1929phae.proj.1264P

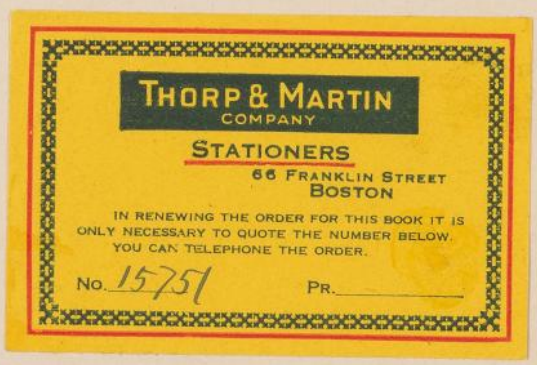
KG
11366
262

64

Plm
Zone +80
18h
RH 684
649
1009

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1929phae.proj.1264P

Index

		Page
RH 684, +80°	old series	p 1-17
No. 3 of NPS too bright on this plate		
RH 649,	old series	p18-35
2nd field exp. stronger than 1st		
RH 805	old series	
Measures rejected		
RH 1012	old series	42-59
1011	old series	59-72
1009	old series	74-99
857 - old series		100-116
1010 - old series		118-136
1123 - old series		142-146
963	New Series	150-168
964	" "	170-176
649	" "	178-194
857	" "	196-214
644	" "	214-218

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1929phae.prd.j126.P

Cl.-Dk	1st Defl.-Dk	2nd Defl.-Dk	Reduced defl. to 1000		Mag.	L.No.	Identification Chart Position		B.D. & H.D.
1226	105	—	86	—					
1221	280	—	229	—					
1246	329	—	264	—					
1237	412	—	333	—					
1230	436	—	354	—					
1234	610	—	494	—					
1214	785	—	646	—					
1204	820	—	681	—					
1232	1112	—	904	—					
1222	920	907	753	743	780,774	~~780,774~~	17 46 +73.6	+73°791	
1221	989	—	645	—	717	844			
1216	842	—	693	—	737?	809			
1225	865	856	705	700	758,756		too faint to reduce?		
1211	658	660	544	545	684,684		17 56 +74.6	+74°740	
1225	664	—	542	—	673	892?			
1210	817	842	675	695	744,752		17 26 +74.8	+74°710	
1217	877	—	721	—	750	880			
1226	812	804	663	655	739,736		17 58 +75.2 ~~17 07 +75.5~~	+75°647	
1214	780	771	643	635	730,726		17 05 +75.4	+75°605 2	
1203	542	550	449	456	641,645		17 02 +75.5	+75°603	
1223	923	909	755	743	780,775				
1216	713	—	589	—	691	805			
1197	677	644	566	538	695,681		18 09 +75.7	+75°655	
1220	335	339	275	278	549,551		18 51 +75.3	+75°682	
1197	710	724	594	605	707,713		16 58 +75.7	+75°608	153720
1186	851	860	719	725	763,767		17 57 +76.0	+76°668	
1212	445	428	367	353	604,598		18 59 +75.6	+75°683	
1197	290	316	242	264	.., 540		17 56 +77.0	+76°667	
1189	269	240	227	202	.. ..		16 22 +76.1	596	
1192	236	260	198	218	.. ..		16 15 +76.3	594	

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1929phae.proj.126.HP

CHP Jan 14th '29 RH684, No down Image set on cross wire, not for minimum

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volt
CHP	p	10	1983	760	339	—	1460	234	4.95
	p	1	1622	7527	513	—	1454	233	
	p	2	1830	1054	562	—	1479	233	
	p	3	1939	960	646	—	1471	234	
	p	4	1658	7522	669	—	1463	233	
	p	5	1984	790	846	—	1470	236	
	p	6	2000	600	1023	—	1452	238	
	p	7	1933	498	1062	—	1446	242	
	p	8	2009	751	1350	—	1470	238	
13.4	f	1	1330	596	1160	1147	1462	240	
13.8	p	1	1376	558	1032	—	1464	243	
14.0	p	2	1396	480	1084	—	1458	242	
	f	×2	1408	341	1108	1099	1468	243	
14.2	f	3	1429	659	900	902	1453	242	
	p	3	1416	720	907	—	1468	243	
14.4	f	4	1451	3X19	1065	1090	1458	248	
	p	4	1452	607	1139	—	1479	262	
14.8	f	5	1487	679	1074	1066	1468	262	
15.2	f	6	1532	366	1040	1031	1474	260	
	f	7	1537	374	800	808	1461	258	
	f	×8	1521	9849	1180	1166	1480	257	
15.4	p	5	1544	526	971	—	1468	258	
	f	9	1543	728	940	907	1460	263	
	f	10	1540	977	586	590	1471	251	
15.6	f	11	1558	328	962	976	1449	252	
	f	12	1561	669	1103	1112	1438	252	
15.8	f	13	1580	1010	697	680	1464	252	
16.4	f	14	1651	655	542	568	1449	252	
16.6	f	15	1658	149	519	490	1439	250	
16.8	f	16	1681	119	486	510	1442	250	

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1929phae.proj:126:P

Ⓓ-Dk.	1st Dfl-Dk.	2nd Dfl-Dk.	Reduced dfl.		Mag	L. No. Pole	Approx. Chart Pos.	B.D.	H.D.
1213	267	258	218	211	.. .1		19 15 +76.4	707	
1178	144	—	122	—	3.16?	659			
1211	576	575	476	475	653,653		18 37 +77.5	699	
1173	583	582	498	497	664,664		17 02 +77.8	641	
1210	718	708	593	584	707,703		18 44 +77.6	702	
1171	499	481	427	411	632,626		16 50 +77.7	634	
1173	348	350	298	299	569,569		16 09 +77.2	616	
1190	840	834	707	701	768,766		17 58 +78.3	616	
1205	834	—	691	—	~~757~~ 767	1104			
1192	867	—	727	—	~~752~~	1166			
1172	615	—	524	—	664	606			
1174	624	—	531	—	667	625			
1196	[701]	806	—	674	.. .743		19 36 +77.9	734	
1174	774	769	662	655	738,736		16 47 +79.2	511	
1170	933	—	797	—	803	601			
1172	524	—	446	—	663	627			
1178	790	770	686	667	~~746~~,743		17 29 +79.5 2 faint companions	540 separated	
1181	1076*	1079*	909	909	858,860		18 24 +79.0	+78°632	too ft.
1185	787	—	663	—	738	1171			
1200	1007	—	838	—	825	1139			
1193	724	—	606	—	717	1208			
1203	410	—	340	—	615	1214			
1144	493	474	431	423	657,653		15 10 +79.0	+78°506	
1147	122	120	106	104	409,407		15 36 +79.2	? Var.	
1157	962	—	832	—	821	583			
1151	301	291	262	253	568,562		16 34 +79.3	498	
1153	830	—	720	—	764	587			
1175	1000	995	855	848	829,825		17 25 +79.7	536	faint
1177	750	740	638	629	729,725		18 36 +79.5	Not in. MS note in B.D.	
1156	952	952	824	824	813, 813		16 45 +79.5 16 50 +79.7	58	

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CHP + MRD Jan 14th 29 RH684, No down

Strip	Class	Star	y	x	Defe	Defe	cl	Dk
CHP	f	✓17	1672	1072	519	510	1465	252
17.0	p	6	1709	151	398	—	1432	254
	f	✓18	1718	856	827	826	1462	251
17.4	f	✓19	1752	400	841	840	1431	258
	f	✓20	1734	891	968	958	1460	250
17.6	f	✓21	1759	333	758	740	1430	259
17.8	f	✓22	1776	121	601	603	1426	253
	f	✓23	1774	663	1092	1086	1442	252
	p	7	1792	1201	1090	—	1461	256
18.4	p	8	1832	1044	1125	—	1450	258
18.6	p	9	1859	316	869	—	1426	254
	p	10	1858	398	882	—	1432	258
	f	✓24	1856	1117	[955]	1060	1450	254
MRD 18.8	f	✓25	1888	352	1030	1025	1430	256
	p	11	1887	442	1189	—	1426	256
	p	12	1884	509	781	—	1429	257
	f	✓26	1879	536	1050	1030	1438	260
	f	✓27	1879	763	1337	1340	1442	261
	p	13	1875	880	1050	—	1448	263
	p	14	1880	957	1267	—	1460	260
	p	15	1879	1136	984	—	1453	260
	p	16	1872	1230	670	—	1463	260
19.0	f	✓28	1905	009	749	730	1400	256
	f	✓29	1904	083	380	378	1405	258
	p	17	1909	229	1223	—	1418	261
	f	✓30	1910	304	560	550	1410	259
	p	18	1905	312	1090	—	1413	260
	f	✓31	1902	520	1260	1255	1435	260
	f	✓32	1901	815	1010	1000	1437	260
19.2	f	✓33	1916	355	1210	1210	1414	258

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1929phae.proc...126.P

G-Dk.	1st Defl.-Dk.	2nd Defl.-Dk.	Red	defl.	Mag.	L. No. Pole	Chart Pos	BD	HD
1166	941	934	807	800	805,801		see x on p5	+79°.517	
1180	260	260	221	221	536,536		18 11 +79.9 ft comp. separated	570-571	
1173	1044	1044	1023	1023	too faint		18 38 +79.7	591	too faint
1199	849	—	708	—	758	1235			
1167	1032	—	881	—	846	..			
1156	801	—	693	—	760	570			
1166	694	694	596	596	712,712		17 32 +80.3	544	
1152	1042	1052	909	917	858,862		17 54 +80.4	555	too ft.
1163	563	543	483	488	673,667		18 56 +79.7	604	
1173	793	—	675	—	744	1246			
1189	405	386	340	324	615,605		19 31 +79.4	628	
1191	598	—	502	—	680	1242			
1190	740	—	621	—	722	1251			
1178	1018	—	861	—	836	1244			
1155	780	788	677	683	643,647		16 42 +80.1	519	
1141	1044	1049	916	920	861,864		see No. 38	—	
1180	1005	1005	857	857	829,829		19 34 +79.5	629	
1176	1066	—	908	—	862	..			
1179	915	—	776	—	793	f.			
1181	555	—	470	—	668	1279			
1178	872	857	742	729	775,769		19 52 +79.2	645	
1160	805	805	696	696	751,751		17 09 +81.1	568	
1168	949	959	812	822	807,811		19 19 +80.5	609	
1173	806	798	687	682	747,746		19 18 +80.5	607	
1173	865	795	688	679	749,744		20 11 +79.3	660	
1145	305	—	266	—	570	536			
1149	924	—	804	—	806	541			
1158	961	—	830	—	820	105			
1165	910	920	783	791	784,788		19 08 +80.7	603	
1171	881	—	752	—	780	8			

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MRD Jan 14 at 29 PH684, no down

Strip	Class	Star	y	x	Defc	Defk	Cl	Dk
19.2	f	34	1926	410	1200	1193	1425	259
	f	35	1929	709	510	510	1430	260
	f	36	1919	819	1300*	1300	1439	256
	p	19	1917	1242	1110	—	1460	261
19.4	p	20	1954	306	1295*	—	1430	263
	p	21	1945	314	1065	—	1420	264
	f	37	1951	550	960	960	1432	266
	f	38	1955	639	1310*	1320	1420	268
	f	39	1943	890	830	810	1430	267
	p	22	1941	1030	1061	—	1441	268
	f	40	1955	1039	669	650	1453	264
	p	23	1939	1041	865	—	1458	267
	p	24	1950	1064	1010	—	1460	270
	p	25	1941	1080	1290*	—	1450	272
19.6	f	41	1972	353	1050	1058	1425	270
	f	42	1955	639	1315*	1320	1412	271
	f	43	1974	1042	1280*	1280	1455	275
	p	26	1971	1129	1340*	—	1450	274
19.8	p	27	1980	981	1190	—	1454	275
	p	28	1984	1011	830	—	1456	275
	f	44	1988	1125	1145	1130	1451	273
20.2	f	45	2036	479	1075	1075	1430	270
	f	46	2033	950	1220	1230	1439	271
	f	47	2037	952	1078	1070	1445	272
	f	48	2035	1189	1075	1065	1443	270
20.4	p	29	2050	200	570	—	1410	265
	p	30	2037	210	1190	—	1415	266
	p	31	2039	808	1230	—	1427	269
	f	49	2040	907	1180	1190	1435	270
	p	32	2045	1164	1150	—	1440	269

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Plate-Dk.	1st Defl.-Dk.	2nd Defl.-Dk.	Reduced Defl.		Mag.	L. No. Pole	Chart Pos	B. D.	H. D.
1158	880	885	762	765	784,786		18 19 +81.5 (2 stars?)	619	
1167	697	—	597	—	714	62			
1174	984	979	841	837	821,818		20 21 +79.2	668	
1139	369	—	324	—	605	527			
1130	660	660	584	584	707,707		15 49 +80.4	487	
1142	920	925	806	811	804,807		15 51 +80.6	489	
1158	328	—	283	—	582	56			
1166	792	—	679	—	745	23			
1160	55	—	47	—					
1167	150	—	129	—					
1156	241	—	209	—					
1161	321	—	279	—					
1153	350	—	309	—					
1158	428	—	370	—					
1152	687	—	596	—					
1149	769	—	669	—					
1146	987	—	861	—					
1221	31	—	31	—			This plate was reduced to 1740		
1234	124	—	125	—					
1230	183	—	184	—			Wrong reducing factor		
1236	332	—	332	—			was first used in		
1235	352	—	353	—			getting the pole magnitudes		
1236	488	—	488	—					
1229	716	—	718	—					
1221	796	—	804 797	—					
1228	1073	—	1074	—					
1189	902	—	930	7.79	7.79	534			
1190	919	—	942	—	7.76	523			
1220	985	994	808	817	740,743				
							19 23 +81.4	659	

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MRD Jan 14th '29 RH 684, no down

Strip	Class	Star	Y	X	Defe	Defl	Cl	Dk
20.6	f	✓50	2065	724	1145	1150	1423	265
	fp	33	2060	944	965	—	1435	268
	f	✓51	2059	1229	1250	1245	1440	266
20.8	fp	34	2080	045	630	—	1400	261
	f	✓52	2083	179	920	920	1390	260
	f	✓53	2088	199	1180	1185	1402	260
	fp	35	2090	1020	590	—	1420	262
	fp	36	2096	1177	1055	—	1429	263
	p	1s	1983	760	315	—	1420	260
	p	1	1622	777	410	—	1427	260
	p	2	1830	1054	500	—	1415	259
	p	3	1939	960	580	—	1410	259
	p	4	1658	722	610	—	1413	260
	p	5	1984	790	790	—	1420	262
	p	6	2000	600	950	—	1415	263
	p	7	1933	498	1030	—	1410	261
	p	8	2009	751	1250	—	1419	263

MRD Jan 15th/29, RH 684, no down — Volt 4.92

	p	1s	1983	832	290	—	1480	259
	p	1	1622	800	380	—	1490	256
	p	2	1830	1129	445	—	1492	262
	p	3	1939	1034	595	—	1499	263
	p	4	1658	799	612	—	1495	260
	p	5	1984	863	750	—	1498	262
	p	6	2000	674	980	—	1493	264
	p	7	1933	571	1060	—	1485	264
	p	8	2009	821	1340	—	1495	267
21.0	fp	37	2097	146	1171	—	1458	269
	fp	38	2110	259	1189	—	1460	270
21.2	f	✓54	2122	1026	1245	1254	1480	260

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Diff.-Dk.	1st Diff.-Dk.	2nd Diff.-Dk.	Reduced diff	overlap	Mag.	L. No. Pole	Mag.	Chart	B.D.	H.D.
1235	905	894	733	~~724~~	717,			20 22 +80.1	650	
1207	867	872	718	724	711, 713			15 47 +81.1	523	
1199	219	200	184	167	507, 493			17 02 +82.3	498	
1215	970	974	800	804	739, 740			19 28 +81.6	660	
1218	604	–	615	–	648	51	6.82			
1190	968	–	998	–	742	509	8.01			
1191	898	895	755	753			744, 723	15 39 +81.3	517	
1191	461	–	480	–	614	376	6.42			
1204	935	–	961	–	729	h	7.89			
1205	520	520	431	431			630, 630	19 09 +82.2	572	
1211	956	961	791	796			736, 737	19 59 +81.2	687	
1190	935	925	787	797			734, 730	16 24 +82.5	481	
1184	959	944	809	797			740, 737	17 35 +82.9 ~~17 39 +83.4~~	521	
1180	973	968	825	820			746, 744	15 29 +81.6	510	
1172	539	–	569	–	637	474	6.68			
1182	837	–	877	–	708	451	7.61			
1184	966	–	1000	–	743	425	8.02			
1182	812	–	852	–	703	338	7.53			
1191	658	639	552	537			663, 659	18 ? 39 +82.9	540?	
1194	855	862	718	724			710, 712	19 17 +82.5	578	
1207	857	–	880	–	709	118	7.62			
1188	963	–	1008	–	739	90	8.04			
1171	814	–	860	–	704	502	7.56			
1180	739	–	776	–	685	498	7.29			
1190	327	333	276	280		562 565	940	18 42 +83.1	536	
1184	364	–	381	–	580	205	6.12			
1183	831	–	870	–	706	d	7.59			
1201	729	729	607	607			679, 679	20 36 +80.9	657	
1200	400	391	333	325			592, 589	20 37 +80.9	659	
1180	850	840	721	712			712, 710	16 24 +82.0	485	

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MRD Jan 15th '29 RH 684

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk
	f	55	2119	1257	1160	1149	1490	255
21.4	f	56	2139	277	1120	1125	1460	253
	f	57	2150	549	470	451	1450	251
	f	58	2149	1016	1230	1234	1475	260
	fp	39	2150	1237	865	—	1479	261
21.6	p	40	2174	225	1228	—	1450	260
	f	59	2166	264	1155	1152	1448	257
	fp	41	2159	632	720	—	1450	259
	p	42	2160	942	1190	—	1459	255
	f	60	2168	942	775	775	1460	255
	f	61	2161	1130	1215	1220	1470	259
21.8	f	62	2197	444	1190	1180	1445	255
	f	63	2189	657	1215	1200	1440	256
22.0	f	64	2206	251	1230	1226	1437	257
	fp	43	2213	333	800	—	1433	261
	fp	44	2210	430	1100	—	1445	263
	p	45	2210	508	1230	—	1448	264
	p	46	2215	673	1080	—	1450	268
	f	65	2200	808	919	900	1452	261
	f	66	2200	955	1115	1122	1454	260
	p	47	2209	1070	1118	—	1468	261
	p	48	2200	1140	1225	—	1450	262
22.2	p	49	2230	151	1073	—	1430	259
	p	50	2220	705	999	—	1440	260
	f	67	2224	845	585	591	1448	258
	p	51	2229	884	620	—	1440	256
	p	52	2235	1030	1090	—	1442	259
	f	68	2220	1250	990	990	1467	261
	f	69	2223	1254	660	650	1460	260
22.4	f	70	2238	477	1110	1100	1440	260

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Obs.	1st Defl. Obs.	2nd Defl. Obs.	Reduced defl.		Mag.	L. No. Pole	Chart	B. D.	H. D.
1174	904	904	771	771	730,730		17 39 +83.4	512	
1175	893	903	762	771	726,730		18 42 +83.3	535	
1190	840	833	706	700	707,705		20 18 +81.8	697	
1170	965	950	826	811	746,741		15 37 +82.4	456	
1171	898	–	950	–	7.85 ~~726~~	457			
1170	650	661	556	563	663,666		15 42 +82.7	463	
1165	820	–	872	–	7.60 ~~709~~	274			
1163	975	–	839	–	7.50 ~~749~~	..			
1167	942	939	804	801	740,739		17 39 +83.8	511	
1170	913	903	779	772	731,729		18 38 +83.6	534?	
1176	450	435	367	371	605,607		19 35 +83.2	552	
1178	692	698	588	594	673,675		20 32 +81.9	706	
1170	679	–	719	–	7.10 ~~671~~	462?			
1162	802	797	690	686	703,702		15 59 +83.4	453	
1159	746	–	798	–	7.35 ~~690~~	420			
1158	458	–	491	–	6.46 ~~646~~	279			
1174	578	578	494	494	648,648		19 12 +83.6	547	
1170	20	–	21	–					
1172	111	–	116	–					
1180	172	–	179	–					
1177	324	–	338	–					
1176	342	–	358	–					
1178	479	–	499	–					
1176	712	–	743	–					
1174	788	–	823	–					
1175	1066	–	1115	–					

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MRD Jan 15th '29 RH 684, No Down

Strip	Class	Star	y	x	Defl	Defl	α	Dec
22.4	f	71	2242	670	1160	1160	1430	256
	f	72	2240	839	1150	1160	1432	257
	f	73	2242	1156	1100	1093	1450	260
22.6	f	74	2260	310	1225	1210	1430	260
	p	53	2265	337	1156	—	1429	258
	f	75	2277	347	910	920	1430	260
	p	54	2274	785	1080	—	1425	260
22.8	p	55	2279	202	1235	—	1423	260
	f	76	2278	670	1203	1200	1428	261
	f	77	2289	761	1175	1165	1432	262
	f	78	2280	970	690	695	1436	260
	f	79	2280	1183	954	960	1440	262
23.0	p	56	2314	240	940	—	1431	261
	f	80	2307	415	1065	1060	1425	263
	p	57	2312	442	1010	—	1423	264
	p	58	2306	773	720	—	1420	262
	f	81	2300	898	840	840	1436	262
	p	10	1983	832	280	—	1430	260
	p	1	1622	800	372	—	1433	261
	p	2	1830	1129	432	—	1440	260
	p	3	1939	1034	584	—	1437	260
	p	4	1658	799	601	—	1435	259
	p	5	1984	863	740	—	1439	261
	p	6	2000	674	972	—	1436	260
	p	7	1933	571	1049	—	1435	261
	p	8	2009	821	1328	—	1437	262

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A-Dk	1st Defl-Dk	2nd Defl-Dk	Reduced defl.		L. No Pole	Mag.	Chart	B.D.	H.D.
1255	40	32	–						
1262	122	96	–						
1260	188	149	–						
1262	335	265	–						
1260	354	281	–						
1260	502	398	–						
1246	726	583	–						
1246	807	650	–						
1249	1075	856	–						
1225	1004	–	819	–	462 ~~464~~	8.08 ~~7.71~~			
1213	453	–	374	–	426	6.37			
1216	681	681	563	563		711,711	16 41 +84.0	361	
1217	499	–	410	–	294	6.52			
1242	1002	985	806	791		804,798	20 32 +82.4	613	
1223	783	783	639	639		738,738	16 08 +84.1	351	
1222	590	–	482	–	240	6.80			
1236	441	–	357	–	183	6.30			
1239	798	796	644	642		741,740	20 39 +82.7	617	
1216	371	376	307	311		609,611	15 02 +83.1	431	
1207	977	983	809	814		805,808	17 37 +84.7	383	
1209	827	–	884	–	..	8.38			
1217	974	974	802	802		803,803	18 16 +84.7 2 stars?	406	
1204	784	774	651	643		743,741	18 34 +84.6	412	
1219	943	–	774	–	135	7.90			
1213	917	–	955	–	..	..			
1201	962	–	800	–	..	8.01			
1202	905	885	754	737		782,776	17 22 +84.9	378	
1215	386	380	317	312		613,611	20 43 +83.1	588	
1198	881	878	739	736		775,774	15 36 +84.4	345	
1196	847	–	708	–	264	7.60			

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MRD Jan 16,29 7H 684, No Dawn

Strip	Class	Star	y	x	Defl	Defl	Cl	Clk	Volt
	p	1s	1983	821	260	—	1475	220	4.91
	p	1	1622	790	340	—	1480	218	
	p	2	1830	1118	405	—	1477	217	
	p	3	1939	1024	553	—	1480	218	
	p	4	1658	788	573	—	1479	219	
	p	5	1984	851	722	—	1480	220	
	p	6	2000	663	945	—	1465	219	
	p	7	1933	561	1027	—	1460	220	
	p	8	2009	811	1298	—	1472	223	
23.2	p	59	2320	231	1229	—	1450	225	
	p	60	2329	400	6810	—	1440	227	
	f	✓82	2320	522	911	911	1446	230	
	p	61	2330	740	730	—	1448	231	
	f	✓83	2314	1148	1237	1220	1477	235	
23.4	f	✓84	2350	450	1020	1020	1460	237	
	p	62	2338	860	830	—	1462	240	
	p	63	2350	993	681	—	1476	240	
	f	✓85	2348	1139	1039	1037	1480	241	
23.6	f	✓86	2375	260	610	615	1455	239	
	f	✓87	2360	661	1219	1225	1449	242	
	p	64	2370	702	1070	—	1452	243	
	f	✓88	2360	740	1220	1220	1463	246	
	f	✓89	2358	780	1030	1020	1450	246	
	p	65	2362	1151	1190	—	1466	247	
23.8	p	66	2377	324	1164	—	1460	247	
	p	67	2378	570	1211	—	1450	249	
	f	✓90	2385	630	1155	1135	1452	250	
	f	✓91	2385	1121	636	630	1465	250	
24.0	f	✓92	2412	400	1133	1130	1450	252	
	p	68	2404	820	1100	—	1449	253	

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1929phae.proj.126.P

Cl-Dk	1st Defl-Dk	2nd Defl-Dk	Reduced Defl.		Mag.	L.No Pole	Chart	B.D.	H.D
1199	947	947	792	792	7.99, 7.99		20 0 +84.4	445	
1211	527	526	434	435	6.62, 6.62		20 20 +84.3	451	
1201	698	695	582	579	7.17, 7.16		20 31 +84.1	462	
1196	811	811	680	680	7.53, 7.53				
1195	857	856	718	717	6.99? 6.98? ??		15 51 +85.4	263	
1187	585	587	493	495	6.83 6.84 8.01	805	16 04 +85.7	269	
1198	958	–	800	—	~~225~~	225			
1194	173	–	145	—	5.10	239			
1197	773	–	646	—	7.34	206			
1192	593	–	497	—	6.85	297			
1191	364	–	305	—	6.06	242			
1190	65	65	55	55	3.52 3.52	903	18 11 +86.6 ~~16 04 +85.7~~	269	
1192	912	914	768	770	787, 788	–	19 01 +86.5	282	
1192	243	243	204	204	5.54 5.54	910	18 25 +86.9	272	
1188	751	–	632	–	7.29	b			
1192	16	13	–						
1190	98	82	–						
1195	155	131	–						
1192	307	257	–						
1195	326	273	–						
1195	476	398	–						
1191	699	586	–						
1195	779	651	–						
1193	1054	881	–						

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MRD Jan 16, '29 RH 684, No Dawn

Strip.	Class	Star	y	x	Defl	Defl	cl	Lik
24.0	f	93	2412	965	1199	1199	1451	252
24.2	f	94	2427	1010	780	779	1464	253
	f	95	2430	1039	950	947	1453	252
24.4	f	96	2450	738	1065	1065	1450	254
24.6	f	97	2470	471	1110	1109	1448	253
24.8	f	98	2490	517	838	840	1440	253
	p	69	2479	865	1215	—	1455	257
	p	70	2490	910	429	—	1450	256
	p	71	2489	1000	1030	—	1454	257
25.0	p	72	2499	741	850	—	1449	257
25.2	p	73	2531	918	620	—	1447	256
25.4	f	99	2539	729	320	320	1445	255
	f	100	2542	788	1170	1172	1450	258
25.6	f	101	2572	730	500	500	1449	257
	p	74	2560	840	1010	—	1447	259
	p	14	1983	821	274	—	1450	258
	p	1	1622	790	356	—	1448	258
	p	2	1830	1118	414	—	1449	259
	p	3	1939	1024	567	—	1452	260
	p	4	1658	788	586	—	1455	260
	p	5	1984	851	734	—	1453	258
	p	6	2000	663	958	—	1450	259
	p	7	1933	561	1040	—	1456	261
	p	8	2009	811	1314	—	1453	260

finished

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Magnitudes from this plate seem to be rather too bright?

Cl. Obs	1st Diff. Obs	2nd Diff. Obs	Reduced diff.		Mag.	L. No. Pole	P No. field
721	12	–	17	–			
714	40	–	56	–			
727	74	–	102	–			
732	133	–	184	–			
719	148	–	206	–			
727	228	–	314	–			
730	341	–	467	–			
720	396	–	550	–			
733	539	–	732	–			
731	502	500	684	682	805, 804		100
728	67	62	92	85	.. ..		99
718	220	–	307	–	6.48	242	
708	329	–	465	–	7.16	297	
722	343	343	473	474	711, 711		?98
723	392	–	542	–	7.47	206	
725	424	[illegible]	583				..
723	103	–	142	–	5.62	239	
735	dust	487	dust	610	762 ..		97
722	448	436	620	605	777, 770		96
723	372	373	512	514	727, 728		95
723	289	293	400	405	675, ~~666~~ 677		94
729	499	485	695	667	807, 800		92
719	263	195	280	271	624, 617		91
711	421	–	593	–	7.68	264	
728	501	500	687	686	807, 807		90
714	530	505	739	707	831, 816		88
716	418	–	585	–	7.64	C.	
728	220	210	302	288	631, 625		86
737	420	420	570	570	753, 753		85
700	426	418	608	582	771, 759		89

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1929phae.proj.126.P

January 18 RH 649 +80° at 18h00. CHP measured. Background fogged

Slip	Class	Star	y	x	Defl	Defl	Cl	Dk
		1s	1879	580	278	–	987	266
		1	2239	640	304	–	978	264
		2	2057	297	337	–	990	263
		3	–	–	395	–	994	262
		4	–	–	409	–	980	261
		5	–	–	489	–	988	261
		6	–	–	603	–	992	262
		7	–	–	658	–	982	262
		8	–	–	802	–	998	265
~~13.0~~	f ✓	1	1311	619	765	763	994	263
13.2	f ✓	2	1313	678	329	324	990	262
13.4	p	1	1340	444	484	–	982	264
13.6	p	2	1361	621	595	–	974	266
	f ✓	3	1359	990	609	610	989	267
13.8	p	3	1392	365	660	–	991	268
	f ✓	4	1380	400	690	on another star	991	266
	p	4	1382	451	370	–	990	267
	f ✓	5	1382	934	dust	753	1001	266
14.0	f ✓	6	1400	670	716	704	990	268
14.2	f ✓	7	1422	368	689	640	990	267
	f ✓	8	1428	396	556	560	990	267
14.4	f ✓	9	1437	1006	768	754	998	269
14.6	f ✓	10	1468	284	470	462	986	267
	p	5	1459	550	690	–	980	269
	f ✓	11	1467	778	771	770	998	270
14.8	f ✓	12	1490	665	800	775	984	270
	p	6	1486	670	688	–	986	270
	f ✓	13	1474	1147	490	480	998	270
15.0	f ✓	14	1509	268	690	690	1007	270
	f ✓	15	1495	627	696	678	990	270

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1929phae.proj.126:P

Pl-Dk	1st Diff-Dk	2nd Diff-Dk	Reduced diff.		Mag.	L.No. pole	P No. field
737	421	399	571	543	753,743		84
722	247	–	342	–	6.63	426	
726	362	–	499	–	7.29	464	
736	452	–	614	–	7.77	135	
726	234	–	322	–	6.54	183	
722	296	–	410	–	6.92	240	
708	250	–	353	–	6.67	294 ~~279~~	
720	387	368	539	512	740,727		82
729	430	–	590	–	7.67	420	
714	308	297	431	417	691,682		81
715	297	–	416	–	6.95	279	
727	447	437	617	603	776,769		80
705	236	226	335	321	647,641		78
718	392	380	545	529	743,735		75
732	386	375	525	512	733,727		79
700	455	–	650	–	7.93	274	
722	465	445	643	615	784,774		73
727	412	–	567	–	7.56	498	
734	258	234	357	317	653,648		69
736	402	384	547	521	743,732		68
707	193	186	272	267	617,615		67
705	414	–	587	–	7.65	d	
706	200	–	284	–	6.39	205	
707	351	337	495	476	720,711		65
707	421	–	595	–	7.69	338	
709	466	453	658	640	793,786		66
707	281	271	397	383	673,667		60
708	244	–	345	–	6.64	376	
710	108	107	152	151	542 542		57
735	another star	224	another star	305	.. 633		55

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1929phae.proj.126up

CHP. RH 649, no Down

Class	Star	y	x	Dfl	Defl	Clear	Dk
15.0 f ✓	16	1501	958	692	678	1008	271
p	7	1504	972	519	=	994	272
p	8	1505	1140	634	~~634~~	~~998~~	272
15.2 p	9	1528	222	724	-	1008	272
p	10	1529	381	506	—	998	272
p	11	1530	514	566	-	992	270
p	12	1529	635	522	—	980	272
f ✓	17	1531	883	659	640	992	272
p	13	1520	942	704	-	1003	274
15.4 f ✓	18	1550	520	581	570	987	273
p	14	1552	614	570	-	988	273
1· f ✓	19	1549	1002	720	710	1000	273
15.6 f ✓	20	1571	447	510	500	979	274
f ✓	21	1571	1071	664	652	990	272
15.8 f ✓	22	1575	234	660	649	1006	274
p	15	1587	604	728	-	973	273
16.0 f ✓	23	1610	262	739	719	996	274
p	16	1595	1189	687	-	1002	275
16.2 f ✓	24	1630	164	584	570	1010	276
f ✓	25	1631	169	679	661	1013	277
f ✓	26	1629	572	467	460	981	274
16.4 p	17	1644	365	691	—	982	277
p	18	1640	510	478	-	984	278
f ✓	27	1652	610	628	614	984	277
p	19	1638	721	698	-	984	277
16.6 f ✓	28	1653	462	743	730	986	277
16.8 f ✓	29	1683	476	554	544	980	273
p	20	1690	766	518	-	982	274
17.0 f ✓	30	1700	871	380	379	982	272
17.2 f ✓	31	1728	169	another star	497	1008	273

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1929phae.proj.126xP

Cl. Dk	1st Defl. Dk	2nd Defl. Dk	Reduced defl.		Mag.	L.No. Pole	Nbd. field
724	454	—	628	—	7.82	534 ✓	
715	139	—	194	—	5.93	540 ✓	
729	254	—	349	—	6.65	51 ✓	
711	149	—	210	—	6.01	536 ✓	
715	374	363	524	509	732, 726		52
712	91	—	128	—	5.50	56 ✓	
696	456	437	657	629	793, 781		50
733	358	—	488	—	7.25	23 ✓	
732	390	378	533	518	737, 729		48
705	312	—	443	—	7.07	62 ✓	
693	411	393	594	567	763, 751		47
709	493	476	697	672	811, 801		46
702	433	414	618	598	776, 763		45
689	571	—	743	—			
702	312	—	445	—			
698	359	—	514	—			
692	201	—	291	—			
693	126	—	184	—			
697	112	—	161	—			
699	64	—	92	—			
696	33	—	48	—			
689	12	—	17	—			

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1029phae.proj.126P

Class	Star	y	x	Defl	Defl	Cl	Dark
17.2 p	21	1714	1256	730	–	1000	276
p	22	1726	1282	413	–	989	274
17.4 p	23	1747	165	529	–	1004	275
17.6 p	24	1769	1130	423	–	985	274
f ✓	32	1763	1166	648	637	987	274
17.8 p	25	1794	311	366	–	987	275
f ✓	33	1787	620	730	711	970	274
18.0 p	26	1800	155	634	–	1009	276
18.2 f ✓	34	1819	158	670	658	1012	280
p	27	1819	390	589	–	982	277
f ✓	35	1815	391	688	670	970	277
f ✓	36	1820	396	770	753	986	277
f ✓	37	1814	868	711	692	980	278
p	8	–	–	789	–	967	278
p	6	–	–	591	–	981	279
p	7	–	–	638	–	977	279
p	5	–	–	478	–	969	277
p	4	–	–	403	–	970	277
p	3	–	–	388	–	973	276
p	2	–	–	341	–	976	277
p	1	–	–	310	–	967	277
p	1s	–	–	289	–	966	277

Finished measures at 12.40 Began at 10.10

Battery slightly down at end

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1929phae.proj.126.P

Clock	1st Diff. Clk	2nd Diff. Clk	Red. diff.		Mag.	L. No, Pole PNo. field
700	20	–	29	–		
702	66	–	94	–		
746	101	–	135	–		
720	169	–	235	–		
732	200	–	274	–		
735	281	–	383	–		
733	383	–	522	–		
724	439	–	607	–		
730	575	–	788	–		
746	556	–	746	–	8.15	..
760	565	–	745	–	8.15	..
765	510	475	668	632	779,761	44
742	507	487	684	656	785,773	41
738	240	225	325	309	620,612	40
750	470	–	627	–	7.59	570 ✓
735	300	–	408	–	6.59	1279 ✓
733	403	–	550	–	7.25	f
733	328	313	446	428	625,668	39
737	411	406	558	550	777,775	37
745	560	–	752	–	8.20	583 ✓
752	362	–	482	–	6.93	1251 ✓
740	200	182	270	246	594,584	35
734	564	544	768	741	827,813	34
736	560	551	760	761	824,824	33
735	473	–	649	–	7.70	587 ✓
739	258	238	350	323	632,620	30
743	563	–	768	–	8.27	1244 ✓
747	309	–	414	–	6.63	1242 ✓
740	420	–	568	–	7.32	1246 ✓
735	423	414	573	561	735,730	32

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MRD Jan. 21, '29 No dawn RH649

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volt
	p	1s	1879	570	240	—	920	220	4.91
	p	1	2239	630	289	—	925	223	
	p	2	2057	287	320	—	965	219	
	p	3	—	—	379	—	930	210	
	p	4	—	—	460	—	932	200	
	p	5	—	—	481	—	935	200	
	p	6	—	—	592	—	942	209	
	p	7	—	—	646	—	931	207	
	p	8	—	—	780	—	935	205	
18.4	p	28	1829	261	765	—	955	209	
18.6	p	29	1871	200	775	—	970	210	
	f ✓	38	1865	210	720	685	975	210	
	f ✓	39	1875	980	715	695	950	208	
18.8	f ✓	40	1897	299	450	435	948	210	
	p	29a ~~41~~	1880	1018	680	—	960	210	
19.0	p	30	1899	320	510	—	945	210	
	p	31	1898	349	710	—	940	207	
	f ✓	42	1908	449	530	515	935	202	
	f ✓	43	1897	787	620	615	946	209	
	p	32	1910	1105	770	—	955	210	
19.2	p	33	1935	270	580	—	970	218	
	f ✓	44	1920	629	410	392	950	210	
	f ✓	45	1920	926	770	750	940	206	
	f ✓	46	1930	981	770	761	945	210	
	p	34	1920	1021	687	—	949	214	
	f ✓	47	1937	1031	470	450	951	212	
19.4	p	35	1941	253	780	—	960	217	
	p	36	1945	291	520	—	958	211	
	p	37	1940	304	630	—	950	210	
	f ✓	48	1949	520	630	621	942	207	

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1929phae.proj.126aP

Cl-Ck	1st Dif-Dk	2nd Dif-Dk	Reduced diff.		Mag.	L. No. Pole PM. fixed
730	327	–	448	–	6.76	627?
732	511	–	699	–	7.92	601
743	129	124	173	167	540, 535	29
729	327	–	448	–	6.76	627
735	500	485	678	657	782, 772	25
738	357	–	476	–	6.90	606
742	472	–	636	–	7.63	1235
735	546	–	743	–	8.14	1139
740	517	504	697	681	7.93, 7.84	..
735	514	494	682	670	7.85, 7.80	..
732	505	475	686	647	7.87, 7.68	..
729	367	–	504	–	7.03	625
722	36	–	50	–		
723	80	–	113	–		
738	108	–	146	–		
728	166	–	228	–		
728	189	–	260	–		
727	269	–	370	–		
732	377	–	515	–		
729	437	–	601	–		
734	574	–	782	–		
710	26	–	37	–		
714	49	–	69	–		
750	105	–	141	–		
730	188	–	258	–		
719	199	–	277	–		
737	282	–	383	–		
738	398	–	540	–		

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MRD Jan. 21'29 RH 649, No Down

Strip	Class	Star	y	x (23)	Defl	Defl	Cl	Dk
	p	38	1955	879	537	—	940	210
	p	39	1950	894	725	—	946	214
	f ✓	49	1940	1252	940	335	954	211
19.6	p	40	1959	829	540	—	942	213
	f ✓	50	1960	983	715	700	950	215
	p	41	1970	1021	567	—	954	216
19.8	p	42	1980	094	690	—	960	218
	p	43	1997	381	751	—	950	215
	f ✓	51	1990	410	730	717	953	213
	f ✓	52	1980	677	720	710	951	216
	f ✓	53	1990	725	720	690	947	215
	p	44	1979	942	580	—	942	213
	p	1s	1879	570	254	—	940	218
	p	1	2239	630	300	—	943	220
	p	2	2057	287	330	—	960	222
	p	3	—	—	390	—	952	224
	p	4	—	—	409	—	948	220
	p	5	—	—	492	—	950	223
	p	6	—	—	601	—	956	224
	p	7	—	—	658	—	950	221
	p	8	—	—	794	—	954	220

MRD, Jan 22, 1929 RH 649, No down Volt. 4.96

	p	1s	1879	571	236	—	920	210
	p	1	2239	631	260	—	925	211
	p	2	2057	289	320	—	965	215
	p	3	—	—	398	—	940	210
	p	4	—	—	415	—	935	216
	p	5	—	—	495	—	950	213
	p	6	—	—	608	—	948	210

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1929phae.proj.126.P

Cl-Dk	1st Defl-Dk	2nd Defl-Dk	Red. Defl.		Mag.	L. No. Pole	
730	430	–	589	–			
738	559	–	758	–			
759	345	–	455	–	6.75	1208 ✓	
730	565	545	772	746	8.36, 8.28	..	too faint
723	410	–	568	–	7.28	1171 ✓	
710	500	478	702	671	8.06, 7.93	27	
713	463	–	650	–	7.71	2N ✓	
750	219	–	282	–	5.94	1214 ✓	
760	520	–	685	–	7.90	1201 ✓	
729	504	493	691	674	8.00, 7.83	24	
725	425	–	586	–	7.37	642 ✓	
723	440	–	609	–	7.49	1166 ✓	
708	478	473	672	666	7.87, 7.82	23	
725	525	–	725	–	8.11	664 ✓	
730	486	–	666	–	7.79	1176 ✓	
715	455	450	634	628	7.78, 7.74	a	
718	494	478	685	665	7.98, 7.90	b	
719	424	407	589	565	7.56, 7.47	c	
721	506	–	702	–	8.00	664 ✓	
716	226	221	315	308	6.20, 6.17	22	
703	355	345	503	491	7.21, 7.14	23	
717	297	293	413	409	6.73, 6.71	21	
730	395	–	541	–	7.15	1104 ✓	
724	410	–	567	–	7.27	1109 ✓	
710	520	–	723	–	8.10	765 ✓	
712	327	317	457	444	6.98, 6.91	19	
719	100	–	139	–	5.15	660	
698	18	–	26	–			
695	46	–	66	–			
718	99	–	138	–			

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MRD Jan 22nd 29 RH 649, Modowry

Strip	Class	Star	y	x	Defe	Defl	Ce	Dk
	p	7	—	—	640	—	940	210
	p	8	—	—	774	—	953	215
20.0	p	45	2010	205	565	—	979	220
	f	✓54	2001	410	790	770	955	225
	p	46	1996	460	640	—	953	230
	f	✓55	2004	561	735	713	945	235
	p	47	2010	630	700	—	950	237
20.2	fe	47a	2021	111	449	—	980	230
	fe	48	2030	151	750	—	990	230
	f	✓56	2020	258	735	724	960	231
	fe	49	2019	1001	655	—	955	230
20.4	fe	50	2050	299	670	—	953	230
	f	✓57	2040	656	710	705	940	232
	fe	51	2050	979	760	—	960	235
20.6	fe	52	2070	191	720	—	964	234
	f	✓58	2057	1031	690	685	950	235
	f	✓59	2059	1043	730	714	954	236
	f	✓60	2076	1065	657	640	952	233
	fe	53	2077	1187	740	—	955	234
	f	✓61	2070	1217	460	455	950	234
20.8	f	✓62	2077	675	690	680	938	235
	f	✓63	2090	1004	530	526	950	233
21.0	fe	54	2100	150	630	—	965	235
	fe	55	2100	414	640	—	954	230
	fe	56	2105	800	750	—	940	230
	f	✓64	2098	939	560	550	945	233
	fe	57	2106	1200	330	—	949	230
	p	14	1879	541	250	—	930	232
	p	1	2239	631	276	—	925	230
	p	2	2057	289	334	—	953	235

✓ set slightly lower

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Cl-Dk	1st Defl-Dk	2nd Defl-Dk	Red. Defl.	
707	177	–	251	–
702	192	–	274	–
705	274	–	389	–
714	385	–	540	–
710	423	–	597	–
714	554	–	773	–

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Cl
		15	1879	642	224	–	928	212	7
		1	2239	703	248	–	920	213	7
		2	2058	360	284	–	950	210	7
		3	–	–	324	–	921	202	7
		4	–	–	338	–	908	202	7
		5	–	–	420	–	920	206	7
		6	–	–	558	–	932	208	7
		7	–	–	588	–	928	210	7
		8	–	–	751	–	927	213	7
21.2	f	✓65	2119	518	546	542	932	213	7
	p	58	2120	1132	648	–	933	213	7
21.4	f	✓66	2155	405	492	480	942	214	7
	f	✓67	2138	553	472	465	945	218	7
	f	✓68	2140	581	690	669	950	217	7
	p	59	2134	780	920	–	938	218	7
	p	60	2137	1021	629	–	930	217	7
21.6	f	✓69	2161	293	669	652	960	219	7
	f	✓70	2264	1048	649	630	927	219	7
	p	61	2160	1202	702	–	930	219	7
	f	✓71	2164	1235	600	590	930	218	7
	f	✓72	2170	1291	347	342	943	218	7
21.8	f	✓73	2180	337	293	290	960	218	7

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MRD Jan 22nd '29 RH 649, No down

Strip	Class	Star	y	x	Defe	Defe	Cl	Dk
	p	3	—	—	410	—	940	233
	p	4	—	—	427	—	937	235
	p	5	—	—	510	—	941	236
	p	6	—	—	620	—	949	235
	p	7	—	—	653	—	940	230
	p	8	—	—	787	—	950	233

CHP January 23, 1929. RH 649, Numbers down

Cl-Dk	Def-Dk	Dk.	Red.	diff	Mag.	L. No. Pole
716	12	–	17	–		
707	35	–	50	–		
740	74	–	100	–		
719	122	–	170	–		
706	136	–	193	–		
714	214	–	300	–		
724	350	–	457	–		
718	378	–	526	–		
714	538	–	755	–		
719	333	329	464	458	7.30, 7.28 ~~7.14, 7.12~~	20
720	435	–	605	–	7.72 ~~8.22~~	681 + 679
728	278	266	388	365	6.92, 6.85 ~~6.82, 6.73~~	17 k
727	254	247	349	340	6.76, 6.71 ~~6.64, 6.63~~	18
733	473	452	642	615	8.05, 7.95 ~~7.81, 7.45~~	e
720	702	–	975	–	–	~~778~~
713	412	–	577	–	7.59	713
741	450	433	606	582	7.91, ~~7.73, 7.62~~	f
708	430	411	606	580	7.80, 7.79 ~~7.73, 7.61~~	g
711	483	–	680	–	8.02	681
712	382	372	537	52	7.62, 7.55 ~~7.43, 7.38~~	h
725	129	124	178	171	5.87, 5.83	16
742	75	72	101	97	5.30, 5.26	17

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RH649

Trip	Class		Star	y	x	Defl	Defl	Cl	Dk	
21.8	p		62	2182	962	676	-	922	219	
	f	✓	74	2192	1262	320	322	931	219	
22.0	f	✓	75	2200	754	324	316	924	217	
	f	✓	76	2195	760	692	679	924	220	
	p		63	2200	1244	682	-	931	220	
22.2	p		64	2229	645	692	-	938	223	
22.4	p		65	2240	269	695	-	968	222	
22.6	f	✓	77	2272	400	387	382	945	223	
22.8	p		66	2280	422	597	-	954	227	
	f	✓	78	2278	668	696	670	940	224	
	f	✓	79	2290	742	650	624	924	227	
	f	✓	80	2295	1082	550	535	922	226	
	f	✓	81	2290	1102	700	682	928	227	
23.0	f	✓	82	2314	433	299	290	950	224	
	f	✓	83	2389	684	494	484	934	224	
	p		67	2322	688	620	-	929	226	
	p		68	2300	910	503	-	917	227	
23.2	p		69	2320	384	558	-	944	226	
	p		70	2328	412	470	-	950	227	
	f	✓	84	2331	460	641	632	950	229	
	p		71	2324	952	642	-	890	229	volt down
	f	✓	85	2315	1037	433	426	908	229	
	f	✓	86	2320	1044	600	569	902	230	
23.6	f	✓	87	2367	732	554	569	914	233	
23.8	f	✓	88	2378	418	651	670	950	230	—
24.0	p		72	2412	637	590	-	930	233	
	p		73	2399	790	664	-	910	234	
	f	✓	89	2398	926	648	639	922	234	
	f	✓	90	2398	1091	632	620	916	236	
24.2	f	✓	91	2421	752	514	488	926	236	

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RH 649

α-Dk	δ-Dk		Red	defl.	Mag	L. No. Pole P No. field
703	457	–	650	–	7.90	748
712	101	103	142	144	5.63, 5.65	15
707	107	99	151	140	5.72, 5.63	14
704	472	459	670	651	8.16, 8.09 ~~7.49, 7.41~~	..
711	462	–	649	–	7.90	683
715	469	–	656	–	7.93	948
746	473	–	635	–	7.84	1110
722	164	159	227	220	6.16, 6.10	13
727	370	–	510	–	7.33	1044
716	472	446	660	624	8.12, 7.98 ~~7.44, 7.19~~	l
697	423	397	608	570	7.91, 7.75 ~~7.73, 7.57~~	12
696	324	309	465	445	7.30, 7.24 ~~7.14, 7.07~~	11
701	473	455	673	649	8.16, 8.08 ~~8.00, 7.90~~	..
726	75	66	103	91	5.33, 5.20	10
710	270	260	381	368	6.92, 6.86 ~~6.79, 6.74~~	9
703	394	–	561	–	7.53	907
690	276	–	400	–	6.88	805
718	332	–	464	–	7.14	1043
723	243	–	336	–	6.62	1030
721	412	403	570	559	7.75, 7.71 ~~7.57, 7.53~~	m
661	413	–	625	–	7.80	790
679	204	197	301	290	6.54, 6.49 ~~6.44, 6.44~~	7
672	370	339	551	506	7.68, 7.48 ~~7.50, 7.31~~	6
681	336	321	493	470	7.43, 7.34 ~~7.26, 7.17~~	5
720	440	421	611	584	7.93, 7.80 ~~7.74, 7.63~~	m
697	357	–	512	–	7.33	926
676	430	–	636	–	7.85	880
688	414	405	601	588	7.89, 7.83 ~~7.70, 7.65~~	4
680	396	384	582	563	7.79, 7.74 ~~7.66, 7.54~~	o
690	278	252	405	366	7.05, 6.85 ~~6.90, 6.73~~	3

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RH649

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Cl
24.2	p	74	2419	757	722	–	917	236	68
24.4	f ✓	92	2446	870	632	620	908	237	67
	p	75	2447	967	602	–	927	237	69
24.6	p	76	2460	526	472	–	940	238	70
	f ✓	93	2521	816	659	642	~~865~~ 910	238	67
		1s	–	–	247	–	935	237	69
		1	–	–	266	–	923	237	68
		2	–	–	300	–	947	238	70
		3	–	–	352	–	939	238	70
		4	–	–	360	–	917	234	68
		5	–	–	436	–	923	237	68
		6	–	–	560	–	927	237	69
		7	–	–	598	–	930	234	69
		8	–	–	748		928	238	69

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RH649

Cl-Dk	Def	-Dk	Red. defl		Mag.	L. No. Pole
681	486	–	714	–	8.17	892
671	395	383	587	570	7.82, 7.75 / ~~7.64, 7.66~~	P
690	365	–	530	–	7.41	809
702	234	–	334	–	6.61	960
672	421	404	622	601	7.97, 7.89	1
698	10	–	14	–		
686	29	–	42	–		
709	62	–	88	–		
701	114	–	163	–		
683	126	–	185	–		
686	199	–	290	–		
690	323	–	468	–		
696	364	–	524	–		
690	510	–	739	–		

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RH 805 Pole only

CHP

February 4, 1929 7.10 a.m.

Strip	Star	Number up y	x	Defl	Cl	Dk	Cl − Dk	Df − Dk	
	1s	1847	809	442	1090	189	901	253	281
	1	1763	454	602	1095	189	906	413	
	2	–	–	651	1080	191	889	460	
	3	–	–	738	1090	191	899	547	
	4	–	–	768	1099	192	907	576	
	5	–	–	834	1088	193	895	641	
	6	–	–	910	1108	193	915	717	
	7	–	–	922	1100	193	907	729	
	8	–	–	974	1104	196	908	778	
	9	–	–	1052	1097	197	900	855	
13.6	1	1369	760	898	1096	200	896	698	
	2	1364	845	711	1092	198	894	513	
	3	1367	891	928	1082	199	883	730	
14.4	4	1439	497	891	1095	200	895	691	
14.6	5	1458	820	868	1074	197	877	671	
	6	1461	480	841	1084	198	886	643	
14.8	7	1489	520	921	1094	199	895	722	
	8	1485	1040	906	1089	200	889	706	
15.2	9	1516	315	749	1100	200	900	549	
	10	1529	750	938	1083	201	882	737	
	11	1516	1087	883	1089	201	888	632	
15.4	12	1547	868	874	1093	202	891	672	
15.6	13	1562	850	847	1092	203	889	644	
15.8	14	1579	850	930	1090	204	886	726	
16.0	15	1608	884	843	1099	205	894	638	
16.2	16	1618	661	unmeasurable			–	–	
	17	1630	987	712	1100	202	898	510	
16.4	18	1638	817	953	1100	206	894	747	
16.8	19	1692	1092	956	1091	205	886	751	
17.0	20	1699	741	914	1090	207	883	707	

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Rad. Def.	Mag. Class.	L. No.
281		
456		
518		
608		
635		
716		
784		
804		
856		
950		
~~777~~ ~~740~~	707	1104
574	563	1214
826	777	1235
772	702	1043
766	696	1208
726	700	1030
807	758	1044
792	723	23
610	586	960
834	795	1166
710	649	51
751	682	1242 51
716	652	1248 2
816	757	1246
711	649	1279
—	—	—
567	557	56
833	796	926
849	828	118
799	732	1171

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Strip	Star	y	x	Defl	Cl	Dk	Cl - Dk	Def - Dk	R
17.0	21 ✓	1695	937	904	1097	207	890	697	
17.6	22 ✓	1765	452	611	1092	206	886	405	
18.0	23 ✓	1800	1209	807	1101	207	894	600	
18.4	24 ✓	1849	168	886	1091	207	884	679	
	25	1837	1340	928	1096	209	887	719	
18.8	26 ✓	1874	1057	798	1101	209	892	589	
19.2	27 ✓	1930	161	924	1098	211	887	713	
	28 ✓	1931	319	881	1080	210	870	671	
	29 ✓	1921	1155	870	1094	211	883	659	
	30 ✓	1920	1316	700	1104	212	892	488	
	31 ✓	1929	1358	788	1106	211	895	577	
20.0	32 ✓	2010	774	921	1099	217	882	704	
	33 ✓	2006	1097	861	1087	216	871	545	
20.2	34	2034	1111	833	1089	214	875	619	
20.4	35 ✓	2055	640	847	1100	218	882	629	
20.8	36 ✓	2080	680	929	1100	219	881	710	
	37 ✓	2091	912	859	1099	220	879	639	
	38	2081	1139	939	1099	220	879	719	
	39 ✓	2086	1271	871	1091	220	871	651	
21.0	40 ✓	2100	429	948	1100	220	880	728	
21.4	41 ✓	2152	577	839	1094	220	874	619	
21.8	42 ✓	2190	517	904	1100	220	880	684	
22.0	43 ✓	2209	400	957	1109	221	888	736	
22.2	44 ✓	2230	552	830	1109	220	889	610	
22.4	45 ✓	2251	600	unmeasurable - flaw in glass					
22.6	46 ✓	2276	215	810	1104	220	884	590	
	47 ✓	2260	639	900	1109	222	887	678	
23.0	48 ✓	2301	900	931	1099	221	878	710	
23.2	49 ✓	2320	1002	890	1099	224	875	666	
23.4	50 ✓	2339	361	508	1100	222	878	336	

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1929phae.proj.126.tif

Red. Decl.	Magnitude	L. No.
780	710	62 ✓
457	below line on curve	903 = (1)
668	619	183 ✓
767	697	844 ✓
818	763	206 ✓
660	614	205 ✓
804	740	809 ✓
770	700	805 ✓
747	677	240 ✓
548	544	239 ✓
643	604	242 ✓
799	731	(6) ✓
623	592	279 ✓
776	705	—
712	650	25 = 627 ✓
804	740	(7) = 572 ✓
729	661	376 ✓
817	762	—
747	678	297 ✓
826	779	713 ✓
706	647	625 ✓
776	706	642 ✓
828	784	679 ✓
687	630	606 ✓
6—		587 ✓
667	618	699 ✓
765	695	570 ✓
808	746	451 ✓
762	693	420 ✓
383—	below line on curve	659 ✓

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1929phae.proj.126.P

Strip	Star	y	x	Dyl	Cl	Dk	Cl-Dk	Dy-Dk
	51	2349	394	931	1111	223	888	708
	52	2353	1008	762	1093	227	866	436
23.8	53	2387	692	940	1082	226	856	714
	54	2395	864	769	1094	228	866	541
24.0	55	2401	702	712	1086	230	856	482
	56	2409	926	932	1091	230	861	702
24.2	57	2432	752	921	1109	230	879	691
24.8	58	2487	807	940	1091	230	861	710
25.0	59	2515	942	841	1100	230	870	611
25.2	60	2519	842	851	1089	230	859	621
25.4	61	2558	686	631	1109	228	881	403
	62	2540	897	941	1097	230	867	711
25.6	63	2571	835	858	1085	235	850	623
	10	1847	906	429	1004	221	(783)	208
	1	1763	551	570	1070	220	850	350
	2	—	—	653	1061	225	836	428
	3	—	—	682	1070	240	830	442
	4	—	—	732	1073	232	841	500
	5	—	—	808	1070	222	848	586
	6	—	—	890	1080	227	853	663
	7	—	—	918	1083	230	853	688
	8	—	—	950	1084	238	846	712

plate finished

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1929phae.proj.126aP

Red. Defl.	Magnitude	L. No.
796	727	647 ✓
563	below line on curve	426 ✓
832	794	541 ✓
623	593	474 ✓
562	553	536 ✓
802	736	457 ✓
788	718	523 ✓
823	774	509 ✓
700	640	464 ✓
723	659	498 ✓
457	below line	540 ✓
820	768	—
732	664	502 ✓
255		
412		
514		
532		
595		
691		
778		
809		
842		

The measures on this plate are rejected for irregular voltage and unusual reduction curve and large discrepancy with all other measures.

The plate is to be remeasured

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1929phae.proj.126.P

FMC RH 1012, Feb 21st; No 2 up

Strip	Class	Star	Y	X	Defc	Defc	Dl	Dk	
		1s	1901	760	310	—	1144	140	
		1	1679	471	450	—	1151	140	
		2	—	—	560	—	1148	141	
		3	—	—	649	—	1147	144	
		4	—	—	640	—	1148	148	
		5	—	—	751	—	1154	150	
		6	—	—	861	—	1149	150	
		7	—	—	885	—	1150	151	
		8	—	—	1026	—	1164	154	
13.6	f	1	1375	760	1010	1010	1175	158	5.41
13.8	fp	1	1396	451	724	—	1140	160	
	fp	2	1384	790	947	—	1165	160	
	fp	3	1382	866	828	—	1152	160	
14.0	fp	4	1402	650	831	—	1161	160	
	fp	5	1409	717	1021	—	1160	160	
	fp	6	1404	846	1010	—	1154	160	
	f	2	1413	939	980	972	1160	160	
14.2	fp	7	1430	351	1002	—	1138	159	
	fp	8	1434	582	979	—	1157	161	
	fp	9	1418	626	760	—	1160	164	
14.4	f	3	1454	490	950	951	1146	166	
	f	4	1440	714	921	922	1141	169	
	fp	10	1451	919	875	—	1162	169	
14.6	fp	11	1469	338	950	—	1140	168	
	f	12	1466	400	995	—	1142	170	
	f	5	1472	496	612	612	1156	169	
	fp	13	1459	650	910	—	1150	170	
14.8	f	6	1489	806	891	880	1162	170	
	fp	14	1484	999	665	—	1171	170	
15.0	fp	15	1517	260	980	—	1132	168	

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1929phae.proj.126:P

Cl — Dk	1st Defl.-Dk.	2nd Defl. Dk.	Red'd	Red'd.	Mag.	L. No
1004	170	—	1 169	—		
1011	310	—	306	—		
1007	419	—	2 416	—		
10·03	505	—	3 503	—		
1000	492	—	4 492	—		
1004	601	—	5 597	—		
999	711	—	6 712	—		
999	734	—	7 735	—		
1010	872	—	8 863	—		
1017	852	852	838	838		
980	564	—	575	—		960
1005	787	—	783	—		1110
992	668	—	674	—		1141
1001	671	—	670	—		1043
1000	861	—	861	—		
994	850	—	855	—		
1006	820	812	820	812		
979	843	—	860	—		921
996	818	—	820	—		
996	596	—	599	—		1030
980	784	786	799	800		
972	752	753	773	774		
993	706	—	712	—		
972	782	—	805	—		
972	825	—	850	—		
987	443	443	447	447		
986	740	—	755	—		1044
992	720	710	725 494	715		
1001	496	—	496	—		1214
964	812	—	842	—		

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1929phae.proj.126.P

FMC RH 1012, Feb 21st, No 2

Strip	Class	Star	y	x	Diff	Diff	cl	Dk	Volt
15.0	f	16	1507	401	860	—	1129	170	5.40
	f	17	1505	905	990	—	1155	171	
	f	18	1510	963	988	—	1159	170	
	f	19	1505	1040	920	—	1159	171	
15.2	f	20	1532	374	1021	—	1130	170	
	f	7	1519	532	918	910	1132	172	
	f	8	1520	661	739	740	1144	170	
	f	21	1525	728	1015	—	1137	171	
	f	9	1530	780	1020	1020	1135	171	
15.4	f	10	1548	706	940	940	1142	172	5.39
15.6	f	11	1570	659	1010	1010	1120	174	
15.8	f	22	1582	311	959	—	1129	171	
	f	12	1584	569	960	960	1124	173	
	f	23	1590	841	910	—	1127	172	
	f	13	1590	1100	780	780	1151	172	
		15	1901	760	341	—	1121	171	
		1	1679	471	481	—	1130	172	
		2	—	—	590	—	1123	170	
		3	—	—	674	—	1121	170	
		4	—	—	660	—	1122	170	
		5	—	—	770	—	1130	170	
		6	—	—	851	—	1119	172	
		7	—	—	872	—	1122	173	
		8	—	—	1000	—	1137	175	5.38

W. J. P. – P H 1012 – Feb 21, 1929

	10	1480	760	360	—	1113	208	5.15
	1	1679	472	492	—	1139	205	
	2	—	—	600	—	1141	208	
	3	—	—	690	—	1142	210	
	4	—	—	680	—	1150	215	

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1929phae.proj.126P

Cl-Dk	1st Defl.-Dk	2nd Defl.-Dk.	Red'd	Red'd	Mag.	L. NO.
959	690	—	720	—		926
984	819	—	831	—		1176
989	818	—	828	—		1201 ?
988	749	—	757	—		1235
960	851	—	886	—		
960	746	738	777	769		
974	569	570	584	585		
966	844	—	871	—		
964	849	849	880	880		
970	768	768	791	791		
946	836	836	884	884		
958	788	—	823	—		892
951	787	787	827	827		
955	738	—	772	—		1166
979	608	608	622	622		
950	170	—	1A 179	—		
958	309	—	1 360	—	9?	
953	420	—	2 440	—		
951	504	—	3 530	—		
952	490	—	4 515	—		
960	600	—	5 625	—		
947	679	—	6 716	—		
949	699	—	7 739	—		
962	825	—	8 857	—		
905	152	—	168	—		
934	287	—	307	—		
933	392	—	420	—		
932	480	—	515	—		
935	465	—	497	—		

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1929phae.proj.126.P

H.J.P. – R.H. 1012 – Feb. 21, 1929.

Strip	Class	Star	y	x	Dyff	Dxff	cl	Dk	Note
		5	—	—	790	—	1160	210	
		6	—	—	873	—	1142	208	
		7	—	—	891	—	1143	211	
		8	—	—	1030	—	1156	210	
16.0	p.	24	1607	428	920	—	1151	212	
	p	14	1623	492	626	626	1130	210	
	p	15	1601	459	920	912	1129	210	
	p	16	1611	794	970	970	1152	218	
16.2	p (2)	17	1627	197	690	690	1152	210	
	p (1)	25	1635	179	810	—	1154	218	
	p (3)	18	1621	288	928	924	1162	219	
	p	26	1620	301	970	—	1162	212	
	p	19	1628	592	865	865	1149	205	
	p	27	1632	723	900	—	1148	211	
	p	20	1632	960	771	770	1168	210	
16.4	p	28	1649	521	970	—	1145	202	
	p	21	1651	690	842	840	1120	185	
	p	22	1655	697	950	945	1118	182	
	p	29	1650	1080	930	—	1140	182	
16.6	p	30	1670	191	943	—	1130	182	
	p	23	1656	402	950	945	1117	180	
	p	24	1661	639	972	965	1121	182	
	p	25	1672	802	699	691	1130	182	
	p	31	1665	919	770	—	1128	182	
	p	32	1659	941	840	—	1132	186	
	p	33	1672	1124	876	—	1119	183	
16.8	p	26	1675	880	870	862	1128	186	
	p	34	1689	819	955	—	1115	189	
	p	35	1679	912	875	—	1115	189	
17.0	p	36	1703	140	810	—	1118	185	

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1929phae.proj.126dP

Q.-Dk.	Defl.-Dk.	Defl.-Dk	Reduced	Reduced	Mag.	L. NO.
950	580	—	610	—		
934	665	—	711	—		
932	680	—	730	—		
946	820	—	866	—		
939	708	—	755	—	7.55	907
920	416	416	452	452	5.46, 5.46	
919	710	702	773	764	7.70, 7.61	
904	752	758	832	838	8.16, 8.21	
942	480	480	510	510	5.85, 5.85	
936	592	—	632	—	6.62	844
943	709	705	751	747	7.51, 7.48	
950	758	—	798	—	7.89	880
944	660	660	700	700	7.12, 7.12	
937	689	—	734	—	7.39	1109
958	561	560	586	585	6.33, 6.33	
943	768	—	815	—	8.04	948
935	657	655	703	700	7.14, 7.12	
936	768	763	820	815	8.07, 8.04	
958	748	—	780	—	7.77	8
948	761	—	804	—	7.95	
937	770	765	820	815	8.07, 8.04	
939	790	783	840	833	8.23, 8.18	
938	517	509	553	545	6.12, 6.05	
938	588	—	628	—	6.59	1242
946	654	—	690	—	7.05	1251
936	693	—	740	—	7.43	23
914	684	676	749	740	7.49, 7.43	
926	766	—	826	—	8.11	1139
926	686	—	740	—	7.43	1246
933	625	—	670	—	6.90	809

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1929phae.proj.126:P

H. J. O. – R.H. 1012 – Feb. 21, 1929

Trip	Class	Star	y	x	Dyl	Dyll	Cl.	Dk.	Note
	l	27	1699	740	762	760	1110	184	
17.2	l	28	1731	393	952	950	1118	189	
	p	37	1720	931	990	—	1170	191	
	l	29	1712	930	912	910	1115	190	
	l	30	1723	1018	705	700	1122	190	
	p	38	1720	152	790	—	1100	190	
17.4	p	39	1740	515	988	—	1109	188	
	p	40	1740	761	849	—	1108	190	
	p	41	1740	910	937	—	1112	188	
	l	31	1751	910	992	992	1112	188	
		1p	1900	760	339	—	1080	187	
		1	1679	472	470	—	1095	188	
		2	—	—	560	—	1090	188	
		3	—	—	639	—	1092	189	
		4	—	—	639	—	1090	188	
		5	—	—	740	—	1100	188	
		6	—	—	832	—	1088	190	
		7	—	—	852	—	1095	191	
		8	—	—	980	—	1100	190	5.13
F.M.C. Feb. 22, 1929		1S	1900	828	319	—	1149	160	5.44
RH 1012		1	1679	540	463	—	1161	159	
		2	—	—	555	—	1141	160	
		3	—	—	640	—	1140	161	
		4	—	—	640	—	1147	162	
		5	—	—	740	—	1150	161	
		6	—	—	860	—	1140	162	
		7	—	—	885	—	1148	165	
		8	—	—	1016	—	1156	163	
17.6	lp	42	1772	348	810	—	1165	166	
	lf	32	1773	381	758	760	1130	162	

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1929phae.proj.1264P

U.-Dk	1st Defl.-Dk	2nd Defl.-Dk	Reduced	Reduced	Mag.	L. No
926	578	576	625	623	6.56, 6.55	
927	763	761	823	821	8.09, 8.07	
929	799	—	860	—	8.40	1279
925	722	720	780	778	7.77, 7.75	
932	515	510	553	547	6.12, 6.08	
910	600	—	660	—	6.80	
924	800	—	870	—	8.49	
918	659	—	718	—	7.27	1171
924	749	—	810	—	7.99	
924	804	804	870	870	8.49, 8.49	
893	152	—	170	—		
907	282	—	311	—		
902	372	—	413	—		
903	450	—	500	—		
902	451	—	500	—		
912	552	—	605	—		
898	642	—	715	—		
904	661	—	731	—		
910	790	—	870	—		
989	159	—	161	—		
1002	304	—	305	—		
981	395	—	403	—		
979	479	—	490	—		
985	478	—	486	—		
989	579	—	585	—		
978	698	—	713	—		
983	720	—	733	—		
983	853	—	867	—		
999	644		645	—	6.75	805
968	596	598	616	618	6.60, 6.61	

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1929phae.proj.126.P

FMC RH 1012 Feb. 22, 1929

Temp	class	star	y	x	Defl	Defl	cl	Dh	Volt
17.6	f	33	1771	636	655	655	1153	168	
	f	34	1768	1066	900	900	1167	169	5.42
	f	35	1774	1112	1000	1001	1172	169	
17.8	f	43	1783	209	945	—	1160	168	
	f	44	1785	300	930	—	1151	166	
	f	36	1781	410	871	869	1171	170	
	f	37	1787	768	960	960	1154	169	
	f	45	1784	1081	640	—	1155	169	
	f	38	1791	1290	705	705	1180	168	
	f	39	1778	1310	800	800	1187	167	
18.0	f	40	1808	293	915	915	1150	167	
	f	46	1808	621	1014	—	1151	169	
	f	41	1809	736	990	990	1158	169	
18.2	f	42	1828	721	794	794	1162	174	5.40
	f	47	1820	1009	865	—	1165	179	
18.4	f	48	1850	206	998	—	1150	175	
	f	49	1843	694	951	—	1153	174	
	f	43	1849	1006	875	875	1137	180	
18.6	f	44	1874	164	1001	1001	1160	180	
	f	50	1866	350	1015	—	1160	180	
18.8	f	51	1898	390	988	—	1162	181	
	f	52	1890	505	1010	—	1150	181	
	f	53	1886	1050	971	—	1161	180	
19.0	f	45	1900	780	921	921	1161	182	
19.2	f	46	1925	991	660	660	1164	188	
	f	54	1930	1146	972	—	1153	187	
	f	47	1918	1221	880	880	1152	185	5.39
	f	55	1921	1329	1010	—	1177	182	
19.4	f	48	1958	205	850	850	1148	181	
	f	49	1951	409	1010	1010	1149	188	

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1929phae.proj.126dP

Cl-Dk	Defl-Dk 1st	Defl-Dk 2nd	Reduced	Reduced	Mag.	L.No
985	487	487	495	495	5.85, 5.85	
998	731	731	733	733	7.35, 7.35	
1003	831	832	827	828	8.06, 8.06	
992	777	—	784	—	7.74	
985	764	—	775	—	7.65	790
1001	701	699	700	698	7.10, 7.09	
985	791	791	803	803	7.87, 7.87	
986	471	—	477	—	5.74	56
1012	537	537	531	531	6.08, 6.08	
1020	633	633	621	621	6.62, 6.62	
983	748	748	762	762	7.55, 7.55	
982	845	—	860	—	8.31	2035
989	821	821	831	831	8.08, 8.08	
988	620	620	627	627	6.65, 6.65	
986	686	—	696	—	7.07	62
975	823	—	844	—	8.19	758
979	777	—	795	—	7.69	2N
957	695	695	725	725	7.28, 7.28	
986	821	821	839	839	8.15, 8.15	
980	835	—	850	—	8.24	
981	807	—	823	—	8.03	748
969	829	—	855	—	8.28	765
981	791	—	806	—	7.90	
979	739	739	755	755	7.50, 7.50	
976	472	472	483	483	5.77, 5.77	
966	785	—	812	—	7.94	
967	695	695	719	719	7.25, 7.25	
995	828	—	832	—	8.09	135
967	669	669	691	691	7.03, 7.03	
961	822	822	855	855	8.25, 8.25	

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1929phae.proj.126.P

F.M.C. Feb. 22, 1929 RH 1012 Two eyes.

Strips	Class	star	y	x	Defl	Defl	d	Dk	
19.4	f	50	1942	434	810	805	1141	180	
	fp	56	1942	1030	1005	—	1143	180	
	f	51	1953	1146	998	998	1151	180	
19.6	fp	57	1970	377	904	—	1134	180	
	f	52	1960	560	740	740	1114	181	
	f	53	1962	740	940	940	1128	185	
19.8	f	54	1991	577	1010	1010	1119	181	
20.0	f	55	1999	1199	940	935	1158	185	
	f		1990	1381	999	999	1179	188	outside circle
20.2	f	56	2024	263	903	903	1146	190	
	fp	58	2020	342	997	—	1151	190	
	fp	59	2019	585	763	—	1130	190	
	fp	60	2034	1040	750	—	1149	191	
	fp	61	2030	1210	777	—	1160	192	
20.4	f	57	2044	264	1010	1010	1149	191	
	fp	62	2057	303	911	—	1139	190	
	fp	63	2051	414	981	—	1137	190	
	f	58	2050	550	901	901	1130	190	
20.6	fp	64	2075	170	940	—	1145	197	
	fp	65	2073	228	943	—	1139	192	
	fp	66	2070	541	956	—	1130	190	
	f	59	2071	770	918	918	1130	192	
	f	60	2059	900	965	965	1140	191	
20.8	fp	67	2090	419	870	—	1132	189	
	fp	68	2081	490	770	—	1122	191	
	f	61	2080	931	1015	1015	1130	191	
	f	62	2088	1068	830	860	1140	191	
21.0	f	63	2112	820	970	971	1130	190	
21.2	f	64	2120	165	862	862	1145	191	
	fp	69	2119	1110	840	—	1135	191	

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1929phae.proj.126dP

Cl.-Dk	1st Defl.-Dk	2nd Defl.-Dk	Reduced	Reduced	Mag.	L. No
961	630	625	655	650	6.81, 6.79	
963	825	—	855	—	8.25, ~~8.25~~	
971	818	818	842	842	8.17, 8.17	
954	724	—	759	—	7.52	763
933	559	559	599	599	6.50, 6.50	
943	755	755	800	800	7.85, 7.85	
938	829	829	883	883	8.49, 8.49	
973	756	750	775	770	7.65, 7.62	
956	713	713	745	745	7.45, 7.45	
961	807	—	840	—	8.15	688
940	573	—	609	—	6.56	24?
958	559	—	584	—	6.44	205
968	585	—	605	—	6.55	183
958	819	819	854	854	8.26, 8.26	
949	721	—	760	—	7.54	679
947	791	—	835	—	8.11	664
940	711	711	756	756	7.51, 7.51	
948	743	—	783	—	7.73	683
947	751	—	794	—	7.80	681
940	766	—	816	—	7.96	601
938	726	726	775	775	7.65, 7.65	
949	774	774	815	815	7.95, 7.96	
943	681	—	723	—	7.27	642
931	579	—	621	—	6.62	625
939	824	824	876	876	8.44, 8.44	
949	639	669	674	705	6.93, 7.15	
940	780	781	830	831	8.09, 8.09	
954	671	671	704	704	7.14, 7.14	
944	649	—	687	—	7.00	240

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1929phae.proj.126:P

Mc. Feb. 22, 1929 RH 1012

Grp	class	star	y	x	Dfl	Dfl	cl	Dh	Volt	C
21.2		70	2120	1315	930	—	1149	191		
21.4		71	2141	436	780	—	1127	190		
		72	2139	1009	970	—	1125	192		
21.6		73	2160	212	448	—	1126	190		
		74	2170	244	930	—	1120	190		
		65	2169	675	830	830	1128	190		
		75	2170	820	780	—	1130	190	5.30	
		66	2170	880	920	921	1120	189		
		67	2164	919	980	980	1120	191		
		68	2170	943	975	975	1111	190		
		76	2170	1021	780	—	1120	192		
21.8		69	2185	239	620	620	1132	190		
		77	2179	469	894	—	1124	191		
		78	2180	888	920	—	1105	192		
		79	2192	1131	931	—	1119	190		
		80	2186	1257	622	—	1129	191		
		1S	1900	828	940	—	1096	190		
		1	1679	540	464	—	1100	182		
		2	—	—	556	—	1098	186		
		3	—	—	634	—	1100	181		
		4	—	—	640	—	1090	182		
		5	—	—	740	—	1102	180		
		6	—	—	834	—	1090	180		
		7	—	—	860	—	1093	180		
		8	—	—	970	—	1104	180	5.21	

H. J. P. RH 1012 — Feb 22, 1929

	10	1923	809	350	—	1120	181	5.20
	1	1679	540	480	—	1158	190	
	2	—	—	600	—	1162	200	
	3	—	—	690	—		200	

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1929phae.proj.1264P

Cl.–Dk.	1st Defl.-Dk	2nd Defl.-Dk.	Reduced	Reduced	Mag.	L. NO.
958	739	—	770	—	7.63	206?
937	590	—	630	—	6.67	606
933	778	—	835	—	8.11	274
936	258	—	276	—	4.10	659
930	740	—	795	—	7.81	647
938	640	640	680	680	6.96, 6.96	
940	690	—	735	—	7.35	376
931	731	732	785	786	7.75, 7.75	
929	789	789	849	849	8.23, 8.23	
921	785	785	850	850	8.26, 8.26	
928	588	—	634	—	6.69	279
942	436	430	456	456	5.59, 5.59	
933	703	—	753	—	7.49	587
913	728	—	798	—	7.85	338
929	741	—	797	—	7.85	264
938	431	—	459	—	5.61	239?
906	156	—	10 165	—		
918	282	—	1 307	—		
912	370	—	2 406	—		
919	453	—	3 493	—		
908	458	—	4 505	—		
922	560	—	5 607	—		
910	654	—	6 719	—		
913	680	—	7 745	—		
924	790	—	8 855	—		
939	169	—	10 180	—		
968	290	—	1 300	—		
962	408	—	2 415	—		
	490	—	(502)	—		

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1929phae.proj.126:P

RH1012

Strip	class	star	y	y	Diff	Diff	cl	Dk
		4	—	—	698	—	1168	200
		5	—	—	810	—	1180	210
		6	—	—	905	—	1170	210
		7	—	—	929	—	1176	211
		8	—	—	1055	—	1180	210
22.0	p.	81	2204	+99	928	—	1180	210
	p.	82	2200	1024	797	—	1161	197
	f	70.	2208	1281	946	946	1172	192
	p.	83	2210	1292	759	—	1178	190
22.4	p	84	2242	413	1020	—	1187	195
	f	71	2241	1200	1031	1031	1168	198
22.6	f	72	2275	990	765	765	1172	200
	f	73	2272	1004	1010	1010	1180	200
	p	85	2258	1029	961	—	1162	205
22.8	f	74	2293	632	1026	1026	1170	208
23.0	p	86	2300	772	1020	—	1164	202
23.2	f	75	2332	391	982	982	1178	203
	f	76	2322	536	930	930	1170	198
	p	87	2318	1148	850	—	1161	192
23.4	p	88	2342	494	1000	—	1170	201
	f	77	2342	599	700	700	1170	202
23.6	f	78	2372	491	820	820	1180	207
	p	89	2360	499	620	—	1174	210
	f	79	2364	630	935	930	1170	202
	p	90	2358	720	950	—	1154	202
	p	91	2360	943	1030	—	1172	202
	f	80	2362	989	900	890	1160	200
23.8	f	81	2381	901	745	745	1150	200
24.0	f	82	2403	528	1002	1000	1170	200
	p	92	2410	529	954	—	1172	205

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1929phae.proj.126:P

Dec. Dk.	1st Defl. Dk.	2nd Defl. Dk.	Reduced	Reduced	Mag.	L. No.
968	498	—	515	—		
970	600	—	618	—		
960	695	—	725	—		
965	718	—	744	—		
970	845	—	870	—		
970	718	—	740	—	7.31	570
964	600	—	624	—	6.62	294
980	754	754	769	769	7.64, 7.64	
988	569	—	575	—	6.25	242
992	825	—	830	—	8.10	583
970	833	833	857	857	8.30, 8.30	
972	565	565	580	580	6.30, 6.30	
980	810	810	825	825	8.05, 8.05	
957	756	—	790	—	7.50	
962	818	818	850	850	8.25, 8.25	
962	818	—	850	—	8.25	426
975	779	779	799	799	7.86, 7.86	
972	732	732	753	753	7.53, 7.53	
969	658	—	680	—	7.00	297
969	799	—	824	—	8.04	541
968	498	498	515	515	5.90, 5.90	
973	613	613	630	630	6.65, 6.65	
964	410	—	425	—	5.34	536
968	733	728	756	751	7.55, 7.51	
952	748	—	785	—	7.75	451
970	828	—	853	—	8.27	
960	700	690	730	720	7.35, 7.30	
950	545	545	575	575	6.25, 6.25	
970	802	800	827	825	8.07, 8.05	
967	749	—	774	—	7.68	523

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1929phae.proj.126.P

RH1012

Chip	class	star	y	x	Deff	Deff	cl	Dk
	f	83	2409	539	690	685	1172	202
24.2	fp.	93	2429	658	730	—	1166	210
	p	94	2418	803	920	—	1169	210
24.4	f	84	2450	636	890	888	1164	212
	p	95	2450	792	730	—	1159	218
24.6	p	96	2461	699	998	—	1187	220
24.8	f	85	2486	893	860	852	1170	212
25.2	p	97	2528	576	876	—	1200	211
	f	86	2520	854	875	870	1175	212
	f	87	2530	876	790	790	1162	212

Plate finished

10	1903	879	372		1130	210
1	1679	540	515	—	1152	219
2	—	—	611	—	1152	220
3	—	—	690	—	1160	224
4	—	—	700	—	1160	222
5	—	—	801	—	1168	228
6	—	—	910	—	1168	228
7	—	—	915	—	1160	228
8	—	—	1045	—	1155	228

MRD RH 1011, Feb 23, 1929, No wp

1s	1910	759	288	—	1119	145
1	1679	478	500	—	1141	147
2	—	—	610	—	1148	149
3	—	—	660	—	1105	150
4	—	—	670	—	1155	150
5	—	—	735	—	1125	150
6	—	—	837	—	1146	150
7	—	—	858	—	1145	150
8	—	—	990	—	1120	152

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1929phae.proj.126aP

Cl.-Dk	1st Defl-Dk.	2nd Defl-Dk	reduced	reduced	Mag.	L.NO.
970	488	483	504	499	5.84, 5.80	
956	520	—	543	—	6.07	474
959	710	—	741	—	7.44	420?
952	678	676	713	711	7.23, 7.21	
941	512	—	543	—	6.07	426
947	778	—	805	—	7.90	457
958	648	640	677	668	6.97, 6.90	
989	665	—	672	—	6.94	498
963	663	658	689	684	7.05, 7.03	
950	578	578	609	609	6.50, 6.50	
920	162	—	10 176	—		
933	296	—	1 314	—		
932	391	—	2 419	—		
936	466	—	3 498	—		
938	478	—	4 510	—		
940	573	—	5 610	—		
940	682	—	6 727	—		
932	887	—	7 737	—		
927	817	—	8 881	—		
974	143	—	10 147	—		
994	353	—	1 355	—		
999	461	—	2 462	—		
955	570	—	3 534	—		
1005	520	—	4 517	—		
975	585	—	5 601	—		
996	687	—	6 690	—		
995	708	—	7 711	—		
965	838	—	8 ~~713~~ 855	—		

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FMC Feb 23, 1929 R.A. 10 11

Strip	Class	Star	y	x	Defl	Defl	Q	Dk
13.8	p	1	1393	467	810	—	1170	170
14.0	p	2	1408	660	889	—	1173	171
14.2	p	3	1420	639	850	—	1165	170
	f	1	1421	939	978	978	1161	170
14.4	f	2	1447	715	920	920	1161	161
14.6	p	4	1463	349	987	—	1165	160
	f	3	1460	490	960	960	1150	161
	p	5	1460	660	908	—	1150	161
	p	6	1462	930	890	—	1140	162
14.8	f	4	1479	496	660	660	1140	162
	f	5	1492	805	890	890	1142	164
15.0	p	7	1502	411	910	—	1150	168
	p	8	1515	913	966	—	1133	168
	p	9	1498	1009	691	—	1130	165
15.2	f	6	1522	531	921	921	1140	170
	f	7	1523	660	755	755	1148	170
	f	8	1529	800	750	750	1131	170
	p	10	1520	972	961	—	1137	170
	p	11	1520	1049	908	—	1133	170
15.4	f	9	1551	706	931	931	1139	170
15.6	p	12	1569	945	880	—	1120	170
15.8	f	10	1590	568	950	950	1130	174
		1A	1910	759	315	—	1091	173
		1	1679	478	505	—	1120	171
		2	—	—	612	—	1120	173
		3	—	—	662	—	1090	170
		4	—	—	672	—	1130	172
		5	—	—	740	—	1103	174
		6	—	—	838	—	1120	173
		7	—	—	850	—	1113	171
		8	—	—	970	—	1093	172

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1929phae.proj.126:P

Cl.–Dk.	1st Defl.–Dk	2nd Defl.–Dk	reduced	reduced	Mag.	L. No.
1000	640	—	640	—	670	960
1002	718	—	717	—	734	1043
995	680	—	683	—	705	1030
991	808	808	814	814	8.04, 8.04	
1000	759	759	759	759	7.65, 7.65	
1005	827	—	824	—	809	
989	799	799	807	807	7.98, 7.98	
989	747	—	756	—	762	
978	728	—	743	—	751	1044
978	498	498	509	509	5.69, 5.69	1104
978	726	726	741	741	7.50, 7.50	
982	742	—	761	—	764	926
965	798	—	824	—	813	1176
965	526	—	545	—	595	1214
970	751	751	774	774	7.74, 7.74	
978	585	585	597	597	6.37, 6.37	
961	580	580	604	604	6.45, 6.45	
967	791	—	818	—	808	1201
963	738	—	786	—	768	1235
969	761	761	785	785	7.85, 7.85	
950	710	—	747	—	755	1251
956	776	776	811	811	8.01, 8.01	
918	142	—	10 153	—		
949	334	—	1 352	—		
947	439	—	2 463	—		
920	492	—	3 535	—		
958	500	—	4 521	—		
929	566	—	5 609	—		
947	665	—	6 701	—		
942	679	—	7 720	—		
921	798	—	8 865	—		

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H. J. P. – RH 1011 – Feb. 23, 1929

Strip	Class	Star	Y	X	Defl.	Defl.	Cl.	Dk.	Volts
		10	1910	759	310	—	1110	164	5.26
		1	1679	478	498	—	1151	164	
		2	—	—	604	—	1150	166	
		3	—	—	652	—	1112	170	
		4	—	—	662	—	1162	172	
		5	—	—	740	—	1132	175	
		6	—	—	860	—	1174	185	
		7	—	—	890	—	1175	190	
		8	—	—	1030	—	1154	202	
16.0	P	13	1605	433	980	—	1198	210	
	P	11	1609	459	980	980	1189	214	
	P	14	1600	849	960	—	1179	205	
	P	12	1599	1100	800	800	1160	208	
16.2	P.	15	1628	183	879	—	1204	200	
	P	13	1632	196	730	730	1188	200	
	P	14	1629	288	940	940	1180	200	
	P	15	1620	432	660	660	1176	200	
	P	16	1632	592	875	875	1162	200	
	P	17	1620	794	960	960	1140	186	
16.4	P	16	1650	528	989	—	1160	190	
	P	17	1640	730	895	—	1155	192	
	P	18	1640	960	770	770	1155	194	
16.6	P	19	1661	402	980	980	1170	200	
	P	20	1668	638	1000	1000	1160	200	
	P	21	1659	689	867	867	1160	200	
	P	22	1660	697	979	979	1154	201	
	P	18	1670	948	870		1132	195	
16.8	P.	19	1697	143	896	—	1170	196	
	P	23	1680	570	900	900	1140	192	
	P	24	1680	802	720	720	1130	192	

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1929phae.proj.126P

Dec.-Dc	Defl.-Dl	Defl.-Dl	Reduced	Reduced	Mag.	L. No.
946	146	—	10,154	—		
987	326	—	1 337	—		
984	438	—	2 445	—		
942	482	—	3 611	—		
990	490	—	4 495	—		
957	565	—	5 590	—		
989	675	—	6 682	—		
986	700	—	7 711	—		
952	828	—	8 870	—		
988	770	—	779	—	775	907
975	766	766	785	785	7.78, 7.78	
974	755	—	776	—	773	1166
952	592	592	621	621	6.65, 6.65	
1004	679	—	675	—	755	844
988	530	530	537	537	6.00, 6.00	
980	740	740	755	755	7.59, 7.59	
976	460	460	471	471	5.44, 5.44	
962	675	675	701	701	7.24, 7.24	
954	774	774	811	811	7.95, 7.95	
976	799	—	824	—	804	948
963	703	—	729	—	742	1109
961	576	576	599	599	6.50, 6.50	
976	680	680	701	701	7.24, 7.24	
960	800	800	833	833	8.08, 8.08	
960	667	667	695	695	7.20, 7.20	
953	778	778	817	817	7.99, 7.99	
937	675	—	719	—	736	1251
994	700	—	718	—	736	809
948	708	708	744	744	7.52, 7.52	
938	528	528	563	563	6.23, 6.23	

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1929phae.proj.126.P

H. J. P. – R. A. 1011 – Feb. 23, 1929.

Strip	Class	Star	y	x	Dyll	Dyll.	Cl.	Dk	Volts.
	p.	20	1690	918	910	—	1120	198	
	p	21	1689	922	818	—	1128	196	
	p.	22	1692	1129	902	—	1126	191	
17.0	f	25	1702	739	784	784	1119	190	
	p	23	1700	822	972	—	1122	190	
17.2	f	26	1720	935	908	908	1120	198	
	p	24	1731	999	817	—	1110	194	
	f	27	1720	1018	720	720	1108	190	
17.4	p	25	1750	764	888	—	1130	190	
	p	26	1738	868	691	—	1096	190	
	p	27	1751	912	960	—	1111	190	
	p	28	1740	1157	820	—	1082	190	
17.6	p	29	1769	281	845	—	1170	199	
	f	28	1771	1000	890	890	1118	210	
17.8	p	30	1777	141	970	—	1160	208	
	p	31	1779	233	952	—	1156	208	
	f	29	1780	314	780	780	1162	215	
	f	30	1789	342	880	880	1168	220	
	f	31	1778	569	689	689	1152	220	
	f	32	1780	1046	990	990	1145	220	
	f	33	1780	1242	800	800	1140	220	
		10	1910	769	360	—	1110	220	
		1	1679	479	548	—	1148	216	
		2	+	—	640	—	1122	214	
		3	—	—	690	—	1167	214	
		4	—	—	700	—	1157	211	
		5	—	—	764	—	1125	210	
		6	—	—	860	—	1157	211	
		7	—	—	879	—	1140	211	
		8	—	—	990	—	1115	211	

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1929phae.proj.126.P

Q.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.	L. No.
937	717	—	765	—	765	1246
932	622	—	666	—	699	1242
935	711	—	760	—	762	23
929	594	594	640	640	6.79, 6.79	
932	782	—	839	—	813	8 1139
922	710	710	769	769	7.69, 7.69	
916	723	—	790	—	782	1279
918	530	530	577	577	6.33, 6.33	
940	698	—	743	—	750	1171
906	501	—	552	—	614	1248
921	770	—	836	—	810	f
892	630	—	706	—	777	51
971	646	—	665	—	699	805
908	680	680	748	748	7.54, 7.54	
952	762	—	800	—	789	
948	744	—	785	—	777	790
947	565	565	596	596	6.47, 6.47	
948	660	660	696	696	7.20, 7.20	
932	469	469	503	503	5.72, 5.72	
925	770	770	833	833	8.08, 8.08	
920	580	580	631	631	6.72, 6.72	
890	140	—	10 157	—		
932	332	—	1 356	—		
908	426	—	2 470	—		
893	476	—	3 533	—		
940	489	—	4 520	—		
915	554	—	5 605	—		
940	649	—	6 698	—		
929	668	—	7 720	—		
904	779	—	8 862	—		

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1929phae.proj.126.P

66 F.M.C. Feb. 25, 1929 R.A. 10 11

Trip	Class	Star		y	x	Diff.	Diff.	Cl.	Dk.	Note
			1s	1910	759	284	—	1141	170	5.44
			1	1679	479	464	—	1180	170	
			2	—	—	580	—	1180	175	
			3	—	—	640	—	1146	174	
			4	—	—	650	—	1190	179	
			5	—	—	740	—	1170	180	
			6	—	—	852	—	1200	181	
			7	—	—	890	—	1191	180	
			8	—	—	1005	—	1161	185	
18.0	f	34		1811	229	945	922	1200	188	
	f	35		1811	670	980	980	1182	182	
	f	32		1798	1016	630	—	1164	187	
	f	36		1797	1222	660	660	1182	190	
18.2	f	37		1831	658	760	760	1188	190	
	f	33		1830	941	843	—	1170	190	
18.4	f	34		1849	629	955	—	1180	191	
	f	38		1852	940	860	860	1170	189	
	f	35		1846	1127	1001	—	1154	191	
18.8	f	36		1890	920	985	—	1196	190	
	f	39		1890	939	990	990	1165	191	
19.0	f	40		1906	714	870	870	1165	190	
	f	37		1915	831	1000	—	1163	195	
	f	38		1900	1082	945	—	1155	193	
19.2	f	41		1930	924	600	600	1150	193	
	f	42		1920	1156	820	822	1142	191	
19.4	f	43		1950	369	782	782	1185	190	
	f	44		1939	878	975	975	1150	190	
	f	39		1957	960	970	—	1151	190	
	f	40		1949	1074	950	—	1140	189	
	f	41		1945	1259	979	—	1139	190	

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1929phae.proj.126.P

Cl.-Dk.	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Trial reduction Cl.-Defl.	Cl.-Defl/Cl	mag.	L.No
971	114	—	10 117	—	857	759		
1010	294	—	1 291	—	716	606		
1005	405	—	2 403	—	600	508		
972	466	—	3 480	—	506	441		
1011	471	—	4 466	—	540	454		
990	560	—	5 566	—	430	367		
1019	671	—	6 659	—	348	290		
1011	710	—	7 702	—	301	252		
976	820	—	8 839	—	156	134		
1112	757	734	681	660			7.37, 7.25	
1000	798	798	798	798			8.07, 8.07	
987	443	—	449	—			5.59	56
992	470	470	473	473			5.82, 5.82	
998	570	570	571	571			6.62, 6.62	
980	653	—	667	—			7.27	62
989	764	—	772	—			7.92	2r
981	671	671	685	685			7.40, 7.40	
963	810	—	841	—			8.32	90
1006	795	—	791	—			8.02	148
974	799	799	820	820			8.19, 8.19	
975	680	680	697	697			7.47, 7.47	
968	805	—	831	—			8.24	105
962	752	—	781	—			7.98	118
957	407	407	425	425			5.39, 5.39	
951	629	631	661	663			7.25, 7.27	
995	592	592	595	595			6.79, 6.79	
960	785	785	817	817			8.17, 8.17	
961	780	—	811	—			8.14	h
951	761	—	800	—			8.08	b
949	789	—	831	—			8.25	135

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68

7 M.C. M.R.D. Feb. 25, 1929 RH 1011

Temp	Class	Star	y	x	Diff	Diff	Cl	Dk	Volt	C
19.6	f	45	1961	139	1812	812	1180	190		
	fp	42	1967	906	915	—	1180	190		
	f	46	1968	494	710	710	1180	190		
	f	47	1970	622	940	940	1170	190		
	f	48	1960	1080	930	930	1130	191		
19.8	f	49	1982	1128	990	990	1130	190		
20.0	f	50	1999	510	1000	1000	1170	190		
	f	51	2001	1130	871	871	1122	191		
	f	52	2010	1151	980	980	1133	190		
20.2	f	53	2030	199	875	875	1179	190		
	fp	43	2020	512	730	—	1150	190		
	fp	44	2023	722	940	—	1140	190		
	f	54	2029	1010	990	990	1131	190		
20.4	f	55	2050	200	1001	1001	1160	190		
	fp	45	2049	231	910	—	1160	190		
	fp	46	2049	341	975	—	1160	191		
	f	56	2044	577	971	971	1155	190		
	fp	47	2048	970	670	—	1121	191		
	fp	48	2048	1140	710	—	1120	190		
MRD 20.6	p	49	2061	099	950	—	1180	209		
	p	50	2063	152	955	—	1170	200		
	f	57	2060	429	1005	1005	1140	197		
	fp	51	2070	469	950	—	1155	207		
	f	58	2059	482	890	890	1163	213		
	p	52	2060	540	860	—	1160	215		
	f	59	2061	831	935	925	1140	215		
20.8	fp	53	2086	345	860	—	1170	220		
	fp	54	2080	415	750	—	1160	220		
	f	60	2079	703	880	875	1150	220		
	f	61	2086	865	1000	1000	1150	223		

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Cl-Dk	Defl-Dk	Defl-Dk	Reduced	Reduced	Mag.	L. No.
990	622	622	627	627	7.02, 7.02	
990	725	—	732	—	7.69	713
990	520	520	525	525	6.25, 6.25	
980	750	750	765	765	7.88, 7.88	
939	739	739	787	787	8.01, 8.01	
940	800	800	850	850	8.35, 8.35	
980	810	810	826	826	8.22, 8.22	
931	680	680	731	731	7.65, 7.68	
943	790	790	837	837	8.28, 8.28	
989	685	685	692	692	7.44, 7.44	
960	540	—	563	—	6.57	2 v 69
950	750	—	790	—	8.03	
941	800	800	850	850	8.35, 8.35	
970	811	811	836	836	8.27, 8.27	
970	720	—	742	—	7.75	679
969	784	—	809	—	8.12	
965	781	781	810	810	8.13, 8.13	
930	479	—	516	—	6.20	
930	520	—	560	—	6.56	183
971	741	—	763	—	7.88	683
970	755	—	778	—	7.97	
943	808	808	855	855	8.38, 8.38	
948	743	—	783	—	7.99	601
950	677	677	712	712	7.56, 7.56	
945	645	—	682	—	7.38	572
925	720	710	778	767	7.96, 7.89	
990	640	—	647	—	7.17	642
940	530	—	564	—	6.59	625
930	660	655	709	704	7.55, 7.53	
927	777	777	837	837	8.27, 8.27	

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1929phae.proj.120.P

70 MRD Feb 25, '29 RH 1011

Strip	class	star	y	x	Defl	Defl	cl	Dk	Volt.
21.0	f	62	2100	935	986	985	1130	210	
	f	63	2105	1144	940	933	1100	200	
21.2	f	64	2127	100	805	805	1125	190	
	f	65	2120	179	1005	1010	1138	185	
	f	66	2120	752	885	880	1105	180	
	fp	55	2130	1038	750	—	1080	180	
	f	67	2130	1060	980	973	1080	180	
21.4	fp	56	2140	088	970	—	1120	175	
	fp	57	2150	139	400	—	1125	178	
	fp	58	2139	360	700	—	1110	176	
	f	68	2140	476	1000	1000	1106	180	
	fp	59	2150	931	890	—	1090	175	
	f	69	2141	1092	925	925	1080	185	
	fp	60	2140	1240	840	—	1085	190	
		18	1910	759	295	—	1070	185	
		1	1679	479	470	—	1095	185	
		2	—	—	580	—	1100	187	
		3	—	—	642	—	1100	187	
		4	—	—	646	—	1110	190	
		5	—	—	730	—	1085	187	
		6	—	—	840	—	1103	185	bottom lower 5.26
		7	—	—	881	—	1100	190	
		8	—	—	990	—	1080	190	

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1929phae.proj.126.P

Cl-Dk	Defl-Dk	Defl-Dk	Reduced	Reduced	Cl-Defl.		Mag.	L.NO
920	776	775	844	843			8.33, 8.33	
900	740	733	822	814			8.20, 8.15	
935	615	615	658	658			7.24, 7.24	
953	820	825	860	860			8.40, 8.40	
925	705	700	762	757			7.86, 7.84	
900	570	—	634	—			7.06	240
900	800	793	888	881			8.52, 8.50	
945	795	—	841	—			8.31	
947	222	—	234	—			3.76	60 659?
934	524	—	561	—			6.56	606
926	820	820	885	885			8.51, 8.51	
915	715	—	781	—			7.98	274
895	740	740	827	827			8.24, 8.24	
895	650	—	726	—	775	724	7.65	206
885	110	—	10 124	—	625	571		
910	285	—	1 313	—	520	472		
913	393	—	2 430	—	458	416		
913	455	—	3 498	—	464	417		
920	456	—	4 495	—	355	327		
898	543	—	5 605	—	263	236		
918	655	—	6 713	—	219	199		
910	691	—	7 759	—	90	83		
890	800	—	8 898	—				

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1929phae.proj.126:P

R. J. P — Feb. 25, 1929 — R.H. 10 11

Strip	Class	Star	Dc	Y	Dyff	Dyff.	Clear	Dk	Volts
		10	1910	759	310		1125	195	5.22
		1	1679	479	480	—	1180	200	
		2	—	—		—			
		3	—	—		—			
		4	—	—		—			
		5	—	—		—			
		6	—	—		—			
		7	—	—		—			
		8	—	—		—			

Omit

21.6

Continued in BK 66, p64

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74 F.m.c. — R+H 1009 — Mar. 1, 1929 Field 18h, +80

Strip	Class	Star	y	x	Defl	Defl	Cl.	Dk	Totals
		15	1930	885	459	—	1218	201	5.60
		1	1600	739	620	—	1250	210	
		2	—	—	650	—	1270	212	
		3	—	—	790	—	1268	215	
		4	—	—	815	—	1260	220	
		5	—	—	900	—	1259	220	
		6	—	—	1020	—	1250	215	
		7	—	—	1040	—	1250	220	
		8	—	—	1150	—	1255	220	
13.8		1	1382	650	992	1000	1270	210	
		1	1378	775	1145	—	1262	211	
14.0		2	1410	629	1145	1145	1260	212	
		2	1411	760	1020	—	1242	210	
		3	1408	768	891	895	1269	213	
14.2		4	1431	594	1040	1030	1248	210	
		3	1422	720	1121	—	1259	206	
		4	1435	950	1100	—	1259	202	
		5	1430	1053	1145	1149	1270	210	
14.4		5	1438	641	1119	—	1258	211	
		6	1440	998	870	—	1269	214	
		7	1439	1022	955	—	1268	215	
14.6		8	1466	615	1076	—	1253	210	
		6	1461	789	970	970	1260	211	
14.8		7	1490	503	1050	1052	1239	208	
		8	1483	531	1075	1085	1232	202	
		9	1487	1000	1000	—	1260	211	
		9	1494	1060	1025	1030	1260	213	
		10	1490	1157	1080	—	1280	210	
15.0		10	1510	474	980	982	1231	202	
		11	1514	483	830	832	1233	202	

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Wrongly plotted reduction curve first used

Cl.-Dk	Defl.-Dk.	Defl.-Dk	Reduced	Reduced	Mag.	L. NO. P No.
1017	258	—	254	—		
1040	410	—	394	—		
1058	438	—	413	—		
1053	575	—	545	—		
1040	595	—	573	—		
1039	680	—	655	—		
1035	805	—	780	—		
1030	820	—	795	—		
1035	930	—	900	—		
1060	782	791	738	745		
1051	934	—	888	—	819 ~~779~~	
1048	933	933	890	890		
1032	810	—	784	—	723	926
1256	678	682	540	543		
1038	830	820	800	790		
1053	915	—	868	—	7.95 ~~7.67~~	
1057	898	—	850	—	7.77 ~~7.60~~	
1060	935	939	883	887		
1047	908	—	867	—	7.92 ~~7.67~~	892
1055	656	—	621	—	6.23	1030
1053	740	—	701	—	6.71	1043
1043	866	—	830	—	7.59 ~~7.48~~	880
1049	759	759	723	723		
1031	842	842	815	815		
1030	873	883	847	857		
1049	789	—	752	—	7.02	1044
1047	812	817	775	780		
1070	870	—	813	—	7.44 ~~7.89~~	1110
1029	778	780	756	758		
1031	628	630	609	611		

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F.M.C. RH 1009 Mar. 1, 1929, No Up

Trip	Class	Star	Y	X	Dyff	Dyff	Cl	Dk	Volt
5.0	fp	11	1511	731	1039	—	1249	202	
		12	1501	941	1132	1140	1267	209	
		13	1509	1028	1118	1118	1260	210	
		14	1511	1088	602	602	1265	202	
15.2		12	1532	394	1052	—	1240	202	
		15	1536	439	915	930	1235	200	
		13	1535	486	1120	—	1225	193	
		16	1519	837	881	871	1242	192	
		17	1530	944	1150	1150	1240	192	
15.4		18	1540	419	1040	1041	1220	198	
		19	1539	778	1010	1010	1246	202	
		20	1550	852	1071	1071	1240	195	
		21	1551	1120	719	719	1250	190	
		18	1930	885	450	—	1220	202	
		1	1600	739	608	—	1250	203	
		2	—	—	630	—	1260	201	
		3	—	—	760	—	1258	201	
		4	—	—	784	—	1250	199	
		5	—	—	890	—	1249	202	
		6	—	—	990	—	1232	204	
		7	—	—	1018	—	1230	200	
		8	—	—	1130	—	1240	200	5.42

MRD Mar 1st RH 1009

18	1930	885	450	—	1215	200	
1	1600	739	600	—	1245	202	
2	—	—	630	—	1260	202	
3	—	—	755	—	1260	204	
4	—	—	790	—	1252	210	
5	—	—	890	—	1250	205	

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Cl.-Dk	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.	L.No.
1047	837	—	799	—	7.33 ~~7.80~~	907
1058	923	931	872	880		
1050	908	908	770	770		
1063	400	400	376	376		
1038	850	—	818	—	7.49 ~~7.41~~	k
1035	715	730	690	705		
1032	927	—	898	—		
1050	689	679	656	647		
1048	958	958	915	915		
1022	842	843	823	824		
1044	808	808	773	773		
1045	876	876	887	837		
1060	529	529	499	499		
1018	248	—	244	—		
1047	405	—	386	—		
1059	429	—	405	—		
1057	559	—	529	—		
1051	585	—	555	—		
1047	688	—	658	—		
1028	786	—	765	—		
1030	818	—	794	—		
1040	930	—	895	—		
1015	250	—	246	—		
1043	398	—	382	—		
1058	428	—	405	—		
1056	557	—	521	—		
1042	580	—	555	—		
1045	685	—	655	—		

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1929phae.proj.126:P

78 MRD Mar 1st RH 1009

Strip	Class	Star	y	x	Defl	Defl	Cl	DK
		6	—	—	997	—	1237	205
		7	—	—	1018	—	1200	202
		8	—	—	1130	—	1240	205
15.6	f	22	1570	980	1130	1127	1250	202
15.8	f	14	1590	361	1095	—	1242	202
	f	15	1578	474	1040	—	1235	203
	f	16	1590	520	924	—	1232	203
	f	17	1592	796	1085	—	1247	206
16.0	f	18	1610	1240	971	—	1262	205
16.2	f	23	1631	760	1070	1075	1243	205
	f	24	1637	767	725	727	1238	207
16.4	f	19	1646	456	1120	—	1232	210
	f	20	1637	702	1120	—	1248	210
	f	25	1650	960	1090	1090	1243	210
	f	26	1644	1184	627	627	1254	203
	f	21	1650	1202	1080	—	1257	204
16.6	f	27	1664	286	940	940	1230	203
	f	28	1664	474	1010	1000	1220	203
	f	22	1670	480	1087	—	1220	205
	f	23	1670	748	1120	—	1235	207
	f	29	1670	1116	860	856	1242	205
	f	30	1660	1227	1010	1010	1263	209
	f	24	1674	1293	675	—	1255	205
16.8	f	31	1687	554	1120	1120	1230	203
	f	32	1682	857	1115	1115	1225	204
	f	33	1680	860	1130	1130	1230	206
	f	34	1688	940	1040	1034	1230	207
	f	35	1689	968	865	860	1223	204
	f	25	1677	980	985	—	1232	208
	f	26	1694	1106	1000	—	1242	210

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1929phae.proj.126dP

Cl.-Dk.	Defl.-Dk.	Defl.-H.	Reduced	Reduced	Mag.	L.No.
1035	792	—	745	—		
998	816	—	817	—		
1035	925	—	895	—		
1048	928	925	885	883		
1040	893	—	858	—	7.90	758
1032	837	—	811	—	7.46	790
1029	721	—	701	—	6.71	805
1041	879	—	842	—	7.73	948
1057	766	—	725	—	6.85	1104
1038	865	870	833	838		
1031	518	520	502	504		
1022	910	—	890	—	8.29	764
1038	910	—	876	—	8.10	893
1033	880	880	851	851		
1051	424	424	403	403		
1053	876	—	831	—	7.65	1176
1027	737	737	718	718		
1017	807	797	796	785		
1015	882	—	870	—	8.05	
1028	913	—	890	—	8.29	
1137	655	651	632	628		
1054	801	801	760	760		
1050	470	—	448	—	5.86	
1027	917	917	894	894		
1021	911	911	890	890		
1024	924	924	902	902		
1023	833	833	813	813		
1019	661	656	649	644		
1024	777	—	758	—	7.58	
1032	790	—	765	—	7.11	

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1929phae.proj.126.P

80 M.R.T. Mar 1st RH 1009

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volt
	f	36	1675	1192	1087	1087	1254	206	5.4
	f	37	1680	1229	1090	1090	1256	208	
	p	27	1680	1250	1060	—	1250	214	
		13	1930	885	430	—	1220	211	
		1	1600	739	582	—	1232	210	
		2	—	—	610	—	1240	214	
		3	—	—	735	—	1243	211	
		4	—	—	775	—	1238	213	
		5	—	—	870	—	1240	215	
		6	—	—	978	—	1220	215	
		7	—	—	1000	—	1238	219	
		8	—	—	1113	—	1240	217	
			Y.J.P	R H.1009	Mar. 1, 1929				
		10	1930	886	430	—	1200	190	5.50
		1	1600	739	580	—	1229	182	
		2	—	—	603	—	1235	183	
		3	—	—	730	—	1235	183	
		4	—	—	765	—	1220	180	
		5	—	—	860	—	1218	181	
		6	—	—	970	—	1204	181	
		7	—	—	998	—	1202	180	
		8	—	—	1109	—	1217	181	
17.0	f	38	1708	1002	902	904	1221	181	
	p	28	1699	1106	990	—	1219	181	
	p	29	1710	1206	878	—	1229	181	
	p	30	1712	1320	970	—	1221	182	
17.2	p.	31	1719	000	1050	—	1205	182	
	f	39	1730	511	860	870	1198	182	
17.4	f	40	1752	387	942	945	1193	182	

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1929phae.proj.126.P

Cl.-Dk.	Defl.-Dk	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1048	881	881	840	840		
1048	882	882	841	841		
1036	846	—	817	—		
1009	219	—	217	—		
1022	372	—	364	—		
1026	396	—	386	—		
1032	524	—	507	—		
1025	562	—	547	—		
1025	655	—	639	—		
1005	763	—	757	—		
1019	781	—	766	—		
1013	896	—	885	—		
1010	240	—	P 238	—		
1047	398	—	1 380	—		
1052	420	—	2 398	—		
1052	547	—	3 520	—		
1040	585	—	4 563	—		
1037	679	—	5 655	—		
1023	789	—	6 770	—		
1022	818	—	7 800	—		
1036	928	—	8 895	—		
1040	721	723	693	695		
1038	809	—	780	—		
1048	697	—	664	—		
1039	788	—	759	—		
1023	868	—	846	—		
1016	678	678	667	667		
1011	760	763	752	755		

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D. J. P. – R. H. 1009 – Mar. 1, 1929

Strip	Class	Star	y	x	Dgll.	Dgl.	Cl.	Dk.	Volts
	f	41	1739	447	822	822	1195	181	
	p	32	1750	749	1084	—	1187	182	
	f	42	1750	775	986	986	1190	184	
17.6	p	33	1770	222	1011	—	1201	183	
	f	43	1759	234	746	746	1189	181	
	f	44	1770	407	983	983	1179	182	
	f	45	1771	419	949	949	1170	180	
	p	34	1779	454	970	—	1164	180	
	f	46	1760	519	1071	1060	1169	181	
	p	35	1769	607	1051	—	1159	180	
	p	36	1770	1039	1059	—	1195	181	
17.8	f	47	1782	795	1004	1006	1170	178	
	p	37	1790	962	947	—	1173	180	
	p	38	1790	1175	1062	—	1176	181	
18.0	p	39	1796	274	992	—	1161	180	
	p	40	1805	402	1038	—	1161	182	
	p	41	1808	1128	950	—	1183	181	
	p	42	1800	1139	839	—	1186	181	
	p	43	1801	1162	890	—	1181	181	
	f	48	1802	1193	988	991	1170	181	
18.2	p	44	1819	350	972	—	1148	180	
	p	45	1818	795	994	—	1158	182	
	f	49	1822	842	1073	1072	1158	181	
	f	50	1821	889	984	986	1166	183	
	f	51	1821	1041	1060	1059	1163	183	
	f	52	1833	1040	1010	1004	1160	182	
	f	53	1825	1230	926	920	1165	181	
18.4	f	54	1838	726	965	975	1102	179	
	f	55	1843	774	982	983	1142	179	
	p	46	1850	1123	840	—	1179	181	

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1929phae.proj.126.P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1014	641	641	632	632		
1005	902	—	896	—		
1016	802	802	799	799		
1018	825	—	813	—		
1008	565	565	559	559		
997	801	801	804	804		
990	769	769	777	777		
984	790	—	803	—		
988	890	879	901	889		
979	871	—	890	—		
1014	878	—	866	—		
992	826	828	832	834		
993	767	—	772	—		
995	881	—	886	—		
981	812	—	827	—		
979	856	—	875	—		
1002	769	—	767	—		
1005	658	—	655	—		
1000	709	—	709	—		
989	807	800	816	800		
968	792	—	817	—		
976	812	—	831	—		
977	892	891	913	912		
983	801	803	814	816		
980	877	870	893	887		
978	828	822	846	840		
984	745	739	758	752		
923	786	796	851	861		
963	803	804	833	834		
998	659	—	660	—		

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1929phae.proj.126.P

21 J P – RH 1009 – March 1, 1929

Trip	Class	Star	ν	h.	Dgfl	Dgfl	Cl	Dk	Note
18.6	p	47	1866	211	609	—	1161	179	
	p	48	1868	450	1015	—	1140	176	
	f	56	1868	468	931	931	1132	173	
	f	57	1857	650	942	942	1138	177	
	p	49	1860	1095	1005	—	1157	178	
	p	50	1860	1289	977	—	1169	175	
18.8	f	58	1888	198	611	611	1145	172	
	p	51	1891	242	982	—	1145	172	
	f	59	1890	420	769	771	1128	172	
	f	60	1881	635	1040	1032	1122	180	
	f	61	1879	929	925	925	1149	177	
		1p	1930	886	410	—	1162	180	
		1	1600	739	568	—	1138	174	
		2	—	—	595	—	1150	173	
		3	—	—	710	—	1152	177	
		4	—	—	745	—	1138	176	
		5	—	—	824	—	1133	175	
		6	—	—	920	—	1123	179	
		7	—	—	938	—	1117	178	
		8	—	—	1035	—	1129	180	5.25
MRD.		Mar 2nd		RH	1009				5.6
		1s	1930	865	405	—	1200	172	
		1	1600	719	600	—	1235	173	
		2	—	—	630	—	1255	175	
		3	—	—	760	—	1260	177	
		4	—	—	795	—	1245	180	
		5	—	—	890	—	1250	180	
		6	—	—	1000	—	1240	183	
		7	—	—	1028	—	1240	188	
		8	—	—	1140	—	1250	185	

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1929phae.proj.126.P

Cl-Dk	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
982	430	—	438	—		
964	839	—	870	—		
969	758	758	791	791		
961	765	765	796	796		
979	827	—	845	—		
994	802	—	807	—		
973	439	439	452	452		
973	810	—	833	—		
956	597	599	624	626		
942	860	852	913	905		
972	748	748	770	770		
922	230	—	10 250	—		
964	394	—	1 409	—		
977	422	—	2 432	—		
975	533	—	3 545	—		
962	569	—	4 590	—		
958	649	—	5 676	—		
944	741	—	6 785	—		
939	760	—	7 810	—		
949	855	—	8 900	—		
1028	233	—	10 227	—		
1062	427	—	1 403	—		
1085	455	—	2 420	—		
1083	583	—	3 537	—		
1065	615	—	4 575	—		
1070	710	—	5 665	—		
1057	817	—	6 773	—		
1052	840	—	7 800	—		
1065	955	—	8 895	—		

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MRD Mar 2nd RH1009

Strip	Class	Star	y	x	Defl	Defl	Cl	Dk	Volt
19.0	p	52	1900	415	1830	—	1253	190	
	f	62	1897	450	1100	1100	1240	180	
	f	63	1904	504	1098	1095	1250	190	
	f	64	1902	800	780	780	1253	185	
	p	53	1901	1296	1000	—	1280	180	
19.2	p	54	1928	480	940	—	1220	170	5.59
	p	55	1919	600	910	—	1205	170	
	f	65	1930	643	980	980	1223	172	
	f	66	1917	983	890	890	1249	175	
	f	67	1928	1132	780	782	1250	172	
	p	56	1932	1222	1130	—	1269	171	
19.4	p	57	1955	406	940	—	1230	170	
	f	68	1950	450	1010	1010	1230	180	
	p	58	1940	535	1065	—	1220	180	
	p	59	1942	1064	962	—	1245	175	
	f	69	1946	1138	1115	1120	1251	180	
	p	60	1948	1148	691	—	1254	175	
	p	61	1945	1387	630	—	1260	170	
19.6	p	62	1960	213	1140	—	1195	172	
	f	70	1959	521	1130	1128	1212	178	
	f	71	1960	859	1140	1140	1222	179	
	p	63	1969	929	1118	—	1232	180	
	f	72	1958	1220	1025	1031	1245	181	
	f	73	1956	1233	1121	1131	1258	180	
	p	64	1959	1300	880	—	1254	180	
20.0	p	65	2001	419	1010	—	1212	180	
	f	74	2010	440	1120	1120	1210	178	
	f	75	2012	573	1020	1022	1220	185	
	p	66	1998	720	990	—	1221	188	
	f	76	2014	1000	1100	1100	1256	185	

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1929phae.proj.126P

Cl.–Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	b. No.
1063	840	—	789	—		
1060	920	920	868	868		
1061	908	905	857	854		
1068	595	595	557	557		
1100	820	—	745	—		
1050	770	—	734	—		
1035	740	—	715	—		
1051	808	808	770	770		
1074	715	715	666	666		
1078	608	610	565	567		
1098	959	—	874	—		
1060	770	—	727	—		
1050	830	830	791	791		
1040	885	—	852	—		
1070	787	—	735	—		
1071	935	940	872	877		
1079	516	—	478	—		
1090	460	—	422	—		
1023	968	—	944	—		
1034	952	950	920	918		
1043	961	961	920	920		
1052	938	—	891	—		
1064	844	850	792	798		
1078	941	950	842	882		
1074	700	—	651	—		
1032	830	—	803	—		
1032	942	942	912	912		
1035	835	837	806	808		
1033	802	—	776	—		
1071	915	920	853	858		

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F.M.C. Mar. 2, 1929 RH 1009

Strip	Class	Star	y	x	Defe	Defe	α	Dk	
20.0	f	77	2008	1045	1095	1090	1251	184	
	f	78	2010	1049	1015	1015	1248	186	
	f	67	2002	1169	1115	—	1240	190	
	f	79	1998	1091	1135	1140	1240	185	
	f	80	2005	1285	980	980	1226	185	
20.2	f	68	2030	340	1081	—	1230	181	
	f	81	2028	1323	1090	1090	1260	190	
20.4	f	69	2050	429	1110	—	1220	190	
	f	70	2039	432	1001	—	1221	189	
	f	82	2044	451	1138	1140	1209	184	
	f	83	2040	846	1135	1135	1240	188	
20.6	f	84	2064	274	960	960	1230	189	
	f	85	2068	292	1100	1090	1250	202	
	f	86	2071	977	1122	1122	1229	190	
	f	87	2065	407	1115	1118	1210	182	
	f	71	2061	1025	1059	—	1225	180	
	f	88	2060	1050	1112	1118	1220	179	
	f	72	2069	1160	1000	—	1221	179	
		1S	1930	865	390	—	1170	170	
		1	1600	719	550	—	1191	170	
		2	—	—	580	—	1209	170	
		3	—	—	702	—	1203	168	
		4	—	—	740	—	1192	170	
		5	—	—	832	—	1190	169	
		6	—	—	938	—	1172	165	
		7	—	—	965	—	1165	168	
		8	—	—	1070	—	1184	165	5.40

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Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	Lt. No.
1067	911	911	854	854		
1062	829	829	780	780		
1050	925	—	880	—		
1055	950	955	899	904		
1041	795	795	763	763		
1049	900	—	858	—		
1070	900	900	840	840		
1030	920	—	892	—		
1032	812	—	786	—		
1025	954	956	930	932		
1052	947	947	900	900		
1041	771	771	740	740		
1048	898	888	857	847		
1039	932	932	897	897		
1028	933	936	908	912		
1045	879	—	840	—		
1041	933	939	895	901		
1042	821	—	786	—		
1000	220	—	10 220	—		
1021	380	—	1 372	—		
1039	410	—	2 395	—		
1036	534	—	3 515	—		
1022	570	—	4 558	—		
1021	663	—	5 649	—		
1007	773	—	6 768	—		
997	797	—	7 800	—		
1019	905	—	8 889	—		

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W. J. P. — R. A. 1009 — March 2, 1929

Strip	Class	Star	y	x	Defl	Defl	cl	Dl	Volt.
		10	1930	865	422	+	1212	180	5.6
		1	1600	718	601	—	1241	177	
		2	—	—	631	—	1207	178	
		3	—	—	700	—	1248	176	
		4	—	—	795	—	1238	174	
		5	—	—	901	—	1248	180	
		6	—	—	991	—	1217	180	
		7	—	—	1010	—	1212	180	
		8	—	—	1115	—	1222	176	
20.8	p	89	2189	1280	1042	1048	1258	174	
21.0	p	90	2100	370	1107	1107	1220	182	5.55
	p	73	2108	1132	1045	—	1242	180	
	p	91	2100	1936	952	952	1238	180	
21.2	p	92	2120	300	1033	1032	1222	180.	
	p	93	2129	340	1088	1086	1212	181	
	p	94	2129	571	765	768	1202	174	
	p	95	2132	1152	1081	1081	1238	177	
21.4	p	96	2149	288	1030	1030	1209	180	
	p	97	2141	965	910	910	1223	173	
	p.	74	2149	992	830	—	1231	180	
	p	75	2151	1345	937	—	1240	186	
21.6	p	76	2161	368	1058	—	1212	187	
	p	98	2168	679	1069	1069	1181	180	
	p.	77	2161	932	906	—	1170	186	
	p	99	2172	978	1046	1046	1217	189	
	p	100	2171	1300	850	842	1200	185	
	p	78	2168	1325	1068	—	1210	187	
21.8	p	101	2189	276	1050	1052	1180	187	
	p	79	2179	359	800	—	1173	182	
	p	102	2178	469	1040	1036	1169	185	

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Cl.-Dk	Deff-Dk	Deff-Dk	Reduced	Reduced	Magn.	L. No.
1032	232	—	10 224	—		
1064	424	—	1 399	—		
1073	453	—	N 422	—		
1062	574	—	3 540	—		
1064	621	—	4 584	—		
1068	721	—	5 675	—		
1037	811	—	6 782	—		
1032	830	—	7 804	—		
1046	939	—	8 899	—		
1084	868	874	800	805		
1038	920	920	886	886		
1062	865	—	814	—		
1058	792	772	730	730		
1042	853	852	818	817		
1031	907	905	878	876		
1028	591	594	575	578		
1061	904	904	851	851		
1029	850	850	826	826		
1050	737	737	702	702		
1051	650	—	618	—		
1054	751	—	712	—		
1025	871	—	850	—		
1001	889	889	887	887		
987	720	—	730	—		
1028	857	857	835	835		
1015	665	657	655	647		
1023	881	—	860	—		
993	863	865	869	871		
991	618	—	623	—		
984	855	853	869	867		

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1929phae.proj.126.P

H. J. P — R.H. 1009 — March 2, 1929.

trip	class	Star	y	x	Dyl	dyl	Cl.	Dc.	Volts
		103	2178	832	953	953	1184	188	
		104	2190	1272	990	981	1206	188	
		105	2192	1278	763	763	1208	188	
		80	2188	1299	1022	—	1212	188	
22.0		81	2203	789	1002	—	1180	188	5.40
		106	2200	869	825	830	1170	188	
22.2		107	2218	580	1000	1003	1161	188	
		108	2220	694	1031	1029	1167	191	
		109	2218	862	1058	1050	1192	183	
		82	2222	913	1020	—	1190	193	
		83	2223	1145	806	—	1190	193	
		110	2215	1180	1007	1007	1198	199	
		10	1930	865	424	—	1138	197	
		1	1600	718	592	—	1172	198	
		2	—	—	621	—	1187	197	
		3	—	—	737	—	1185	198	
		4	—	—	771	—	1172	192	
		5	—	—	858	—	1169	192	
		6	—	—	957	—	1157	193	
		7	—	—	969	—	1149	196	
		8	—	—	1069	—	1161	192	5.4
FMC	Mar. 4, 1929	15	1930	945	431	—	1140	175	5.42
		1	1600	799	546	—	1168	178	
		2	—	—	560	—	1170	178	
		3	—	—	675	—	1178	180	
		4	—	—	740	—	1170	181	
		5	—	—	818	—	1165	182	
		6	—	—	939	—	1153	180	
		7	—	—	950	—	1150	181	
		8	—	—	1060	—	1162	181	

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1929phae.proj.126aP

Cl.–Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced Mags.	L. No.
996	765	765	767	767	
1018	742	743	728	729	
1012	575	575	567	567	
1024	834	—	813	—	
992	814	—	820	—	
982	637	642	648	653	
973	812	815	833	836	
976	840	828	860	858	
1009	875	867	867	858	
997	827	—	828	—	
997	713	—	715	—	
999	808	808	808	808	
941	227	—	10 241	—	
974	394	—	1 405	—	
990	424	—	2 428	—	
987	539	—	3 545	—	
980	579	—	4 590	—	
977	686	—	5 682	—	
964	764	—	6 792	—	
953	773	—	7 810	—	
969	877	—	8 905	—	
965	256	—	10 265	—	
990	368	—	1 372	—	
992	382	—	2 386	—	
998	495	—	3 496	—	
989	659	—	4 566	—	
983	636	—	5 647	—	
973	759	—	6 780	—	
969	769	—	7 795	—	
981	879	—	8 895	—	

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1929phae.proj.126.P

FMC Mar. 4, 1929 RH 1009

Strip	class	star	y	x	Defl	Defl	cl	Dk	Volt
22.4	f	111	2241	414	1022	1022	1155	184	
	f	84	2251	710	1025	—	1159	184	
	f	112	2255	773	1042	1050	1160	185	
	f	113	2257	1075	800	800	1178	180	
	f	85	2257	1095	860	—	1175	185	
	f	114	2250	1287	900	900	1180	190	
	f	115	2251	1341	1012	1012	1162	189	
22.6	f	116	2258	450	900	900	1148	181	
	f	117	2265	529	1030	1032	1133	183	
	f	118	2264	867	1020	1021	1165	190	
	f	86	2259	990	850	—	1177	186	
22.8	f	119	2288	520	937	939	1131	192	
	f	87	2281	586	1050	—	1149	190	
	f	88	2279	638	960	—	1148	191	
	f	89	2280	805	1052	—	1158	195	
	f	90	2289	980	838	—	1170	192	
	f	120	2278	1000	860	870	1181	195	
	f	121	2289	1261	1031	1039	1173	192	
23.0	f	91	2310	431	1010	—	1150	190	
	f	92	2310	548	822	—	1140	195	
	f	122	2298	580	1000	1010	1140	190	
	f	123	2299	639	895	895	1145	191	
	f	124	2300	918	1040	1045	1163	190	
	f	125	2300	1182	1050	1050	1160	190	
	f	126	2305	1330	640	640	1160	187	
23.2	f	127	2330	566	910	920	1130	192	
	f	128	2332	895	952	955	1158	195	
	f	93	2330	1079	960	—	1164	190	
	f	129	2320	1052	900	900	1150	190	
	f	130	2335	1295	1040	1040	1150	190	

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1929phae.proj.126.P

Cl.-Dk	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	Li. No.
971	838	838	863	863		
975	841	—	863	—		
975	859	865	878	886		
998	620	620	621	621		
990	685	—	692	—		
990	710	710	717	717		
973	823	823	845	845		
967	719	719	745	745		
950	847	849	892	894		
975	830	831	851	852		
991	664	—	670	—		
939	745	747	793	795		
969	860	—	896	—		
957	769	—	804	—		
963	857	—	889	—		
978	646	—	661	—		
986	665	675	675	685		
981	845	847	862	864		
960	820	—	855	—		
945	627	—	665	—		
950	810	820	853	863		
954	704	704	739	739		
973	850	855	874	879		
970	860	860	886	886		
973	453	453	467	467		
938	718	728	766	776		
963	759	760	787	790		
974	770	—	792	—		
960	710	710	740	740		
960	850	850	886	886		

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1929phae.proj.126.P

FMC Mar. 4, 1929 RH 1009

trip	Class	Star	y	x	Diff	Diff	cl	Dk	Volt
		1S	1930	945	395	—	1140	190	
		1	1600	799	550	—	1130	187	
		2	—	—	570	—	1140	188	
		3	—	—	699	—	1140	190	
		4	—	—	724	—	1131	190	
		5	—	—	810	—	1135	190	
		6	—	—	912	—	1115	181	
		7	—	—	921	—	1110	186	
		8	—	—	1030	—	1131	191	5.24
	Q.g P—	RH.1009	Mar.	4, 1929					5.39
		10	1931	947	375	—	1151	186	
		1	1600	799	529	—	1188	190	
		2	—	—	556	—	1193	189	
		3	—	—	669	—	1186	182	
		4	—	—	708	—	1180	189	
		5	—	—	800	—	1177	188	
		6	—	—	914	—	1164	188	
		7	—	—	934	—	1153	189	
		8	—	—	1055	—	1170	190	
23.4	f	131	2340	777	1011	1011	1162	188	
	f	132	2340	856	1030	1040	1179	192	
	p	94	2340	947	943	—	1171	190	
	p	95	2348	1308	998	—	1176	191	
23.6	p	96	2360	428	896	—	1141	194	
	p	97	2360	568	960	—	1153	191	
	p	98	2371	682	912	—	1142	193	
	f	133	2362	746	973	973	1152	183	
	f	134	2360	1239	692	692	1160	200	
	p	99	2353	1274	912	—	1158	198	
23.8	f	135	2395	518	954	952	1140	198	

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1929phae.proj.1204P

Cl.-Dk	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
950	205	—	1° 216	—		
943	363	—	1 386	—		
952	382	—	2 402	—		
950	509	—	3 537	—		
941	574	—	4 610	—		
945	620	—	5 656	—		
934	731	—	6 782	—		
924	735	—	7 796	—		
940	839	—	8 892	—		
965	189	—	1° 196	—		
998	339	—	1 340	—		
1004	367	—	2 365	—		
1004	487	—	3 485	—		
947	525	—	4 527	—		
989	612	—	5 618	—		
976	726	—	6 744	—		
964	745	—	7 772	—		
980	865	—	8 882	—		
974	823	823	845	845		
987	838	848	847	857		
981	753	—	767	—		
985	807	—	819	—		
947	702	—	740	—		
962	769	—	799	—		
949	719	—	758	—		
959	780	780	813	813		
960	492	492	512	512		
960	714	—	743	—		
942	756	754	801	799		

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1929phae.proj.126.P

Hyp-RH1009 – March 4, 1929

trig.	class	star	y	x	Diff	Diff	cl	Dk	Volt
23.8	p	100	2390	832	990	+	1148	198	
	f	136	2489	1082	1004	1004	1170	192	
	p	101	2389	1143	1001	+	1165	192	
	p	102	2384	1191	600	—	1154	191	
24.0	f	137	2410	606	1008	1008	1195	191	5.20
	p	103	2398	658	779	—	1174	193	
	f	138	2400	1128	792	792	1160	200	
	f	139	2423	1154	864	864	1156	201	
24.2	f	140	2429	853	932	932	1151	199	
	p	104	2423	1210	681	—	1146	195	
24.4	f	141	2450	589	912	912	1122	195	
	p	105	2448	1032	818	—	1144	197	
24.6	p	106	2468	601	950	—	1128	200	
	f	142	2470	633	820	820	1121	198	
	p	107	2471	1147	880	—	1142	198	
25.2	f	143	2514	846	491	491	1128	192	5.20
25.4	f	144	2550	848	648	648	1123	189	
		10	1931	947	375	—	1085	190	
		1	1600	799	000	—	1114	188	
		2	—	—	522	—	1136	190	
		3	—	—	643	—	1122	190	
		4	—	—	682	—	1111	188	
		5	—	—	760	—	1104	188	
		6	—	—	872	—	1094	183	
		7	—	—	889	—	1083	182	
		8	—	—	990	—	1100	186	5.18

Plate finished

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1929phae.proj.126.P

Cl-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced Defl.	Reduced Defl.	Magn.	D. No.
950	792	—	833	—		
978	812	812	830	830		
973	809	—	832	—		
963	409	—	425	—		
944	817	817	865	865		
941	586	—	622	—		
960	592	592	616	616		
955	663	663	694	694		
952	733	733	769	769		
951	486	—	511	—		
927	717	717	773	773		
947	621	—	655	—		
928	750	—	808	—		
923	622	622	673	673		
944	682	—	723	—		
936	299	299	318	318		
934	459	459	492	492		
895	185	—	10 207	—		
926	312	—	1 337	—		
946	332	—	2 350	—		
932	453	—	3 487	—		
923	494	—	4 535	—		
916	572	—	6 624	—		
911	689	—	6 756	—		
901	701	—	7 777	—		
914	804	—	8 879	—		

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1929phae.proj.126.P

αγΩ - RH 857 - April 9, 1929

Strip	Class	Star	y	x	Dyf	Dyf	cl	Dh	Volts
		10	2027	850	400	—	1859	390	516
		1	1721	1050	461	—	1940	387	
		2	—	—	527	—	1952	388	
		3	—	—	680	—	1958	387	
		4	—	—	750	—	1951	387	
		5	—	—	865	—	1948	394	
		6	—	—	1120	—	1950	400	
		7	—	—	1210	—	1952	405	
		8	—	—	1579	—	1953	409	
13.6	f	1	1361	591	741	730	1910	401	
	f	2	1370	748	890	872	1945	404	
13.8	f	3	1380	563	1331	1333	1920	410	
	p	1	1383	622	1370	—	1929	402	
14.0	p	2	1400	915	1422	—	1946	411	
	f	4	1407	980	1150	1153	1970	410	
14.2	p	3	1432	541	491	—	1920	402	
	p	4	1425	1069	1180	—	1970	410	
14.4	p	5	1440	629	1370	—	1941	417	
	f	5	1439	1099	1230	1230	1981	419	
14.6	p	6	1465	520	1398	—	1937	415	
	f	6	1460	820	1323	1320	1981	416	
14.8	f	7	1497	480	1290	1292	1929	412	
	p	7	1490	921	1377	—	1980	410	
15.0	f	8	1506	410	575	575	1909	412	
	f	9	1510	460	731	731	1940	410	
	f	10	1509	747	1280	1280	2001	430	
	f	11	1510	819	1365	1360	1969	420	
	f	12	1507	1159	563	562	2002	422	
15.2	f	13	1519	954	1378	1370	1991	422	
15.4	f	14	1552	353	650	650	1902	415	

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1929phae.proj.126P

C-Dk	Dfe-Dk	Dfe-Dk	Red Dfe	Red Dfe	Magn.	D. No.
1469	10	—	7	—		
1553	74	—	48	—		
1564	139	—	89	—		
1571	293	—	186	—		
1564	363	—	232	—		
1544	471	—	305	—		
1550	720	—	465	—		
1547	805	—	520	—		
1544	1170	—	757	—		
1509	340	329	226	218		
1541	486	468	315	304		
1510	921	923	610	610		
1527	968	—	635	—		
1535	1011	—	659	—		
1560	740	743	475	476		
1518	89	—	59	—		
1560	770	—	494	—		
1524	953	—	625	—		
1562	811	811	519	519		
1522	983	—	645	—		
1565	907	904	580	577		
1517	878	880	579	580		
1570	967	—	616	—		
1407	163	163	109	109		
1530	321	321	210	210		
1571	850	850	540	540		
1549	945	940	610	607		
1580	141	140	89	89		
1569	956	948	610	605		
1487	235	235	158	158		

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HP- RH 857 - April 9, 1929

Strip	class	star	y	x	Diff	Diff	cl	Dk	Volt
15.4	p	8	1539	939	1106	—	1964	422	
		15	1540	1090	1220	1215	1981	422	
		16	1540	1209	1330	1331	2000	421	
15.6		17	1570	819	1260	1249	1980	428	
15.8	p	9	1581	743	1310	—	1972	428	
16.0		18	1610	378	1216	1214	1921	430	
		19	1610	802	1158	1128	1990	430	
16.2	p	10	1631	629	1216	—	1961	420	
		20	1621	1028	893	895	1979	414	
16.4	p	11	1652	579	948	—	1920	414	
	p	12	1640	1217	1379	—	1997	413	
16.6	p	13	1670	1119	1410	—	1980	418	
16.8		21	1682	292	1240	1245	1929	420	
	p	14	1690	548	1274	—	1950	410	
		22	1690	635	740	733	1920	410	
		23	1689	879	1425	1402	1975	413	
17.0	p	15	1700	641	937	—	1960	413	
17.2	p	16	1731	368	705	—	1900	405	
	p	17	1720	521	1248	—	1918	410	
		24	1720	1099	1210	1211	1998	417	
		18	2027	850	430	—	1916	428	
		1	1721	1050	500	—	1979	419	
		2	—	—	580	—	1990	420	
		3	—	—	679	—	1988	420	
		4	—	—	737	—	1984	416	
		5	—	—	869	—	1971	420	
		6	—	—	1120	—	1970	425	
		7	—	—	1050	—	1972	420	
		8	—	—	1610	—	1959	421	510

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1929phae.proj.126.P

Cl - Dk	Defl. Dk	Defl - Dk	Red. Defl	Red. Defl	Magn.	Lt. No.
1542	684	—	443	—		
1559	798	793	513	509		
1579	909	910	575	576		
1552	832	821	535	529		
1544	882	—	570	—		
1491	786	784	527	525		
1560	728	698	466	447		
1541	796	—	516	—		
1565	479	481	306	307		
1506	534	—	354	—		
1584	966	—	610	—		
1562	992	—	635	—		
1509	820	825	545	547		
1546	864	—	560	—		
1510	330	323	218	214		
1562	1012	989	648	632		
1547	524	—	338	—		
1495	300	—	200	—		
1508	838	—	555	—		
1581	793	794	500	501		
1488	02	—	1	—		
1560	81	—	520	—		
1570	160	—	102	—		
1568	259	—	165	—		
1568	321	—	205	—		
1551	449	—	289	—		
1545	695	—	450	—		
1552	630	—	405	—		
1538	1189	—	773	—		

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1929phae.proj.120.P

FMC R+857 April 10, 1929

strip	class	star	x	y	Diff	Diff	cl	Dh	Volt
		18	2027	864	542	—	2100	499	5.30
		1	1721	1062	581	—	2140	503	
		2	—	—	670	—	2169	509	
		3	—	—	760	—	2165	509	
		4	—	—	850	—	2169	510	
		5	—	—	990	—	2160	509	
		6	—	—	1265	—	1957	510	
		7	—	—	1370	—	2160	510	
		8	—	—	1770	—	2131	518	
17.4	f	25	1740	611	1610	1590	2142	520	
	f	18	1752	672	1593	—	2152	524	
	f	26	1739	781	1220	1210	2160	510	
	f	27	1740	1080	1752	1719	2210	520	
	f	28	1753	1081	1649	1622	2191	510	
	f	29	1751	1090	1753	1749	2190	510	
17.6	f	19	1765	930	1570	—	2102	510	
	f	30	1761	688	1480	1480	2119	510	
	f	31	1770	902	1030	1025	2200	513	
	f	20	1769	1100	1750	—	2165	470	
	f	32	1764	1126	1440	1444	2133	430	
	f	33	1760	1220	~~1700~~ 1651	1662	2080	400	
17.8	f	21	1798	268	1556	—	2030	400	
	f	22	1791	539	1692	—	2020	390	
	f	34	1780	600	1380	1379	2011	380	
	f	23	1790	729	918	—	2045	370	
	f	35	1787	980	1470	1440	2038	360	
	f	36	1788	1146	1620	1600	2040	960	
18.0	f	37	1810	502	732	721	1990	940	
	f	38	R11	812	1260	1260	1989	991	
	f	39	1812	950	420	420	1950	930	

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1929phae.proj.126aP

α.-Dk	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	L. No.
1601	13	—	8	—		
1637	78	—	48	—		
1660	161	—	97	—		
1656	251	—	152	—		
1669	340	—	205	—		
1651	481	—	291	—		
1447	755	—	522	—		
1650	860	—	520	—		
1613	1252	—	776	—		
1622	1090	1070	672	660		
1628	1069	—	657	—		
1650	710	700	430	425		
1690	1232	1199	730	709		
1681	1139	1112	676	662		
1680	1243	1239	740	737		
1592	1060	—	665	—		
1609	970	970	605	605		
1687	517	512	307	303		
1695	1280	—	755	—		
1703	1010	1014				
1680	1251	1262				
1630	1156	—		—		
1630	1302	—		—		
1631	1000	999				
1675	548	—		—		
1678	1110	1080				
1680	1260	1240				
1650	392	381				
1658	929	929				
1620	90	90				

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1929phae.proj.126.P

J. M.C. April 10, 1929 R.A. 857

Strip	Class	Star	y	x	Diff	Diff	cl	Dk	Volt	
18.0		40	1800	1150	1382	1380	1990	929		
		24	1810	1318	1570	—	1989	923		
18.2		25	1820	222	1147	—	1915	920		
		26	1821	690	1184	—	1962	920		
		41	1820	770	1482	1475	1952	918		
		27	1821	1068	1653	—	1980	918		
18.4		42	1850	510	1640	1618	1929	917		
		43	1850	709	1690	1634	1939	910		
		44	1856	960	5~~60~~40	529	1950	910		
		28	1840	1022	1730	—	1950	910		
		29	1854	1340	1011	—	1950	910		
18.6		45	1860	900	1530	1530	1880	910		
		46	1869	940	1500	1498	1888	910		
		30	1877	1352	1234	—	1951	910		
18.8		31	1889	280	1591	—	1856	910		
		32	1895	330	889	—	1900	910		
		47	1890	931	1225	1210	1880	909		
		48	1880	411	1340	1332	1880	909		
		33	1881	580	1569	—	1910	910		
		49	1884	612	1400	1395	1918	910		
		34	1889	912	1352	—	1928	910		
		50	1890	941	1230	1338	1902	910		
		35	1880	1300	1290	—	1920	910		
		18	2027	864	322	—	1875	910		
		1	1721	1062	389	—	1920	910		
		2	—	—	460	—	1920	910		
		3	—	—	582	—	1920	910		
		4	—	—	630	—	1918	910		
		5	—	—	790	—	1910	910		
		6	—	—	1069		1722	912		5.22
		7	—	—	1164	—	1900	912		
		8	—	—	1560	—	1915	916		

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1929phae.proj.126.P

Cl.-Dk	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	L.Ks.
1661	1053	1051				
1666	1247	—				
1595	827	—				
1642	864	—				
1634	1164	1159				
1662	1335	—				
1612	1323	1301				
1629	1310	1305				
1640	230	219				
1640	1420	—				
1640	701	—				
1570	1220	1220				
1598	1190	1188				
1641	924	—				
1546	1281	—				
1590	579	—				
1571	916	901				
1571	1031	1033				
1600	1259	—				
1608	1090	1085				
1618	1042	—				
1592	926	1028				
1610	980	—				
1565	12	—				
1610	79	—				
1610	150	—				
1610	272	—				
1608	320	—				
1600	480	—				
1410	757	—				
1588	862					
1599	1244					

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1929phae.proj.126.P

FMC April 11, 1929 RH 857

Trip	class	star	y	x	Dcl	Dcl	cl	Dk	Volt	C
		18.	2027	824	370	—	1880	342	5.20	
		1	1721	1022	430	—	1940	341		
		2	—	—	532	—	1957	350		
		3	—	—	610	—	1951	356		
		4	—	—	692	—	1960	362		
		5	—	—	862	—	1965	280		
		6	—	—	1131	—	1812	387		
		7	—	—	1259	—	1990	389		
		8	—	—	1600	—	1940	380		
19.0.	f	51	1910	1180	1300	1301	1944	350		
19.2	f	36	1937	260	1390	—	1880	340		
	f	52	1937	1155	888	891	1929	330		
	f	53	1925	1317	1531	1510	1926	330		
19.4	f	54	1956	300	~~1870~~ 1020	1008	1869	320		
	f	55	1949	339	1220	1220	1860	320		
	f	37	1951	365	1320	—	1860	320		
	f	38	1939	690	1080	—	1819	320		
	f	56	1948	978	1090	1090	1888	314		
	f	57	1950	1340	1470	1460	1890	316		
19.6	f	58	1970	1085	1395	1390	1909	316		
	f	39	1969	1090	1234	—	1905	312		
	f	59	1959	1180	1401	1410	1910	315		
19.8	f	60	1990	512	1432	1430	1888	318		
	f	61	1989	1090	1370	1369	1895	312		
20.0	f	40	2000	428	1528	—	1822	317		
	f	41	2013	989	1190	—	1893	316		
	f	42	2013	1343	1451	—	1881	318		
	f	43	2021	189	1400	—	1820	319		
	f	44	2030	279	818	—	1830	317		
	f	45	2038	560	935	—	1870	315		

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1929phot.proj.1264P

Cl.-Dk	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	D. No.
1538	28	—				
1599	89	—				
1607	182	—				
1595	254	—				
1598	330	—				
1585	482	—				
1426	744	—				
1601	870	—				
1560	1220	—				
1594	950	951				
1540	1050	—				
1599	558	561				
1596	1201	1180				
1549	700	688				
1540	900	900				
1540	1000	—				
1499	760	—				
1566	776	776				
1574	1154	1144				
1593	1079	1074				
1583	922	—				
1595	1086	1095				
1570	1114	1112				
1583	1058	1057				
1505	1211	—				
1577	874	—				
1563	1563	—				
1501	1501	—				
1513	1513	—				
1555	1555	—				

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1929phae.proj.126.P

7 MC April 11, 1929 RH857

Trip	class	star	y	x	Defl	Defl	cl	Dk	Volt	C
20.4	f	62	2052	217	1260	1250	1819	318		
	f	46	2040	311	1210	—	1830	320		
	f	47	2040	499	1585	—	1855	320		
	f	63	2055	790	1190	1182	1878	318		
20.6	f	64	2076	188	1410	1383	1809	320		
	f	65	2068	197	1128	1093	1819	320		
	f	66	2070	470	1392	1388	1850	320		
	f	67	2069	522	1231	1230	1860	320		
	f	68	2070	731	1200	1210	1852	320		
	f	69	2070	910	~~755~~ 930	730	1870	320		
	p	48	2068	1042	1590	—	1900	320		
20.8	f	70	2080	341	1130	1115	1830	320		
	f	71	2081	755	1229	1230	1870	322		
	p	49	2081	1142	1370	—	1890	323		
21.0	f	72	2110	370	1370	1371	1820	320		
	f	73	2100	421	1113	1108	1830	320		
	p	50	2104	553	1309	~~1360~~	1860	320		
MRD										
21.2	f	74	2131	550	1100	1100	1835	323		
	f	75	2132	598	1560	1530	1850	330		
	f	76	2118	850	1545	1540	1890	330		
	f	77	2116	1180	1535	1535	1888	330		
21.4	f	78	2152	279	880	880	1810	326		
	f	79	2150	469	1350	1350	1850	330		
	f	80	2144	1083	1330	1330	1889	330		
	f	81	2150	1151	1408	1400	1820	330		
	p	51	2140	1235	1430	—	1852	330		
	p	52	2150	1290	1250	—	1878	330		
21.6	f	82	2160	344	1440	1440	1830	330		
	f	53	2174	380	1460	—	1832	330		

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1929phae.proj.126dP

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	Lt. No.
1501	942	932				
1510	890	—				
1535	1265	—				
1560	862	864				
1489	1090	1063				
1499	808	773				
1530	1072	1068				
1540	911	910				
1532	880	890				
1660	410	410				
1580	1270	—				
1610	810	795				
1548	907	908				
1567	1047	—				
1500	1050	1051				
1510	793	788				
1540	989	—				
1512	777	777				
1520	1230	1200				
1560	1215	1210				
1558	1205	1205				
1484	554	554				
1520	1020	1020				
1569	1000	1000				
1490	1078	1070				
1522	1100	—				
1548	920	—				
1500	1110	1110				
1502	1130	—				

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1929phae.proj.126.P

MRD April 11, 1929, RH 857

Strip	Class	Star	y	x	Defl	Defl	ll	Dk	Volts
	f	83	2165	492	1300	1300	1820	330	
	f	84	2160	902	1320	1320	1870	332	
	fp	54	2160	1000	1420	—	1869	330	
	fp	55	2160	1062	1235	—	1870	331	
	fp	56	2165	1076	910	—	1880	329	
	f	57	2173	1185	1100	—	1895	330	
	f	85	2160	1199	1595	1595	1890	332	
	f	86	2170	1220	1530	1530	1840	330	
	f	1S	2027	824	350	—	1770	330	
		1	1721	1022	410	—	1810	330	
		2	—	—	572	—	1850	330	
		3	—	—	585	—	1825	330	
		4	—	—	665	—	1862	330	
		5	—	—	830	—	1855	330	
		6	—	—	1100	—	1700	330	
		7	—	—	1170	—	1849	330	
		8	—	—	1520	—	1830	332	

			Rgd.	RH857	April	11, 1929			520
		1S	2027	823	416	—	1883	395	
		1	1721	1022	495	—	1942	392	
		2	—	—	560	—	1952	399	
		3	—	—	660	—	1950	397	
		4	—	—	730	—	1941	397	
		5	—	—	898	—	1939	400	
		6	—	—	1159	—	1780	405	
		7	—	—	1235	—	1945	400	
		8	—	—	1590	—	1938	400	
21.8	f	87	2190	962	761	758	1962	405	
	fp	58	2182	1022	1010	—	1970	410	

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1029phae.proj.126.P

Cl.-Dk.	Defl-Dk.	Defl-Dk.	Reduced	Reduced	Magn.	L. No.
1490	970	970				
1538	988	988				
1539	1090	—				
1539	904	—				
1551	581	—				
1565	770	—				
1558	1263	1263				
1510	1200	1200				
1440	20	—				
1480	80	—				
1520	182	—				
1495	255	—				
1532	335	—				
1525	500	—				
1370	770	—				
1519	740	—				
1498	1188	—				
1488	21	—				
1550	103	—				
1553	161	—				
1553	263	—				
1544	333	—				
1539	498	—				
1375?	754	—				
1545	835	—				
1538	1190	—				
1557	336	353				
1560	600	—				

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1929phae.proj.1264P

R.A. 857 - April 11, 1929

Strip	Class	Star	y	b	Dyfl.	Dyfl.	cl.	Dk.	Volts.
	p	59	2189	1087	1189	—	1998	410	
22.0	f	88	2200	680	1030	1003	1970	402	
	p	60	2200	921	1222	—	1962	410	
22.2	f	89	2220	343	471	475	1918	408	
	p	61	2222	606	1472	—	1955	409	
	p	62	2230	800	1494	—	1840	410	
	f	90	2238	1239	992	992	1979	411	
	p	63	2230	1262	749	—	1900	411	
22.4	f	91	2250	342	1504	1502	1940	418	
	p	64	2253	490	1390	—	1942	419	
	p	65	2248	544	956	—	1981	421	
	p	66	2240	578	1010	—	1978	421	
	p	67	2250	712	781	—	1980	415	
22.6	p	68	2270	966	601	—	1979	410	
	p	69	2273	1249	1466	—	1955	412	
22.8	f	92	2290	1008	1522	1520	1930	412	
23.0	f	93	2308	290	1422	1420	1919	412	
	f	94	2309	1218	500	500	1990	420	
	f	95	2304	1240	920	930	1988	411	
23.2	p	70	2326	636	1068	—	1969	415	
	f	96	2329	1038	1402	1392	1986	410	
	f	97	2332	1091	1224	1223	1989	412	
	p	71	2327	1106	1511	—	1988	415	
23.4	p	72	2352	561	1424	—	1951	420	
	f	98	2350	477	790	790	1825	410	
	f	99	2348	939	800	795	1968	410	
23.6	f	100	2374	640	722	722	1951	403	
23.8	p	73	2379	441	1120	—	1935	401	
	f	101	2378	518	1470	1454	1952	408	
24.0	f	102	2407	441	1542	1542	1952	410	

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1929phae.proj.1264P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	W. No.
1588	779	—				
1568	628	601				
1552	812	—				
1510	63	67				
1546	1063	—				
1430	1084	—				
1568	581	581				
1489	338	—				
1522	1086	1084				
1523	971	—				
1560	535	—				
1557	589	—				
1565	366	—				
1569	191	—				
1543	1054	—				
1518	1110	1110				
1507	1010	1008				
1570	80	80				
1577	609	519				
1554	653	—				
1576	992	982				
1577	812	811				
1573	1096	—				
1531	1004	—				
1415	380	380				
1558	390	385				
1548	319	319				
1534	719	—				
1544	1062	1046				
1542	1132	1132				

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1929phae.proj.126xP

R 24857 – April 11, 1929 – HJP.

Strip	Class	Star	y	x	Dyfl	Dxfl	cl.	Dk	Notes
	p	74	2404	1040	1050	—	1931	410	
24.2	p	75	2420	730	867	—	1970	410	
24.4	f	103	2440	478	711	711	1959	410	
24.6	p	76	2476	580	560	—	1970	412	
	p	77	2470	1098	658	—	1981	412	
24.8	p	78	2488	481	1358	—	1952	409	
	f	104	2495	1042	1230	1230	1981	406	
25.0	p	79	2512	559	818	—	1970	402	
25.2	p	80	2530	651	455	—	1980	402	
		10	2027	823	420	—	1890	400	
		1	1721	1022	480	—	1948	400	
Plate finished		2	—	—	542	—	1860	402	
		3	—	—	670	—	1966	401	
		4	—	—	740	—	1959	401	
		5	—	—	900	—	1950	402	
		6	—	—	1132	—	1800	406	
		7	—	—	1231	—	1947	405	
		8	—	—	1600	—	1934	406	520

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1929phae.proj.126:P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced Magn.	D. No.
1521	640	—			
1560	457	—			
1549	301	301			
1558	148	—			
1569	246	—			
1543	949	—			
1575	824	824			
1568	416	—			
1578	53	—			
1490	20	—			
1548	80	—			
1458	140	—			
1565	269	—			
1558	339	—			
1548	498	—			
1394	726	—			
1542	826	—			
1528	1194	—			

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1929phae.proj.126.P

2PP – RA 10 10 – April 15, 1929

noss up

Strip	Class	Star	Y	X	Dyl.	Dyl.	Cl.	Dk	Notes
		10	1945	1049	354	/	1660	313	500
		1	1618	891	383	/	1698	311	
		2	—	—	497	/	1728	311	
		3	—	—	648	/	1705	323	
		4	—	—	639	/	1699	316	
		5	—	—	892	/	1699	320	
		6	—	—	1078	/	1670	320	
		7	—	—	1159	/	1680	321	
		8	—	—	1470	/	1707	340	
13.6	p	1	1373	1000	892	—	1739	329	
13.8	f	1	1381	831	1388	1392	1711	323	
	f	2	1384	1119	1343	1341	1750	327	
14.0	f	3	1404	811	1094	1100	1710	321	
14.2	p	2	1430	907	1131	—	1709	320	
	f	4	1429	930	860	864	1705	320	
14.4	f	3	1445	648	1005	/	1718	321	
	f	5	1451	758	1168	1182	1697	322	
	p	4	1450	1147	914	—	1722	322	
	p	5	1450	1172	1065	—	1730	323	
14.6	f	6	1470	1266	1300	1305	1760	325	
14.8	p	6	1490	580	1120	—	1722	324	
	p	7	1489	764	1254	—	1687	323	
	f	7	1481	950	1020	1020	1700	325	
	p	8	1495	1309	1381	—	1721	325	
15.0	f	8	1510	678	1258	1258	1677	330	
	f	9	1505	694	1320	1320	1693	330	
	p	9	1500	1150	1160	—	1721	330	
15.2	f	10	1530	639	1045	1045	1690	331	
	f	11	1535	647	740	745	1705	330	
	p	10	1530	882	1222	—	1710	331	

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1929phae.proj.1204P

α.-Dk.	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	N. No.
1347	41	—	1s 30	—		
1387	72	—	1 52	—		
1417	186	—	2 131	—		
1382	325	—	3 ? 235	—		
1383	323	—	4 234	—		
1379	572	—	5 415	—		
1350	758	—	6 562	—		
1359	838	—	7 617	—		
1367	1130	—	8 827	—		
1410	563		400	—		960
1388	1065	1069	767	770		32a
1423	1065	1069	749	751		1a
1389	1016	1014	733	731		
1389	811 ~~773~~	~~779~~	586 ~~556~~	~~562~~		926
1385	540 ~~811~~	544	390 ~~556~~	392		3
1397	684 ~~540~~	~~544~~	489 ~~387~~	~~390~~		844
1375	846 ~~684~~	860	677 ~~497~~	687		4
1400	592 ~~846~~	~~860~~	423 ~~605~~	~~615~~		1030
1407	742 ~~592~~	—	526 ~~422~~			1043
1435	975 ~~742~~	980	680 ~~518~~	683		m
1398	796 ~~775~~	~~780~~	570 ~~498~~	~~702~~		809
1364	931 ~~796~~	—	684 ~~585~~	—		880
1375	695 ~~631~~	695	505 ~~479~~	505		5
1396	1056 ~~695~~	~~695~~	756 ~~498~~	~~498~~		
1347	928	928	690	690		2a ?
1363	990	990	727	727		3a
1391	830	—	597	—		1044
1359	714	714	626	526		6
1375	410	415	298	302		7
1379	891	—	647	—		907

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1929phae.proj.120.P

HJP - RH 1010 - April 15, 1929

Strip	Class	Star	y	x	Diff	Diff	Cl	Sc	Volts
	f	12	1532	1250	490	490	1722	331	
	p	11	1530	1376	1090	—	1731	331	
15.4	f	13	1558	600	962	961	1668	340	
	f	14	1540	1000	918	918	1725	340	
15.6	p	12	1561	548	1328	—	1698	340	
	f	15	1560	580	1270	1270	1700	340	
	f	16	1560	940	1180	1181	1740	340	
	f	17	1572	1282	720	720	1730	340	
16.0	p	13	1609	629	1311	—	1703	345	
	p	14	1610	950	1342	—	1720	342	
	p	15	1611	1392	1242	—	1750	341	
16.2	p	16	1615	676	1020	—	1670	340	
16.4	f	18	1650	929	563	568	1695	342	
16.6	f	19	1660	420	620	620	1680	340	
	f	20	1665	1349	560	560	1720	340	
	p	17	1677	1450	719	—	1738	342	
16.8	f	21	1688	450	1072	1075	1664	341	
	f	22	1688	638	1168	1188	1680	340	
	p	18	1689	1139	1150	—	1729	344	
	f	23	1691	1280	950	950	1742	340	
	p	10	1945	1049	410	/	1650	344	
		1	1618	910	440	/	1709	345	
		2	—	—	560	/	1730	345	
		3	—	—	708	/	1708	348	
		4	—	—	662	/	1710	348	
		5	—	—	941	/	1694	350	
		6	—	—	1118	/	1665	350	
		7	—	—	1198	/	1678	351	
		8	—	—	1465	/	1685	351	520

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Q.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1391	159	159	114	114		10
1400	659	—	471	—		1141
1328	612	621	461	468		11
1385	578	578	417	417		9
1358	988	—	726	—		k
1360	930	930	684	684		4 a
1400	840	841	599	600		12
1390	380	380	274	274		13
1360	966	—	710	—		790
1378	1000	—	726	—		948
1409	901	—	641	—		1104
1330	680	—	512	—		805
1353	221	226	163	167		14
1340	280	280	209	209		15
1350	220	220	159	159		17
1396	377	—	270	—		1214
1323	731	734	554	556		d
1340	828	848	618	633		g
1385	806	—	583	—		1109
1402	610	610	436	436		k
1306	66	—	51	—		
1364	95	—	70	—		
1385	215	—	155	—		
1360	360	—	265	—		
1362	314	—	231	—		
1344	591	—	439	—		
1315	768	—	584	—		
1327	847	—	638	—		
1334	1114	—	835	—		

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FMC April 16, 1929 RH 1010

strip	class	star	y	x	Dgll	Dgll	cl	Rh	Volt
		1S	1942	1050	431	—	1708	399	5.08
		1	1618	891	450	—	1719	382	
		2	—	—	522	—	1710	380	
		3	—	—	690	—	1719	379	
		4	—	—	650	—	1700	378	
		5	—	—	841	—	1595	370	
		6	—	—	1050	—	1570	370	
		7	—	—	1111	—	1563	370	4.92
		8	—	—	1360	—	1600	369	
17.0	f	24	1709	719	1330	1330	1561	370	
	f	25	1709	1102	1231	1240	1610	370	
	f	26	1710	1130	860	872	1620	370	
	f	19	1700	1262	1220	—	1640	370	
	f	20	1711	1361	1030	—	1621	370	
	f	27	1700	1390	1240	1370	1620	370	
	f	21	1710	1480	1230	—	1639	370	
17.2	f	28	1729	1169	1010	1020	1670	375	
17.4	f	22	1740	659	1281	—	1630	372	
	f	29	1750	676	862	880	1625	370	
17.6	f	30	1778	399	730	721	1579	372	
	f	31	1770	550	1082	1082	1629	375	
	f	32	1759	610	820	820	1620	370	
	f	33	1770	940	1140	1140	1649	371	
17.8	f	34	1790	570	1200	1205	1590	380	
	f	35	1791	580	1131	1140	1610	373	
	f	23	1789	766	1340	—	1640	379	
		1S	1942	1050	421	—	1628	380	
		1	1618	891	440	—	1622	380	
		2	—	—	542	—	1651	380	
		3	—	—	680	—	1670	380	

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1929phae.proj.1264P

O.-Ck.	Deff.-Ck.	Deff.-Ck.	Reduced	Reduced	Magn.	D. No.
1309	32	—	24	—		
1337	68	—	51	—		
1330	142	—	107	—		
1340	311	—	232	—		
1322	272	—	206	—		
1225	471	—	384	—		
1200	680	—	566	—		
1193	741	—	621	—		
1231	991	—	804	—		
1191	960	960	805	805		too faint
1240	861	870	694	702		33a
1250	490	502	392	402		18
1240	850	—	668	—		1166
1251	660	—	527	—		1208
1250	870	1000	696	800		8a
1269	860	—	678	—		1235
1295	635	645	490	498		20
1258	909	—	722	—		748
1255	492	510	392	407		19
1207	358	349	297	289		22
1254	707	707	564	564		a
1250	450	450	360	360		21
1278	769	769	602	602		23
1210	820	825	677	681		b
1237	758	767	613	620		c
1261	961	—	763	—		765
1248	41	—	32	—		
1242	60	—	48	—		
1271	162	—	127	—		
1290	300	—	232	—		

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FMC April 16, 1929 RH 1010

strip	class	star	x	y	Dyll	Dyll	cl	Rh	Volt
		4	—	—	650	—	1672	380	
		5	—	—	900	—	1660	380	
		6	—	—	1090	—	1630	380	
		7	—	—	1182	—	1660	380	
		8	—	—	1462	—	1631	390	4.98
			xp-	RH 1010 - April 16, 1929					
		15	1945	1050	406	/	1641	381	5.00
		1	1618	891	452	/	1730	390	
		2	—	—	550	/	1773	405	
		3	—	—	698	/	1751	401	
		4	—	—	680	/	1740	408	
		5	—	—	942	/	1757	413	
		6	—	—	1131	/	1730	420	
		7	—	—	1230	/	1766	425	
		8	—	—	1520	/	1752	428	
18.0	p	24	1804	382	1380	—	1738	422	
	p	25	1802	613	1280	—	1740	421	
	p	36	1804	959	1350	1350	1782	431	
	p	26	1800	1122	1230	—	1810	429	
	p	27	1810	1289	1282	—	1811	430	
	p	28	1802	1299	1012	—	1820	439	
	p	29	1808	1321	1149	—	1820	440	
18.2	p	30	1830	435	1388	—	1740	440	
	p	31	1832	561	1480	—	1791	450	
	p	32	1830	958	1368	—	1800	442	
	p	37	1821	1357	1410	1435	1812	440	
18.4	p	33	1850	470	1335	—	1777	451	
	p	38	1841	1010	1390	1391	1808	449	
	p	39	1849	1350	1380	1290	1838	443	
18.6	p	40	1876	770	1260	1258	1768	451	

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1929phae.proj.126dP

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1292	270	—	209	—		
1280	520	—	407	—		
1250	711	—	568	—		
1280	802	—	627	—		
1241	1072	—	864	—		
1260	25	—	20	—		
1340	62	—	46	—		
1368	145	—	106	—		
1350	297	—	220	—		
1332	272	—	204	—		
1344	529	—	394	—		
1310	711	—	544	—		
1335	805	—	603	—		
1324	1092	—	825	—		
1316	958	—	728	—		683 ?
1319	859	—	652	—		713
1351	919	919	680	680		8
1371	791	—	577	—		1171
1381	852	—	617	—		1246
1351	573	—	415	—		1242
1380	709	—	574	—		1256
1300	948	—	730	—		681
1341	1030	—	768	—		688 ?
1358	926	—	684	—		2r
1372	970	995	707	725		11a ?
1326	884	—	667	—		12a
1359	941	941	695	695		12a
1385	859	847	620	613		24
1317	869	801	615	614		26 ?

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1929phae.proj.126.P

DgO - RH 1010 — April 16, 1929

Trip	Class	Star	y	k	Dyk	Dyl	Cl	Dk	Note
	l	41	1860	850	1351	1359	1792	450	
	l	42	1865	897	1378	1380	1804	457	
	l	43	1860	1048	1310	1310	1831	451	
	l	34	1859	1245	1050	—	1839	450	
	p	35	1860	1409	1470	—	1839	450	
18.8	p	36	1892	570	1475	—	1775	451	
	l	44	1890	590	1290	1290	1796	451	
19.0	l	45	1910	320	740	740	1755	450	
	p	37	1900	341	720	—	1760	449	
	l	46	1910	540	900	921	1770	448	
19.2	p	38	1924	364	1420	—	1752	422	
	p	39	1930	558	1260	—	1750	402	
	l	47	1926	648	1418	1418	1421	395	
	l	48	1925	949	730	730	1735	390	
19.4	p	40	1951	622	1041	—	1710	371	
	p	41	1940	740	975	—	1690	374	
	l	49	1950	787	1131	1150	1705	368	
	l	50	1940	1125	950	950	1701	370	
	p	42	1950	1208	1240	—	1700	360	
	l	51	1950	1275	811	811	1691	360	
	p	43	1951	1290	680	—	1688	355	
19.6	l	52	1971	590	1260	1268	1670	355	
	p	44	1959	1442	1040	—	1700	351	
19.8	p	45	1981	550	1053	—	1649	351	
	l	53	1980	1360	1320	1340	1688	351	
20.2	p	46	2030	561	1257	—	1653	350	
	l	54	2035	714	1210	1240	1660	349	
	l	55	2029	1188	1410	1405	1660	350	
	l	56	2030	1190	1250	1265	1665	342	
	l	57	2028	1425	1222	1231	1665	344	

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1929phae.proj.1264P

C.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.	
1342	901	909	671	677		14a	
1347	921	923	684	686		15a	
1380	859	859	622	622		28a	
1389	600	—	433	—		1279?	
1389	1020	—	735	—		8?	
1324	1024	—	773	—		664?	
1316	839	839	637	637		25	
1305	290	290	222	222		29	
1311	271	—	206	—		660?	
1322	452	473	342	357		30	
1330	998	—	750	—		647?	
1348	858	—	636	—		642?	
1326	1023	1023	772	772		X	
1345	340	340	253	253		35	X 1010 85-4
1339	670	—	501	—		625?	
1316	601	—	451	—		21=627?	
1337	763	782	572	586		37	
1331	580	580	434	434		39	29 1646 1615
1340	880	—	651	—		62?	
1334	451	457	339	339		40	3 str 1-4 1
1333	325	—	244	—		56?	
1315	905	913	688	694		41	
1349	689	—	511	—		51?	
1288	702	—	542	—		606?	
1337	969	989	725	740		44	
1303	907	—	697	—		587?	
1311	861	891	657	680		45	
1310	1060	1055	809	806		47	
1323	908	923	687	697		46	
1321	878	887	665	672		48	

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1929phae.proj.126.P

HP-RH 1070 - April 16, 1929

Strip	Class	Star	y	x	Dyl	Dyl.	Cl.	Dk	Plts
		15	1945	1050	400		1620	341	
		1	1618	891	421		1661	348	
		2	—	—	501		1694	338	
		3			654		1671	341	
		4			639		1664	341	
		5			880		1653	345	
		6			1078		1630	340	
		7			1152		1642	342	
		8			1430		1640	343	510
HMC April 17, 29		15	1945	993	490	—	1767	459	5.10
		1	1618	839	504	—	1790	455	
		2	—		600	—	1820	449	
		3	—	—	731	—	1790	449	
		4	—	—	718	—	1790	447	
		5	—	—	975	—	1789	442	
		6	—	—	1164	—	1745	442	
		7	—	—	1240	—	1760	442	
		8	—	—	1530	—	1770	442	
20.4	f	47	2040	1354	1530	—	1180	448	
20.6	f	48	2060	470	1492	—	1771	452	
	f	49	2062	566	1334	—	1771	450	
	f	58	2060	949	1371	1370	1757	444	
	f	50	2070	1158	1480	—	1780	448	
	f	51	2070	1291	1390	—	1762	449	
20.8	f	59	2086	401	1260	1262	1761	450	
	f	60	2089	420	1502	1505	1750	454	
21.0	f	52	2110	1266	1440	—	1773	450	
	f	61	2109	1405	1440	1440	1770	450	
21.2	f	62	2120	498	1520	1520	1750	440	
	f	63	2119	1410	1090	1090	1780	440	

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1929phae.proj.1264P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	D. No.
1279	59	—	46	—		
1313	93	—	56	—		
1356	163	—	120	—		
1330	313	—	235	—		
1326	298	—	225	—		
1308	535	—	409	—		
1290	738	—	673	—		
1300	810	—	623	—		
1297	1087	—	838	—		
1308	31	—	24	—		
1335	49	—	37	—		
1371	151	—	110	—		
1341	282	—	210	—		
1343	271	—	202	—		
1347	633	—	396	—		
1303	722	—	541	—		
1318	798	—	606	—		
1328	1088	—	820	—		
1332	1082	—	811	—		90
1319	1040	—	788	—		583
1321	884	—	667	—		570
1313	926	926	705	705		58
1332	1032	—	774	—		H ?
1313	941	—	716	—		118
1311	810	812	617	619		52
1296	1048	1051	808	811		53
1323	990	—	747	—		b
1320	990	990	750	750		
1310	1080	1080	825	825		17a
1340	650	650	485	485		55 ?

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1929phae.proj.126:P

FMC April 17, 1929 RH 1810

Strip	class	star	y	x	Diff	Diff	cl	Dh	Vol
21.2	f	64	2120	1461	1300	1300	1758	447	
21.4	f	65	2142	395	1120	1123	1730	443	
	f	66	2140	428	1440	1440	1750	449	
	f	67	2149	467	1528	1530	1750	450	
	f	68	2149	700	840	841	1748	441	
	f	53	2155	1128	939	—	1750	449	
	f	69	2140	1167	1510	1510	1770	448	
21.6	f	70	2167	413	1432	1440	1749	450	
	f	71	2160	1091	1110	1110	1749	450	
21.8	f	54	2188	500	1480	—	1759	450	
	f	72	2195	595	1472	1479	1757	453	
	f	55	2179	869	1090	—	1765	452	
	f	73	2194	960	1210	1229	1748	450	
	f	74	2191	1104	1435	1440	1770	450	
	f	75	2190	1427	1140	1140	1770	454	
	f	56	2183	1433	1460	—	1770	450	
		18	1945	993	481	—	1750	450	
		1	1618	839	501	—	1780	449	
		2	—	—	592	—	1810	450	
		3	—	—	740	—	1802	456	
		4	—	—	729	—	1790	458	
		5	—	—	979	—	1790	453	
		6	—	—	1180	—	1735	459	
		7	—	—	1279	—	1770	458	
		8	—	—	1530	—	1770	459	5.10
		HP – RH 1870 – April 17, 1929							510
		10	1945	992	428	—	1653	397	
		1	1618	838	460	—	1710	402	
		2	—	—	540	—	1742	409	
		3	—	—	683	—	1720	411	

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1929phae.proj.1264P

A.-Dk.	Defl.-Dk	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1311	853	853	650	650		18a
1287	677	680	526	528		double?
1301	991	991	760	760		56
1300	1078	1080	829	831		too faint
1307	399	400	306	307		57
1301	496	—	377	—		205
1322	1062	1062	804	804		58
1299	982	990	757	763		59
1299	660	660	508	508		60
1309	1030	—	787	—		541
1304	1019	1026	781	787		62 ?
1313	628	—	478	—		376
1298	760	774	587	601		65
1320	985	990	747	750		66
1316	686	686	522	522		20a
1320	1010	—	765	—		135
1300	31	—	24	—		
1331	52	—	39	—		
1360	142	—	104	—		
1346	284	—	211	—		
1332	271	—	203	—		
1337	526	—	394	—		
1276	721	—	566	—		
1312	821	—	627	—		
1311	1071	—	817	—		
1256	31	—	25	—		
1308	58	—	44	—		
1333	131	—	98	—		
1309	272	—	208	—		

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1929phae.proj.126.P

HJO-RH 10 10 — April 17, 1929

trip	class	star	y	y	Dyf	Dyf	d	Dh Volt
		4			664		1716	419
		5	—	—	922	—	1712	420
		6	—	—	1133	—	1690	425
		7	—	—	1199	—	1712	421
		8	—	—	1476	—	1711	425
22.0	p	57	2205	494	955	—	1705	430
	f	76	2211	1400	1288	1288	1733	439
	f	77	2215	1404	950	968	1747	430
22.2	f	78	2239	628	1362	1390	1722	440
	p	58	2220	923	1330	—	1719	442
	f	79	2220	995	939	940	1730	449
	p	59	2234	1050	1389	—	1736	448
	p	60	2230	1281	1000	—	1721	441
22.4	f	80	2240	820	1410	1425	1728	445
	f	81	2238	1305	1410	1410	1738	450
22.6	f	82	2278	498	1250	1235	1703	450
	p	61	2264	500	1388	—	1731	453
	p	62	2270	1050	1100	—	1730	450
	f	83	2275	1122	1040	1040	1741	450
	p	63	2261	1152	1150	—	1765	453
	f	84	2270	1333	1279	1282	1741	448
22.8	p	64	2290	390	1380	—	1715	460
	f	85	2280	498	1270	1260	1715	462
	f R 85a	65	2284	911	1460	1470	1668	462
		10	1945	992	580	—	1741	463
		1	1618	838	521	—	1780	460
		2	—	—	590	—	1809	455
		3	—	—	738	—	1783	460
		4	—	—	746	—	1758	453
		5	—	—	1050	—	1776	463

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1929phae.proj.1264P

Cl.-Dk.	Defl.-Dk	Defl.-Dk.	Reduced	Reduced	Mag	L.No.
1291	245	—	189	—		
1292	502	—	389	—		
1265	708	—	560	—		
1291	778	—	603	—		
1286	1051	—	819	—		
1675	525	—	314	—		536
1294	849	849	656	656		68
1317	620	538	395	408		69
1282	922	958	718	740		70
1277	888	—	695	—		338
1281	490	491	382	383		67=940
1288	941	—	732	—		274
1280	559	—	437	—		183
1283	965	980	752	764		71
1288	960	960	747	747		73
1253	800	785	639	627		75
1278	935	—	733	—		523
1280	650	—	509	—		279
1291	590	590	467	457		78
1312	697	—	532	—		240
1293	831	834	644	645		79
1255	920	—	734	—		534
1253	808	798	645	638		75
1206	998	1008	828	836		77
1278	37	—	29	—		
1320	61	—	46	—		
1354	135	—	96	—		
1323	278	—	210	—		
1305	293	—	224	—		
1313	587	—	448	—		

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1929phae.proj.126xP

Strip	class	Star	y	x	Dyll	Dyll.	Cl.	Dk.	Volts
		6	—	—	1160	—	1744	460	
		7	—	—	1248	—	1761	460	
		8	—	—	1528	—	1769	461	510
FMC April 8, 1929		15	1945	986	395	—	1690	360	5.21
		1	1618	829	420		1703	340	
		2	—	—	500	—	1731	333	
		3	—	—	670	—	1712	328	
		4	—	—	630	—	1690	321	
		5	—	—	900	—	1680	318	
		6	—	—	1090	—	1640	317	
		7	—	—	1150	—	1649	311	
		8	—	—	1410	—	1647	318	
23.0	f	86	2305	558	1232	1235	1620	305	
	f	66	2300	689	1280	—	1627	305	
	f	67	2299	1030	960	—	1602	305	
	f	87	2297	1040	1040	1040	1619	302	
	f	88	2304	1300	1400	1400	1617	300	
23.2	f	68	2337	485	1330	—	1580	300	
	f	69	2335	600	966	—	1561	301	
	f	89	2318	678	1140	1140	1605	300	
	f	90	2321	1370	830	832	1636	300	
23.4	f	91	2349	605	1175	1180	1521	300	
	f	92	2350	939	1240	1240	1603	300	
	f	70	2350	1010	1230	—	1615	300	
	f	71	2340	1130	1270	—	1620	300	
	f	93	2339	1295	1230	1230	1620	300	
	f	72	2354	1326	1279	—	1620	300	
23.6	f	73	2371	569	1399	—	1560	300	
	f	94	2359	814	1370	1370	1610	300	
	f	95	2358	896	1380	1380	1600	300	

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Obs.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1284	700	—	546	—		
1301	788	—	601	—		
1308	1067	—	812	—		
1330	35	—	26	—		
1363	80	—	59	—		
1398	167	—	120	—		
1384	342	—	247	—		
1369	309	—	226	—		
1362	582	—	428	—		
1323	773	—	584	—		
1338	839	—	627	—		
1334	1097	—	822	—		
1315	927	930	705	707		80
1322	975	—	737	—		451
1297	655	—	504	—		29H
1317	738	738	561	561		81
1317	1100	1100	836	836		83
1280	1030	—	804	—		509
1280	665	—	528	—		47H
1305	840	840	643	643		82
1336	530	532	397	399		22a
1221	875	880	715	718		84
1303	940	940	722	722		89
1315	930	—	707	—		2a
1320	970	—	935	—		264
1320	930	930	705	705		85
1320	979	—	742	—		206
1260	1099	—	871	—		
1310	1070	1070	816	816		87
1300	1080	1080	831	831		88

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FMC April 18, 1929 RH 1010

Strip	Class	Star	y	x	Defx	Defy	cl	Dk	Volts
23.6	f	96	2379	1278	900	900	1625	300	
23.8	f	74	2388	480	1140	—	1580	300	
	f	75	2381	620	1290	—	1565	300	
	f	76	2390	738	1202	—	1584	300	
	f	97	2380	785	1300	1300	1600	300	
	f	77	2391	1198	1382	—	1618	300	
	f	78	2389	1247	738	—	1604	300	
24.0	f	98	2411	456	1290	1289	1570	300	
	f	79	2414	710	936	—	1512	300	
	f	80	2401	889	1353	—	1588	300	
	f	99	2407	1121	1390	1390	1590	302	
24.2	f	100	2430	645	1402	1404	1572	300	
	f	101	2420	1168	1030	1030	1575	303	
	f	102	2421	1195	1170	1170	1587	310	
	f	81	2426	1265	910	—	1620	320	
24.4	f	103	2449	892	1310	1310	1610	330	
	f	82	2455	1090	1114	—	1610	330	
24.6	f	104	2470	629	1315	1315	1600	338	
	f	105	2465	1161	1220	1220	1610	340	
24.8	f	83	2490	658	1360	—	1600	340	
	f	106	2490	671	1140	1140	1598	332	
25.2	f	107	2531	885	610	610	1580	320	
25.4	f	108	2540	942	1350	1350	1600	317	
	f	15	1945	986	980	—	1610	310	
		1	1618	829	410	—	1630	310	
		2	—	—	490	—	1659	312	
		3	—	—	663	—	1660	310	
		4	—	—	619	—	1648	310	
		5	—	—	891	—	1634	311	
		6	—	—	1060	—	1590	310	
		7	—	—	1130	—	1600	309	
		8	—	—	1390	—	1611	310	

Plate finished

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1929phxr.proj.1204P

α.-Dk.	Defl.-Dk	Defl.-Dk.	Reduced	Reduced	Magn.	D. No.
1325	600	600	453	453		91
1280	840	—	656	—		498
1265	990	—	782	—		457
1284	902	—	702	—		420
1300	1000	1000	768	768		90
1318	1082	—	821	—		225
1304	438	—	336	—		239
1270	990	989	773	772		
1212	636	—	525	—		426
1288	1053	—	817	—		93
1288	1088	1088	844	844		23a
1272	1102	1104	856	868		94
1272	727	727	571	571		95
1277	860	860	673	673		96
1300	590	—	453	—		242
1280	980	980	765	765		97
1280	784	—	612	—		297
1262	977	977	773	773		97
1270	880	880	694	694		25a?
1260	1020	—	808	—		1a
1266	808	808	638	638		98
1260	296	290	230	230		99=903
1283	1033	1033	804	804		100
1300	70	—	54	—		
1320	100	—	76	—		
1347	178	—	132	—		
1350	?353	—	264	—		
1338	309	—	231	—		
1323	580	—	438	—		
1280	750	—	585	—		
1291	821	—	630	—		
1301	1080	—	829	—		

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Strip	class	Star	y		y	Diff	Diff	d	Dk	Volts

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Strip	class star	y	x	Dgfl	Dgfl	Dgfl	dl	dk

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April 29, 1929 RH 1123 MRD 2nd Diaphragm

Strip	Class	Str	y	x	Defe	Defe	Defe	Cl	Dk
		1s	1875	794	310	310	320	640	310
		1	1840	431	340	350	380	730	320
		2	—	—	340	365	410 (also another star in field)	725	305
		3	—	—	360	410	480	700	300
		4	—	—	370	420	500	710	304
		5	—	—	420	480	565	710	304
		6	—	—	500	570	635	708	305
		7	—	—	530	590	650	710	305
		8	—	—	620	660	685	705	306
13.8			1379	600	490	550	600	630	320
			1390	765	375	420	500	660	330
			1385	810	535	585	630	670	328
14.0			1409	680	500	550	580	610	330
		1s	1875	793	330	335	345	540	340
		1	1840	430	350	360	380	600	330
		2	—	—	350	370	400	605	335
		3	—	—	380	420	470	610	335
		4	—	—	390	430	478	610	330
		5	—	—	415	460	510	610	340
		6	—	—	470	520	560	600	328
		7	—	—	500	530	570	609	325
		8	—	—	540	570	590	600	320
FMC		1s	1875	818	280	280	290	535	280
April 30, 1929		1	1840	451	290	310	330	609	282
		2	—	—	310	340	370 (also another star)	610	280
		3	—	—	341	362	421	610	283
		4	—	—	360	420	460	618	289
		5	—	—	394	440	500	608	289
		6	—	—	452	500	550	603	290
		7	—	—	470	520	561	610	290
		8	—	—	550	570	589	606	290

High wind shakes building

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1929phae.proj.126.P

				1	2	3		
Cl-Dk	Defe-Dk	Defe-Dk	Defe-Dk	Red Defe	Red Defe	Red Defe	Mag	L.No
255	0	0	10	0	0	40		
327	8	28	48	24	85	147		
330	30	60	90	91	182	omitted 223		
327	58	79 ✓	138	177	242	422		
329	71	131 ✓	171	216	398	520		
319	105	151	211	329	473	660		
313	162	210	260	517	670	830		
320	180	230	271	563	718	846		
316	260	280	299	823	886	948		

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FMC April 30, 1929 RH 1123

trip	class	star	y	x	Dyl	Dyl	Dyl	cl	Dh
13.8	p		1379	621	464	510	553	560	290
			1390	789	348	391	462	611	292
			1387	833	501	549	583	620	294
14.0			1409	702	484	531	568	605	292
14.2			1420	560	528	560	590	610	295
			1430	771	520	560	590	610	298
14.6			1459	721	530	570	600	610	300
14.8			1485	777	450	509	559	620	305
			1489	949	526	569	600	620	300
15.0			1510	450	478	530	570	610	300
			1509	1050	430	495	532	609	300
15.2			1539	440	422	480	533	606	300
15.4			1550	831	549	579	600	610	305
15.6			1559	480	489	535	567	561	302
			1570	834	460	505	550	610	302
15.8			1589	820	420	473	523	604	304
16.0			1611	280	430	490	544	610	305
			1601	821	482	530	570	602	302
16.2			1628	860	409	471	520	590	303
			1620	1049	525	560	597	614	302
16.4			1658	852	519	550	579	600	300
			1639	966	330	350	414	600	300
16.6			1668	640	470	520	568	599	302
16.8			1682	1080	510	550	580	604	307
17.0			1709	922	450	500	550	600	309
17.2			1730	300	498	533	570	608	309
			1738	720	480	519	560	586	308
			1729	1100	505	558	586	611	301
17.6			1775	1209	380	445	510	620	303
17.8			1789	477	525	560	585	605	306

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1929phae.proj.126.P

				1	2	3	
O-Dk.	Defl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Reduced	
270	174	220	263	644	814	1000	762, 781, –
319	56	99	170	176	310	533	578, 588, 602
326	207	255	289	635	782	886	757, 764, 757
313	192	239	276	613	763	882	749, 754, 754
315	233	265	295	739	840	935	800, 797, 805
312	222	262	290	712	839	929	789, 797, 798
310	230	270	300	742	871	968	801, 819, –
315	145	204	254	460	647	805	
320	226	269	300	705	840	936	
318	178	230	270	575	741	870	
309	130	195	232	420	630	750	
306	122	180	233	398	589	762	
305	244	274	295	800	901	967	
259	187	233	265	721	960	1005	
208	158	203	248	760	975	1180	
300	116	169	219	388	565	730	
305	125	185	239	409	606	784	
300	180	228	268	600	759	893	
287	106	168	217	353	567	730	
312	223	258	295	715	826	945	
300	219	250	279	730	834	930	
300	30	50	114	92	167	380	
297	168	218	266	566	734	895	
297	203	243	273	684	817	919	
291	141	191	249	484	656	855	
299	189	224	261	632	749	871	
278	172	211	252	619	760	906	
310	204	254	285	658	830	920	
317	77	142	207	243	448	652	
299	219	254	279	732	848	933	

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MRD April 30, 1928 RH 1123

strip	class	star	y	x	Dyll	Dyll	Dyll	cl	Dh
			1792	540	550	570	591	600	305
			1792	1342	495	550	590	618	308
18.0			1805	374	510	545	580	600	308
			1800	1010	525	565	591	610	310
18.4			1849	263	540	570	594	609	310
			1840	880	535	567	590	598	307
18.6			1870	520	550	575	585	600	310
			1870	1067	370	418	480	603	310
18.8			1885	276	515	550	575	590	306
			1890	470	530	560	580	590	306
			1880	1330	325	350	400	620	305
			1883	1373	380	428	495	620	306
19.0			1900	670	490	535	578	594	305
			1902	1170	435	490	540	613	304
19.2			1925	1310	498	580	604	620	304
19.4			1955	1230	510	555	590	610	307
19.6			1964	180	460	515	555	606	308
19.8			1978	1096	520	560	590	603	308
			1995	1125	410	460	520	605	304
20.2			2030	275	545	573	585	600	305
			2027	340	440	500	545	600	307
			2020	1145	405	460	520	609	308
		18	1875	818	305	310	315	520	302
		1	1840	451	310	320	345	578	305
		2	—	—	330	350	375	580	305
		3	—	—	350	385	440	590	305
		4	—	—	365	410	452	595	307
		5	—	—	397	440	495	590	307
		6	—	—	450	495	545	590	310
		7	—	—	470	520	555	597	310
		8	—	—	530	560	580	590	307

also another star

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O. Dk.	Defl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Reduced
296	245	265	286	831	698	968
310	184	242	282	603	781	910
292	202	237	272	692	802	932
300	215	255	281	717	850	935
299	230	260	284	769	870	950
291	228	260	283	783	893	972
290	240	265	276	828	913	949
293	60	108	170	204	369	581
284	209	244	269	736	858	948
284	224	254	274	788	893	964
315	20	45	95	64	143	301
314	74	122	189	235	388	602
289	185	230	273	640	796	943
309	131	186	236	424	586	763
316	194	276	300	615	865	950
303	203	248	283	671	818	933
298	152	207	247	510	695	829
295	212	252	282	718	854	954
301	106	154	216	353	512	718
295	240	268	280	813	902	950
293	133	143	238	454	658	813
301	97	152	212	322	505	704
218	3	8	13	14	37	60
273	.5	15	40	18	55	147
275	25	45	70	91	164	254
285	45	80	135	158	280	474
288	58	103	145	204	358	504
283	90	133	188	318	470	675
284	144	189	239	507	665	842
				~~500~~	745	~~942~~
287	160	210	245	567	731	854
283	223	253	273	788	894	965

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1929phae.proj,126.P

150 Harv. Series H. J. T. May 16th 29 RH 963 Rejected for pole on large residual

Strip	Class	Star	y	x	Diff.	Diff.	Cl.	Dk.	Watts
		1S	2111	763	290	—	710	260	530
		1	2070	1174	310	—	791	275	
		2	—	—	313	—	740	275	
		3	—	—	367	—	735	280	
		4	—	—	380	—	780	275	
		5	—	—	461	—	758	280	
		6	—	—	513	—	769	278	
		7	—	—	518	—	771	280	
		8	—	—	640	—	741	280	
17.6	f	1	1769	834	430	430	770	289	
	p	1	1760	1283	600	—	821	290	
17.8	f	2	1789	818	514	511	791	288	
	p	2	1795	848	548	—	780	290	
18.0	f	3	1800	403	491	492	760	291	
	p	3	1809	1079	600	—	802	301	
18.2	f	4	1819	399	435	435	780	301	
	f	5	1820	707	478	478	778	300	
	f	6	1828	970	611	615	779	302	
	f	7	1820	1130	538	538	817	305	
	p	4	1825	1220	592	—	810	301	
	p	5	1819	1340	528	—	810	302	
18.4	f	8	1839	333	555	560	763	300	
	f	9	1841	458	534	534	752	296	
	f	10	1853	490	500	500	772	300	
	f	11	1850	619	581	581	771	302	
18.6	p	6	1873	360	637	—	770	305	
	f	12	1870	373	560	560	772	300	
	f	13	1871	421	621	620	760	298	
	f	14	1860	625	450	449	769	291	

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1929phae.proj.126aP

Cl-Obs	Defl-Obs	Defl-Obs	Red-Defl	Red-Defl	Mag.	L.No
450	30	—	67	—		
522	35	—	67	—		
465	38	—	82	—		
455	87	—	191	—		
505	105	—	208	—		
478	181	—	378	—		
491	235	—	478	—		
491	338	—	689	—		
461	360	—	780	—		
481	141	141	293	293		
531	310	—	585	—	7.51	k ?
503	226	223	450	444		
490	288	—	587	—	7.52	601
469	200	201	426	428		
501	299	—	596	—	7.56	748
479	134	134	280	280		
478	178	178	372	372		
477	309	313	647	655		
512	233	233	455	455		
509	291	—	572	—	7.46	790
508	226	—	445	—	6.94	809
463	255	260	550	560		
456	238	238	520	520		
472	200	200	425	425		
469	279	279	595	595		
465	332	—	715	—	8.06	
472	260	260	552	552		
462	323	322	700	699		
478	159	158	332	330		

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New Series

DGP - RH 963 - May 16, 1929

Strip	Class	Star	Y	X	Deff	Dgh	Cl	Ck	Obs
	f	15	1860	667	620	626	660	290	
	p	7	1860	856	439	—	790	292	
	p	8	1868	1193	471	—	805	292	
18.8	f	16	1875	230	631	631	770	290	
	f	17	1883	440	499	500	753	293	
	p	9	1898	1000	635	—	800	300	
	f	18	1888	1096	536	536	790	298	
	p	10	1892	1361	507	—	810	296	
19.0	f	19	1901	272	610	612	758	296	
	f	20	1908	1287	607	607	812	295	
19.2	p	11	1920	250	440	—	760	290	
	p	12	1920	580	480	—	752	293	
	f	21	1928	720	631	631	767	295	
	f	22	1931	870	608	608	778	291	
	f	23	1929	1164	560	560	799	295	
19.4	f	24	1940	885	572	575	778	300	
19.6	f	25	1967	270	500	500	760	297	
	f	26	1970	304	530	528	758	298	
	p	13	1960	527	578	—	752	300	
	f	27	1961	1039	480	474	782	300	
	f	28	1973	1109	598	600	793	300	
		14	2111	763	313	/	763	300	
		1	2070	1124	346	/	791	299	
		2	—	—	338	/	740	300	
		3	—	—	379	/	740	300	
		4	—	—	400	/	791	300	
		5	—	—	470	/	761	301	
		6	—	—	532	/	774	303	
		7	—	—	540	/	788	301	
		8	—	—	652	/	751	300	525

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1929phae.proj.126.P

Cl. Dk	Defl. Dk	Defl. Dk	Red. Defl.	Red. Defl.	Mag.	L. No.
370	335	336	905	907		
498	147	—	295	—	6.30	627
513	179	—	350	—	6.53	805
480	341	341	710	710		
460	206	157	447	342		
500	335	—	670	—	7.87	765
492	238	238	485	485		
514	211	—	410	—	6.78	844
462	314	316	680	685		
517	312	312	604	604		
470	150	—	319	—	6.42	
459	187	—	406	—	6.76	976
472	336	336	713	713		
487	317	317	650	650		
504	265	265	525	525		
478	272	275	567	574		
463	203	203	440	440		
460	232	230	505	500		
452	278	—	615	—	7.65	338
482	180	174	374	362		
493	298	300	605	610		
463	13	—	28	—		
492	47	—	96	—		
440	38	—	87	—		
440	79	—	180	—		
491	100	—	204	—		
460	169	—	367	—		
474	232	—	490	—		
487	239	—	490	—		
451	352	—	780	—		

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New Series

FMC RH 963 May 17, 1929

Temp	Class	Star	y	x	Dyfl	Dyfl	cl	Dk	Volt	Cl
		18	2111	709	350	—	802	280		
		1	2070	1069	382	—	848	271		
		2	—	—	399	—	789	274		
		3	—	—	451	—	793	277		
		4	—	—	490	—	840	277		
		5	—	—	575	—	810	280		
		6	—	—	695	—	840	280		
		7	—	—	644	—	842	285		
		8	—	—	730	—	818	288		
19.8		29	1990	450	701	705	817	290		
		30	1980	542	630	625	809	290		
		31	1980	963	689	685	849	290		
		32	1985	963	632	635	845	290		
		33	1987	1033	703	708	839	290		
		14	1990	1230	721	—	865	290		
20.0		15	2008	318	661	—	800	285		
		34	2017	468	578	580	785	279		
		35	2017	498	610	610	782	278		
		36	2008	813	718	724	825	278		
		37	2000	1000	710	710	830	279		
20.2		38	2018	250	680	680	783	277		
		39	2031	759	670	670	798	278		
		16	2038	920	730	—	818	275		
		17	2022	1050	720	—	840	279		
		18	2032	1332	680	—	840	279		
20.4		19	2049	190	569	—	780	273		
		20	2040	360	535	—	769	272		
		40	2050	862	685	688	765	272		
		41	2040	477	480	482	760	272		
		42	2049	559	629	621	760	272		

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1929phae.proj.1254P

Cl-Dk	Dyfl. Dk	Dyfl-Dk	Red Dyfl	Red Dyfl	Mag.
522	70	—	134	—	
577	111	—	192	—	
515	125	—	242	—	
516	174	—	337	—	
563	213	—	378	—	
530	295	—	556	—	
560	355	—	634	—	
557	359	—	645	—	
530	442	—	832	—	
527	411	415	780	785	
519	340	335	655	645	
559	399	395	715	707	
556	342	345	615	620	
549	413	418	752	763	
575	431	—	750	—	7.77
575	376	—	730	—	7.618
506	299	301	590	594	
504	332	332	660	660	
547	440	446	805	815	
561	431	431	781	781	
506	403	403	795	795	
530	392	392	755	755	
543	455	—	840	—	8.22
561	441	—	786	—	7.96
561	401	—	715	—	7.60
507	296	—	583	—	6.96
497	263	—	529	—	6.70
493	413	416	838	845	
488	208	210	425	430	
488	359	349	730	715	

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New Series

F.M.C. M.R.D. RH963 May 17, 1929

Trip	class	Star	y	x	Dyfe	Dyfe	cl	Dh	Volt
20.4	f	43	2049	661	535	539	772	274	
	f	44	2057	938	580	580	810	277	
20.6	f	45	2070	160	718	710	782	279	
	f	46	2059	380	722	721	785	280	
	f	21	2061	381	561	—	766	280	
	f	47	2071	408	711	713	775	280	
	f	22	2074	413	661	—	779	280	
	f	48	2071	799	677	682	790	280	
	f	23	2060	842	650	—	791	280	
	f	49	2070	850	658	662	791	280	
	f	30	2069	900	642	648	812	280	
20.8	f	Star	2069	1032	480	—	810	280	
	f	51	2077	1189	720	720	839	280	
	f	52	2095	202	579	581	780	280	
	f	53	2090	250	628	630	779	282	
	f	54	2082	419	681	680	771	282	
	f	55	2079	509	691	692	760	281	
	f	56	2082	730	520	522	780	280	
	f	57	2080	780	678	679	800	280	
	f	24	2090	1151	660	—	820	280	
	f	58	2091	1160	455	455	822	280	
	f	59	2090	1173	470	472	821	280	
21.0	f	60	2109	400	532	530	780	280	
	f	61	2110	959	660	662	820	281	
	f	62	2104	1051	705	712	829	288	
	f	63	2110	1180	710	712	818	282	
MRD	p	25	2103	1240	712	—	820	282	
21.2	p	26	2122	290	650	—	770	280	
	p	27	2130	361	710	—	780	280	
	p	28	2126	1057	690	—	800	280	

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1929phae.proj.1264P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.
498	261	265	476	484	
533	303	303	569	569	
503	481	431	856	856	
505	442	441	874	873	
486	281	—	578	—	6.94
495	431	433	870	874	
499	381	—	763	—	7.84
510	397	402	777	785	
511	370	—	725	—	7.65
511	378	382	740	748	
532	362	368	680	692	
559	440	440	786	786	
500	299	301	597	603	
497	346	348	695	699	
489	399	398	815	814	
479	410	411	855	856	
500	240	242	480	485	
520	398	399	765	766	
540	380	—	704	—	7.54
542	175	175	323	323	
541	190	192	351	354	
500	252	250	500	504	
539	379	371	704	689	
546	422	429	770	785	
536	428	430	800	801	
538	430	—	798	—	8.00
490	370	—	755	—	7.80
500	430	—	860	—	8.32
520	410	—	790	—	7.97

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1929phae.proj.126.P

158 M.R.D. May 17, 1929 RH963

Temp	Class	star	y	x	Dyes	Dyes	cl	Dh	Volt
	f	64	2100	1059	720	720	827	281	
	f	65	2130	1207	538	538	820	280	
	fp	29	2124	1311	680	—	822	280	
21.4	fp	30	2149	135	605	—	770	280	
	p	31	2154	146	700	—	770	280	
	f	66	2140	165	450	450	770	283	
	f	67	2140	300	5-5-5	5-5-5	790	281	
	f	68	2154	745	710	710	790	283	
	f	69	2135	945	720	720	810	283	
	f	70	2140	1110	590	590	815	282	
	f	71	2150	1154	702	702	822	282	
	fp	32	2143	1240	610	—	810	280	
21.6	fp	33	2140	216	660	—	770	282	
	fp	34	2162	359	580	—	789	282	
	fp	35	2170	465	520	—	770	280	
	fp	36	2162	655	700	—	770	280	
	f	72	2160	1053	700	700	800	283	
	fp	37	2170	1270	730	—	812	283	
21.8	fp	38	2190	233	721	—	780	281	
	fp	39	2189	263	700	—	777	283	
	f	73	2190	355	665	665	770	281	
	f	74	2175	548	640	640	760	282	
	f	75	2180	1140	672	672	810	285	
	f	76	2180	1249	690	690	808	285	
22.0	f	77	2210	380	580	580	770	282	
	f	78	2200	401	700	700	780	283	
	f	79	2200	420	680	680	760	282	
	f	80	2210	972	630	630	808	282	
	f	81	2200	1230	605	605	812	283	
22.2	f	82	2220	155	700	700	760	280	

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1929phae.proj.1264P

U.-Dk.	Depl.-Dk.	Depl.-Dk.	Reduced	Reduced	Mag.	L.No.
546	439	439	804	804		
540	258	258	477	477		
542	400	—	740	—	7.73	
490	325	—	663	—	7.35	
490	420	—	855	—	8.29	
487	167	167	342	342		
509	274	274	538	538		
507	427	427	842	842		
527	437	437	830	830		
533	308	308	580	580		
540	420	420	775	775		
530	330	—	623	—	7.15	
488	378	—	775	—	7.89	
507	298	—	586	—	6.97	
490	240	—	490	—	6.50	
490	420	—	855	—	8.29	
517	417	417	806	806		
529	447	—	845	—	8.24	
499	440	—	881	—	8.43	
484	417	—	863	—	8.34	
489	384	384	785	785		
478	368	368	748	748		
525	387	387	737	737		
523	405	405	775	775		
488	298	298	610	610		
497	417	417	840	840		
478	398	398	830	830		
526	348	348	660	660		
529	322	322	610	610		
480	420	420	875	875		

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1929phae.proj.126aP

M.R.D. May 17, 1929 R+963

New Series

Strip	Class	Star	y	x	dcle	dcle	cl	dcl
	f	40	2223	162	490	—	760	280
	f	41	2219	208	420	—	770	281
	f	83	2220	439	696	695	755	280
	f	84	2220	524	555	555	760	281
	f	42	2229	538	670	—	760	281
	f	43	2230	820	625	—	790	283
	f	85	2215	1149	605	605	807	286
22.4	f	86	2250	160	560	560	760	284
	f	87	2250	261	675	675	760	285
	f	88	2250	479	690	690	750	283
	f	89	2254	487	640	640	755	283
	f	90	2250	650	700	700	750	285
	f	91	2250	790	695	695	760	285
	f	44	2243	851	701	—	780	286
	f	92	2250	904	547	547	780	286
	f	93	2242	910	550	550	780	285
	f	94	2243	1090	710	710	775	284
	f	95	2245	1135	721	721	792	288
	f	96	2250	1219	720	720	800	289
		15	2111	709	333	—	735	285
		1	2070	1069	380	—	810	285
		2	—	—	382	—	762	285
		3	—	—	443	—	745	285
		4	—	—	472	—	801	289
		5	—	—	540	—	765	288
		6	—	—	600	—	775	288
		7	—	—	610	—	785	289
		8	—	—	680	—	750	287

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1929phae.proj.1264P

Cl-Dk	Dff-Dk.	Dff-Dk	Red Dff	Red Dff	Mag.
480	210	—	447	—	6.38
489	139	—	284	—	5.50
475	416	416	875	874	
479	274	274	572	572	
479	389	—	813	—	8.08
507	342	—	675	—	7.43
521	319	319	612	612	
476	276	276	580	580	
475	390	390	820	820	
467	407	407	870	870	
472	357	357	756	756	
465	415	415	890	890	
475	410	410	865	865	
494	415	—	840	—	8.22
494	261	261	528	528	
496	266	265	535	535	
491	426	426	867	867	
504	433	433	860	860	
511	431	431	843	843	
450	48	—	107	—	
525	95	—	181	—	
477	97	—	208	—	
460	158	—	343	—	
512	183	—	358	—	
477	252	—	527	—	
487	312	—	640	—	
496	321	—	646	—	
463	398	—	850	—	

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New Series

ZgP – RH 963 – May 17, 1929

Strip	Class	Star	Y	X	Dyfl	Dyfl.	α	Δt	Volts
		10	2111	708	305	—	713	259	530
		1	2070	1069	352	—	782	260	
		2	—	—	352	—	729	260	
		3	—	—	420	—	722	260	
		4	—	—	443	/	774	260	
		5	—	—	513	/	738	260	
		6	—	—	561	/	749	260	
		7	—	—	580	/	768	261	
		8	—	—	660	/	731	261	
22.6	l	97	2275	596	632	632	718	262	
	l	98	2272	870	343	343	740	267	
	l	99	2263	1116	651	650	762	268	
22.8	l	100	2286	342	581	582	720	263	
	l	101	2282	360	645	643	721	263	
	p	45	2290	580	630	—	710	265	
	l	102	2283	780	643	642	730	268	
	l	103	2280	809	503	503	747	266	
	p	46	2281	923	560	—	748	269	
23.0	l	104	2309	200	550	550	733	269	
	p	47	2309	212	563	—	724	268	
	p	48	2300	349	452	—	710	268	
	p	49	2301	640	528	—	710	268	
	p	50	2309	819	624	—	739	270	
	l	105	2312	969	590	584	742	270	
	l	106	2309	1068	645	645	753	270	
	l	107	2310	1071	602	602	750	270	
23.2	l	108	2328	330	461	461	702	270	
	p	51	2320	464	599	—	704	270	
	l	109	2329	560	581	581	717	271	
	l	110	2321	610	499	501	707	270	

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1929phae.proj.1264P

Cl.-Dk.	Deff.-Dk.	Deff.-Dk.	Reduced	Reduced	Mag.
454	46		107	—	
522	92		176	—	
469	92		196	—	
462	160		347	—	
514	183		355	—	
478	253		529	—	
489	301		613	—	
507	319		630	—	
470	399	—	860	—	
456	370	370	810	810	
473	76	76	161	161	
494	383	382	775	774	
467	318	319	695	697	
458	382	380	745	740	
445	366	—	820	—	8.17
462	376	374	812	810	
481	237	237	493	493	
479	291	—	607	—	7.16
464	281	281	606	606	
456	295	—	647	—	7.34
442	184	—	416	—	6.24
442	260	—	590	—	7.06
469	354	—	755	—	7.85
472	320	314	680	666	
483	375	375	777	777	
480	332	332	692	692	
432	191	191	443	443	
434	329	—	759	—	7.87
446	310	310	695	695	
437	229	231	524	527	

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1929phae.proj.126.P

New Series

EJP- RH 963- May 17, 1929

Strip	Class	Star	y	x	Dyl	Dyl.	Strip	Class	Note
	f	111	2338	683	442	441	710	270	
	f	112	2333	1000	621	618	750	270	
	p	52	2321	1162	633	—	763	271	
23.4	p	53	2340	210	614	—	720	270	
	f	113	2350	512	635	632	709	270	
	p	54	2353	1110	570	—	754	271	
	f	114	2350	1120	568	568	760	271	
23.6	p	55	2359	493	580	—	768	270	
	p	56	2369	719	482	—	700	270	
	f	115	2342	801	611	610	709	270	
	f	116	2362	848	610	610	717	270	
	p	57	2365	1147	495	—	748	270	
23.8	p	58	2380	612	400	—	701	270	
	p	59	2382	760	547	—	700	270	
	p	60	2398	764	470	—	693	269	
	f	117	2378	1090	620	620	723	270	
	p	61	2390	1140	551	—	750	270	
24.0	f	118	2409	520	568	570	703	270	
	f	119	2400	669	491	490	690	268	
	f	120	2400	781	760	760	692	269	
24.2	f	10	2111	708	318	/	694	272	
		1	2070	1069	360	/	762	271	
		2	—	—	360	/	718	271	
		3	—	—	411	/	710	271	
		4	—	—	441	/	769	271	
		5	—	—	501	/	721	271	
		6	—	—	560	/	737	272	
		7	—	—	568	/	758	273	
		8	—	—	650	/	710	270	520

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1929phae.proj.1264P

Cl.-Dk	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.
440	172	171	390	388	
480	351	348	730	725	
492	362	—	736	—	7.76
460	344	—	765	—	7.90
439	365	362	830	825	
473	299	—	633	—	
489	297	297	607	607	
438	310	—	705	—	7.62
430	212	—	494	—	6.60
439	341	340	776	775	
447	340	340	760	760	
478	225	—	470	—	6.49
431	130	—	300	—	5.68
430	277	—	645	—	7.33
424	201	—	474	—	6.52
453	350	350	775	775	
480	281	—	585	—	7.04
433	298	300	690	694	
422	123	122	292	290	
423	491	491	116	116	
422	46	—	109	—	
491	89	—	181	—	
447	89	—	199	—	
439	140	—	318	—	
498	170	—	342	—	
460	230	—	511	—	
465	288	—	620	—	
485	295	—	608	—	
435	375	—	859	—	

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1929phae.proj.126.P

166 New Series FMC RH 963 May 18, 1929

Strip	Class	Star	y	x	Defl	Diff	cl	Dk Volt
		18	2111	712	270	—	771	239
		1	2070	1074	293	—	831	239
		2	—	—	302	—	780	240
		3	—	—	357	—	769	240
		4	—	—	384	—	833	240
		5	—	—	470	—	800	240
		6	—	—	531	—	790	240
		7	—	—	540	—	824	242
		8	—	—	670	—	785	245
24.2	f	124	2430	445	520	520	771	248
	f	62	2428	512	641	—	778	242
	f	63	2420	653	642	—	760	244
	f	64	2418	760	462	—	752	246
	f	65	2430	769	650	—	760	249
	f	122	2420	865	641	645	780	250
	f	123	2430	1080	420	420	770	250
	f	124	2431	1091	555	555	792	250
24.4	f	66	2451	350	595	—	780	250
	f	67	2452	610	636	—	765	250
	f	125	2442	890	560	560	790	250
	f	126	2450	1074	300	300	795	251
24.6	f	127	2460	580	650	650	770	252
	f	128	2468	820	510	510	799	252
	f	129	2460	881	650	650	781	254
	f	130	2473	1821	380	380	780	258
24.8	p	68	2484	960	665	—	798	250
	p	131	2490	1372	660	660	777	250
	p	132	2490	504	338	338	771	251
	p	69	2481	696	650	—	775	251
	p	70	2484	836	499	—	784	251
	p	133	2488	898	955	955	795	251

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1929phae.proj.1264P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.
432	31	—	72	—	
592	64	—	91	—	
540	62	—	114	—	
529	117	—	223	—	
693	144	—	242	—	
560	230	—	411	—	
550	291	—	529	—	
582	298	—	511	—	
540	425	—	787	—	
523	232	232	445	445	
536	399	—	744	—	8.13
516	398	—	770	—	8.25
506	216	—	425	—	6.65
511	401	—	785	—	8.34
530	391	395	737	745	
520	170	170	326	326	
542	305	305	564	564	
530	345	—	650	—	7.70
516	386	—	750	—	8.16
540	310	310	575	575	
544	49	49	90	90	
518	398	398	768	768	
547	258	258	470	470	
527	396	396	750	750	
527	127	127	240	240	
548	415	—	755	—	8.19
527	410	410	778	778	
520	87	87	167	167	
524	399	—	762	—	8.23
535	248	—	466	—	6.84
544	104	104	191	191	

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1929phae.proj.126.tif

168 New Series

FMC RH 963 May 15, 1929

Strip	class	ston	y	x	Deff	Deff	cl	Dk Volt
24.8		134	2488	956	420	420	787	251
25.0			2510	370	515	—	788	251
		135	2500	490	310	310	780	253
		71	2500	896	610	—	790	259
		72	2501	1061	641	—	791	258
25.2		73	2520	567	440	—	770	255
		74	2531	620	531	—	777	254
		75	2520	680	608	—	760	255
		136	2536	780	618	620	800	258
25.4		137	2541	448	565	565	784	258
		76	2540	850	602	—	780	256
		77	2548	922	533	—	785	258
25.6		138	2561	703	610	610	780	255
		139	2570	808	395	395	792	259
		140	2570	970	650	650	782	259
		78	2559	1009	514	—	790	260
25.8		141	2579	504	640	640	770	260
		142	2570	720	490	490	790	260
		79	2595	800	540	—	780	260
		80	2580	844	350	—	774	259
		143	2594	889	600	600	785	259
26.0		144	2605	905	431	430	782	259
26.2		145	2621	790	570 598	570	780	260
		15	2111	712	287	—	790	260
		1	2070	1074	320	—	832	260
		2	—	—	320	—	770	259
		3	—	—	390	—	785	260
		4	—	—	401	—	829	260
		5	—	—	490	—	800	260
		6	—	—	565	—	800	260
		7	—	—	568	—	820	260
		8	—	—	670	—	785	260

Plate terminated

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1929phae.proj.1264P

Cl.-Dk.	Dffl.-Dk.	Dffl.-Dk.	Reduced	Reduced	Mag.
536	169	169	314	314	
527	57	57	108	108	
531	351	—	661	—	7.74
533	383	—	718	—	8.02
515	185	—	359	—	6.34
623	277	—	629	—	7.14
605	353	—	699	—	7.93
442	360	362	834	832	
426	307	307	722	722	
524	346	—	660	—	7.74
427	275	—	645	—	7.66
625	355	355	676	676	
533	36	36	68	68	
523	391	391	744	744	
530	254	—	479	—	6.90
510	380	380	745	745	
530	230	230	433	433	
521	280	—	538	—	7.17
515	91	—	177	—	5.47
526	341	341	657	657	
523	172	171	329	328	
520	310	310	596	596	
530	27	—	51	—	
572	60	—	105	—	
511	61	—	119	—	
525	131	—	248	—	
569	141	—	248	—	
540	230	—	426	—	
540	305	—	563	—	
560	308	—	551	—	
525	410	—	750	—	

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170 New Survey fmc RH 964 May 20, 1929

Trip	class	Star	y	x	Defl	Defl	cl	Dk	Volt
		15	2110	734	222	—	793	220	
		1	2055	1095	233	—	751	220	
		2	—	—	251	—	756	220	
		3	—	—	290	—	775	220	
		4	—	—	292	—	769	221	
		5	—	—	269	—	781	221	
		6	—	—	470	—	810	223	
		7	—	—	468	—	793	222	
		8	—	—	620	—	800	222	
13.8	f	1	1381	708	430	420	820	223	
14.0	f	2	1409	790	570	571	815	226	
14.2	f	1	1430	572	520	—	822	229	
14.4	f	3	1439	795	350	350	801	228	
	f	4	1450	839	472	468	800	229	
	f	5	1448	950	501	490	789	229	
	f	6	1457	954	242	241	780	229	
	f	2	1452	1008	606	—	790	230	
14.6	f	7	1459	570	540	525	820	230	
	f	8	1464	691	260	260	825	230	
	f	9	1460	845	369	352	800	229	
14.8	f	10	1485	838	425	409	781	230	
	f	3	1488	967	240	—	790	231	
15.0	f	4	1499	452	470	—	820	231	
	f	5	1516	500	612	—	808	232	
	f	6	1500	937	520	—	790	232	
	f	7	1512	1059	524	—	783	232	
15.4	f	8	1543	570	541	—	820	233	
	f	9	1458	628	273	—	809	233	
	f	11	1542	920	439	413	790	235	
	f	12	1550	980	557	555	780	235	

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1929phae.proj.1264P

cl.-Dk.	Defl.-Dk.	Defl.-Br.	Reduced	Reduced	Mag.	L.No.
573	2	—	3			
531	13	—	24	—		
536	31	—	58	—		
555	70	—	126	—		
548	71	—	129	—		
560	148	—	264	—		
587	247	—	420	—		
571	246	—	430	—		
578	398	—	688	—		
597	207	197	347	330	6.85, 6.79	
589	344	345	583	584	7.83, 7.83	
593	291	—	490	—	7.44	534
573	122	122	213	213	6.30, 6.30	
571	243	239	426	419	7.17, 7.15	
550	272	261	486	465	7.42, 7.34	
551	13	12	24	22	4.34, 4.29	
560	376	—	672	—	8.17	
590	310	295	525	500	7.56, 7.47	
595	30	30	50	50	5.10, 5.10	
571	140	123	246	216	6.44, 6.33	
551	195	179	354	326	6.87, 6.77	
569	9	—	16	—	4.00	660
589	239	—	466	—	7.09	498
576	380	—	660	—	8.13	509
568	288	—	516	—	7.54	683
561	292	—	530	—	7.60	583
587	308	—	525	—	7.57	523
576	40	—	69	—	5.44	536
555	204	178	367	321	6.94, 6.74	
645	322	320	590	588	7.84, 7.84	

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1929phae.proj.126.P

172 near Saturn

FMC MRD May 20, 1929 RH 964

Mag	class	Star	y	y	Deg	Diff	α	Dk	Volt
15.4	f	10	1458	1020	530	—	780	2/837	
15.6	f	13	1575	435	590	592	807	238	
	f	11	1568	642	548	—	818	235	
MRD	f	14	1564	1099	615	619	789	238	
15.8	f	12	1581	440	660	too faint			
	f	13	1575	770	570	—	790	240	
	f	16	1594	940	572	570	780	240	
	f	16	1590	1015	480	480	790	240	
	f	17	1592	1100	430	430	765	238	
	f	18	1581	1129	600	600	770	240	
16.0	f	19	1605	450	620	620	800	242	
	f	20	1614	660	390	390	807	242	
	f	21	1600	760	565	565	805	241	
16.2	f	14	1630	419	560	—	800	240	
	f	22	1629	460	480	482	825	242	
	f	15	1626	470	350	—	810	241	
	f	23	1620	712	480	480	790	240	
	f	24	1636	940	300	300	780	240	
	f	16	1622	980	510	—	790	240	
		18	2110	734	242	—	775	240	
		1	2055	1095	253	—	773	240	
		2	—	—	270	—	755	240	
		3	—	—	290	—	765	239	
		4	—	—	305	—	770	242	
		5	—	—	380	—	790	243	
		6	—	—	450	—	784	242	
		7	—	—	460	—	783	242	
		8	—	—	620	—	760	240	

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1929phae.proj.1264P

cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.	L. No.
443	293	—	661	—	8.13	681
569	352	354	618	620	7.97, 7.97	
573	313	—	545	—	7.65	541
551	377	381	684	691	8.23, 8.25	
	too faint.					
650	330	—	600	—	7.88	583
540	332	336	615	613	7.95, 7.94	
560	240	240	437	437	7.23, 7.23	
527	192	192	364	364	6.92, 6.92	
530	360	360	679	679	8.22, 8.22	
558	378	378	676	676	8.20, 8.20	
565	148	148	262	262	6.50, 6.50	
584	324	324	574	574	7.77, 7.77	
560	320	—	571	—	7.51	457
583	238	240	407	409	7.09, 7.10	
569	109	—	191	—	6.23	474
550	240	240	437	437	7.23, 7.23	
540	60	60	101	101	5.74, 5.74	
650	270	—		491	7.44	679
635	2	—	4	—		
533	13	—	24	—		
515	30	—	58	—		
526	51	—	97	—		
528	63	—	119	—		
547	137	—	252	—		
542	208	—	385	—		
541	218	—	403	—		
520	380	—	732	—		

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1929phae.proj.1264P

Variable Stars

AJP - RZ 964 - May 20, 1929

Strip	class	Star	y	x	Defa	Defa	a	Da	Vol
		10	2110	735	230		707	230	522
		1	2055	1095	240		739	230	
		2	—	—	200		730	230	
		3	—	—	280		741	230	
		4	—	—	291		744	230	
		5	—	—	345		753	230	
		6	—	—	421		765	231	
		7	—	—	451		771	232	
		8	—	—	600		750	233	
16.4	p	17	1640	907	581	—	797	236	
		25	1639	940	300	300	743	235	
		26	1652	1100	542	530	759	237	
		27	1640	1204	551	540	751	239	
16.6	p	18	1665	740	451	—	772	240	
	p	19	1660	280	480	—	780	240	
	p	20	1660	829	350	—	766	240	
		28	1659	900	494	492	771	240	
16.8	p	21	1683	879	493	—	761	240	
		29	1690	973	580	540	770	241	
	p	22	1680	980	567	—	765	242	
17.0	p	23	1710	860	362	—	789	242	
		30	1700	659	280	280	779	241	
	p	24	1710	909	560	—	762	241	
		31	1704	1126	988	389	761	241	
		25	1698	1199	540	—	758	241	
17.2		32	1724	240	421	420	788	241	
	p	26	1721	479	531	—	783	242	
		33	1719	572	561	560	794	245	
		34	1721	998	470	474	772	243	
		35	1731	1116	537	531	762	247	

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1929phae.proj.126aP

G. Dk.	Defl.-Dk.	Defl.-Bk	Reduced	Reduced	Mag.	L. No
477	0	—	0	—		
509	10	—	20	—		
500	20	—	40	—		
511	50	—	98	—		
514	61	—	118	—		
523	115	—	220	—		
534	190	—	356	—		
539	219	—	407	—		
517	367	—	708	—		
561	245	—	430	—	7.34	1a
538	65	65	121	121	6.04, 6.04	
522	305	293	583	561	8.09, 8.04	
512	312	301	610	587	8.18, 8.10	
537	211	—	397	—	7.24	570
540	240	—	444	—	7.39	
526	110	—	209	—	6.42	606
531	254	252	475	473	7.75, 7.74	
521	193	—	351	—	7.05	642
529	339	329	641	622	8.24, 8.20	
523	325	—	620		8.00	688
547	120	—	219	—	6.46	426
538	39	39	72	72	5.54, 5.54	
521	319	—	612	—	7.97	664
520	147	148	283	284	6.99, 6.99	
517	329	—	637	—	8.05	758
547	180	179	330	329	7.20, 7.19	
541	289	—	535	—	7.71	451
549	316	315	575	574	8.07, 8.07	
429	227	231	529	539	7.92, 7.95	
515	290	284	563	552	8.04, 8.00	

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Henr. Draper

Hyp – R.A. 964 – May 20, 1929

Mag.	class	star	y	x	Dyp	Dyp	dx	Dx	Volt
17.4	p	27	1741	379	510	—	804	246	
	p	28	1740	836	344	—	770	243	
	p	36	1739	990	297	295	773	242	
	p	29	1738	992	479	—	769	242	
	p	30	1740	1242	520	—	760	243	
17.6	p	37	1764	803	350	350	776	245	
17.8	p	38	1782	789	753	753	778	243	
	p	31	1790	809	535	—	784	245	
	p	32	1798	1040	550	—	770	247	
	p	33	1790	1090	570	—	759	247	
18.0	p	39	1800	373	428	420	794	246	
	p	40	1814	1100	452	452	766	242	
	p	34	1810	1180	505	—	758	242	
	p	35	1799	1302	452	—	770	243	
18.2	p	41	1837	903	554	552	803	244	
	p	42	1817	369	324	323	778	242	
	p	43	1820	647	390	390	780	243	
	p	44	1821	940	560	560	762	241	
18.4	p	45	1840	428	500	500	794	242	
	p	46	1851	462	428	425	781	241	
	p	47	1849	589	550	542	780	242	
	p	36	1850	1158	390	—	753	242	
		10	2110	735	243		730	242	
		1	2055	1095	252		746	241	
		2			260		731	240	
		3			291		742	241	
		4			305		749	240	
		5			358		758	240	
		6			440		765	240	
		7			458		772	240	
		8			607		750	240	520

Continued in BK 66 p 18

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1929phae.proj.126P

Cl. Dk.	Diff. Dk.	Diff. Dk.	Reduced	Reduced	Mag.	L. No.
558	264	—	473	—	7.48	420
527	101	—	192	—	6.32	625
531	55	53	104	100	5.90, 5.86	
527	237	—	460	—	7.42	713
517	277	—	535	—	7.71	—
531	105	105	198	198	6.60, 6.60	
535	510	510	953	953	too faint	
539	290	—	537	—	7.72	601
523	303	—	579	—	7.86	748
512	323	—	632	—	8.04	
548	182	174	332	317	7.22, 7.15	
524	210	210	401	401	7.47, 7.47	
516	263	—	516	—	7.62	790
527	209	—	398	—	7.24	809
559	316	308	564	551	800, 7.99	
536	82	81	153	152	6.33, 6.33	
537	147	147	274	274	695, 6.95	
521	319	319	613	613	8.18, 8.18	
552	258	258	468	468	7.73, 7.73	
540	187	184	346	342	7.27, 7.25	
538	308	316	572	576	8.06, 8.07	
511	148	—	290	—	6.80	805
488	1	—	2	—		
505	11	—	22	—		
491	20	—	41	—		
501	50	—	100	—		
509	65	—	128	—		
518	118	—	227	—		
525	200	—	381	—		
532	218	—	411	—		
510	367	—	720	—		

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1929phae.proj.126.P

178 FMC RH 649 June 12, 1929 New Series

New Series

trip	class	star	y	x	Diff	Diff	cl	Db	Volts
		15	2062	971	329	—	750	160	
		1	1708	910	460	—	750	160	
		2	—	—	523	—	772	161	
		3	—	—	540	—	769	161	
		4	—	—	552	—	770	161	
		5	—	—	570	—	769	161	
		6	—	—	630	—	779	161	
		7	—	—	623	—	772	161	
		8	—	—	700	—	778	162	5.08
14.2	f	✓1	1420	795	650	651	752	162	
14.6	fp	1	1476	720	610	—	750	161	
14.8	f	✓2	1479	1049	682	690	773	164	
	fp	2	1482	1086	619	—	771	165	
15.0	fp	3	1501	649	641	—	749	164	
	f	✓3	1499	741	652	655	758	164	
15.2	f	✓4	1520	860	608	610	748	165	
	fp	4	1530	975	660	—	765	165	
15.4	f	✓5	1551	504	668	680	750	169	
	f	✓6	1548	520	630	633	754	169	
	f	✓7	1548	688	650	652	752	169	
	fp	5	1550	821	680	—	750	170	
15.6	fp	6	1560	592	660	—	753	170	
	f	✓8	1578	880	630	640	750	170	
16.0	fp	7	1609	549	671	—	757	170	
	f	✓9	1610	?1051	672	688	778	170	
	fp	8	1619	1200	620	—	779	170	
16.2	f	✓10	1625	568	620	632	758	170	
	f	✓11	1630	578	550	560	749	170	
	fp	9	1621	660	658	—	759	170	
	fp	10	1621	924	650	—	770	170	

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1929phae.proj.126.P

Cl-Dk	Defe-Dk	Defe-Dk	Red Defl	Red Defl	Mag.	L. No
590	169	—	286	—		
590	300	—	510	—		
611	362	—	592	—		
608	379	—	624	—		
609	391	—	642	—		
608	409	—	672	—		
618	469	—	758	—		
611	462	—	755	—		
616	538	—	873	—		
590	488	489	829	830	7.86, 7.87	
589	449	—	763	—	7.29	844 ✓
609	518	526	850	863	8.08, 8.20	
606	454	—	749	—	7.15	960 ✓
585	477	—	815	—	7.87	809 ✓
594	488	491	822	826	7.79, 7.84	
583	443	445	759	762	7.19, 7.22	
600	495	—	824	—	7.98	926 ✓
581	499	511	860	879	8.19, 8.36	
585	461	464	787	793	7.47, 7.51	
583	481	483	824	828	7.80, 7.86	
580	510	—	880	—	8.60	880 ✓
583	490	—	840	—	8.14	✓
580	460	470	793	811	7.51, 7.69	
587	501	—	853	—	8.29	758 ✓
608	502	518	825	854	7.84, 8.13	
609	450	—	738	—	7.04	1030 ✓
588	450	462	764	785	7.24, 7.45	
579	380	390	657	673	6.13, 6.28	
589	488	—	830	—	8.04	792 ✓
600	480	—	800	—	7.72	907 ✓

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IMC RH 649 June 12, 1929

New Series

Strip	Class	Star	y	x	Dgc	Dgc	cl	Dh	Voch
16.2	f	12	1631	930	662	610	761	170	
	f	13	1628	1179	540	541	772	170	
	fp	11	1621	1227	678	—	788	170	
16.4	f	14	1652	510	650	654	758	170	
	f	15	1650	530	599	589	750	170	
	fp	12	1648	701	609	—	760	170	
	f	16	1651	870	655	662	760	170	
16.6	fp	13	1670	380	670	—	770	170	
	f	17	1668	947	689	680	764	170	
	f	18	1668	1211	590	590	780	171	
17.2	fp	14	1736	870	685	—	762	172	
17.4	f	19	1750	951	490	491	765	171	
	fp	15	1750	370	690	—	770	171	
	f	20	1749	851	680	680	760	171	
	fp	16	1749	855	696	—	760	171	
	f	21	1741	859	522	523	760	171	
	f	22	1759	1278	538	540	789	173	
17.6	f	23	1779	321	502	502	777	171	
17.8	f	24	1780	380	620	620	780	171	
	fp	17	1789	411	665	—	770	171	
	f	25	1780	568	650	650	761	172	
	f	26	1788	1209	629	624	780	172	
18.0	fp	18	1810	591	657	—	780	172	
	f	27	1801	1060	612	612	770	175	
18.2	fp	19	1828	480	670	—	776	175	
	f	28	1821	1097	632	632	770	172	
18.4	fp	20	1840	342	444	—	789	173	
	f	29	1850	540	560	560	770	172	
	f	30	1848	603	570	574	770	173	
	fp	21	1840	720	590	—	770	174	

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1929phae.proj.126MP

C.-Dk.	Diff.-Dk.	Diff.-Dk.	Reduced	Reduced	Mag.	L.No.
591	432	440	730	743	6.93, 7.04	
602	370	371	616	617	5.67, 5.68	
618	508	—	821	—	7.94	1043
588	480	484	815	822	7.75, 7.79	
580	429	419	740	722	7.03, 6.84	
590	439	—	744	—	7.08	805
590	485	492	822	831	7.79, 7.88	
600	500	—	834	—	8.07	
594	519	510	875	858	8.33, 8.17	
609	419	419	687	687	6.46, 6.46	
590	513	—	869	—	8.49	893
694	319	320	537	538	4.77, 4.78	
599	519	—	866	—	8.46	683
689	509	509	865	865	8.24, 8.24	
589	525	—	891	—	8.71	
589	351	352	596	596	5.45, 5.45	
616	365	367	593	595	5.40, 5.45	
606	331	331	545	545	4.87, 4.87	
609	449	449	730	730	6.93, 6.93	
599	494	—	824	—	7.98	681
589	478	478	813	813	7.70, 7.70	
608	457	452	751	742	7.13, 7.04	
608	485	—	797	—	7.67	713
595	437	437	735	735	6.98, 6.98	
601	495	—	823	—	7.95	679
598	460	460	768	768	7.28, 7.28	
616	271	—	440	—	3.75	660
598	388	388	648	648	6.04, 6.04	
597	397	401	665	670	6.20, 6.26	
596	416	—	697	—	6.57	

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1929phae.proj.126.P

7 mc RH 649 June 12, 1929

New Series MRD

strip	class	star	y	x	Defc	Defc	cl	Dk	Volt
18.4	p	22	1841	1129	670	—	769	174	
	p	23	1840	1392	692	—	788	175	
MRD 18.6	f	✓31	1871	327	520	520	780	175	
	p	24	1870	958	668	—	780	175	
	f	✓32	1870	480	620	622	770	174	
	f	✓33	1865	869	642	635	762	173	
	p	25	1870	1349	700	—	790	175	
18.8	f	✓34	1882	500	650	650	778	174	
	f	✓35	1886	510	630	642	778	174	
19.0	p	~~36~~ depcat	1902	536	605	—	773	174	
	p	27	1900	720	540	—	760	172	
	f	✓36	1900	889	662	670	760	172	
	p	28	1916	1430	585	—	800	175	
19.2	p	29	1928	542	625	—	770	180	
	p	30	1921	668	535	—	770	180	
	p	31	1930	913	680	—	760	178	
	f	✓37	1935	981	669	672	765	178	
	p	32	1930	1338	650	—	788	180	
		15	2062	971	325	—	715	180	
		1	1708	910	460	—	750	180	
		2	—	—	519	—	770	180	
		3	—	—	535	—	760	178	
		4	—	—	542	—	751	176	
		5	—	—	570	—	770	177	
		6	—	—	612	—	768	177	
		7	—	—	624	—	770	179	
		8	—	—	695	—	770	179	

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Cl.-Dk.	Defl-Dk.	Defl-Dk.	Reduced	Reduced	Mag.	L. No.
595	496	—	833	—	8.06	1109
613	517	—	841	—	8.15	1104
605	345	345	570	570	5.15, 5.16	
606	493	—	815	—	7.87	647
596	446	448	747	749	7.07, 7.09	
589	469	462	797	785	7.56, 7.45	
615	525	—	853	—	8.29	1176
604	476	476	788	788	7.48, 7.48	
604	456	468	755	775	7.15, 7.35	
599	431	—	719	—	6.81	
588	368	—	625	—	5.76	709?
588	490	498	832	847	7.89, 8.06	
625	410	—	657	—	6.14	1214
590	445	—	764	—	7.20	642
590	355	—	603	—	5.53	
582	502	—	861	—	8.37	22
587	491	494	835	841	7.93, 7.98	
608	476	—	773	—	7.41	1208
635	145	—	271	—		
570	280	—	491	—		
590	339	—	575	—		
582	359	—	613	—		
575	366	—	636	—		
593	393	—	663	—		
591	435	—	736	—		
591	445	—	753	—		
591	516	—	872	—		

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1929phae.proj.126.P

New Series

Exp. RZ 649 - June 12, 1929

Strip	Class	Star	y	x	Dyff	Dzff	Q	Dkz	Date
		10	2062	971	520	—	712	172	605
		1	1708	910	445	—	738	173	
		2	—	—	501	—	758	172	
		3	—	—	520	—	760	172	
		4	—	—	531	—	751	171	
		5	—	—	560	—	761	179	
		6	—	—	604	—	759	177	
		7	—	—	620	—	764	180	
		8	—	—	692	—	761	180	
19.4	f	✓38	1950	819	648	650	660	179	
	f	✓39	1938	981	655	655	762	180	
	f	33	1949	1082	630	—	762	181	
	f	✓40	1940	1311	650	650	781	188	
19.6	p	34	1979	520	572	—	755	185	
	p	35	1970	600	570	—	780	185	
	f	✓41	1970	741	629	628	779	182	
	f	✓42	1960	868	649	653	759	180	
19.8	f	✓43	1981	560	630	630	774	182	
	p	36	1989	715	562	—	783	180	
	f	✓44	1990	1021	631	630	762	184	
20.0	f	✓45	2001	290	423	423	769	181	
	f	✓46	2017	511	501	498	780	181	
	p	37	2000	1238	643	—	773	188	
	p	38	1999	1250	600	—	732	185	
	p	39	2008	1272	627	—	780	188	
20.2	f	✓47	2020	914	490	490	769	189	
	f	✓48	2030	1098	580	580	770	189	
20.4	f	✓49	2045	759	611	610	780	190	
	p	40	2045	1225	600	—	772	191	
	f	✓50	2040	1247	552	552	781	190	

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1929phae.proj.126.P

Q. Dk.	Defl Dk.	Defl Dk	Reduced	Reduced	Mag.	L. NO
540	148	—	274	—		
556	262	—	472	—		
586	329	—	562	—		
588	348	—	592	—		
580	360	—	620	—		
582	381	—	654	—		
582	427	—	757	—		
584	440	—	754	—		
581	512	—	881	—		
481	469	471	809	810	7.79, 7.80	
582	475	475	817	817	7.86, 7.86	
681	449	—	774	—	7.40	1171
593	462	462	780	780	7.55, 7.55	
570	387	—	680	—	6.49	606
595	385	—	647	—	6.17	625
597	447	446	750	749	7.33, 7.32	
579	469	473	810	818	7.80, 7.87	
592	448	448	760	760	7.40, 7.40	
603	382	—	633	—	6.03	627
578	447	446	772	771	7.36, 7.36	
588	242	242	411	411	3.87, 3.87	
599	320	318	534	531	5.05, 5.04	
585	455	—	778	—	7.45	1246
547	415	—	760	—	7.25	1242
592	439	—	743	—	7.08	1251
580	301	301	518	518	4.92, 4.92	
581	391	391	672	672	6.66, 6.66	
590	421	420	714	713	7.04, 7.03	
581	409	—	705	—	6.74	1279
591	362	362	612	612	6.15, 6.15	

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1929phae.proj.126.P

186 New Series

RH 649

Trip	Class	Star	Y	X	Diff	Diff	Cl	Alt	Rem
20.6	p	41	2062	527	640	—	788	190	
	f	✓ 57	2069	562	620	660	791	191	
20.8	p	42	2060	1001	572	—	780	200	
21.0		10	2062	971	330	—	703	192	
		1	1708	910	460	—	461	196	
		2	—	—	526	—	780	199	
		3	—	—	540	—	779	200	
		4	—	—	552	—	772	200	
		5	—	—	570	—	785	201	
		6	—	—	621	—	778	192	
		7	—	—	625	—	780	190	
		8	—	—	700	—	772	198	5T1
JMc June 13, 1929 instrument re-adjusted		0	2062	951	213	—	1228	212	
		1	1708	889	228	—	1230	210	
		2	—	—	254	—	1262	211	
		3	—	—	912	—	1253	211	
		4	—	—	337	—	1269	212	
		5	—	—	428	—	1273	212	
		6	—	—	571	—	1260	212	
		7	—	—	670	—	1252	211	
		8	—	—	930	—	1258	213	
21.0	f	43	2112	1002	898	—	1250	214	
	f	44	2110	1260	921	—	1305	218	
21.2	f	✓ 52	2128	663	750	751	1265	217	
	f	✓ 53	2129	1091	860	871	1281	218	
	f	✓ 54	2120	1136	900	901	1282	218	
	f	✓ 55	2122	1139	750	750	1288	218	
	f	45	2122	1141	575	—	1276	215	
	f	✓ 56	2120	1372	739	740	1305	218	
21.4	f	✓ 57	2151	910	860	860	1250	218	

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1029phae.proj.126.P

O.-Dk.	Defl-Dk.	Defl-Dk.	Reduced	Reduced	Mag.	L.No
598	450	—	753	—	7.17	570
600	429	469	716	783	7.05, 7.56	
580	372	—	642	—	6.10	sequence star no 5
611	138	—	270	—		
566	264	—	467	—		
581	327	—	563	—		
579	340	—	502	—		
572	352	—	615	—		
584	369	—	632	—		
586	428	—	730	—		
590	435	—	737	—		
574	502	—	872	—		
1016	1	—	1	—		
1020	18	—	18	—		
1061	43	—	41	—		
1042	101	—	96	—		
1069	125	—	118	—		
1061	216	—	204	—		
1048	359	—	343	—		
1041	459	—	441	—		
1045	717	—	685	—		
1036	684	—	661	—	8.23	105
1087	703	—	647	—	8.18	g
1048	533	534	510	511	7.67, 7.67	
1063	642	663	603	614	8.03, 8.05	
1064	682	683	640	641	8.15, 8.15	
1070	532	532	498	498	7.64, 7.64	
1061	360	—	339	—	7.04	62
1087	521	522	480	481	7.57, 7.57	
1032	642	642	622	622	8.07, 8.07	

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1929phae.proj.126.P

188 Series

FMC RH 647 June 13, 1929
MRD

Temp.	Class	Star	y	x	Defx	Defy	d	Dk Volt
21.4	f	46	2148	1220	280	—	1290	220
	f	47	2151	1298	912	—	1303	220
	f	48	2140	1368	862	—	1296	220
	f	49	2140	1376	730	—	1307	220
	f	✓58	2140	1412	928	928	1310	220
21.6	f	50	2179	400	335	—	1291	220
	f	51	2161	409	880	—	1270	219
MRD 21.8	f	✓59	2179	365	640	660	1280	220
	f	✓60	2180	384	930	950	1290	220
	f	52	2180	1130	930	—	1230	218
22.0	f	✓61	2210	460	930	950	1280	220
	f	✓62	2212	1140	930	952	1270	219
	f	✓63	2200	1370	850	880	1308	220
	f	✓63a	2218	1371	870	910	1313	219
	f	✓ very close to disc	2210	1373	485	490	1313	219
22.2	f	53	2220	250	310	—	1280	219
	f	54	2230	278	840	—	1300	220
	f	55	2235	389	830	—	1275	218
	f	✓64	2230	390	825	850	1273	218
	f	56	2230	1075	830	—	1245	219
	f	✓65	2233	1130	870	910	1264	220
22.4	f	✓66	2240	660	270	270	1250	215
	f	57	2253	766	440	—	1253	214
	f	✓67	2253	1056	493	507	1244	214
	f	✓68	2248	1242	887	913	1267	216
	f	58	2251	1273	880	—	1288	215
22.8	f	✓69	2260	379	840	852	1290	214
	f	✓70	2289	569	888	940	1279	218
	f	✓71	2279	770	904	930	1260	218
	f	✓72	2289	920	590	620	1240	217

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1929phae.proj.126.P

Co.-Dk.	Deff.-Dk.	Deff.-Dk.	Reduced	Reduced	Mag	L. No.
1070	605	—	56	—	5.40	56
1083	692	—	639	—	8.15	
1076	642	—	597	—	8.00	
1087	510	—	469	—	7.53	23
1090	708	708	650	650	8.19, 8.19	
1061	115	—	108	—	5.92	536
1051	661	—	629	—	8.11	541
1060	420	440	396	415	7.24, 7.33	
1070	710	730	663	682	8.24, 8.32	
1012	712	—	703	—	8.38	
1060	710	730	670	688	8.26, 8.34	
1051	711	733	676	697	8.28, 8.37	
1088	630	660	579	607	7.93, 8.04	
1094	657	691	595	631	7.99, 8.12	
1094	266	271	243	247	6.63, 6.65	
1061	91	—	86	—	5.70	540
1080	620	—	574	—	7.92	534
1057	612	—	580	—	7.94	523
1055	607	632	576	600	7.92, 8.01	
1026	611	—	597	—	8.00	h
1044	650	690	623	661	8.13, 8.23	
1035	55	55	53	53	5.35, 5.35	
1039	226	—	218	—	6.54	376
1030	279	295	271	285	6.74, 6.80	
1051	671	697	639	663	8.14, 8.24	
1003	665	—	663	—	8.24	90
1076	626	638	583	594	7.94, 7.98	
1061	670	722	632	680	8.12, 8.30	
1042	686	712	659	683	8.23, 8.32	
1023	373	403	365	394	7.14, 7.24	

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1929phae.proj.120.P

Prev Series

MRD June 13, 1929, RH 649

Strip	class	star	x	y	Dyx	Dyx	dx	dy	Var
22.8	f	73	2285	1069	830	830	1260	217	
		18	2062	951	218	—	1189	215	
		1	1708	889	230	—	1268	215	
		2	—	—	260	—	1280	214	
		3	—	—	313	—	1259	214	
		4	—	—	322	—	1225	213	
		5	—	—	424	—	1260	215	
		6	—	—	571	—	1250	214	
		7	—	—	660	—	1270	218	
		8	—	—	930	—	1260	217	
	HJP		RH649	June	13, 1929				
		10	2062	951	210	—	1163	209	520
		1	1708	889	221	—	1248	209	
		2	—	—	253	—	1276	209	
		3	—	—	299	—	1241	210	
		4	—	—	312	—	1249	210	
		5	—	—	400	—	1260	210	
		6	—	—	571	—	1250	210	
		7	—	—	641	—	1240	210	
		8	—	—	920	—	1268	211	
23.0	p	59	2304	361	890	—	1267	212	
	p	60	2308	810	719	—	1218	211	
	f	74	2311	960	383	390	1268	211	
	p	61	2302	1021	355	—	1252	210	
	p	62	2300	1169	741	—	1275	212	
	f	75	2302	1362	700	700	1292	212	
23.2	p	63	2332	472	457	—	1270	213	
	p	64	2321	569	789	—	1271	215	
	f	76	2330	590	848	848	1279	218	

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1929phae.proj.126.P

Co.-Dk	Dep-Dk.	Defl-Dk.	Reduced	Reduced	Mag.	L. No
1043	583	613	558	588	7.85, 7.96	
974	03	—	3	—		
1043	15	—	14	—		
1066	46	—	43	—		
1045	99	—	95	—		
1012	109	—	108	—		
1045	209	—	200	—		
1036	367	—	345	—		
1052	442	—	421	—		
1043	713	—	684	—		
954	1	—	1	—		
1039	12	—	11	—		
1067	44	—	41	—		
1031	89	—	86	—		
1039	102	—	98	—		
1050	190	—	181	—		
1040	361	—	348	—		
1030	431	—	418	—		
1052	709	—	674	—		
1055	678	—	643	—	8.18	509 ✓ ×
1007	508	—	505	—	7.71	338 ✓ ✓
1067	172	179	163	170	6.27, 6.30	
1042	145	—	139	—	6.17	205 ✓ ✓
1063	529	—	498	—	7.68	✓ ✓
1080	488	488	453	453	7.50, 7.50	
1057	244	—	231	—	6.65	474 ✓ ×
1056	574	—	545	—	7.85	451 ✓ ✓
1061	630	630	594	594	8.02, 8.02	

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1929phae.proj.126.P

Zone Series Hyp - R H 649 - June 13, 1929

Strip	Class	Star	y	x	Δξ	Δξ.	α	δκ	Notes
	f	✓ 77	2330	783	870	872	1263	219	
	f	✓ 78	2330	953	851	869	1278	220	
	f	✓ 79	2328	1270	810	810	1280	219	
23.4	p	65	2350	345	690	—	1290	215	
23.6	f	✓ 80	2370	460	660	681	1285	220	
	p	66	2358	928	810	—	1252	220	
	f	✓ 81	2367	1088	432	440	1262	218	
	f	✓ 82	2360	1298	662	669	1253	219	
23.8	p	67	2387	480	858	—	1220	220	
	p	68	2390	918	491	—	1222	220	
	f	✓ 83	2390	1011	525	531	1240	220	
24.0	f	✓ 84	2400	530	770	780	1270	220	
	f	✓ 85	2410	590	930	930	1279	220	
	f	✓ 86	2410	650	622	672	1262	220	
	p	69	2415	899	475	—	1221	220	
	p	70	2410	1020	530	—	1213	220	
	p	71	2412	1151	418	—	1248	220	
24.2	p	72	2422	590	430	—	1278	220	
	f	✓ 87	2430	1264	710	740	1263	220	
24.4	p	73	2440	390	651	—	1270	220	
	p	74	2440	560	424	—	1266	220	
	f	✓ 88	2440	579	712	725	1268	219	
	f	✓ 89	2450	789	875	901	1227	220	
	p	75	2459	863	712	—	1220	221	
	f	✓ 90	2445	908	730	740	1220	220	
24.6	f	✓ 91	2469	389	412	420	1280	219	
	f	✓ 92	2472	758	830	842	1250	220	
	f	✓ 93	2470	1249	401	400	1232	218	
24.8	p	76	2481	982	750	—	1234	219	
25.0	f	✓ 94	2504	529	850	870	1269	211	

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1929phae.proj.126.P

Cl.-Db.	Depl-Dk.	Depl-Dk.	Reduced	Reduced	Mag.	L.No
1044	621	623	595	597	8.03, 8.03	
1058	637	649	603	614	8.04, 8.08	
1061	591	591	557	557	7.87, 7.87	
1075	475	—	443	—	7.47	498
1065	440	461	413	433	7.36, 7.44	
1032	590	—	571	—	7.94	274
1044	214	222	205	212	6.45, 6.48	
1034	443	450	428	435	7.42, 7.45	
1000	638	—	638	—	8.17	457
1002	271	—	271	—	6.82	279
1020	305	311	299	306	6.88, 6.93	
1050	550	660	524	533	7.76, 7.79	
1059	710	710	672	672	8.30, 8.30	
1042	402	452	386	434	7.26, 7.44	
1001	255	—	255	—	6.45	294
993	310	—	311	—	6.99	240
1028	198	—	193	—	6.47	183
1058	510	—	483	—	7.63	420
1043	490	520	470	499	7.57, 7.67	
1050	431	—	411	—	7.36	464
1046	204	—	196	—	6.50	426
1049	493	506	472	484	7.56, 7.62	
1007	656	—	652	9	~~8.213~~	~~29~~
999	491	—	492	—	7.65	29
1000	510	520	510	520	7.72, 7.75	
1061	193	201	182	189	6.35, 6.39	
1030	610	622	594	605	8.02, 8.05	
1014	182	182	180	180	6.35, 6.35	
1015	531	—	524	—	7.77	264
1058	639	659	605	624	8.05, 8.14	

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1929phae.proj.1264P

194 Series

HJP-RH 649 – June 13, 1929

Strip	Class	Star	y	x	Diff	Diff	Cl	Dk	Tot
	f	✓ 95	2500	1092	865	963	1255	220	
	f	✓ 96	2510	1139	520	526	1240	219	
	f	✓ 97	2514	1165	660	671	1260	212	
25.4	f	✓ 98	2540	863	770	790	1234	218	
	p	77	2550	1032	892	—	1221	219	
	p	78	2550	1169	681	—	1250	215	
25.6	f	✓ 99	2560	600	828	850	1258	215	
	p	79	2560	1080	279	—	1210	215	
25.8	f	✓ 100	2580	644	575	590	1248	215	
	p	80	2581	912	540	—	1250	212	
26.0	p	81	2601	1090	980	—	1269	217	
26.2	f	✓ 101	2623	857	231	231	1259	212	
26.4		1P	2062	951	218	—	1147	211	
		1	1708	889	230	—	1230	212	
		2	—	—	262	—	1260	215	
		3	—	—	299	—	1211	212	
		4	—	—	322	—	1194	211	
		5	—	—	410	—	1241	211	
		6	—	—	570	—	1229	216	
		7	—	—	645	—	1250	214	
		8	—	—	912	—	1250	214	520

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1929phae.proj.126.tif

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Mag.	L. No
1035	645	683	623	660	8.13, 8.25	
1021	301	301	294	294	6.85, 6.85	
1048	448	459	428	438	7.43, 7.46	
1016	552	572	544	564	7.84, 7.90	
1002	673	—	672	—	8.32	225
1035	466	—	450	—	7.51	206
1043	613	635	588	608	7.99, 8.07	
995	64	—	64	—	5.50	239
1033	360	375	349	363	7.14, 7.18	
1038	328	—	316	—	7.01	297
1052	163	—	155	—	6.27	242
1047	19	19	18	18	4.50, 4.50	
936	7	—	7	—		
1018	18	—	18	—		
1045	47	—	45	—		
999	87	—	87	—		
983	111	—	113	—		
1038	199	—	193	—		
1013	344	—	339	—		
1036	431	—	416	—		
1036	698	—	674	—		

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1929phae.proj.1264P

196 New Series FMC June 25, 1929 RH 857

strip	class	star	y	x	Dyl	Dyl	dx	Dx	Yoff	Cl
		1S	2121	870	030		1545	030	5.22	
		1	1820	1069	069		1630	031		
		2	—	—	140		1635	031		
		3	—	—	220		1585	032		
		4	—	—	249		1580	032		
		5	—	—	429		1580	032		
		6	—	—	700		1599	038		
		7	—	—	852		1600	040		
		8	—	—	1180		1585	040		
14.6	f	1	1475	585	1020	1020	1560	041		
	f	2	1460	612	360	360	1560	040		
	f	3	1469	865	480	480	1588	041		
14.8	f	1	1480	641	1070	—	1580	042		
	f	2	1499	945	1041	—	1605	042		
15.0	f	3	1500	870	1150	—	1580	049		
	f	4	1502	1000	738	738	1620	049		
15.2	f	4	1530	562	121	—	1570	048		
	f	5	1521	1089	792	—	1598	049		
15.4	f	6	1539	649	975	—	1575	050		
	f	5	1540	1059	1110	1110	1640	050		
	f	6	1537	1118	880	805	1631	050		
15.6	f	7	1561	550	940	—	1570	050		
	f	7	1560	840	920	928	1575	050		
15.8	f	8	1590	500	872	838	1570	050		
	f	8	1590	941	956	—	1580	050		
16.0	f	9	1601	431	185	185	1530	050		
	f	10	1605	480	320	320	1530	050		
	f	9	1613	672	1005	—	1560	050		
	f	11	1604	765	900	900	1565	050		
	f	12	1610	839	950	950	1612	050		

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1929phae.proj.1264P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1515	0	—	0	—		
1594	38	—	24	—		
1604	109	—	68	—		
1553	188	—	121	—		
1548	217	—	140	—		
1548	397	—	256	—		
1561	662	—	424	—		
1560	812	—	521	—		
1545	1140	—	738	—		
1519	979	979	645	645	7.90, 7.90	
1520	326	320	210	210	6.23, 6.23	
1547	439	439	243	243	6.38, 6.38	
1538	1028	—	832	—	8.59	683 ✓+
1563	999	—	638	—	7.87	✓+ ✓
1531	1101	—	719	—	8.18	758 +
1571	689	689	437	437	7.15, 7.15	
1522	73		48	—	4.98	660 + ?
1549	743	—	480	—	7.28	844 ✓+ 660 ✓ 681 +
1525	925	—	607	—	7.77	844
1590	1060	1060	667	667	7.98, 7.88	
1581	756	755	474	477	7.37, 7.28	
1520	890	—	586	—	7.67	647 ✓+
1525	870	878	571	577	7.63, 7.65	
1470	822	788	559	530	7.58, 7.48	
1530	906	—	592	—	7.71	790 ✓✓
1480	135	135	91	91	5.50, 5.50	
1480	270	270	182	182	6.10, 6.10	
1510	955	—	633	—	7.80	679 ✓✓
1515	856	850	562	562	7.59, 7.59	
1562	900	901	576	576	7.65, 7.66	

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1929phae.proj.126.tif

198 New Series T = mc RH857

Sup	class	star	y	x	Dyz	Dyz	dz	Dz	Volt
16.0	f	13	1612	1171	1080	1080	1630	050	
	f	14	1602	1179	120	120	1640	050	
	f	15	2121	870	059	—	1585	050	
		1	1820	1069	090	—	1630	050	
		2	—	—	155	—	1630	050	
		3	—	—	231	—	1612	050	
		4	—	—	290	—	1580	050	
		5	—	—	472	—	1582	050	
		6	—	—	710	—	1600	050	
		7	—	—	870	—	1610	050	
		8	—	—	1290	—	1590	051	
		HGP - RH	857 -	June 25, 1929					
		10	2121	870	011	—	1490	010	520
		1	1820	1069	058	—	1545	012	
		2	—	—	119	—	1563	012	
		3	—	—	200	—	1554	015	
		4	—	—	250	—	1552	012	
		5	—	—	451	—	1532	012	
		6	—	—	650	—	1485	020	
		7	—	—	830	—	1545	020	
		8	—	—	1171	—	1541	020	
16.2	f	15	1631	475	969	969	1500	022	
	p	10	1632	958	589	—	1560	023	
	f	16	1634	1109	729	722	1559	021	
	f	17	1620	1178	1172	1059	1591	029	
	f	18	1632	1229	855	842	1590	029	
16.4	f	19	1650	376	260	260	1469	028	
	p	11	1650	711	1058	—	1530	029	
	p	12	1641	868	1040	—	1554	030	
	p	13	1649	1112	999	—	1562	031	

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1929phae.proj.1264P

Cl. Dk	Defl. Dk	Defl. Dk	Reduced	Reduced	Mag. ~~L. NO~~	L. NO
1580	1020	1020	646	646	7.91, 7.91	
1590	70	70	44	44	4.92. 4.92	
1535	9	—	6	—		
1580	40	—	25	—		
1580	105	—	66	—		
1562	181	—	116	—		
1530	240	—	157	—		
1532	422	—	275	—		
1560	660	—	426	—		
1560	820	—	526	—		
1539	1179	—	766			
1480	1	—	1	—		
1533	46	—	31	—		
1551	107	—	69	—		
1539	185	—	120	—		
1540	238	—	154	—		
1520	439	—	289	—		
1485	630	—	430	—		
1526	810	—	532	—		
1521	1161	—	757	—		
1478	947	947	641	641	7.98, 7.98	
1537	566	—	369	—	6.82	805
1538	708	701	461	456	7.30, 7.27	
1562	1043	1030	668	659	8.08, 8.05	
1561	826	813	529	520	7.54, 7.51	
1441	232	232	161	161	5.97, 5.97	
1501	1029	—	685	—	8.04	688
1524	1010	—	662	—	7.95	
1531	968	—	632	—	7.86	880

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1929phae.proj.126.P

200 Harv. Series

HPR RH 851 - June 25, 1929

Strip	Class	Star	y	x	Dyfl	Dyfl.	Cl.	Dk.	Wts
	p	14	1651	1150	1149	—	1618	032	
	f	20	1652	1169	1081	1121	1587	032	
16.6	f	21	1668	838	829	830	1542	033	
	f	22	1660	904	1088	1092	1530	039	
	f	23	1675	1123	1131	1130	1571	039	
	p	15	1669	1267	1100	—	1572	042	
16.8	p	16	1679	763	849	—	1550	040	
	p	17	1682	839	1010	—	1558	040	
17.0	f	24	1708	379	791	790	1508	040	
	f	25	1706	822	710	703	1563	042	
17.2	p	18	1729	649	721	—	1547	043	
	p	19	1720	686	1051	—	1538	045	
	f	26	1720	1046	430	430	1560	048	
17.4	p	20	1750	598	510	—	1493	047	
	p	21	1738	1296	892	—	1582	049	
17.6	p	22	1769	1138	950	—	1575	050	
17.8	f	27	1780	313	850	850	1518	051	
	p	23	1784	566	880	—	1536	050	
	f	28	1785	652	351	351	1534	049	
	f	29	1783	898	1036	1036	1579	050	
18.0	p	24	1810	662	507	—	1556	049	
		10	2121	870	051	—	1530	040	
		1	1820	1063	090	—	1560	041	
		2	—	—	154	—	1621	041	
		3	—	—	241	—	1590	045	
		4	—	—	272	—	1580	043	
		5	—	—	445	—	1559	045	
		6	—	—	690	—	1470	049	
		7	—	—	780	—	1560	050	
		8	—	—	1182	—	1540	049	520

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1929phae.proj.126:P

Q.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L.No
1586	1117	—	703	—	8.10	892
1555	1049	989	674	636	8.11, 7.96	
1509	796	797	528	529	7.03, 7.04	
1491	1049	1053	702	706	8.20, 8.21	
1532	1092	1091	713	707	8.24, 8.21	
1530	1058	—	691	—	8.06	3a
1510	809	—	536	—	7.48	713
1518	970	—	638	—	7.86	748
1468	761	750	512	611	7.49, 7.48	
1521	668	661	438	434	7.21, 7.20	
1504	678	—	451	—	7.16	642
1493	1006	—	709	—	8.13	664
1512	382	382	252	252	6.42, 6.42	
1446	463	—	421	—	7.04	606
1533	843	—	550	—	7.53	926
1525	900	—	590	—	7.68	907
1467	799	799	545	545	7.59, 7.59	
1486	830	—	538	—	7.56	587
1485	302	302	203	203	6.16, 6.16	
1529	986	986	645	645	8.00, 8.00	
1507	458	—	304	—	6.57	625
1490	11	—	7	—		
1519	49	—	32	—		
1580	113	—	71	—		
1545	196	—	127	—		
1537	229	—	149	—		
1514	400	—	264	—		
1421	641	—	451	—		
1510	730	—	483	—		
1491	1133	—	759	—		

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1929phae.proj.126.P

202 Zone Series

mc June 26, 1929 R# 857

trips	class	star	y	x	Dpe	Dpe	cl	Zh	Volt
		18	2121	847	070	—	1840	058	5.30
		1	1820	1043	175	—	1912	069	
		2	—	—	259	—	1910	069	
		3	—	—	358	—	1869	070	
		4	—	—	430	—	1878	070	
		5	—	—	689	—	1860	070	
		6	—	—	890	—	1877	080	
		7	—	—	1072	—	1884	081	
		8	—	—	1440	—	1880	082	
18.2	p	25	1830	962	395	—	1790	085	
	p	26	1821	380	1242	—	1810	089	
	p	36	1831	433	1282	1279	1820	090	
	p	27	1830	479	1420	—	1820	090	
	p	28	1820	506	1431	—	1840	090	
	p	29	1819	530	1008	—	1850	090	
	p	31	1819	1092	990	940	1939	090	
18.4	f	32	1840	590	1360	1360	1870	091	
	f	30	1850	654	1407	—	1890	092	
	f	33	1838	762	868	870	1862	092	
	f	34	1840	1060	1410	1410	1950	095	
	f	35	1851	1062	1330	1332	1949	095	
18.6	f	31	1861	315	1330	—	1870	099	
	f	36	1860	665	1193	1192	1895	100	
	f	37	1869	885	692	690	1939	100	
	f	38	1861	1109	1160	1169	1958	100	
18.8	f	32	1892	248	1390	—	1859	100	
	f	39	1878	581	1240	1242	1910	100	
	f	33	1890	709	729	—	1900	100	
	f	40	1881	959	1350	1308	1950	101	
19.0	f	41	1909	483	610	600	1900	101	

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1929phae.proj.126aP

Cl.-Dk.	Dfl.-Dk.	Dfl.-Dk.	Reduced	Reduced	magn.	L. No.
1782	12	—	7	—		
1843	106	—	58	—		
1841	190	—	106	—		
1799	288	—	156	—		
1808	360	—	198	—		
1791	619	—	346	—		
1797	810	—	462	—		
1803	991	—	549	—		
1798	1368	—	765	—		
1705	310	—	184	—	5.83	536 ✓+
1721	1153	—	670	—	7.92	541 ✓✓
1730	1192	1189	690	687	8.00, 7.98	
1730	1330	—	768	—	8.34	
1750	1341	—	767	—	8.33	
1760	912	—	518	—	7.25	570 ✓✓
1849	900	850	487	460	7.18, 7.02	
1779	1269	1269	713	713	8.11, 8.11	
1798	1312	—	731	—	8.19	601 ✓✓
1770	776	778	439	441	6.91, 6.93	
1855	1315	1315	708	708	8.07, 8.07	
1854	1235	1237	667	668	7.90, 7.91	
1771	1281	—	696	—	8.03	523 ✓+
1795	1093	1092	609	608	7.66, 7.64	
1839	592	590	323	321	6.43, 6.42	
1858	1060	1069	591	597	7.49, 7.51	
1759	1290	—	734	—	8.20	509 ✓+
1810	1140	1142	630	632	7.74, 7.75	
1820	629	—	346	—	6.57	627 ✓✓
1849	1249	1207	676	653	7.95, 7.84	
1799	509	499	283	277	6.25, 6.23	

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1929phae.proj.1204P

204 New Series

F mc MRD R H 157 June 26, 1929

mag	class	Star	y	x	Dpg	Dpe	cl	Dh	Volt
19.6	f	42	1910	793	1151	1132	1925	110	
	f	43	1910	930	275	275	1929	103	
	f	44	1899	1131	1300	1275	1950	110	
19.2	f	34	1919	203	1041	—	1879	110	
	f	35	1920	670	1100	—	1950	110	
19.4	f	45	1951	940	461	451	1990	110	
	f	36	1951	1318	951	—	1980	110	
19.6	f	37	1972	1332	1213	—	2008	115	
19.8	f	38	1990	310	850	—	1898	115	
	f	46	1988	311	1220	1187	1873	112	
	f	47	1981	595	1380	1360	1930	119	
	f	39	1987	893	1339	—	1962	100	
	f	48	1989	921	1220	1260	1963	120	
	f	40	1980	1280	1270	—	2001	120	
20.0	f	49	2009	1200	1218	1218	2021	121	
20.2	f	41	2035	280	1350	—	1910	125	
	f	50	2032	1175	801	803	2000	122	
20.4	f	51	2051	321	1100	1000	1912	125	
	f	52	2045	359	1200	1190	1990	129	
	f	42	2050	389	1290	—	1932	128	
	f	53	2042	996	1071	1070	1985	130	
MRD 20.6	f	54	2070	1107	1390	1375	2010	140	
	f	43	2066	1111	1190	—	2025	144	
	f	55	2055	1200	1480	1480	2030	142	
20.8	f	56	2085	537	1480	1480	1990	155	
21.0	f	44	2100	460	1570	—	1955	158	
	f	45	2111	1009	1275	—	2020	155	
	f	46	2111	1364	1500	—	2010	155	
21.2	f	47	2120	210	1440	—	1935	160	
	f	48	2130	300	820	—	1930	160	

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1929pmae.proj.126.P

Cl.-Dk.	Dfl.-Dk.	Dfl.-Dk.	Reduced	Reduced	Magn.	L.NO
1816	1041	1022	576	564	7.50, 7.46	
1826	172	172	94	94	5.15, 5.15	
1840	1190	1165	647	634	7.82, 7.76	
1769	931	—	628	—	7.29	498
1840	990	—	638	—	7.33	sequence star no 7
1880	351	341	187	181	5.84, 5.82	
1870	841	—	460	—	6.96	1030
1893	1098	—	581	—	7.62	1043
1783	735	—	412	—	6.79	474
1761	1108	1075	629	612	7.76, 7.68	
1811	1261	1241	697	685	8.03, 7.96	
1842	1219	—	662	—	7.88	21
1843	1100	1140	597	619	7.69, 7.70	
1881	1100	—	585	—	7.54	1044
1900	1097	1097	578	578	7.61, 7.61	
1785	1225	—	687	—	7.98	457
1878	679	681	362	364	6.59, 6.60	
1787	875	875	490	490	7.13, 7.13	
1791	1071	1061	598	593	7.60, 7.57	
1804	1162	—	645	—	7.81	451
1856	941	940	508	507	7.21, 7.20	
1870	1260	1235	670	663	7.92, 7.89	
1881	1046	—	557	—	7.43	1109
1888	1338	1338	709	709	8.08, 8.08	
1835	1325	1325	722	722	8.15, 8.15	
1797	1412	—	787	—	8.42	425
1865	1120	—	602	—	7.62	1171
1855	1345	—	726	—	8.16	1110
1775	1280	—	722	—	8.14	19
1770	670	—	379	—	6.66	426

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1929phae.proj.1264P

New Series MRD June 26, 1929. RH857

Slip	class	Star	y	x	Dpx	Dpx	α	δ	Volt
	p	49	2135	580	930	—	1999	160	
	p	57	2115	934	1490	1475	2010	160	
DP	p	50	2111	1008	1220	—	2035	160	
21.4	p	58	2151	239	1310	1273	1937	166	
	p	51	2139	335	1280	—	1949	179	
	p	59	2148	407	1584	1540	1953	170	
	p	52	2140	520	1598	—	1981	170	
	p	60	2153	810	1241	1239	2008	171	
21.6	p	61	2171	209	1403	1401	1923	171	
	p	62	2163	209	1112	1112	1942	170	
	p	63	2169	490	1430	1409	1980	170	
	p	64	2166	544	1181	1184	1981	171	
	p	65	2169	752	1270	1279	1990	172	
	p	66	2170	930	650	650	2026	171	
	p	53	2164	1064	1560	—	2028	171	
	p	67	2162	1111	1427	1428	2010	172	
21.8	p	68	2178	363	1131	1129	1955	172	
	p	69	2180	775	1216	1215	2000	172	
	p	54	2195	849	1521	—	2020	173	
	p	70	2183	871	1518	1405	2012	175	
	p	55	2180	1163	1359	—	2037	172	
	p	56	2189	1372	1102	—	2021	172	
22.0	p	71	2210	390	1401	1400	1940	172	
	p	72	2198	445	1071	1082	1958	171	
	p	57	2201	576	1303	—	1976	172	
	p	73	2200	634	1519	1520	1997	172	
22.2	p	74	2230	573	1000	992	1948	170	
	p	75	2230	617	1580	1580	1970	173	
22.4	p	76	2250	299	830	823	1940	173	
	p	77	2250	489	1371	1381	1980	172	

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1929phae.proj.126.P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1839	770	—	419	—	6.82	376
1850	1330	1315	719	712	8.13, 8.10	
1875	1060	—	566	—	7.46	
1771	1144	1107	648	625	7.83, 7.73	
1770	1101	—	623	—	7.71	420
1763	1414	1370	792	768	8.44, 8.35	
1811	1428	—	788	—	8.43	
1837	1070	1068	583	581	7.53, 7.52	
1752	1232	1230	704	702	8.06, 8.05	
1772	942	942	534	534	7.33, 7.33	
1810	1260	1239	697	685	8.03, 7.96	
1810	1010	1013	558	561	7.43, 7.45	
1818	1103	1107	606	609	7.65, 7.66	
1855	479	479	268	258	6.14, 6.14	
1857	1389	—	748	—	8.25	1139
1838	1255	1256	683	684	7.97, 7.97	
1783	969	967	538	537	7.34, 7.34	
1828	1044	1043	572	571	7.49, 7.48	
1847	1348	—	730	—	8.17	105
1837	1343	1230	730	670	8.17, 7.92	
1865	1187	—	637	—	7.78	1166
1849	930	—	504	—	7.20	1141
1768	1229	1228	696	695	8.03, 8.03	
1787	900	911	504	511	7.20, 7.23	
1804	1131	—	627	—	7.74	338
1825	1347	1348	737	738	8.22, 8.22	
1778	830	822	468	464	7.04, 7.03	
1797	1407	1407	783	783	8.42, 8.42	
1767	657	650	372	372	6.63, 6.63	
1808	1199	1209	664	670	7.85, 7.92	

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1929phae.proj.1264P

Dyp - R H 857 - June 26, 1929

Strip	class	star	y	x	Dyc	Dyc	a	Db	Volts
	f	78	2241	1104	1870	1870	2021	172	
	f	79	2247	1173	1470	1470	1997	174	
	p	58	2240	1256	1472	—	2010	175	
	p	59	2246	1309	1231	—	2010	172	
22.6	p	60	2271	403	1551	—	1962	180	
	f	80	2260	515	1342	1342	1970	175	
	f	81	2258	925	1296	1300	1991	174	
	p	61	2260	1021	1440	—	1990	171	
	p	62	2259	1083	1259	—	2000	172	
	p	63	2261	1096	859	—	2009	171	
	p	64	2271	1206	1070	—	2019	172	
	f	82	2269	1241	1513	1533	2000	173	
22.8	f	83	2295	701	892	890	1990	172	
	f	84	2291	953	1479	1481	2008	180	
	f	85	2289	984	600	600	1987	171	
	p	65	2280	1045	840	—	2007	171	
	p	66	2283	1107	1073	—	2031	173	
23.0	f	86	2312	368	269	269	1923	170	
	p	67	2298	943	1120	—	2005	172	
	p	68	2298	1257	1529	—	2009	172	
23.2	p	69	2337	599	849	—	1992	172	
	p	70	2326	629	1404	—	1980	172	
	p	71	2338	821	1480	—	2009	174	
	p	72	2330	896	1560	—	1998	175	
	f	87	2331	1260	839	831	2009	170	
	p	73	2328	1289	669	—	2010	171	
23.4	f	88	2345	365	1428	1428	1948	172	
	p	74	2350	512	1338	—	1948	173	
	p	75	2340	565	790	—	1990	172	
	p	76	2338	600	860	—	1980	172	

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1929phae.proj.1264P

Q.-Dk.	Dffl.-Dk.	Dffl.-Dk.	Reduced	Reduced	Magn.	L.No
1849	1198	1198	648	648	7.83, 7.83	
1823	1296	1296	712	712	8.11, 8.11	
1835	1297	—	707	—	8.08	1176
1838	1059	—	576	—	7.50	1104
1782	1371	—	770	—	8.35	
1795	1167	1167	651	651	7.83, 7.83	
1817	1122	1126	619	621	7.70, 7.71	
1819	1269	—	698	—	8.04	f
1828	1087	—	595	—	7.58	1246
1838	688	—	375	—	6.64	1242
1847	898	—	487	—	7.13	1208
1827	1376	1360	752	746	8.27, 8.26	
1818	720	718	397	396	6.72, 6.72	
1828	1299	1301	711	713	8.10, 8.11	
1916	429	429	236	236	6.04, 6.04	
1836	669	—	365	—	6.60	1279
1858	900	—	491	—	7.14	1251
1753	99	99	56	56	4.50, 4.50	
1833	948	—	517	—	7.26	62
1837	1357	—	738	—	8.21	1201
1820	677	—	372	—	6.63	279
1808	1232	—	683	—	7.97	274
1835	1306	—	713	—	8.10	h
1823	1385	—	759	—	8.30	
1839	669	661	364	361	6.60, 6.59	
1839	398	—	217	—	5.96	1214
1776	1256	1256	707	707	8.07, 8.07	
1775	1165	—	657	—	7.86	2a
1818	618	—	341	—	6.50	294
1808	688	—	381	—	6.66	279

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1929phae.proj.126:P

210 New Series

Yale - RH 857 - June 25, 1929

Trip	class	star	y	x	Diff	Diff	a	Da	Vol	C
	p	77	2345	733	648	+	2000	171		
		78	2121	847	207	—	1860	170		
		1	1820	1044	293	—	1985	170		
		2	—	—	352	—	2000	180		
		3	—	—	490	—	1998	169		
		4	—	—	580	—	1990	170		
		5	—	—	770	—	1970	170		
		6	—	—	1032	—	1880	170		
		7	—	—	1151	—	1960	171		
		8	—	—	1560	—	1961	172	5.20	
FMC June 27, 1929		18	2121	797	145	—	1951	139	5.20	
		1	1820	995	232	—	2002	139		
		2	—	—	291	—	2000	139		
		3	—	—	370	—	1960	140		
		4	—	—	491	—	1940	139		
		5	—	—	621	—	1880	140		
		6	—	—	915	—	1960	140		
		7	—	—	1040	—	1970	140		
		8	—	—	1510	—	1972	145		
23.6	p	78	2369	938	311	—	1979	145		
	p	79	2370	1219	1293	—	2009	145		
23.8	p	89	2384	980	1398	1390	2005	150		
24.0	p	90	2401	262	1260	1251	1930	150		
	p	91	2400	963	1518	1490	2012	153		
	p	92	2404	1189	215	210	1958	150		
	p	93	2400	1211	690	680	2005	152		
24.2	p	80	2420	609	835	—	1982	159		
	p	94	2425	1010	1264	1260	1985	160		
	p	95	2430	1062	1060	1055	2003	160		
	p	81	2421	1079	1381	—	2020	160		

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1929phae.proj.126:P

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Reduced	Reduced	Magn.	L. No.
1829	447	—	245	—	6.07	205
1690	37	—	22	—		
1815	123	—	67	—		
1820	172	—	96	—		
1829	321	—	176	—		
1820	410	—	225	—		
1800	606	—	334	—		
1710	862	—	604	—		
1789	980	—	548	—		
1789	1388	—	776	—		
1812	6	—	3	—		
1863	93	—	68	—		
1861	152	—	82	—		
1820	230	—	126	—		
1801	352	—	196	—		
1740	481	—	277	—		
1820	775	—	427	—		
1830	900	—	492	—		
1827	1365	—	747	—		
1834	166	—	91	—	5.26	56
1864	1148	—	616	—	7.77	1235
1855	1248	1240	672	667	8.08, 7.97	
1780	1110	1101	623	618	7.81, 7.78	
1859	1365	1337	736	719	8.25, 8.18	
1808	65	60	36	33	3.85, 3.70	
1853	538	528	291	285	6.49, 6.46	
1823	676	—	371	—	6.79	240
1825	1104	1100	606	603	7.74, 7.72	
1843	900	895	488	486	7.28, 7.25	
1860	1221	—	656	—	7.92	8

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1929phae.proj.126.P

212 New Series FMC RH 857 June 28, 1929

Trip.	Class	Star	y	x	Defe	Defe	cl	Dk	Volt.
24.4		82	2450	535	1280	—	1981	160	
		96	2445	650	550	540	2000	160	
		83	2440	796	1340	—	2020	160	
		97	2440	822	1480	1475	2029	161	
		84	2442	843	1390	—	2015	162	
		98	2441	910	595	595	1980	160	
24.6		85	2471	413	918	—	1972	164	
		99	2470	490	1452	1451	2008	168	
		100	2470	515	1448	1440	1980	169	
		101	2470	612	500	490	1982	165	
		86	2470	1055	1229	—	2040	166	
25.0		102	2500	415	1460	1451	1975	169	
		87	2512	705	625	—	2012	170	
		103	2514	920	1500	1490	2020	170	
		88	2500	1010	910	—	2028	168	
25.2		104	2531	450	441	440	1995	164	
25.4		105	2549	480	1425	1430	2000	170	
		106	2551	1010	1410	1402	2030	170	
25.6		89	2570	551	292	—	1995	170	
		90	2565	1070	410	—	1991	170	
25.8		91	2580	452	1215	—	1980	171	
		107	2590	1013	1098	1090	2030	172	
26.0		92	2610	530	584	—	1992	172	
26.2		93	2622	622	1240	—	1968	173	
		94	2620	820	1450	—	2012	175	
		15	2121	797	191	—	1972	180	
		1	1820	995	280	—	2029	179	
		2	—	—	352	—	2021	175	
		3	—	—	440	—	2000	175	
		4	—	—	540	—	1989	175	

Data finished

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1929phae.proj.126:P

Cl.-Dk	Defl.-Dk	Defl.-Dk	Reduced	Reduced	Magn.	L. No.
1821	1120	—	616	—	7.77	264
1840	390	380	212	206	6.15, 6.13	
1860	1180	—	635	—	7.85	
1868	1319	1314	706	703	8.13, 8.11	
1843	1228	—	666	—	7.96	118
1720	435	435	263	263	6.35, 6.35	
1808	744	—	412	—	6.96	297
1840	1284	1283	698	697	8.08, 8.08	
1811	1279	1271	695	692	8.07, 8.06	
1817	335	325	184	179	6.02, 5.99	
1874	1063	—	568	—	7.57	23
1806	1291	1291	710	710	8.17, 8.15	
1842	455	—	247	—	6.31	183
1850	1330	1320	719	714	8.18, 8.16	
1860	742	—	399	—	6.90	51
1891	277	276	151	150	5.86, 5.85	
1830	1265	1260	686	688	8.04, 8.05	
1860	1240	1232	666	664	7.96, 7.96	
1828	122	—	68	—	4.84	239
1821	240	—	132	—	5.71	44
1809	1044	—	577	—	7.60	
1858	926	918	499	495	7.30, 7.28	
1820	412	—	280	—	6.46	242
1795	1067	—	595	—	7.69	206
1837	1275	—	695	—	8.07	135
1792	11	—	6	—		
1850	101	—	54	—		
1846	177	—	96	—		
1826	265	—	145	—		
1814	365	—	201	—		

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1929phae.proj.126:P

214 New Series FMC RH 857 June 27, 1929

Strip	Class	Star	y	x	Dyf e	Dyf e	α	Δh	Vol
		5	—	—	710	—	1975	170	
		6	—	—	1010	—	1981	173	
		7	—	—	1205	—	~~2000~~	175	
		8	—	—	1572	—	1995	180	
			Plate finished						
	Aff	—	RZ	644	July 9, 1929				
		10	1980	968	039	—	1370	033	505
		1	1803	649	119	—	1460	038	
		2	—	—	137	—	1503	038	
		3	—	—	193	—	1530	041	
		4	—	—	329	—	1487	040	
		5	—	—	380	—	1521	042	
		6	—	—	619	—	1530	046	
		7	—	—	712	—	1519	048	
		8	—	—	1300	—	1563	050	
16.2	L	24	1620	741	1159	1193	1519	052	
	L	25	1623	843	814	881	1499	052	
	L	26	1638	848	359	365	1501	050	
	L	27	1636	849	1015	1030	1498	052	
	L	28	1630	880	1052	1060	1434	053	
	L	29	1629	899	530	539	1511	053	
	L	30	1627	1189	1111	1132	1559	060	
	L	31	1624	1272	922	960	1571	058	
16.4	P	17	1641	550	924	—	1491	060	
	P	32	1651	967	1005	1005	1519	059	
	L	33	1640	1031	625	641	1501	060	
16.6	L	34	1660	711	1040	1050	1490	062	
	L	35	1661	832	1090	1090	1490	063	
	P	18	1660	899	848	—	1527	063	

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1929phae.proj.126:P

Cl.-Dk-	Deffl-Dk.	Deffl-Dk.	Reduced	Reduced	Magns.	L.No.
1805	540	—	299	—		
1808	837	—	464	—		
1825	1030	—	565	—		
1815	1392	—	767	—		
1337	6	—	4	—		
1422	81	—	57	—		
1465	99	—	67	—		
1489	152	—	102	—		
1447	289	—	199	—		
1479	338	—	228	—		
1484	573	—	386	—		
1471	664	—	451	—		
1513	1250	—	826	—		
1467	1107	1141	755	778	8.10, 8.17	
1447	822	829	568	572	7.68, 7.61	
1461	309	315	212	217	6.37, 6.39	
1446	963	978	666	676	7.86, 7.88	
1381	999	1007	722	728	8.02, 8.03	
1458	479	486	328	334	6.86, 6.88	
1499	1051	1072	701	716	7.96, 8.00	
1513	864	902	571	596	7.60, 7.67	
1430	864	—	604	—	7.89	926
1460	946	946	648	648	7.80, 7.80	
1441	575	581	392	403	7.09, 7.12	
1428	978	988	685	691	7.91, 7.93	
1427	1027	1027	720	720	8.01, 8.01	
1464	785	—	536	—	7.58	1166

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1929phae.proj.126aP

New Series

DyP – R.A. 644 – July 9, 1929

Mag	Class	star	sys	x	Decl.	Dep.	Cl.	Dk.	vbt
		36	1668	1052	1157	1160	1550	067	
	p	19	1669	1160	1218	—	1564	067	
		37	1670	1192	1090	1140	1551	065	
		38	1660	1225	699	702	1539	067	
16.8		39	1689	831	1052	1052	1510	067	
		40	1695	1069	648	651	1541	064	
	p	20	1690	1110	1090	—	1534	068	
	p	21	1692	1199	1082	—	1568	068	
	p	22	1680	1240	906	—	1588	069	
		41	1682	1330	104	104	1538	062	
17.0		42	1702	579	1107	1107	1498	068	
		43	1702	641	1040	1042	1480	069	
		44	1707	642	1110	1130	1500	068	
		45	1700	775	560	562	1490	064	
	p	23	1709	619	6211	—	1551	070	
		46	1760	1246	970	972	1549	070	
	p	24	1698	1290	752	—	1595	070	
17.2	p	25	1733	475	1139	—	1501	080	
		47	1718	582	282	281	1490	076	
	p	26	1720	889	780	—	1508	075	
		48	1719	1060	749	760	1539	081	
	p	27	1731	1081	783	—	1540	081	
	p	28	1720	1086	488	—	1542	079	
		49	1717	1322	570	580	1581	077	
		50	1731	1350	998	1010	1577	079	
17.4	p	29	1740	591	981	—	1503	080	
	p	51	1738	599	648	648	1479	080	
		52	1747	1301	1077	1125	1584	081	
	p	30	1739	1323	522	—	1480	081	
17.6	p	31	1741	470	1090	—	1500	081	

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Cl. Dk.	Defl. Dk.	Defl. Dk	Reduced	Reduced	Magn.	L. Ns.
1483	1090	1093	735	737	8.03, 8.05	
1497	1151	—	769	—	8.13	
1486	1025	1075	691	724	7.93, 8.03	
1472	632	635	429	432	7.20, 7.22	
1443	985	985	682	682	7.81, 7.81	
1477	584	587	395	397	7.08, 7.10	
1466	1022	—	697	—	7.94	1244 ✓ v
1500	1014	—	676	—	7.88	
1519	837	—	551	—	7.54	8 ✓ x
1466	42	42	29	29	off curve, off course	
1430	1039	1039	725	725	8.08, 8.03	
1411	971	973	687	689	7.91, 7.92	
1432	1042	1062	729	742	8.03, 8.07	
1423	493	495	346	348	6.93, 6.95	
1481	551	—	372	—	7.03	
1479	900	902	608	610	7.69, 7.71	
1525	682	—	447	—	7.25	23 ✓ +
1421	1059	—	744	—	8.06	892 ✓ x
1414	206	205	145	144	6.01, 6.00	
1433	705	—	492	—	7.38	1109 ✓ v
1448	668	679	461	468	7.30, 7.36	
1459	702	—	481	—	7.35	1246 ✓ v
1463	409	—	279	—	6.66	1242 ✓ v
1504	493	503	328	334	6.86, 6.88	
1498	919	931	613	621	7.72, 7.76	
1423	901	—	632	—	7.76	907 ✓ v
1399	668	598	407	427	7.14, 7.19	
1503	996	1044	663	695	7.84, 7.96	
1399	441	—	306	—	6.76	51 ✓ x
1419	1009	—	711	—	7.99	880 ✓ x

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trip.	class	star	y	x	Defl.	Diff.	Cl.	Dk	wt.
	f	33	1762	528	961	981	1508	085	
	p	32	1765	691	1067	—	1512	088	
	p	33	1760	990	1018	—	1536	088	
	p	34	1770	1107	486	—	1572	088	
	f	34K	1769	1195	1139	—	1620	089	
	f	35	1767	1250	1080	—	1603	089	
17.8	f	54	1789	749	1104	1075	1529	088	
	f	55	1782	829	700	725	1511	089	
	f	56	1780	951	1100	1110	1559	090	
18.0	p	36	1808	349	871	—	1389	090	
	f	57	1802	871	1100	1150	1545	098	
	p	37	1797	1089	1041	—	1551	093	
	f	58	1801	1492	391	401	1629	091	
18.2	f	59	1839	665	500	500	1510	090	
	f	60	1821	889	1171	1190	1533	091	
	f	61	1831	935	939	941	1550	090	
	p	38	1820	941	780	—	1568	091	
	p	39	1820	1199	198	—	1578	091	
		10	1980	968	094	—	1438	090	
		1	1803	649	189	—	1478	090	
		2	—	—	200	—	1535	088	
		3	—	—	245	—	1542	087	
		4	—	—	400	—	1512	089	
		5	—	—	495	—	1522	081	
		6	—	—	701	—	1520	081	
		7	—	—	752	—	1530	083	
		8	—	—	1320	—	1560	089	500

continued in Book 62, Page 194

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1423	876	896	615	629	7.73, 7.75		
1424	979	—	686	—	7.91	948	✓
1448	930	—	642	—	7.80	1139	✓
1484	378	—	254	—	6.56	1379	✓
1531	1056	—	685	—	7.91		
1514	991	—	654	—	7.83		
1431	1016	989	710	690	7.97, 7.92		
1422	611	636	430	447	7.21, 7.25		
1469	1010	1020	688	695	7.91, 7.94		
1299	781	—	602	—	7.69	844	✓ x
1447	1002	1052	692	727	7.94, 8.02		
1458	948	—	658	—	7.84	f	✓ ✓
1532	300	316	196	202	6.27, 6.32		
1420	410	410	288	288	6.69, 6.64		
1442	1080	1099	748	761	8.05, 8.11		
1460	849	837	581	583	7.62, 7.64		
1477	689	—	466	—	7.31	1171	✓ ✓
1487	97	—	65	—	5.16	56	✓
1348	4	—	3	—			
1388	99	—	71	—			
1447	112	—	77	—			
1455	158	—	108	—			
1433	311	—	218	—			
1441	354	—	245	—			
1439	620	—	432	—			
1449	669	—	462	—			
1471	1231	—	836	—			

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