1931phae.proj.1283M

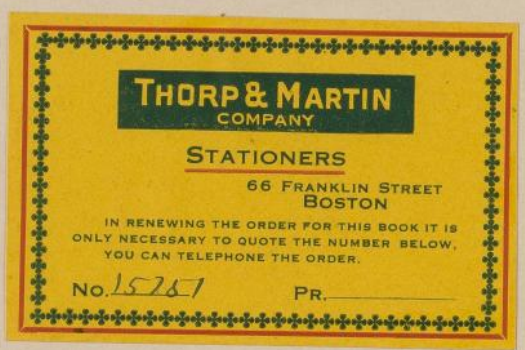
KG
11366
v.281

84

SCHILT

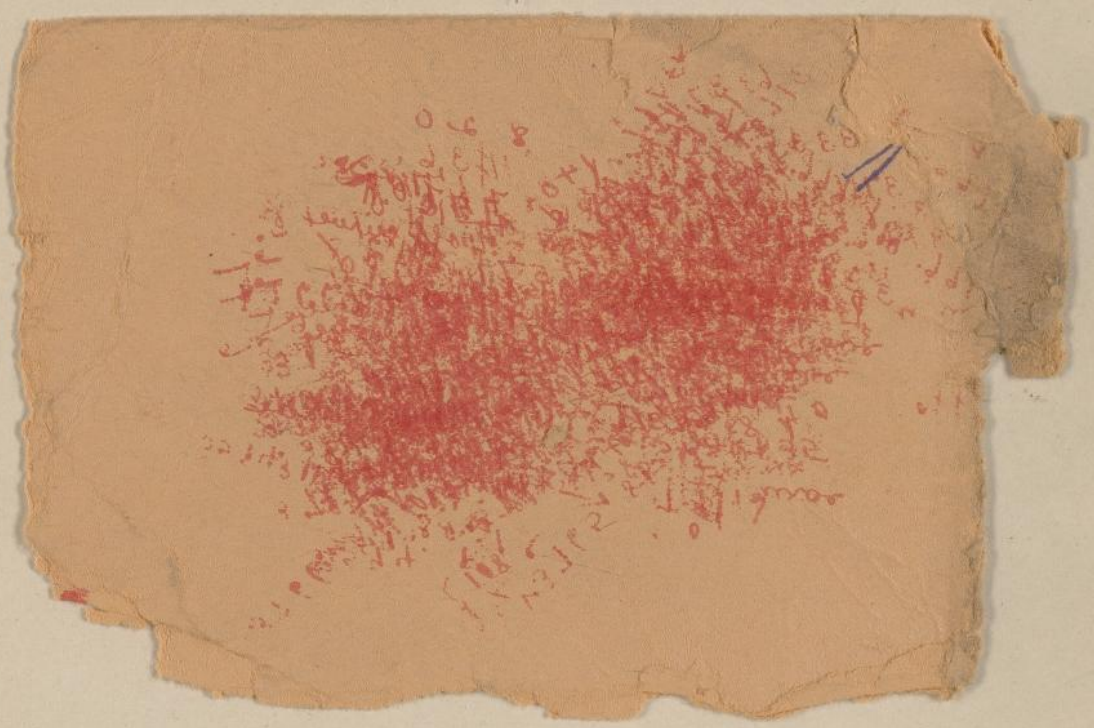
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1931phae.proj.12..3M

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1931phae.proj.128SM

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1931phae.proj.121M

2 cont. from Bk. 83, p. 180 ALP - R Her 688 - Dec. 22, 1931.

Stig.	Star	Y	Z	Diff	Diff	Cc	Dk	Calc
	1A	1951	987	1097	—	2172	1002	515
	1	1950	625	1238	—	2210	1017	
	2	—	—	1441	—	2191	1014	
	3	—	—	1482	—	2187	1013	
	4	—	—	1523	—	2218	1018	
	5	—	—	1624	—	2204	1017	
	6	—	—	1777	—	2241	1017	
	7	—	—	1820	—	2237	1016	
	8	—	—	2067	—	2217	1018	
	9	—	—	Not	—	seen		
20.2	✓104	2020	404	1983	1981	2238	1028	
	✓105	2020	754	1906	1907	2227	1053	
	✓106	2021	1400	1658	1642	2216	1032	
20.6	×107	2032	1169	2134	2143	2241	1027	
20.8	✓108	2080	3 659	1298	1280	2256	1027	
	✓109	2087	605	1962	1998	2314	1080	
	116	2088	811	1392	1372	2267	1024	
	×111	2080	1448	1402	1372	2245	1029	
21.0	✓112	2102	327	2104	2116	2279	1022	
	✓113	2100	470	1856	1872	2273	1022	
	✓114	2113	496	1423	1443	2279	1032	
21.2	✓115	2120	408	1353	1332	2252	1024	
	✓116	2120	452	1748	1766	2254	1002	
	✓117	2132	453	1860	1860	2241	1014	
	✓118	2122	737	2122	2103	2227	1027	
	✓119	2120	1282	2043	2044	2214	1002	
21.4	✓120	2149	1036	1707	1702	2252	1024	
21.6	✓121	2170	386	1367	1359	2262	1017	
	✓122	2159	557	1941	1952	2281	1044	
	✓123	2170	592	1422	1431	2259	1039	

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1931phae.proj.:120M

Cl-Dk	Def-Dk	Def-Dk	Red Def	Red Def	mag.		Remarks
1170	95	—	81	—			
1193	221	—	185	—			
1177	427	—	363	—			
1174	469	—	400	—			
1200	515	—	430	—			
1187	607	—	513	—			
1224	760	—	620	—			
1221	804	—	658	—			
1199	1049	—	875	—			
—	—	—	—	—			
1210	955	953	790	787	793	791	✓
1174	853	854	727	728	763	763	✓
1184	626	610	528	514	650	645	✓
1214	1107	1116	912	955	850	Nunc	x
1229	271	253	220	206	460	445	✓
1234	882	918	715	745	758	772	✓
1243	368	348	296	280	511	501	✓
1216	373	343	308	282	520	502	x outside circle
1257	1082	1094	861	872	824	830	✓
1251	834	850	667	679	731	738	✓
1247	391	411	313	330	523	532	✓
1228	329	308	268	250	491	480	✓
1252	746	764	597	611	691	702	✓
1227	846	846	690	690	744	744	✓
1200	1095	1076	913	896	849	840	✓
1212	1041	1042	860	860	823	823	✓
1228	683	678	556	552	667	666	✓
1245	350	342	281	274	501	498	✓
1237	897	908	727	735	763	768	✓
1220	393	392	322	321	530	530	

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1931phae.proj.128M

Wyo - RA 688 - Dec. 22, 1931.

Trig	Star	y	x	dyE	dyE	α	dk	Vol.
	124	2171	680	1878	1888	2238	1056	
	125	2163	268	2028	2062	2297	1057	
	126	2162	840	2117	2130	2300	1052	
	127	2162	989	2202	2217	2288	1054	
	128	2177	1194	1922	1932	2313	1068	
21.8	129	2190	412	1313	1372	2294	1068	
	130	2181	512	1947	1954	2307	1063	
	131	2179	769	2121	2139	2298	1039	
	132	2178	940	2096	2102	2284	1058	
	133	2182	1341	1308	1264	2277	1063	
	134	2190	1368	2052	2055	2262	1063	
22.0	135	2208	1057	1979	1980	2298	1077	
	136	2203	1444	1534	1534	2303	1088	
22.2	137	2226	538	1403	1440	2290	1088	
	138	2232	538	1267	1254	2213	1096	
	139	2229	1162	2072	2066	2271	1094	
22.4	140	2242	378	2182	2183	2292	1100	
22.6	141	2276	519	2086	2096	2307	1108	
	142	2270	738	1792	1773	2296	1092	
	143	2268	832	2136	2147	2313	1093	
	144	2270	1190	2099	2123	2292	1092	
	145	2271	1414	1813	1877	2272	1084	
22.8	146	2286	388	2066	2073	2320	1083	
	147	2280	658	1286	1278	2321	1084	
	148	2282	671	1930	1959	2319	1084	
	149	2295	930	1638	1686	2303	1073	
23.0	150	2298	504	2232	2236	2339	1086	
	151	2300	579	1358	1340	2308	1082	
	152	2311	824	2004	2013	2319	1092	
23.2	153	2330	773	1547	1520	2302	1083	

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1931phae.proj.1203M

cl-Dk	Dyl-Dk	Dyl-Dk	Red Dyl	Red Dyl	Mag.		
1182	822	832	695	705	747	753	✓
1240	966	1005	780	810	789	802	+ outside circle
1248	1065	1078	855	865	821	826	✓
1234	1148	1163	930	944	off curve		+
1245	854	864	685	694	742	747	✓
1226	245	304	200	248	443	478	✓
1244	884	891	710	716	753	758	✓
1259	1082	1100	860	875	823	830	✓
1226	1038	1044	845	850	817	820	✓
1214	245	201	210	166	450	410	✓
1199	989	992	825	829	809	810	✓
1221	902	903	739	740	769	770	✓
1215	446	446	368	368	555	555	+ outside circle
1242	315	352	254	283	485	503	✓
1220	174	161	143	132	388	370	✓
1177	978	972	832	826	811	810	✓
1192	1082	1083	906	908	844	845	
1199	978	985	815	822	805	809	✓
1204	700	681	582	566	683	671	✓
1220	1043	1054	855	864	821	826	✓
1206	1007	1031	839	860	814	822	✓
1188	729	793	614	666	703	731	+ outside circle
1237	983	990	795	800	796	799	✓
1237	202	194	163	157	409	399	✓
1235	846	875	685	708	741	751	✓
1230	565	613	460	497	610	633	+
1253	1146	1150	915	917	850	off curve	✓
1226	276	258	225	210	463	400	✓
1227	912	921	744	751	767	777	✓
1219	464	437	380	359	563	550	

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1931phae.proj.128SM

Alp - R.A. 688 - Dec. 22, 1931

Temp	Star	y	x	Diff	Diff	Ce	Dk	Date
	✓154	2334	1134	1840	1868	2302	1084	
	✓155	2321	1391	1639	1656	2281	1087	
23.4	✓156	2351	646	1920	1891	2342	1093	
	✓157	2336	1198	1990	1970	2312	1096	
	✓158	2351	1293	2018	2014	2317	1098	
23.6	✓159	2370	421	1928	1923	2319	1093	
	✓160	2358	428	2142	2153	2317	1089	
	✓161	2371	539	2097	2104	2342	1094	
	✓162	2309	968	1522	1514	2317	1083	
	✓163	2367	1198	2110	2147	2282	1070	
23.8	✓164	2391	890	1900	1903	2312	1073	
	✓165	2390	1398	2152	2163	2288	1066	
24.0	✓166	2400	914	1614	1667	2307	1052	
	✓167	2400	1147	1994	1992	2319	1070	
	✓168	2390	1153	2060	2091	2313	1072	
	✓169	2400	1187	2108	2110	2327	1068	
	✓170	2398	1221	1700	1698	2293	1067	
	✓171	2409	1316	2144	2142	2310	1070	
	1A	1951	987	1163	—	2303	1064	
	1	1950	625	1344	—	2367	1079	
	2	—	—	1513	—	2334	1063	510
	3	—	—	1578	—	2323	1061	
	4	—	—	1607	—	2346	1071	
	5	—	—	1701	—	2328	1069	
	6	—	—	1860	—	2360	1063	
	7	—	—	1938	—	2352	1073	
	8	—	—	2177	—	2323	1072	
	9	—	—	Not	—	rec'd		

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1931phae.proj..128W

α-Dk	Dec-Dk	Decl-Dk	Red Dec	Red Decl	Mag.		Remarks
1218	756	784	622	644	707	720	
1194	552	569	463	476	613	620	+ outside circle
1249	827	798	664	640	731	717	
1216	894	874	735	718	768	759	
1219	920	916	755	753	777	777	
1226	835	830	680	676	740	736	
1228	1053	1064	857	866	821	826	
1248	1003	1010	804	810	801	802	
1234	439	431	356	350	550	546	
1212	1040	1077	857	887	822	835	
1239	827	830	667	670	730	733	
1222	1086	1097	888	896	836	840	
1255	562	615	447	490	605	628	
1249	924	922	740	739	770	769	
1241	988	1019	795	820	794	806	
1259	1040	1042	826	829	809	810	
1226	633	631	515	514	646	644	
1240	1074	1072	865	864	826	826	
1239	99	—	80	—			
1288	265	—	206	—			
1271	450	—	354	—			
1262	517	—	410	—			
1275	536	—	421	—			
1259	632	—	503	—			
1297	797	—	615	—			
1279	865	—	677	—			
1251	1105	—	884	—			
—	—	—	—	—			

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1931phae.proj.128SM

8

2 gp - RX 688 - Dec. 23, 1931.

trig	star	y	x	dyc	dyc	cc	dk	Delta
	10	1951	968	1133	—	2292	995	510
	1	1950	593	1294	—	2282	1003	
	2	—	—	1439	—	2313	1008	
	3	—	—	1557	—	2326	1011	
	4	—	—	1578	—	2353	1017	
	5	—	—	1701	—	2357	1041	
	6	—	—	1854	—	2380	1034	
	7	—	—	1940	—	2363	1031	
	8	—	—	2197	—	2376	1034	
	9	—	—	not	—	seen.		
24.2	✓ 172	2430	481	1967	2092	2378	1041	
	✓ 173	2420	491	1559	1571	2386	1044	
	✓ 174	2416	691	2089	2102	2403	1049	
	✓ 175	2420	1205	2103	2109	2367	1053	
24.4	✓ 176	2454	1167	1558	1580	2407	1064	
	✓ 177	2450	1222	2123	2139	2388	1067	
24.6	✓ 178	2462	1007	2236	2274	2403	1078	
25.0	✓ 179	2500	667	2053	2054	2463	1089	
	✓ 180	2503	812	1673	1706	2449	1090	
	✓ 181	2500	1204	1449	1453	2483	1098	
25.2	✓ 182	2524	1110	1904	1921	2439	1104	
	✓ 183	2518	1144	2321	2316	2453	1114	
25.4	✓ 184	2550	771	2366	2389	2467	1094	
25.8	✓ 185	2580	954	2176	2229	2525	1118	
	10	1951	968	1228	—	2428	1123	
	1	1950	593	1413	—	2392	1121	
	2	—	—	1558	—	2457	1123	
	3	—	—	1643	—	2426	1123	
	4	—	—	1656	—	2443	1121	
	5	—	—	1773	—	2421	1124	

Plate
Invalid

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1931phae.proj.128.M

Cl–Dk	Defl–Dk	Defl–Dk	Red Defl	Red Defl	Mag		
1297	138	—	107	—			
1279	291	—	228	—			
1305	431	—	331	—			
1315	546	—	416	—			
1336	561	—	422	—			
1316	660	—	502	—			
1346	820	—	610	—			
1332	909	—	683	—			
1342	1163	—	867	—			
1337	926	1051	695	788	747	790	✓
1342	515	527	384	394	570	575	✓
1354	1040	1063	768	785	780	789	✓
1314	1040	1056	792	803	793	800	✓
1343	494	521	368	389	557	570	✓
1321	1066	1072	808	812	800	803	✓
1375	1158	1196	842	869	816	827	✓
1374	964	965	701	702	750	751	✓
1359	583	616	430	455	600	620	✓
1385	351	355	254	256	463	465	
1335	800	817	599	612	701	710	✓
1339	1207	1202	903	900	842	840	✓
1373	1272	1295	927	942	851	off curve	+
1407	1058	1111	753	791	776	793	✓
1305	105	—	81	—			
1271	292	—	229	—			
1334	435	—	326	—			
1303	520	—	399	—			
1322	535	—	405	—			
1297	649	—	502	—			

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1931phae.proj.128SM

Dgp- RH 688- Dec. 23, 1931.

Fig	Star	y	x	Δeff	Δeff	Ce	Δk	Volts
	6	—	—	1943	—	2441	1132	
First	7	—	—	2014	—	2462	1138	
	8	—	—	2281	—	2431	1138	510
	9	—	—	Not	—	seen.	—	

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1931phae.proj.128.2M

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.
1309	811	—	620	—	
1324	876	—	663	—	
1293	1143	—	885	—	

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1931phae.proj.128M

ZP - R + 689 - Aug. 24, 1931.

Strip	Star	y	x	Defl	Defl	Cl	Obs	Volts
	1	1946	978	1197	—	2158	1026	510
		1954	617	1436	—	2168	1008	
	2	—	—	1567	—	2213	1006	
	3	—	—	1664	—	2216	998	
	4	—	—	1700	—	2203	1011	
	5	—	—	1758	—	2200	1000	
	6	—	—	1823	—	2173	988	
	7	—	—	1822	—	2112	999	
	8	—	—	1992	—	2103	1007	
	9	—	—	Not	—	rec'n.		
15.2	x1	1528	998	2013	2012	2059	1003	
15.4	x2	1550	600	1968	1967	2043	1007	
	✓3	1551	713	1478	1478	2027	1003	
	✓4	1551	918	1884	1889	2092	997	
	x5	1534	957	2022	2052	2112	1012	
15.6	✓6	1577	652	1967	1978	2106	1019	
15.8	✓7	1590	782	1987	1949	2083	1019	
	✓8	1580	796	1970	1949	2083	1022	
	x9	1580	1086	2002	2016	2090	1014	
16.0	✓10	1612	542	1892	1932	2078	1022	
	✓11	1611	730	2006	2011	2070	1016	
	✓12	1613	918	1977	1993	2067	1016	
	✓13	1612	1102	1977	1978	2088	1017	
16.2	✓14	1620	549	1463	1456	2071	1017	
	✓15	1620	577	1922	1914	2009	1023	
	✓16	1622	632	1080	1082	2080	1022	
	✓17	1629	682	1557	1558	2006	1022	
	✓18	1620	1070	1929	1920	2088	1019	
16.4	✓19	1651	532	1750	1750	2068	1037	
	✓20	1646	599	1303	1297	2067	1033	

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1931phae.proj.128M

Cl.-Dk	Defl.-Dk.	Defl.-Dk.	Red. Defl.	Red. Defl.	Magn.	
1132	171	—	151	—		
1160	428	—	370	—		
1207	561	—	465	—		
1218	666	—	547	—		
1192	689	—	577	—		
~~1200~~	758	—	633	—		
1185	835	—	705	—		
1113	823	—	738	—		
1096	985	—	898	—		
1056	1010	1009	955	955	off curve	× outside circle
1036	961	960	926	925	off curve	+ " "
1024	475	475	464	464	514 514	✓
1095	887	892	810	815	787 790	✓
1100	1010	1040	918	945	849 off curve	+ " "
1087	948	959	874	883	824 829	✓
1064	918	930	863	875	817 823	✓
1061	948	927	893	874	833 824	✓
1076	988	1002	916	930	847 off curve	+ " "
1048	870	910	830	868	798 820	✓
1054	990	995	940	945	off curve	✓
1051	961	977	915	930	847 off curve	✓
1071	960	971	895	906	836 842	✓
1054	446	439	424	416	481 473	✓
1036	899	891	868	860	818 814	✓
1058	558	560	528	530	570 573	✓
1034	535	536	518	518	560 560	✓
1069	910	911	854	854	811 811	✓
1031	713	713	691	691	705 705	✓
1034	270	264	262	256	349 342	

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1931phae.proj.128M

L.P. R.A. 689 - Dec. 24, 1931.

Trip	Star	y	x	Llpl	Llpl	Ce	Lk - Volts
	✓ 21	1652	598	1454	1436	2067	1033
	✓ 22	1640	660	1965	1965	2077	1033
	✓ 23	1641	671	1670	1670	2077	1027
	✓ 24	1647	777	1772	1761	2064	1031
	✓ 25	1640	831	1477	1475	2063	1024
	✓ 26	1607	834	1420	1389	2070	1042
	✓ 27	1603	1059	1997	2006	2128	1048
	✓ 28	1654	1065	1908	1918	2112	1050
16.6	✓ 29	1670	608	1764	1817	2117	1072
	✓ 30	1673	642	1500	1488	2136	1082
	✓ 31	1670	648	1794	1803	2152	1078
	✓ 32	1660	809	1642	1610	2136	1078
	✓ 33	1658	898	2062	2059	2157	1083
	✓ 34	1660	1158	2010	2017	2168	1090
16.8	✓ 35	1690	596	1642	1662	2123	1088
	✓ 36	1688	710	1783	1793	2139	1086
	✓ 37	1682	1088	1971	1996	2162	1087
17.0	✓ 38	1704	760	1217	1216	2123	1087
	✓ 39	1703	1178	1898	1913	2172	1098
17.2	46	1730	470	2068	2073	2142	1097
	✓ 41	1729	485	1657	1677	2163	1094
	✓ 42	1720	1041	1883	1968	2154	1092
	✓ 43	1725	1188	1861	1865	2167	1093
17.4	✓ 44	1739	608	2040	2063	2131	1092
	✓ 45	1736	551	2047	2068	2122	1092
	46	1751	561	2028	2038	2136	1097
	✓ 47	1750	740	2046	2062	2136	1088
	✓ 48	1737	1219	2077	2092	2173	1093
17.6	✓ 49	1758	668	1832	1847	2123	1088
	✓ 50	1762	655	2059	2058	2127	1082

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1931phae.proj.128.2M

Ce.-Dk	Defl.-Dk.	Defl.-Dk.	Red. Defl.	Red. Defl.	Magn.		Remarks
1034	421	403	406	390	463	452	✓
1044	932	432	892	892	835	835	✓
1051	643	643	611	611	643	643	✓
1033	741	730	716	706	725	718	✓
1039	453	451	436	435	490	490	✓
1028	378	347	368	338	435	408	✓
1080	949	958	879	886	825	830	✓
1062	858	818	808	816	785	790	✓
1045	692	745	662	715	683	725	✓
1054	418	406	398	386	458	449	✓
1074	716	725	666	675	687	693	✓
1058	564	532	534	503	577	550	✓
1074	979	976	911	910	845	844	✓
1078	920	927	854	860	811	813	✓
1035	554	574	535	554	577	593	✓
1053	697	707	663	672	683	691	✓
1075	884	909	821	845	793	806	✓
1036	130	129	125	124	off curve		too bright
1074	800	815	745	760	745	753	✓
1045	971	976	930	935	off curve		
1069	563	583	526	545	569	585	✓
1062	791	876	745	825	745	796	✓
1074	768	772	715	719	724	727	✓
1039	948	961	913	925	848	off curve	✓
1030	955	976	926	949	off curve		✓
1039	931	941	896	906	836	842	
1048	958	974	915	929	848	off curve	✓
1080	984	999	910	925	844	off curve	✓
1035	744	759	718	733	727	738	✓
1045	977	976	935	935	off curve		

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1931phae.proj.128SM

DP- RH 689- Dec. 24, 1931.

Strip	Spec	y	b	Diff	Diff	Ce	dk	Volts.
	51	1775	604	2030	2030	2132	1083	
	52	1768	741	2068	2077	2130	1082	
	53	1774	1078	1917	1918	2196	1092	
	54	1761	1108	1932	1958	2200	1100	
	55	1774	1230	1815	1827	2216	1098	
17.8	56	1790	000	1527	1504	2150	1096	
	57	1790	541	1961	1973	2132	1098	
	58	1789	821	1987	2010	2143	1096	
	59	1790	883	2037	2040	2137	1093	
18.0	60	1800	477	1510	1494	2133	1094	
	61	1800	617	1893	1882	2140	1100	
	62	1811	628	1961	1962	2134	1097	
18.2	63	1826	381	1998	2057	2113	1102	
	64	1832	032	1450	1444	2132	1106	
	65	1829	620	1888	1898	2102	1102	
	66	1819	733	2013	1994	2140	1096	
	67	1830	1037	2018	2023	2157	1093	
18.4	68	1841	709	1683	1692	2143	1097	
18.6	69	1868	442	2032	2039	2132	1101	
	70	1860	068	1792	1798	2153	1098	
18.8	71	1880	448	1822	1862	2163	1103	
	72	1880	737	2036	2052	2173	1102	
	73	1891	789	1872	1887	2166	1108	
	74	1890	1004	2120	2119	2178	1110	
	75	1882	1391	1984	1987	2179	1114	
19.0	76	1911	422	1670	1696	2141	1113	
	77	1903	772	2072	2048	2148	1108	
	78	1910	817	2049	2072	2148	1108	
	79	1910	911	1928	1992	2168	1108	
	80	1912	986	1902	1908	2224	1106	

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1931phae.proj.128.M

Cl.-Dk.	Defl.-Dk.	Defl-Dk.	Red. Defl.	Red. Defl	Magn.	
1049	947	955	903	910	843 844	✓
1048	986	995	942	940	off curve	+
1101	825	826	749	750	747 749	✓
1100	832	858	756	780	751 768	✓
1118	717	729	641	651	665 673	✓
1054	431	408	408	388	466 450	✓
1034	863	875	834	845	801 805	✓
1047	891	914	851	874	810 824	✓
1044	944	947	904	907	843 843	✓
1029	416	400	406	390	464 451	✓
1040	793	782	761	752	755 750	✓
1037	864	815	833	835	800 800	✓
1011	896	955	887	945	880 off curve	✓
1026	344	308	335	300	404 378	✓
1050	786	796	750	760	748 753	✓
1044	917	898	880	862	827 817	✓
1064	925	930	870	875	821 823	✓
1046	586	595	561	570	600 605	✓
1031	931	938	903	910	841 843	✓
1055	694	700	667	664	679, 685	✓
1060	719	759	677	715	697, 724	✓
1071	934	950	870	886	820 830	✓
1058	764	799	721	735	730 737	✓
1068	1010	1009	945	945	off curve	✓
1035	870	879	840	843	802 807	✓
1028	557	583	540	566	581 602	✓
1040	964	940	925	903	off curve 841	✓
1040	941	964	904	926	842 off curve	✓
1060	820	884	774	835	765 800	✓
1118	796	812	912	717	723 724	✓

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1931phae.proj.12:3M

A.P. – R.A. 689 – Dec. 24, 1931.

Strip	Star	y	x	dy/dt	dy/dt	cc	Dk	Volts
	✓ 81	1911	1037	1963	1966	2206	1109	
19.2	✓ 82	1925	518	1940	1948	2183	1108	
	✓ 83	1938	522	1704	1720	2139	1113	
	✓ 84	1920	542	2009	2007	2143	1107	
	✓ 85	1926	1096	1544	1552	2163	1108	
	× 86	1921	1056	1642	1642	2163	1109	
19.4	✓ 87	1907	420	1984	1989	2137	1109	
	88	1938	522	1707	1713	2137	1106	
	✓ 89	1942	567	2023	2018	2163	1111	
	✓ 90	1900	601	1517	1496	2135	1103	
19.6	✓ 91	1965	698	2052	2073	2142	1102	
19.8	✓ 92	1978	452	2067	2070	2133	1107	
	✓ 93	1989	1171	1746	1748	2136	1098	
20.0	✓ 94	2000	951	1850	1869	2115	1103	
	✓ 95	2010	568	1947	1943	2146	1104	
	✓ 96	2010	639	1891	1922	2148	1110	
	✓ 97	2013	756	1863	1847	2179	1098	
	✓ 98	2002	774	1914	1938	2142	1102	
	10.	1946	978	1270	—	2172	1107	
	1	1954	617	1511	—	2124	1103	
	2	—	—	1586	—	2147	1103	
	3	—	—	1687	—	2161	1107	
	4	—	—	1706	—	2153	1111	
	5	—	—	1764	—	2164	1111	
	6	—	—	1843	—	2170	1108	
	7	—	—	1860	—	2145	1110	
	8	—	—	2072	—	2193	1107	500
	9	—	—	not	—	seen		

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1994phae.proj.126M

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Rel. Defl.	Rel. Defl.	Magn.		Remarks
1097	854	857	780	782	768	770	✓
1025	832	840	810	818	787	790	✓
1026	591	627	586	611	620	643	✓ ✓
1036	902	900	870	868	821	819	
1055	436	424	414	402	473	462	✓
1054	533	533	506	506	550	550	+ outside circle
1028	875	880	852	857	810	811	✓
1031	601	607	584	589	620	621	✓
1052	912	907	867	863	819	817	✓
1032	414	393	402	382	463	448	✓
1040	960	971	913	985	846	off curve	✓
1026	960	963	935	938	off curve		✓ ✓
1058	648	650	613	615	643	644	
1012	747	766	739	758	739	751	✓ ✓
1042	843	839	810	805	785	783	
1038	781	812	752	782	750	771	✓
1081	765	749	708	692	720	707	✓
1042	812	836	779	803	766	782	✓
1065	163	—	153	—			
1021	408	—	400	—			
1044	483	—	472	—			
1054	580	—	548	—			
1042	595	—	572	—			
1053	653	—	621	—			
1062	735	—	688	—			
1035	750	—	723	—			
1086	965	—	889	—			

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1931phae.proj.1203M

N.P. - R.A. 689 - Aug. 26, 1931.

Trip	Star	γ	δ	Aapl	Aapl	Cc	Ck	Dalets
	11	1946	978	1212	—	2201	1068	535
	1	1954	617	1424	—	2190	1082	
	2	—	—	1552	—	2221	1096	
	3	—	—	1658	—	2214	1080	
	4	—	—	1641	—	2202	1090	
	5	—	—	1736	—	2219	1104	
	6	—	—	1846	—	2221	1102	
	7	—	—	1906	—	2232	1117	
	8	—	—	2120	—	2251	1119	
	9	—	—	Not	—	seen.		
20.2	√99	2021	404	2036	2032	2213	1117	
	√100	2021	754	2013	2021	2244	1132	
	√101	2027	1399	1796	1807	2273	1126	
20.6	x 102	2062	1174	2182	2197	2298	1152	
20.8	√ 103	2080	359	1497	1496	2233	1134	
	√104	2088	604	2008	2072	2268	1168	
	√105	2089	810	1623	1609	2282	1138	
	x 106	2086	1457	1552	1548	2300	1153	
21.0	√107	2104	327	2172	2176	2262	1160	
	√ 108	2100	469	1976	1969	2262	1163	
	√109	2116	495	1637	1641	2270	1159	
21.2	√110	2120	408	1538	1552	2246	1156	
	√111	2120	451	1869	1880	2238	1138	
	√112	2137	452	1978	1982	2243	1153	
	√113	2123	1280	2154	2150	2277	1147	
	√114	2117	1313	2198	2187	2267	1147	
21.4	√115	2148	399	2118	2127	2228	1152	
	√116	2150	1033	1892	1888	2224	1153	
	√ 117	2171	385	1649	1623	2280	1141	
	√ 118	2160	554	2040	2050	2277	1132	

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1931phae.proj..126M

α-Dk	Dyf-Dk	Dyf-Dk	Red Dyf	Red Dyf	Mag.		
1133	144	—	127	—			
1108	342	—	309	—			
1125	456	—	405	—			
1134	578	—	510	—			
1112	551	—	495	—			
1115	629	—	563	—			
1119	741	—	663	—			
1115	889	—	797	—			
1132	1001	—	885	—			
1096	919	915	841	837	814	811	✓
1112	881	889	792	798	791	793	✓
1147	667	681	582	594	652	661	✓
1146	1030	1045	900	912	841	846	+
1099	363	359	330	327	461	460	✓
1100	840	904	763	822	774	805	✓
1144	485	471	424	413	534	524	✓
1147	399	395	349	346	475	473	+ outside circle
1102	1012	1013	917	917	848	848	✓
1099	813	806	740	735	761	758	✓
1111	478	482	430	434	539	542	✓
1090	382	396	350	364	476	489	✓
1100	731	742	665	674	714	720	✓
1090	825	829	758	760	771	773	✓
1130	1007	1003	890	887	837	835	✓
1120	1051	1040	940	928	off cume		✓
1076	966	975	898	906	840	843	✓
1181	739	735	627	623	687	683	✓
1139	508	482	444	424	549	534	✓
1145	908	918	794	802	791	796	

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1931phae.proj.12433M

Dec. 26, 1931.

Trip	Star	y	x	Dyc	Dyc	cc	Dk	Plate
	119	2150	1034	1871	1868	2330	1144	
21.6	120	2171	395	1638	1606	2282	1143	
	121	2160	555	2088	2051	2296	1138	
	122	2171	591	1641	1649	2303	1152	
	123	2173	679	1988	2006	2262	1128	
	124	2167	767	2104	2120	2330	1138	
	125	2165	839	2177	2196	2299	1147	
	126	2167	988	2250	2241	2322	1146	
	127	2160	1068	2020	1994	2327	1147	
21.8	128	2190	712	1527	1540	2250	1138	
	129	2183	611	1986	1993	2270	1131	
	130	2180	768	2181	2182	2288	1137	
	131	2180	940	2096	2140	2294	1143	
	132	2180	1196	1992	2000	2343	1141	
	133	2189	1339	1504	1482	2328	1162	
	134	2193	1367	2157	2143	2317	1136	
22.0	135	2210	1054	2052	2048	2300	1136	
22.2	136	2228	538	1534	1548	2287	1148	
	137	2236	537	1422	1427	2293	1154	
	138	2230	1162	2127	2132	2323	1135	
22.4	139	2243	386	2196	2198	2276	1143	
22.6	140	2271	737	1872	1897	2297	1150	
	141	2269	831	2178	2182	2287	1142	
	142	2271	1188	2158	2177	2320	1142	
	143	2277	1413	1940	1919	2313	1140	
22.8	144	2287	385	2090	2100	2270	1147	
	145	2278	528	2110	2148	2278	1147	
	146	2282	558	1460	1416	2281	1143	
	147	2286	670	1978	1988	2278	1133	
23.0	148	2301	579	1481	1443	2263	1124	

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1931phae.proj.128M

cl – Dk	Defl – Dk	Defl – Dk	Red Defl	Red Defl	Mag		Remarks
1186	727	724	614	611	679,	676	✓
1139	495	460	435	404	541	519	✓
1155	900	913	780	791	783	790	✓
1151	489	497	425	432	536	541	✓
1139	865	883	761	776	775	782	✓
1192	966	982	812	825	801	806	✓
1152	1030	1049	895	910	840	844	✓
1176	1084	1095	922	933	850	off curve	+
1180	873	847	741	720	763	750	✓
1117	394	407	352	364	480	490	✓
1139	855	862	752	757	775	770	✓
1151	1044	1046	906	908	842	848	✓
1151	953	997	828	867	807	828	✓
1202	851	859	709	715	743	747	✓
1166	342	320	293	274	482	415	✓
1181	1021	1007	865	853	826	820	–
1164	916	912	787	782	788	787	✓
1139	386	400	339	351	467	479	✓
1138	268	273	235	240	373	380	✓
1188	992	997	836	840	809	812	✓
1135	1053	1055	926	928	850	off curve	✓
1147	722	747	630	651	689	703	✓
1145	1036	1040	905	908	843	844	✓
1178	1016	1035	863	880	824	832	✓
1173	800	779	683	665	725	713	+ outside circle
1123	943	953	839	848	810	815	✓
1131	963	1001	851	886	819	834	✓
1138	317	273	278	238	418	377	✓
1145	845	855	738	750	760	768	✓
1139	357	349	313	306	449	443	✓

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1931phae.proj.128M

ZP-RZ 689 - Dec. 26, 1931.

Long	Star	and m. m	Yale	Dec	Ce	Dk Plates.	
	149	2300	930	1726	1713	2291	1122
23.2	150	2301	772	1652	1646	2297	1143
	151	2314	826	2031	2043	2303	1154
	152	2328	1388	1786	1725	2316	1153
23.4	153	2354	645	1948	1950	2283	1146
	154	2340	1133	1954	1989	2333	1139
	155	2340	1198	2081	2090	2323	1106
23.6	156	2370	420	2004	1999	2286	1151
	157	2360	427	2171	2163	2293	1151
	158	2372	038	2108	2111	2296	1143
	159	2361	967	1645	1648	2311	1143
	160	2360	1137	2153	2160	2320	1152
	161	2357	1293	2053	2053	2322	1150
23.8	162	2396	890	1958	1968	2302	1142
24.0	163	2402	914	1757	1748	2316	1166
	164	2402	938	2197	2193	2321	1145
	165	2400	1145	2064	2057	2327	1153
	166	2397	1156	2110	2102	2326	1143
	167	2403	1186	2158	2160	2342	1144
	168	2400	1220	1817	1793	2323	1142
	169	2411	1314	2151	2152	2316	1143
	170	2393	1337	2205	2194	2327	1152
	171	2430	500	1958	1982	2282	1158
24.2	172	2420	510	1662	1660	2252	1153
	173	2418	710	2043	2061	2262	1152
	174	2417	1128	2067	2069	2291	1156
	175	2422	1273	2101	2091	2285	1149
24.4	176	2456	1188	1682	1671	2356	1142
	177	2451	1241	2103	2099	2351	1153
24.6	178	2464	1026	2205	2179	2343	1153

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1934phae.proj.129.pdf

Cl-Dk	Defl Dk	Defl Dk	Red Defl	Red Defl	Mag		Remarks
1169	601	591	515	506	600	592	✓
1154	509	503	441	435	546	542	✓
1149	877	889	765	775	776	782	✓
1163	633	572	545	492	628	584	+ outside circle
1137	802	804	705	706	740	741	✓
1194	815	850	683	713	726	748	✓
1167	925	934	793	800	791	793	✓
1135	853	848	752	744	770	764	✓
1142	1020	1042	894	914	839	847	✓
1150	965	968	840	842	812	813	✓
1168	502	505	430	432	538	541	✓
1178	1001	1008	850	855	817	821	✓
1187	918	918	773	773	782	782	✓
1160	816	826	705	721	741	751	✓
1150	591	582	514	507	600	592	✓
1176	1052	1048	895	892	841	840	✓
1174	911	904	775	768	782	777	✓
1183	967	959	818	810	802	800	✓
1198	1014	1016	847	848	815	816	✓
1181	675	651	571	550	646	627	✓
1173	1008	1009	860	861	822	821	+ outside circle
1175	1053	1042	898	888	840	837	✓
1124	800	824	711	732	741	759	✓
1099	509	507	463	462	561	560	✓
1110	891	909	803	819	797	803	✓
1135	911	913	802	805	796	798	✓
1136	952	942	839	830	810	808	✓
1214	540	529	445	434	548	542	✓
1198	950	946	793	790	792	788	✓
1190	1052	1026	885	863	833	825	✓

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1931phae.proj.128M

m.m. — RH 689 — Dec. 26, 1931.

Strip	Star	y	x	Dfl.	Dfl.	Cl.	Dk.	volt
25.0	✓ 179	2501	686	2028	2067	2318	1162	
	✓ 180	2506	831	1708	1702	2342	1161	
	✓ 181	2501	1223	1554	1582	2343	1142	
25.2	✓ 182	2528	1130	1860	1908	2332	1130	
	✓ 183	2521	1164	2223	2218	2351	1141	
25.8	✓ 184	2584	972	2047	2056	2323	1143	
	15	1946	978	1317	—	2324	1149	
	1	1954	617	1488	—	2303	1136	
	2	—	—	1650	—	2328	1135	
	3	—	—	1738	—	2321	1138	
	4	—	—	1732	—	2310	1142	
	5	—	—	1825	—	2329	1140	
	6	—	—	1909	—	2321	1135	
	7	—	—	1973	—	2325	1125	
	8	—	—	2186	—	2317	1130	
	9	—	—	not	—	seen		5.25

Plate finished

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1934phae.proj..128PM

C-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.		Remarks
1156	866	905	749	783	765	786	✓
1181	547	541	463	458	562	557	✓
1201	412	440	344	367	472	489	✓
1202	730	778	608	647	670	699	✓
1210	1082	1077	895	890	839	836	✓
1180	904	913	765	773	777	781	✓
1175	168	—	143	—			
1167	352	—	301	—			
1193	515	—	432	—			
1183	600	—	508	—			
1168	590	—	506	—			
1189	685	—	577	—			
1186	774	—	652	—			
1200	848	—	706	—			
1187	1056	—	889	—			
—	—	—	—	—			

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1931phae.proj.1243M

M. M. – RH 3633 – Dec. 26, 1931.

Strip	Star	y	x	Defl.	Defl	Cl.	Dk.	Volt.
	5	1951	991	1232		2001	1109	5.28
	1	1842	647	1516	—	2032	1125	
	2	—	—	1661	—	2038	1103	
	3	—	—	1720	—	2040	1123	
	4	—	—	1733	—	2058	1125	
	5	—	—	1762	—	2047	1110	
	6	—	—	1831	—	2057	1129	
	7	—	—	1850	—	2093	1128	
	8	—	—	1959	—	2072	1138	
	9	—	—	2010	—	2080	1142	
15.0	1	1519	730	1610	1610	2013	1133	
15.2	2	1520	936	1855	1842	2021	1122	
15.4	3	1542	681	1869	1851	1997	1137	
	4	1549	813	1903	1903	2039	1130	
15.6	5	1559	800	1889	1876	2012	1122	
15.8	6	1580	561	1891	1880	2028	1123	
	7	1589	566	1562	1532	2038	1130	
	8	1585	592	1890	1884	2032	1139	
	9	1591	650	1690	1700	2039	1139	
	10	1598	660	1688	1677	2011	1119	
	11	1580	749	1929	1932	2018	1118	
	12	1582	936	1924	1922	2020	1129	
	13	1581	1012	1968	1963	2039	1123	
	14	1589	1089	1887	1889	2053	1136	
	15	1581	1120	1937	1932	2010	1129	
16.0	16	1611	619	1360	1338	1980	1112	
	17	1609	678	1905	1891	2000	1113	
	18	1611	688	1729	1718	2019	1125	
	19	1615	793	1781	1780	1994	1118	
	20	1609	850	1611	1602	2006	1126	

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1931phae.proj.122PM

Cl–Dk	Dzl–Dk	Dzl–Dk	Red Dzl	Red Dzl	Mag		Remarks
892	723	—	138	—			
907	391	—	435	—			
935	558	—	596	—			
917	597	—	652	—			
928	608	—	655	—			
937	652	—	696	—			
928	702	—	757	—			
965	722	—	747	—			
934	821	—	880	—			
938	868	—	925	—			
880	477	477	542	542	504	504	
899	738	720	815	802	749	736	
860	732	714	850	830	786	766	
909	773	773	851	851	790	790	
890	767	754	862	846	802	780	
905	768	757	850	837	784	770	
908	432	402	475	445	458	440	
893	751	750	840	839	773	771	
900	551	561	613	624	569	569	
892	569	558	638	626	576	570	
900	811	814	901	904	off curve		
891	795	793	893	890	839	882	
916	845	840	923	917	off curve		
917	761	753	820	821	752	753	
881	808	803	918	913	off curve		
868	248	226	286	260	294	328	
887	792	778	894	879	839	820	
894	604	593	675	662	620	600	
884	671	670	760	758	692	690	
880	485	476	551	541	510	503	

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1931phae.proj.12M

2n. m. — RH 3633 — Dec. 26, 1931

Strip	Star	y	x	Defl.	Defl.	Ct.	Dk.	volt.
		1611	1172	1942	1971	2022	1128	
	1/3	1951	991	1263	—	1983	1112	
	1	1842	647	1539	—	2033	1131	
	2	—	—	1669	—	2020	1126	
	3	—	—	1717	—	2018	1110	
	4	—	—	1709	—	2039	1118	
	5	—	—	1752	—	2043	1137	
	6	—	—	1839	—	2051	1128	
	7	—	—	1858	—	2069	1132	
	8	—	—	1966	—	2043	1130	
	9	—	—	1983	—	2048	1126	5.20

2n. m. — RH 3633 — Dec. 27, 1931.

	1/3	1953	1067	1159	—	1954	1032	5.25
	1	1841	720	1467	—	1988	1036	
	2	—	—	1600	—	1968	1038	
	3	—	—	1665	—	1987	1034	
	4	—	—	1680	—	2000	1034	
	5	—	—	1720	—	1996	1043	
	6	—	—	1792	—	2008	1045	
	7	—	—	1820	—	2022	1048	
	8	—	—	1904	—	2009	1056	
	9	—	—	1956	—	2018	1036	
16.2	✓21	1620	624	1720	1723	1984	1045	
	✓22	1620	689	1493	1488	1973	1042	
	✓23	1621	797	1918	1920	1963	1044	
	✓24	1621	801	1927	1923	1981	1058	
	✓25	1630	901	1644	1628	1964	1052	
	✓26	1620	926	1489	1491	1967	1046	
	✓27	1627	989	1871	1873	1970	1050	
	✓28	1622	1152	1882	1866	1985	1049	

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1931phae.proj.128M

Cl-Dk	Defl-Dk	Defl-Dk	Pid Defl	Pid Defl	Mag.	Remarks
894	814	843	910	942	off curve	
871	151	—	173	—		
902	408	—	453	—		
894	543	—	608	—		
908	607	—	668	—		
921	591	—	643	—		
906	615	—	679	—		
923	711	—	770	—		
937	726	—	776	—		
913	825	—	905	—		
922	857	—	930	—		
922	127	—	138	—		
952	431	—	453	—		
935	567	—	607	—		
953	631	—	662	—		
966	646	—	669	—		
950	677	—	712	—		
963	747	—	775	—		
974	772	—	792	—		
956	851	—	890	—		
962	900	—	938	—		
939	675	678	719	723	6.50, 6.53	
931	451	446	485	480	458, 457	
919	874	876	950	954	907, 912	
923	869	865	940	937	898, 891	
912	592	576	648	632	577, 563	
921	443	445	480	483	457, 460	
920	821	823	893	894	842, 843	
936	833	817	889	873	838, 821	

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1931phae.proj.12RM

Alf - RA 3633 - Aug. 27, 1931.

trip	star	y	b	diff	diff	cl	dk	Zeta
	✓29	1624	1157	1814	1837	2020	1050	
	✓30	1620	1249	1864	1863	2004	1053	
16.4	✓31	1640	699	1750	1737	1978	1058	
	✓32	1640	739	1737	1727	1968	1058	
	✓33	1641	723	1718	1709	1986	1054	
	✓34	1655	801	1729	1724	1956	1065	
	✓35	1640	843	1915	1901	1952	1058	
	✓36	1654	1180	1821	1823	1991	1050	
16.6	✓37	1660	594	1886	1879	1951	1050	
	✓38	1661	596	1903	1910	1972	1058	
	✓39	1658	688	1643	1627	1970	1052	
	✓40	1672	852	1153	1142	1932	1052	
	✓41	1671	1269	1780	1773	1983	1056	
16.8	✓42	1681	578	1847	1856	1952	1055	
	✓43	1697	577	1618	1612	1972	1060	
	✓44	1691	679	1866	1868	1936	1052	
	✓45	1676	939	1872	1883	1950	1059	
	✓46	1690	974	1908	1893	1911	1058	
	✓47	1690	1138	1816	1810	1969	1058	
	✓48	1694	1278	1742	1748	1972	1066	
17.0	✓49	1699	662	1847	1853	1950	1068	
	✓50	1707	600	1837	1832	1958	1060	
	✓51	1702	642	1863	1860	1972	1065	
	✓52	1701	770	1929	1918	1977	1073	
	✓53	1707	1310	1880	1874	1966	1068	
	1	1953	1067	1147	—	1892	1056	525
		1841	720	1465	—	1934	1061	
	2	—	—	1066	—	1937	1049	
	3	—	—	1647	—	1933	1058	
	4	—	—	1657	—	1960	1067	

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1931phae.proj.128M

Cl Dk	Dfl. Dk	Dfl. Dk	Red Dfl	Red Dfl	Mag.	Remarks
970	764	787	787	812	728, 753	
951	811	810	853	852	800, 799	
920	692	679	752	737	690, 670	
910	679	679	747	746	680, 680	
932	464	455	498	488	466, 460	
891	664	659	745	739	678, 669	
894	857	843	958	942	off curve	
941	771	773	820	821	762, 763	
901	836	829	928	920	off, curve	
914	845	852	925	932	off curve	
918	591	575	643	626	573, 559	
880	101	90	115	102	255, 250	
927	724	717	782	775	722, 724	
897	792	801	884	895	831, 849	
912	558	552	613	604	550, 542	
884	814	816	920	921	off curve	
891	813	824	911	922	off curve	
863	850	835	985	967	off curve	
911	758	752	833	826	778, 768	
906	676	677	747	748	678, 679	
882	779	785	884	891	831, 842	
898	777	772	865	860	810, 807	
907	798	795	880	877	828, 824	
904	856	845	947	935	off curve	
903	817	811	905	899	off curve, 858	
836	91	—	109	—		
873	394	—	451	—		
888	517	—	581	—		
875	589	—	674	—		
893	583	—	655	—		

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1931phae.proj.12833M

XP - R H 3633 - Dec. 28, 1931

Strip	Star	y	x. Dipl.	Dipl.	Ce Dk	Volts	
	5	—	—	1670	—	1956	1058
	6	—	—	1737	—	1938	1052
	7	—	—	1761	—	1943	1058
	8	—	—	1838	—	1936	1050
	9	—	—	1880	—	1934	1058
	10	1953	1067	1063	—	1714	952
	1	1841	720	1316	—	1720	963
	2	—	—	1420	—	1725	968
	3	—	—	1496	—	1738	977
	4	—	—	1526	—	1792	973
	5	—	—	1553	—	1791	975
	6	—	—	1632	—	1809	981
	7	—	—	1662	—	1813	978
	8	—	—	1740	—	1827	983
	9	—	—	1782	—	1837	992
17.2	✓54	1722	598	1636	1628	1802	987
	✓55	1738	646	1700	1736	1807	992
	✓56	1720	653	1713	1704	1793	994
	✓57	1719	831	1711	1714	1807	992
	✓58	1737	832	1738	1741	1805	993
	✓59	1730	1249	1682	1672	1823	996
	✓60	1727	1363	1760	1763	1806	997
17.4	✓61	1741	697	1721	1716	1812	1001
	✓62	1746	1168	1666	1656	1822	997
	✓63	1747	1321	1604	1612	1820	1007
17.6	✓64	1768	568	1343	1352	1827	1008
	✓65	1759	592	1352	1398	1822	1010
	✓66	1709	632	1652	1646	1836	1008
	✓67	1767	709	1632	1641	1843	1003
	✓68	1779	719	1678	1674	1840	1010

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1931phae.proj.128PM

Cl-Dk	Defl-Dk	Defl-Dk	Ped Defl	Ped Defl	Mag.	Remarks
875	617	—	705	—		
886	685	—	773	—		
887	705	—	795	—		
886	788	—	890	—		
876	822	—	936	—		
762	111	—	146	—		
757	353	—	465	—		
757	462	—	608	—		
761	519	—	681	—		
819	553	—	675	—		
816	578	—	708	—		
828	651	—	785	—		
835	684	—	818	—		
844	757	—	897	—		
845	790	—	935	—		
815	649	641	795	786	725	712
815	758	744	930	910	879	851
799	719	710	899	888	838	823
815	719	722	881	885	820	821
812	745	748	918	922	860	864
830	689	679	831	818	762	748
809	763	766	942	949	895	899
811	720	715	887	881	823	819
825	669	659	810	798	738	722
823	597	605	726	735	648	657
819	335	344	408	420	400	408
812	342	328	422	404	410	401
828	644	638	775	770	701	697
840	629	638	749	760	670	684
830	668	664	805	800	733	727

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1931phae.proj.12830

2 Jupiter RV 3633 – Dec. 28, 1931

Strip	Star	y	x	dypp	dypp	cc	dx	Volts
	69	1958	912	1708	1696	1846	1022	
	70	1764	939	1783	1791	1843	1017	
	71	1760	975	1763	1764	1853	1012	
17.8	72	1791	473	1765	1772	1857	1022	
	73	1780	718	1696	1696	1849	1016	
	74	1798	711	1648	1653	1867	1024	
	75	1777	827	1741	1724	1854	1018	
18.0	76	1801	526	1812	1808	1853	1024	
	77	1797	711	1663	1664	1871	1034	
	78	1810	800	1553	1560	1882	1024	
	79	1800	1128	1762	1761	1878	1019	
18.2	80	1832	461	1756	1746	1859	1026	
	81	1832	595	1773	1772	1876	1028	
	82	1828	659	1623	1623	1864	1030	
18.4	83	1849	539	1632	1648	1867	1028	
	84	1849	829	1734	1741	1863	1031	
	85	1840	1106	1842	1845	1883	1029	
	86	1853	1480	1722	1724	1882	1031	
18.6	87	1871	863	1782	1790	1865	1032	
	88	1860	879	1695	1702	1898	1027	
	89	1878	908	1783	1792	1877	1032	
	90	1880	1001	1716	1728	1874	1027	
	91	1870	1013	1843	1843	1878	1042	
	92	1860	1095	1832	1812	1877	1040	
18.8	93	1878	514	1589	1579	1880	1037	
	94	1891	609	1712	1712	1872	1043	
	95	1889	632	1764	1767	1879	1040	
	96	1889	1070	1828	1818	1886	1053	
	97	1881	1075	1688	1692	1898	1048	
	98	1881	1128	1710	1712	1898	1047	

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1931phae.proj.128PM

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	Remarks
824	686	674	834	817	770	746
826	766	774	926	935	off curve	
841	751	752	893	894	832	832
835	743	750	890	897	826	833
833	680	680	816	816	743	743
843	624	629	740	745	662	668
836	723	706	863	845	~~795~~ 720	729
829	288	284	348	342	367	364
837	629	630	751	752	675	678
858	529	536	615	625	535	548
859	743	742	865	864	801	800
833	730	720	876	865	810	801
848	745	744	877	875	811	810
834	593	593	710	710	630	630
839	604	620	719	740	640	661
832	709	710	845	855	778	789
854	813	816	951	956	903, off curve	
851	691	693	812	815	741	742
833	750	758	900	910	839	852
871	668	675	766	775	690	700
845	751	760	889	900	825	839
847	689	701	814	826	742	754
836	801	801	957	957	912	912
837	792	772	945	921	898	866
843	546	542	648	642	562	560
829	669	669	805	805	733	734
839	724	727	863	866	800	802
833	775	765	930	920	880	864
850	640	644	753	756	675	680
851	663	665	777	780	703	706

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1931phae.proj.12130M

XGP-C+36 33 — Dec. 28, 1931

Trip	Star	η	ξ	Dyfe	Dyfe ce	Dk	Dk Falt
	✓ 99	1895	1187	1507	1481	1886	1053
19.0	✓ 100	1904	612	1582	1586	1882	1036
	✓ 101	1911	658	1772	1772	1894	1047
	✓ 102	1901	1374	1843	1827	1889	1043
19.2	✓ 103	1921	510	1754	1742	1892	1046
	✓ 104	1931	788	1813	1819	1903	1052
	✓ 105	1937	1059	1792	1792	1886	1049
	✓ 106	1921	1068	1789	1778	1886	1043
19.4	✓ 107	1942	543	1811	1813	1891	1041
	✓ 108	1948	868	1832	1832	1897	1046
19.6	✓ 109	1958	983	1804	1817	1883	1048
	✓ 110	1963	442	1699	1698	1893	1050
	✓ 111	1969	481	1836	1831	1892	1052
	✓ 112	1969	692	1848	1849	1892	1049
	✓ 113	1970	866	1720	1717	1906	1056
	✓ 114	1958	1261	1634	1636	1904	1062
19.8	✓ 115	1989	497	1760	1748	1907	1060
	✓ 116	1979	608	1751	1749	1916	1061
	✓ 117	1979	729	1711	1722	1913	1063
	✓ 118	1981	847	1693	1687	1923	1068
	✓ 119	1990	845	1760	1750	1897	1064
	M	1953	1067	1186	—	1886	1056
	1	1841	720	1448	—	1898	1058
	2	—	—	1558	—	1878	1062
	3	—	—	1620	—	1894	1063
	4	—	—	1690	—	1903	1063
	5	—	—	1661	—	1900	1066
	6	—	—	1723	—	1908	1066
	7	—	—	1744	—	1909	1070
	8	—	—	1818	—	1911	1072
	9	—	—	1857	—	1907	1063

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1931phae.proj.1200M

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	Remarks
833	454	428	545	515	486 466	
846	546	550	646	650	562 568	
847	725	726	855	856	790 791	
846	800	784	945	925	off curve	
846	708	696	836	824	768 754	
851	761	767	895	901	832 842	
837	743	743	886	886	821 821	
843	746	735	885	871	820 805	
850	770	772	905	906	850 off curve	
851	786	786	925	925	off curve	
835	756	769	906	920	off curve	
843	649	648	770	770	697 697	
840	781	779	930	926	off curve	
843	799	800	949	950	off curve	
850	664	661	780	777	708 702	
842	572	574	680	681	598 598	
847	700	688	825	824	755 754	
855	690	688	806	805	734 734	
850	648	659	763	775	690 700	
855	625	619	730	725	652 648	
873	696	686	797	786	721 710	
830	130	—	157	—		
840	390	—	465	—		
816	496	—	607	—		
831	557	—	670	—		
840	567	—	675	—		
834	595	—	715	—		
842	657	—	780	—		
839	674	—	803	—		
839	746	—	890	—		
844	794	—	940	—		

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1931phae.proj.128.M

Ngc - RA 3639 - Dec. 29, 1931.

Strip	Star	y	x	dyell	dyell	cc	dx	Volts
	1A	1953	1067	1193	—	1843	981	520
	1	1841	720	1420	—	1874	968	
	2	—	—	1553	—	1859	974	
	3	—	—	1618	—	1868	983	
	4	—	—	1623	—	1890	983	
	5	—	—	1662	—	1889	983	
	6	—	—	1722	—	1896	988	
	7	—	—	1744	—	1898	984	
	8	—	—	1814	—	1903	997	
	9	—	—	1858	—	1912	987	
20.0	✓120	1999	613	1878	1868	1906	992	
	✓121	2004	750	1866	1870	1909	983	
	✓122	2005	1276	1852	1845	1917	1000	
	✓123	1999	1490	1661	1641	1909	990	
20.2	✓124	2002	1264	1856	1843	1913	988	
20.4	✓125	2049	450	1483	1458	1912	992	
	✓126	2005	697	1746	1761	1907	981	
	✓127	2058	901	1539	1527	1892	982	
	✓128	2050	917	1857	1853	1909	994	
	✓129	2006	1004	1866	1866	1917	994	
20.6	✓136	2070	417	1832	1813	1916	998	
	✓131	2069	669	1789	1741	1908	999	
	✓132	2072	683	1852	1853	1916	1004	
	✓133	2069	692	1884	1879	1928	998	
20.8	✓134	2090	499	1862	1860	1917	993	
	✓135	2089	541	1686	1668	1907	982	
	✓136	2081	583	1563	1526	1906	988	
	✓137	2081	661	1863	1866	1907	997	
	✓138	2081	727	1828	1833	1906	993	
	✓139	2073	340	1808	1804	1912	996	

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1931phae.proj.128M

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	mag.	Remarks
862	152	—	176	—		
906	452	—	498	—		
885	579	—	654	—		
885	635	—	716	—		
907	640	—	705	—		
906	679	—	749	—		
908	734	—	805	—		
914	760	—	830	—		
906	817	—	901	—		
925	871	—	941	—		
911	886	876	974	971		off curve
926	883	887	953	957	910,	916
917	852	845	929	920	871,	860
919	671	651	730	709	618,	591
925	868	855	938	925	886,	868
920	491	466	534	506	463,	446
926	765	780	825	842	733,	755
910	557	545	613	598	511,	499
915	863	859	941	938	892,	888
923	872	872	945	945	899	899
918	834	815	906	886	841	811
909	740	742	815	815	720	720
912	848	849	930	931	879	873
930	886	881	955	949	911,	900
924	869	867	941	940	891,	890
925	704	686	760	742	651,	632
918	575	568	625	618	518,	514
910	866	869	952	954	907,	911
913	835	840	915	920	854,	860
916	812	808	885	881	812,	810

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1931phae.proj.12833

HP - RH3633 - Dec. 29, 1931.

Hour	Star	y	x	Hyd Upper	Hyd Lower	Ca Upper	Ca Lower
	140	2087	1406	1804	1832	1923	1006
21.0	141	2100	497	1487	1466	1920	994
	142	2100	543	1720	1723	1922	1006
	143	2100	581	1843	1847	1913	1014
	144	2095	828	1823	1822	1913	1005
21.2	145	2111	488	1846	1843	1947	1020
	146	2132	597	1863	1866	1933	1028
	147	2128	644	1777	1772	1938	1020
	148	2132	857	1797	1808	1939	1027
	149	2132	929	1852	1828	1932	1023
	150	2137	1079	1869	1878	1947	1023
	151	2120	1124	1701	1707	1933	1022
	152	2130	1457	1726	1717	1929	1022
21.4	153	2140	477	1553	1560	1957	1031
	154	2157	503	1480	1478	1954	1037
	155	2151	600	1778	1767	1973	1036
	156	2140	681	1601	1598	1957	1039
	157	2141	763	1916	1923	1963	1038
	158	2141	769	1776	1738	1973	1037
	159	2150	858	1856	1860	1960	1048
	160	2150	1031	1852	1841	1969	1038
	161	2150	1283	1787	1776	1970	1052
21.6	162	2159	1430	1782	1772	1954	1062
	163	2164	1457	1847	1840	1982	1054
21.8	164	2189	409	1910	1903	1976	1046
	165	2163	627	1528	1508	1908	1048
	166	2169	843	1914	1918	1983	1053
	167	2180	1145	1818	1813	1967	1048
22.0	168	2210	465	1880	1885	1973	1046
	169	2202	626	1347	1347	1931	1051

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1931phae.proj.1284M

A.-Dec.	Deff. Db	Deff. Dr.	Red. Deff.	Red. Diff	Magn.	Remarks
917	798	826	870	901	793	833
936	493	472	525	504	457	445
916	714	717	779	782	678	681
899	829	833	921	925	862	869
908	818	817	900	900	831	831
927	826	823	891	887	822	815
905	835	838	923	925	864,	866
918	757	752	825	820	782,	725
912	770	781	845	857	760	775
909	829	815	911	895	850	828
924	846	855	916	925	852	866
911	679	685	745	750	638,	641
907	704	695	775	765	671	661
926	522	529	562	570	477	482
917	443	441	483	481	434	433
937	742	731	790	780	691	679
918	562	559	612	609	510	507
925	878	886	950	955	904	912
936	739	701	789	749	687	640
912	808	812	885	890	812	819
931	814	803	874	863	800	783
918	735	724	800	786	705	683
892	420	410	470	460	426	419
928	793	786	853	848	770	761
930	864	857	927	923	869	862
910	480	460	527	505	458	446
930	861	865	925	930	869	873
919	770	765	837	833	749	743
927	894	839	898	905	880	841
880	296	296	336	336	350	350

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1931phae.proj.12:3M

NP-DL 3693 - Dec. 29, 1931.

Trip	Star	Y	X	Dyfe	Dyfe	Cc	Dk	Volts
	170	2207	687	1896	1896	1967	1046	
	171	2210	1094	1901	1892	1969	1058	
	172	2200	1251	1832	1831	1963	1052	
	173	2204	1268	1929	1824	1969	1057	
22.2	174	2220	394	1748	1743	1958	1047	
22.4	175	2251	476	1788	1808	1967	1057	
	176	2242	608	1822	1809	1960	1036	
	177	2250	648	1846	1847	1953	1043	
	178	2252	759	1750	1758	1952	1047	
	179	2240	821	1914	1916	1954	1043	
	180	2240	827	1693	1708	1968	1042	
	181	2238	920	1866	1880	1970	1042	
	182	2240	1277	1863	1841	1956	1047	
	183	2248	1363	1876	1874	1954	1043	
	184	2250	1371	1913	1903	1957	1053	
	185	2247	1444	1904	1909	1972	1064	
22.6	186	2268	429	1907	1913	1988	1056	
	187	2265	592	1892	1887	1963	1050	
	188	2270	658	1901	1916	1973	1057	
	189	2268	668	1524	1507	1966	1062	
	190	2267	1018	1708	1690	1969	1053	
	1	1953	1067	1196	—	1926	1058	
	1	1841	720	1509	—	1956	1056	
	2	—	—	1632	—	1958	1062	
	3	—	—	1690	—	1958	1049	
	4	—	—	1701	—	1974	1056	
	5	—	—	1716	—	1956	1056	5 10
	6	—	—	1789	—	1958	1058	
	7	—	—	1804	—	1967	1052	
	8	—	—	1879	—	1964	1052	
	9	—	—	1923	—	1967	1052	

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1931phae.proj.12843M

Q.-Dk.	Defl.-Dk	Defl.-Dk	Red. Defl	Red. Defl.	Magn.	Remarks
921	850	847	924	921	869 862	
916	848	839	927	917	868 856	
931	780	779	837	836	748 748	
912	872	867	952	948	910 900	
911	701	696	767	762	661 660	
910	731	751	804	825	708 732	
924	786	773	850	835	766 748	
910	353	334	388	366	380 367	
905	703	711	775	785	670 682	
911	871	873	956	959	912 off curve	
926	651	666	702	717	589 601	
928	824	838	886	903	814 841	
909	816	794	897	873	829 796	
911	833	831	914	911	off curve	
904	860	850	952	941	off curve	
908	840	845	924	930	off curve	
932	851	847	913	909	off curve 849	
913	842	887	922	916	off curve	
916	844	859	922	938	off curve	
904	462	445	510	492	448 440	
916	655	637	715	697	601 579	
868	138	—	159	—		
900	453	—	505	—		
896	570	—	637	—		
909	641	—	705	—		
918	645	—	702	—		
900	660	—	733	—		
906	736	—	812	—		
915	752	—	822	—		
912	827	—	907	—		
915	871	—	952	—		

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1931phae.proj.12:3M

m.m. — RH 3633 — Dec. 30, 1931

	Strip	Star	y	x	Defl.	Defl.	Cl.	Dk	Volts
		1s	1953	1067	1055	—	1671	916	5.0
		1	1841	720	1310	—	1682	920	
		2	—	—	1429	—	1682	931	
		3	—	—	1478	—	1700	936	
		4	—	—	1492	—	1717	947	
		5	—	—	1522	—	1719	939	
		6	—	—	1658	—	1829	960	
		7	—	—	1687	—	1839	959	
		8	—	—	1749	—	1822	950	
		9	—	—	1792	—	1842	964	
22.8	191		2299	751	1763	1765	1876	978	
	192		2283	912	1700	1689	1863	982	
	193		2285	1234	1782	1789	1869	981	
23.0	194		2278	1488	1802	1801	1851	992	
	195		2317	668	1783	1777	1849	990	
hammering accounts for sudden drop	196		2300	751	1667	1672	1760	989	
	197		2300	861	1420	1401	1757	996	
	198		2305	1079	1712	1711	1750	993	
	199		2310	1142	1687	1677	1757	986	
	200		2309	1187	1672	1665	1752	992	
	201		2307	1222	1553	1548	1750	989	
	202		2308	1286	1592	1589	1744	998	
23.2	203		2356	509	1559	1570	1748	1000	
	204		2325	516	1629	1620	1750	1003	
	205		2320	538	1700	1691	1737	1009	
	206		2322	732	1571	1565	1752	1008	
	207		2329	1056	1478	1480	1752	1008	
	208'		2328	1223	1648	1642	1743	1009	
	209		2324	1381	1601	1606	1752	1005	
		1s	1953	1067	1173	—	1747	1009	

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1931phae.proj.12843M

cl - Dk	Dyl-Dk	Dyl-Dk	Red Dyl	Red Dyl	mag	Remarks
755	139	—	184	—		
762	390	—	512	—		
751	498	—	664	—		
764	542	—	709	—		
770	545	—	708	—		
780	583	—	748	—		
869	698	—	804	—		
880	728	—	826	—		
872	797	—	913			
878	828	—	943	—		
898	785	787	873	875	775, 776	
881	718	707	815	802	702, 689	
888	801	808	902	910	814, 830	
859	810	809	943	942	884 883	
859	793	787	924	918	852, 840	
771	678	683	878	884	771, 790	
761	424	405	556	532	467, 451	
757	719	718	950	949	901, 900	
771	701	691	909	896	828 807	
760	680	673	896	885	804, 791	
761	564	559	742	735	620, 612	
746	594	591	797	792	680, 675	
748	559	570	747	762	620, 641	
747	626	617	839	826	730, 712	
728	691	682	949	936	900, 871	
744	563	557	757	749	632, 624	
744	470	472	632	635	521, 524	
734	639	633	870	862	771, 760	
747	596	601	800	806	681, 690	
738	164	—	223	—		

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1931phae.proj.1283M

R# 3633

Strip	Stm	y	x	Deff.	Deff.	Q.	Dk.	volt.
	1	1841	720	1397	—	1757	1010	
	2	—	—	1522	—	1767	1010	
	3	—	—	1549	—	1781	1010	
	4	—	—	1579	—	1838	1020	
	5	—	—	1630	—	1838	1009	
	6	—	—	1673	—	1810	1013	
	7	—	—	1688	—	1818	1019	
	8	—	—	1761	—	1822	1012	
	9	—	—	1788	—	1829	1017	5.0

Edge- R# 3633- Dec. 30, 1931. v 5.5

	IX	1953	1067	1132	—	1821	996
	1	1841	720	1424	—	1844	1007
	2	—	—	1543	—	1836	991
	3	—	—	1587	—	1841	1002
	4	—	—	1604	—	1866	998
	5	—	—	1632	—	1846	997
	6	—	—	1692	—	1848	998
	7	—	—	1704	—	1856	998
	8	—	—	1794	—	1866	1000
	9	—	—	1818	—	1864	997
23.4	210	2339	510	1666	1678	1876	1012
	211	2340	511	1850	1825	1886	1003
	212	2340	628	1745	1794	1873	1017
	213	2341	1258	1823	1827	1878	1018
	214	2360	1424	1857	1847	1877	1026
	215	2350	1436	1847	1821	1888	1016
23.6	216	2363	497	1824	1820	1893	1021
	217	2362	979	1682	1704	1896	1022
	218	2370	1063	1611	1600	1888	1027
	219	2370	1027	1807	1793	1887	1016

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1931phae.proj.12833M

Cl-Dk	Defl-Dk	Defl-Dk	Red Defl	Red Defl	Mag.	Remarks
747	387	—	517	—		
757	512	—	676	—		
771	539	—	700	—		
818	559	—	683	—		
829	621	—	750	—		
797	660	—	829	—		
799	669	—	836	—		
810	749	—	925	—		
812	771	—	951	—		
835	136	—	162	—		
837	417	—	497	—		
845	552	—	652	—		
839	585	—	697	—		
868	606	—	700	—		
849	635	—	747	—		
850	694	—	816	—		
858	706	—	822	—		
866	794	—	917	—		
867	821	—	947	—		
864	654	666	757	771	640	660
883	847	825	959	933	off curve	891
856	728	717	850	837	763	744
860	805	809	937	941	897	902
854	834	824	975	963	off curve	
872	831	805	953	922	off curve	871
872	803	799	921	916	870	860
874	660	682	755	780	639,	670
861	584	573	679	665	555,	543
871	791	777	908	893	850,	829

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1931phae.proj.12633M

2 Jp - R.A. 21 33 - Dec. 20, 1931.

Mag.	Star	y	x	dyII	dyII	cc	dk	Plts
	220	2370	1234	1720	1731	1892	1018	
	221	2365	1242	1749	1753	1886	1018	
	222	2372	1273	1769	1766	1888	1026	
	223	2370	1309	1640	1634	1889	1026	
	224	2360	1282	1807	1798	1877	1026	
	225	2352	1348	1824	1820	1872	1027	
	226	2362	1367	1820	1827	1878	1018	
	227	2359	1387	1828	1833	1881	1028	
	228	2364	1425	1788	1783	1883	1027	
23.8	229	2390	599	1517	1627	1873	1026	
	230	2377	798	1734	1723	1877	1020	
	231	2388	1215	1760	1767	1886	1027	
	232	2391	1363	1743	1734	1862	1018	
	233	2381	1402	1757	1751	1869	1024	
24.0	234	2400	590	1677	1668	1892	1023	
24.2	235	2428	1275	1603	1588	1874	1028	
	236	2421	1380	1738	1742	1874	1018	
24.4	237	2434	1116	1774	1773	1879	1026	
	238	2452	1212	1820	1820	1873	1024	
	239	2442	1292	1804	1812	1866	1024	
	240	2439	1397	1776	1780	1848	1047	
24.6	241	2470	776	1708	1688	1881	1031	
	242	2473	922	1570	1556	1863	1023	
	243	2471	1302	1522	1502	1877	1038	
24.8	244	2497	1217	1666	1654	1862	1026	
	245	2490	1252	1781	1778	1854	1023	
25.2	246	2520	881	1764	1793	1837	1005	
25.4	247	2552	1062	1688	1682	1833	1015	
Plate		1953	1067	1201	—	1821	1029	
finished		1841	720	1458	—	1857	1023	

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1931phae.proj.12833

Cl-Dk	Defl-Dk	Defl-Dk	RedDefl	RedDefl	Mag.	Remarks
874	702	713	803	815	702, 716	
868	731	735	842	846	752, 755	
865	746	743	862	859	780, 772	
863	614	608	710	704	587, 580	
851	781	772	917	906	860, 848	
845	797	793	943	939	909, 899	
862	814	811	945	941	909, 902	
853	800	805	939	945	899, 909	
855	761	756	890	885	821, 815	
850	494	604	582	710	481 587	
857	714	703	832	821	740, 723	
859	733	740	853	862	770, 781	
844	725	716	858	848	775, 760	
845	733	727	868	860	785, 775	
869	654	645	753	743	770, 756	
846	575	560	680	662	557, 541	
856	720	724	843	849	752, 759	
853	748	747	878	875	801, 800	
849	796	796	938	938	898, 898	
842	780	788	928	937	880, 898	
801	729	733	909	914	850, 860	
850	677	657	798	775	693, 664	
840	547	533	651	635	532, 520	
844	489	469	579	556	478, 464	
836	640	628	765	750	650, 631	
831	758	755	913	910	860, 852	
832	759	788	913	949	860, 916	
820	675	669	824	816	729, 716	
792	172	—	217	—		
824	425	—	516	—		

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1931phae.proj.121SM

RH 3634

Trig	Star	Y	X	Diff	Diff	cc	Dk	Dclt
	2	—	—	1572	—	1853	1033	510
	3	—	—	1613	—	1856	1032	
	4	—	—	1633	—	1867	1028	
	5	—	—	1650	—	1856	1042	
	6	—	—	1711	—	1869	1037	
	7	—	—	1723	—	1862	1027	
	8	—	—	1782	—	1859	1022	
	9	—	—	1802	—	1858	1020	
Con	from	Rk.	83	9	194 -	31 gp.	RH 3634 -	Jan 3, 1932.
	10	1942	1006	1230	—	1760	1056	520
	1	1851	654	1000	—	1793	1059	
	2	—	—	1584	—	1775	1067	
	3	—	—	1603	—	1807	1064	
	4	—	—	1657	—	1817	1079	
	5	—	—	1683	—	1817	1064	
	6	—	—	1717	—	1821	1082	
	7	—	—	1734	—	1801	1068	
	8	—	—	1760	—	1812	1064	
	9	—	—	1777	—	1812	1076	
21.2	129	2132	540	1793	1800	1833	1068	
	130	2128	589	1727	1733	1896	1072	
	131	2131	800	1760	1753	1827	1068	
	132	2130	873	1770	1767	1895	1073	
	133	2130	1022	1800	1803	1837	1072	
	134	2121	1402	1739	1743	1849	1074	
21.4	135	2140	420	1627	1634	1858	1077	
	136	2151	546	1714	1714	1824	1078	
	137	2140	615	1616	1627	1827	1074	
	138	2148	709	1802	1809	1849	1073	
	139	2140	713	1778	1788	1902	1073	

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1931phae.proj.129M

α-Dk	Defl Dk	Defl-Dk	Red Defl	Red Defl	mag.	Remarks
820	539	—	657	—		
824	581	—	705	—		
839	605	—	721	—		
814	608	—	749	—		
832	674	—	811	—		
835	696	—	833	—		
837	760	—	909	—		
838	782	—	932	—		
704	174	—	247	—		
734	441	—	601	—		
708	517	—	730	—		
743	539	—	726	—		
738	578	—	783	—		
753	619	—	824	—		
739	635	—	863	—		
733	666	—	907	—		
748	696	—	930	—		
736	701	—	953	—		
765	725	732	948	957	860, 888	
764	655	661	858	866	708, 716	
759	692	685	911	902	791, 772	
762	697	694	915	911	796, 790	
765	728	731	952	955	872, 881	
775	665	669	858	863	702, 710	
781	550	557	705	714	522, 532	
746	636	636	852	852	700 700	
753	542	553	720	735	537, 552	
776	729	736	940	949	845, 860	
829	705	715	853	863	700, 710	

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1931phae.proj.128.2M

Dyf - R.A. 3634 - Jan. 3, 1932.

Trip	Star	y	x	Dyf	Dyf	Cc	Dk	Volts
	140	2147	802	1838	1840	1902	1079	
	141	2143	974	1872	1866	1948	1095	
	142	2141	1228	1832	1842	1950	1094	
	143	2150	1374	1598	160	1954	1089	
21.6	144	2158	447	1650	1640	1950	1086	
	145	2171	1088	1863	1866	1961	1088	
	146	2156	1401	1886	1896	1976	1092	
21.8	147	2190	354	1952	1947	1992	1077	
	148	2192	572	1671	1677	1996	1085	
	149	2177	788	1948	1958	1982	1096	
	150	2195	1196	1897	1896	1992	1094	
22.0	151	2211	411	1957	1961	2017	1087	
	152	2202	671	1527	1529	1978	1088	
	153	2204	631	1926	1926	1976	1082	
	154	2204	1039	1929	1923	1973	1082	
	155	2200	1213	1934	1940	1968	1096	
22.2	156	2223	338	1798	1806	1981	1085	
	157	2238	770	1791	1788	1963	1078	
	158	2233	864	1879	1897	1960	1088	
	159	2236	1222	1884	1880	1953	1064	
22.4	160	2252	421	1862	1874	1973	1072	
	161	2243	653	1882	1867	1962	1080	
	162	2250	691	1542	1580	1957	1082	
	163	2257	708	1823	1833	1952	1074	
	164	2240	766	1922	1920	1961	1078	
	165	2240	1308	1925	1925	1966	1088	
	166	2241	1317	1910	1920	1956	1072	
	167	2238	1388	1905	1897	1954	1084	
22.6	168	2270	373	1928	1928	1970	1112	
	169	2265	538	1928	1926	1983	1102	

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1934phae.proj.128M

Ll.-Dk.	Diff.-Dk.	Diff.-Dk.	Red. Diff.	Red. Diff.	Magn.	Remarks
823	759	761	920	924	802, 815	
853	777	771	911	904	791, 780	
866	738	748	863	875	712, 729	
865	509	511	589	591	421, 424	
864	564	564	654	643	473, 464	
873	775	778	888	891	748, 752	
881	794	804	902	913	770, 792	
915	875	870	956	951	880, 871	
911	586	592	644	650	465, 471	
886	852	862	963	973	904, 930	
899	803	802	894	892	757, 753	
930	870	874	935	940	888, 845	
890	439	441	494	496	473, 474	
894	854	854	955	955	881, 881	
891	847	841	952	946	872, 856	
872	838	844	963	970	903, 918	
896	713	721	796	804	620, 631	
885	713	710	806	802	632, 629	
872	791	809	909	930	780, 825	
889	820	816	923	928	811, 818	
901	790	802	878	890	730, 750	
882	802	787	909	891	781, 740	
876	460	498	526	570	388, 412	
878	749	759	854	865	700, 712	
883	844	842	955	954	881, 881	
878	837	837	952	952	872, 872	
884	838	848	950	961	866, 899	
870	821	813	945	935	854, 832	
858	816	816	951	951	872, 872	
881	826	834	937	946	835, 853	

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1931phae.proj.128M

Wp – D# 3634 Jan. 3, 1932

Exp	Star	Y	X	Δeff	Δyff	Ce	Dk	Notes
	170	2270	602	1927	1940	1978	1103	
	171	2268	612	1666	1662	1968	1112	
	172	2268	882	1913	1918	1957	1108	
	173	2271	927	1910	1913	1953	1112	
	174	2261	964	1760	1752	1962	1110	
22.8	175	2301	697	1913	1907	1964	1100	
	176	2299	808	1714	1720	1961	1110	
	177	2280	858	1851	1852	1967	1111	
	178	2279	1180	1920	1923	1983	1117	
23.0	179	2307	1088	1913	1912	1967	1116	
	180	2306	1131	1908	1923	1973	1109	
	181	2301	1168	1828	1830	1978	1117	
	182	2300	1231	1852	1855	1978	1122	
23.2	183	2326	461	1908	1896	1987	1115	
	184	2320	683	1959	1958	1992	1124	
	185	2313	612	1902	1947	1990	1131	
	186	2320	679	1829	1841	1983	1124	
	187	2326	1001	1749	1729	1981	1120	
	188	2321	1170	1894	1891	1989	1128	
	189	2319	1327	1860	1850	1982	1117	
	1s	1942	1006	1304	—	1977	1120	
	1	1851	654	1650	—	1977	1124	570
	2	—	—	1737	—	1959	1120	
	3	—	—	1764	—	1969	1122	
	4	—	—	1782	—	1982	1118	
	5	—	—	1822	—	1952	1111	
	6	—	—	1847	—	1973	1113	
	7	—	—	1884	—	1981	1126	
	8	—	—	1927	—	1983	1124	
	9	—	—	1950	—	1990	1127	

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1934phae.proj.128M

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Red. Defl.	Red. Defl.	Magn.	Remarks
875	824	837	940	956	845 881	
856	554	550	645	642	469 465	
849	805	810	947	954	860 880	
841	798	801	950	953	866, 872	
852	650	642	764	754	5.85, 573	
864	813	807	940	935	845, 831	
851	604	610	709	716	526, 531	
856	740	741	865	865	712, 712	
866	803	806	925	930	812 827	
851	797	796	935	935	8.32, 8.32	
864	799	814	925	940	812, 845	
861	711	713	825	827	657 658	
856	730	733	852	855	7.00, 7.01	
872	793	781	910	896	7.86, 7.59	
868	835	834	960	959	8.96, 8.90	
859	821	816	955	950	887, 870	
859	715	717	833	835	6.70, 6.70	
861	629	609	730	706	5.47, 524	
861	766	763	890	885	7.51, 747	
865	743	733	857	845	718, 688	
857	184	—	215	—		
853	526	—	617	—		
839	617	—	735	—		
847	642	—	756	—		
864	664	—	767	—		
841	711	—	845	—		
860	734	—	853	—		
855	758	—	886	—		
859	803	—	935	—		
863	823	—	954	—		

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1931phae.proj.128M

2 P - R N 3634 - Jan. 4, 1932.

Trip	Star	Y	Δ	Δδ₁	Δδ₂	Cc	Dk	Delta
	M	1942	1006	1218	—	1673	1063	520
	1	1851	654	1739	—	1723	1064	
	2	—	—	1516	—	1706	1058	
	3	—	—	1554	—	1726	1076	
	4	—	—	1575	—	1736	1066	
	5	—	—	1618	—	1750	1066	
	6	—	—	1647	—	1752	1072	
	7	—	—	1663	—	1742	1076	
	8	—	—	1700	—	1748	1066	
	9	—	—	1712	—	1748	1072	
23.4	190	2329	457	1633	1651	1767	1073	
	191	2340	458	1711	1726	1752	1078	
	192	2340	572	1678	1677	1748	1078	
	193	2352	1277	1709	1727	1772	1088	
	194	2345	1291	1732	1728	1768	1085	
	195	2350	1332	1738	1738	1768	1087	
	196	2341	1339	1762	1766	1782	1093	
	197	2335	1371	1722	1727	1787	1083	
	198	2340	1378	1745	1747	1773	1082	
23.6	199	2366	442	1750	1751	1788	1092	
	200	2360	924	1666	1677	1803	1093	
	201	2368	949	1663	1608	1785	1093	
	202	2367	973	1732	1748	1803	1093	
	203	2363	1180	1713	1711	1812	1087	
	204	2359	1189	1736	1732	1816	1090	
	205	2366	1219	1741	1749	1817	1092	
	206	2361	1254	1647	1659	1828	1083	
	207	2372	1349	1744	1750	1822	1084	
23.8	208	2390	578	1533	1570	1787	1087	
	209	2381	747	1706	1679	1786	1083	

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1934phae.proj.1292M

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Red. Defl.	Red. Defl.	Images	Remarks
610	150	—	246	—		
659	375	—	568	—		
648	458	—	708	—		
650	478	—	736	—		
670	509	—	760	—		
684	552	—	805	—		
680	575	—	845	—		
666	587	—	881	—		
682	634	—	928	—		
676	640	—	945	—		
694	560	578	806	834	645, 683	
674	633	648	938	960	858, 910	
670	600	599	895	894	779, 778	
684	621	639	906	934	799, 852	
683	647	643	949	942	875, 870	
681	651	651	955	955	900, 900	
689	669	673	970	975	920, 940	
704	639	644	907	915	800, 811	
691	663	665	959	963	900, 918	
696	658	659	945	946	875, 875	
710	573	584	806	821	641, 662	
692	510	515	737	745	569, 575	
710	639	655	899	921	781, 829	
725	616	624	850	860	706, 720	
726	646	642	890	884	770, 763	
725	649	657	895	906	775, 800	
745	564	576	756	774	587, 607	
738	660	666	894	902	776, 790	
700	446	483	637	689	487, 524	
703	623	596	885	850	761, 706	

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1931phae.proj.12853

DP - C # 3634 - Jan. 4, 1902.

Strip	Star	y	x	Decl	Decl	cc	Dk	Notes
	210	2390	1117	1749	1749	1775	1082	
	211	2380	1160	1712	1706	1793	1086	
	212	2386	1308	1707	1711	1782	1098	
24.0	213	2400	537	1691	1697	1802	1087	
	214	2403	705	1762	1766	1796	1093	
	215	2398	992	1760	1754	1777	1088	
	216	2413	1277	1697	1692	1782	1088	
24.2	217	2430	1060	1706	1708	1767	1085	
	218	2420	1221	1699	1607	1766	1094	
	219	2437	1238	1722	1730	1752	1082	
24.4	220	2449	1159	1720	1730	1766	1103	
24.6	221	2469	723	1646	1648	1753	1087	
	222	2470	869	1562	1572	1753	1083	
	223	2483	1269	1523	1523	1759	1084	
24.8	224	2490	1164	1620	1609	1758	1084	
	225	2482	1200	1700	1693	1757	1083	
25.2	226	2519	828	1713	1723	1757	1083	
25.4	227	2540	989	1771	1706	1788	1080	
	228	2550	1010	1701	1715	1800	1082	
	10	1942	1006	1278	—	1822	1088	510
Plate	1	1851	654	1546	—	1853	1088	
finished	2	—	—	1627	—	1851	1103	
	3	—	—	1666	—	1876	1096	
	4	—	—	1700	—	1883	1100	
	5	—	—	1734	—	1872	1100	
	6	—	—	1773	—	1888	1092	
	7	—	—	1786	—	1884	1093	
	8	—	—	1827	—	1892	1089	
	9	—	—	1858	—	1886	1088	

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1931phae.proj.1263M

Cl.-Dk.	Defl.-Dk.	Defl.-Dk.	Red. Defl.	Red. Defl.	Magn.	Remarks
693	667	667	965	965	919, 919	
707	626	620	885	876	764, 749	
684	609	613	890	895	770, 778	
715	604	610	845	853	699, 712	
703	694	703	995	1000	ff curve, ff curve	
689	672	666	975	967	940, 921	
694	609	604	877	870	750, 740	
682	621	623	911	914	810, 814	
672	505	513	750	763	582, 595	
670	640	648	955	967	900, 920	
663	617	627	933	947	858, 878	
666	559	561	839	841	688, 692	
670	479	489	715	730	548, 562	
675	439	439	650	650	494, 494	
674	536	525	795	778	630, 609	
674	617	610	915	905	812, 795	
674	630	640	935	950	856, 890	
708	691	676	975	955	940, 900	
718	619	633	860	880	721, 753	
734	190	—	259	—		
765	458	—	600	—		
748	524	—	698	—		
780	570	—	730	—		
783	600	—	766	—		
772	634	—	820	—		
796	681	—	855	—		
791	693	—	875	—		
803	738	—	920	—		
798	770	—	964	—		

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1931phae.proj.128M

P. S. R. – R. H. 3635 – Jan. 4, 1932

Strip	Star	y	x	Diff.	Diff.	Ce.	Obs.	Volts
	1s	1920	975	1092	—	2014	1107	-5.00
	1	1921	611	1108	—	2004	1083	
	2	—	—	1138	—	2006	1100	
	3	—	—	1170	—	2029	1107	
	4	—	—	1217	—	2060	1104	
	5	—	—	1257	—	2018	1109	
	6	—	—	1410	—	2026	1118	
	7	—	—	1433	—	2003	1118	
	8	—	—	1702	—	2036	1122	
	9	—	—	1862	—	2013	1110	
14.2	× 1	1410	815	1846	1857	1998	1120	
14.6	× 2	1460	1035	1909	1898	2001	1127	
14.8	× 3	1475	591	1774	1808	2027	1121	
	× 4	1475	660	1931	1933	2005	1113	
	× 5	1480	930	1838	1849	2022	1110	
15.0	× 6	1491	599	1833	1847	1982	1098	
	× 7	1491	810	1867	1844	1958	1098	
	× 8	1490	845	1817	1803	1963	1096	
15.2	× 9	1521	524	1350	1370	1987	1107	
	× 10	1528	664	1633	1610	1964	1110	
	× 11	1511	1120	1748	1697	1947	1087	
	1s	1920	975	1082	—	1910	1085	
	1	1922	611	1092	—	1923	1081	
	2	—	—	1129	—	1923	1082	
	3	—	—	1141	—	1976	1079	
	4	—	—	1167	—	1943	1080	
	5	—	—	1228	—	1932	1084	
	6	—	—	1357	—	1936	1093	
	7	—	—	1402	—	1927	1090	
	8	—	—	1626	—	1952	1089	
	9	—	—	1816	—	1937	1089	4.92

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1934phae.proj.1202M

α-Dk	Defg-Dk	Red. Defg	Magn.	Remarks
912	-10	—	—	
921	25	27	—	
906	38	42	—	
922	63	68	—	
956	113	118	—	
909	148	163	—	
908	292	322	—	
885	315	356	—	
914	580	635	—	
903	752	833	—	
878	732	832	885 ×	
884	777	880	907 ×	
906	670	740	858 ×	
892	819	919	off curve ×	
912	734	805	876 ×	
884	742	838	888 ×	
860	758	882	907 ×	
867	714	822	882 ×	
880	253	288	705 ×	outside circle
854	513	600	820 ✓	
860	635	740	858 ×	
825	-3	—	—	
842	11	13	—	
841	47	56	—	
847	62	73	—	
863	87	101	—	
848	144	170	—	
843	259	308	—	
837	312	373	—	
863	537	623	—	
848	727	857	—	

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1931phae.proj.128M

Heliacrometer rather unsteady
In m. – RH. 3635 – Jan. 5, 1932

Clock	Star	y	x	Deff.	Deff.	Cl.	Dl.	volt.
	ls	1920	986	1048	—	1838	1040	5.2
	1	1921	622	1046	—	1860	1039	
	2	—	—	1080	—	1828	1043	
	3	—	—	1122	—	1829	1045	
	4	—	—	1130	—	1826	1040	
	5	—	—	1217	—	1829	1039	
	6	—	—	1303	—	1857	1049	
	7	—	—	1338	—	1838	1050	
	8	—	—	1539	—	1852	1052	
	9	—	—	1710	—	1841	1057	
15.4	×12	1557	550	1530	1481	1870	1059	
	↓13	1544	623	1583	1571	1868	1063	
	↓14	1541	769	1449	1422	1859	1062	
	↓15	1548	890	1571	1542	1859	1060	
	×16	1547	1056	1671	1656	1860	1063	
	↓17	1545	1060	1632	1649	1842	1065	
15.6	18	1571	532	1075	1095	1871	1061	
	×19	1561	669	1670	1658	1842	1053	
	↓20	1565	1136	1151	1053	1849	1058	
	↓21	1576	1107	1118	1150	1848	1065	
	ls	1920	986	1056		1842	1065	
	1	1924	622	1068	—	1881	1068	
	2	—	—	1134	—	1848	1070	
	3	—	—	1133	—	1860	1072	
	4	—	—	1143	—	1863	1060	
	5	—	—	1259	—	1869	1060	
	6	—	—	1350	—	1868	1068	
	7	—	—	1391	—	1863	1066	
	8	—	—	1582	—	1865	1069	
	9	—	—	1737	—	1861	1070	

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1934phae.proj:1203M

α.-Dk.	Deff-Dk.	Red. Deff.	Magn.	Remarks
798	8	10	—	
821	6	7	—	
785	37	47	—	
784	77	98	—	
786	90	114	—	
790	173	219	—	
808	254	314	—	
788	288	366	—	
800	487	610	—	
784	653	834	—	
811	447	553	802 ✓	
805	514	637	829 ✓	
797	374	468	766 ✓	
799	496	620	825 ✓	
797	601	755	867 *	
777	575	740	864 ✓	
810	24	29	476 ✓	
789	611	775	873 x	
791	44	55	536 ✓	*
783	69	88	577 ✓	
777	−9	—	—	
813	0	0	—	
778	64	82	—	
788	61	77	—	
803	83	104	—	
809	199	246	—	
800	282	354	—	
797	325	407	—	
796	513	643	—	
791	667	845	—	

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1931phae.proj.128M

Galvanometer quite unsteady at times.

P.S.R. - R.A. 3635 - Jan. 5, 1932

*= Galvanometer very unsteady - varies > 1 division

Trip	Star	y	x	Refl.	Refl.	Cl.	Rk.	Volts
	15	1920	986	1672	—	1843	10.63	5.2
	1	1921	623	1072	—	1860	10.68	
	2	—	—	1107	—	1807	1067	
	3	—	—	1117	—	1793	1065	
	4	—	—	1128	—	1853*	1076*	
	5	—	—	1220	—	1853	1079	
	6	—	—	1342	—	1824	1072	
	7	—	—	1346	—	1799	1070	
	8	—	—	1550	—	1867	1078	
	9	—	—	1717	—	1830	1075	
15.8	×22	1572	989	1772	1768	1841	1088	
	↓23	1581	1006	1362	1366	1832	1078	
	×24	1573	1131	1754	1748	1842	1080	
16.0	×25	1602	463	1750	1750	1866	1080	
	↓26	1593	773	1762	1739	1854	1078	
	↓27	1597	891	1623	1611	1830	1079	
	×28	1593	1000	1749	1743	1849	1082	
	↓29	1602	1009	1362	1333	1824	1070	
	↓30	1600	1185	1501	1455*	1840	1089	
	↓31	1605	1208	1350	1338	1819	1079	
	×32	1609	1247	1660	1668	1844	1080	
15.3 to 15.4	↓33	1538	1133	1214	1199	1842	1085	
	15	1920	986	1084	—	1832	1086	
	1	1921	623	1089	—	1817	1079	
	2	—	—	1116	—	1811	1080	
	3	—	—	1148	—	1827	1070	
	4	—	—	1163	—	1839	1077*	
	5	—	—	1232	—	1839	1083	
	6	—	—	1330	—	1852	1080	
	7	—	—	1387	—	1840	1079	
	8	—	—	1598	—	1849*	1080	
	9	—	—	1730	—	1842	1081	5.2

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1931phae.proj.120M

Cl – Dk	Defl – Dk	Red Defl	Mag.	Remarks
780	9	11	—	
792	4	5	—	
735	40	54	—	
728	52	71	—	
777	52	67	—	
774	141	182	—	
752	270	360	—	
729	276	378	—	
789	472	596	—	
755	642	850	—	
753	682	905	918 ×	
754	286	380	730 ✓	
762	671	880	905 ×	
786	670	850	897 ×	
776	678	874	904 ×	
751	538	717	850 ✓	
767	664	864	900 ×	
754	278	368	726 ✓	
761	389	511	782 ✓	
740	265	358	720 ✓	
764	584	764	865 ×	
757	121	160	629 ✓	
746	−2	—	—	
738	10	13	—	
731	36	49	—	
757	78	103	—	
762	86	113	—	
756	149	197	—	
772	250	324	—	
761	308	405	—	
769	518	675	—	
761	649	853	—	

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1931phae.proj.128M

Dyp-C H 3635- Jan. 5, 1932.

Strip	Star	y	x	Def.	Def.	Cl.	Clk.	Volts
16.2	10	1920	987	1057	—	1797	1058	525
	1	1921	623	1077	—	1842	1061	
	2	—	—	1108	—	1782	1067	
	3	—	—	1127	—	1812	1067	
	4	—	—	1147	—	1817	1072	
	5	—	—	1223	—	1820	1076	
	6	—	—	1321	—	1824	1073	
	7	—	—	1359	—	1798	1088	
	8	—	—	1543	—	1814	1082	
	9	—	—	1668	—	1794	1083	
16.2	34	1620	589	1691	1670	1822	1078	
	35	1631	691	1244	1221	1842	1084	
	36	1635	963	1263	1258	1832	1086	
	37	1630	977	1629	1636	1829	1094	
	38	1621	1047	1119	1108	1828	1084	
	39	1631	1165	1639	1647	1827	1083	
	40	1620	1195	1647	1642	1824	1083	
	41	1630	1209	1772	1730	1837	1083	
	42	1631	1269	1642	1644	1822	1090	
16.4	43	1646	478	1762	1738	1862	1090	
	44	1639	588	1764	1742	1848	1088	
	45	1640	876	1764	1758	1838	1091	
	46	1640	919	1707	1660	1827	1094	
	47	1641	928	1453	1433	1822	1090	
	48	1652	1021	1379	1393	1833	1076	
	49	1638	1040	1347	1352	1812	1080	
	50	1650	1094	1649	1638	1846	1079	
16.6	51	1667	608	1762	1700	1827	1087	
	52	1661	811	1052	1060	1799	1087	
	53	1674	1054	1399	1342	1787	1098	

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1931phae.proj.120M

Cl-Dk	Defl-Dk	Red Defl	Mag.	Remarks
739	-1	—	—	
781	16	20	—	
715	41	57	—	
745	60	81	—	
745	75	101	—	
744	147	197	—	
761	248	326	—	
710	271	382	—	
732	461	630	—	
711	585	822	—	
744	602	808	885	
758	148	195	652	
746	174	233	674	
735	538	735	off curve ~~124~~	
744	30	40	503	
744	557	748	868	
741	561	756	872	
754	668	887	off	
732	553	757	872	
772	660	855	off	
760	665	874	off	
747	670	898	off	
733	590	805	off	
732	353	483	778	
757	310	409	751	
732	269	366	735	
767	565	737	off	
740	614	830	off	
712	468	660	842	
689	242	351	729	

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1931phae.proj.1203M

H J P – R A 3635 – Jan. 5, 1932.

Mag.	Star	Y	D	Deff	Deff. Ce	Dk	Bolts
	54	1672	1069	1379	1388	1794	1089
16.8	55	1678	957	1613	1620	1807	1092
	56	1681	966	1438	1416	1812	1091
	57	1697	954	1164	1162	1792	1087
	58	1690	1059	1388	1363	1810	1078
	59	1690	1260	1632	1618	1801	1083
	60	1680	1321	1420	1417	1813	1093
	61	1692	1344	1098	1098	1807	1089
17.0	62	1703	690	1663	1637	1799	1094
	63	1697	697	1690	1678	1813	1102
	64	1700	766	1768	1702	1813	1088
	65	1705	931	1572	1530	1789	1084
	66	1698	1009	1177	1162	1778	1086
17.2	67	1737	378	1242	1278	1822	1080
	68	1718	611	1680	1700	1797	1088
	69	1721	802	1548	1518	1757	1074
	70	1730	848	1685	1698	1769	1089
	71	1721	949	1632	1567	1662	1083
	72	1729	1077	1651	1643	1766	1082
	73	1732	1142	1107	1107	1766	1077
17.4	74	1742	704	1626	1627	1757	1070
	75	1744	890	1438	1383	1747	1076
	76	1740	980	1326	1340	1754	1078
	77	1749	1050	1316	1309	1767	1080
	78	1737	1248	1110	1109	1759	1078
	79	1752	1329	1637	1620	1783	1082
17.6	80	1760	670	1459	1427	1790	1078
	81	1757	823	1650	1640	1770	1091
	82	1769	970	1167	1143	1783	1082
	83	1762	1113	1677	1656	1761	1074

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1931phae.proj.128M

Cl.-Dt.	Diff.-Dt.	Red. Diff.	Magn.	Remarks
705	295	417	754 ✓	
715	624	733	off +	
721	336	466	773 ✓	
705	76	107	594 ✓	
732	292	399	747 +	
718	542	754	off +	
720	331	460	770 ✓	
718	09	13	420 ✓	
705	556	789	off +	
711	582	818	off +	
725	647	916	off +	
705	467	662	842 +	
692	84	122	603 ✓	
742	180	243	681 ✓	
709	602	847	off +	
683	459	671	846 +	
680	603	886	off +	
579	516	872	off +	
684	565	827	off + ✓	
689	30	44	510	
687	556	810	off + ✓	
677	343	511	788	
676	255	375	738 ✓	
687	232	338	724 ✓	
681	32	47	520 ✓	
671	546	813	off +	
712	365	512	790 ✓	
679	554	816	off + ✓	
671	73	109	594	
687	692	859	off ✓	

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1931phae.proj.12CM

Dyp – RA 3635 – Jan. 5, 1932.

Trip	Star	y	b	Diff	Diff	Ce	Dk Volts
	×84	1759	1128	1628	1613	1762	1078
	×85	1763	1329	1641	1606	1753	1088
	×86	1772	1373	1677	1701	1776	1088
17.8	×87	1780	819	1692	1714	1762	1084
	↓88	1778	1138	1430	1408	1787	1090
	×89	1783	1341	1678	1638	1783	1087
18.0	↓90	1813	1020	1141	1136	1777	1098
	↓91	1799	1141	1066	1041	1769	1087
	↓92	1802	1283	1624	1650	1780	1083
	×93	1801	1296	1647	1673	1786	1090
	×94	1798	1312	1600	1602	1782	1086
18.2	↓95	1833	573	1418	1413	1810	1092
	×96	1827	719	1702	1687	1781	1077
	×97	1831	873	1608	1660	1773	1078
18.4	↓98	1807	801	1288	1322	1783	1089
	↓99	1807	1076	1233	1237	1767	1080
	×100	1842	1117	1667	1661	1773	1085
	×101	1841	1128	1532	1531	1787	1082
	×102	1842	1387	1631	1594	1784	1093
	1↓	1920	987	1081	—	1758	1077
	1	1921	623	1086	—	1777	1079
	2	—	—	1123	—	1747	1083
	3	—	—	1122	—	1764	1077
	4	—	—	1143	—	1752	1074
	5	—	—	1208	—	1782	1081
	6	—	—	1289	—	1773	1079
	7	—	—	1323	—	1747	1083
	8	—	—	1513	—	1776	1082
	9	—	—	1658	—	1760	1087

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1931phae.proj.128M

Cl.-Dk.	Diff.-Dk.	Red. Diff.	Magn.	Remarks
684	558	816	off +	
665	560	843	off +	
688	601	874	off +	
678	619	913	off +	
694	326	470	774 ✓	
696	571	820	off +	
679	40	59	542 ✓	
682	467	687	860 ✓	
697	554	795	off ✓	
696	570	818	off +	
699	518	742	off +	
718	324	451	766 ✓	
704	611	878	off +	
695	581	836	off +	
694	206	297	707 ✓	
687	155	226	672 ✓	
688	579	841	off +	
705	450	639	834 +	
691	519	751	off +	
679	3	4	—	
698	7	10	—	
664	40	60	—	
687	45	66	—	
678	69	102	—	
701	127	182	—	
694	210	302	—	
664	240	361	—	
694	431	621	—	
673	571	849	—	

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1931phae.proj.128M

74 Heliometer plates under custody - Building seems unusually noisy (12–16)
M. M. R 14 3635 - Jan. 6, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volt.
	1s	1920	958	1040		2001	1049	5.10
	1	1921	595	1062		2031	1034	
	2	—	—	1127		2021	1049	
	3	—	—	1130		2025	1061	
	4	—	—	1180		2043	1058	
	5	—	—	1210		2046	1057	
	6	—	—	1332		2074	1070	
	7	—	—	1407		2023	1065	
	8	—	—	1667		2052	1071	
	9	—	—	1831		2005	1067	
18.6	↓103	1868	570	1139	1118	2018	1070	
	×104	1868	921	1810	1798	2007	1071	
	×105	1863	1007	1768	1761	1988	1072	
	↓106	1873	1109	1242	1228	1981	1082	
	↓107	1869	1138	1163	1145	1991	1077	
	×108	1876	1848	1808	1781	1965	1079	
18.8	↓109	1881	1004	1741	1749	1939	1080	
	×110	1879	1170	1782	1770	1957	1088	
	×111	1892	1187	1826	1809	1950	1121	
	↓112	1885	1303	1682	1642	1939	1081	
	↓113	1892	1331	1700	1687	1959	1089	
	×114	1878	1373	1760	1745	2007	1081	
	↓115	1895	1389	1644	1659	2000	1080	
	×116	1893	1401	1750	1753	2003	1084	
19.0	×117	1907	902	1771	1715	1985	1063	
	×118	1909	1204	1819	1807	2010	1082	
	↓119	1907	1370	1496	1494	2001	1075	
	↓120	1903	1406	1426	1400	2012	1075	
	↓121	1910	1412	1575	1579	2010	1089	
19.2	×122	1920	975	1833	1761	1973	1075	

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1931phae.proj:tzCM

A. R.	Sepa - Dk.	Red. Diff.	Magn.	Remarks
952	-9	—	—	
997	28	28	—	
972	78	80	—	
964	69	72	—	
990	127	128	—	
989	153	154	—	
1004	262	260	—	
958	342	356	—	
981	596	607	—	
938	764	814	—	
948	58	61	523 ✓	
936	733	783	off +	
916	692	754	off +	
899	153	170	648 ✓	
914	77	84	565 ✓	
886	715	807	off +	
859	635	739	off ✓	
869	688	792	off +	
829	697	841	off +	
858	559	650	838 ✓	
870	605	695	850 ✓	
926	671	723	off +	
920	572	621	828 ✓	
919	668	726	off +	
922	680	738	off +	
928	731	786	off	
926	420	453	762 ✓	
937	338	361	732 ✓	
923	490	528	790 ✓	
898	722	802	off +	

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1931phae.proj.128M

Galvanometer rather jumpy.

P. S. R. - R. A. 3635 - Jan. 6, 1932

Trip	Star	y	x	Dff.	Dfl.	Cl.	Dk.	Volts
21+16.2	×123	1692	581	1733	1753	1984	1080	5.1
	×124	1610	838	1756	1708	1967	1072	
	×125	1616	881	1698	1606	1984	1080	
	×126	1615	1094	1878	1831	1963	1081	
	×127	1615	1230	1873	1852	1975	1074	
19.2	×128	1928	675	1879	1853	1986	1078	
	×129	1928	720	1862	1886	1990	1089	
	×130	1930	762	1900	1858	1963	1078	
	×131	1931	775	1888	1862	1999	1081	
	↓132	1922	1111	1513	1525	1986	1073	
	×133	1930	1195	1828	1808	1999	1088	
	×134	1930	1293	1823	1828	1993	1070	
	×135	1920	1331	1760	1738	1983	1077	
	↓136	1919	1340	1208	1218	1980	1078	
	×137	1928	1359	1882	1879	1972	1070	
19.4	↓138	1950	300	1243	1240	2019	1067	
	×139	1950	474	1873	1868	1977	1068	
	↓140	1958	850	1230	1230	1988	1070	
	×141	1957	1166	1907	1903	1973	1081	
	×142	1953	1273	1878	1853	1982	1073	
	↓143	1940	1310	1670	1676	1959	1063	
	↓144	1952	1314	1652	1637	1988	1084	
	1s	1920	959	1080	—	1958	1076	
	1	1922	595	1079	—	2013	1079	
	2	—	—	1173	—	1982	1073	
	3	—	—	1164	—	2010	1077	
	4	—	—	1183	—	2013	1087	
	5	—	—	1232	—	2022	1083	
	6	—	—	1411	—	2017	1092	
	7	—	—	1416	—	2022	1089	
	8	—	—	1671	—	2019	1078	
	9	—	—	1830	—	1989	1073	5.1 —

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1993phac.proj..120M

α-Dkq	Defl-Dk	Red Defl	Mag	Remarks
907	663	732	off +	
895	660	737	off +	
904	550	608	824 +	
882	773	875	off	
901	788	875	off +	
908	788	867	off +	
901	785	871	off +	
885	816	922	off +	
918	794	865	off +	
913	445	487	775 ✓	
911	730	800	off +	
923	756	813	off +	
906	672	741	off +	
902	135	150	637 ✓	
902	810	899	off +	
952	175	184	655 ✓	
909	802	883	off +	
918	160	174	650 ✓	
892	824	925	off +	
909	793	871	off. +	
896	610	682	847 ✓	
904	558	617	827 ✓	
882	4	5	—	
934	0	0	—	
909	100	110	—	
933	87	93	—	
926	96	103	—	
939	149	159	—	
925	319	345	—	
933	327	350	—	
941	593	630	—	
916	757	823	—	

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1931phae.proj.128M

78 Galvanometer unsteady
M.M. – RH 3635 – Jan. 7, 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volt
	k	1920	942	1070	—	2012	1076	
	1	1921	580	1103	—	2040	1073	
	2	—	—	1109	—	2033	1084	
	3	—	—	1772	—	2021	1073	
	4	—	—	1272	—	2036	1073	
	5	—	—	1461	—	2023	1072	
	6	—	—	1500	—	2023	1073	
	7	—	—	1520	—	2022	1078	
	8	—	—	1772	—	2059	1084	
	9	—	—	1878	—	2023	1078	
19.6	145	1976	517	1444	1408	2054	1079	
	146	1970	737	1890	1848	2028	1083	
	147	1961	1082	1898	1887	2046	1085	
	148	1964	1175	1504	1500	2035	1082	
	149	1960	1300	1880	1763	2041	1091	
	150	P. S. R. – R. H. 3635 – Jan. 7, 1932						
	151	1979	1309	1941	1936	2009	1079	5.0
	152	1970	1337	1867	1801	2008	1077	
19.8	153	1994	336	1940	1936	2038	1087	
	154	1998	353	1858	1845	2081	1078	
	155	1991	437	1987	1940	2047	1077	
	156	1980	587	1487	1473	2057	1079	
	157	1989	655	1972	1947	2030	1080	
	158	1990	739	1763	1723	2040	1072	
	159	1992	780	1899	1876	2038	1078	
	160	1979	849	1497	1513	2037	1074	
	161	1981	877	1828	1820	2044	1073	
	162	1981	1159	1757	1723	2056	1069	
	163	1987	1207	1883	1848	2041	1073	
	164	1987	1240	1897	1894	2057	1082	

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1931phae.proj.1203M

α-Dk	Defl-Dk	Red Defl	Mag.	Remarks
936	−6	—	—	
967	30	31	—	
949	25	26	—	
948	99	105	—	
963	199	207	—	
951	389	409	—	
950	427	449	—	
944	442	468	—	
975	688	706	—	
945	800	846	—	
975	343	352	689 ✓	
945	786	832	off ✗	
961	783	815	off ✗	
953	420	441	725 ✓	
950	705	742	off ✗	
930	859	922	off ✗	
931	757	814	off ✗	
951	851	895	off ✗	
1003	774	772	off ✗	
970	887	915	off ✗	
972	401	413	715 ✓	
950	880	928	off ✗	
968	621	642	810 ✓	
960	810	843	off ✗	
963	431	447	728 ✓	
971	751	774	off ✗	
987	671	680	827 ✓	
968	793	820	off ✗	
975	814	835	off	

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1931phae.proj.128..M

P. S. R. - R. A. 3635 - Jan. 7, 1932

Stiff	Star	y	x	Dyl.	Dyl.	Q.	Hk.	Volts
19.8	165	1980	1263	1568	1544	2043	1089	5.0-
	166	1997	1298	1962	1962	2040	1090	
20.0	167	2013	595	1990	1968	2068	1083	
	168	2006	660	1966	1977	2032	1080	
	169	2000	724	1760	1731	2040	1088	
	170	2006	741	1960	1962	2038	1095	
	171	2006	760	1632	1598	2042	1090	
	172	2008	775	1452	1433	2026	1089	
	173	2016	815	1916	1907	2028	1095	
	174	2010	919	1940	1946	2037	1093	
	175	2005	1024	1846	1817	2038	1093	
	176	2005	1040	1940	1937	2036	1092	
	177	2011	1235	1982	2001	2049	1094	
	178	2015	1320	1947	1948	2038	1089	
	179	2011	1402	1918	1917	2043	1093	
	15	1920	943	1096	—	2042	1090	
	1	1921	580	1129	—	2033	1086	
	2	—	—	1120	—	2015	1079	
	3	—	—	1140	—	2000	1073	
	4	—	—	1250	—	2023	1081	
	5	—	—	1312	—	2027	1081	
	6	—	—	1473	—	2023	1083	
	7	—	—	1490	—	2010	1088	
	8	—	—	1683	—	2030	1095	
	9	—	—	1858	—	2048	1087	4.9

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1931phae.proj.12CM

Cl-Dk	Defl-Dk	Red Defl	Mag.	Remarks
954	467	520	76	
950	872	918		
985	896	880		
952	892	964		
952	658	691	831	
943	866	918		
952	525	553	777	
937	353	376	699	
933	817	875		
944	850	900		
945	739	783		
944	846	895		
955	896	937		
949	859	905		
950	825	867		
952	6	6	—	
947	43	45	—	
936	41	44	—	
927	67	72	—	
942	169	179	—	
946	231	244	—	
940	390	415	—	
922	402	437	—	
935	588	630	—	
931	771	828	—	

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1931phae.proj.128M

m.m. – RH 3635 – Jan. 8, 1932

Trip	Star	y	x	dyff	xyff	cc	dx	Dalt
	10	1920	968	1119	—	2192	1120	5.38
	1	1921	602	1152	—	2200	1122	
	2	—	—	1180	—	2178	1123	
	3	—	—	1222	—	2208	1127	
	4	—	—	1230	—	2208	1125	
	5	—	—	1340	—	2220	1128	
	6	—	—	1482	—	2232	1135	
	7	—	—	1543	—	2212	1139	
	8	—	—	1880	—	2238	1142	
	9	—	—	2043	—	2247	1147	
20.2	+ 180	2027	319	2042	2062	2263	1140	
	181	2031	596	1215	1180	2268	1132	
	182	2035	620	1787	1782	2245	1132	
20.4	+ 183	2041	617	2000	2011	2279	1136	
	184	2046	653	1791	1800	2265	1140	
	185	P. & R. – R.M. 3635 – Jan. 8, 1932						
	+ 186	2044	800	2039	2043	2292	1144	
	+ 187	2050	932	2081	2090	2278	1145	
	188	2051	962	1432	1413	2272	1142	
	189	2040	1044	1990	1966	2287	1139	
	190	2051	1071	1442	1458	2307	1146	
	+ 191	2048	1145	1295	1280	2286	1148	
	+ 192	2050	1155	2154	2153	2296	1145	
	+ 193	2040	1218	2177	2177	2306	1135	
	+ 194	2058	1321	2032	2057	2277	1127	
	+ 195	2052	1360	2168	2168	2290	1122	
	+ 196	2039	1411	2072	2070	2300	1131	
	+ 197	2041	1412	2179	2165	2303	1138	
	198	2044	1422	2118	2134	2309	1137	
no star	199							

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1934phae.proj.1203M

Cl-Dk	Defl-Dk	Red Defl	Mag	Remarks
1072	−1			
1078	30	28	—	
1055	57	54	—	
1081	95	88	—	
1083	105	93	—	
1092	212	194	—	
1097	347	317	—	
1073	404	376	—	
1096	738	674	—	
1100	896	815	—	
1123	912	811	688	
1136	66	58	544	
1113	652	587	810	
1143	870	760	off	
1125	656	585	810	
1148	897	780	off	
1133	941	830	off	
1130	280	247	680	
1148	839	730	off	
1161	304	262	688	
1138	140	123	604	
1151	1009	877	off	
1171	1042	890	off	
1150	917	798	off	
1168	1046	895	off	
1169	940	805	off	
1165	1034	877	off	
1172	989	844	off	

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1931phae.proj.128M

P.S.R. - R.A. 3635 - Jan. 8, 1932.

Strip	Star	y	x	dyff	dyff	ce	dk	Volts
20.6	200	2070	460	2010	1986	2313	1138	5.2
	201	2071	865	1702	1673	2308	1135	
	202	2079	952	2185	2138	2267	1133	
	203	2071	1107	2081	2080	2302	1140	
	204	2075	1216	1860	1845	2305	1143	
	205	2068	1333	1766	1772	2292	1143	
	206	2079	1382	2179	2188	2300	1146	
	207	2067	1384	1734	1740	2304	1145	
	208	2060	1401	2167	2176	2306	1148	
	1s	1920	968	1143	—	2273	1145	
	1	1921	603	1153	—	2267	1138	
	2	—	—	1213	—	2235	1133	
	3	—	—	1203	—	2272	1135	
	4	—	—	1241	—	2286	1121	
	5	—	—	1309	—	2239	1112	
	6	—	—	1450	—	2260	1121	
?	7	—	—	1815?	—	2233	1124	
	8	—	—	1811	—	2236	1110	
	9	—	—	2020	—	2212	1120	5.20

Cont. in BK 8 p. 196

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1931phae.proj.12639

Cl-Dk	Dyn Dk	Rid Dafl	Mag.	Remarks
1175	860	732	off	
1173	553	471	773	
1134	1019	896	off	
1162	940	810	off	
1162	709	610	819	
1149	626	545	796	
1154	1038	898	off	
1159	592	512	786	
1158	1024	896	off	
1128	−2	—	—	
1129	15	13	—	
1102	80	73	—	
1137	68	60	—	
1165	120	103	—	
1127	197	175	—	
1139	329	288	—	
1109	691	?624	—	Dafl. reading seems amiss
1126	701	623	—	
1092	900	826	—	

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1931phae.proj.128M

Con from Bk. 83 - last page.
Sept R.A. 2779 - Jan. 13, 1932

Strs.	Star	y	x	klefl	klefe	ce	xk	Volts.
note order of reference stars	1	1920	948	1426	—	1796	1132	5 18
	2	—	—	1543	—	1780	1131	
	1	1920	948	1230	—	1777	1132	
	3		—	1610	—	1789	1132	
	4	—	—	1573	—	1829	1136	
	5	—	—	1606	—	1806	1132	
	6	—	—	1678	—	1821	1141	
	7	—	—	1684	—	1819	1176	
	8	—	—	1731	—	1832	1106	
	9	—	—	1766	—	1818	1176	
18.6	✓122	1877	648	1516	1503	1817	1137	
	✓123	1872	898	1708	1708	1811	1157	
	✓124	1866	984	1750	1753	1826	1136	
	✓125	1877	1087	1619	1614	1821	1134	
	✓126	1871	1114	1536	1527	1811	1133	
	✓127	1878	1324	1780	1780	1853	1142	
18.8	✓128	1886	981	1719	1727	1817	1136	
	✓129	1889	989	1777	1787	1830	1138	
	✓130	1879	999	1777	1800	1826	1142	
	✓131	1881	1147	1771	1764	1830	1134	
	✓132	1892	1162	1776	1771	1837	1138	
	✓133	1887	1290	1783	1788	1826	1139	
	✓134	1884	1281	1741	1753	1836	1140	
	✓135	1890	1292	1700	1750	1820	1137	
	✓136	1890	1338	1780	1768	1843	1139	
	✓137	1880	1351	1763	1770	1844	1143	
	✓138	1897	1368	1740	1758	1827	1147	
	✓139	1891	1379	1789	1782	1827	1138	
19.0	✓140	1904	088	1772	1773	1830	1147	
	✓141	1901	858	1733	1722	1827	1132	

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1931phae.proj..1283M

Cl-Dk	Defl-Dk	RedDefl	mag.	Remarks
661	291	440	—	
649	412	633	—	
645	98	152	—	
657	478	730	—	
689	440	640	—	
674	474	705	—	
680	507	745	—	
646	511	791	—	
676	575	851	—	
645	590	913	—	
680	373	548	528	
654	601	920	off	
690	619	898	off	
687	482	701	663	
678	397	587	560	
711	638	898	off	
681	587	861	off 842	
692	644	932	off	
684	646	943	off	
696	634	911	off	
699	634	907	off	
684	647	944	off	
693	607	877	off	
683	613	898	off	
704	635	902	off	
701	623	890	off	
690	602	872	off	
689	648	943	off	
683	625	915	off	
695	596	856	836	

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1931phae.proj.128M

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Kgp - RT - 3779 - Jan. 13, 1932.

Trip	Star	y	x	dleft	dleft	ce	dk	Volts
	✓142	1911	881	1743	1742	1803	1142	
	✓143	1910	912	1763	1760	1827	1142	
	✓144	1913	1074	1774	1783	1817	1137	
	✓145	1911	1182	1768	1763	1836	1151	
	✓146	1911	1238	1789	1783	1839	1148	
	✓147	1908	1348	1709	1708	1854	1143	
	✓148	1900	1362	1758	1759	1820	1146	
	✓149	1897	1369	1747	1757	1828	1146	
	✓150	1903	1383	1690	1710	1848	1142	
	✓151	1911	1389	1730	1733	1827	1140	
	✓152	1901	1418	1779	1776	1826	1138	
19.2	✓153	1921	903	1703	1731	1793	1147	
	✓154	1923	1089	1692	1693	1827	1142	
	✓155	1930	1172	1768	1767	1836	1168	
	✓156	1930	1270	1763	1779	1842	1143	
	✓157	1920	1308	1752	1760	1847	1138	
	✓158	1920	1318	1616	1613	1826	1138	
19.4	✓159	1903	1252	1787	1772	1830	1132	
	✓160	1940	1289	1741	1740	1833	1143	
	✓161	1952	1291	1742	1732	1834	1136	
19.6	✓162	1960	279	1576	1582	1827	1143	
	✓163	1961	829	1572	1559	1817	1138	
	✓164	1962	1076	1738	1751	1823	1142	
	✓165	1967	1168	1632	1619	1832	1142	
	✓166	1970	1169	1706	1736	1832	1142	
	✓167	1961	1291	1732	1739	1843	1138	
	✓168	1970	1330	1770	1774	1840	1138	
19.8	✓169	1981	510	1587	1592	1818	1140	
	✓170	1988	581	1646	1646	1826	1137	
	✓171	1996	732	1720	1709	1820	1138	

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1934phae.proj.126M

α – Dk	Defl-Dk	Red Defl	mag.	Remarks
661	600	909	off	
685	620	905	off	
680	641	943	off	
685	615	898	off	
691	638	924	off	
711	565	795	761	
684	612	893	off	
682	606	888	off	
706	558	791	755	
687	592	862	843	
701	640	915	off	
646	570	883	off	
685	550	805	774	
668	600	898	off	
699	628	900	off	
709	618	873	off	
688	576	692	810654	
698	648	928	off	
690	597	865	848	
701	604	862	843	
684	436	639	603	
679	428	632	597	
681	612	882	off	
690	484	703	664	
690	599	840	815	
705	598	849	825	
702	634	903	off	
678	450	663	626	
689	509	739	700	
682	576	843	820	

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1931phae.proj.128M

XJP - R H 3779 - Jan. 13, 1932

Strip	Star	y	x	dlpe	dgpe	Ce	Ok	Tel'n
	172	1981	841	1636	1622	1804	1133	
	173	1985	870	1738	1742	1822	1136	
	174	1983	1152	1702	1705	1824	1134	
	175	1989	1200	1748	1758	1830	1134	
	176	1990	1234	1767	1766	1831	1142	
	177	1980	1257	1660	1670	1832	1144	
20.0	178	2008	298	1749	1750	1835	1141	
	179	2000	431	1789	1782	1828	1138	
	180	2004	719	1722	1734	1818	1132	
	181	2010	737	1782	1778	1822	1146	
	182	2010	753	1683	1684	1798	1132	
	183	2011	769	1622	1632	1812	1138	
	184	2011	808	1619	1619	1832	1147	
	185	2001	907	1760	1748	1813	1141	
	186	2009	1043	1784	1783	1817	1143	
	187	2008	1017	1739	1742	1812	1140	
	188	2009	1034	1773	1783	1798	1144	
	189	2016	1103	1789	1798	1826	1149	
	190	2010	1397	1792	1811	1840	1143	
	10	1920	948	1268	—	1760	1152	
	1	1920	085	1426	—	1803	1152	
	2	—	—	1549	—	1781	1147	
	3	—	—	1608	—	1791	1152	
	4	—	—	1576	—	1832	1152	
	5	—	—	1604	—	1820	1160	
	6	—	—	1650	—	1832	1149	
	7	—	—	1678	—	1819	1147	
	8	—	—	1718	—	1821	1149	
	9	—	—	1750	—	1827	1147	516

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1931phae.proj.12pm

c – Dk	Dyl-Dk	Red Dyl	mag.	Remarks
671	495	737	698	
686	604	880	〃	
690	570	825	797	
696	619	889	〃	
689	624	905	〃	
688	521	756	719	
694	609	879	〃	
690	648	940	〃	
686	596	870	〃	
676	634	935	〃	
666	552	826	797	
674	489	725	687	
685	472	688	650	
672	613	912	〃	
674	641	951	〃	
672	600	895	〃	
654	634	968	〃	
677	645	950	〃	
697	659	945	〃	
608	116	190	—	
651	274	421	—	
634	402	633	—	
639	456	715	—	
680	424	622	—	
660	444	672	—	
683	501	735	—	
672	531	791	—	
672	569	847	—	
680	603	885	—	

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1931phae.proj.128M

m.m-RH 3779 – Jan. 14, 1932.

Stuf	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volts.
	1_S	1920	950	1272	—	1847	1144	
	1	1949	588	1428	—	1871	1142	
	2	—	—	1560	—	1847	1142	
	3	—	—	1615	—	1852	1140	
	4	—	—	1671	—	1887	1140	
	5	—	—	1622	—	1878	1146	
	6	—	—	1667	—	1888	1140	
	7	—	—	1704	—	1879	1142	
	8	—	—	1760	—	1897	1142	
	9	—	—	1800	—	1889	1140	
20.2	191	2037	562	1477	1489	1872	1147	
	192	2019	811	1809	1821	1872	1150	
P.S.P.	193	2028	1146	1810	1803	1892	1148	
	194	2037	1383	1850	1835	1916	1150	4.95
	195	2031	140–	1788	1797	1929	1154	
20.4	196	2047	589	1806	1790	1905	1158	
	197	2040	591	1763	1761	1900	1159	
	198	2050	627	1769	1752	1917	1147	
	199	2048	772	1820	1826	1892	1153	
	200	2053	904	1825	1814	1902	1155	
	201	2054	935	1628	1628	1902	1152	
	202	2041	1015	1789	1794	1904	1158	
	203	2053	1043	1626	1620	1921	1159	
	204	2049	1116	1549	1546	1920	1152	
	205	2057	1293	1837	1825	1932	1147	
	206	2042	1394	1832	1844	1899	1154	
	207	2041	140–	1820	1819	1937	1158	
20.6	208	2078	431	1789	1793	1918	1151	
	209	2066	521	1836	1849	1930	1156	
	210	2075	837	1717	1697	1920	1152	

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1931phae.proj.128

e-Dk	Dyfl-Dk	Red Dyfl	Mag.	Remarks
703	128	182	—	
729	286	392	—	
705	418	594	—	
712	475	667	—	
747	431	575	—	
732	476	650	—	
748	527	705	—	
737	562	760	—	
755	618	818	—	
749	660	880	—	
725	336	464	504	
722	665	921	off	
744	658	885	off	
766	692	902	off	
775	638	824	824	
747	640	856	off	
741	603	813	812	
770	613	795	793	
739	670	905	off	
747	665	890	off	
750	476	635	642	
746	634	848	850	
762	464	608	620	
768	396	515	545	
785	684	870	off	
745	684	915	off	
779	662	849	850	
767	640	835	837	
774	686	886	off	
768	555	722	720	

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1931phae.proj.128m

P. S. R. – R. H. 3779 – Jan. 14, 1932

Strip.	Star	y	x	Ref.	Ref.	Cl.	Abb.	Volts
20.6	211	2072	1078	1830	1821	1921	1150	4.93
	212	2075	1188	1769	1763	1921	1150	
	213	2068	1304	1749	1752	1926	1153	
	214	2062	1355	1774	1774	1946	1160	
	215	2060	1373	1865	1858	1952	1149	
	1s	1920	950	1249	—	1875	1144	
	1	1949	588	1430	—	1882	1143	
	2	—	—	1560	—	1861	1144	
	3	—	—	1636	—	1864	1153	
m.m.	4	—	—	1590	—	1917	1161	
	5	—	—	1637	—	1897	1157	
	6	—	—	1690	—	1909	1158	
	7	—	—	1702	—	1899	1157	
	8	—	—	1778	—	1907	1162	4.90
	9	—	—	1820	—	1903	1154	
		m.m. – RH 3779 – Jan. 14, 1932						
	1s	1920	950	1257	—	2012	1171	5.40
	1	1949	588	1500	—	2012	1162	
	2	—	—	1650	—	1987	1168	
	3	—	—	1727	—	2000	1169	
	4	—	—	1675	—	2040	1166	
	5	—	—	1723	—	2030	1173	
	6	—	—	1778	—	2050	1172	
	7	—	—	1828	—	2037	1170	
	8	—	—	1903	—	2065	1172	
	9	—	—	1950	—	2050	1172	
20.8	216	2088	400	1900	1891	2075	1165	
	217	2082	925	1972	1966	2060	1171	
	218	2090	1160	1982	1980	2075	1176	
21.0	219	2118	490	1811	1812	2069	1182	

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1931phae.proj.128.com

α.-Dk.	Defl.-Dk.	Red. Defl.	Magn.	Remarks
771	676	876	off	
771	616	800	798	
773	603	780	777	
786	614	780	777	
803	713	886	off	
731	105	144	—	
739	287	388	—	
717	416	580	—	
711	483	679	—	
756	429	566	—	
740	480	648	—	
751	532	706	—	
742	545	735	—	
745	616	826	—	
749	666	890	—	
841	86	102	—	
850	338	398	—	
824	487	592	—	
831	558	672	—	
874	509	584	—	
857	550	641	—	
878	606	690	—	
857	658	767	—	
893	731	820	—	
878	778	885	—	
910	731	805	804	
889	798	898	off	
899	805	895	off	
887	630	710	706	

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1931phae.proj.128M

m.m. — RH 3479 - Jan. 14, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volts
	220	2110	699	1790	1798	2057	1180	
	221	2105	950	1932	1933	2067	1188	
	222	2099	1120	1969	1960	2070	1190	
	223	2103	1127	1951	1931	2060	1177	
	224	2117	1152	1966	1960	2053	1180	
	225	2103	1163	1978	1980	2061	1175	
	226	2116	1173	1940	1948	2058	1175	
	227	2111	1200	1260	1260	2038	1181	
	228	2104	1417	1865	1854	2080	1178	
21.2	229	2135	585	1947	1908	2098	1182	
	230	2136	721	1990	1988	2079	1186	
	231	2134	992	1971	1969	2068	1187	
	232	2134	1001	1959	1958	2055	1190	
	233	2123	1021	1921	1928	2071	1192	
	234	2129	1040	1976	1968	2073	1197	
	235	2135	1158	1840	1827	2078	1185	
	236	2132	1259	1950	1958	2092	1190	
	237	2128	1256	1959	1940	2095	1182	
	238	2136	1379	1900	1889	2088	1188	
	239	2133	1380	1909	1931	2102	1189	
	240	2126	1398	2000	2002	2109	1193	
	1s	1920	950	1310	—	2090	1188	
	1	1949	588	1517	—	2065	1198	
	2	—	—	1650	—	1982	1195	
	3	—	—	1762	—	2027	1199	
	4	—	—	1705	—	2071	1195	
	5	—	—	1755	—	2060	1198	
	6	—	—	1820	—	2082	1200	
	7	—	—	1857	—	2070	1203	
	8	—	—	1921	—	2089	1202	5.34
	9	—	—	1965	—	2069	1198	

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1931phae.proj.128M

Cl.-Dk.	Diff.-Dk.	Red. Diff.	Magn.	Remarks
877	614	698	694	
879	744	845	850	
880	774	877	off	
883	764	865	off	
878	783	896	off	
886	804	905	off	
883	769	871	off	
857	79	92	off	too bright
902	682	756	750	
916	746	815	815	
893	803	899	off	
881	783	889	off	
866	768	887	off	
879	732	832	834	
876	775	885	off	
893	649	726	723	
902	764	846	850	
913	768	842	845	
900	706	785	782	
913	731	801	798	
916	808	918	off	
842	122	145	255	
867	319	368	424	
787	455	578	588	
828	563	680	679	
876	610	583	593	
862	567	657	657	
882	620	703	699	
870	657	753	745	
887	719	810	818	
871	767	880	off	

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1931phae.proj.12RM

DLP - CH 3779 - Jan. 14, 1932.

Strip	Star	Y	X	Dyf	Dyf	Ce	Dk	Volts
	1	1920	900	1291	—	1970	1170	525
	'	1949	588	1516	—	2048	1187	
	2	—	—	1673	—	2006	1178	
	3	—	—	1748	—	2008	1192	
	4	—	—	1696	—	2067	1190	
	5	—	—	1761	—	2052	1188	
	6	—	—	1807	—	2062	1192	
	7	—	—	1854	—	2067	1179	
	8	—	—	1919	—	2076	1189	
	9	—	—	1972	—	2072	1192	
21.4	241	2150	318	1862	1857	2094	1188	
	242	2149	463	1522	1513	2098	1199	
	243	2151	491	1922	1918	2094	1200	
	244	2157	568	1706	1663	2099	1197	
	245	2138	585	1963	1938	2082	1201	
	246	2140	1009	2022	2023	2077	1206	
	247	2154	1136	2017	2004	2093	1202	
	248	2142	1226	1952	1935	2093	1206	
	249	2140	1345	2037	2057	2107	1203	
	250	2150	1346	1992	1983	2102	1196	
	251	2150	1374	2011	2013	2114	1198	
21.6	252	2167	573	1973	1967	2087	1207	
	253	2169	606	2019	2004	2082	1201	
	254	2162	632	1947	1942	2084	1209	
	255	2158	639	2027	2030	2098	1213	
	256	2157	731	2016	2018	2107	1220	
	257	2162	793	1863	1872	2077	1212	
	258	2170	1238	1770	1768	2090	1205	
	259	2158	1295	1983	1977	2113	1210	
	260	2159	1308	2028	2034	2127	1210	

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1951PHAE..proj..123M

Cl.-Dk.	Dopl.-Dk.	Red. Dopl.	Magn.	Remarks
800	121	151		
861	329	383		
828	495	596		
816	556	681		
877	506	576		
864	573	663		
870	615	707		
888	675	761		
887	730	823		
880	780	887		
906	668	738	714	
894	319	357	417	
894	720	805	780	
902	487	540	550	
881	749	850	832	
871	822	943	off	
891	808	907	off	
898	741	823	800	
904	844	938	off	
906	782	863	849	
916	814	889	off	
880	763	867	off	
882	812	920	off	
875	735	840	820	
885	815	921	off	
887	797	899	off	
865	656	758	734	
885	509	575	579	
903	710	852	833	
917	821	896	off	

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1931phae.proj.12:3M

2 Lyr - R.A. 3779 - Jan. 14, 1932

temp	star	y	x	dy/dt	dx/dt	α	κ/κ	Notes
	261	2173	1377	2046	2039	2124	,217	
	262	2170	1400	2032	2028	2126	1218	
21.8	263	2195	600	2023	2046	2098	1214	
	264	2181	609	1919	1903	2.113	1222	
	265	2180	618	2003	2003	2131	1223	
	266	2197	617	1872	1892	2113	1224	
	267	2192	640	2010	1997	2112	1234	
	268	2191	809	1692	1689	2078	1220	
	269	2180	986	1552	1547	2063	1228	
	270	2190	1173	1853	1864	2097	1227	
	271	2191	1332	2028	2013	2126	1223	
22.0	272	2210	728	1753	1750	2121	1222	
	273	2211	917	2022	2050	2098	1229	
	274	2201	1188	2018	2012	2130	1232	
	275	2208	1227	2038	2036	2107	1220	
22.2	276	2234	484	2022	2022	2138	1223	
	277	2230	542	1747	1827	2141	1228	
	278	2220	552	2023	2026	2111	1227	
	279	2217	640	1953	1948	2122	1228	
	280	2230	1051	1863	1870	2100	1222	
	281	2230	1151	2007	2020	2109	1228	
	282	2230	1296	1977	1983	2113	1223	
	283	2217	1319	2036	2030	2148	1227	
	284	2220	1380	2036	2040	2143	1222	
22.4	285	2240	704	2002	2012	2123	1232	
	286	2242	712	2046	2043	2142	1226	
	287	2249	700	2053	2042	2113	1227	
	288	2253	1002	1952	1926	2107	1228	
	289	2241	1140	2052	2077	2122	1236	
	290	2236	1204	2042	2028	2133	1229	

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1931phae.proj.1203M

Cl.-Dk.	Defl.-Dk.	Red Defl.	Magn.	Remarks
907	825	909	off	
908	812	894	off	
884	826	927	off	
891	689	774	745	
908	780	858	845	
889	658	741	715	
878	770	877	off	
858	470	548	558	
835	322	384	435	
870	631	725	703	
903	797	882	off	
899	530	589	589	
869	807	928	off	
898	783	871	off	
887	817	921	off	
915	797	870	off	
913	559	612	606	
884	797	900	off	
894	722	807	783	
878	644	733	709	
881	786	891	off	
890	757	858	832	
921	806	876	off	
921	816	886	off	
891	775	870	off	
916	818	892	off	
886	821	926	off	
879	711	810	786	
886	828	935	off	
904	806	892	off	

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1931phae.proj.1202M

α Ser – R.A. 2779 – January 14, 1932

Strip	Star	y	x	dleft	dleft	cc	dk	Delta
	291	2242	1248	2057	2062	2130	1227	
	292	2248	1290	2010	2018	2133	1227	
	293	2258	1291	1903	1887	2132	1232	
	294	2239	1289	1967	1966	2124	1237	
226	295	2262	526	2060	1996	2139	1241	
	296	2260	772	2033	2049	2112	1239	
	297	2270	994	2039	2032	2119	1237	
	298	2260	1197	2056	2060	2136	1240	
	299	2276	1284	1992	1968	2133	1233	
	300	2260	1285	2039	2030	2147	1247	
	301	2260	1310	1960	1960	2156	1232	
22.8	302	2280	520	1773	1758	2152	1238	
	303	2297	578	1998	1987	2131	1239	
	304	2280	1142	1965	1932	2122	1230	
	305	2292	1100	2037	2036	2138	1240	
	306	2288	1104	2032	2036	2133	1228	
	307	2280	1309	2063	2066	2148	1232	
	10	1920	950	1354	—	2018	1231	520
	1	1949	088	1562	—	2067	1232	
	2	—	—	1727	—	2058	1237	
	3	—	—	1800	—	2061	1237	
	4	—	—	1743	—	2110	1238	
	5	—	—	1801	—	2084	1245	
	6	—	—	1862	—	2118	1238	
	7	—	—	1903	—	2099	1233	
	8	—	—	1962	—	2093	1229	
	9	—	—	1999	—	2101	1239	

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1931phae.proj.1283M

Cl.-Dk.	Defl.-Dk.	Red. Defl.	Mag.	Remarks
903	833	922	off	
906	777	858	845	
900	663	737	713	
887	729	823	800	
898	~~685~~ 784	~~763~~ 870	~~737~~ 837	
873	812	930	off	
882	799	906	off	
916	818	895	off	
900	747	830	807	
900	787	875	off	
924	728	790	763	
914	528	578	582	
892	753	844	825	
892	718	806	780	
898	796	885	off	
905	806	891	off	
916	832	908	off	
787	123	156		
835	330	395		
821	490	598		
824	563	682		
872	505	579		
839	556	664		
880	624	710		
866	670	773		
864	733	850		
862	760	882		

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1931phae.proj.1203M

m.m. -RH 3779- January 14, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volts
	15	1920	953	1268		1843	1157	5.22
	1	1949	591	1433		1877	1149	
	2	—	—	1577		1849	1157	
	3	—	—	1629		1851	1154	
	4	—	—	1588		1880	1157	
	5	—	—	1628		1860	1155	
	6	—	—	1678		1883	1157	
	7	—	—	1700		1873	1157	
	8	—	—	1762		1882	1158	
	9	—	—	1790		1872	1158	
23.0	308	2317	430	1709	1710	1898	1162	
	309	2303	609	1805	1810	1887	1162	
	310	2304	998	1741	1740	1873	1159	
	311	2315	1091	1810	1819	1880	1159	
	312	2310	1112	1800	1790	1891	1158	
	313	2310	1230	1808	1794	1910	1157	
	314	2316	1289	1636	1629	1913	1157	
	315	2307	1820	1589	1578	1917	1155	
23.2	316	2836	491	1797	1819	1918	1154	
23.4	317	2352	477	1790	1787	1928	1157	
	318	2350	516	1747	1731	1918	1157	
	319	2348	1039	1828	1835	1910	1159	
23.6	320	2366	775	1731	1748	1931	1158	
	321	2369	848	1811	1808	1920	1161	
	322	2377	1151	1480	1458	1918	1159	
23.8	323	2391	578	1480	1482	1950	1161	5.24
	324	2392	663	1764	1770	1912	1158	
	325	2389	978	1857	1863	1917	1157	
	326	2398	1243	1700	1699	1954	1166	

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1934phae.proj.1203M

Cl-Dk.	Defl.-Dk.	Red. Defl.	Magn.	Remarks
686	111	162	—	
728	284	390	—	
692	420	606	—	
697	475	681	—	
723	431	595	—	
705	468	665	—	
726	521	715	—	
716	543	756	—	
724	604	834	—	
714	632	885	—	
736	548	745	713	
725	646	891	off	
714	581	815	797	
721	655	909	off	
733	637	870	off	
753	644	855	848	
756	535	705	621	
762	429	564	544	
764	654	855	848	
771	631	819	800	
761	582	765	738	
751	723	961	off	
773	582	752	721	
759	639	840	827	
759	310	407	439	
789	320	405	438	
754	609	809	789	
760	703	925	off	
788	534	675	641	

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1931phae.proj.126M

P.S.R. – R.A. 3779 – Jan. 15, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volts.
24.0	✓327	2484	553	1828	1820	1953	1168	
	✓328	2402	681	1773	1773	1939	1170	
	✓329	2406	1100	1854	1848	1932	1160	
	✓330	2400	1143	1732	1722 †	1940	1170	
24.2	✓331	2430	1109	1627	1629	1945	1169	
24.4	✓332	2457	911	1754	1757	1952	1176	
	✓333	2443	1161	1850	1845	1948	1167	
24.6	✓334	2471	635	1840	— ‡	1929	1168	
	✓335	2460	831	1858	1849	1930	1170	
	✓336	2474	833	1774	1770	1935	1170	
	✓337	2461	1167	1788	1794	1949	1157	
	✓338	2476	1020	1460	1430 ≠	1919	1167	
24.8	✓339	2493	1044	1763	1779	1930	1165	
25.2	✓340	2526	846	1860	1875	1924	1171	
	✓341	2530	952	1819	1818	1942	1165	
	15	1920	952	1283	—	1888	1164	
	1	1949	590	1478	—	1906	1174	
	2	—	—	1618	—	1876	1162	
	3	—	—	1662	—	1869	1166	
	4	—	—	1630	—	1912	1178	
	5	—	—	1681	—	1903	1179	
	6	—	—	1731	—	1919	1177	
	7	—	—	1760	—	1922	1191	
	8	—	—	1813	—	1926	1177	
	9	—	—	1841	—	1923	1175	5.0

Plate finished

† Small dark speck in image ‡ Image too near ink line to measure.

≠ Image in contact with image of polar star.

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1934phae.proj.1283M

α.-Dk.	Decl.-Dk.	Red. Decl.	Magn.	Remarks
785	656	836	821	
769	603	784	761	
772	691	895	off	
770	557	725	691	
776	459	590	564	
776	580	746	712	
781	681	871	off	
761	674	# 885	off	
760	684	899	off	
765	602	786	761	
792	634	800	777	
752	278	370	414	
765	605	790	768	
753	697	926	off	
777	653	840	827	
724	119	166	—	
732	304	415	—	
714	456	640	—	
703	496	706	—	
734	452	615	—	
724	502	694	—	
742	554	745	—	
731	569	778	—	
749	636	850	—	
748	666	892	—	

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1931phae.proj.1213M

2gs — R.A. 3780 — Jan 15, 1932

Trip	Star	α	δ	$\Delta\alpha$ cos δ	$\Delta\alpha$	Cc	dk	Valt
	1A	1914	953	1195	++	1792	1153	520
	1	1960	593	1322	—	1830	1108	
	2	—	—	1482	—	1828	1163	
	3	—	—	1523	—	1828	1168	
	4	—	—	1472	—	1873	1173	
	5	—	—	1542	—	1907	1172	
	6	—	—	1609	—	1876	1172	
	7	—	—	1652	—	1863	1172	
	8	—	—	1718	—	1870	1172	
	9	—	—	1788	—	1863	1173	
14.2	x 1	1420	814	1763	1782	1858	1179	
14.6	x 2	1461	1028	1748	1744	1864	1188	
	x 3	1471	1034	1790	1797	1859	1186	
14.8	x 4	1482	589	1752	1764	1852	1188	
	x 5	1490	929	1791	1770	1852	1186	
	x 6	1493	1046	1691	1713	1871	1186	
15.0	x 7	1498	572	1825	1830	1853	1198	
	x 8	1500	599	1797	1803	1873	1197	
	x 9	1500	808	1810	1812	1876	1200	
	x 10	1500	844	1778	1809	1879	1199	
	1A	1914	953	1253	—	1853	1189	520
	1	1960	593	1360	—	1883	1184	
	2	—	—	1517	—	1857	1187	
	3	—	—	1572	—	1864	1192	
	4	—	—	1506	—	1884	1183	
	5	—	—	1552	—	1921	1183	
	6	—	—	1622	—	1890	1184	
	7	—	—	1672	—	1873	1173	
	8	—	—	1731	—	1870	1183	
	9	—	—	1787	—	1863	1182	

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1931phae.proj.1203M

Cl.-Dk.	Defl.-Dk.	Rel. Defl.	Magn.	Remarks
639	42	66	—	
672	164	245	—	
665	319	480	—	
660	365	553	—	
706	299	427	—	
735	370	504	—	
704	437	621	—	
691	480	695	—	
698	546	782	—	
690	615	891	—	
679	593	871	off	
676	558	825	850	
673	608	905	off	
664	570	860	off	
666	594	890	off	
685	516	755	797	
655	630	960	off	
676	603	890	off	
676	611	904	off	
680	595	875	off	
664	64	96	—	
699	176	252	—	
670	330	492	—	
672	380	565	—	
701	323	461	—	
738	369	500	—	
706	438	620	—	
700	499	713	—	
687	548	798	—	
681	605	890	—	

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1931phae.proj.120M

N 38 - R.A. 3780 - Jan. 16, 1932.

Strip	Star	y	x	dy/dt	dy/dt	Cc	dx/dt	Volts
	11	1913	921	1220	—	1943	1192	0-10-
	1	1960	561	1332	—	2001	1198	
	2	—	—	1494	—	1977	1203	
	3	—	—	1067	—	2002	1200	
	4	—	—	1488	—	2037	1199	
	5	—	—	1052	—	2087	1203	
	6	—	—	1643	—	2037	1201	
	7	—	—	1710	—	2039	1207	
	8	—	—	1813	—	2017	1203	
	9	—	—	1914	—	2017	1208	
15.2	11	1529	489	1660	1662	1937	1208	
	12	1537	629	1823	1833	2016	1210	
	13	1521	1087	1876	1888	1992	1213	
15.4	14	1551	579	1814	1822	1993	1200	
	15	1560	721	1749	1764	1992	1212	
	16	1551	842	1822	1832	2012	1213	
	17	1552	1004	1850	1857	2018	1208	
	18	1549	1087	1651	1646	2009	1203	
15.6	19	1562	601	1797	1818	2011	1207	
	20	1569	611	1880	1872	2008	1202	
	21	1574	988	1568	1578	1996	1200	
	22	1559	1001	1853	1869	2007	1202	
	23	1558	1145	1908	1921	1993	1207	
15.8	24	1580	487	1431	1433	1987	1208	
	25	1591	959	1763	1739	2012	1212	
	26	1588	1009	1572	1576	1992	1219	
16.0	27	1600	600	1463	1482	1997	1213	
	28	1607	843	1847	1867	1992	1213	
	29	1611	960	1732	1751	2000	1206	
	30	1610	1138	1754	1792	1977	1201	

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1931phae.proj.1282M

Cl.-Dk.	Defl.-Dk.	Red. Defl.	Magn.	Remarks
751	28	37	—	
803	134	167	—	
774	291	376	—	
802	367	457	—	
838	289	344	—	
884	349	395	—	
836	442	527	—	
832	503	605	—	
814	610	750	—	
809	706	875	—	
729	453	620	438	outside circle
806	618	766	835	
779	669	858	off	
793	618	780	844	
780	544	696	786	
799	614	767	836	
810	646	798	off	
806	445	552	700	
804	601	749	823	
806	674	835	off	
796	373	467	655	
805	659	817	off	
786	707	900	off	
779	224	287	537	
800	539	675	774	
773	365	473	657	
784	259	330	569	
779	644	825	off	
794	536	676	774	
776	572	736	913	

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1931phae.proj.12CM

Diff-C.P. 3780 - Jan 16, 1932.

Strip	Star	y	x	xeff	Deff	ce	ck	Notes
	✓31	1617	1160	1752	1746	1980	1213	
	×32	1617	1200	1872	1892	1992	1216	
16.2	×33	1629	0542	1896	1913	2006	1212	
	×34	1620	0566	1842	1871	1996	1214	
	×35	1620	820	1853	1863	2008	1213	
	✓36	1627	864	1840	1832	1983	1221	
	✓37	1631	999	1517	1526	1984	1218	
	×38	1630	1148	1880	1889	1992	1222	
	×39	1617	1161	1743	1730	1989	1217	
16.4	✓40	1640	643	1642	1656	2017	1213	
	×41	1650	871	1878	1882	2000	1214	
	✓42	1607	880	1764	1777	2008	1212	
	✓43	1644	904	1646	1665	1985	1213	
	×44	1640	928	1860	1844	1998	1222	
	✓45	1649	992	1728	1757	2007	1217	
	×46	1642	1118	1868	1876	2008	1210	
	×47	1646	1222	1871	1899	2002	1223	
16.6	×48	1670	762	1848	1874	1987	1216	
	✓49	1662	973	1747	1757	1989	1216	
	×50	1660	1048	1876	1890	1996	1218	
16.8	×51	1687	907	1887	1778	1993	1222	
	✓52	1691	918	1778	1796	2002	1214	
	✓53	1683	1007	1745	1753	2000	1212	
	✓54	1682	1021	1742	1756	1979	1222	
	×55	1690	1273	1808	1802	1973	1218	
17.0	×56	1700	463	1921	1858	2010	1213	
	×57	1710	0541	1898	1897	2008	1217	
	×58	1708	648	1907	1927	1999	1213	
	×59	1708	718	1927	1943	2013	1226	
	×60	1713	882	1852	1857	2021	1222	

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1931phae.proj.12833M

Cl-Obs	Defl-Obs	Red Defl	Mag.	Remarks
773	536	695	785 ✓	
776	666	860	off +	
794	692	870	off +	
782	642	820	off +	
795	645	810	off +	
762	615	807	off ✓	
766	304	396	610 ✓	
770	662	860	off +	
772	719	931	off +	
804	426	530	689 ✓	
786	666	848	off +	
796	558	700	790 ✓	
772	448	575	713 ✓	
776	630	810	off +	
790	525	665	768 ✓	
798	662	828	off +	
779	632	810	off +	
771	645	836	off +	
773	536	695	786 ✓	
778	665	855	off +	
771	610	790	850 +	large diff. in deflections
788	573	725	805 ✓	
788	537	680	777 ✓	
757	527	696	786 ✓	
755	587	777	843 +	
797	677	850	off +	
791	681	861	off +	
786	704	895	off +	
790	712	900	off +	
799	632	790	850 +	

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1931phae.proj.12SM

Xgl = R.A. 3780 - Jan. 16, 1932.

Strip	Star	y	x	Dyll	Dyll	cl	dk	Vals.
	✓61	1705	907	1617	1631	1987	1229	
	✓62	1707	960	1596	1576	1997	1221	
	✓63	1760	1011	1754	1766	2014	1223	
	×64	1703	1213	1883	1893	2007	1222	
	✓65	1704	1296	1480	1486	1977	1218	
17.2	×66	1725	561	1993	1926	2014	1227	
	×67	1730	753	1847	1887	2018	1222	
	×68	1720	900	1888	1878	2003	1227	
	×69	1720	1054	1931	1956	2006	1213	
17.4	×70	1741	329	1638	1641	2013	1208	
	×71	1751	603	1902	1913	1992	1209	
	✓72	1763	841	1762	1781	2000	1208	
	✓73	1751	931	1722	1732	1989	1200	
	✓74	1748	1094	1492	1507	1986	1212	
	✓75	1749	1200	1539	1570	1980	1211	
17.6	✓76	1769	621	1768	1803	2020	1214	
	×77	1765	773	1900	1909	2010	1217	
	✓78	1770	921	1493	1517	1981	1218	
	✓79	1759	1001	1712	1732	1999	1213	
	×80	1768	1079	1868	1890	2000	1203	
	×81	1765	1281	1892	1882	1980	1212	
	1*	1913	921	1256	—	1952	1210	510
	1	1960	561	1346	—	1982	1200	
	2	—	—	1519	—	1972	1203	
	3	—	—	1547	—	1977	1193	
	4	—	—	1003	—	1992	1190	
	5	—	—	1560	—	2042	1181	
	6	—	—	1642	—	1982	1179	
	7	—	—	1699	—	1987	1194	
	8	—	—	1792	—	1977	1199	
	9	—	—	1883	—	1984	1198	

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1931phae.proj.1283M

Cl-Dk	Defl-Dk	Red Defl	Mag.	Remarks
758	395	520	684 ✓	
776	373	480	661 ✓	
791	537	678	776 ✓	
785	666	850	off +	
759	223	294	543 ✓	
787	707	899	off +	
796	645	810	off +	
776	656	845	off +	
793	731	924	off +	
805	432	535	692	outside circle
783	699	894	off ×	
792	562	710	795 ✓	
789	527	669	770 ✓	
774	288	372	594 ✓	
769	343	~~312~~ 446	~~554~~ 644 ✓	
806	572	709	795 ✓	
793	687	865	off ×	
763	287	376	598 ✓	
786	509	648	757 ✓	
797	676	848	off +	
768	675	878	off +	
742	46	62	—	
782	146	187	—	
769	316	412	—	
784	354	452	—	
799	310	388	—	
861	379	440	—	
803	463	575	—	
793	505	637	—	
778	593	760	—	
786	685	870	—	

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1931phae.proj.12:3M

2198 – R.A. 3780 – Jan. 17, 1902.

Trip	Star	y	x	Defc.	Defc	Cc	Dk	Volts.
	1 s	1913	921	1183	—	1872	1156	515
	1	1960	561	1321	—	1913	1154	
	2	—	—	1503	—	1908	1166	
	3	—	—	1541	—	1902	1159	
	4	—	—	1492	—	1937	1158	
	5	—	—	1536	—	1998	1168	
	6	—	—	1620	—	1948	1148	
	7	—	—	1691	—	1948	1172	
	8	—	—	1762	—	1933	1163	
	9	—	—	1837	—	1921	1166	
17.8	↓82	1788	1089	1740	1750	1933	1167	
18.0	↓83	1808	1093	1779	1789	1940	1162	
	+84	1813	1237	1796	1803	1921	1161	
	↓85	1811	1248	1852	1788	1914	1158	
	×86	1809	1263	1804	1812	1912	1157	
	× 87	1797	1293	1810	1822	1942	1187	
18.2	×88	1832	669	1882	1888	1970	1189	
	×89	1820	831	1862	1866	1953	1189	
	↓90	1822	980	1437	1447	1943	1197	
18.4	↓91	1841	494	1717	1747	1959	1182	
	×92	1841	795	1882	1923	1952	1203	
	×93	1840	823	1893	1898	1954	1193	
	↓94	1851	1078	1810	1822	1960	1202	
	×95	1856	1388	1822	1845	1952	1190	
18.6	↓96	1861	753	1638	1680	1968	1201	
	×97	1871	987	1821	1843	1964	1192	
	↓98	1861	1028	1626	1634	1950	1182	
18.8	↓99	1879	551	1433	1442	1949	1177	
	×100	1880	901	1849	1847	1949	1196	
	↓101	1891	983	1822	1863	1953	1208	

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1931phae.proj.1283M

cl-Dk	Defl-Dk	Red Defl	mag	mag.	Remarks
716	27	38	—	—	
759	167	220	—	—	
742	337	455	—	—	
743	382	515	—	—	
779	314	404	—	—	
830	365	440	—	—	
795	472	593	—	—	
776	519	668	—	—	
770	599	777	—	—	
755	671	889	—	—	
766	578	754	805	805 ✓	
778	622	800	835	835 ✓	
760	639	842	off	off +	
756	562	742	815	798	
755	651	863	off	off +	
755	629	832	off	off +	
781	696	891	off	off	
764	675	883	off	off +	
746	255	343	576	524 ✓	
777	550	708	794	776 ✓	
749	699	935	off	off +	
761	703	924	off	off +	
758	614	809	off	842 ✓	
762	644	845	off	off +	
767	458	598	725	704 ✓	
772	640	828	off	off +	
768	448	585	718	695 ✓	
772	261	338	574	522 ✓	
753	652	864	off	off +	
745	634	851	off	off ✓	

Rejected

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1931phae.proj.128M

α Ap - R.A. 3780 - Jan. 17, 1932.

Diff	Star	η	δ	δ(1931)	α(1931)	cc	dδ	Total
	102	1886	1090	1591	1603	1942	1176	
	103	1880	1119	1462	1492	1950	1181	
	104	1890	1150	1836	1842	1947	1177	
	105	1890	1178	1862	1878	1943	1194	
	106	1890	1328	1826	1847	1940	1188	
	107	1891	1354	1837	1860	1947	1200	
19.0	108	1908	860	1796	1818	1969	1210	
	109	1903	1166	1882	1873	1973	1212	
	110	1899	1283	1816	1828	1967	1200	
	111	1904	1310	1793	1814	1958	1193	
	112	1910	1364	1843	1857	1948	1210	
	113	1910	1371	1788	1820	1989	1197	
	114	1904	1183	1840	1878	1952	1199	
19.2	115	1918	883	1842	1864	1997	1211	
	116	1930	954	1852	1852	1983	1214	
	117	1933	1091	1752	1753	1980	1210	
	118	1920	1184	1873	1883	1954	1219	
	119	1922	1240	1912	1920	1963	1222	
	120	1931	1310	1861	1876	1982	1213	
	121	1930	1320	1617	1627	1980	1226	
	122	1920	1357	1762	1766	2011	1230	
	123	1919	1384	1736	1749	1973	1223	
	124	1922	1293	1783	1787	1980	1220	
19.4	125	1941	1174	1898	1906	2003	1236	
	126	1941	1274	1900	1900	2002	1228	
	127	1951	1290	1830	1872	2001	1239	
19.6	128	1958	281	1642	1637	2034	1252	
	129	1968	830	1603	1666	2008	1237	
	130	1971	1078	1876	1910	2026	1242	
	131	1966	1253	1910	1930	2004	1251	

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1951phae.proj.128M

Cl-Dk	Defl-Dk	Red Defl	Mag.	mags.	Remarks
766	421	550	498	674	
769	296	384	603	557	
770	661	858	off	off	
749	676	904	off	off	
752	648	863	off	off	
747	648	868	off	off	
759	627	826	off	850	
761	666	870	off	off	
767	622	812	off	844	
765	611	798	off	835	
738	640	866	off	off	
792	607	767	752	820	
753	660	876	off	off	
786	642	815	off	845	
769	638	830	off	off	
770	542	704	792	772	
735	659	895	off	off	
741	694	936	off	off	
769	655	852	off	off	
754	396	525	686	656	
781	534	683	779	760	
750	519	692	788	764	
760	565	743	817	797	
767	656	855	off	off	
774	672	867	769	748	
762	612	804	off	840	
802	408	510	679	647	
771	367	477	640	627	
784	651	830	off	off	
753	669	888	off	off	

Vitreolat

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1931phae.proj.12130M

α Pp – R.A. 3780 – Jan. 17, 1932.

Trip	Star	y	x	Δyfl	Δyfl	cc	Δk	Volts
19.8	132	1983	511	1639	1638	2031	1252	
	133	1990	682	1710	1738	2032	1248	
	+134	1980	721	1905	1904	2042	1248	
	135	1990	843	1732	1738	2016	1248	
	+136	1991	871	1880	1929	2023	1249	
	137	1993	1053	1842	1867	2028	1250	
	138	1978	1169	1706	1710	2027	1257	
	139	1980	1171	1882	1908	2038	1263	
	+140	1991	1258	1778	1797	2027	1269	
	+141	1983	1332	1914	1940	2050	1260	
20.0	+142	2004	288	1962	1943	2060	1206	
	143	2010	719	1859	1880	2022	1254	
	144	2000	732	1850	1862	2028	1247	
	145	2016	753	1808	1810	2013	1258	
	+146	2002	777	1940	1943	2027	1267	
	147	2009	908	1902	1912	2049	1263	
	+148	2000	200	1913	1917	2022	1265	
	+149	2000	1236	1917	1931	2018	1257	
	10	1913	921	1318	—	1980	1258	515
	1	1960	561	1447	—	2004	1261	
	2	—	—	1583	—	2010	1253	
	3	—	—	1636	—	2021	1260	
	4	—	—	1602	—	2043	1259	
	5	—	—	1663	—	2072	1258	
	6	—	—	1732	—	2032	1260	
	7	—	—	1797	—	2037	1263	
	8	—	—	1859	—	2010	1257	
	9	—	—	1928	—	2020	1261	

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1951phae.proj..122SM

α - Dk	Defl - Dk	Red Defl	Mag	Remarks
779	386	496	639 ✓	
789	481	610	712 ✓	
799	661	826	off ✗	
768	481	633	727 ✓	
774	655	847	off ✗	
778	606	779	823 ✓	
770	451	586	696 ✓	
775	632	813	844 ✓	
758	519	675	755 ✓	
790	667	844	off ✗	
804	696	865	off ✗	
768	616	802	838 ✓	
781	609	781	822 ✓	
755	551	730	790 ✓	
770	685	890	off ✗	
786	644	821	849 ✗	
757	650	860	off +	
761	667	875	off +	
722	60	83	—	
743	186	250	—	
757	330	437	—	
761	376	494	—	
784	343	437	—	
814	405	498	—	
772	472	611	—	
774	534	690	—	
759	608	802	—	
759	667	880	—	

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1931phae.proj.123QM

RH 3780 – Jan. 18, 1932

Setup	Stn	y	x	Defl.	Defl.	Dl.	Db.	volts
	1s	1913	963	1177	—	1802	1163	575
	1	1960	608	1281	—	1879	1130	
	2	—	—	1444	—	1881	1132	
	3	—	—	1496	—	1878	1128	
	4	—	—	1477	—	1909	1127	
	5	—	—	1533	—	1897	1143	
	6	—	—	1646	—	1911	1130	
	7	—	—	1638	—	1898	1132	
	8	—	—	1718	—	1897	1127	
	9	—	—	1787	—	1881	1122	
20.2	×150	2031	831	1797	1783	1923	1138	
	√151	2014	777	1673	1688	1892	1123	
	√152	2017	812	1568	1593	1927	1142	
	√153	2018	849	1554	1570	1903	1142	
	×154	2026	852	1811	1838	1943	1149	
	×155	2016	1060	1777	1795	1919	1152	
	×156	2023	1439	1833	1828	1909	1143	
20.4	√157	2040	602	1410	1422	1911	1158	
	×158	2050	630	1801	1810	1920	1153	
	√159	2042	636	1730	1736	1920	1147	
	√160	2043	667	1723	1737	1918	1147	
	×161	2052	814	1788	1828	1942	1153	
	×162	2051	1058	1773	1780	1913	1156	
	×163	2039	1188	1812	1822	1918	1143	
	×164	2051	1434	1804	1808	1901	1157	
	×165	2054	1436	1816	1830	1906	1146	
	√166	2047	1442	1682	1670	1892	1143	
20.6	×167	2060	947	1810	1814	1914	1156	
	√168	2061	976	1527	1568	1932	1152	
	√169	2061	1084	1562	1552	1933	1158	

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1931phae.proj.128SM

cl-Dk	Defl.-Dk	Red Defl	Mag.	Remarks
669	44	66	—	
749	151	202	—	
749	312	416	—	
750	368	490	—	
782	350	448	—	
754	390	517	—	
781	486	623	—	
766	506	660	—	
770	591	768	—	
759	665	876	—	
785	652	830	off +	
759	547	720	786 ↙	
785	438	558	685 ↙	
761	420	553	681 ↙	
794	675	852	off +	
767	634	826	off +	
766	687	896	off +	
761	266	349	544 ↙	
767	653	851	off +	
773	585	758	814 ↙	
771	583	757	813 ↙	
789	655	830	off +	
760	623	820	off +	
775	674	869	off +	
744	645	866	off +	
760	727	956	off +	
749	533	711	781 ↙	
758	656	865	off +	
780	396	508	652 ↙	
775	399	515	656 ↙	

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1931phae.proj.123M

3 JP - R.H. 3780 - Jan. 18, 1932

Strip	Star	Y	d	dyll	dyll	Ce	dk	Tel
	✓170	2060	1158	1448	1463	1922	1158	
	×171	2070	1337	1808	1818	1904	1159	
	×172	2074	1414	1817	1832	1922	1156	
	×173	2059	1437	1813	1832	1922	1158	
20.8	✓174	2089	441	1756	1778	1938	1162	
	✓175	2079	473	1818	1822	1900	1148	
	✓176	2080	878	1657	1680	1943	1164	
	×177	2082	1119	1820	1828	1952	1153	
	✓178	2087	1229	1743	1743	1929	1153	
	✓179	2080	1346	1723	1727	1913	1158	
	×180	2071	1372	1792	1817	1912	1157	
	✓181	2078	1398	1709	1718	1917	1161	
21.0	✓182	2116	798	1632	1628	1923	1162	
	×183	2111	989	1803	1806	1927	1153	
	×184	2110	1160	1809	1794	1913	1148	
	×185	2111	1167	1800	1789	1907	1151	
	×186	2100	1200	1808	1832	1912	1150	
	×187	2112	1204	1827	1840	1925	1143	
21.2	✓188	2120	520	1628	1643	1938	1152	
	×189	2131	1061	1770	1771	1913	1147	
	×190	2128	1193	1804	1807	1914	1142	
	×191	2127	1213	1787	1789	1899	1146	
	✓192	2122	1241	1193	1199	1948	1139	
21.4	✓193	2100	357	1657	1641	1935	1137	
	✓194	2100	502	1299	1319	1932	1139	
	✓195	2152	531	1726	1738	1949	1143	
	×196	2140	623	1756	1808	1927	1138	
	×197	2140	760	1822	1843	1918	1132	
	×198	2141	1031	1837	1816	1908	1138	
	×199	2142	1041	1826	1836	1910	1138	

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1931phae.proj.1283M

Ce-Dk	Defl-Dk	Ce Defl	Mag.	Remarks
764	297	388	570 ✓	
745	654	877	off +	
766	668	873	off +	
764	664	869	off +	
776	605	780	830 ✓	
802	672	837	off ✓	
779	504	647	739 ✓	
799	671	839	off +	
767	590	768	820 ✓	
755	572	757	813 ✓	
755	647	856	off +	
756	543	719	785 ✓	
771	468	608	717 ✓	
774	651	840	off +	
765	654	855	off +	
756	643	850	off +	
762	670	881	off +	
782	651	834	off +	
786	484	615	720 ✓	
766	628	812	850 +	
772	664	861	off +	
753	643	854	off +	
809	57	70	250 ✓	
838	512	619	723 ✓	
793	170	214	450 ✓	
806	586	726	790 ✓	
789	640	811	849 +	
786	700	889	off +	
770	688	894	off +	
772	694	910	off x	

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1931phae.proj.126M

Alp RA 3980 – Jan 18, 1932.

Strip	Star	y	x	dyfl	dyfl Ce	dyfl	Pole
	×200	2140	1080	1792	1810	1902	1198
	✓201	2147	1198	1666	1678	1907	1142
	×202	2176	1298	1794	1811	1918	1149
	✓203	2148	1296	1760	1784	1920	1150
	✓204	2157	1363	1726	1753	1924	1139
	×205	2151	1384	1857	1839	1893	1137
	✓206	2150	1429	1707	1718	1896	1137
	×207	2149	1421	1757	1748	1890	1132
21.6	✓208	2160	607	1458	1452	1922	1136
	×209	2169	612	1772	1796	1926	1144
	×210	2170	643	1813	1834	1927	1142
	✓211	2168	671	1783	1754	1906	1142
	×212	2160	678	1829	1831	1910	1148
	×213	2160	769	1806	1821	1907	1148
	✓214	2170	832	1620	1626	1921	1144
	×215	2163	1174	1801	1832	1899	1143
	×216	2170	1233	1723	1772	1889	1152
	×217	2170	1347	1789	1806	1888	1138
	×218	2161	1397	1748	1774	1902	1143
	×219	2161	1413	1763	1790	1891	1143
	10	1973	963	1198	—	1832	1141
	1	1960	603	1290	—	1883	1148
	2	—	—	1448	—	1879	1141
	3	—	—	1507	—	1862	1148
	4	—	—	1442	—	1891	1149
	5	—	—	1518	—	1949	1144
	6	—	—	1588	—	1900	1144
	7	—	—	1651	—	1903	1149
	8	—	—	1718	—	1883	1144
	9	—	—	1799	—	1888	1151

510

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1931phae.proj.1282M

cl-Dk	Degl-Dk	Red Dyl	Mag.	Remarks
769	666	866	off +	
765	515	674	755 ✓	
769	653	847	off +	
770	622	806	846 ✓	
785	601	766	818 ✓	
756	711	940	off ✓	
756	575	760	814 ✓	
758	620	817	off +	*
789	322	408	587 ✓	
779	640	822	off +	
785	682	869	off +	
761	602	792	835 ✓	
762	682	896	off +	
759	666	877	off +	
777	478	616	722 ✓	
756	673	890	off +	
737	600	813	850 +	
750	660	880	off +	
759	618	815	850 +	
748	633	845	off +	
691	57	83	—	
735	142	193	—	
729	307	421	—	
714	359	503	—	
742	293	394	—	
805	374	463	—	
756	444	587	—	
754	502	665	—	
739	574	777	—	
737	648	880	—	

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1931phae.proj.128M

m.m. - RH 3780 - Jan. 18, 1932

trip	Stn	y	x	Dgl.	Dgl.	Cl.	Dk.	volts.
	ls	1913	963	1182		1878	1143	5.2
	1	1960	603	1299	—	1890	1140	
	2	—	—	1457	—	1872	1139	
	3	—	—	1480	—	1876	1142	
	4	—	—	1449	—	1908	1132	
	5	—	—	1502	—	1873	1135	
	6	—	—	1592	—	1891	1133	
	7	—	—	1628	—	1905	1139	
	8	—	—	1722	—	1878	1132	
	9	—	—	1781	—	1868	1128	
21.8	✓220	2185	649	1649	1678	1910	1147	
	×221	2185	650	1759	1773	1900	1147	
	✓222	2198	654	1822	1625	1910	1139	
	×223	2197	678	1769	1758	1910	1147	
	✓224	2196	848	1417	1447	1907	1147	
	✓225	2188	1025	1290	1307	1884	1140	
	✓226	2182	1278	1487	1510	1889	1132	
22.0	✓227	2211	766	1490	1498	1902	1140	
	✓228	2200	1211	1592	1588	1900	1132	
	×229	2205	1371	1771	1780	1880	1137	
22.2	×230	2235	522	1828	1805	1929	1149	
	✓231	2232	580	1568	1560	1922	1142	
	✓232	2221	690	1799	1804	1918	1132	
	✓233	2219	679	1699	1690	1904	1147	
	✓234	2237	1090	1604	1600	1917	1148	
	✓235	2228	1359	1762	1770	1932	1160	
22.4	✓236	2241	442	1787	1792	1962	1148	
	×237	2246	450	1829	1835	1933	1139	
	×238	2240	1190	1741	1761	1890	1132	
	×239	2245	1243	1765	1788	1885	1140	

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1931phae.proj.128M

Cl-Dk	Defl-Dk	Pd Defl	Mag.	Remarks
735	39	53	—	
750	159	212	—	
733	318	433	—	
734	338	461	—	
776	317	409	—	
738	367	497	—	
758	459	605	—	
766	489	639	—	
746	590	792	—	
740	653	882	—	
763	517	675	754 ↙	
753	619	823	off +	
771	485	628	720 ↙	
763	617	809	845 +	
760	285	375	552 ↙	
744	158	213	432 ↙	
757	366	483	624 ↙	
762	354	464	610 ↙	
768	458	595	700 ↙	
743	639	859	off +	
780	667	856	off +	
780	422	540	663 ↘ +	
786	670	853	off +	
757	547	722	784 ↓	
769	454	590	696 ↓	
772	606	785	822 ↓	
814	642	789	831 ↓	
794	693	873	off +	
758	619	817	850 +	
745	636	855	off +	

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1931phae.proj.1213M

RH3780

Strip	Star	y	x	Deff.	Deff.	Cl.	Dk.	volts.
	×240	2256	1328	1762	1760	1898	1138	
	241	2241	1333	1729	1737	1891	1146	
	✓242	2250	1350	1686	1719	1898	1137	
22.6	×243	2265	562	1798	1778	1920	1151	
	×244	2265	810	1783	1778	1887	1153	
	✓245	2261	1040	1690	1700	1892	1143	
	×246	2269	1324	1757	1767	1878	1149	
	✓247	2268	1330	1589	1606	1860	1142	
	✓248	2270	1350	1678	1683	1878	1155	
22.8	✓249	2282	658	1491	1508	1900	1138	
	✓250	2298	616	1717	1740	1913	1140	
P.S.R.	✓251	2283	675	1692	1712	1893	1150	
	×252	2282	1121	1817	1848	1893	1148	
	×253	2287	1142	1791	1805	1895	1140	
	✓254	2288	1321	1728	1737	1909	1148	
23.0	✓255	2319	467	1678	1695	1919	1143	
	✓256	2311	1028	1713	1736	1918	1140	
	×257	2302	1138	1788	1784	1913	1150	
	✓258	2308	1232	*1682	*1697	1900	1149	
23.2	×259	2339	508	1840	1840	1918	1142	
	×260	2338	516	1795	1796	1918	1135	
	×261	2327	530	1818	1822	1924	1139	
	✓262	2330	543	1808	1818	1923	1144	
	×263	2326	1127	1828	1845	1914	1149	
	×264	2321	1147	1796	1800	1920	1153	
	×265	2334	1215	1811	1835	1893	1148	
	×266	2322	1265	1780	1797	1918	1155	
	✓267	2326	1266	1848	1828	1913	1164	
	✓268	2329	1323	1508	1490	1925	1164	

*- Two stars overlapping.

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1931pMae.proj.128M

cl-Dk	Defl-Dk	Red Defl	mag.	Remarks
760	623	821	off +	
745	589	790	832 ✓	
761	565	743	798 ✓	
769	637	829	off +	
734	627	852	off +	
749	552	737	795 ✓	
729	613	840	off +	
718	456	634	724 ✓	
723	525	726	787 ⌋	
762	362	475	619 ✓	
773	588	761	811 ✓	
743	552	742	797 ✓	
745	684	919	off curve +	
755	658	873	off curve +	
761	584	766	814 ✓	
776	543	701	772 ✓	
778	584	750	804 ✓	
763	636	833	off curve +	
751	541	720	784 ✓	
776	698	900	off curve +	
783	661	843	off curve +	
785	681	868	off curve +	
779	669	858	off curve ✓	
765	687	899	off curve +	
767	645	842	off curve +	
745	675	906	off curve +	
763	633	831	off curve +	
749	614	900	~~864~~ off curve ✓	
761	335	440	595 ✓	

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1931phae.proj.1213M

P. L. R. – R. A. 3780 – Jan. 18, 1932

Strip	star	y	x	Dep.	Lag.	Ca.	Ch.	Volts
23.4	×269	2358	457	1805	1843	1950	1163	5.13
	×270	2350	470	1841	1840	1942	1174	
	×271	2354	509	1770	1782	1966	1170	
	×272	2351	549	1710	1722	1931	1158	
	×273	2358	1071	1812	1843	1933	1159	
	ls	1913	964	1219	—	1897	1150	
	1	1959	602	1319	—	1890	1163	
	2	—	—	1471	—	1877	1160	
	3	—	—	1505	—	1873	1150	
	4	—	—	1480	—	1912	1148	
	5	—	—	1539	—	1893	1164	
	6	—	—	1638	—	1913	1160	
	7	—	—	1648	—	1903	1167	
	8	—	—	1733	—	1897	1177	
	9	—	—	1813	—	1902	1169	5.12
		P. L. R. – R. A. 3780 – Jan. 19, 1932						
	ls	1915	994	1192	—	1962	1165	5.32
	1	1959	637	1357	—	1968	1156	
	2	—	—	1481	—	1952	1160	
	3	—	—	1518	—	1940	1163	
	4	—	—	1510	—	1956	1160	
	5	—	—	1583	—	1958	1178	
	6	—	—	1659	—	1972	1162	
	7	—	—	1691	—	2004 ±5	1182	
	8	—	—	1820	—	1999	1181	
	9	—	—	1898	—	2008	1186	5.31
23.6	×274	2372	519	1821	1844	2042	1186	
	×275	2362	570	1907	1938	2037	1189	
	×276	2372	617	1946	1968	2041	1193	
	×277	2371	838	1749	1764	2045	1190	

Galvanometer rather unsteady — very unsteady at times — reading slow

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1931phae.proj.1203M

Cl-Dk	Defl-Dk	Red Defl	Mag	Remarks
787	661	840	off curve +	
768	666	866	off curve +	
796	606	761	810 ✓	
773	558	722	784 ✓	
774	669	864	off curve +	
747	69	92	—	
727	156	214	—	
717	311	434	—	
723	355	490	—	
764	332	435	—	
729	375	515	—	
753	478	635	—	
736	481	653	—	
720	556	721	—	
733	644	876	—	
807	37	46	—	
812	201	248	—	
792	321	407	—	
777	355	457	—	
796	350	439	—	
780	405	520	—	
810	497	612	—	
822	509	620	—	
818	639	781	—	
822	712	866	—	
856	646	765	824 +	outside circle
848	733	865	off curve +	
848	764	900	off curve +	
855	566	662	762 ✓	

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1931phae.proj.1283M

P.S.R. – R.A. 3780 – Jan. 19, 1932

Trip	Star	x	y	Diff.	Diff.	Cl.	Dk.	Notes
23.6 (Cont.)	✓278	2376	909	1878	1906	2050	1187	5.30
	✓279	2374	1075	1916*	1930	2050	1176	
	✓280	2360	1310	1909	1923	2022	1167	
23.8	✓281	2387	565	1942	1910	2047	1158	
	✓282	2395	640	1439	1433	2027	1163	
	✓283	2396	737	1788	1799	2036	1178	
	✓284	2382	901	1917	1921	2047	1181	
	✓285	2397	1040	1940	1950	2031	1189	
	✓286	2388	1214	1386	1390	2023	1178	
24.0	✓287	2407	617	1887	1900	2043	1169	
	✓288	2408	745	1786	1795	2039	1174	
	✓289	2416	1164	1879	1907	2033	1169	
	✓290	2410	1206	1721	1719	2048	1179	
	✓291	2416	1270	1915	Too near line to read	2038	1180	
24.4	✓292	2447	631	1939	1935	2059	1178	
	✓293	2453	762	1944	1976	2044	1175	
	✓294	2440	1172	1581	1573	2045	1169	
	✓295	2454	1222	1892	Too near line to read	2043	1180	
24.6	✓296	2476	697	1892	1905	2038	1187	
	✓297	2467	893	1923	1952	2069	1184	
	✓298	2463	972	1768	1775	2057	1186	
	✓299	2470	1029	1829	1833	2040	1181	
24.8	✓300	2480	895	1826	1830	2036	1186	
	✓301	2485	1081	1386	1388	2046	1180	
25.0	✓302	2503	1106	1801	1812	2058	1168	* Blur star image in contact
25.2	✓303	2539	1014	1868	1893	2037	1170	
	1s	1914	993	1217	—	1978	1172	
	1	1959	632	1358	—	2010	1179	
	2	—	—	1516	—	1987	1176	
	3	—	—	1545	—	1977	1180	
	4	—	—	1521	—	2006	1178	
	5	—	—	1572	—	1990	1180	
	6	—	—	1672	—	2012	1177	
	7	—	—	1713	—	2029	1175	
	8	—	—	1802	—	1987	1156	5.28
	9	—	—	1874	—	1995	1172	

Plate finished

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1951phae.proj.12.2M

Cl-Dk	Defl-Dk	Red Defl	Mag.		Remarks.
863	705	816	off curve	✓	
874	747	854	off curve	+	
855	749	876	off curve	+	
889	778	875	off curve	+	
864	273	315	497	✓	
858	612	717	799	✓	
866	738	851	off curve	+	
842	756	898	off curve	+	
845	210	248	443	✓	
874	726	829	off curve	+	
865	616	711	795	✓	
864	724	836	off curve	+	
869	541	623	732	✓	
858	735	856	off curve	+	Only one deflection measurement
881	759	860	off curve	+	
869	785	903	off curve	+	
876	408	466	616	✓	
863	712	824	off curve	+	Only one deflection measurement
851	811	953	off curve	+	
885	754	853	off curve	+	
871	586	674	770	✓	
859	650	757	824	✓	
850	642	754	823	✓	
866	207	239	434	✓	
890	638	717	800	✓	
867	712	822	off curve	✓	
806	45	56			
831	179	216			
811	340	418			
797	365	457			
828	343	414			
810	392	484			
835	495	593			
854	538	630			
831	646	775			
823	702	852			

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1931phae.proj.12RM

Strip	Star	y	x	Dyc	Dyll	cc	dk	Volts
	1s				—			
	1				—			
	2	—	—		—			
	3	—	—		—			
	4	—	—		—			
	5	—	—		—			
	6	—	—		—			
	7	—	—		—			
	8	—	—		—			
	9	—	—		—			

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1931phae.proj..128M

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1931phae.proj.1283M

m.m. — RH 3529 — Feb. 18, 1932.

Strip	Star	y	x	Dyf	Dyf	cc	Dk	Volts
	1s	1937	962	479	—	1913	413	5.25
	1	1875	604	899	—	1982	421	
	2	—	—	1085	—	1952	419	
	3	—	—	1187	—	1964	428	
	4	—	—	1239	—	1995	426	
	5	—	—	1302	—	1972	429	
	6	—	—	1398	—	1969	422	
	7	—	—	1562	—	1972	426	
	8	—	—	1728	—	1965	422	
14.6	1	1471	986	1641	1638	1961	435	
15.4	2	1545	1015	1241	1239	1930	418	
15.6	3	1570	592	1758	1767	1955	428	
	4	1569	861	1771	1772	1951	439	
	5	1575	976	1781	1798	1944	431	
	6	1570	1193	1841	1331	1949	436	
15.8	7	1594	982	1741	1729	1933	429	
	8	1588	1091	1595	1623	1913	420	
P.P.R.	9	1594	1282	1089	1083	1953	431	
16.0	10	1615	627	1863	1863	1951	433	
	11	1617	1084	1526	1523	1935	433	
16.2	12	1639	525	540	1762	1990	436	
16.4	13	1649	542	1809	1770	1947	435	
	14	1646	1213	1606	1603	1963	462	
	15	1654	478	1677	1681	1956	460	
	16	1658	600	1629	1629	1973	439	
16.6	17	1669	1017	1570	1567	1930	444	
	18	1672	720	1588	1577	1929	438	
	19	1677	1280	1533	1514	1939	438	
16.8	20	1682	1085	1464	1413	1918	439	
	21 a	1680	1226	1777	1781	1923	427	
	a1 b	1690	1359	1736	1708	1917	437	5.24

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1931phae.proj.1283M

Cl.-Dk.	Diff.-Dk.	Dk. Diff.	magn.	Remarks
1500	66	44	—	
1561	478	331	—	
1533	676	442	—	
1536	759	495	—	
1559	813	522	—	
1543	873	566	—	
1547	976	631	—	
1546	1126	728	—	
1543	1306	847	—	
1526	1205	791	793	
1512	822	544	605	
1527	1334	874	857	
1512	1333	881	off curve	
1513	1359	896	off curve	
1513	900	594	644	
1504	1306	867	854	
1493	1189	795	798	
1522	655	432	515	
1518	1430	942	off curve	
1502	1091	727	749	
1554				
1509	1352	891	870	
1501	1142	761	773	
1496	1219	815	812	
1534	1190	775	783	
1486	1124	758	771	
1491	1144	767	777	
1501	1088	729	750	
1485	1006	677	710	
1501	1357	903	off curve	
1495	1290	864	850	

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1931phae.proj.128M

P. S. R. – R. A. 3529 – Feb. 18, 1932

Trip	Star	y	x	Dleft	Dleft	Cc	Ck	Volts
17.0	22	1705	580	1748	1737	1941	439	5.24
	23	1704	1343	1758	1750	1930	441	
	24	1703	1358	1263	1259	1928	440	
	25	1713	1382	1807 1733	1809 1733	2027 1937	463 462	(Measured twice)
	26	1713	1230	1833	1815	1918	457	
	15	1938	962	562	—	1916	466	
	1	1877	604	995	—	1973	463	
	2	—	—	1160	—	1919	463	
	3	—	—	1213	—	1936	467	
	4	—	—	1310	—	1969	463	
	5	—	—	1307	—	1928	466	
	6	—	—	1492	—	1926	475	
	7	—	—	1536	—	1980	504	
	8	—	—	1750	—	1977	512	
	9	—	—	1870	—	1985	508	5.23
	R.A. 3529 – Feb. 18, 1932							5.10
	10	1938	962	504	—	1803	408	
	1	1877	604	901	—	1943	429	
	2	—	—	1082	—	1913	432	
	3	—	—	1133	—	1911	428	
	4	—	—	1210	—	1947	442	
	5	—	—	1237	—	1927	440	
	6	—	—	1420	—	1937	451	
	7	—	—	1000	—	1947	447	
	8	—	—	1688	—	1943	438	
17.2	27	1720	816	1794	1814	1932	443	
	28	1731	1378	1510	1490	1957	462	
17.4	29	1751	632	1698	1670	1952	442	
	30	1739	694	1241	1243	1933	442	
	31	1740	727	1712	1728	1927	438	

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1991phae.proj.1283M

Cl.-Dk.	Defl.-Dk.	Red. Defl.	Magn.	Remarks
1502	1303	867	~~854~~	
1489	1313	883	off curve	
1488	821	553	613	
1564	1345	860		
1475	1271	862	848	
1461	1367	935	off curve	
1450	96	66	—	
1510	692	459	—	
1456	697	478	—	
1469	746	508	—	
1506	847	563	—	
1462	841	576	—	
1451	1017	700	—	
1476	1032	701	—	
1465	1238	844	—	
1477	1362	930	—	
1305	96	73	—	
1514	472	312	—	
1481	650	438	—	
1483	705	476	—	
1505	768	510	—	
1487	797	537	—	
1486	969	652	—	
1500	1053	702	—	
1505	1250	831	—	
1499	1361	917	off curve	
1525	1068	700	747	
1510	1242	824	821	
1491	800	537	637	
1489	1282	862	843	

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1931phae.proj.12RM

HgP – RX 3529 – Feb. 18, 1932.

Mags	Star	Y	X	Diff	Diff	Cc	Dk	Volts
	32	1738	858	1227	1229	1937	452	
	33	1747	1019	1467	1507	1922	447	
	34	1740	1037	1522	1517	1916	450	
	35	1740	1118	1414	1410	1948	442	
17.6	36	1767	743	1833	1792	1937	443	
	37	1760	945	1558	1547	1900	432	
	38	1771	989	1782	1777	1937	455	
	39	1773	1345	958	940	1950	437	
	40	1766	1371	960	990	1904	448	
	41	1769	1411	1600	1602	1936	447	
18.0	42	1796	1250	1750	1722	1863	469	
18.0	43	1811	1400	858	822	1810	482	
18.2	44	1820	860	1123	1162	1880	463	
18.4	45	1846	1076	1283	1257	1903	473	
	46	1836	1236	1642	1642	1942	498	
	47	1840	1308	1724	1738	1963	492	
	48	1853	1312	1414	1420	1944	498	
	49	1840	1434	1314	1324	1921	493	
18.6	50	1856	678	1670	1648	1963	500	
18.8	51	1884	677	1708	1706	1977	507	
	52	1890	1152	1727	1757	1970	518	
	53	1881	1286	1198	1149	1977	512	
19.0	54	1910	987	1537	1552	1980	514	
	55	1902	1380	1517	1514	2001	522	
	56	1913	1383	1184	1152	1942	512	
	57	1900	1404	1706	1673	1987	518	
19.2	58	1928	371	1707	1692	1996	523	
	59	1930	441	1715	1720	2008	521	
	60	1928	1280	1600	1612	1981	514	
	61	1921	1428	1722	1680	1972	507	

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1931phae.proj.126M

Cl.-Dk.	Dep.-Dk.	Red. Dep.	Magn.	Remarks
1483	776	524	628	
1475	1040	705	750	
1466	1070	730	764	
1506	970	647	714	
1494	1369	915	off curve	
1468	1100	758	775	
1482	1325	893	861	
1513	512	340	483	
1456	527	363	502	
1489	1154	776	793	
1394	1367	980	off curve	
1328	358	269	427	
1417	679	479	595	
1430	800	559	654	
1444	1144	793	803	
1471	1239	842	832	
1446	919	635	706	
1428	826	578	667	
1463	1159	792	802	
1460	1190	815	816	
1452	1224	843	833	
1465	664	452	573	
1466	1030	703	748	
1478	994	672	728	
1430	656	459	579	
1469	1172	800	806	
1473	1177	798	805	
1487	1197	805	809	
1467	1092	745	774	
1465	1194	815	816	

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1931phae.proj.12:3M

Dif-RX 3029- Feb. 18, 1932

Strip	Star	Y	X	dyll	dyll	ce	ck	Volts
	62	1930	1463	937	909	1972	522	
	1*	1938	962	618		1950	518	525
	1	1877	604	918	—	2000	507	
	2	—	—	1112	—	1943	511	
	3	—	—	1204	—	1939	508	
	4	—	—	1228	—	1983	523	
	5	—	—	1247	—	1967	530	
	6	—	—	1438	—	1982	540	
	7	—	—	1522	—	1993	518	
	8	—	—	1760	—	1972	510	

Continued on page 158.

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1934phae.proj.1203M

a-Dt.	Dcfl.-Dk.	Red. Dcfl.	Magn.	Remarks
1450	401	276	434	
1432	100	70	—	
1493	411	275	—	
1432	601	420	—	
1425	696	489	—	
1480	725	490	—	
1437	717	500	—	
1442	898	624	—	
1475	1004	680	—	
1462	1250	855	—	

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1931phae.proj.128M

m.m - RH 3635 - Feb. 19, 1932

Renumbering of strips from 21.6 to end of plate

Strip	Star	y	x	Deff.	Deff.	Cl.	Dk.	volt
	1s	1920	936	382		1121	407	
	1	1921	572	440		1158	441	
	2	—	—	503	—	1139	440	
	3	—	—	528	—	1152	449	
	4	—	—	541	—	1187	466	
	5	—	—	602	—	1192	479	
	6	—	—	676	—	1212	503	
	7	—	—	843	—	1218	507	
	8	—	—	1020	—	1229	517	
21.6	237	2160	570	1028	1031	1209	512	
	238	2176	607	858	858	1200	519	
	239	2159	790	878	810	1191	528	
	240	2177	982	552	532	1192	500	
	241	2170	1235	623	602	1262	518	
21.8	242	2190	614	883	848	1284	525	5,17
	243	2188	635	1080	1111	1282	535	
	244	2188	805	608	612	1303	537	
	245	2189	1170	772	763	1317	539	
	246	2192	1209	1216	1203	1317	529	
	247	2192	1329	1157	1118	1322	519	
22.0	248	2204	725	617	608	1288	520	
	249	2201	1184	1123	1120	1317	513	
	250	2213	549	1126	1129	1284	508	
	251	2210	637	903	880	1231	481	
	252	2215	1317	1032	1057	1253	491	
22.2	253	2227	480	1096	1090	1258	487	
	254	2223	538	680	674	1210	469	
	255	2227	1048	730	707	1262	482	
	256	2229	1147	1075	1060	1255	495	
	257	2230	1292	1101	1084	1286	503	5,12

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1934phae.proj.1203M

Cl.-Dk.	Dzl.-Dk.	Red. Dzl.	Magn.	Remarks
714	—	—	—	
717	—	—	—	
699	63	90	—	
703	79	113	—	
721	75	104	—	
713	123	173	—	
709	173	244	—	
711	336	473	—	
712	503	706	—	
687	518	356	746	
681	339	497	790	
663	316	476	784	
692	42	61	505	
744	94	126	595	
759	341	449	776	
747	570	762	861	
766	73	95	556	
778	229	294	720	
788	681	864	off curve	
803	619	770	863	
768	92	120	588	
804	609	757	859	
776	620	798	off curve	
750	411	547	803	
762	543	713	847	
771	606	786	off curve	
741	208	280	713	
770	236	306	727	
760	563	740	854	
783	589	753	858	

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1931phae.proj.128M

P.S.R. - R.A. 3635 - Feb. 19, 1932

Strip	Star	y	x	Diff.	Diff.	Cl.	Obs.	Volts
22.2	258	2234	313	1642	1062	1297	507	5.12
	259	2233	400	1100	1112	1298	501	
	260	2237	419	1173	1140	1298	502	
	261	2233	1200	1145	1158	1298	503	
	262	2238	1309	932	930	1284	493	
	1s	1920	936	486	—	1278	496	
	1	1922	572	578	—	1287	499	
	2	—	—	598	—	1250	497	
	3	—	—	599	—	1278	503	
	4	—	—	601	—	1263	499	
	5	—	—	634	—	1282	508	
	6	—	—	722	—	1293	492	
	7	—	—	663	—	995	493	
	8	—	—	816	—	1018	498	
	9	—	—	914	—	1015	503	5.10

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1931phae.proj.1203M

α.-Dk	Dege.-Dk.	Red. Defl.	Magn.	Remarks
790	510	645	828	
797	605	760	860	
796	654	820	offcurve	
795	649	815	offcurve	
791	438	555	804	
782	—	—	—	
788	— 19	24	—	
753	101	134	—	
775	96	124	—	
764	102	134	—	
777	126	163	—	
801	230	287	—	
502	170	338	—	
520	318	612	—	
512	411	804	—	

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1931phae.proj.1283M

O.C.R. – R.A. 3635 – Feb. 29, 1932

Strip	Star	y	x	Diff.	Diff.	Q.	Bk.	Obs
Read in reverse order	15	1920	944	533	—	1254	531	5.16
	1	1922	580	550	—	1277	526	
	2	—	—	622	—	1232	530	
	3	—	—	638	—	1268	533	
	4	—	—	622.	—	1267	522	
	5	—	—	658	—	1267	534	
	6	—	—	757	—	1264	529	
	7	—	—	773	—	1262	525	
	8	—	—	997	—	1260	524	
	9	—	—	1120	—	1262	528	
22.4	267	2245	1295	1148	1160	1410	545	Galvanometer getting [illegible] erratic
	263	2257	529	1137	1160	1313	534	
	264	2254	775	1155	1157	1289	536	
	265	2250	1007	1115	1079	1422	550	
	266	2258	1290	1248	1213	1412	562	
	268	2255	1295	917	892	1418	569	
	269	2258	1316	1103	1074	1400	568	
22,6	270	2275	524	728	710	1417	553	
	271	2275	642	1088	1059	1410	543	
	272	2275	1110	1298	1293	1458	551	
	273	2275	1288	1073	1058	1390	537	
	15	1920	944	546	—	1383	547	
	1	1923	580	547	—	1393	548	
	2	—	—	602	—	1353	538	
	3	—	—	604	—	1380	540	
	4	—	—	619	—	1376	530	
	5	—	—	705	—	1410	539	
	6	—	—	800	—	1403	543	
	7	—	—	852	—	1396	550	
	8	—	—	1073	—	1406	548	
	9	—	—	1260	—	1409	540	5.13

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1931phae.proj.128M

Cl.-Dk.	Defl-Dk.	Red. Defl.	Magn.	Remarks
723	2	3	—	
751	24	32	—	
702	92	131	—	
735	105	149	—	
745	100	134	—	
733	124	169	—	
735	228	310	—	
737	248	336	—	
736	473	641	—	
734	592	806	—	
865	609	704	858	
779	614	786	off curve	
753	620	825	off curve	
872	547	627	833	
850	668	785	off curve	
849	335	394	754	
832	520	625	833	
864	166	192	653 ✓	
867	531	612	828 ✓	
907	745	820	off curve	
853	529	620	832 ✓	
836	—	—	—	
845	—	—	—	
815	64	78	—	
840	64	76	—	
846	89	105	—	
871	166	190	—	
860	257	299	—	
846	302	356	—	
858	525	611	—	
869	720	828	—	

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1931phae.proj.12RM

Zp - RA 3635 - Feb. 20, 1932

Temp	Star	Y	Δ	Diff	Diff	Cl	Dk	Volts
	1A	1920	846	508	2	1337	528	575
	1	1921	571	568	—	1368	527	
	2	—	—	598	—	1358	542	
	3	—	—	626	—	1357	537	
	4	—	—	614	—	1390	530	
	5	—	—	691	—	1387	530	
	6	—	—	862	—	1370	540	
	7	—	—	863	—	1388	522	
	8	—	—	1102	—	1368	550	
22.8	9	—	—	1247	—	1382	547	
	274	2277	427	761	768	1414	548	
	275	2290	483	1208	1177	1417	558	
23.0	✓276	2312	332	1073	1027	1417	537	
	277	2301	897	1137	1112	1383	551	
	278	2311	1132	1228	1198	1383	546	
23.2	279	2330	403	1271	1260	1399	557	
	✓280	2318	1191	708	718	1393	560	
23.4	✓281	2348	378	1179	1163	1396	554	
	✓282	2343	418	1102	1079	1390	552	
23.6	283	2367	357	1164	1092	1413	563	
	✓284	2362	678	1000	1054	1383	551	
	285	2367	748	1226	1232	1412	562	
23.8	286	2391	368	1179	1162	1418	558	
	287	2378	480	652	666	1422	561	
	288	2389	564	1142	1113	1387	540	
	✓289	2347	1052	608	608	1399	553	
24.0	290	2400	454	1258	1228	1398	552	
	✓291	2400	582	1129	1089	1378	554	
	✓292	2400	1044	986	963	1402	547	
24.2	✓293	2430	1011	818	778	1387	549	

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1931phae.proj.128:M

Cl-Dk	Degg-Dk.	Rel. Defl.	Magn.	Remarks
809	—	—	—	
841	41	49	—	
816	56	69	—	
820	86	105	—	
860	84	97	—	
857	161	188	—	
830	322	388	—	
866	341	393	—	
818	552	674	—	
835	700	837	—	
866	216	249	672	
859	634	736	843	
880	513	582	790	
832	573	687	825	
836	667	797	864	
842	709	841	off curve	
833	153	183	638	
842	617	732	842	
838	538	642	807	
860	575	668	818	
832	479	576	788	
850	667	785	860	
860	612	711	834	
861	98	114	588	
847	588	695	828	
846	55	65	513	
841	688	819	off curve	
819	555	678	822	
865	421	493	762	
838	249	296	694	

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1931phae.proj.1213M

2 gp - RH 3635 - Feb. 20, 1932.

Strip	Star	y	x	diff	diff	cc	clk	Volts
24.4	294	2452	811	1052	1023	1402	552	
24.6	295	2467	537	1232	1243	1392	552	
	296	2470	735	1113	1078	1401	564	
	297	2460	868	1174	1164	1392	562	
	298	2472	921	612	623	1397	546	
24.8	299	2491	946	1137	1113	1388	553	580
	1A	1920	846	560	—	1380	548	
	1	1921	571	580	—	1414	544	
Plate	2	—	—	621	—	1384	562	
Limited	3	—	—	608	—	1377	544	
	4	—	—	668	—	1411	542	
	5	—	—	732	—	1414	557	
	6	—	—	847	—	1402	567	
	7	—	—	918	—	1412	564	
	8	—	—	1196	—	1422	563	
	9	—	—	1263	—	1396	560	

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1931phae.proj.128M

Cl.-Dk	Dgl.-Dk.	Red. Dgl.	Magn.	Remarks
850	486	573	787	
840	686	817	off curve	
837	532	636	806	
830	607	730	841	
851	72	85	550	
835	572	685	824	
832	12	14	—	
870	36	41	—	
822	59	72	—	
833	64	77	—	
869	126	145	—	
857	175	204	—	
835	280	335	—	
848	344	405	—	
869	633	728	—	
836	703	840	—	

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1931phae.proj.1213M

P.S.R. - RH 3529 - Feb. 23, 1932.

Exp	Star	y	x	Diff	Diff	cc	dk	Volts
	1s	1937	932	638	—	1569	447	5.22
	1	1876	574	937	—	1628	464	
	2	—	—	1074	—	1702	485	Galvanometer
	3	—	—	1220	—	1763	493	ratio
	4	—	—	1268	—	1792	499	wild.
	5	—	—	1332	—	1778	507	
	6	—	—	1363	—	1750	503	
	7	—	—	1417	—	1760	502	
	8	—	—	1610	—	1770	510	
	9	—	—	1667	—	1753	482	Measured in reverse order
14.6		1460	820	1658	1662	1750	488	
		1460	937	1647	1647	1767	490	
		1471	955	1524	1523	1757	491	Galvanometer
15.2		1530	783	1663	1669	1740	505	improving
15.4		1542	984	1268	1277	1720	490	
15.6		1570	562	1605	1607	1767	490	
		1569	829	1621	1632	1780	486	
		1570	1163	1262	1282	1823	482	
		1572	945	1651	1647	1783	470	
15.8		1592	951	1702	1702	1898	489	
	1s	1938	933	594	—	1872	485	
	1	1876	573	917	—	1886	478	
	2	—	—	1053	—	1873	470	
	3	—	—	1092	—	1866	479	
	4	—	—	1243	—	1910	487	
	5	—	—	1307	—	1907	479	
	6	—	—	1382	—	1890	477	
	7	—	—	1444	—	1892	478	
	8	—	—	1677	—	1878	490	
	9	—	—	1771	—	1892	492	5.19

Already measured

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1931phae.proj.128M

Cl.-Dk.	Defl.-Dk.	Red. Defl.	Magn.	Remarks
1122	191	170		
1164	473	407		
1237	589	476		
1270	727	543		
1293	769	593		
1271	825	648		
1247	860	689		
1258	915	727		
1260	1100	876		
1277	1157	904		
1266	1013	801		
1235	1161	940		
1230	782	635		
1277	1116	873		
1294	1140	882		
1341	790	589		
1313	1179	897		
1409	1213	862		
1384	109	79		
1408	439	311		
1403	583	415		
1387	613	442		
1423	756	532		
1428	828	580		
1413	905	640		
1414	966	684		
1388	1187	854		
1400	1279	911		

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1931phae.proj.1213M

P.S.R. – R.A. 3529 – Feb. 24, 1932

Strip	Star	y	x	Dyge	Dyfl.	Cl.	Dk	wt.
	15	1937	956	666	—	1936	527	5.09
	1	1877	597	1166	—	1993	530	
	2	—	—	1300	—	2010	517	
	3	—	—	1342	—	2006	534	
	4	—	—	1467	—	2041	528	
	5	—	—	1512	—	2023	530	
	6	—	—	1610	—	2030	551	
	7	—	—	1653	—	2058	552	
	8	—	—	1843	—	2018	542	
	9	—	—	1920	—	2020	543	
16.0		1645	620	1952	1952	2038	558	
		1617	1077	1593	1590	2019	540	
16.4		1640	519	1790	1805	2030	541	
		1650	536	1879	1834	2032	552	
		1647	1208	1724	1711	2118	547	
		1655	470	1762	1762	2053	562	
		1658	593	1685	1680	2028	561	
16.6		1670	1010	1632	1618	2017	530	
		1672	713	1635	1632	2006	528	
		1675	1274	1597	1593	1998	541	
m.m.	continued from page 144							5.06
19.4	63	1956	454	1228	1222	2059	533	
	64	1952	486	1621	1597	2018	546	
	65	1951	1033	1410	1402	2008	542	
	66	1949	1112	1797	1782	2010	537	
	67	1953	1149	1821	1843	2019	535	
19.6	68	1961	1017	1757	1731	2052	555	
	69	1964	1213	1643	1640	2048	552	
19.8	70	1993	828	1771	1795	2070	563	
	71	1990	1258	1789	1784	2052	572	

Already measured

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1931phae.proj.128M

Cl.-Dk.	Defl.-Dk.	Red. Defl.	Magn.	Remarks
1409	139	98		
1433	636	447		
1493	783	525		
1452	808	556		
1513	939	621		
1493	982	658		
1479	1069	723		
1406	1101	783		
1476	1301	881		
1477	1377	932		
1480	1394	942		
1479	1052	712		
1489	1257	843		
1480	1304	881		
1571	1171	746		
1491	1200	805		
1467	1121	765		
1487	1095	736		
1478	1106	748		
1457	1054	723		
1526	682	447	476	
1472	1063	723	691	
1466	864	590	578	
1473	1253	850	799	
1484	1297	873	817	
1491	1189	794	753	
1496	1090	730	698	
1507	1220	812	766	
1480	1214	820	774	

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1931phae.proj.1283M

m.m. – RH 3529 – Feb. 24, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volts
	72	1989	1421	1765	1747	2100	589	
	73	1994	1491	1661	1681	2052	576	
	½	1937	956	730	—	2049	556	
	1	1877	597	1181	—	2088	561	
	2	—	—	1352	—	2042	579	
	3	—	—	1451	—	2045	571	
	4	—	—	1496	—	2051	577	
	5	—	—	1547	—	2041	581	
	6	—	—	1639	—	2056	572	
	7	—	—	1673	—	2041	562	
	8	—	—	1861	—	2009	549	5.00

P.S.R. – R.H. 3529 – Feb. 25, 1932

	15	1938 –	968	510	—	1758	480	5.27
	1	1875	610	688	—	1793	478	
	2	—	—	922	—	1792	477	
	3	—	—	961	—	1810	500	
	4	—	—	976	—	1857	512	
	5	—	—	1092	—	1820	507	
	6	—	—	1137	—	1814	493	
	7	—	—	1137	—	1830	513	
	8	—	—	1567	—	1836	522	
	9	—	—	1698	—	1845	514	
20.0	74	2007	871	1348	1307	1860	520	
20.2	75	2027	862	1431	1432	1856	534	
20.4	76	2052	521	1709	1695	1874	547	
	77	2048	940	1688	1662	1831	533	
	78	2048	1218	720	737	1842	532	
	79	2053	765	1637	1633	1868	550	5.26
	80							

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1931phae.proj.128M

α.-Dt.	Defl.-Dt.	Red. Defl.	magn.	Remarks
1511	1161 ~~1176~~	778	735	
1476	1095 1085	743	707	
1493	174	117	—	
1527	620	407	—	
1463	773	528	—	
1474	880	597	—	
1474	919	623	—	
1460	966	664	—	
1484	1067	717	—	
1479	1111	753	—	
1460	1312	899	—	
1278	30	24	—	
1315	210	160	—	
1315	445	339	—	
1310	461	352	—	
1345	464	345	—	
1313	585	446	—	
1321	644	486	—	
1317	624	474	—	
1314	1045	795	—	
1329	1182	890	—	
1340	818	610	780	
1322	898	680	804	
1332	1160	870	867	
1298	1142	880	effuse	
1310	196	149	446	
1318	1085	825	853	

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1931phae.proj.1283M

P.S.R. - R.A. 3529 - Feb. 25, 1932.

Strip	Star	y	x	Diff.	Diff.	Cl	Dk	Volts
20,6	V81	2069	397	931	947	1892	527	5,2C
	V82	2068	505	777	767	1870	524	
	V83	2068	1183	1518	1511	1857	548	
	V84	2068	1465	1420	1407	1852	537	
	V85	2073	1327	1272	1265	1863	532	
20,8	V86	2083	932	1407	1406	1859	532	Galvanometer becoming jumpy
	V87	2080	1351	1635	1654	1833	538	
	V88	2090	1352	831	799	1813	500	
	V89	2098	538	1241	1233	1811	500	
	V90	2097	970	1660	1654	1820	523	
	V91	2093	1309	1077	1062	1840	515	
	V92	2098	1494	1673	1659	1823	523	
	15	1937	969	532	—	1862	512	
	1	1876	610	636	—	1853	509	
	2	—	—	813	—	1860	517	
	3	—	—	864	—	1857	512	
	4	—	—	830	—	1900	492	
	5	—	—	946	—	1847	498	
	6	—	—	1063	—	1862	513	
	7	—	—	1075	—	1881	508	
	8	—	—	1537	—	1898	509	
	9	—	—	1707	—	1882	517	5,24
	Strip - B7	3529 -	Feb. 25,	1932				520
	15	1938	938	547	—	1938	408	
	1	1877	580	893	—	2007	429	
	2	—	—	1068	—	1992	408	
	3	—	—	1120	—	1993	406	
	4	—	—	1230	—	2056	427	
	5	—	—	1318	—	2017	418	
	6	—	—	1470	—	2007	408	
	7	—	—	1517	—	2036	402	

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1931phae.proj:1283M

Cl.-Dk	Defl.-Dk.	Rel. Defl.	Magn.	Remarks.
1365	413	302	610	
1346	248	184	490	
1309	966	740	823	
1315	877	667	800	
1331	736	554	758	
1327	874	658	797	
1295	1106	855	863	
1313	315	240	554	
1311	737	563	762	
1297	1134	875	off curve	
1325	555	418	692	
1300	1143	880	off curve	
1350	20	15	off curve	
1344	127	95	—	
1343	296	220	—	
1345	352	262	—	
1408	338	240	—	
1349	448	333	—	
1349	550	407	—	
1373	567	414	—	
1389	1028	740	—	
1365	1190	871	—	
1530	139	91	—	
1578	464	294	—	
1584	660	417	—	
1587	714	450	—	
1629	803	494	—	
1699	900	564	—	
1599	1062	665	—	
1634	1115	682	—	

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1931phae.proj.1283M

2 Jc - RH 3529 - Feb. 25, 1932.

Strip	Star	Y	D	Diff	Diff	cc	dk	Volts
	8	L	—	1708	—	2013	393	
21.0	93	2101	447	1842	1793	2053	389	
	94	2100	509	1623	1596	2062	389	
	95	2105	566	1685	1682	2060	408	
	96	2107	682	1806	1800	2069	397	
	97	2104	758	1619	1598	2064	408	
	98	2103	813	1873	1866	2050	404	
	99	2102	1233	863	950	2049	398	
	100	2092	1278	1402	1437	2010	407	
	101	2108	1279	1493	1476	2048	390	
21.2	102	2114	898	1547	1562	2053	397	
21.4	103	2156	375	1558	1522	2088	452	
	104	2160	576	1892	1907	2072	447	
	105	2144	730	1850	1838	2057	422	
	106	2140	1209	1048	1037	2023	422	
	107	2139	1379	1609	1588	1983	418	
	108	2163	1144	1091	1069	2031	427	
21.6	109	2160	576	1863	1846	2037	422	
	110	2170	639	1644	1619	2039	422	
	111	2161	690	1388	1373	2053	420	
	112	2178	916	983	990	2007	427	
	113	2170	930	1243	1209	2022	436	
	114	2160	1235	928	892	2024	423	
	115	2160	1933	1464	1473	2004	427	
21.8	116	2190	604	1068	1062	2037	420	
22.0	117	2211	750	1112	1122	2032	442	
	118	2208	864	1708	1713	2001	431	
	119	2211	1089	1098	1023	1993	432	
	120	2202	1357	1002	970	2040	430	
	121	2211	1355	742	753	2039	434	

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1931phae.proj.128M

Cl.-Dk.	Deff.-Dk.	Red. Deff.	Magn.
1620	1315	811	—
1664	1439	865	864
1673	1211	725	765
1652	1276	773	800
1672	1406	840	846
1664	1208	725	765
1646	1466	890	offcurve
1656	514	310	446
1603	1013	633	697
1658	1094	660	717
1656	1157	698	747
1636	1088	665	721
1625	1453	895	offcurve
1635	1422	870	offcurve
1601	620	387	506
1570	1185	755	786
1604	653	407	524
1615	1432	887	offcurve
1617	1210	750	783
1633	960	587	663
1580	559	354	480
1589	793	499	599
1601	487	304	442
1577	1041	661	717
1617	645	400	517
1590	675	425	538
1569	1279	815	829
1561	628	403	519
1610	556	346	476
1605	314	196	356

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1931phae.proj.128M

Zgs - RH 3529 - Feb. 25, 1932

Exp	Star	Y	X	Diff	Diff	cc	dk	Volts
22.2	✓122	2230	366	1873	1862	2032	442	
	✓123	2290	513	1680	1648	2060	422	
	✓124	2221	588	1643	1737	2030	438	
	✓125	2216	597	1384	1393	2038	458	
	✓126	2230	606	1627	1643	2050	440	
	✓127	2229	648	1770	1722	2050	422	
	✓128	2230	742	1783	1757	1983	439	
	✓129	2217	1126	1573	1620	2050	448	
	1s	1938	938	520	—	2014	447	
	1	1877	580	948	—	2037	436	
	2	—	—	1082	—	2014	441	
	3	—	—	1142	—	2000	467	
	4	—	—	1212	—	2052	452	
	5	—	—	1294	—	2020	458	
	6	—	—	1357	—	2005	433	
	7	—	—	1537	—	2037	457	
	8	—	—	1747	—	1983	427	
								510

m.m. - RH 3529 - Feb. 26, 1932 — 516

	1s	1938	959	541		1851	424
	1	1877	601	973		1848	442
	2	—	—	1177		1838	453
	3	—	—	1259		1882	458
	4	—	—	1361		1902	463
	5	—	—	1417		1899	469
	6	—	—	1487		1897	448
	7	—	—	1569		1898	462
	8	—	—	1748	—	1887	470
22.4	130	2246	404	1619	1583	1912	463
	131	2240	461	1616	1610	1932	472

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1931phae.proj.1283M

α.–Dk.	Decl.–Dk.	Red. Decl.	Magn.	Remarks
1590	926	584	662	
1638	1242	760	790	
1592	1252	785	807	
1583	938	593	666	
1610	1195	741	776	
1618	1314	813	827	
1544	1331	864	862	
1602	1146	715	758	
1551	73	47	—	
1604	515	322	—	
1573	641	407	—	
1533	675	440	—	
1600	760	475	—	
1562	836	536	—	
1567	924	590	—	
1580	1080	685	—	
1556	1320	848	—	
1427	117	82	—	
1406	531	378	—	
1385	724	524	—	
1424	801	564	—	
1439	898	626	—	
1430	948	664	—	
1449	1039	717	—	
1436	1107	772	—	
1417	1278	902	—	
1449	1138	785	753	
1460	1141	783	751	

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1931phae.proj.1283M

m.m. – RH 3529 – Feb. 26, 1932

Strip	Star	y	x	Degl.	Degl.	Cl.	Dk.	volt.
	132	2250	570	1746	1733	1922	472	
	133	2239	602	1701	1698	1929	473	
	134	2239	1132	1738	1708	1931	491	
	135	2252	1223	1697	1646	1934	501	
	136	2251	1356	1741	1735	1942	502	
22.6	137	2272	538	1499	1489	1948	505	
	138	2283	600	1809	1804	1949	480	
	139	2276	726	1662	1659	1923	500	
	140	2271	762	1770	1779	1935	492	
	141	2275	775	1351	1342	1918	491	
	142	2278	858	1401	1398	1921	492	
	143	2272	1023	1491	1479	1923	502	
	144	2259	1392	991	988	1938	503	
22,8	P.S.R. 145	2280	598	1770	1762	1918	493	5.11
	146	2289	619	1733	1722	1928	484	
	147	2278	1413	1124	1129	1938	487	
	148	2297	590	1173	1166	1860	486	
	149	2298	923	1750	1743	1869	498	
23,0	150	2318	493	1667	1690	1892	498	
	151	2316	552	1728	1732	1878	502	
	152	2316	816	1724	1708	1907	504	
	153	2318	1096	1637	1643	1901	507	
	154	2319	1141	1752	1738	1891	498	
23,2	155	2324	569	1595	1488	1863	495	
	156	2331	570	1462	1468	1869	483	
	157	2320	570	1613	1602	1877	493	
	158	2322	620	1287	1278	1863	483	
	159	2330	1139	1602	1583	1892	490	
	160	2326	1257	1689	1672	1906	483	
	161	2337	604	1423	1422	1904	500	5.08

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1931phae.proj.128M

Cl.–Dk.	Dfl.–Dk.	Red. Dfl.	Magn.	Remarks
1450	1268	875	829	
1456	1227	843	800	
1440	1232	855	810	
1433	1171	819	779	
1440	1236	858	813	
1443	989	684	666	
1469	1326	903	852	
1423	1160	816	776	
1443	1282	890	842	
1427	857	600	600	
1429	908	637	633	
1421	983	692	673	
1435	487	338	418	
1425	1273	895	846	
1444	1244	863	817	
1457	659	454	498	
1374	684	496	525	
1371	1248	910	858	
1394	1180	847	804	
1376	1228	893	844	
1403	1212	864	818	
1394	1133	813	774	
1393	1247	895	846	
1368	923	675	662	
1386	982	709	688	
1384	1115	805	769	
1380	799	578	583	
1402	1102	785	753	
1423	1197	841	797	
1404	922	657	647	

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P.S.R. - R.H. 3529 - Feb. 26, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volts
23.2 (Cont.)	162	2339	608	1672	1683	1886	508	5.08
	163	2335	625	1396	1387	1892	522	1392
	164	2333	946	1733	1733	1913	519	
	165	2339	1250	1535	1537	1933	521	
	1s	1938	958	620	—	1920	507	
	1	1877	600	1088	—	1955	527	Galvanometer
	2	—	—	1217	—	1913	527	becoming
	3	—	—	1349	—	1962	530	erratic.
	4	—	—	1378	—	1990	526	
	5	—	—	1402	—	1959	533	
	6	—	—	1437	—	1982	530	
	7	—	—	1521	—	1950	533	
	8	—	—	1772	—	1948	528	5.07

m.m. - RH3529 - Feb. 27, 1932

	1s	1938	948	549	—	1858	453	5.23
	1	1877	590	1012	—	1872	459	
	2	—	—	1129	—	1852	453	
	3	—	—	1243	—	1900	464	
	4	—	—	1368	—	1959	470	
	5	—	—	1418	—	1902	475	
	6	—	—	1471	—	1942	491	
	7	—	—	1550	—	1949	512	
	8	—	—	1772	—	1940	514	
23.4	166	2354	520	1721	1699	1968	529	1710
	167	2354	529	1700	1706	1960	537	
	168	2345	539	989	956	1962	537	972
	169	2341	560	1563	1553	1958	539	
	170	2354	598	861	872	1945	535	
	171	2346	633	1500	1498	1972	529	
	172	2341	1011	1701	1732	1933	540	16

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1931phae.proj.1206m

α.–Dec.	Defl.–Dk.	Red. Defl.	Magn.	Remarks
1378	1170	851	806	
1370	870	636	630	
1394	1214	873	826	
1412	1015	719	696	
1413	113	80	—	
1428	561	394	—	
1386	690	497	—	
1432	819	572	—	
1464	852	583	—	
1426	869	609	—	
1452	907	625	—	
1417	988	698	—	
1420	1244	878	—	
1405	96	68	—	
1413	558	392	—	
1399	676	484	—	
1436	779	542	—	
1489	898	604	—	
1427	943	662	—	
1451	980	677	—	
1437	1038	723	—	
1426	1258	882	—	
1439	1181	822	793	
1423	1166	819	792	
1425	435	305	400	
1419	999	706	707	
1410	331	235	357	
1443	970	673	682	
1393	1176	843	807	

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1931phae.proj.128M

JGP-R#3529-Feb. 27, 1932.

Strip	Star	y	x	Diff.-1	Diff.	Cl.	Dk. volt.	
	173	2363	1041	1742	1752	1942	647	
	174	2340	1242	1574	1583	1961	637	
23.6	175	2360	508	924	872	1923	643	
	176	2369	538	1633	1643	1954	638	
	177	2343	542	1572	1549	1940	642	60 42
	178	2360	560	1130	1153	1894	652	
	179	2360	563	722	691	1892	630	
	180	2362	599	1126	1112	1900	642	
	181	2372	604	1720	1712	1933	648	
	182	2359	791	1523	1532	1954	644	
	183	2361	917	1368	1358	1939	648	
	184	2361	1029	1582	1588	1961	609	
	185	2367	1226	1848	1842	1968	667	
23.8	186	2387	486	1808	1783	1963	657	
	187	2389	499	1793	1773	1954	658	
	188	2394	517	978	972	1943	658	
	189	2381	524	1497	1476	1938	662	
	190	2386	528	909	858	1944	662	
	191	2386	528	932	863	1942	650	
	192	2380	579	1805	1784	1940	649	
	193	2381	584	1473	1474	1937	638	
	194	2388	601	1589	1592	1932	637	
	195	2387	603	1352	1323	1936	627	
	196	2381	615	1086	1053	1904	618	
	197	2398	627	1527	1563	1918	613	
	198	2392	742	1062	1018	1943	641	
24.0	199	2402	492	1720	1703	1933	497	
	200	2401	631	1232	1158	1902	493	
	201	2410	526	1299	1288	1888	493	
	202	2400	553	1381	1288	1910	480	

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1931phae.proj.128M

Cl.-Dk.	Refl.-Dk.	Red. Dfl.	Magn.	Remarks
1385	1200	868	827	
1424	1041	730	727	
1380	355	267	370	
1416	1100	777	763	
1398	1018	728	725	
1342	590	440	495	
1362	176	129	291	
1358	579	427	485	
1385	1168	843	806	
1410	984	698	702	
1391	815	587	615	
1402	1026	733	728	
1401	1278	912	858	
1406	1239	880	835	
1396	1225	878	833	
1385	411	300	397	
1376	924	672	680	
1382	322	233	355	
1392	346	248	364	
1391	1245	893	843	
1399	936	669	679	
1395	1053	757	747	
1406	811	577	607	
1386	1062	768	755	
1405	1023	728	725	
1402	1003	715	715	
1436	1215	848	812	
1409	700	499	544	
1395	801	574	604	
1430	854	597?	623?	?

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1931phae.proj.1283M

3 gp - R.A. 3529 - Feb. 27, 1932 -

Trip	Star	y	x	Deff.	Deff.	Cl.	Dr.	volt.
	203	2406	562	1583	1567	1900	487	
	204	2404	1318	1495	1497	1942	489	
24.2	205	2429	517	1200	1146	1938	492	
	206	2428	554	1762	1758	1923	499	
24.4	207	2450	487	1567	1561	1924	505	
	208	2441	578	1731	1670	1957	502	
24.6	209	2459	648	1363	1329	1953	522	
	210	2459	664	1433	1434	1942	507	
	211	2470	768	1762	1770	1943	508	
24.8	212	2480	534	1732	1711	1970	512	
	213	2479	571	1778	1753	1942	510	
	214	2498	625	1088	1163	1942	520	
25.0	215	2508	476	1538	1508	1933	500	
	216	2506	692	1283?	1173	1912	487	
	217	2511	963	1710?	1578	1918	512	
25.2	218	2534	659	1612	1564	1957	529	
	219	2530	880	1722	1704	1952	537	
	220	2529	1004	1769	1777	1952	538	
	221	2532	1250	1619	1592	1973	550	
25.6	222	2568	647	1863	1804	1996	549	
	223	2557	662	1743	1753	1997	558	
	224	2558	949	1723	1704	1962	563	
	225	2568	1126	1657	1658	1991	567	
25.8	226	2584	1048	1294	1260	1981	581	
26.2	227	2618	698	1852	1852	1987	579	
26.4	228	2648	816	1620	1610	1982	583	
	1A	1938	948	701	—	1909	580	
	1	1877	590	1102	—	2002	588	
	2	—	—	1274	—	1957	568	
	3	—	—	1304	—	1958	568	

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1931phae.proj.128M

α − Dk	Dgl.-Dg.	Red. Dgl.	Magn.	Remarks
1419	+575 (1688)	~~713~~ 770	756	
1453	1007	693	697	
1446	681	472	522	
1424	1261	886	838	
1419	1059	747	739	
1455	1198	823	794	
1431	824	596	606	
1535	927	604	627	
1485	1268	847	810	
1458	1210	831	800	
1432	1256	875	832	
1422	706	498	544	
1433	1023	715	715	
1425	741 ?	520 ?	560	Appreciable difference in dgl. readings
1406	1132 ?	805 ?	782	" " " " "
1428	1059	740	734	
1415	1176	831	800	
1414	1235	872	828	
1423	1056	743	735	
1447	1255	867	826	
1439	1190	828	798	
1399	1141	816	790	
1424	1091	770	756	
1400	696	498	544	
1408	1273	910	858	
1399	1072	767	753	
1329	121	91	—	
1414	514	363	—	
1389	706	506	—	
1390	736	529	—	

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1931phae.proj.17R3M

HJP R H 3529 Feb 27, 32

Plate finished 4	—	—	1383	—	1992	680	
5	—	—	1436	—	1956	662	
6	—	—	1467	—	1963	669	
7	—	—	1683	—	1998	670	
8	—	—	1790	—	1946	668	670

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1931phae.proj.128.com

Cl.-Dk.	Degl.-Dk.	Red.Degl.
1412	803	568
1391	874	627
1394	908	651
1428	1033	724
1378	1222	887

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1931phae.proj.1483m

178 Cont. from Bk. 86, Page 158 RH 3595 – P.D.R. – May 2, 1932

Strip	Star	y	x	dy/dt	dx/dt	cc	dk	Volts
	14	1990	704	723	—	2099	523	5.22
	1	2347	640	1092	—	2093	532	Changes in readings recalculated repeating 13, 1, & 2.
	2	—	—	1396	—	2080	531	
	3	—	—	1510	—	2080	528	
	4	—	—	1409	—	2097	528	
	5	—	—	1614	—	2093	535	
	6	—	—	1697	—	2072	537	
	7	—	—	1660	—	2077	536	
	8	—	—	1902	—	2097	542	
18.2	56	1823	1224	1947	1943	2068	538	
	57	1820	1280	1886	1876	2084	545	
	58	1832	828	1715	1696	2063	545	
	59	1833	847	1842	1842	2055	547	
18.4	60	1848	792	1938	1932	2080	553	
	61	1848	825	1882	1876	2056	552	
	62	1840	976	1417	1420	2088	548	
	63	1844	1221	1939	1955	2103	555	
	64	1849	1238	1670	1678	2100	552	
	65	1857	330	1948	1941	2068	544	
18.6	66	1863	587	1650	1644	2060	553	
	67	1865	892	1948	1942	2092	553	
	68	1879	322	1630	1637	2082	548	
	69	1872	816	1662	1637	2063	558	
	70	1876	1024	1946	1952	2064	560	
	15	1990	703	746	—	2078	558	
	1	2347	640	1068	—	2068	554	
	2	—	—	1340	—	2060	554	
	3	—	—	1478	—	2100	562	
	4	—	—	1366	—	2090	563	
	5	—	—	1512	—	2080	565	
	6	—	—	1672	—	2117	566	
	7	—	—	2109	—	2076	563	
	8	—	—	1898	—	2097	570	5.17

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1931phae.proj.12453

U-Dk	Mean Defl-Dk	Red Defl	Mag	Remarks
1576	200	127	—	
1561	568	358	—	
1549	865	558	—	
1552	982	634	—	
1569	881	564	—	
1558	1079	693	—	
1535	1160	755	—	
1541	1124	730	—	
1565	1360	875	—	
1530	1407	920	off curve ✓	
1539	1336	868	829 ✓	
1518	1161	766	746 ✓	
1508	1295	860	821 ✓	
1527	1382	905	858 ✓	
1504	1327	881	838 ✓	
1540	870	565	582 ✓	
1548	1392	900	854 ✓	
1548	1122	725	709 ✓	
1524	1400	920	off curve ✓	
1507	1094	725	709 ✓	
1539	1392	905	858 ✓	
1534	1086	708	696 ✓	
1505	1092	726	710 ✓	
1504	1389	924	off curve	
1520	188	124	—	
1510	510	338	—	
1506	786	524	—	
1538	916	596	—	
1527	803	526	—	
1515	947	627	—	
1551	1106	714	—	
1513	1546		—	
1527	1328	870		

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1931phae.proj.12:3M

P. S. R. - R. A. 3595 - May 4, 1932

Strip	Star	Y	X	Diff	Diff cc	dk Pole		
	15	1989	710	648	—	1712	502	5.12
read in reverse order →	1	2348	647	818	—	1722	505	
	2	—	—	1134	—	1713	502	
	3	—	—	1226	—	1724	506	
	4	—	—	1136	—	1719	506	
	5	—	—	1282	—	1732	505	
	6	—	—	1340	—	1726	516	
	7	—	—	1423	—	1733	519	
	8	—	—	1558	—	1728	522	
18.6	✓71	1888	701	1433	1449	1711	521	
	✓72	1880	778	1215	1193	1703	516	
	✓73	1897	1150	1367	1347	1748	528	
19.0	✓74	1910	323	1392	1366	1717	525	
	✓75	1906	618	1492	1481	1725	526	
	✓76	1902	1038	1487	1467	1718	533	
	✓77	1907	1154	1597	1590	1727	531	
	×78	1900	1300	1610	1603	1724	530	
	×79	1917	500	1548	1550	1716	530	
19.2	✓80	1925	1294	1507	1497	1717	529	
	✓81	1938	323	1582	1587	1731	528	
	✓82	1932	460	1374	1384	1712	526	
19.4	×83	1946	753	1608	1613	1709	531	
	×84	1945	1085	1591	1593	1732	528	
	✓85	1940	1347	1605	1600	1728	533	
	✓86	1954	542	1598	1604	1744	532	
19.6	✓87	1965	402	1574	1572	1720	536	
	✓88	1969	936	1610	1603	1728	530	
	✓89	1960	1172	1556	1536	1741	535	
	✓90	1978	1085	1243	1234	1762	538	
19.8	91	1984	1363	1660	1666	1793	540	5.10

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1931phae.proj.1283M

Cl - Dk	Mean Diff. Dk	Fed Diff	Mag	Remarks
1210	146	121	—	
1217	313	258	—	
1211	632	522	—	
1218	720	592	—	
1213	630	520	—	
1227	777	635	—	
1210	824	680	—	
1214	904	745	—	
1206	1036	860	—	
1190	920	775	768 ✓	
1187	688	580	636 ✓	
1220	829	680	703 ✓	
1192	854	715	724 ✓	
1199	960	801	787 ✓	
1185	944	796	783 ✓	
1196	1063	889	853 ✓	
1194	1076	901	off curve *	
1186	1019	859	831 ✓	
1188	973	820	801 ✓	
1203	1056	877	849 ✓	
1186	853	720	726 ✓	
1178	1069	907	off curve †	
1204	1064	885	862 ✓	
1195	1069	895	857 ✓	
1212	1069	880	850 ✓	
1184	1037	875	848 ✓	
1198	1076	900	off curve ✓	
1206	1011	838	811 ✓	
1224	700	573	632 ✓	
1253	1123	895	857 ✓	

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1931phae.proj.1213M

P.S.R. – R.A. 3595 – May 4, 1932

Long	Star	y	x	Dyfe	Dyfe	Ce	xk	Volts
19.8 (Cont.)	✓92	1992	371	1667	1668	1773	542	5.10
	✓93	1998	507	1391	1370	1776	538	
	✓94	1999	643	1464	1454	1779	544	
	✓95	1998	992	1604	1616	1773	548	
	✓96	1997	1094	1540	1536	1796	534	
20.0	97	2004	376	1571	1594	1792	538	
	1s	1990	710	644	—	1803	541	
	1	2347	647	867	—	1792	543	
	2	—	—	1130	—	1793	541	
	3	—	—	1193	—	1788	540	
	4	—	—	1148	—	1786	532	
	5	—	—	1270	—	1782	532	
	6	—	—	1372	—	1754	528	
	7	—	—	1395	—	1737	520	
	8	—	—	1581	—	1754	528	5.09

S.P. – R.A. 3595 – May 4, 1932

	1s	1988	727	817	—	1687	662	
	1	2350	663	1012	—	1708	661	525
	2	—	—	1248	—	1742	642	
	3	—	—	1332	—	1712	638	
	4	—	—	1208	—	1743	607	
	5	—	—	1405	—	1732	653	
	6	—	—	1497	—	1758	649	
	7	—	—	1503	—	1723	653	
	8	—	—	1603	—	1727	648	
20.2	✓98	2037	393	1264	1279	1747	656	
	✓99	2020	849	1578	1558	1766	663	
	✓100	2021	1327	1696	1683	1829	662	
20.6	✓101	2069	483	1620	1553	1810	668	
	✗102	2066	752	1722	1702	1792	673	

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1931phae.proj.1283M

cl-Dk	Mean Dep-Dk	Fid Dep	Mag	Remarks
1231	1126	915	off curve	
1238	842	680	702	
1235	915	740	742	
1225	1062	868	840	
1262	1004	795	783	
1244	1044	840	817	
1262	103	81	—	
1249	324	259	—	
1252	589	470	—	
1248	653	525	—	
1254	616	492	—	
1250	738	592	—	
1226	844	688	—	
1217	875	720	—	
1226	1053	860		
1025	155	151	—	
1047	351	335	—	
1100	606	552	—	
1074	694	647	—	
1093	558	511	—	
1079	752	697	—	
1109	848	765	—	
1070	850	795	—	
1079	955	886	—	
1091	616	565	586	
1103	905	821	773	
1167	1028	880	830	
1142	918	805	758	
1119	1049	939	off curve	

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1931phae.proj.128M

ZC - RX3595 - May 5, 1932.

Strip	Star	y	x	Zeff.	Zeff.	α	Zk	Volts
	✓103	2068	852	1668	1664	1821	663	
	✓104	2070	1006	1590	1540	1808	672	
	✓105	2061	1106	1698	1703	1822	673	
	✓106	2067	1228	1558	1563	1803	674	
20.8	✓107	2090	292	1520	1520	1762	643	
	✓108	2080	433	1572	1552	1767	642	
	✓109	2086	757	1198	1137	1762	638	
	✓110	2093	891	1508	1490	1757	632	
	✓111	2081	905	1643	1639	1778	641	
	✓112	2080	1359	1612	1618	1792	638	
	✓113	2095	1372	1632	1624	1791	648	
21.2	✓114	2117	283	1601	1604	1766	648	
	✓115	2128	351	1532	1513	1752	632	
	✓116	2124	718	1188	1222	1764	642	
	✓117	2128	492	1528	1547	1740	633	
	✓118	2122	662	1357	1319	1787	649	
	✓119	2123	979	1602	1614	1791	643	
	✓120	2123	1224	1482	1493	1813	653	
21.4	✓121	2100	312	1690	1653	1818	654	
	✓122	2107	327	1603	1612	1827	631	
	✓123	2106	398	1562	1522	1838	643	
	✓124	2139	793	1658	1660	1833	658	
	✓125	2140	1022	1527	1526	1870	642	
	✓126	2144	1094	1736	1746	1887	642	
21.6	✓127	2108	467	1713	1705	1912	657	
	✓128	2160	479	1703	1682	1916	646	
21.8	✓129	2198	683	1602	1590	1928	642	
	✓130	2178	628	1823	1803	1921	632	
	✓131	2161	775	1770	1780	1937	642	
	✓132	2189	1125	1661	1653	1963	618	

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1931phae.proj.12824M

Cl.-Dk.	Mean Dep.-Dk.	Red. Diff.	Mag.	Remarks
1158	998	943	offcurve	
1136	893	787	740	
1149	1027	896	850	
1129	886	785	740	
1119	877	783	740	
1125	920	817	769	
1124	529	470	529	
1125	867	770	729	
1137	1000	879	830	
1154	977	847	797	
1143	950	857	806	
1118	954	853	802	
1120	890	795	750	
1122	563	502	550	
1107	905	817	767	
1138	689	606	610	
1148	990	863	813	
1160	835	721	690	
1164	1018	873	825	
1196	977	817	768	
1195	879	736	700	
1175	1001	853	802	
1228	883	720	689	
1245	1098	881	832	
1255	1043	832	783	
1260	1046	830	780	
1286	954	742	705	
1289	1181	919	offcurve	
1295	1133	877	828	
1345	1039	773	730	

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1931phae.proj.1213M

KJP-RH 3595 – May 4, 1932

Chief.	Star	y	x	Ch.	Ch.	Ch.	Ch.	Notes
	133	2190	1238	1490	1458	1992	642	
22.0	134	2210	543	1793	1820	1988	622	
	135	2208	690	1694	1652	1996	643	
22.2	136	2217	482	1614	1643	1993	652	
	137	2217	1293	1897	1861	2013	647	
22.4	138	2247	373	1822	1832	2007	643	
	139	2242	669	1543	1522	2029	653	
	140	2245	739	1703	1688	1999	639	
	141	2251	834	1679	1703	2023	642	
22.6	142	2209	607	1692	1658	2032	642	
	143	2268	821	1543	1538	1983	652	
	144	2260	977	1822	1827	2017	653	
	145	2272	977	1738	1722	2022	652	
	146	2208	1263	1813	1788	2003	653	5.20
P.23.8	147	2284	846	1708	1688	1977	627	5.29
	148	2281	924	1732	1728	1980	620	
	149	2294	1145	1828	1802	1982	628	
	150	2296	1224	1848	1844	1981	623	
23.2	151	2321	758	1832	1824	1966	620	
23.4	152	2350	950	1780	1779	1950	623	
	153	2354	1193	1837	1820	1972	625	
	154	2353	1245	1489	1419	1932	608	
23.6	155	2360	795	1672	1655	1952	626	
	156	2366	896	1666	1673	1950	613	
	157	2379	562	1750	1763	1921	614	
23.8	158	2390	918	1434	1428	1930	615	
24.2	159	2420	646	1443	1441	1953	613	
	160	2424	888	1797	1800	1938	618	
	161	2435	947	1315	1328	1980	625	
	162	2433	1182	1778	1778	1947	615	5.27

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1931phae.proj.1282M

Cl.-Dk.	Mean Defl.-Dk.	Red. Defl.	Magn.	Remarks
1350	1134	842	792 ✓	
1366	1184	868	819 ✓	
1353	1030	761	720 ✓	
1341	976	728	690 ✓	
1366	1232	902	off curve ✓	
1364	1184	868	819 ✓	
1376	869	632	630 ✓	
1360	1057	778	730 ✓	
1391	1049	754	715 ✓	
1390	1033	742	703 ✓	
1331	898	673	659 ✓	
1364	1171	857	806 ✓	
1370	1078	786	740 ✓	
1350	1147	850	800 ✓	
1350	1071	795	749 ✓	
1360	1110	817	769 ✓	
1354	1175	868	817 ✓	
1358	1223	901	off curve ✗	
1346	1208	898	850 ✗	
1327	1157	872	824 ✓	
1347	1203	891	849 ✓	
1324	846	639	630 ✗	(outside circle)
1326	1038	783	740 ✓	
1337	1057	790	745 ✓	
1309	1142	875	825 ✓	
1315	816	621	622 ✓	
1340	831	620	621 ✓	
1320	1180	894	850 ✓	
1355	697	515	554 ✓	
1332	1163	872	824 ✗	(outside circle)

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1931phae.proj.1213M

P. S. R. – R. H. 3595 – May 5, 1932

Strip	star	y	x	Defl.	Defl.	Q	2Δk	Volts
24.6	163	2468	676	1712	1692	1916	618	5.27
	164	2465	1078	1457	1445	1949	615	
	165	2471	960	1736	1738	1947	611	
24.8	166	2488	1087	1747	1758	1962	609	
	167	2496	898	1753	1743	1920	603	
25.0	168	2500	722	1761	1749	1920	609	
	169	2501	830	1731	1719	1910	600	
	15	1990	725	758	—	1903	605	
	1	2347	663	1040	—	1927	618	
	2	—	—	1280	—	1927	619	
	3	—	—	1348	—	1927	609	
	4	—	—	1323	—	1918	606	
	5	—	—	1457	—	1918	608	
	6	—	—	1522	—	1917	607	
	7	—	—	1583	—	1918	602	
	8	—	—	1748	—	1908	609	5.22

Plate finished

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1931phae.proj.1282M

cl - Obs	mean Obj-Obs	Red Obj	mag.	Remarks
1298	1084	835	785 ✓	
1334	837	627	625 ✓	
1336	1126	843	792 ✓	
1353	1143	844	793 ✓	(outside circle)
1317	1145	871	822 ✓	
1311	1146	873	825 ✓	
1310	1125	858	807 X	
1298	153	118	—	
1309	422	323	—	
1308	661	506	—	
1318	739	560	—	
1312	717	546	—	
1310	849	648	—	
1310	915	699	—	
1316	981	746	—	
1299	1139	875	—	

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1931phae.proj.1213M

P. S. R. - R. A. 3765 - May 6, 1932

Strip	Star	y	x	Diff.	Diff.	Cl.	Pk.	Volts
	15	2089	936	647	—	1361	575	5.15
	1	1734	1011	939	—	1374	552	
	2	—	—	1037	—	1391	551	
	3	—	—	1116	—	1365	549	
	4	—	—	1153	—	1365	550	
	5	—	—	1182	—	1366	543	
	6	—	—	1201	—	1380	528	
	7	—	—	1198	—	1363	541	
	8	—	—	1269	—	1375	562	
15.4	1	1545	783	1308	1303	1386	559	
	2	1548	891	1317	1294	1403	560	
	3	1551	715	1308	1313	1388	550	
15.6	4	1577	653	1323	1319	1403	564	
	5	1579	938	1310	1306	1414	556	
15.8	6	1582	536	1208	1217	1404	565	
	7	1598	500	1331	1338	1404	565	
16.0	8	1612	667	1171	1167	1416	564	
16.2	9	1630	588	1317	1294	1397	564	
	10	1623	726	1310	1297	1396	563	
	11	1626	968	1209	1220	1409	565	
16.4	12	1647	974	1333	1339	1417	565	
	13	1648	1046	1347	1343	1410	562	
	14	1658	696	1209	1202	1406	552	
16.6	15	1660	880	1340	1329	1393	534	
	16	1668	1052	1307	1310	1403	532	
16.8	17	1692	422	1313	1308	1393	563	500
	18	1680	718	1273	1275	1383	567	
	19	1690	819	1260	1263	1393	572	
17.0	20	1705	607	1358	1356	1417	578	
	21	1700	666	1339	1337	1428	582	

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1934phae.proj.1202M

Cl.-Dk.	Mean Defl.-Dk.	Red. Defl.	Mag.	Remarks
816	302	370	—	
824	389	472	—	
840	486	580	—	
816	567	695	—	
815	603	740	—	
823	639	776	—	
852	673	790	—	
822	657	800	—	
813	707	870	—	
827	747	905	off curve	
843	746	886	828	
838	760	906	off curve	
839	757	903	858	
858	752	875	810	
839	647	771	654	
839	769	916	off curve	
852	605	710	590	
833	742	890	835	
833	741	890	835	
844	649	769	653	
852	771	906	off curve	
848	783	921	off curve	
854	654	765	648	
859	800	930	off curve	
871	776	892	837	
830	747	900	854	
816	707	866	795	
821	690	840	754	
839	779	929	off curve	
846	753	889	833	

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1931phae.proj.1213M

2 Gp - R H 3760 - May 6, 1932

Strip	Star	y	x	Dyl	Dyl	Cl	Dk	Volt
	22	1702	843	1373	1373	1417	580	
17.2	23	1721	847	1362	1360	1437	583	
	24	1727	857	1342	1361	1431	578	
17.4	25	1752	391	1347	1336	1405	583	
	26	1751	453	1377	1373	1413	580	
	27	1756	470	1322	1310	1427	582	
	28	1750	686	1368	1368	1419	582	
	29	1760	1119	1372	1370	1443	583	
17.6	30	1765	360	1373	1366	1417	591	
	31	1778	451	1380	1332	1407	586	
	32	1773	639	1278	1263	1427	579	
	33	1766	691	1286	1283	1418	583	
	34	1761	768	1288	1289	1423	574	
	35	1771	778	1326	1306	1417	573	
17.8	36	1790	863	1276	1270	1377	577	
	37	1790	638	1283	1292	1417	572	
	38	1780	699	1332	1338	1412	579	
	39	1798	781	1246	1268	1443	577	
	40	1780	796	1208	1203	1403	578	
	41	1790	1009	1278	1273	1428	578	
	42	1797	1292	1366	1388	1437	582	
18.0	43	1810	603	1343	1341	1412	582	
	44	1811	713	1342	1342	1414	584	
	45	1800	768	1367	1372	1418	579	
	46	1803	877	1264	1260	1409	577	
	47	1803	947	1192	1194	1417	573	
	48	1800	1243	1334	1333	1437	581	
18.2	49	1830	323	1333	1326	1404	582	
	50	1838	1073	1329	1319	1442	576	
	51	1830	1134	1287	1273	1429	573	

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1931phae.proj.128M

Cl - Dk	Mean Dist - Dk	Red Dyl	Mag.	Remarks
837	793	945	off curve	
844	768	910	off curve	
853	774	905	off curve	
822	757	922	off curve	
839	795	955	off curve	
845	734	866	796	
837	786	940	off curve	
860	788	916	off curve	
826	779	941	off curve	
821	770	937	off curve	
848	691	815	715	
835	701	840	754	
849	714	840	754	
844	741	879	816	
800	695	870	802	
845	714	845	761	
833	756	910	off curve	
836	675	806	705	
825	628	760	643	
850	698	820	723	
855	795	930	off curve	
830	760	915	off curve	
830	758	914	off curve	
839	791	944	off curve	
832	685	825	730	
844	620	735	614	
856	753	878	815	
822	748	910	off curve	
839	753	895	845	
856	707	825	730	

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1931phae.proj.1213M

Zgp - R.A. 3765 - May 6, 1932.

Strip	Star	y	x	Dyx	Dxy	Cc	Dk	Vdet
18.4	52	1840	927	1263	1233	1420	583	
	53	1851	1034	1264	1258	1437	581	
18.6	54	1860	378	1314	1278	1452	574	
	55	1870	467	1336	1329	1413	578	
	56	1860	490	1233	1218	1412	563	
	57	1872	832	1304	1311	1407	563	
	58	1859	932	1350	1343	1423	567	
	59	1870	992	1342	1375	1415	568	
	60	1860	1170	1382	1378	1432	567	
	61	1870	1279	1313	1378	1428	568	
18.8	62	1879	563	1350	1348	1404	569	
	63	1890	788	1337	1333	1410	563	
	64	1883	1137	1319	1298	1407	570	
	65	1890	1149	1319	1307	1420	567	
	66	1891	1219	1279	1273	1429	578	
	67	1890	1291	1329	1337	1426	582	
	68	1898	1304	1326	1338	1432	582	
19.0	69	1904	522	1320	1328	1413	581	
	70	1910	693	1233	1239	1407	588	
	71	1910	826	1322	1388	1417	591	
	72	1899	875	1368	1340	1429	592	
	73	1901	1070	1382	1373	1432	590	
	74	1904	1103	1383	1383	1447	597	
	1	2089	936	1763	—	1323	602	
	1	1734	1011	1067	—	1383	596	
	2	—	—	1104	—	1421	609	
	3	—	—	1192	—	1418	573	
	4	—	—	1203	—	1443	604	
	5	—	—	1204	—	1428	598	
	6	—	—	1260	—	1427	603	
	7	—	—	1268	—	1402	609	600
	8	—	—	1333	—	1422	612	

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1931phae.proj.128M

Cl-Dk	Neg Diff-Dk	Red Dyk	Mag.	Remarks
837	665	795	688	
856	680	794	686	
858	722	840	754	
835	753	900	854	
849	662	780	666	
844	745	884	824	
856	779	909	off curve	
847	790	938	off curve	
865	813	939	off curve	
860	812	945	off curve	
835	780	935	off curve	
847	772	910	off curve	
837	738	880	818	
853	746	876	810	
851	698	820	723	
844	751	890	835	
850	755	888	834	
832	743	893	840	
819	648	791	680	
826	724	875	810	
837	762	910	off curve	
842	787	935	off curve	
850	786	925	off curve	
719	161	224	—	
787	471	598	—	
812	495	610	—	
825	599	725	—	
809	599	740	—	
830	626	755	—	
824	657	799	—	
793	659	831	—	
810	721	890	—	

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1931phae.proj.12830

P. S. R. – R. A. 3765 – May 7, 1932

Strip	Star	q	r	Diff.	Diff.	Q.	Clk	Volts
	15	2089	911	741	—	1437	629	5.02
	1	1733	986	1080	—	1447	653	
	2	—	—	1173	—	1510	681	
	3	—	—	1258	—	1502	683	
	4	—	—	1296	—	1488	684	
	5	—	—	1297	—	1509	689	
	6	—	—	1363	—	1497	674	
	7	—	—	1333	—	1482	676	
	8	—	—	1395	—	1470	671	5.01
19.2	75	1922	249	1427	1433	1482	678	
	76	1924	366	1306	1306	1482	672	
	77	1922	610	1372	1382	1473	675	
	78	1922	928	1236	1218	1462	664	
	79	1919	1099	1339	1346	1462	658	
	80	1921	1172	1192	1186	1473	660	
	81	1918	1240	1364	1352	1473	658	
	82	1928	1308	1394	1380	1483	660	
	83	1926	1314	1417	1427	1469	660	
19.4	84	1957	296	1398	1406	1473	660	
	85	1951	640	1408	1418	1470	666	
	86	1953	700	1282	1268	1468	661	
	87	1950	791	1410	1410	1463	671	
	88	1954	1295	1339	1324	1479	672	
19.6	89	1970	232	1356	1353	1476	673	
	90	1962	406	1398	1403	1486	680	
	91	1967	685	1383	1365	1485	680	
	92	1961	834	1124	1088	1468	667	
	93	1963	1156	1367	1375	1498	663	
	94	1978	588	1300	1292	1463	673	
	95	1978	1107	1339	1344	1470	660	4.99

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1931phae.proj.128cm

Cl. – Dk.	Mean Deff. – Dk.	Red. Deff.	Mag	Remarks
808	112	138	—	
794	427	538	—	
829	492	593	—	
819	575	702	—	
804	612	760	—	
820	608	742	—	
823	689	836	—	
806	657	815	—	
799	724	905	—	
804	752	935	off curve	
810	634	780	6.78	
798	702	878	8.01	
798	563	705	5.90	
804	684	850	7.68	
813	529	651	5.42	
815	700	860	7.80	
823	727	885	8.13	
809	762	940	off curve	
813	742	912	8.56	
804	747	930	off curve	
807	614	760	6.50	
792	739	934	off curve	
807	660	816	7.20	
803	681	849	7.15	
806	720	890	8.20	
805	694	860	7.80	
801	439	548	4.60	
835	708	848	7.61	
790	623	787	6.80	
810	682	840	7.52	

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1931phae.proj.17830

Exp. - R.A. 3765. May 7, 1932.

Temp	Star	y	x	Diff	Diff	Ce	Dk	Volts
	1A	2089	911	832	—	1412	697	
	1	1733	986	1088	—	1452	709	
	2	—	—	1198	—	1478	703	
	3	—	—	1245	—	1493	703	
	4	—	—	1292	—	1466	698	
	5	—	—	1302	—	1480	703	
	6	—	—	1341	—	1497	708	
	7	—	—	1342	—	1478	704	
	8	—	—	1400	—	1482	703	490
	1A	2089	911	919	—	1569	729	
	1	1733	986	1211	—	1611	723	530
	2	—	—	1316	—	1636	723	
	3	—	—	1342	—	1656	722	
	4	—	—	1412	—	1613	718	
	5	—	—	1448	—	1642	722	
	6	—	—	1480	—	1644	722	
	7	—	—	1510	—	1638	723	
	8	—	—	1540	—	1642	713	
19.8	96	1993	356	1488	1498	1087	692	
	97	1983	363	1377	1373	1063	692	
	98	1990	487	1520	1504	1643	702	
	99	1980	587	1390	1414	1543	691	
	100	1980	741	1460	1467	1562	692	
	101	1980	839	1507	1503	1063	689	
	102	1979	1108	1461	1459	1084	692	
20.0	103	2002	571	1522	1518	1583	689	
	104	2010	1031	1503	1500	1557	692	
	105	2010	1199	1264	1262	1572	702	
20.2	106	2028	266	1478	1472	1562	693	
	107	2028	742	1438	1439	1578	683	

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1931phae.proj.12139

Cl.-Dk.	Mean Defl.-Dk.	Red. Defl.	Mag	Remarks
715	135	189	—	
743	379	510	—	
775	495	638	—	
790	542	685	—	
768	594	770	—	
777	599	770	—	
789	633	801	—	
774	638	825	—	
779	697	895	—	
840	190	226	—	
888	488	550	—	
913	590	646	—	
934	620	665	—	
895	694	775	—	
920	726	790	—	
922	758	824	—	
915	787	861	—	
929	827	890	—	
895	801	895	8.28	
871	683	784	6.64	
941	810	860	7.72	
852	711	835	7.36	
870	772	886	8.13	
874	816	935	off curve	
892	763	855	7.72	
894	831	930	off curve	
865	810	936	off curve	
870	556	640	5.02	
869	782	899	8.30	
895	755	844	7.52	

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1931phae.proj.12830

Dyp- RA 3765- May 7, 1932

Strip	Star	Y	X	Dyll	Dyll	Ce	Ck	Volts
	108	2020	1164	1507	1496	1080	689	
	109	2037	1425	1282	1293	1079	682	
20.4	110	2050	481	1443	1427	1073	688	
	111	2050	581	1452	1443	1067	693	
	112	2047	932	1423	1406	1078	685	
	113	2050	1039	1528	1513	1071	683	
	114	2060	1068	1388	1377	1073	682	
	115	2040	1199	1464	1458	1072	680	
	116	2051	1204	1493	1492	1073	687	
20.6	117	2064	212	1472	1469	1073	692	
	118	2066	462	1507	1507	1070	682	
	119	2071	490	1290	1293	1062	683	
	120	2060	1318	1578	1571	1073	673	
20.8	121	2080	348	1506	1496	1058	673	
	122	2088	402	1441	1438	1073	682	
	123	2080	641	1487	1473	1070	673	
	124	2092	1033	1486	1473	1072	673	
	125	2080	1174	1488	1478	1081	670	
21.0	126	2110	228	1500	1472	1089	670	
	127	2103	490	1458	1454	1067	663	
	128	2101	822	1499	1492	1067	662	
	129	2111	1116	1469	1460	1076	669	
	130	2110	1254	1502	1492	1097	677	
21.2	131	2120	278	1511	1510	1092	672	
	132	2120	281	1447	1443	1077	673	
	133	2118	994	1493	1482	1062	668	
	134	2130	1077	1463	1480	1089	672	
	135	2136	1262	1393	1382	1087	677	530
	1A	2089	911	888	—	1072	673	
	1	1723	986	1173	—	1525	670	

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1931phae.proj.12130

α - Dec	Mean Def - Dec	Red Def	Mag.	Remarks
891	813	911	off curve	
897	606	676	537	
885	747	845	751	
874	755	865	781	
893	729	815	707	
888	834	943	off curve	
911	700	768	641	
892	781	876	800	
856	805	940	off curve	
881	778	884	810	
888	825	928	off curve	
879	609	692	553	
900	841	935	off curve	
885	828	936	off curve	
911	758	832	731	
897	807	900	832	
899	807	897	828	
911	813	892	822	
919	816	888	815	
904	793	878	800	
905	834	920	off curve	
907	735	810	700	
920	819	890	819	
920	838	910	853	
904	772	855	767	
894	820	918	off Curve	
917	800	872	792	
910	711	781	661	
839	215	256	—	
855	503	587	—	

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1931phae.proj.128cm

ZJP- R # 3765- May 7, 1932.

Strip	Star	y	x	Diff	Diff	Cl	Dk	Volts
	2	—	—	1222	—	1567	670	
	3	—	—	1300	—	1583	668	
	4	—	—	1342	—	1543	663	
	5	—	—	1343	—	1571	663	
	6	—	—	1396	—	1563	657	
	7	—	—	1390	—	1583	673	
	8	—	—	1460	—	1557	664	
	ZJP- R # 3765- May 8, 1932.							
	1A	2089	911	603	—	1229	483	535
	1	1733	986	860	—	1271	513	
	2	—	—	937	—	1291	506	
	3	—	—	1019	—	1297	502	
	4	—	—	1074	—	1282	517	
	5	—	—	1117	—	1338	523	
	6	—	—	1147	—	1359	527	
	7	—	—	1163	—	1343	543	
	8	—	—	1222	—	1327	538	
21.4	ˇ136	2150	248	1277	1272	1362	543	
	ˇ137	2149	272	1237	1247	1377	532	
	ˇ138	2157	399	1320	1320	1401	550	
	ˇ139	2140	419	1283	1292	1404	549	
	ˇ140	2140	430	1210	1227	1403	558	
	ˇ141	2151	427	1158	1142	1413	557	
	ˇ142	2147	538	1243	1250	1412	548	
	ˇ143	2140	957	1263	1263	1417	552	
21.6	X144	2158	399	1373	1373	1443	566	
	ˇ145	2168	427	1356	1352	1467	562	
	ˇ146	2172	547	1339	1340	1448	563	
	ˇ147	2168	577	1352	1352	1453	562	
	ˇ148	2158	653	1352	1357	1442	560	

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1931phae.proj.12839

α.-Dk.	Deff.-Dk.	Red. Dff.	Mag	Remarks
897	552	615	—	
895	632	705	—	
880	679	771	—	
908	680	748	—	
906	739	815	—	
880	717	815	—	
893	796	893	—	
746	120	161	—	
758	347	456	—	
785	431	548	—	
795	517	650	—	
765	557	729	—	
815	594	728	—	
832	620	745	—	
800	620	775	—	
789	684	865	—	
819	731	892	872	
845	710	840	790	
851	775	910	off curve	
855	738	864	826	
845	660	780	711	
856	593	691	615	
864	698	809	748	
865	706	816	753	
880	810	920	off curve	
905	792	875	841	
895	787	880	850	
891	790	886	860	
879	791	900	off curve	

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1931phae.proj.12130

2 Jp-RH 3765 - May 8, 1932.

Strip	Star	y	x	Δlefl	Δlefl	ce	Δk	Volts
	149	2157	713	1357	1357	1434	569	
	150	2173	703	1232	1222	1424	559	
	151	2167	798	1100	1098	1432	562	
	152	2158	874	1268	1257	1443	569	
	153	2166	1247	1200	1168	1446	569	
21.8	154	2178	447	1332	1331	1456	577	
	155	2180	937	1392	1373	1462	592	
	156	2181	983	1218	1198	1461	578	
	157	2190	1239	1392	1390	1477	572	
	158	2191	1304	1227	1223	1464	576	
22.0	159	2201	332	1149	1118	1463	581	
	160	2204	348	1341	1333	1492	587	
	161	2209	592	1113	1072	1476	588	
	162	2212	732	1314	1303	1468	592	
	163	2214	441	1258	1250	1452	583	
	164	2200	745	1327	1337	1462	592	
	165	2200	777	1363	1389	1467	593	
	166	2209	938	1400	1392	1497	593	
22.2	167	2230	289	1302	1314	1478	586	
	168	2222	346	1368	1363	1492	592	
	169	2220	613	1382	1377	1510	593	
	170	2224	729	1433	1411	1502	579	
	171	2230	789	1400	1400	1492	593	
	172	2233	1032	1380	1362	1507	583	
	173	2238	1101	1226	1223	1502	572	
22.4	174	2242	238	1377	1372	1507	592	
	175	2252	574	1341	1388	1521	588	
	176	2247	822	1238	1224	1513	575	
	177	2260	1300	1307	1288	1533	578	
22.6	178	2270	334	1262	1227	1521	587	

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1931phae.proj.126cm

d-Dk	Mean Def-Dk	Red Def	Mag	Remarks
865	788	910	off curve	
865	668	772	701	
870	537	617	543	
874	693	793	723	
887	625	705	628	
879	755	860	820	
870	790	908	off curve	
883	630	715	639	
905	819	905	off curve	
888	649	730	653	
882	553	626	552	
905	750	828	771	
888	504	566	501	
871	716	824	718	
869	671	773	702	
870	740	850	804	
874	783	895	871	
904	803	887	860	
892	722	810	750	
900	774	860	821	
917	787	858	814	
923	843	913	off curve	
899	807	898	off curve	
924	788	854	811	
930	641	689	610	
915	782	855	810	
933	792	849	800	
928	656	706	630	
955	719	753	681	
934	653	699	620	

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1931phae.proj.12830

Yp - RH 3765 - May 8, 1932.

Temp	Star	y	x	Diff	Diff	Cc	Dk	Volts
	179	2263	622	1376	1353	1522	692	
	180	2271	756	1401	1388	1572	682	
	181	2261	801	1420	1413	1517	682	
	182	2262	1078	1372	1354	1513	682	
22.8	183	2287	271	1363	1363	1503	679	
	184	2289	339	1348	1332	1522	682	
	185	2291	422	1223	1222	1519	681	
	186	2295	1055	1174	1142	1517	692	
	187	2293	1275	1373	1363	1540	683	
23.0	188	2304	480	1442	1413	1572	698	
	189	2317	486	1398	1382	1528	688	
	190	2310	620	1407	1383	1522	688	
	191	2299	849	1414	1412	1512	673	
23.2	192	2329	310	1416	1404	1503	690	
	193	2321	426	1317	1323	1522	683	
	194	2334	817	1143	1132	1483	673	
	195	2331	837	1348	1347	1473	687	
	196	2321	881	1417	1409	1522	682	
	197	2317	1001	1162	1139	1509	673	
	198	2337	1042	1302	1287	1552	693	
	199	2329	1150	1409	1387	1519	682	
	200	2320	1160	1428	1428	1492	677	
	10	2089	911	722	—	1431	683	535
	1	1733	986	1062	—	1427	682	
	2	—	—	1103	—	1473	683	
	3	—	—	1188	—	1467	670	
	4	—	—	1222	—	1443	682	
	5	—	—	1203	—	1473	683	
	6	—	—	1282	—	1469	682	
	7	—	—	1282	—	1452	672	
	8	—	—	1323	—	1440	677	

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1931phae.proj.128cm

Cl-Dk	Mean Diff-Dk	Red Diff	Mag	Remarks
930	761	819	759	
930	812	874	841	
935	834	890	867	
931	781	839	788	
924	784	848	800	
940	758	805	741	
938	641	684	608	
925	566	614	543	
957	785	820	760	
914	830	909	off curve	
940	802	852	810	
934	807	865	828	
939	840	895	872	
913	820	898	875	
939	737	785	718	
910	565	620	548	
906	761	840	791	
940	831	885	858	
936	577	616	543	
959	701	731	656	
937	816	870	835	
915	851	930	off curve	
847	139	164	—	
845	480	567	—	
890	520	585	—	
897	618	688	—	
861	640	744	—	
890	620	696	—	
887	700	789	—	
880	710	806	—	
863	746	865	—	

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1931phae.proj.12R3M

HJP - R#3765 - May 9, 1932.

mag	Star	Y	X	Diff	Diff	cc	dk	Plate
		1s	2090	887	703	1416	698	630
		1	1733	962	977	1422	688	
		2	—	—	1081	1473	603	
		3	—	—	1142	1457	608	
		4	—	—	1212	1447	609	
		5	—	—	1209	1467	621	
		6	—	—	1273	1458	613	
		7	—	—	1274	1453	620	
		8	—	—	1342	1463	627	
23.4	201	2352	761	1388	1374	1013	633	
	202	2341	981	1368	1322	1513	633	
	203	2342	983	1298	1243	1497	641	
	204	2347	1093	1363	1342	1520	650	
	205	2350	1097	1325	1343	1503	643	
	206	2350	1102	1320	1313	1497	649	
	207	2351	1142	1363	1349	1506	646	
	208	2350	1191	1437	1480	1512	648	
23.6	209	2352	423	1326	1323	1453	643	
	210	2361	528	1254	1237	1448	637	
	211	2364	602	1248	1292	1460	652	
	212	2372	863	1013	1100	1432	638	
	213	2370	1032	1396	1393	1457	643	
	214	2361	1040	1352	1354	1462	652	
	215	2360	1065	1347	1343	1454	648	
23.8	216	2380	208	1192	1162	1422	653	
	217	2378	314	1368	1380	1433	668	
	218	2379	861	1182	1158	1437	658	
	219	2392	879	1220	1243	1451	653	
	220	2392	1092	1110	1056	1459	673	
	221	2390	1162	1268	1252	1452	661	

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1931phae.proj.12[illegible]

cl - Dk	Mean Defl - Dk	Red Defl	Mag.	Remarks
818	105	128	—	
834	389	466	—	
870	478	550	—	
849	534	628	—	
838	603	718	—	
846	588	695	—	
845	660	780	—	
833	654	785	—	
836	715	855	—	
870	748	860	825	
880	712	809	758	
856	629	734	667	
870	702	806	751	
860	691	804	750	
848	667	785	727	
860	710	825	779	
864	786	912	off curve	
810	681	840	800	
811	608	750	685	
808	638	790	783	
794	418	527	498	
814	751	923	off curve	
810	701	865	830	
806	697	865	830	
769	524	680	614	
765	706	924	off curve	
779	512	655	592	
798	563	704	638	
786	410	520	492	
791	594	750	685	

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1931phae.proj.12.3.3

Alp - RA 3765 - May 9, 1932

Strip	Star	y	x	dyll	dyll	cc	dk	Zelt
24.0	222	2405	468	1323	1312	1422	651	
	223	2399	478	1217	1212	1429	668	
	224	2393	508	1328	1323	1431	651	
	225	2400	645	1333	1340	1440	660	
	226	2410	743	1168	1158	1422	668	
	227	2410	810	1283	1272	1450	673	
	228	2405	937	1305	1319	1447	677	
	229	2411	952	1203	1187	1442	672	
	230	2400	1176	1324	1313	1459	683	
24.2	231	2421	555	1318	1322	1448	673	
	232	2421	997	1307	1297	1462	680	
24.4	233	2405	463	1332	1332	1442	681	
	234	2411	1182	1373	1374	1469	679	
24.6	235	2460	622	1332	1314	1432	667	
	236	2470	857	1068	1023	1413	662	
	237	2468	863	1332	1343	1487	667	
	238	2461	1017	1268	1232	1462	673	
24.8	239	2478	603	1364	1372	1458	685	5.32
	240	2480	687	1245	1237	1462	672	
	241	2484	752	1301	1303	1452	668	
	242	2482	964	1354	1367	1465	660	
	243	2499	473	1354	1368	1467	662	(Double Star ?)
25.0	244	2500	1122	1392	1380	1490	665	
	245	2511	795	1356	1368	1461	662	
	246	2515	812	1273	1263	1466	657	
	247	2517	975	1360	1368	1510	669	
	248	2511	998	1396	1383	1508	633	
25.2	249	2520	870	1116	1130	1500	642	
	250	2524	951	1238	1260	1502	643	
	251	2524	1058	1389	1407	1528	643	5.32

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Cl-Dk	mean Dep-Dk	Red Dep	Mag.	Remarks
771	666	864	831	
761	547	718	650	
780	675	865	831	
780	676	866	833	
754	495	658	596	
777	605	778	720	
770	635	825	779	
770	523	680	615	
776	635	818	768	
775	647	835	791	
782	622	796	740	
761	651	855	820	
790	695	880	off curve	
765	656	859	821	
751	384	513	490	
770	671	872	843	
789	577	730	662	
773	683	884	off curve	
790	569	720	~~off curve~~ 652	
784	634	810	760	
805	700	870	840	
805	699	868	838	
825	721	874	850	
799	700	877	851	
809	611	755	694	
841	695	827	781	
875	757	865	831	
858	481	560	520	
859	606	706	640	
885	754	852	816	

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1931phae.proj.12639

Cl-Dk	mean Dep-Dk	Red Dep	Mag	Remarks
771	666	864	831	
761	547	718	650	
780	675	865	831	
780	676	866	833	
754	495	658	596	
777	605	778	720	
770	635	825	779	
770	523	680	615	
776	635	818	768	
775	647	835	791	
782	622	796	740	
761	651	855	820	
790	695	880	off curve	
765	656	859	821	
751	384	513	490	
770	671	872	843	
789	577	730	662	
773	683	884	off curve	
790	569	720	652 off curve	
784	634	810	760	
805	700	870	840	
805	699	868	838	
825	721	874	850	
799	700	877	851	
809	611	755	694	
841	695	827	781	
875	757	865	831	
858	481	560	520	
859	606	706	640	
885	754	852	816	



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1931phae.proj.12130M

P. S. P. – R. A. 3765 – May 9, 1932

Strip	Star	y	x	dyC	dyE	cC	cK	Volts
25.2 (Cont.)	252	2539	1001	1398	1391	1482	631	5.32
	253	2539	1012	1375	1374	1499	623	
25.4	254	2540	750	1325	1328	1473	628	
	255	2548	865	1042	1025	1488	621	
	256	2542	1070	1386	1388	1504	613	
	257	2554	585	1318	1309	1473	630	
	258	2557	651	1294	1286	1485	625	
	259	2553	750	1365	1380	1482	627	
	260	2555	784	1358	1353	1486	622	
25.6	261	2561	565	1332	1313	1500	618	
	262	2565	598	1398	1382	1503	623	
	263	2561	618	1321	1328	1500	616	
	264	2565	695	1200	1222	1526	620	
	265	2571	951	1374	1347	1513	614	
	266	2576	1007	1343	1347	1507	610	
25.8	267	2584	559	1382	1392	1498	606	
	268	2585	951	1298	1292	1506	610	
	269	2591	557	1353	1353	1490	612	
	270	2590	863	1379	1389	1482	607	
	271	2590	870	1400	1396	1505	604	
26.0	272	2610	882	1383	1374	1478	621	
	15	2089	886	730	—	1488	626	
	1	1734	961	1018	—	1468	611	
	2	—	—	1063	—	1516	620	
	3	—	—	1154	—	1471	617	
	4	—	—	1212	—	1456	625	
	5	—	—	1217	—	1463	613	
	6	—	—	1259	—	1468	617	
	7	—	—	1286	—	1482	628	
	8	—	—	1367	—	1482	629	5.30

Plate Reversed

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1991phae.proj.1203M

cl – Dk	Mean Defl – Dk	Red Defl	mag	Remarks
851	763	898	offscale ✓	
876	751	859	821 ✓	
845	700	828	780 ✓	
867	413	477	462 ✓	
891	774	866	831 ✓	
849	684	810	760 ✓	
860	665	773	713 ✓	
855	745	871	843 ✓	
864	734	850	811 ✓	
882	704	799	743 ✓	
880	767	872	845 ✓	
884	708	801	750 ✓	
906	591	659	591 ✓	
899	746	830	789 ✓	
897	735	821	725 ✓	
892	781	875	850 ✓	
896	685	765	703 ✓	
878	741	843	802 ✓	
875	777	888	818 ✓	
901	794	881	862 ✓	
857	757	883	862 ✓	
862	104	121	—	
857	407	475	—	
896	443	494	—	
854	537	630	—	
831	587	707	—	
850	604	710	—	
851	642	755	—	
854	658	770	—	
853	738	865	—	

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1931phae.proj.12433M

DLgP - R 43766 - May 9, 1932.

Temp	Plate	y	x	Diff	Diff	Ce	Dk	Bolt.
	10	2084	843	784	—	1138	640	625
	1	1727	903	863	—	1173	642	
	2	—	—	909	—	1210	642	
	3	—	—	953	—	1203	627	
	4	—	—	981	—	1173	632	
	5	—	—	998	—	1197	623	
	6	—	—	1023	—	1202	624	
	7	—	—	1032	—	1172	632	
	8	—	—	1112	—	1178	623	
15.4	✓1	1551	721	1061	1065	1117	623	
15.6	×2	1567	464	1054	1048	1112	617	
	✓3	1559	654	1062	1067	1117	616	
	✓4	1564	829	1054	1052	1108	613	
15.8	✓5	1590	473	984	989	1098	612	
	✓6	1580	691	1061	1083	1120	614	
	✓7	1588	877	1049	1062	1136	616	
16.2	×8	1620	369	1063	1062	1121	614	
	✓9	1620	605	973	932	1128	613	
	✓10	1630	663	1054	1063	1112	611	
	✓11	1633	905	958	989	1133	618	
16.4	×12	1641	962	1098	1093	1132	617	
16.6	✓13	1664	633	992	983	1137	619	
16.8	✓14	1687	656	1030	1028	1126	608	
	✓15	1677	989	1043	1057	1130	606	
17.0	×16	1707	282	1053	1047	1093	613	
	×17	1700	308	938	923	1102	622	
	×18	1706	602	1043	1043	1103	607	
	✓19	1695	757	1014	1017	1123	617	
17.2	✓20	1731	792	1088	1089	1132	612	
17.6	×21	1755	328	1062	1063	1112	601	

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1931phae.proj.1203M

Cl–Dk	Mag. Dep. Dk	Red Dep.	Mag	Remarks
498	64	128	—	
531	221	415	—	
568	267	469	—	
576	326	565	—	
541	349	645	—	
574	375	654	—	
578	399	690	—	
540	400	740	—	
555	489	881	—	
494	440	890	off curve	
495	434	877	off curve	(outside circle)
501	448	896	off curve	
495	440	888	off curve	
486	374	772	757	
506	458	908	off curve	
520	440	847	833	
507	448	888	off curve	(outside circle)
515	325	631	619	
501	447	891	off curve	
515	356	692	678	
515	479	931	off curve	
518	369	713	701	
518	402	774	760	
524	449	859	847	
480	437	909	off curve	
480	314	655	644	(outside circle)
496	446	900	off curve	
506	399	789	774	
520	476	914	off curve	
511	461	903	off curve	

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Kyp-RA 3766 — May 9, 1932

Strip	Star	y	x	Dyc	Dyc	cc	xk	Volts
	✓22	1709	407	1029	1032	1163	603	
	✓23	1741	626	1037	1032	1131	601	
	✓24	1770	703	1029	1030	1122	602	
17.8	✓25	1795	288	1027	1038	1108	599	
	✓26	1780	673	1018	1013	1120	601	
	✓27	1796	678	1037	1047	1133	617	
	✓28	1787	634	1070	1072	1140	602	
	✓29	1778	713	1062	1063	1127	598	
	✓30	1789	729	949	940	1131	593	
18.0	✓31	1803	718	992	1003	1132	618	
	✓32	1810	812	1018	1009	1109	601	
	✓33	1811	882	947	932	1147	603	
	✓34	1800	946	998	1019	1053	612	?
	✓35	1810	1178	1088	1092	1183	602	
18.2	×36 m.m.	1837	259	1086	1073	1152	612	
	✓37	1816	589	1082	1098	1161	608	
	✓38	1817	650	1100	1103	1172	606	
18.4	✓39	1847	861	1068	1048	1218	635	
	✓40	1846	1008	1127	1111	1218	638	
	✓41	1838	1070	1056	1068	1215	638	
18.6	✓42	1863	313	1071	1082	1178	635	
	✓43	1872	400	1126	1115	1188	644	
	✓44	1864	426	1029	1042	1189	651	
	✓45	1864	868	1149	1153	1214	650	
	✓46	1878	928	1168	1161	1236	653	
	✓47	1859	969	1064	1072	1225	648	
18.8	✓48	1882	488	1140	1146	1200	655	
	✓49	1879	766	1117	1156	1213	650	
	✓50	1894	1072	1100	1119	1239	660	
	51	1899	1085	1122	1112	1227	652	

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cc–Dk	mean Diff. Dk	Red Diff.	mag	Remarks
500	427	854	840	
530	433	820	804	
520	428	825	808	
509	433	852	838	
519	415	799	783	
516	425	825	808	
538	469	872	off curve	
529	464	877	off curve	
538	351	651	640	
514	380	737	726	
558	413	740	728	
544	337	620	608	
? 441 (541)	396	898 (730)	718	
581	488	841	824	
540	468	870	off curve	
553	472	852	838	
566	496	875	off curve	
583	423	727	716	
580	481	829	813	
577	434	753	741	
543	441	812	795	
544	476	874	off curve	
538	385	715	704	
564	501	889	off curve	
583	511	875	off curve	
577	420	727	716	
545	488	896	off curve	
563	486	861	848	
579	450	777	763	
575	465	808	793	

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m.m. — RH 3766 — May 9, 1932

Strip	Star	y	x	dyc	dyc	cc	dx	Tab
	18	2074	843	737		1178	649	
	1	1727	903	878		1192	654	
	2	—	—	915	—	1229	644	
	3	—	—	982	—	1229	648	
	4	—	—	998	—	1173	643	
	5	—	—	1018	—	1219	649	
	6	—	—	1058	—	1229	643	
	7	—	—	1057	—	1218	647	
	8	—	—	1115	—	1202	652	5.20

Continued in Book 87, p 2

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cl – Dk	Mean Dep-Dk	Rid Dep	Mag	Remarks
529	88	166	—	
538	224	415	—	
585	271	463	—	
581	334	575	—	
530	355	669	—	
570	369	648	—	
586	415	707	—	
571	410	718	—	
550	463	840	—	

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