07, 8.06	
597	456	—	764	—		509+
610	525	—	861	—		

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1930phae.proj.12730

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Hyp - RH 1911 - April 7, 1921

Mag	Class	Star	y	x	Dec	Dec	cc	dk	Volts
25.6	p	123	2560	1086	398	—	969	048	
25.8	f	166	2587	706	491	528	621	049	
26.0	f	167	2610	869	291	319	657	054	
26.2	p	124	2616	961	467	—	649	047	
		10	1929	859	046	—	653	041	
		1	1948	498	070	—	600	033	
		2	—	—	109	—	633	037	
		3	—	—	053	—	647	038	
		4	—	—	160	—	622	040	
		5	—	—	243	—	657	048	
		6	—	—	362	—	677	048	
		7	—	—	373	—	657	052	
		8	—	—	557	—	672	053	705

Plate Finished

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L, NO.
315	350	—	112	—		498
574	444	481	771	817	8.19, 8.32	
603	237	265	391	438	6.70, 6.89	
602	420	—	697	—		534
608	05	—	8	—		
567	37	—	65	—		
596	72	—	121	—		
609	115	—	188	—		
582	120	—	203	—		
609	195	—	319	—		
629	314	—	499	—		
605	321	—	530	—		
619	604	—	814	—		

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1930phae.proj.12730

MKD RH 1922 April 8, 1930

Strip	Class	Star	y	x	Defl	Def	Cl	Dk
		18	1976	708	010	—	925	0
not a good plate - hazy! Taken on a cloudy night?		1	1965	343	093	—	915	0
		2	—	—	174	—	890	0
		3	—	—	270	—	908	0
		4	—	—	330	—	919	0
		5	—	—	490	—	910	0
		6	—	—	645	—	928	0
		7	—	—	854	—	925	0
		8	—	—	860	—	935	0
14.6	f	1	1470	741	840	825	910	010
14.8	fp	1	1447	649	379	—	920	018
15.0	f	2	1509	561	580	590	940	036
	f	3	1510	678	765	760	920	040
15.4	f	4	1556	778	720	730	940	050
15.6	f	5	1560	962	240	245	900	030
15.8	fp	v	1590	642	720	—	908	030
	f	6	1580	708	640	665	920	032
	f	7	1580	910	450	440	925	040
16.0	f	8	1603	392	300	300	938	040
	f	9	1600	783	350	353	914	041
	f	10	1600	843	480	480	917	040
	fp	3	1598	913	565	—	922	045
		18	1976	708	056	—	933	040
		1	1965	343	150	—	940	038
		2	—	—	220	—	925	030
		3	—	—	320	—	920	035
		4	—	—	359	—	940	028
		5	—	—	475	—	920	025
		6	—	—	700	—	900	030
		7	—	—	825	—	938	010
		8	—	—	848	—	923	005

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	R & Defl	Rad Defl	L. No	Mag.
925	10	—	11	—		
915	93	—	102	—		
891	174	—	195	—		
908	270	—	297	—		
919	330	—	359	—		
910	490	—	538	—		
928	645	—	694	—		
925	854	—	923	—		
935	860	—	918	—		
900	830	815	921	905	7.43, 7.41	7.43, 7.41
912	361	—	396	—	1214+	
904	544	554	602	612		6.73, 6.77
880	725	720	826	819		7.27, 7.25
890	670	680	763	765	7.13, 7.16	7.13, 7.16
870	210	215	241	247 +67	5.49, 5.50	5.49, 5.50
878	690	—	784	—	1208	
888	608	633	685	707		6.98, 7.04
885	410	400	463	452		6.31, 6.28
898	260	260	389	389		6.07, 6.07
873	309	312	355	359		5.97, 5.98
877	440	440	502	502		6.43, 6.43
877	520	—	593	—	51+	
893	16	—	18	—		
902	112	—	124	—		
895	190	—	212	—		
885	285	—	322	—		
912	331	—	363	—		
895	450	—	503	—		
870	670	—	770	—		
928	815	—	880	—		
918	843	—	917	—		

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1930phae.proj.12730

HgP - RH 1922 - April 8, 1930

Strip	Class	Star	y	x	Defl	Defl	ce	dk	Plates
		10	1976	708	032	—	578	017	505
		1	1965	343	113	—	896	023	
		2	—	—	211	—	883	023	
		3	—	—	297	—	892	027	
		4	—	—	347	—	908	033	
		5	—	—	486	—	913	037	
		6	—	—	681	—	923	043	
		7	—	—	836	—	928	051	
		8	—	—	Not able to be seen				
16.4	p	4	1699	322	417	—	921	060	
	p	11	1648	667	797	800	913	067	
16.6	p	5	1662	311	658	—	946	067	
	p	12	1657	334	785	782	940	062	
	p	6	1670	707	664	—	928	054	
	p	13	1673	943	356	357	930	057	
16.8	p	7	1680	353	801	—	927	059	
	p	14	1690	398	833	871	941	070	
	p	8	1676	588	817	—	930	067	
	p	15	1677	593	817	802	938	067	
	p	9	1690	693	570	—	918	067	
	p	16	1683	694	460	473	921	058	
	p	17	1681	857	853	848	930	067	
17.0	p	18	1701	609	678	718	941	062	
	p	10	1703	696	775	—	952	067	
	p	19	1707	773	807	812	939	072	
	p	20	1699	864	698	692	951	078	
	p	21	1709	918	810	770	960	069	
17.2	p	22	1732	678	798	788	948	067	
	p	11	1724	734	551	—	952	073	
	p	23	1717	793	569	622	942	073	

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Cl Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
861	15	—	77	—		
873	90	—	103	—		
861	188	—	218	—		
865	270	—	312	—		
875	314	—	358	—		
876	449	—	358	—		
880	638	—	726	—		
877	785	—	896	—		
		—		—		
861	657	—	763	—		1043+
846	730	733	863	865	7.50, 7.51	
879	591	—	672	—		
878	723	720	830	827	7.43, 7.42	
874	610	—	698	—		1251
873	299	300	341	344	5.87, 5.86	
868	742	—	853	—		1044+
871	763	801	875	919	7.52, 7.56	
863	750	—	869	—		1166
871	750	735	862	844	7.50, 7.46	
851	503	—	592	—		1242
863	402	415	465	481	6.37, 6.43	
863	786	781	910	903	7.55, 8.50	
879	616	656	768	745	7.14, 7.25	
885	708	—	868	—		1246
867	735	740	848	855	7.46, 7.48	
873	620	614	708	702	7.17, 7.15	
891	741	701	832	786	7.43, 7.34	
881	731	721	828	818	7.43, 7.41	
879	478	—	545	—		1279
869	496	549	571	632	6.72, 6.93	

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H.P. – R.H. 1922 – April 8, 1936

Strip	Class	Star	γ	δ_6	Diff	Diff	α	δ_k Tilt
	p	12	1729	840	292	—	941	070
		24	1728	932	852	831	943	083
17.4		25	1750	1072	743	723	935	058
17.6		26	1758	653	490	481	933	062
17.8	p	13	1780	518	693	—	949	072
18.0		27	1810	397	537	563	952	071
		28	1803	410	573	544	953	063
		29	1799	641	739	670	943	061
	p	14	1801	802	691	—	948	057
		30	1811	838	700	713	937	053
18.2	p	31	1827	682	765	768	917	053
		32	1820	1149	850	820	913	047
18.4	p	15	1842	613	703	—	917	044
	p	16	1850	1088	482	—	923	047
18.6	p	17	1867	185	782	—	944	051
	p	18	1861	1226	757	—	928	052
18.8		33	1883	653	817	845	925	046
		34	1894	857	523	530	924	042
19.0		35	1912	479	514	518	942	051
		36	1903	809	786	782	928	047
19.2		37	1932	168	527	521	930	044
		38	1929	843	740	693	923	047
19.4		39	1940	217	472	482	919	039
		40	1941	298	698	681	919	038
		41	1936	353	612	660	911	033
	p	19	1954	954	400	—	910	036
	p	20	1950	1218	292	—	910	033
	p	21	1950	1162	442	—	906	038
		rp	1976	708	050	—	910	040
		1	1965	343	140	—	923	041

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1930phae.proj.12730

a-Dk	Deff Dk	Deff Dk	Red Deff	Red Deff	Mag	L. No
871	222	—	254	—		56
860	769	748	894	870	7.54, 7.50	
877	685	665	780	757	7.33, 7.28	
871	428	419	492	481	6.48, 6.43	
877	621	—	708	—		1109
881	466	492	530	556	6.60, 6.67	
890	510	481	573	540	6.73, 6.63	
882	678	609	770	691	7.30, 7.11	
891	634	—	710	—		62
884	647	660	733	746	7.22, 7.25	
864	712	710	825	822	7.93, 7.92	
866	803	783	925	903	7.58, 7.56	
873	659	—	755	—		1171
876	435	—	495	—		1834
893	731	—	820	—		926+
876	705	—	804	—		206+
879	771	799	875	906	7.52, 7.56	
882	481	488	546	554	6.64, 6.67	
891	463	467	520	525	6.57, 6.59	
881	739	735	838	835	7.43, 7.44	
886	483	477	545	538	6.63, 6.61	
876	693	646	790	736	7.35, 7.22	
880	433	443	491	503	6.47, 6.52	
881	660	643	750	730	7.26, 7.21	
878	579	627	659	715	7.01, 7.17	
874	364	—	416	—		215
877	259	—	295	—		239+
868	404	—	465	—		
870	10	—	11	—		
882	99	—	112	—		

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1930phae.proj.12730

3 yr – RH 1922 – April 8, 1930

Strip	Class	Star	Y	X	Dyl	Dyl	cc	Dk	Falto
		2	—	—	222	—	917	043	
		3	—	—	317	—	922	043	
		4	—	—	361	—	935	046	
		5	—	—	473	—	925	050	
		6	—	—	683	—	916	049	
		7	—	—	820	—	921	045	
		8	—	—	Not seen		—		000
	MKD		RH	1922, April 9,		1930			502
		13	1976	710	020	—	857	0	
		1	1965	348	155	—	867	0	
		2	—	—	200	—	860	0	
		3	—	—	294	—	857	0	
		4	—	—	415	—	880	0	
		5	—	—	510	—	870	0	
		6	—	—	690	—	885	0	
		7	—	—	810	—	897	0	
		8	—	—	848	—	883	0	
19.8	f	42	1980	200	798	790	914	008	
	f	43	1990	226	585	570	909	008	
	f	44	1980	292	568	560	900	010	
	f	45	1980	338	750	752	908	010	
	f	46	1980	420	523	518	900	010	
	f	47	1979	998	310	310	905	007	
	f	22	1980	1065	555	—	910	010	
20.0	f	48	1997	185	800	800	909	010	
	f	49	2000	363	712	688	910	010	
	f	50	2002	659	790	796	900	010	
	f	51	2010	921	557	560	890	002	
	f	52	1997	1160	732	720	890	0	
20.2	f	23	2030	1127	745	—	885	006	

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1930phae.proj.12730

a-Dk	Deff-Dk	Deff Dk	Red Deff	Red Deff	Mag	L. No
874	179	—	205	—		
879	274	—	312	—		
889	315	—	354	—		
875	423	—	483	—		
867	634	—	730	—		
886	775	—	875	—		
		—		—		
857	20	—	23	—		
867	155	—	179	—		
860	200	—	232	—		
857	294	—	342	—		
880	415	—	470	—		
870	510	—	586	—		
885	690	—	780	—		
897	810	—	902	—		
883	848	—	960			
906	790	782	870	862	7.32, 7.31	
901	547	562	640	624	6.69, 6.65	
890	558	550	626	618	6.66, 6.63	
898	740	742	825	826	7.23, 7.72	
890	513	508	575	572	6.51, 6.50	
898	303	303	337	337	5.55, 5.55	
900	545	—	605	—		240
899	790	790	880	880	7.34, 7.34	
900	702	678	780	754	7.11, 7.04	
890	780	786	875	884	7.33, 7.36	
888	555	558	625	628	6.64, 6.65	
890	732	720	822	810	7.22, 7.19	
879	739	—	840	—		264

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1930phae.proj.12730

MKD RH 1922 April 9, 1930

Strip	Class	Star	y	x	Defe	Defe	cc	Dk	Volts
20.4	f	53	2040	123	628	610	910	010	
	f	54	2040	919	310	312	888	007	
	f	15	1976	710	056	—	880	005	
		1	1965	348	210	—	897	010	
		2	—	—	230	—	880	010	
		3	—	—	335	—	885	010	
		4	—	—	444	—	900	010	
		5	—	—	510	—	890	010	
		6	—	—	700	—	905	010	
		7	—	—	830	—	914	014	
		8	—	—	858	—	906	010	
		2 SP - RH 1922 - April 9, 1930							
		10	1976	710	073	—	878	021	510
		1	1965	348	213	—	901	037	
		2	—	—	259	—	897	040	
		3	—	—	355	—	904	038	
		4	—	—	467	—	918	035	
		5	—	—	567	—	912	045	
		6	—	—	734	—	922	047	
		7	—	—	844	—	937	043	
		8	—	—	Not well				
20.6	f	55	2060	639	813	829	937	053	
	p	24	2075	1023	557	—	930	043	
20.8	f	56	2082	177	597	578	913	053	
	f	57	2091	422	827	828	939	051	
21.0	p	25	2104	086	750	—	957	056	
	f	58	2117	089	332	357	957	053	
	f	59	2118	298	633	650	942	048	
	f	60	2109	787	678	704	932	044	

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
900	618	600	686	666	6.79, 6.74	
881	303	305	344	346	5.60, 5.68	
875	51	—	58	—		
887	200	—	225	—		
870	220	—	253	—		
875	325	—	371	—		
890	434	—	486	—		
880	500	—	568	—		
895	690	—	770	—		
900	816	—	906	—		
896	848	—	945	—		
857						
869	52	—	60			
857	181	—	208			
866	219	—	256			
883	317	—	366			
867	432	—	488			
875	522	—	601			
894	687	—	785			
	801	—	896			
884	760	776	860	880	7.35, 7.41	
887	514	—	578	—		279
860	544	525	632	610	6.65, 6.47	
888	776	777	875	875	7.40, 7.40	
901	694	—	768			
904	279	304	308	336	5.30, 5.43	
894	585	602	655	674	6.14, 6.68	
888	634	660	714	742	6.84, 6.95	

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1930phae.proj.12730

α Gr – R.A. 1922 – April 9, 1931

Strip	Class	Star	Y	X	Diff	Diff	M	Date
	p	26	2100	1044	536	—	931	051
21.2	p	27	2120	1211	647	—	938	058
		61	2137	1257	517	529	950	061
21.4		62	2146	200	640	617	962	057
		63	2143	237	752	760	951	053
		64	2137	248	860	870	953	051
	p	28	2141	1081	773	—	932	051
21.6	p	29	2157	248	750	—	957	057
21.6	p	30	2163	922	850	—	953	060
		65	2164	949	834	841	951	057
21.8		66	2188	501	850	851	959	061
		67	2190	624	702	693	947	053
22.0	p	31	2212	587	674	—	953	061
		68	2206	819	828	882	968	072
	p	32	2198	861	640	—	956	063
		69	2197	1241	787	750	952	073
		70	2196	1243	842	821	951	072
22.2	p	33	2230	639	803	—	962	076
		71	2231	1020	373	373	963	083
22.8		72	2280	782	817	812	973	078
		73	2289	778	336	320	951	063
		74	2278	871	141	739	947	067
		75	2290	1167	517	521	963	073
23.0		76	2311	272	771	783	973	074
		77	2296	366	851	817	975	082
	p	34	2300	390	857	—	977	082
		78	2300	1110	583	581	952	086
23.2		79	2328	498	879	903	963	077
	p	35	2321	544	680	—	960	072
23.4		80	2350	629	642	636	937	057

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No.
880	485	—	550	—		294
880	589	—	669	—		297
889	456	468	514	526	6.10, 6.17	
905	583	560	645	620	6.58, 6.51	
898	699	707	778	787	7.06, 7.09	
902	809	819	896	907	7.47, 7.51	
881	722	—	819	—		
900	693	—	769	—		805
893	790	—	885	—		338
894	777	784	865	875	7.37, 7.40	
898	789	790	876	880	7.40, 7.42	
894	649	640	725	716	6.88, 6.83	
892	613	—	686	—		627
896	756	810	845	902	7.29, 7.50	
893	577	—	646	—		376
879	714	677	812	770	7.18, 7.03	
879	770	749	876	853	7.39, 7.33	
886	727	—	820	—		
880	290	290	330	330	5.40, 5.40	
895	739	734	825	820	7.22, 7.20	
888	273	257	307	289	5.29, 5.19	
880	680	642	773	764	7.05, 7.02	
890	444	448	498	504	6.05, 6.08	
899	697	709	795	788	7.06, 7.09	
893	769	735	860	825	7.35, 7.23	
895	775	—	865	—		713
872	503	501	575	574	6.32, 6.31	
886	802	826	905	931	7.51, [illegible]	
888	608	—	685	—		625
880	585	579	665	658	6.67, 6.63	

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1930phae.proj.12730

2 gp - R.A. 1922 - April 9, 1930

Step	Class	Star	y	x	Δηcos	Δη	α	Δα	Date
23.6		81	2360	177	761	723	953	056	
		82	2370	251	870	863	958	062	
		83	2366	959	610	578	958	067	
		84	2354	478	772	757	962	073	
		36	2370	493	820	—	953	066	
23.8		85	2390	383	532	556	960	068	
		86	2380	780	450	451	957	067	
24.0		87	2410	280	706	723	967	073	
		88	2403	467	890	884	967	078	
		37	2402	538	723		970	078	
		89	2401	816	863	879	974	081	
		38	2405	892	877	—	983	087	
		39	2403	993	837	—	980	078	
24.2		90	2417	651	772	753	957	067	
24.4		91	2436	281	792	790	957	067	
		92	2441	559	786	770	966	067	
		93	2448	646	600	590	962	067	
		40	2439	1006	557	—	949	067	
24.6		94	2468	931	680	653	967	072	
24.8		95	2479	576	869	860	973	071	
		96	2471	1098	828	810	960	078	
		10	1976	710	136	—	949	088	
		1	1965	348	281	—	970	100	
		2	—	—	310	—	951	087	
		3	—	—	400	—	951	084	
		4	—	—	514	—	960	083	
		5	—	—	572	—	954	082	
		6	—	—	765	—	920	083	
		7	—	—	895	—	973	089	+15
		8	—	—	Zobrala				

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
897	705	667	785	745	7.08, 6.95	
896	808	801	902	895	7.50, 7.47	
891	543	511	609	574	6.47, 6.32	
889	699	684	785	769	7.08, 7.02	
887	754	—	849	—		642
892	464	488	520	548	6.12, 6.21	
890	383	384	430	431	5.83, 5.83	
894	633	650	707	726	7.81, 7.87	
889	812	806	912	906	7.52, 7.51	
892	645	—	724	—		606
893	782	798	875	895	7.40, 7.47	
896	790	—	880	—		451
902	759	—	841	—		420
890	705	686	790	772	7.46, 7.40	
890	725	723	815	811	7.19, 7.18	
899	719	703	800	781	7.14, 7.08	
895	533	523	595	585	6.42, 6.37	
882	490	—	556	—		426
895	608	581	680	650	6.71, 6.61	
902	798	789	885	875	7.43, 7.40	
882	750	732	850	830	7.31, 7.22	
861	48	—	56	—		
870	181	—	208	—		
864	223	—	258	—		
867	316	—	364	—		
877	431	—	491	—		
872	490	—	562	—		
837	682	—	814	—		
884	806	—	914	—		
—	—	—		—		

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1930phae.proj.12730

MKD RH 1922 April 10, 1930

Strip	Class	Star	y	x	Dec'l	Dec'l	Cl	Dk	Plate
		13	1976	712	0	—	860	0	
		1	1965	350	080	—	880	0	
		2	—	—	160	—	887	0	
		3	—	—	255	—	869	0	
		4	—	—	305	—	900	0	
		5	—	—	425	—	890	0	
		6	—	—	760	—	895	0	
		7	—	—	810	—	918	0	
		8	—	—	825	—	900	0	
25.0	f	97	2500	424	780	778	920	0	
	fp	41	2500	888	560	—	920	0	
25.4	fp	42	2549	372	190	—	922	0	
	f	98	2552	376	650	680	908	0	
	fp	43	2540	720	360	—	924	0	
25.6	f	99	2559	783	535	530	930	0	
25.8	f	100	2590	963	760	750	918	0	
26.2	f	101	2620	608	320	315	920	0	
26.4	f	102	2640	762	650	640	918	0	
26.6	f	103	2670	611	770	780	930	010	
		15	1976	712	040	—	930	020	
		1	1965	350	115	—	930	010	
		2	—	—	190	—	910	010	
		3	—	—	270	—	890	008	
		4	—	—	334	—	925	005	
		5	—	—	460	—	910	010	
		6	—	—	660	—	750	0	
		7	—	—	820	—	930	006	
		8	—	—	840	—	935	005	

Plate Finished

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1930phae.proj.12730

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	May	L. No
860	0	—	0	—		
880	80	—	91	—		
887	160	—	180	—		
869	255	—	293	—		
900	305	—	339	—		
890	425	—	446	—		
895	760	—	850	—		
918	810	—	880	—		
900	825	—	915	—		
920	780	778	846	845	7.14, 7.14	
920	560	—	610	—		479 +
922	190	—	206	—		660 +
908	650	680	715	748	6.94, 6.99	
924	360	—	390	—		536 +
930	535	530	575	570	6.66, 6.65	
918	760	750	826	816	7.12, 7.10	
920	320	315	348	342	5.97, 5.95	
918	650	640	708	696	6.92, 6.91	
920	760	770	825	835	7.11, 7.12	
910	20	—	22	—		
920	105	—	114	—		
900	180	—	200	—		
882	262	—	298	—		
920	329	—	358	—		
900	450	—	500	—		
750	660	—	880	—		
924	814	—	880	—		
930	835	—	897	—		

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1930phae.proj.12730

Fmc RH 1923 Apr. 10, 1930

Strip	Class	Star	y	x	Δyfl	Δxfl	Cl	Dk	Notes
		15	1930	800	000	—	897	-0	
		1	1940	437	125	—	909	-0	
		2	—	—	265	—	920	-0	
		3	—	—	360	—	928	-0	
		4	—	—	400	—	910	-0	
		5	—	—	495	—	925	-0	
		6	—	—	645	—	912	-0	
		7	—	—	675	—	913	-0	
		8	—	—	860	—	902	-0	
14.2	f	1	1420	782	368	370	959	-0	
14.4	fp	1	1451	712	487	—	940	-0	
	fp	2	1441	759	830	—	955	-0	
14.8	f	2	1489	610	580	580	940	-0	
	fp	3	1480	631	800	—	954	-0	
15.2	fp	4	1520	932	778	—	951	-0	
15.4	fp	5	1550	712	748	—	950	-0	
	f	3	1541	968	779	803	960	-0	
	fp	6	1540	983	670	—	960	-0	
15.8	f	4	1580	460	665	675	949	-0	
	f	5	1599	745	560	555	945	-0	
16.0	fp	7	1611	396	762	—	945	-0	
	f	6	1609	1109	790	810	969	-0	
16.2	fp	8	1638	663	800	—	954	001	
	f	7	1630	740	729	760	960	001	
	fp	9	1622	780	722	—	962	000	
	f	8	1691	1110	673	660	960	002	
16.4	fp	10	1640	388	675	—	955	008	
	fp	11	1645	770	679	—	965	008	
	f	9	1652	1007	457	452	959	004	
16.6	f	10	1661	600	430	410	959	009	

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1930phae.proj.12730

cl-Dk	Defl-Dk	Diff-Dk	Red Defl	Red Defl	Mag	L.N.O
897	0	—	0	—		
909	125	—	137	—		
920	265	—	288	—		
928	360	—	388	—		
910	400	—	440	—		
925	495	—	535	—		
912	645	—	707	—		
913	675	—	740	—		
902	860	—	954	—		
959	368	370	384	386	5.73, 5.74	
940	487	—	519	—		1214+
955	830	—	870	—		1235+
940	580	580	616	616	6.67, 6.67	
954	800	—	840	—		1104+
951	778	—	818	—		23+
950	748	—	786	—		1208+
960	799	803	832	835	7.59, 7.59	
960	670	—	698	—		51+
949	665	675	700	710	7.02, 7.06	
945	560	555	593	587	6.60, 6.57	
945	762	—	805	—		1043+
969	790	810	815	835	7.51, 7.60	
953	799	—	839	—		1166✓
959	728	759	760	790	7.26, 7.41	
962	722	—	750	—		1251✓
958	671	658	700	686	7.02, 6.97	
947	667	—	705	—		
957	671	—	701	—		1232+
955	453	448	473	470	6.11, 6.10	
950	421	401	444	423	6.01, 6.92	

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1930phae.proj.12730

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FMC . RH 1923 Apr. 10, 1930

Strip	class	star	y	x	Diff	Diff	d	Dh	Volt
16.6	p	12	1677	918	921	—	959	009	
16.8	p	11	1693	761	613	680	958	009	
	p	13	1680	811	618	—	960	010	
	p	14	1689	1254	459	—	960	010	
		10	1930	800	032	—	930	009	
		1	1940	437	160	—	921	010	
		2	—	—	289	—	938	005	
		3	—	—	380	—	941	001	
		4	—	—	430	—	928	002	
		5	—	—	520	—	931	001	
		6	—	—	690	—	922	000	
		7	—	—	710	—	920	001	
		8	—	—	848	—	915	000	
	xgp	11	RH	1923	April 11, 1930				
		10	1930	800	013	—	887	0—	510
		1	1940	437	151	—	897	0—	
		2	—	—	267	—	910	0—	
		3	—	—	353	—	907	0—	
		4	—	—	403	—	897	0—	
		5	—	—	518	—	913	0—	
		6	—	—	642	—	911	0—	
		7	—	—	783	—	913	0	
		8	—	—	848	—	913	0—	
17.0	p	15	1710	1034	819	—	940	007	
17.2	p	12	1716	892	841	873	942	003	
	p	13	1720	1118	732	760	933	000	
17.4	p	14	1748	279	652	637	916	000	
	p	16	1742	599	748	—	937	002	
	p	15	1757	618	252	257	940	000	
	p	17	1751	883	693	—	942	002	

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1930phae.proj.12730

cl-Dk	Deff-Dk	Diff-Dk	Red Deff	Red Deff	Mag	L. No
950	312	—	328	—		56
949	604	621	635	655	6.76, 6.83	
950	608	—	640	—		1272+
950	449	—	473	—		
921	23	—	25	—		
911	150	—	165	—		
933	284	—	304	—		
940	379	—	404	—		
926	428	—	463	—		
930	524	—	564	—		
922	690	—	750	—		
919	709	—	771	—		
915	848	—	925	—		
887	13	—	14	—		
897	151	—	168	—		
910	267	—	294	—		
907	353	—	389	—		
897	403	—	447	—		
913	518	—	568	—		
911	642	—	705	—		
913	783	—	856	—		
913	848	—	930	—		
933	812	—	870	—		118
939	868	870	924	925	8.30, 8.30	
933	732	760	785	815	7.31, 7.45	
916	652	637	710	695	6.97, 6.91	
935	746	—	796	—		1109
940	252	257	268	273	5.07, 5.10	
940	691	—	735	—		62

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1930phae.proj.12730

Ago — R.A. 1923 April 10, 1920

Strip	Class	Star	y	x	Dyl	Dyl	cc	Dk	Wts
		16	1779	1023	750	781	943	003	
		18	1750	1059	801	—	943	006	
17.6		17	1768	519	717	755	937	002	
		18	1762	918	757	757	938	007	
17.8		19	1781	1173	568	—	920	007	
		20	1787	1310	780	—	930	007	
18.0		19	1811	370	367	390	917	006	
		21	1802	692	747	—	927	017	
18.2		20	1812	732	858	837	932	008	
18.4		22	1850	273	774	—	911	012	
		21	1840	572	803	833	913	011	
		22	1852	767	650	654	930	012	
		23	1839	1329	696	708	927	009	
18.6		24	1857	890	833	786	922	012	
		23	1874	1308	922	—	919	011	
		24	1871	1351	497	—	915	008	
18.8		25	1896	1045	452	—	912	004	
19.0		25	1893	712	857	871	920	011	
		26	1899	1155	757	743	927	018	
		27	1898	1191	598	627	918	017	
19.2		28	1928	1097	601	606	919	017	
		26	1914	1152	632	—	918	013	
		27	1920	1293	824	—	920	017	
		29	1927	1302	315	329	926	019	
19.4		30	1937	603	658	748	900	016	
		10	1930	800	046	—	881	011	
		1	1940	437	173	—	904	013	
		2	—	—	290	—	913	012	
		3	—	—	367	—	908	008	
		4	—	—	418	—	897	010	

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1930phae.proj.12750

α-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
940	747	778	795	828	7.37, 7.52	
937	795	—	850	—		
935	715	748	765	800	7.21, 7.38	
931	750	750	805	805	7.41, 7.41	
913	561	—	615	—		183+
927	773	—	833	—		206+
911	361	384	396	421	5.70, 5.82	
910	730	—	800	—		1141 ~~1126~~
924	850	829	920	899	8.27, 8.02	
899	762	—	846	—		926+
902	792	822	880	912	7.88, 8.20	
918	638	642	695	699	6.91, 6.93	
918	687	699	749	761	7.13, 7.21	
910	821	774	901	850	8.05, 7.69	
908	311	—	342	—		239+
907	489	—	539	—		242+
908	448	—	494	—		205
909	846	860	930	945	8.29, diffuse	
909	739	725	812	797	7.43, 7.37	
901	581	610	645	676	6.68, 6.83	
902	584	583	646	645	6.69, 6.68	
905	619	—	684	—		240
903	807	—	895	—		225+
907	296	304	326	334	5.37, 5.42	
884	642	732	726	828	7.03, 7.51	
870	35	—	40	—		
891	160	—	179	—		
901	278	—	308	—		
900	359	—	398	—		
887	408	—	460	—		

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Hyp - R # 1923 April 10, 1923

Strip	Class	Star	y	x	Dye	Dyfe	cc	dk	Note
		5	—	—	526		899	010	
		6	—	—	686	—	898	010	
		7	—	—	709	—	897	016	
		8	—	—	827	—	898	012	500
	Hyp	—	R # 1923 -	April	12, 1923				
		10	1930	782	093	—	893	033	500
		1	1940	419	259	—	907	031	
		2	—	—	373	—	923	042	
		3	—	—	468	—	932	052	
		4	—	—	511	—	917	047	
		5	—	—	613	—	922	049	
		6	—	—	706	—	922	049	
		7	—	—	734	—	925	053	
		8	—	—	872	—	937	057	
19.6	p	28	1969	642	832	—	948	063	
		31	1958	1197	668	708	957	054	
	p	29	1960	1199	866	—	947	053	
19.8		32	1982	734	850	858	952	058	
20.0		33	2005	455	483	478	947	052	
	p	30	1998	1069	853	—	953	058	
	p	31	2010	1100	662	—	955	060	
		34	2002	1250	747	758	960	060	
20.2		35	2036	452	692	693	943	053	
		32	2033	1122	639	—	953	057	
20.4	p	36	2050	213	838	840	934	053	
		37	2040	717	832	844	948	052	
		38	2043	1010	742	773	953	053	
		39	2052	1147	696	683	953	053	
		40	2047	1188	831	872	948	053	
	p	33	2145	1290	710	—	947	053	

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cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No.
889	516	—	582	—		
888	676	—	762	—		
881	693	—	785	—		
886	815	—	920	—		
860	60	—	70	—		
876	228	—	260	—		
881	331	—	375	—		
880	416	—	474	—		
870	464	—	533	—		
873	564	—	645	—		
873	657	—	754	—		
872	681	—	781	—		
880	815	—	925	—		
885	769	—	869	—		2r+
903	614	654	680	724	6.70, 6.94	
894	813	—	910	—		264+
894	792	800	886	895	7.89, 8.00	
895	431	426	481	476	5.70, 5.68	
895	795	—	885	—		274
895	602	—	672	—		279
900	687	698	764	775	7.14, 7.20	
890	639	640	717	719	6.88, 6.89	
896	582	—	648			294
881	785	787	890	895	7.97, 8.00	
896	780	792	870	884	7.78, 7.90	
900	689	720	765	800	7.15, 7.33	
900	643	630	715	700	6.87, 6.80	
895	778	819	868	914	7.74, 8.23	
894	657	—	735	—		297+

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Mgr - R.A. 1923 April 12, 1920

Strip	Class	Star	y	x	Dyff	Dxff	cc	dk	Rem
20.6	f	41	2068	977	471	478	931	052	
	f	42	2060	953	518	602	943	051	
	f	43	2060	1037	834	802	953	058	
	f	44	2062	1082	666	687	957	058	
	f	45	2060	1172	861	877	947	057	
20.8	p	34	2074	1160	797	—	947	054	
	f	46	2090	1222	771	803	950	054	
21.0	p	35	2106	1003	783	—	940	054	
	f	47	2107	1018	720	783	947	053	
	f	48	2100	1073	803	800	948	060	
	f	49	2100	1153	599	624	948	057	
	f	50	2108	1169	871	883	939	057	
	f	51	2109	1212	652	659	934	056	
21.2	f	52	2113	528	798	789	937	061	
	p	36	2126	528	848	—	937	056	
	f	53	2130	891	627	644	950	057	
21.4	p	37	2142	322	809	—	927	058	
	p	38	2134	331	698	—	932	056	
	f	54	2158	513	658	660	941	061	
	f	55	2140	561	812	859	932	052	
	p	39	2140	946	613	—	943	051	
	f	56	2157	1338	570	585	942	053	
21.6	p	40	2172	302	800	—	920	051	
	p	41	2172	670	581	—	928	052	
	f	57	2160	719	860	858	926	051	
22.0	p	42	2206	391	828	—	919	047	
	p	43	2204	441	837	—	937	048	
	f	58	2210	1247	809	812	929	050	
22.2	f	59	2230	934	751	823	909	047	
	f	60	2218	690	911	812	926	052	

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1930phae.proj.12750

Ce-Dk	Dgl-Dk	Dgl-Dk	Red Dgl	Red Dgl	Mag	L NO
879	719	426	476	485	5.67, 5.71	
892	527	551	591	618	6.23, 6.34	
895	776	744	867	830	7.77, 7.51	
899	608	629	676	699	6.67, 6.78	
890	804	820	903	920	8.05, 8.30	
893	743	—	831	—		
896	717	749	800	835	7.35, 7.54	
886	729	—	820	—		338
894	667	730	746	815	7.04, 7.43	
888	743	740	835	833	7.54, 7.53	
886	542	570	610	642	6.33, 6.51	
882	814	826	922	936	8.31, 8.51	
881	596	603	676	684	6.67, 6.72	
876	737	728	840	830	7.57, 7.51	
881	792	—	898	—		765
893	570	584	640	654	6.49, 6.57	
869	751	—	865	—		
876	642	—	730	—		805
880	597	599	679	680	6.72, 6.73	
880	760	801	864	910	7.74, 8.18	
892	562	—	630	—		376
889	517	532	583	598	6.20, 6.26	
869	749	—	862	—		710
876	529	—	604	—		627
875	809	807	924	922	8.35, 8.33	
866	781	—	901	—		
889	789	—	887	—		748
879	759	762	864	866	7.74, 7.75	
862	704	776	816	902	7.43, 8.06	
874	859	760	981	870	[illegible], 7.79	

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1930phae.proj.12730

Zone C + 1923 — April 17, 1923

Setting	Class	Star	y	x	Dyl	Dyl	Cl	Dk	Note
	f	61	2230	830	788	793	928	053	
	f	62	2231	1038	660	653	923	052	
22.4	f	44	2240	669	823	824	934	051	
	f	63	2247	731	740	753	922	053	
	f	64	2247	837	861	850	939	056	
	f	65	2240	961	696	645	939	060	
22.6	f	66	2273	278	842	848	913	062	
	f	67	2272	282	783	787	917	057	
	p	45	2270	479	771	—	910	057	
	f	68	2262	1247	852	847	923	058	
22.8	p	46	2283	271	843	—	911	061	
	p	47	2283	637	650	—	927	063	
	f	69	2287	719	643	642	939	070	
23.0	f	70	2298	299	813	831	923	072	
23.2	f	71	2319	439	847	867	927	063	
	f	72	2328	578	695	684	925	069	
	p	48	2334	588	760	—	923	063	
	f	73	2312	1268	787	802	934	062	
23.4	f	74	2338	454	819	837	917	063	
	f	75	2348	508	759	768	906	058	
	f	76	2340	598	842	830	919	067	
	f	77	2341	763	767	780	940	072	
	p	49	2350	988	809	—	937	078	
	p	50	2341	1090	802	—	944	082	
23.6	f	78	2370	428	552	554	922	088	
	p	51	2367	629	670	—	898	089	
	f	79	2360	678	660	642	940	083	
	p	52	2370	682	798	—	857	097	
	p	53	2371	122	802	—	944	093	
	f	80	2368	778	853	848	948	087	

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1930phae.proj.12730

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L. No
875	735	740	839	844	7.56, 7.60	
871	608	601	698	689	6.79, 6.73	
883	772	—	875	—		601
869	687	705	792	806	7.31, 7.36	
883	805	796	912	901	8.20, 8.06	
879	636	585	724	667	6.93, 6.62	
851	780	786	916	924	8.22, 8.34	
860	726	730	845	851	7.60, 7.64	
853	714	—	836	—		713
875	794	789	908	904	7.56, 8.10	
850	782	—	920	—		758
864	587	—	680	—		625
869	578	572	659	657	6.59, 6.57	
851	741	759	873	893	7.82, 7.96	
864	784	804	907	930	8.11, 8.30	
856	626	615	731	718	6.97, 6.89	
860	697	—	810	—		642
872	725	740	832	848	7.53, 7.61	
854	756	774	884	905	7.90, 8.10	
848	695	713	820	840	7.96, 8.07	
852	775	763	912	897	8.20, 8.03	
868	695	708	801	816	7.37, 7.43	
859	731	—	852	—		451
862	720	—	837	—		420
834	464	466	555	557	6.06, 6.07	
809	581	—	719	—		606
854	577	559	673	653	6.66, 6.57	
790	701	—	887	—		587
848	709	—	836	—		570
861	766	786	890	914	7.97, 8.21	

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1930phae.proj.12730

2 gg- RA 1923- Apr. 12, 1930

Hour	Class	Star	y	d	Dyll	Dyll	Cc	Dk	Talk
	p	54	2372	1103	663	—	950	082	
23.8	p	55	2381	479	820	—	933	082	
	l	81	2388	1038	838	833	933	082	
24.0	l	82	2410	1106	728	733	938	081	
	l	83	2401	1186	752	752	932	078	
24.2	l	84	2429	993	498	496	932	078	
24.4	p	56	2446	432	832	—	915	078	
	l	85	2448	529	667	662	929	080	
	l	86	2448	589	611	583	931	080	
	l	87	2439	979	542	532	927	083	
	p	57	2444	984	691	—	882	080	
	p	58	2445	1037	827	—	930	074	
	p	59	2452	1147	907	—	927	077	
24.6	l	88	2463	463	637	641	922	076	
	l	89	2465	667	797	771	932	077	
24.8	l	90	2482	411	483	500	926	077	
	l	91	2490	597	794	843	922	082	
	p	60	2481	805	840	—	936	080	
	p	61	2493	821	533	—	923	082	
25.0	l	92	2500	392	829	823	918	082	
	l	93	2503	406	737	708	918	079	
	p	62	2510	507	827	—	920	077	
	l	94	2500	1040	800	817	917	076	
25.2	p	63	2520	473	389	—	913	072	
	l	95	2537	811	713	729	912	077	
	l	96	2523	959	827	831	920	078	
25.4	p	64	2543	537	858	—	910	081	
	l	97	2536	697	820	823	917	081	
25.6	l	98	2560	678	870	877	914	077	
25.8	p	65	2572	983	756	—	913	072	

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1930phae.proj.12750

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
868	581	—	670	—		426+
851	738	—	870	—		679
851	756	751	888	883	7.93, 7.91	
857	647	652	754	758	7.08, 4.10	
854	674	674	789	789	7.27, 7.27	
854	420	418	491	490	5.73, 5.72	
837	754	—	898	—		681+
849	587	582	692	685	6.74, 6.72	
851	531	503	624	592	6.40, 6.23	
844	459	449	544	532	5.99, 5.93	
802	611	—	782	—		479+
856	753	—	881	—		457+
850	830	—	976	—		
846	561	565	664	656	6.62, 6.57	
855	720	694	842	812	7.58, 7.42	
849	406	423	478	499	5.68, 5.77	
840	712	761	846	906	7.60, 8.11	
856	760	—	887	—		541
841	451	—	537	—		536+
836	747	741	893	886	7.72, 7.88	
839	658	629	786	751	7.27, 7.09	
843	750	—	889	—		660+
841	724	741	862	883	7.73, 7.88	
841	317	—	376	—		
835	636	646	762	774	7.14, 7.71	
842	749	753	891	894	7.96, 8.00	
829	777	—	936	—		632+
836	739	742	886	887	7.91, 7.92	
837	793	800	948	956	off curve	
841	684	—	814	—		498+

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1930phae.proj.12730

Agp-B # 1923- April 12, 1930

Exp	Clock	Star	x	δ	Defl	Defl	cl	Δk	Volts
26.0		99	2599	794	628	612	897	070	
		100	2610	869	710	734	917	073	
		10	1930	782	150	—	928	078	
		1	1940	719	297	—	932	074	
		2	—	—	732	—	928	078	
		3	—	—	783	—	949	077	
		4	—	—	547	—	932	077	
		5	—	—	612	—	934	078	
		6	—	—	722	—	933	077	
		7	—	—	750	—	927	073	
		8	—	—	864	—	928	072	485

Plate finished

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1930phae.proj.12750

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
827	558	542	676	655	6.66, 6.58	
844	637	661	754	782	7.09, 7.23	
850	72	—	85	—		
858	223	—	260	—		
850	354	—	418	—		
872	406	—	465	—		
855	470	—	551	—		
856	534	—	625	—		
856	645	—	753	—		
854	677	—	793	—		
856	792		927	—		

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1930phae.proj.12730

Zgp – R H 1897 – April 14, 1920

Strip	Class	Star	y	x	Dpfe	Dpfe	Cl	Dk	Notes
		10	2191	779	052	—	877	017	510
		1	1743	669	208	—	878	022	
		2	—	—	290	—	882	022	
		3	—	—	338	—	898	021	
		4	—	—	370		882	027	
		5	—	—	432	—	912	023	
		6	—	—	536		909	032	
		7	—	—	580	—	918	027	
		8	—	—	798	—	927	028	
15.0	f	1	1509	636	750	772	892	039	
15.2	p	1	1530	729	798	—	894	028	
15.4	p	2	1540	457	546	—	873	028	
	f	2	1551	642	667	653	898	031	
	f	3	1550	703	660	657	893	033	
15.6	p	3	1578	590	747	—	891	029	
	p	4	1570	671	748	—	903	030	
	p	5	1562	709	653	—	901	028	
15.8	p	6	1579	380	597	—	887	033	
	f	4	1585	430	802	788	897	037	
	p	7	1580	626	822	—	899	038	
	f	5	1589	751	713	710	897	037	
	f	6	1578	964	620	617	913	041	
16.0	p	8	1601	562	718	—	912	041	
	f	7	1609	802	827	833	907	042	
	p	9	1608	898	752	—	916	041	
16.2	p	10	1620	477	802	—	902	043	
	p	11	1617	943	542	—	912	043	
	p	12	1620	971	647	—	917	042	
16.4	p	13	1643	334	709	—	907	047	
	f	8	1652	798	717	704	917	047	

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1930phae.proj.12730

a - Dk.	Defl - Dk.	Defl - Dk.	Reduced	Reduced	Magn.	L. No.
860	35	—	41	—		
856	186	—	217	—		
860	268	—	312	—		
877	317	—	361	—		
855	343	—	401	—		
889	409	—	460	—		
874	506	—	577	—		
891	553	—	619	—		
899	770	—	855	—		
853	711	733	834	859	8.29, 8.40	
866	770	—	890	—		
845	548	—	650	—		844+
867	636	622	735	717	7.85, 7.78	
860	627	624	730	725	7.84, 7.82	
862	718	—	834	—		892+
873	718	—	824	—		
873	625	—	715	—		926+
854	564	—	660	—		809+
860	765	751	890	874	off curve, off curve	
861	784	—	910	—		
860	676	673	786	783	8.04, 8.04	
872	579	576	665	662	7.57, 7.55	
871	677	—	777	—		880+
865	785	791	905	915	off curve, off curve	
875	711	—	813	—		~~1600~~
859	759	—	884	—		840+
869	499	—	575	—		1030+
875	605	—	690	—		1043+
860	662	—	770	—		
870	670	657	770	756	8.00, 7.94	

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Zgp – RH 1897 – April 14, 1930

Strip	Class	Star	ry	dx	Dyff	Dyff	cc	dk Volts
16.6	p	14	1660	673	702	—	913	047
	p	15	1662	941	681	—	918	047
	p	9	1672	942	731	721	913	049
	p	16	1660	1022	808	—	917	050
16.8	p	17	1697	411	693	—	917	051
	p	10	1680	669	667	672	922	057
	p	11	1686	783	739	726	918	058
	p	18	1681	1097	718	—	937	057
17.0	p	19	1697	297	792	—	927	054
	p	20	1712	457	533	—	912	053
	p	12	1700	607	842	843	912	053
17.2	p	13	1721	730	808	867	918	058
	p	14	1730	828	641	643	913	053
	p	15	1720	997	841	823	926	053
17.4	p	21	1748	728	753	—	918	053
17.6	p	22	1760	383	800	—	902	043
	p	23	1761	963	812	—	918	043
	p	16	1760	1024	653	657	908	043
17.8	p	17	1790	400	822	800	922	053
	p	24	1790	406	732	—	906	051
18.0	p	18	1800	477	782	772	923	052
	p	25	1807	748	799	—	920	050
	p	19	1808	983	767	760	931	052
	p	26	1810	1164	673	—	911	051
18.2	p	20	1820	211	799	792	928	053
	p	21	1822	244	831	842	928	057
	p	22	1823	418	621	607	918	050
	p	27	1819	669	787	—	911	050
	p	23	1830	747	540	530	913	053
	p	24	1813	1191	817	814	912	049

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1930phae.proj.12730

cc-Dk	Diff-Dk	Diff-Dk	Red Diff	Red Diff	Mag	L. No
866	655	—	755	—		907 ✓
871	634	—	726	—		1044 +
864	682	678	790	785	8.08, 8.06	
867	758	—	875	—		
866	642	—	740	—		792 +
865	610	615	705	710	7.74, 7.76	
860	675	668	785	777	8.06, 8.02	
880	721	—	820	—		1110 +
873	738	—	846	—		758 +
859	480	—	560	—		805 ✓
859	789	790	919	920	off curve, off curve	
860	750	809	870	940	off curve, off curve	
860	588	590	684	685	7.63, 7.64	
873	788	770	904	884	off curve, off curve	
865	700	—	810	—		948 ✓
859	757	—	881	—		764 +
875	769	—	879	—		
865	610	614	705	710	7.73, 7.76	
869	769	747	885	860	off curve, 8.12	
855	681	—	795	—		
871	730	720	838	826	8.29, 8.25	
870	749	—	860	—		975 +
879	715	708	813	810	8.20, 8.18	
860	622	—	722	—		1104 +
875	740	739	845	844	8.34 834	
871	774	785	886	900	off curve, off curve	
868	541	557	656	643	7.14, 7.49	
861	737	—	855	—		—
860	487	477	567	555	7.13, 7.08	
863	768	765	890	887	off curve, off curve	

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Hyp - R.A. 1897 - April 14, 1930

Strip	Class	Star	y	x	Dyc	Dyc	cc	Dk	Volts
8.4	f	25	1840	278	837	838	932	051	
	p	28	1838	421	692	—	908	044	
	p	29	1850	902	635	—	917	052	
	p	30	1847	1127	763	—	921	058	
18.6	p	31	1860	139	718	—	928	053	
	f	26	1855	171	709	709	920	052	
	f	27	1872	187	619	641	923	048	
	p	32	1870	519	784	—	927	052	
18.8	f	28	1880	119	823	888	940	053	
	p	33	1891	187	700	—	927	051	
	p	34	1890	369	620	—	925	053	
	f	29	1879	622	808	820	916	049	
	p	35	1873	931	822	—	918	057	
	p	36	1881	1022	732	—	930	058	
	p	37	1881	1171	778	—	917	058	
	p	38	1881	1213	768	—	913	053	
		1a	2191	779	088	—	932	054	
		1	1743	669	230	—	904	051	
		2	—	—	306	—	920	057	
		3	—	—	360	—	920	054	
		4	—	—	382	—	902	057	
		5	—	—	428	—	932	058	
		6	—	—	547	—	934	055	
		7	—	—	592	—	930	050	
		8	—	—	790	—	923	051	510

Hyp - R.A. 1897 - April 15, 1930

		1a	2191	753	057	—	928	030	520
		1	1743	643	168	—	936	033	
		2	—	—	250	—	947	038	
		3	—	—	300	—	943	040	
		4	—	—	330	—	943	038	

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1930phae.proj.12730

CC-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.No
881	786	787	892	894	off curve, off curve	
864	648	—	750	—		748 ✓
865	583	—	674	—		1109 ✓
863	705	—	815	—		1176 +
875	665	—	760	—		688 +
868	657	657	756	756	7.94, 7.93	
875	561	592	640	675	7.46, 7.62	
875	732	—	835	—		778 +
887	770	835	867	940	8.43, off curve	
876	649	—	740	—		681 +
872	567	—	650	—		713 ✓
867	759	771	875	889	off curve, off curve	
861	765	—	890	—		
872	674	—	774	—		1166 ✓
859	720	—	840	—		1201 +
860	415	—	483	—		1214 +
878	34	—	38	—		
853	179	—	210	—		
863	249	—	289	—		
866	306	—	353	—		
845	325	—	384	—		
874	370	—	424	—		
879	492	—	558	—		
880	542	—	615	—		
882	739	—	837	—		
898	27	—	30	—		
903	130	—	144	—		
909	212	—	233	—		
903	261	—	288	—		
905	292		322	—		

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Dyf - RH 1897 - April 5, 1930

Strip	Class	Star	γ	δ	Dyff	Dyfl	Cl	Dk	Notes
		5	—	—	391	—	957	042	
		6	—	—	547	—	962	043	
		7	—	—	600	—	977	051	
		8	—	—	821	—	967	052	
19.0	p	29	1912	913	779	—	967	051	
	p	30	1910	347	642	642	971	050	
	p	40	1900	494	772	—	980	057	
	p	41	1897	639	820	—	973	052	
	p	31	1903	1013	727	721	952	049	
	p	42	1908	1097	623	—	982	052	
19.2	p	43	1918	063	822	—	970	053	
	p	44	1920	236	652	—	986	049	
	p	32	1917	487	238	229	988	053	
	p	33	1929	580	750	793	987	062	
	p	34	1930	748	830	838	984	061	
	p	35	1928	1206	859	898	987	058	
	p	45	1921	1210	750	—	980	059	
19.4	p	46	1953	102	170	—	1010	063	
	p	36	1940	253	620	593	990	060	
	p	37	1945	473	853	922	992	064	
	p	47	1950	923	813	—	1001	063	
19.6	p	48	1965	997	850	—	1001	068	
	p	49	1968	676	723	—	985	062	
	p	50	1960	847	642	—	987	070	
19.8	p	51	1981	120	721	—	1004	067	
	p	52	1993	481	883	—	997	071	
	p	38	1998	821	270	263	1000	072	
	p	53	1992	1008	699	—	997	076	
	p	54	1987	1019	543	—	1000	073	
	p	55	1991	1042	610	—	1007	073	

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1930phae.proj..12730

Cl-Ok	Diff-Ok	Diff-Ok	Red Defl	Red Defl	Mag	L. No
915	349	—	381	—		
919	504	—	548	—		
926	549	—	593	—		
915	769	—	840	—		
916	728	—	795	—		
921	592	592	642	642	7.60, 7.60	
923	715	—	775	—		765
921	768	—	834	—		2035
903	678	672	752	745	8.02, 8.00	
930	571	—	614	—		1208
917	769	—	839	—		
937	603	—	643	—		679
925	185	176	200	190	4.79, 4.71	
925	688	671	744	725	7.99, 7.93	
923	769	777	834	843	8.27, 8.30	
929	801	840	863	905	8.36, off curve	
921	691	—	751	—		1235
947	107	—	113	—		660
930	560	533	600	573	7.40, 7.31	
928	789	858	850	925	8.32, off curve	
938	750	—	800	—		1189
933	782	—	838	—		
923	661	—	716	—		25
917	572	—	623	—		1171
937	654	—	696	—		647
926	812	—	876	—		684
928	198	191	214	206	4.93, 4.87	
921	623	—	675	—		1246
927	470	—	506	—		1242
934	537	—	575	—		1251

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1930phae.proj.12730

HJP - R # 1897 - April 15, 1930

Mag	Class	Star	y	x	Defe	Defe	ce	Dk Patts
	p	56	1981	1057	857	—	987	072
	p	39	1990	1098	881	913	992	072
	p	40	1980	1117	698	703	987	064
	p	57	1986	1137	910	—	999	071
20.0	p	58	2012	309	597	—	998	077
	p	59	2007	1147	877	—	987	072
20.2	p	41	2032	687	633	662	1008	077
	p	42	2020	813	478	467	998	069
20.4	p	43	2050	823	823	839	987	070
	p	44	2043	337	597	597	989	077
	p	60	2048	372	417	—	979	073
	p	61	2050	788	418	—	1042	077
	p	45	2051	584	708	712	1003	074
	p	46	2057	613	800	861	1012	073
	p	47	2040	758	432	407	1007	077
	p	48	2051	880	313	304	976	082
	p	62	2041	970	807	—	992	073
	p	63	2038	999	520	—	1006	072
	p	64	2046	1118	873	—	982	071
	p	49	2039	1123	704	692	993	078
20.6	p	50	2057	248	855	878	1007	080
	p	65	2066	293	453	—	1012	078
	p	66	2068	423	710	—	997	082
	p	67	2063	1161	798	—	1008	086
20.8	p	51	2070	384	840	888	1003	087
	p	52	2077	388	913	913	992	082
	p	53	2078	1190	560	508	993	081
21.0	p	68	2112	302	636	—	1000	075
	p	54	2110	471	842	872	1006	081
	p	69	2111	1177	828	—	998	078

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1930phae.proj.12760

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag	L.NO
915	785	—	859	—		1244 ✓
920	809	841	879	915	offcurve, offcurve	
923	574	639	622	693	7.51, 7.80	
928	839	—	903			
921	526	—	565	—		642 ✓
915	805	—	880	—		
921	556	585	605	635	7.43, 7.56	
929	409	398	440	428	6.61, 6.53	
917	753	769	820	836	8.23, 8.27	
912	520	520	570	570	7.26, 7.26	
906	344	—	380	—		625 ✓
935	341	—	365	—		627 ✓
929	634	638	682	686	7.76, 7.77	
929	727	788	783	848	8.10, 8.30	
930	355	330	382	354	6.24, 605	
894	231	222	259	248	5.30, 5.20	
919	734	—	799	—		
934	448	—	480	—		1279 ✓
906	797	—	880	—		
915	626	614	685	670	7.76, 7.71	
927	775	798	835	860	8.27, 8.35	
934	375	—	402	—		606 ✓
915	628	—	686	—		601 ✓
922	712	—	772	—		8 +
916	753	801	821	874	8.23, offcurve	
910	831	831	914	914	offcurve, offcurve	
912	781	777	856	853	8.33, 8.32	
925	561	—	606	—		587 ✓
925	761	791	823	855	8.24, 8.34	
920	750	—	815	—		~~23~~

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1930phae.proj.12730

Dyf - RH 1897 — April 15, 1928

Class	Star	y	x	Dyff	Dyff	cc	Dk Volts
p	70	2110	1184	733	—	1002	083
21.2 p	55	2113	769	690	668	1004	077
p	71	2126	990	638	—	1007	078
p	56	2128	1243	647	648	1013	087
21.4 p	72	2133	219	841	—	1031	080
p	73	2150	312	643	—	990	077
p	57	2137	383	917	872	1009	077
p	74	2141	782	950	—	1014	081
p	75	2134	812	832	—	1013	078
p	76	2139	1031	917	—	1002	072
p	77	2133	1107	903	—	1010	083
21.6 p	58	2160	303	912	880	1012	087
p	78	2162	307	910	—	1003	091
p	59	2172	1138	490	518	1026	086
p	79	2164	1180	622	—	1007	076
21.8 p	60	2186	308	801	770	1002	068
p	61	2190	363	533	554	1007	073
p	80	2186	947	876	—	1010	080
22.0 p	81	2200	368	890	—	1010	081
p	62	2201	981	887	873	1016	082
p	63	2218	573	490	489	1006	082
p	64	2205	1054	917	914	1023	084
	10	2191	753	111	—	992	082
	1	1743	643	242	—	980	088
	2	—	—	331	—	995	088
	3	—	—	377	—	1007	082
	4	—	—	414	—	988	084
	5	—	—	448	—	1004	083
	6	—	—	592	—	1008	087
	7	—	—	617	—	1011	083
	8	—	—	869	—	1000	085

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1930phae.proj.12730

C-Dk	Defl-Dk	Defl.Dk	RedDefl	RedDefl	Mag.	L.No.
919	650	—	706	—		23 +
927	613	591	660	637	7.67, 7.57	
929	560	—	603	—		62 ✓
926	560	561	605	606	7.43, 7.44	
951	761	—	800	—		588 +
913	566	—	620	—		570 ✓
932	840	795	900	854	off curve, 8.35	
933	869	—	931	—		148 +
935	755	—	807	—		105 ✓
930	245	—	264	—		
927	820	—	885	—		
925	825	793	890	856	off curve, 8.33	
912	819	—	899	—		
940	404	432	430	458	6.54, 6.70	
931	545	—	585	—		51 +
934	733	702	785	752	8.12, 8.01	
934	460	481	493	515	6.88, 6.99	
930	796	—	856	—		
929	809	—	870	—		
934	805	791	862	848	8.36, 8.30	
924	408	407	443	442	6.62, 6.61	
939	833	830	885	884	off curve, off curve	
911	29	—	32	—		
892	154	—	173	—		
907	243	—	268	—		
925	295	—	319	—		
904	330	—	366	—		
921	360	—	391	—		
921	505	—	550	—		
928	534	—	575	—		
915	778	—	850	—		

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Fmc R+1897 April 15, 1930.

Strip	class	Star	y	x	Diff	Diff	α	δ	Volt
		15	2091	753	040	—	912	005	
		1	1743	643	160	—	890	005	
		2	—	—	259	—	922	008	
		3	—	—	275	—	910	002	
		4	—	—	328	—	890	003	
		5	—	—	351	—	900	007	
		6	—	—	493	—	910	002	
		7	—	—	535	—	917	001	
		8	—	—	770	—	911	000	
22.4	f	65	2239	229	449	430	925	018	
	fp	82	2240	899	760	—	950	018	
22.6	f	83	2262	230	709	—	940	021	
	fp	84	2260	1030	720	—	958	025	
22.8	f	85	2280	227	220	—	963	028	
	fp	86	2298	1000	720	—	957	028	
	f	66	2299	1187	130	123	925	019	
23.0	fp	87	2308	598	985	—	930	015	
23.2	f	67	2328	227	749	756	933	010	
	fp	88	2320	856	990	—	930	010	
	f	68	2305	1083	470	478	932	001	
		15	2091	753	023	—	909	000	
		1	1743	643	179	—	869	005	
		2	—	—	240	—	880	005	
		3	—	—	274	—	898	009	
		4	—	—	310	—	869	008	
		5	—	—	350	—	908	010	
		6	—	—	480	—	909	015	
		7	—	—	565	—	915	012	
		8	—	—	803	—	918	018	

Cont. in bk 76, 2

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1930phae.proj.12730

Q-Dk	Diff-Dk	Diff-Dk	Red Defl	Red Defl	Mag	L. No
907	35	—	39	—		
885	155	—	175	—		
914	251	—	275	—		
908	273	—	300	—		
887	325	—	366	—		
893	344	—	384	—		
908	491	—	540	—		
916	534	—	582	—		
911	770	—	845	—		
907	431	412	475	454	6.84, 6.77	
932	742	—	795	—		
919	688	—	750	—		541
933	695	—	745	—		118
935	192	—	205	—		
929	692	—	745	—		
906	111	104	122	114	3.60, 3.50	
915	370	—	404	—		376
923	739	746	800	810	8.13, 8.18	
920	380	—	414	—		205
931	469	477	504	513	6.97, 7.02	
909	23	—	25	—		
864	174	—	202	—		
875	235	—	268	—		
889	265	—	298	—		
861	302	—	350	—		
898	340	—	378	—		
894	465	—	520	—		
903	553	—	613	—		
900	785	—	870	—		

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