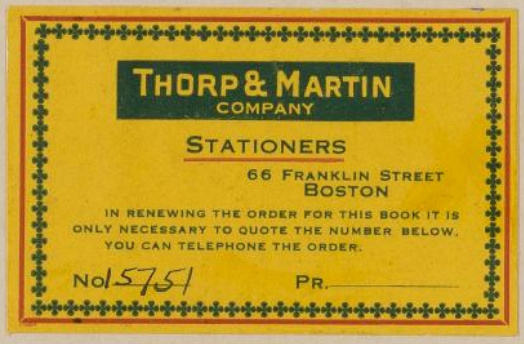
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Contents

		Page
RH	697	4– 24
	3875	26– 50
	698	52– 70
	3781	72– 100
	3782	102– 130
	3826	132– 156
	3825	158– 178
	3672	180– 190
	3673	192– 198
	3873	200– 214
	3874	216– 218

cont in BK 86

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1932phae.proj.12841

2

Galvanometer very unsteady — most readings, ± 5 to 15 uncertainty

P.S.R. — R + 697 — 2/2/32

Stup.	Star	y	x	Diff.	Diff.	Cl.	Klr.	Volts
	13	1963	1038	594	—	2112	290	5.20
	1	1895	680	1037	—	2139	310	
	2	—	—	1353	—	2180	322	
	3	—	—	1393	—	2175	287	
	4	—	—	1372	—	2140	301	
	5	—	—	1494	—	2205	349	
	6	—	—	1773	—	2222	353	
	7	—	—	1817	—	2248	352	
	8	—	—	2050	—	2197	314	
	9	—	—	Too far Couldn't find	—	—	—	
14.0		1416	770	2120	2140	2226	310	5.19
		1400	1027	2110	2104	2188	303	
14.2		1439	896	1991	1997	2203	333	
		1423	1074	2070	2066	2218	321	Galvanometer
14.6		1460	895	2063	2061	2252	328	becoming
14.8		1491	1033	2122	2108	2200	330	steadier.
15.0		1502	1051	1962	1953	2247	329	
15.6		1573	1080	1540	1575	2229	305	
		1574	1368	1408	1416	2227	321	5.17

Omit

Remeasured

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5.17

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P.S.R. – R.A. 697 – 2/3/'32

Stop	Star	Y	X	Defl.	Defl.	Cl.	Dk.	Volts
	ls	1962	948	829	—	2173	266	5.16
	1	1893	590	1230	—	2162	266	
	2	—	—	1485	—	2146	264	
	3	—	—	1542	—	2141	249	
	4	—	—	1548	—	2135	249	
	5	—	—	1608	—	2138	248	
	6	—	—	1783	—	2133	242	
	7	—	—	1802	—	2110	223	
	8	—	—	1966	—	2103	236	
	9	—	—	Not Found	—	—	—	5.15
13.8	* 1	1388	936	2034	2022	2091	247	
~~14.0~~		1399	936					
14.0	* 2	1415	679	2033	2050	2128	273	
14.2	* 3	1421	984	1993	1978	2120	269	
	* 4	1437	806	1972	1972	2137	276	
14.6	* 5	1460	805	1980	1979	2137	272	
14.8	* 6	1490	944	2073	2080	2167	302	
15.0	✓ 7	1501	961	1958	1958	2179	293	
15.6	✓ 8	1573	990	1586 (very near int line)	1620	2128	281	
	* 9	1574	1278	1425	1433	2147	280	
16.0	✓ 10	1600	659	2013	2009	2134	282	
	✓ 11	1600	1170	1692	1677	2137	262	
	✓ 12	1618	1067	1880	1913	2142	264	
	ls	1962	948	772	—	2140	250	
	1	1892	590	1168	—	2132	262	
	2	—	—	1403	—	2094	258	
	3	—	—	1469	—	2110	250	
	4	—	—	1482	—	2134	251	
	5	—	—	1555	—	2130	265	
	6	—	—	1766	—	2125	263	
	7	—	—	1804	—	2117	248	
	8	—	—	1957	—	2116	250	
	9	—	—	—	—	—	—	5.13

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Cl – Dk	Mean Defl. – Db	Red. Defl.	Magn.	Remarks
1907	563	295	—	
1896	964	508	—	
1882	1221	649	—	
1892	1293	684	—	
1856	1299	688	—	
1890	1360	720	—	
1891	1541	815	—	
1887	1579	837	—	
1867	1730	927	—	
1844	1781	966	off curve +	
1855	1769	954	off curve +	outside circle
1851	1717	928	848 +	outside circle
1861	1681	904	818 +	outside circle
1865	1708	915	834 +	outside circle
1865	1774	952	off curve +	outside circle
1886	1665	882	795	
1847	1322	717	635	
1867	1149	616	543 +	outside circle
1852	1729	934	854	
1875	1422	759	672	
1878	1632	870	784	
1890	522	276	—	
1870	906	486	—	
1896	1145	624	—	
1860	1219	656	—	
1883	1231	654	—	
1865	1290	692	—	
1862	1503	808	—	
1869	1556	833	—	
1866	1707	915	—	

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1932phae.proj.1284m

6 Focus different to read light on field unsteady

m.m. – RH 697 – Feb. 4, 1932

Galvanometer rather unsteady P.D. volt.

Trig	Star	y	x	Degl	Degl	Cl.	Dk.	
	1/2	1963	939	762	—	2048	338	6.15
	1	1893	582	1286	—	2065	357	
	2	—	—	1496	—	2089	359	
	3	—	—	1549	—	2129	372	
	4	—	—	1531	—	2113	333	
	5	—	—	1618	—	2103	341	
	6	—	—	1782	—	2097	334	
	7	—	—	1812	—	2096	349	
	8	—	—	1995	—	2103	348	
	9	—	not seen					
16.2	✓13	1621	951	2015	2033	2142	371	
	✓14	1623	1250	1420	1386	2187	400	
16.4	✓15	1647	1052	1864	1860	2168	393	
16.6	✓16	1671	493	1971	1993	2178	392	
16.8	✓17	1687	444	1958	1963	2178	389	
	✓18	1689	568	1949	1963	2229	398	
17.0	✓19	1699	358	1808	1817	2179	401	
	✓20	1704	690	1937	1874	2210	406	
	✓21	1699	986	1947	1908	2187	386	
	✓22	1710	1053	1829	1849	2183	378	
	✓23	1707	1250	1891	1879	2173	382	
17.2	✓24	1730	1328	1572	1587	2205	396	
17.3	✓25	1734	549	2063	2057	2188	349	5.12
17.4	✓26	1742	1350	2047	2057	2172	340	
	✓27	1750	784	2067	2061	2150	326	
17.6	✓28	1765	430	1892	1882	2165	318	
	✓29	1769	661	1554	1550	2120	280	
	✓30	1766	825	1572	1540	2128	325	
	✓31	1769	1004	1898	1883	2120	303	
	✓32	1760	1348	1847	1840	2125	312	

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1932phae.proj.12411

Cl-Dk	mean Dep.-Dk.	Red Dep	Mag.	Remarks
1710	424	247	—	
1708	929	539	—	
1730	1137	657	—	
1757	1177	670	—	
1780	1198	673	—	
1762	1277	724	—	
1763	1448	820	—	
1747	1463	838	—	
1755	1647	938		
1771	1653	935	840	
1787	1003	563	490	
1775	1469	826	735	
1786	1590	892	798	
1789	1571	880	787	
1831	1558	851	758	
1778	1411	795	704+	outside circle
1804	1490	827	736	
1801	1542	857	765	
1805	1461	809	716	
1791	1503	840	748	
1815	1190	656	573	
1839	1711	932	836	
1832	1712	930	835	
1824	1740	953	856	
1847	1569	850	758	
1840	1272	692	604	
1803	1231	684	595	
1817	1587	873	780	
1816	1532	845	753	

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1932phae.proj.1284M

8

P.S.R. – R.H. 697 – Feb. 4, 1932

Galaxy in rather unsteady.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volt.
17.6	✓33	1770	692	2013	2008	2135	320	5.11
	✓34	1772	986	1815	1823	2133	326	
	✓35	1770	1085	1793	1800	2142	307	
17.8	✓36	1782	600	1940	1943	2112	291	
	✓37	1788	914	1867	1855	2127	289	
	✓38	1796	711	2032	2038	2113	286	
	✓39	1792	1339	1308	1283	2140	301	
	✓40	1796	1380	1922	1900	2102	290	
18.0	✓41	1801	1313	1222	1218	2130	299	Galax. getting worse
	15	1962	940	773	—	2135	321	
	1	1893	581	1215	—	2122	324	
	2	—	—	1507	—	2165	322	
	3	—	—	1521	—	2172	333	
	4	—	—	1547	—	2150	333	
	5	—	—	1620	—	2185	338	
	6	—	—	1826	—	2176	329	
	7	—	—	1858	—	2177	327	
	8	—	—	2033	—	2178	320	
	9	—	(Not	seen)				5.10

m.m. – RH 697 – Feb. 5, 1932

15	1962	973	798	—	2171	370
1	1893	618	1282	—	2192	386
2	—	—	1518	—	2195	390
3	—	—	1635	—	2230	392
4	—	—	1605	—	2212	398
5	—	—	1701	—	2240	422
6	—	—	1868	—	2248	428
7	—	—	1932	—	2264	483
8	—	—	2103	—	2260	437
9	—	—	not seen			

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1932phae.proj.12841

Cl-Dk	Mean Dyf.-Dk.	Red Dyf	Mag	Remarks
1815	1690	930	834	
1807	1493	827	736	
1835	1489	810	717	
1821	1651	906	812	
1838	1592	855	764	
1827	1749	955	858	
1839	995	542	472	
1812	1621	895	802	
1831	921	504	440	
1814	452	249	—	
1798	891	496	—	
1843	1185	643	—	
1839	1189	646	—	
1817	1214	668	—	
1847	1282	695	—	
1847	1497	809	—	
1850	1531	827	—	
1858	1713	923	—	
1801	428	237	—	
1806	896	497	—	
1805	1128	625	—	
1838	1243	676	—	
1814	1202	662	—	
1818	1279	704	—	
1820	1440	791	—	
1831	1499	818	—	
1823	1666	914	—	

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1932phae.proj.12841

m.m – RH 697 – Feb. 5, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Orlt.
18.2	✓42	1821	280	1758	1770	2268	465	
18.4	✓43	1848	864	1628	1652	2302	475	
	✓44	1838	1403	1331	1306	2293	463	
18.6	✓45	1873	1080	1810	1815	2314	448	
	✓46	1878	1816	2005	1975	2308	457	
	✓47	1867	1438	1901	1899	2292	459	
18.8	✓48	1886	680	2099	2093	2318	469	
19.0	✓49	1909	1290	1748	1692	2304	450	
19.2	✓50	1928	1383	1988	2005	2278	451	
	✓51	1926	1409	2135	2146	2310	458	
19.4	✓52	1938	990	2006	2018	2310	468	5.24
A.S.R.	✓53	1940	1388	1685	1678	2270	404	
	✓54	1950	1434	2088	2102	2256	398	
	✓55	1958	373	2021	2032	2256	390±10	
	✓56	1954	1285	2077	2072	2267	402	
	✓57	1950	1433	2098	2123	2255	396	
19.6	✓58	1962	264	2073	2048	2239	395	
	✓59	1960	444	2052	2062	2259	378	
	✓60	1978	335	2084	2087	2230	380	
	✓61	1977	1124	2077	2068	2220	390	
19.8	✓62	1988	463	1373	1367	2212	383	
	✓63	1983	496	1782	1742	2230	383	
	✓64	1981	1044	1637	1612	2258	390	
	✓65	1981	1156	2147	2130	2232	388	
	✓66	1999	520	2170	2090	2256	397	
	✓67	1992	1025	1989	1957	2234	388	
	✓68	1993	1213	1900	1898	2237	396	
20.0	✓69	2000	294	1867	1977	2210	400	
	✓70	2008	888	2087	2077	2257	399	
	✓71	2013	935	2166	2154	2237	398	5.21

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Cl - Dk	Defl. Dk.	Red Defl	Mag	Remarks
1813	1309	721	638+	outside circle
1827	1165	638	560	
1890	855	468	415	
1866	1374	737	654	
1851	1533	828	743	
1833	1441	795	708	
1849	1627	880	797	
1854	1270	685	605	
1827	1545	847	763	
1852	1682	910	827	
1852	1554	839	753	
1866	1278	685	605	
1858	1697	912	828	
1866	1636	877	794	
1865	1672	897	813	
1859	1714	923	840	same star as 54
1844	1665	903	818+	outside circle
1881	1679	892	806	
1850	1706	923	840+	
1830	1682	920	837	
1829	987	542	474	
1847	1379	745	662	
1868	1234	662	582	
1844	1750	948	off curve	
1859	1733	934	852+	
1846	1585	859	774	
1841	1503	817	732	
1810	1522	842	755+	outside circle Large difference in deflection readings
1858	1683	907	825	
1859	1762	958	off curve	

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P. S. R. - R. A. 697 - Feb. 5, 1932

Strip	Star	y	x	Diff.	Diff.	Cl.	Hk.	Volts
20.0	×72	2011	967	2103	2119	2235	391	5.21
	√73	2017	1430	2008	1974	2226	399	
	ls	1961	974	837	—	2245	389	
	1	1893	617	1257	—	2230	393	
	2	—	—	1534	—	2220	400	
	3	—	—	1609	—	2230	391	
	4	—	—	1587	—	2222	395	
	5	—	—	1686	—	2224	391	
	6	—	—	1849	—	2207	390	
	7	—	—	1883	—	2210	400	
	8	—	—	2053	—	2200	391	
	9	—	— Not	— Seen				5.20

P. S. R. - R. A. 697 - Feb. 6, 1932

	ls	1962	973	940	—	2080	393	5.26
	1	1892	616	1347	—	2097	412	
	2	—	—	1566	—	2080	409	
	3	—	—	1618	—	2082	405	
	4	—	—	1585	—	2090	408	
	5	—	—	1663	—	2078	402	
	6	—	—	1814	—	2073	402	
	7	—	—	1839	—	2060	395	
	8	—	—	1982	—	2091	393	
	9	—	— Not	found				
20.2	√74	2033	335	1886	1870	2049	385	5.25
	×75	2028	469	1963	1964	2050	365	
	√76	2019	1266	1853	1862	2031	392	
	√77	2031	870	1846	1847	2067	382	
20.4	√78	2057	860	1904	1939	2117	392	
20.6	√79	2077	938	2052	2033	2053	355	5.24

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1932phae.proj.12840

Ce-Dk	Means Defl.-Dk.	Red Defl	Mag	Remarks
1844	1720	933	850 +	
1827	1592	872	786 ✓	
1856	448	241	—	
1837	864	472	—	
1820	1134	623	—	
1839	1218	662	—	
1827	1192	653	—	
1833	1295	707	—	
1819	1459	803	—	
1810	1483	820	—	
1809	1662	920	—	
1687	547	324	—	
1685	935	554	—	
1671	1159	692	—	
1677	1213	724	—	
1682	1177	700	—	
1676	1261	754	—	
1671	1412	845	—	
1665	1444	868	—	
1698	1589	935	—	
1664	1490	896	796 ✓	
1685	1599	950	off curve +	
1639	1466	895	795 ✓	
1685	1464	868	763 ✓	
1725	1531	887	786 ✓	
1698	1687	994	off curve	

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P.V.R. – R.A. 697 – Feb. 6, 1932

Trip	Star	y	x	Diff.	Diff.	Cl.	Mk.	Mts.
20,6	✓80	2075	1216	1317	1249	2094	374	5,24
20,8	✓81	2095	1463	1904	1898	2103	392	
21,0	✓82	2100	394	1577	1548	2096	387	
	✓83	2099	511	1452	1400	2091	390	
	✓84	2101	1325	1847	1830	2109	398	
	✓85	2113	930	1947	1943	2137	391	
	✓86	2118	1350	1487	1479	2084	383	
	1s	1961	973	874	2103	—	392	
	1	1892	615	1302	2096	—	383	
	2	—	—	1478	2059	—	387	
	3	—	—	1547	2062	—	380	
	4	—	—	1529	2077	—	393	
	5	—	—	1601	2072	—	385	
	6	—	—	1738	2066	—	394	
	7	—	—	1832	2098	—	393	
	8	—	—	1950	2089	—	388	
	9	—	—	Not seen				5.21

m.m – RH 697 – Feb. 8, 1932 — 6.21

1s	1962	963	732	—	2089	310
1	1893		1190	—	2100	318
2	—	—	1457	—	2090	340
3	—	—	1559	—	2160	359
4	—	—	1567	—	2171	368
5	—	—	1659	—	2161	371
6	—	—	1848	—	2189	373
7	—	—	1879	—	2192	372
8	—	—	2042	—	2152	378
9	—	—	not seen			
21.2 ✓87	2129	627	1882	1863	2153	386

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1932phae.proj.12840

Cl.-Dk.	Dejf.-Dk.	Red. Dejf.	Magn.	Remarks
1720	909	529	416	
1711	1609	881	777	
1709	1175	688	573	
1701	1036	608	494	
1711	1440	841	729	
1746	1554	891	790	
1701	1100	647	530	
1711	482	382	—	
1713	919	535	—	
1672	1091	653	—	
1682	1167	694	—	
1684	1136	673	—	
1687	1216	723	—	
1672	1344	804	—	
1705	1439	842	—	
1701	1562	919	—	
1779	422	237	—	
1782	872	490	—	
1750	1117	638	—	
1801	1200	667	—	
1808	1204	665	—	
1790	1288	720	—	
1816	1475	813	—	
1820	1507	827	—	
1774	1664	937	—	
1767	1471	834	734	

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1932phae.proj.1284m

M. M— RH697— Feb. 8, 1932

Strip	Star	y	x	Decl.	Decl.	Cl.	Dk.	Wolf.
	88	2135	582	1929	1932	2106	401	
	89	2134	775	1791	1838	2118	402	
	90	2129	1251	1829	1337	2163	406	
	91	2122	1298	1775	1746	2178	396	
	92	2134	1299	1883	1902	2152	392	
21.4	93	2147	417	1773	1763	2180	394	
21.6	94	2167	1228	1433	1421	2173	383	
21.8	95	2188	392	1706	1708	2152	388	
	96	2193	709	1681	1689	2153	382	
	97	2187	1253	1292	1272	2172	389	
	98	2188	1352	1887	1830	2151	382	
22.0	99	2200	658	1867	1862	2140	386	
	100	2207	936	1300	1298	2148	373	
	101	2200	949	1571	1558	2155	376	
22.2	102	2235	894	2000	2004	2165	391	
22.4	103	2255	608	1831	1828	2127	379	
	104	2247	616	1636	1598	2162	385	
	105	2252	625	1786	1812	2128	380	
	106	2241	770	1391	1371	2132	373	
	107	2241	1109	1442	1450	2123	357	
	108	2246	1142	1749	1783	2108	368	
22.6	109	2261	382	1419	1422	2102	371	
P. S. A.	110	2262	531	1773	1768	2138	350	5.20
	111	2260	667	1928	1910*	2118	377	
	112	2260	760	2026	2017	2130	376	
	113	2269	1131	2003	2015	2147	366	
	114	2278	401	1892	1865	2124	378	
	115	2271	460	1872	1866	2118	376	
	116	2270	600	1900	1904	2084	368	5.19
	117	2260	667	1959	1959	2115	376	

Repeat

*Chronometer very wild — drifted jerkily from 1920 to 1860 and returned testingly to higher around 1910

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1932phae.proj.1284m

Cl.–Dkr.	Means Dsgl. Dkt	Red Dsgl	Mag.
1705	1529	897	797
1716	1412	825	725
1757	927	528	448
1782	1364	765	667
1760	1500	853	753
1786	1369	767	669
1790	1044	584	495
1764	1319	746	648
1771	1302	735	637
1783	893	502	427
1769	1476	835	735
1754	1478	841	741
1775	926	523	444
1779	1188	668	570
1774	1611	909	808
1748	1451	830	730
1777	1232	695	596
1748	1419	810	710
1759	1008	563	477
1766	1089	616	525
1740	1398	803	704
1731	1049	605	515
1788	1420	795	697
1741	1542	887	787
1754	1646	936	840
1781	1553	872	772
1746	1500	858	758
1742	1493	857	757
1716	1534	895	795
1739	1583	911	811

Remarks

mags. on this page much brighter than those for RH 3529

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1932phae.proj.1284m

DLR - RH 697 - Feb. 8, 1932.

Thick	Star	y	x	Diff	Diff	Cl	Dk.	Volts
22.8	✓118	2282	569	1932	1949	2083	369	5.19
	✓119	2280	1221	1922	1917	2112	365	
23.0	✓120	2304	535	1562	1541	2073	359	
	✓121	2308	724	1842	1830	2101	377	
	✓122	2302	760	1998	1997	2108	364	
	✓123	2305	773	1464	1423*	2125	368	
	✓124	2308	854	1530	1558	2123	363	
	✓125	2301	1023	1700	1674	2092	369	
	✓126	2313	598	1957	1943	2074	369	
23.2	✓127	2329	590	1235	1170	2095	360	
	✓128	2321	618	1913	1918	2097	364	
	✓129	2328	923	2024	2026	2104	360	
	~~130~~	~~1961~~	~~963~~	~~848~~	—	~~2010~~	~~364~~	
	~~131~~	~~1893~~	~~606~~	~~1292~~	—	~~2125~~	~~367~~	
	~~132~~	—	—	~~1493~~	—	~~2090~~	~~353~~	
	~~133~~	—	—	~~1542~~	—	—	—	5.10
23.4	✓134	2351	492	1863	1857	2073	372	
	✓131	2350	553	1988	1928	2062	378	
	✓132	2356	572	1800	1812	2059	377	
	✓133	2357	619	1907	1900	2068	377	
	✓134	2349	817	1942	1944	2089	366	
	✓135	2350	1098	1908	1912	2079	372	
23.6	✓136	2358	568	1702	1672	2052	364	
	✓137	2364	570	1550	1538	2063	368	
	✓138	2376	571	1623	1594	2061	373	
	✓139	2370	603	1528	1497	2067	387	
	✓140	2369	624	1497	1477	2072	383	
	✓141	2372	1022	1924	1902	2102	388	
	✓142	2361	1199	1860	1873	2077	387	
	143	2370	1252	1784	1782	2079	381	

* - Spot on image, making reading too low probably.

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1932phae.proj.12841

Cl.–Dk.	Meanl. Defl–Dk.	Red Defl	Mag	Remarks
1714	1571	916	816	
1747	1555	891	790	
1714	1193	697	599	
1724	1459	846	746	
1744	1634	937	840	Mags on this page much brighter than on RH 3529.
1757	1076	613	522	
1760	1181	672	574	
1723	1318	763	664	
1705	1581	928	828	
1735	842	486	416	
1733	1552	897	797	
1744	1665	958	off faint	
1701	1488	873	773	
1684	1552	921	821	
1682	1429	848	749	
1686	927	550	466	
1726	1580	916	816	
1707	1538	900	800	
1688	1323	785	687	
1695	1176	694	594	
1688	1235	733	635	
1680	1115	664	566	
1689	1104	655	559	
1714	1525	890	790	
1690	1477	875	775	
1698	1402	827	727	

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1932phae.proj.1284m

Alp. – RH 697 – Feb. 8, 1932.

trip	Star	y	b	Defl	Defl	cc	dk	Volts	
	✓144	2358	1258	1936	1928	2046	369		
23.8	✓145	2393	518	777	804	2038	373		
	✓146	2388	530	1840	1841	2053	381		
	✓147	2388	538	1808	1803	2053	382		
	✓148	2380	548	882	842	2039	391		
	✓149	2393	571	1151	1101	2042	393		
	✓150	2392	573	652	608	2052	393		
	✓151	2389	609	762	741	2053	379		
	✓152	2397	608	1066	1032	2028	382		
	✓153	2380	644	1560	1532	2098	377		
	✓154	2390	799	1660	1639	2113	382		
	✓155	2392	927	1463	1401	2097	381		
	✓156	2392	1039	1740	1722	2108	381		
	1A	1962	963	902	—	2080	380	510	
	1	1893	607	1260	—	2107	377		
	2	—	—	1522	—	2069	372		
	3	—	—	1581	—	2103	392		
	4	—	—	1558	—	2117	376		
	5	—	—	1653	—	2113	383		
	6	—	—	1777	—	2121	380		
	7	—	—	1843	—	2120	374		
	8	—	—	1982	—	2092	382		
	9	—	—	Not	—	seen			

m. m. – RH 697 – Feb. 9, 1932 5.20

1A	1962	977	740	—	2022	423
1	1893	1619	1199	—	2082	437
2	—	—	1442	—	2081	439
3	—	—	1537	—	2102	452
4	—	—	1512	—	2102	459

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1932phae.proj.1284N

α.-Dk.	mean Decl.-Dk.	Red Decl	Mag	Remarks
1671	1563	937	840 +	
1665	417	250	off curve too bright	
1672	1459	871	771	
1671	1424	852	752	mags on this page much brighter than for RH 3524
1648	471	286	273	
1649	733	446	385	
1659	237	143	off curve too bright	
1674	373	223	off curve too bright	
1646	667	405	356	
1721	1169	679	581	
1731	1268	733	634	
1716	1051	614	523	
1719	1350	787	689	
1700	522	308	289	Orbit - polar sequence
1730	883	512	434	
1697	1150	678	580	
1711	1189	695	597	
1741	1182	679	582	
1720	1270	738	640	
1741	1397	803	704	
1746	1469	840	740	
1710	1600	937	840	
1599	317	198	—	
1645	762	464	—	
1642	1003	613	—	
1650	1085	658	—	
1643	1053	641	—	

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1932phae.proj.1284N

m.m. — EH 697 — Feb. 9, 1932

Strip	Stn	y	x	Defl.	Defl.	Cl.	Dk.	volts
	5	—	—	1589	—	2090	459	
	6	—	—	1753	—	2106	469	
	7	—	—	1815	—	2112	462	
	8			1979		2091	473	
	9	—	—	not seen		—	—	
24.0	157	2409	530	955	975	2083	466	
	158	2414	548	1548	1548	2090	455	
	159	2416	561	720	699	2109	469	
	160	2401	560	1780	1782	2105	472	
	161	2407	564	1601	1603	2092	453	
	162	2409	588	1412	1413	2100	432	
	163	2411	601	1914	1906	2088	461	
	164	2414	609	1493	1489	2091	459	
	165	2405	628	1822	1811	2076	463	
	166	2418	623	1633	1656	2102	485	
	167	2417	626	1300	1281	2108	473	
	168	2406	628	1810	1821	2091	481	
	169	2415	638	1668	1667	2106	480	
24.2	170	2426	539	758	752	2104	490	
	171	2433	553	932	940	2101	482	
	172	2432	557	1142	1092	2111	480	
	173	2431	578	1371	1329	2131	491	
	174	2437	585	1699	1701	2108	471	
	175	2428	649	1643	1614	2093	465	
	176	2425	795	1655	1672	2118	464	
24.6	177 measurable first affected by circle	2460	540	989	959	2079	452	
	178	2474	601	1857	1821	2082	442	
24.8	179	2489	670	1340	1326	2078	441	
	180	2489	687	1463	1492	2062	419	
	181	2499	790	1906	1881	2043	411	

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1932phae.proj.1284N

Q.-Dk.	Mean Degl.-Dk.	Red Degl	Mag	Remarks
1631	1130	693	—	
1637	1284	784	—	
1650	1353	820	—	
1618	1506	930	—	
			—	
1617	489	303	354	
1635	1093	670	631	
1640	241	147	off curve too bright	
1633	1309	800	733	
1639	1149	701	654	
1668	980	588	563	
1627	1449	890	810	
1632	1032	634	600	
1613	1353	839	765	
1617	1159	715	667	
1635	817	500	495	
1610	1335	828	756	
1626	1188	730	678	
1614	265	163	252	
1619	454	282	342	?
1631	648	397	423	?
1640	859	523	513	
1637	1329	810	743	
1628	1163	715	667	
1654	1190	718	670	
1627	524	322	370	
1640	1397	852	775	
1637	892	545	530	
1643	1059	644	609	
1632	1483	906	826	

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1932phae.proj.1284m

24

m. m. — RH 697 — Feb. 9, 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volt.
	ls	1963	977	649	—	2039	414	
	1		619	1072	—	2060	400	
	2	—	—	1324	—	2042	420	
	3	—	—	1398	—	2057	420	
	4	—	—	1390	—	2072	412	
	5	—	—	1450	—	2059	416	
	6	—	—	1631	—	2068	438	
	7	—	—	1702	—	2053	438	
	8	—	—	1912	—	2056	442	
	9	—	—	not seen		—	—	5.08

Plate finished

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1932phae.proj.12840

Q.-Dk.	mean. Defl.-Dk.	Red Defl	Remarks
1625	235	145	
1660	672	405	
1622	904	557	
1637	978	599	
1660	976	590	
1643	1034	632	
1630	1193	735	
1615	1264	783	
1614	1470	910	

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1932phae.proj.1284M

XgP - RH 3875 - Feb. 9, 1932.

Strip	Star	Ny	Δ	Diff	Diff Cl	Cl Dk	Volts
	14	1934	920	422	—	1422	273	570
	1	1983	562	707	—	1502	281	
	2	—	—	928	—	1463	277	
	3	—	—	977	—	1478	283	
	4	—	—	993	—	1522	289	
	5	—	—	1043	—	1489	291	
	6	—	—	1144	—	1497	293	
	7	—	—	1168	—	1492	292	
	8	—	—	1328	—	1503	293	
14.0	×1	1401	760	1404	1403	1503	292	
	×2	1410	772	1392	1393	1504	306	
	✓3	1402	797	1221	1233	1502	298	
	×4	1400	823	1213	1303	1482	298	
14.8	×5	1490	766	1442	1438	1523	304	
	×6	1489	801	1396	1392	1513	312	
	×7	1479	887	1387	1392	1493	304	
15.0	×8	1510	1078	1352	1352	1512	299	
15.2	✓9	1526	620	1227	1282	1497	318	
	✓10	1536	1078	1106	1098	1522	319	
15.4	✓11	1503	496	1298	1298	1542	319	
	✓12	1540	570	1322	1328	1538	321	
	✓13	1540	712	1240	1252	1512	318	
	✓14	1540	833	1310	1318	1513	318	
	✓15	1540	996	1333	1346	1507	327	
	×16	1547	992	1353	1362	1498	322	
15.6	✓17	1570	478	810	809	1522	318	
	×18	1560	613	1378	1379	1517	317	
	✓19	1562	980	1033	1042	1492	309	
	✓20	1574	1051	1002	993	1492	313	
15.8	✓21	1588	692	853	851	1494	312	

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1932phae.proj.12841

Cl-Dk	Defl-Dk mean	Red Defl	Mag	Remarks	
1149	149	130	—		
1221	426	349	—		
1186	651	552	—		
1195	694	581	—		
1233	704	571	—		
1198	752	627	—		
1204	851	706	—		
1200	876	730	—		
1210	1035	855	—		
1211	1112	919	off curve		+
1201	1089	905	off curve		+
1204	928	772	7.62		✓
1184	1006	845	8.24		←
1219	1134	930	off curve		+
1201	1082	901	off curve		+
1189	1086	915	off curve		+
1213	1053	869	8.43		+
1179	942	800	7.85		✓
1203	893	735	7.33		✓
1223	979	800	7.85		✓
1217	1004	825	8.07		✓
1194	928	778	7.68		✓
1195	996	835	8.15		✓
1180	1013	860	8.35		+
1176	1036	880	8.52		✓
1204	492	408	4.82		+
1200	1061	885	8.55		✓
1183	729	616	6.37		✓
1179	685	582	6.07		✓
1182	540	457	5.14		

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3 Lyr - R.A. 18 75 - Feb. 9, 1932.

Trip	Star	Y	X	Diff	Diff	Cc	Dk	Volts
	✓22	1580	951	1198	1210	1490	308	
16.01	×23	1611	557	1372	1353	1512	312	
	×24	1609	812	1358	1352	1512	311	
	↓25	1600	903	1222	1198	1480	320	
	↓26	1600	1130	1248	1258	1492	313	
	✓27	1603	1153	1197	1190	1498	312	
	×28	1602	1192	1367	1388	1494	317	
16.2	×29	1620	535	1400	1382	1510	322	
	✓30	1630	637	1102	1081	1492	317	
	31	1632	898	1078	1073	1473	317	
	×32	1629	920	1322	1314	1478	309	
	✓33	1620	991	895	900	1453	310	
	✓34	1637	984	1177	1186	1467	302	
	×35	1630	1110	1347	1340	1467	306	
	×36	1619	1139	1338	1342	1442	303	
	×37	1630	1215	1323	1323	1442	310	
16.4	✓38	1640	872	1182	1183	1442	304	
	✓39	1651	966	1192	1187	1452	314	
	1S	1934	926	447	—	1439	312	500
	1	1983	662	710	—	1500	318	
	2	—	—	942	—	1462	310	
	3	—	—	980	—	1457	320	
	4	—	—	959	—	1508	317	
	5	—	—	1063	—	1471	311	
	6	—	—	1088	—	1466	313	
	7	—	—	1153	—	1453	312	
	8	—	—	1286	—	1458	307	

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1932phae.proj.12841

Cl - Dk	Defl - Dk (mm)	Red Defl	Mag.		Remarks
1182	896	758	7.52	✓	
1200	1050	875	8.48	+	
1201	1044	870	8.44	+	
1160	890	767	7.59	✓	
1179	940	797	7.84	✓	
1186	882	744	7.40		
1177	1061	903	off curve	+	
1188	1029	865	8.40	x	
1175	775	660	6.70	✓	
1156	759	656	6.67	✓	
1169	1009	863	8.38	+	
1143	588	515	5.56	✓	
1165	880	755	7.49		
1151	1038	900	off curve	+	
1139	1037	911	off curve	+	
1132	1013	895	8.65	+	
1138	878	772	7.62	✓	
1138	875	770	7.61		
1127	135	120	—		
1182	392	346	—		
1152	632	548	—		
1137	660	581	—		
1191	642	539	—		
1160	752	649	—		
1153	775	672	—		
1141	841	736	—		
1151	979	850	—		

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1932phae.proj.12841

m.m.–RH 3875– Feb. 10, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volt.
	b	1934	918	470	—	1398	310	5.23
	1	1983	559	908	—	1498	348	
	2	—	—	1075	—	1463	366	
	3	—	—	1087	—	1528	350	
	4	—	—	1121	—	1500	359	
	5	—	—	1169	—	1509	362	
	6	—	—	1275	—	1538	362	
	7	—	—	1287	—	1523	369	
	8	—	—	1412	—	1555	360	
16.6	× 40	1675	898	1439	1431	1549	376	
	√ 41	1679	907	1353	1367	1534	366	
	√ 42	1671	993	1321	1323	1541	372	
	√ 43	1671	1010	1341	1335	1552	370	
	√ 44	1663	1293	1359	1362	1576	378	
16.8	√ 45	1695	893	1170	1173	1559	381	
	√ 46	1695	950	1165	1171	1569	381	
	√ 47	1687	1000	1331	1351	1582	380	
	× 48	1689	1201	1460	1459	1582	398	
	√ 49	1678	1262	1358	1343	1582	378	
	√ 50	1694	1283	938	941	1600	365	
17.0	× 51	1701	871	1462	1423	1600	378	
	× 52	1706	1328	1483	1469	1605	379	
	√ 53	1709	1331	1438	1439	1612	399	
17.2	× 54	1719	742	1486	1479	1620	408	
	√ 55	1730	1082	1069	1072	1590	390	
	√ 56	1734	1190	1093	1117	1598	382	
17.4	√ 57	1757	610	1395	1389	1621	393	
	√ 58	1741	830	1393	1402	1612	400	
	√ 59	1755	910	1063	1095	1588	400	
	√ 60	1739	920	1349	1342	1577	404	

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1932phae.proj.12841

c-Dk	Dyl-Dk	Red Dyl	Mag.	Remarks
1088	760	147	—	
1150	560	487	—	
1097	709	646	—	
1178	731	620	—	
1141	762	668	—	
1147	807	703	—	
1176	913	778	—	
1154	918	796	—	
1195	1052	882	—	
1173	1059	901	8.52	+
1168	994	850	7.93	✓
1169	950	814	7.54	✓
1182	968	819	7.59	✓
1198	981	820	7.60	✓
1178	791	673	6.12	✓
1188	787	663	6.02	✓
1202	961	800	7.40	
1184	1062	898	8.50	+
1204	972	808	7.48	✓
1235	575	466	4.44	✓
1222	1064	870	8.16	+
1226	1097	895	8.45	+
1213	1039	855	7.99	✓
1212	1074	885	8.35	+
1200	680	567	5.19	✓
1216	723	595	5.43	✓
1228	999	815	7.56	✓
1212	998	824	7.64	✓
1188	679	573	5.23	✓
1173	942	804	7.43	

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1932phae.proj.12841

M.M. — RH 3875 — Feb. 10, 1932

Slip	Star	y	x	Dcyl.	Dcyl.	α	Dk.	volt.
	J 61	1744	990	1352	1347	1610	401	
17.6	↓ 62	1766	1078	1414	1426	1631	412	
17.8	↓ 63	1795	1081	1464	1482	1616	401	
	1s	1934	918	611	—	1609	392	
	1	1983	559	910	—	1597	378	
	2	—	—	1112	—	1564	373	
	3	—	—	1139	—	1552	366	
	4	—	—	1144	—	1589	370	
	5	—	—	1229	—	1578	388	
	6	—	—	1309	—	1592	388	
	7	—	—	1321	—	1573	388	
	8	—	—	1452	—	1581	390	5.2

~~Sup — RH 3875 — Feb 10, 1932~~

	1s	1934	904	403	—	1207	243	5.10
	1	1983	546	738	—	1282	257	
	2	—	—	868	—	1238	260	
	3	—	—	928	—	1257	268	
	4	—	—	918	—	1300	267	
	5	—	—	966	—	1273	272	
	6	—	—	1054	—	1290	275	
	7	—	—	1072	—	1277	263	
	8	—	—	1182	—	1293	283	
18.0	× 64	1810	809	1252	1249	1308	300	
	↓ 65	1811	957	839	839	1314	293	
	× 66	1801	1210	1248	1293	1333	293	
	× 67	1801	1223	1243	1272	1327	293	
18.2	↓ 68	1830	470	1103	1152	1363	278	
18.4	↓ 69	1850	729	1102	1103	1360	312	
	↓ 176	1851	1013	1051	1039	1368	312	
	↓ 71	1863	1013	1122	1122	1347	312	

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1932phae.proj.12841

a − Dk	Deff.-Dk Mean	Radial	mag		Remarks
1209	948	785	7.25	✓	
1219	1008	828	7.70	✓	
1215	1072	882	8.30		
1247	219	180	—		
1219	532	438	—		
1191	739	619	—		
1186	773	654	—		
1219	774	635	—		
1190	841	707	—		
1204	921	764	—		
1185	933	788	—		
1191	1062	892	—		
964	160	166	—		
1025	481	470	—		
978	608	623	—		
983	660	672	—		
1033	651	630	—		
1001	694	692	—		
1015	779	767	—		
1014	809	797	—		
1010	899	894			
1008	950	943	off curve	+ ✓	
1021	546	535	4.93		
1040	947	912	off curve	+	
1034	955	926	off curve	+ ✓	
1075	874	812	7.54	✓	
1050	790	753	6.94	✓	
1056	743	704	6.48		
1035	810	783	7.25	✓	

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1932phae.proj.12841

Agp-R 74 3875 - Feb. 10, 1932.

Slips	Star	y	x	dyf	dyf	Cl	Dk Volts
	×72	1840	1054	1232	1249	1370	312
	×73	1841	[illegible]	1268	1263	1367	323
18.6	✓74	1868	527	888	900	1380	312
	×75	1869	877	1293	1277	1367	322
	×76	1860	962	1242	1247	1338	310
	✓77	1872	1064	1022	1007	1348	310
	✓78	1870	1092	868	867	1352	309
18.8	✓79	1880	960	1257	1257	1360	322
	×80	1881	967	1322	1313	1377	326
	×81	1880	1126	1292	1290	1381	312
	✓82	1884	1260	1272	1277	1440	313
	✓83	1890	1287	1227	1245	1391	318
	✓84	1879	1320	1284	1282	1442	322
	×85	1891	1359	1282	1290	1429	324
19.0	✓86	1896	887	1302	1282	1438	328
	×87	1903	860	1306	1320	1432	320
	×88	1904	891	1353	1329	1432	328
	×89	1910	1217	1343	1336	1420	312
	✓90	1907	1328	1177	1179	1442	325
	✓91	1908	1341	1300	1300	1420	340
	✓92	1897	1347	1280	1283	1449	342
	✓93a	1903	1361	1170	1169	1422	331
	✓93b	1911	1368	1238	1217	1440	341
	14	1934	904	498	—	1338	320
	1	1983	546	797	—	1472	331
	2	—	—	1002	—	1427	332
	3	—	—	1048	—	1422	332
	4	—	—	1032	—	1453	340
	5	—	—	1082	—	1428	336
	6	—	—	1182	—	1442	357
	7	—	—	1190	—	1428	337
	8	—	—	1299	—	1439	336

515

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1932phae.proj.12841

Cl.–Dr.	Dgfl. Pk. Mean	Red. Dgfl.	Mag		Remarks
1058	928	878	8.27	+	
1044	943	904	8.54	✓	
1068	582	546	5.00		
1045	963	921	off curve	x	
1028	934	910	off curve	x	
1038	704	678	6.24	✓	
1043	559	536	4.93	✓	
1038	935	903	8.53	✓	
1054	995	945	off curve	+	
1069	979	917	off curve	x	
1097	961	878	8.28	✓	
1073	918	855	8.02	✓	
1090	961	883	8.32	✓	
1105	962	870	8.20	✓	
1110	964	870	8.20	✓	
1102	983	891	8.41	+	
1104	1013	918	off curve	+	
1118	1037	926	off curve	x	
1117	853	763	7.05	✓	
1090	960	881	8.30	+	
1107	944	853	7.98	✓	
1091	839	766	7.08	✓	
1099	887	809	7.52	✓	
1018	178	159	—		
1141	466	408	—		
1095	670	612	—		
1090	716	657	—		
1113	692	621	—		
1092	746	685	—		
1091	831	763	—		
1091	853	782	—		
1103	963	874	—		

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1932phae.proj.12841

m.m. — RH3875 - Feb. 11, 1932

Strip	Stm	y	x	Dafl.	Dafl	Cl.	Dk.	wolf.
	ls	1934	912	579	—	1500	380	5.18
	1	1983	554	970	—	1578	388	
	2	—	—	1150	—	1553	391	
	3	—	—	1204		1555	389	
	4	—	—	1204	—	1606	381	
	5	—	—	1258	—	1598	396	
	6	—	—	1347	—	1587	400	
	7	—	—	1366	—	1575	401	
	8	—	—	1452	—	1579	399	
19.2	✓94	1921	1077	1418	1392	1582	411	
	×95	1929	1259	1488	1469	1562	409	
	✓96	1918	1306	1222	1197	1562	404	
19.4	✓97	1948	268	1271	1262	1670	395	
	✓98	1956	817	1231	1230	1623	408	
	✓99	1939	1278	1474	1445	1612	399	
	✓100	1951	1280	1441	1427	1613	400	
	✓101	1959	1281	1472	1460	1618	392	
19.6	✓102	1974	498	1232	1219	1631	398	
	×103	1969	718	1495	1507	1635	395	
	×104	1961	1063	1498	1503	1637	406	
	✓105	1963	1156	1301	1278	1618	391	
	✓106	1968	1158	1483	1493	1624	402	
	×107	1969	1320	1514	1501	1609	405	
19.8	×108	1997	283	1517	1529	1658	412	
	✓109	1998	705	1445	1455	1600	393	
	✓110	1989	719	1448	1457	1635	390	
	×111	1991	760	1497	1508	1623	393	
	×112	1979	858	1469	1461	1593	401	
	✓113	1981	1139	1418	1433	1591	412	
	×114	1986	1188	1507	1510	1628	400	

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1932phae.proj.12840

α -Dec.	Deff.-Dk. Mean	Red Deff.	Magn.	Remarks
1120	199	178	—	
1190	582	490	—	
1162	759	654	—	
1166	815	698	—	
1225	823	672	—	
1202	862	716	—	
1187	947	797	—	
1174	965	823	—	
1180	1053	892	—	
1171	994	847	7.78	✓
1153	1069	925	off curve	+ ✓
1158	806	693	6.07	✓
1275	871	684	6.00	
1215	822	677	5.94	✓
1213	1061	875	8.12	✓
1213	1034	853	7.84	✓
1226	1074	877	8.14	✓
1233	828	671	5.89	
1240	1106	892	8.30	+
1231	1094	890	8.30	+
1227	899	733	6.47	✓
1222	1086	888	8.27	✓
1204	1103	915	8.60	+
1243	1111	894	8.33	+
1207	1057	875	8.10	✓
1245	1062	855	7.87	✓
1230	1109	900	8.41	+
1192	1064	893	8.33	+
1179	1014	861	7.95	✓
1228	1108	903	8.43	+

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1932phae.proj.12840

m.m. – RH 3878 – Feb. 11, 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volt.
	115	1979	1242	1341	1322	1589	398	
	1s	1934	912	568	—	1580	389	
	1	1983	554	981	—	1621	388	
	2	—	—	1149	—	1591	393	
	3	—	—	1179	—	1573	395	
	4	—	—	1188	—	1612	395	
	5	—	—	1257	—	1598	401	
	6	—	—	1349	—	1619	408	
	7	—	—	1368	—	1598	408	
	8	—	—	1487	—	1612	410	5.16

m.m. – RH 3875 – Feb. 12, 1932 5.23

	1s	1934	911	587	—	1599	358	
	1	1983	553	963	—	1637	368	
	2	—	—	1179	—	1610	365	
	3	—	—	1251	—	1616	367	
	4	—	—	1259	—	1647	369	
	5	—	—	1299	—	1627	371	
	6	—	—	1388	—	1622	373	
	7	—	—	1411	—	1618	368	
	8	—	—	1508	—	1620	369	
20.0	✓116	2002	739	1426	1427	1666	377	
	✓117	2006	753	1317	1329	1661	372	
	✓118	2005	790	1320	1329	1654	385	
	✗119	2001	1001	1531	1529	1643	382	
	✗120	2009	1380	1559	1557	1657	382	
20.2	✗121	0024	272	1549	1552	1668	384	
	✓122	2029	544	1018	1059	1660	381	
	✗123	2039	572	1522	1519	1648	391	
	✓124	2034	576	1453	1462	1658	386	

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1932phae.proj.12840

Q.-DB.	Defl.-Dk. Mean	Red. Defl.	Magn.	Remarks
1191	934	784	7.05	
1191	179	150	—	
1233	593	481	—	
1198	756	631	—	
1178	784	665	—	
1217	793	652	—	
1197	856	715	—	
1211	941	777	—	
1190	960	808	—	
1202	1077	895	—	
1241	229	185	—	
1279	595	466	—	
1245	814	654	—	
1249	884	709	—	
1278	890	698	—	
1256	928	739	—	
1249	1015	813	—	
1250	1043	835	—	
1251	1139	910	—	
1289	1049	814	7.23	
1289	951	738	6.30	
1269	939	741	6.38	
1261	1148	910	8.37 +	
1275	1176	920	8.49 +	
1284	1166	907	8.33 +	
1279	657	514	4.40	
1257	1129	845	8.16 +	
1273	1073	843	7.55	

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1932phae.proj.1284N

m.m. – RH 3875 – Feb. 12, 1932.

Strip	Star	y	x	Defl.	Defl.	cl.	DB.	volt.	
	×125	2027	1180	1522	1535	1628	392		
	✓126	2032	1383	1411	1388	1628	387		
20.4	127	2044	609	1460	1472	1648	379		
	×128	2041	757	1518	1523	1644	382		
	×129	2050	889	1517	1520	1617	361		
	✓130	2051	928	1241	1243	1604	363		
	×131	2039	999	1501	1492	1618	372		
	✓132	2050	1027	1268	1245	1612	368		
	✓133	2047	1100	1131	1116	1626	373		
	✓134	2043	1387	1466	1455	1618	387		
20.6	✓135	2068	414	1523	1526	1649	389		
	✓136	2070	820	1396	1383	1633	386		
	×137	2070	1060	1515	1508	1622	378		
	✓138	2075	1171	1420	1407	1594	382		
	✓139	2067	1288	1399	1397	1610	378		
	✓140	2061	1339	1390	1392	1592	380		
20.8	✓141	2078	382	1457	1468	1650	386		
	×142	2087	1141	1542	1549	1606	389		
21.0	✓143	2109	471	1373	1370	1638	410		
	✓144	2104	680	1372	1358	1632	393		
	×145	2100	930	1498	1510	1611	388		
	×146	2100	1109	1473	1462	1599	381		
	×147	2115	1135	1510	1519	1598	388		
	×148	2112	1156	1470	1482	1593	387		
	×149	2110	1182	①* 1538	①* 1551	1561	390		
Z.	R, S, R,	–							
21.2	✓150	2128	565	1448	1447	1572	386		5.24
	×151	2130	973	1442	1448	1497	354		
	×152	2130	981	1418	1432	1500	369		
	×153	2119	1002	1453	1457	1549	383		

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1932phae.proj.1284N

α-Dec.	Dafl.-Dec.	Red. Dafl.	Magn.	Remarks
1236	1136	920	8.49 +	
1241	1019	816	7.23	
1269	1087	855	7.70	
1262	1138	902	8.25 +	
1256	1157	920	8.49 +	
1241	879	708	6.98	
1246	1124	903	8.29 +	
1244	988	795	6.98	
1253	751	599	4.98	
1231	1073	871	7.92	
1260	1135	905	8.23	
1247	1004	805	7.11	
1244	1134	914	8.43 +	
1212	1032	850	7.63	
1232	1028	828	7.38	
1212	1011	835	7.47	
1264	1076	852	7.55	
1217	1157	950	off curve +	
1228	962	785	6.88	
1239	972	785	6.88	
1223	1116	912	8.40 +	
1218	1087	894	8.17 +	
1210	1126	932	8.62 +	
1206	1089	901	8.25 +	
1171	①154	132 (985)?	off curve +	
1186	1062	895	8.18	
1148	1091	955	off curve +	
1131	1056	935	off curve +	
1166	1072	920	8.48 +	

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1932phae.proj.1284m

P. S. R. – R.A. 3875 – Feb. 12, 1932

Strip	Star	y	x	Decl.	Decl	Cl.	Dk.	volts
21-2	154	2126	1237	1448	1447	1547	381	
	155	2131	1235	1438	1450	1538	385	
	156	2125	1377	1467	1458	1562	380	
	157	2139	298	1342	1357	1593	391	
	158	2138	444	968	960	1590	380	
	159	2132	1149	1323	1322	1557	375	
	160	2132	1362	1393	Coincided with upper image of another star.	1547	374	
	161	2136	1360	" ← 1290	1360	1562	373	
	15	1933	911	622	—	1543	375	
	1	1983	552	1007	—	1580	380	
	2	—	—	1183	—	1563	370	
	3	—	—	1212	—	1543	369	
	4	—	—	1221	—	1572	373	
	5	—	—	1268	—	1568	377	
	6	—	—	1333	—	1566	379	
	7	—	—	1345	—	1549	367	
	8	—	—	1428	—	1542	358	5.18

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1932phae.proj.12849

Q.–Dk.	Defl.–Dk. mean	Red. Defl.	Magn.	Remarks
1166	1067	915	8.42 ✓	
1153	1059	918	8.45 ✓	
1182	1082	915	8.42 ✓	
1202	959	797	6.98 ✓	
1210	584	483	4.20 ✓	
1182	947	803	7.09 ✓	
1173	1019	868	7.86 +/ ✓	one image measured
1189	987	830	7.41 +/	one image measured
1168	247	−211	—	
1200	627	524	—	
1193	813	683	—	
1174	843	717	—	
1199	848	707	—	
1191	891	749	—	
1187	954	804	—	
1182	978	826	—	
1184	1070	903		

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1932phae.proj.1284m

P.S.R. RH 9875 Feb 13, 1932

Grp	Star	y	x	Diff.	Diff.	Q.	Pk.	Volts
	1s	1934	903	577	—	1494	317	5.25
	1	1983	544	993	—	1518	312	
	2	—	—	1128	—	1484	316	
	3	—	—	1181	—	1487	316	
	4	—	—	1228	—	1570	319	
	5	—	—	1242	—	1505	318	
	6	—	—	1295	—	1512	323	
	7	—	—	1324	—	1508	321	
	8	—	—	1407	—	1503	318	
2.4	✓162	2142	464	1351	1358	1548	322	
	✓163	2148	540	1126	1123	1528	322	
	×164	2149	702	1448	1453	1518	321	
	✓165	2142	1297	1334	1353	1493	317	
	× 166	2148	1330	1359	1356	1478	308	
	×167	2148	1347	1407	1403	1490	313	
	×168	2158	546	1410	1412	1536	314	
	×169	2159	578	1449	1447	1527	319	
	✓170	2156	605	1392	1390	1523	320	
	171	2158	765	1274	1282	1518	324	
	×172	2152	1108	1429	1418	1500	325	
	✓173	2155	1268	1350	1352	1493	328	
	×174	2156	1280	1387	1402	1488	322	
	1s	1933	904	541	—	1480	320	
	1	1982	544	930	—	1517	322	
	2	—	—	1088	—	1504	318	
	3	—	—	1120	—	1488	319	
	4	—	—	1153	—	1531	316	
	5	—	—	1148	—	1492	318	
	6	—	—	1222	—	1472	313	
	7	—	—	1239	—	1446	319	
	8	—	—	1364	—	1490	308	5.21

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1932phae.proj.12411

Cl.-Dk.	Defl.-Dk.	Red. Defl.	Magn.
1177	260	221	—
1206	681	561	—
1168	812	696	—
1171	865	740	—
1251	909	726	—
1187	924	777	—
1189	972	820	—
1187	1003	845	—
1185	1089	907	—
1226	1032	841	7.50 ✓
1206	802	765	6.55 ✓
1197	1129	944	off curve +
1176	1027	871	7.94 ✓
1170	1050	897	8.29 ×
1177	1091	926	off curve ×
1222	1094	895	8.28 +
1208	1129	935	off curve ×
1203	1071	890	8.20 ✓
1194	954	798	6.92 ✓
1175	1099	935	off curve +
1165	1023	881	8.10 ✓
1166	1072	920	8.62 +
1160	221	190	—
1195	608	510	—
1186	770	648	—
1169	801	686	—
1215	837	685	—
1174	830	707	—
1159	909	784	—
1127	920	815	—
1182	1056	892	—

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1932phae.proj.12840

XgP - RH 3875 - Feb 13, 1932

Strip	Star	y	z	Left.	Left.	Ch.	Ch.	Volts.
	1-s	1936	918	462	—	1437	303	510
	1	1982	558	883	—	1497	318	
	2	—	—	1053	—	1470	323	
	3	—	—	1088	—	1463	327	
	4	—	—	1123	—	1490	312	
	5	—	—	1149	—	1463	327	
	6	—	—	1193	—	1483	323	
	7	—	—	1229	—	1470	324	
	8	—	—	1351	—	1483	324	
21.6	×175	2159	560	1388	1400	1521	338	
	×176	2160	592	1438	1438	1532	347	
	✓177	2172	597	1308	1320	1529	342	
	×178	2172	606	1392	1408	1527	327	
	✓179	2159	780	1238	1203	1504	338	
	✓180	2176	973	824	813	1482	334	
	✓181	2170	1227	1083	1088	1492	348	
21.8	✓182	2189	603	1293	1283	1507	343	
	×183	2187	628	1395	1412	1517	332	
	✓184	2187	796	1052	1028	1478	330	
	✓185	2189	1160	1189	1177	1466	342	
22.0	×186	2211	538	1432	1420	1492	357	
	✓187	2210	628	1332	1338	1509	303	
	✓188	2201	713	1110	1088	1493	347	
	×189	2208	908	1382	1392	1464	341	
	×190	2200	1173	1358	1343	1458	332	
22.2	×191	2230	390	1388	1400	1523	332	
	×192	2223	470	1406	1403	1518	343	
	✓193	2221	528	1182	1188	1523	342	
	✓194	2226	1038	1203	1172	1487	342	
	×195	2229	1137	1342	1352	1462	343	

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1932phae.proj.12411

Cl-Dk	Degs.-Dk.	Red. Dgs.	Magn.
1134	159	140	—
1179	565	480	—
1147	730	637	—
1136	761	670	—
1178	811	689	—
1136	822	725	—
1160	870	750	—
1146	905	790	—
1159	1027	885	—
1183	1056	892	8.51+
1185	1091	920	Jeans+
1187	972	819	7.68
1200	1073	894	8.54+
1166	908	780	7.25
1148	484	421	4.02
1144	738	645	5.79
1164	945	813	7.61
1185	1072	905	Jeans+
1148	700	611	5.50
1124	841	746	6.85
1135	1069	941	Jeans+
1156	980	849	7.99
1146	753	659	5.93
1123	1046	932	Jeans+
1126	1024	910	Jeans+
1191	1064	893	8.52+
1175	1061	903	Jeans+
1181	843	714	6.53
1145	846	740	6.81
1119	1004	898	8.57+

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1932phae.proj.1284M

3 JP – RH 3875 – Feb. 13, 1932

Strip	Star	y	x	Δfl	Δfl	Ce	Δk	Volts
	×196	2231	1191	1390	1379	1482	3.53	
	×197	2229	1283	1346	1328	1452	347	
22.4	×198	2263	510	1442	1424	1513	350	
	↓199	2250	988	1330	1282	1473	343	
	×200	2246	1276	1346	1327	1448	338	
	✓201	2239	1299	1267	1252	1448	332	
22.6	✓202	2242	507	1138	1112	1479	334	
	✓203	2272	623	1307	1283	1472	326	
	×204	2268	980	1382	1388	1458	328	
	✓205	2273	1270	1272	1248	1413	322	
22.8	✓206	2288	564	1337	1398	1463	330	
	×207	2290	1086	1366	1373	1442	331	
23.0	✓208	2310	412	1238	1243	1492	318	
	✓209	2300	978	1283	1283	1447	318	
	×210	2310	1096	1342	1332	1432	317	
23.2	×211	2328	485	1358	1362	1442	322	
	✓212	2317	1272	1018	1009	1410	330	
23.4	✓213	2343	459	1338	1338	1476	323	
	×214	2352	491	1362	1372	1483	333	
	✓215	2340	499	1270	1272	1482	322	
23.6	×216	2362	438	1309	1298	1492	337	
	✓217	2360	457	1227	1231	1470	338	
	×218	2365	829	1351	1352	1463	347	
	✓219	2376	1132	828	793	1449	350	
23.8	✓220	2383	560	890	880	1477	360	
	✓221	2386	647	1292	1274	1477	358	
24.0	✓222	2398	664	1304	1310	1492	357	
	✓223	2400	1124	1202	1202	1472	363	
24.2	✓224	2429	1090	1047	1049	1479	357	
24.4	✓225	2451	891	1248	1243	1473	362	

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1932phae.proj.12840

α-Dk.	Defl.-Dk.	Red. Defl.	Magn.
1129	1031	914	Off curve +
1105	990	895	8.54 +
1163	1083	932	Off curve +
1130	963	851	8.01 ✓
1110	998	899	Off curve +
1116	927	830	7.80 ✓
1145	791	693	6.31 ✓
1146	979	853	8.02 ✓
1130	1057	936	Off curve +
1091	938	860	8.12 ✓
1133	1008	889	8.47 ✓
1111	1038	935	Off curve +
1174	922	785	7.82 ✓
1129	965	856	8.06 ✓
1115	1020	915	Off curve +
1120	1038	926	Off curve +
1080	684	633	5.70 ✓
1153	1015	880	8.38 ✓
1150	1034	900	Off curve +
1160	949	817	7.67 ✓
1155	967	839	7.88 + outside circle
1132	891	786	7.31 ✓
1116	1007	903	Off curve +
1099	460	420	4.00 ✓
1117	525	471	4.36 ✓
1119	925	828	7.79 ✓
1133	948	835	7.84 ✓
1109	839	756	6.99 ✓
1122	691	616	5.53 ✓
1111	874	785	7.32 ✓

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1932phae.proj.1284m

XBP – RH 3875 – Feb 18, 1932.

Strip	Star	y	x	dyff	dxff	cc	dk	Volts	
	×226	2440	1142	1368	1360	1493	368		
24.6	×227	2464	617	1409	1422	1520	378		
	✓228	2470	815	1303	1321	1488	372		
	✓229	2409	948	1382	1330	1503	379		
	✓230	2476	1001	850	820	1492	373		
24.8	✓231	2490	1027	1297	1300	1492	376		
25.0	11	1936	918	558	—	1448	387	500	
Plate	1	1982	558	867	—	1537	390		
finished	2	—	—	1059	—	1490	376		
	3	—	—	1090	—	1480	380		
	4	—	—	1101	—	1513	372		
	5	—	—	1123	—	1490	386		
	6	—	—	1198	—	1487	369		
	7	—	—	1233	—	1472	368		
	8	—	—	1347	—	1488	369		

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1932phae.proj.1284M

Ce.-Dk.	Dgl.-Dk.	Rel. Dgl.	Inogn.
1125	996	884	8.43 +
1147	1043	910	Nfcurve +
1111	940	847	7.98 ✓
1124	952	847	7.98 ✓
1119	467	418	3.98 ✓
1116	922	827	7.77 ✓
1061	171	162	—
1147	477	455	—
1114	683	613	—
1100	710	646	—
1141	729	639	—
1104	737	665	—
1118	829	743	—
1104	865	783	—
1119	978	875	—

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1932phae.proj.1284N

M.M. — RH 698 — Feb. 15, 1932.

Strip	Star	y	y	Dyf.	Dyf.	Cl.	Dk.	Volt.
	1/5	1966	951	480	—	1928	402	5.02
	1	1909	592	743	—	1965	423	
	2	—	—	982	—	1949	427	
	3	—	—	1041	—	1978	449	
	4	—	—	1062	—	1960	428	
	5	—	—	1131	—	1986	464	
	6	—	—	1425	—	1998	462	
	7	—	—	1528	—	1998	478	
	8	—	—	1810	—	2031	500	
14.6	×1	1469	792	1818	1815	2039	509	
15.0	✓2	1511	949	1693	1745	2020	489	
15.8	3	1583	978	1260	1242	1980	462	
	✓4	1585	1264	1019	1011	1953	444	
16.0	✓5	1610	1155	1289	1342	1941	449	
16.2	✓6	1628	1052	1678	1689	1962	453	
	✓7	1633	1244	862	845	1960	459	
16.4	✓8	1657	1049	1569	1578	1945	460	
16.8	✓9	1695	440	1679	1698	1978	452	
	✓10	1685	1178	1590	1639	1941	448	5.07
17.0	Dix. R. ✓11	1698	560	1633	1643	1974	452	5.04
	✓12	1710	979	1595	1612	1926	429	Reading very erratic.
	✓13	1712	682	1602	1589	1963	447	
	✓14	1717	1243	1531	1567	1929	423	
17.2	✓15	1721	1049	1469	1486	1938	450	
	✓16	1730	1320	1813	1833	1957	474	
17.4	✓17	1744	541	1823	1836	1963	467	
	×18	1744	1304	1820	1853	1959	462	
	✓19	1743	1320	1128	1147	1962	467	
	✓20	1754	1343	1846	1878	2000	486	
	21							

Galvanometer very slow, and very erratic at times 5.03

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1932phae.proj.1284N

Cl.-Dk	mean. Defl.-Dk	Red Defl	Mag	Remarks
1526	78	51	—	
1542	320	238	—	
1522	555	367	—	
1529	592	388	—	
1532	634	415	—	
1522	667	437	—	
1536	963	627	—	
1520	1050	672	—	
1531	1310	855	—	
1530	1307	857	823+	Outside circle
1531	1230	803	795	
1518	789	630	718	
1509	571	379	569+	Outside circle
1492	867	581	692	
1509	1231	817	802	
1501	395	263	477	
1485	1114	752	771	
1526	1236	810	800	
1493	1166	780	784	
1522	1186	778	783	
1491	1175	785	787	
1516	1149	758	775	
1506	1126	748	769	
1488	1028	690	742	
1483	1349	910	850	
1496	1362	912	851	
1497	1374	918	offame	
1495	671	449	618	
1514	1376	908	849	

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1932phae.proj.1284M

P.S.R. — R. H. 698 - Feb. 15, 1932

Step	Star	y	x	Diff.	Diff.	Cl.	Dk.	Volts
	1A	1966	951	636	—	2130	416	5.03
	1	1909	592	768	—	2023	477	
	2			1020	—	2013	475	
	3	—	—	1112	—	2039	463	
2gp	4	—	—	1094	—	1992	471	
	5	—	—	1160	—	2001	463	
	6	—	—	1442	—	2061	479	
	7	—	—	1542	—	2009	473	
	8	—	—	1822	—	1994	456	
	2gp - R.H. 698 - Feb. 15, 1932							
	1A	1966	951	606	—	2111	491	525
	1	1909	592	908	—	2128	498	
	2	—	—	1187	—	2112	488	
	3	—	—	1272	—	2110	482	
	4	—	—	1247	—	2137	507	
	5	—	—	1287	—	2148	508	
	6	—	—	1650	—	2157	518	
	7	—	—	1670	—	2162	512	
	8	—	—	2033	—	2167	532	
17.6	↓21	1771	1341	1708	1732	2120	527	
17.8	↓22	1791	595	1883	1938	2157	530	
	↓23	1779	656	1312	1321	2157	521	
	↓24	1778	818	1388	1430	2167	524	
	↓25	1782	979	1702	1752	2163	522	
	↓26	1780	998	1828	1833	2143	503	
	↓27	1780	1080	1607	1614	2144	500	
18.0	↓28	1800	907	1797	1822	2147	508	
	↓29	1813	1308	1044	984	2129	500	
	30	1805	1333	1056	1022	2130	503	
	↓31	1809	1373	1833	1842	2108	504	

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1932phae.proj.12840

Cl.–Dk	mean Defe.–Dk	Red Defl	Mag
1614	220	151	—
1546	291	188	—
1538	545	354	—
1576	649	412	—
1521	623	410	—
1538	697	453	—
1582	963	608	—
1526	1069	700	—
1538	1366	886	—
1620	115	71	—
1630	410	252	—
?6 1616	699	400	—
1628	790	485	—
1630	740	454	—
1640	779	475	—
1639	1132	691	—
1656	1158	701	—
1635	1501	948	—
1593	1193	749	760 ✓
1627	1380	847	809 ✓
1636	795	487	615 ✓
1643	885	538	646 ✓
1641	1205	734	755 ✓
1640	1327	810	791 ✓
1644	1110	675	721 ✓
1639	1301	795	784 ✓
1623	514	316	503 ✓
1627	536	329	513 ✓
1604	1334	832	802 ✓

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1932phae.proj.1284m

ZP - RH 698 - Feb. 15, 1932.

Trip	Star	y	x	dleft	Dleft	Cl	dk	Volts
18.2	x32	1820	1449	1424	1752	2109	492	
18.4	v33	1851	1362	900	844	2097	493	
	x34	1850	1450	1677	1692	2123	493	
18.6	v35	1860	822	1203	1257	2143	503	
18.8	v36	1884	1038	1467	1472	2097	512	
	v37	1880	1271	1988	1980	2122	511	
	v38	1880	1396	1602	1559	2137	489	
19.2	v39	1923	639	1900	1922	2128	477	
	v40	1930	1113	1943	1946	2102	477	
	v41	1922	1249	1268	1301	2097	472	
19.4	v42	1900	949	1719	1719	2117	497	
	v43	1941	1341	1762	1732	2104	503	
	v44	1903	1347	1263	1337	2122	498	
	v45	1939	1367	1897	1902	2122	490	
19.6	v46	1969	332	1837	1863	2142	508	
	v47	1970	402	1920	1916	2137	508	
	v48	1968	1242	1800	1847	2097	510	
	v49	1962	1390	1880	1904	2127	512	
	v50	1970	1426	990	890	2120	499	
	1A	1966	951	630	—	2130	500	
	1	1909	592	887	—	2146	501	520
	2	—	—	1120	—	2128	498	
	3	—	—	1188	—	2111	506	
	4	—	—	226	—	2139	511	
	5	—	—	1260	—	2138	503	
	6	—	—	1584	—	2132	510	
	7	—	—	1672	—	2144	508	
	8	—	—	1906	—	2141	507	

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1032phec.proj.12841

Cl.-Pk.	Mean Dgl-Dk	Red Dgl	Mag	
1617	1246	771	773 +	outside circle
1604	379	236	437	
1610	1191	741	759 +	outside circle
1640	727	443	591	
1585	957	604	683	
1611	1473	915	841	
1648	1091	664	767	
1651	1439	870	821	
1625	1467	903	839	
1625	812	500	622	
1620	1222	755	765	
1601	1244	727	758	
1624	802	494	621	
1632	1409	861	818	
1634	1342	820	795	
1629	1410	862	819	
1587	1314	828	800	
1615	1380	855	813	
1621	441	272	471	
1630	130	80	—	
1645	386	235	—	
1630	622	382	—	
1605	682	425	—	
1628	715	440	—	
1635	757	464	—	
1622	1074	662	—	
1636	1164	712	—	
1634	1399	855	—	

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1932phae.proj.1284m

R.S.R. – R.A. 6h8, Feb. 16, 1932

Time	Star	γ and m.m.	π	Diff.	Diff.	C.	Alt.	Volts
	15	1967	983	514		2070	400	5.21
	1	1909	624	817	—	2098	446	
	2	—	—	1098	—	2091	458	Galvanometer
	3	—	—	1184	—	2126	463	slow and
	4	—	—	1215	—	2149	468	erratic.
	5	—	—	1257	—	2136	482	
	6	—	—	1558	—	2150	487	
	7	—	—	1658	—	2172	492	
	8	—	—	1913	—	2143	484	5.20
19.8	51	1989	1112	1857	1887	2163	482	
	52	1997	453	982	962	2150	460	
	53	1993	485	1452	1490	2133	436	
	54	1992	1033	1156	1143	2114	448	
	55	1995	1146	1940	1977	2113	410	
20.0	56	2004	1015	1652	1648	2078	397	
	57	2004	1203	1523	1543	2085	442	Galvanometer
	58	2019	879	1883	1873	2157	470	improving
20.2	59	2033	326	1748	1782	2167	487	
	60	2030	1256	1799	1848	2186	500	
	61	2029	1420	1726	1758	2181	492	
	62	2033	1491	1668	1727	2188	491	
20.4	63	2043	860	1713	1730	2196	477	
20.6	64	2062	851	1848	1928	2172	497	
20.8	65	2087	1208	973	956	2178	510	
21.0	66	2110	387	1359	1392	2174	521	
	67	2109	492	1121	1169	2183	502	
	68	2115	1317	1661	1723	2172	578	
	69	2107	1452	1822	1862	2183	530	
21.2	70	2124	921	1892	1939	2191	539	
	71	2134	1298	1556	1593	2182	531	

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1032phee.proj - 12840

α.-Dk.	Magn. Defl.-Dk.	Red Defl	Mag.
1670	114	61	—
1652	372	225	—
1633	640	392	—
1663	721	434	—
1683	747	445	—
1654	775	470	—
1663	1071	645	—
1680	1166	695	—
1659	1429	861	—
1681	1390	827	820
1690	512	303	511
1697	1035	612	719
1676	701	417	598
1603	1548	965	Nearne
1681	1253	746	783
1643	1091	664	741
1687	1408	834	828
1680	1278	760	790
1686	1324	786	802
1689	1250	741	780
1697	1207	712	765
1719	1245	725	772
1675	1391	831	824
1668	454	272	440
1653	855	517	666
1681	643	382	573
1654	1174	712	765
1653	1312	795	806
1652	1377	833	826
1651	1043	633	730

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1932phae.proj.12840

m.m.- RH 698 - Feb. 16, 1932

Strip	Star	y	x	Dopl.	Dopl	Cl.	Dk.	volt
	✓72	2129	1340	1205	1193	2188	538	
21.4	✓73	2155	417	1608	1652	2210	533	
	✓74	2139	528	1805	1838	2191	533	
	✓75	2145	582	1857	1900	2211	539	
	✓76	2146	777	1671	1723	2191	539	
	✓77	2141	1252	963	982	2172	522	
	✓78	2148	1299	1789	1779	2199	526	
21.8	✓79	2197	392	1557	1560	2191	538	
	✓80	2180	1229	1001	1018	2199	538	
	✓81	2199	1252	852	872	2189	539	
	✓82	2178	1399	1800	1829	2195	548	
	✓83	2194	1433	1129	1168	2185	537	
22.0	✓84	2210	659	1737	1759	2188	530	
	✓85	2202	710	1400	1418	2183	525	
	✓86	2218	936	945	875	2197	528	
	✓87	2210	950	1171	1200	2199	538	
	✓88	2200	1352	1749	1763	2189	538	
	+89							
{ outer circle probably affects measure		2200	1523	1789	1750	2162	528	
	18	1966	983	635	—	2198	540	
	1	1909	624	898	—	2191	543	
	2	—	—	1115	—	2178	533	
	3	—	—	1179	—	2179	535	
	4	—	—	1178	—	2186	538	
	5	—	—	1228	—	2188	535	
	6	—	—	1549	—	2182	540	
	7	—	—	1624	—	2189	541	
	8	—	—	1932	—	2182	543	5.14

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Cl.-Dt.	Defl.-Dt.	Red Defl	Mag
1650	661	402	590
1677	1097	653	735
1658	1289	776	798
1678	1343	800	809
1652	1158	700	757
1650	450	273	440
1673	1233	738	778
1653	1020	617	719
1661	472	384	574
1650	323	196	424
1647	1266	768	792
1648	611	371	566
1638	1198	730	774
1648	884	537	677
1669	382	229	450
1661	648	390	579
1651	1228	743	782
1634	1241	760	789+ outside circle
1658	95	58	—
1648	355	216	—
1645	582	354	—
1644	644	392	—
1658	640	388	—
1653	693	419	—
1642	1009	614	—
1648	1083	657	—
1639	1389	847	—

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1932phae.proj.1284m

2 Jup - R H 698, Feb 16, 1932.

Strip	Star	y	x	Diff	Diff	Ce	Dk	Date
	1A	1970	1023	433	—	1912	366	505
	1	1910	665	598	—	1952	349	
	2	—	—	850	—	1913	348	
	3	—	—	961	—	1932	338	
	4	—	—	888	—	1962	342	
	5	—	—	1082	—	1979	341	
	6	—	—	1307	—	1978	342	
	7	—	—	1432	—	1992	341	
	8	—	—	1760	—	1988	348	
22.2	✓90	2230	662	752	787	1983	348	
	✓91	2219	977	951	780	1990	343	
22.4	✓92	2251	809	828	850	1972	347	
	✓93	2249	923	1690	1692	1962	352	
	✓94	2252	1048	915	980	1956	343	
	✓95	2246	1417	737	762	1967	340	
	✓96	2253	1416	576	578	1942	346	
22.6	✓97	2271	433	1080	1172	1997	342	
	✓98	2271	572	1588	1657	1974	347	
	✓99	2263	648	1536	1570	1973	348	
	100	2258	656	1204	1243	1957	333	
	✓101	2261	664	1557	1506	1982	353	
	✓102	2270	708	1690	1680	1978	352	
	✓103	2270	800	1770	1847	1994	354	
	✓104	2259	1183	1358	1373	1991	350	
22.8	✓105	2289	442	551	1592	1972	309	
	✓106	2280	500	1508	1548	1977	367	
	✓107	2292	609	1716	1754	1964	362	
	✓108	2280	641	1599	1625	1952	359	
	✓109	2280	1172	1698	1710	1948	364	
	✓110	2292	1262	1588	1617	1958	354	

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Cl.-Dt.	Mean Defl-Dt.	Red Defl	Mag	Mag
1559	80	52	–	
1603	249	156	–	
1565	502	321	–	
1594	623	391	–	
1620	546	338	–	
1638	741	454	–	
1636	965	590	–	
1651	1091	661	–	
1640	1412	862	–	
1635	421	255	473	537
1647	423	256	474	538
1625	492	302	513	573
1610	1339	830	823	832
1610	605	376	567	616
1627	409	251	472	534
1596	231	145	377	430
1655	784	474	640	663
1627	1275	784	802	805
1625	1204	743	782	783
1624	871	537	677	688
1629	1179	722	771	773
1626	1323	815	817	823
1640	1454	888	847	869
1641	1016	618	718	722
1613	1213	754	788	790
1610	1161	721	771	773
1602	1373	857	836	850
1593	1253	787	799	807
1584	1340	844	830	842
1599	1248	782	802	802

Smooth curve

$\frac{1559}{1559} \quad \frac{1592 - 1213}{1592 - 2113}$

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1932phae.proj.1284m

α Jp - R.A. 698 - Feb. 16, 1932.

Strip	Star	y	x	diff	diff	Cl	Mk	Volts	
	v111	2294	1394	1747	1734	1937	348		
23.0	v112	2312	1063	1173	1197	1941	348		
	v113	2302	1733	692	670	1928	358		
23.2	v114	2313	576	1204	1146	1942	360		
	v115	2324	638	1737	1777	1948	348		
	116	2331	658	1648	1690	1941	358		
	v117	2319	764	1527	1582	1968	380		
	v118	2317	813	809	828	1953	358		
	v119	2320	897	963	976	1942	354		
	v120	2320	1452	713	712	1913	352		
23.4	v121	2340	630	689	664	1923	348		
23.6	v122	2361	532	1662	1672	1924	343		
	v123	2359	582	1710	1802	1929	357		
	v124	2362	610	1500	1563	1924	339		
	v125	2369	598	1302	1340	1939	343		
	v126	2374	609	1106	1180	1963	344		
	v127	2367	659	738	771	1907	333		
	v128	2360	856	1667	1703	1917	354		
	v129	2360	1137	1614	1650	1929	359		
	v130	2360	1181	1812	1780	1952	358		
	v131	2371	1179	1564	1543	1923	358		
	v132	2370	1298	1643	1710	1938	348		
	1.0	1970	1023	450	—	1941	358	000	
	1	1910	665	594	—	1953	357		
	2	—	—	859	—	1941	348		
	3	—	—	939	—	1888	308		
	4	—	—	863	—	1948	359		
	5	—	—	990	—	1967	365		
	6	—	—	1287	—	1950	362		
	7	—	—	1423	—	1978	368		
	8	—	—	1694	—	1952	364		

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1932phae.proj.12840

Cl.-Dk	Mean. Defl.-Dk	Rd Defl	Mag
1589	1392	879	off curve
1593	837	525	683
1575	278	177	467
1582	815	515	680
1600	1429	893	off curve
1583	1311	829	831
1588	1274	804	817
1595	460	289	560
1588	610	384	622
1551	360	232	520
1575	328	208	497
1581	1324	838	838
1579	1406	890	off curve
1585	1193	753	790
1596	978	613	722
1619	799	494	671
1574	421	365	610
1563	1331	852	849
1570	1273	812	823
1594	1438	901	off curve
1565	1196	763	794
1590	1318	829	831
1583	92	58	—
1596	237	149	—
1593	511	321	—
1530	581	380	—
1589	504	318	—
1602	625	390	—
1588	925	584	—
1610	1065	663	—
1588	1330	838	—

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m.m. – RH 698 – Feb. 17, 1932

trip	Star	y	x	d_{left}	d_{left}	Cc	d_k	Volts
	1s	1966	961	658		1923	438	5.02
	1	1909	601	803	—	1958	455	
	2	—	—	1073	—	1938	462	
	3	—	—	1146	—	1943	463	
	4	—	—	1110	—	1967	464	
	5	—	—	1210	—	1960	475	
	6	—	—	1478	—	1962	479	
	7	—	—	1542	—	1979	473	
	8	—	—	1775	—	1961	474	
23.8	✓133	2396	507	1652	1721	1940	466	
	✓134	2396	514	1626	1600	1928	471	
	✓135	2388	525	569	591	1946	479	
	✓136	2385	548	1290	1320	1930	478	
	✓137	2379	580	1120	1141	1912	472	
	✓138	2398	586	542	553	1912	476	
	✓139	2378	600	1172	1153	1919	465	
	✓140	2388	620	1178	1169	1912	471	
	✓141	2384	999	1608	1681	1900	473	
	✓142	2396	1028	1666	1673	1900	479	
	✓143	2380	1229	1459	1341 (related aerogo image)	1913	473	
	✓144	2392	1346	1651	1663	1901	475	
24.0	(Exc) 146	2401	495	550	581	1909	470	
	✓145	2419	492	762	758	1908	471	
	✓147	2415	528	1379	1383	1907	468	5.00
	✓148	2402	547	938	899	1903	464	
	✓149 double?	2402	549	527	500	1892	456	
	O.d.R. ✓150	2405	585	700	704	1897	423	5.01
	✓151	2400	776	1282	1293	1897	447	
	✓152	2403	903	1016	1038	1913	457	
	153	2403	1016	1468	1092	1907	473	5.01

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1932phae.proj.12841

⊙ - Dk.	Mean Defl. - Dk	Red Defl.	Mag.
1485	220	148	—
1503	348	232	—
1476	611	415	—
1480	683	462	—
1503	646	430	—
1485	735	495	—
1483	999	674	—
1506	1069	710	—
1487	1301	875	—
1474	1220	828	807 ←
1457	1142	785	783 ←
1467	96	66	Deflection too bright
1452	827	569	669 ←
1440	658	457	595 ←
1436	72	50	Deflection too bright
1454	697	480	613 ←
1441	703	487	619 ←
1427	1171	821	802 ←
1421	1191	839	812 ←
1440	*not a mean 986	685	728 ← Large difference in deflection readings
1426	1182	830	807 ←
1439	96	67	Deflection too bright
1437	289	201	391 ←
1439	913	635	702 ←
1439	454	314	497 ←
1436	58	41	Deflection too bright
1474	279	189	371 ←
1450	841	580	675 ←
1456	570	393	553 ←
1434	—	—	—

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P.S.P. – R.H. 698 – Feb. 17, 1932

Stop	Star	y	x	Diff. (Polar Star over Fiducial point)	Diff.	Cl.	Dk.	Volt.	
24.0	154	2410	523	1518	1623	1906	502	5.01	
	155	2419	549	1203	1243	1903	496		
	156	2415	590	1600	1650	1912	493		
24.2	157	2428	470	1733	1723	1901	503		
	158	2430	485	1681	1728	1921	514		
	159	2423	510	1356	1361	1920	510		
	160	2427	515	603	606	1913	501		
	161	2421	564	1809	1803	1958	508		
	162	2423	570	1288	1269	1941	498		
	163	2428	587	1472	1470	1921	492		Images in contact
	164	2427	588	1078	1082	1910	482		
	165	2423	600	1461	1468	1917	498		
	166	2436	501	606	607	1922	492		
	167	2438	611	1407	1417	1910	501		
	168	2434	757	1470	1498	1943	478	5.00	
	169	2437	1313	982	981	1896	472		
	15	1968	960	620	—	1925	478		
	1	1910	600	854	—	1945	480		
	2	—	—	1097	—	1928	497		
	3	—	—	1157	—	1934	473		
	4	—	—	1127	—	1948	487		
	5	—	—	1268	—	1935	493		
	6	—	—	1458	—	1920	478		
	7	—	—	1500	—	1919	474		
	8	—	—	1720	—	1914	473	5.00	

Sup R.H. 698 – Feb 17, 1932

15	1968	928	580	—	1972	406	5.10	
1	1910	569	841	—	2003	409		
2	—	—	1062	—	1993	423		
3	—	—	1160	—	1992	428		

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1932phae.proj.12811

Cl.-Dk.	Mean Defl.-Dk.	Red Defl.	mag
1404	—	—	—
1407	727	516	639
1419	1132	~~800~~	790
1398	1225	876	835
1407	1190	846	817
1410	854	606	690
1412	103	73	off curve. too bright
1450	1298	895	846
1443	780	542	653
1429	964	675	724
1428	598	419	572
1419	966	683	728
1430	114	~~80~~	off curve (too bright)
1309	911	696	735
1465	1006	687	729
1424	510	359	528
1447	142	98	—
1465	374	256	—
1431	600	420	—
1461	684	467	—
1455	640	440	—
1442	775	537	—
1442	980	680	—
1445	1026	710	—
1441	1247	865	—
1566	174	111	—
1594	432	271	—
1570	639	407	—
1564	732	468	—

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1932phae.proj.1284m

Exp. RH 698 - Feb. 17, 1932

Strip	Star	y	x	dbfl	Dbfl	cc	Dk	Notes
	4	—	—	1195	—	2013	437	
	5	—	—	1282	—	2028	424	
	6	—	—	1512	—	2022	453	
	7	—	—	1620	—	2056	456	
	8	—	—	1863	—	2038	408	
24.4	✓170	2444	444	1787	1788	2040	452	
	✓171	2436	469	678	602	2033	462	
	✓172	2443	485	900	907	2022	457	
	✓173	2441	488	1040	1018	2032	461	
	✓174	2440	507	1199	1297	2043	459	
	✓175	2448	517	1682	1632	2034	463	
	✓176	2439	579	1471	1513	2018	458	
	✓177	2448	1242	1492	1527	2039	456	
	✓178	2438	1283	1020	1020	2020	446	
24.6	✓179	2470	470	843	894	2017	463	
24.8	✓180	2492	439	1617	1610	2052	472	
	✓181	2482	530	1788	1762	2032	468	
25.0	✓182	2500	600	1242	1318	2033	480	
	✓183	2500	617	1432	1402	2039	480	
25.2	✓184	2521	488	1764	1820	1993	492	
	✓185	2539	578	803	839	2038	472	
25.4	✓186	2549	647	1042	1054	2007	481	
25.6	✓187	2570	836	1778	1800	2036	478	
25.8	✓188	2080	612	1672	1678	2041	500	
26.0	✓189	2600	904	1727	1793	2033	497	
	✓190	2610	1080	1610	1570	1908	507	
26.2	✓191	2628	1002	1120	1023	2043	498	
	19	1968	928	672	—	2051	492	
Plate	1	1910	569	923	—	2067	488	
finished	2	—	—	1183	—	2052	500	
#	3	—	—	1279	—	2057	500	
	4	—	—	1252	—	2092	570	
	5	—	—	1332	—	2073	509	
	6	—	—	1630	—	2078	502	
	7	—	—	1668	—	2082	502	
	8	—	—	1927	—	2130	572	570

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1932phae.proj.12840

Cl.-Dk.	mean Dgl.-Dk.	Red Dgl.	mag
1576	758	482	—
1601	855	535	—
1589	1079	678	—
1600	1164	727	—
1580	1375	870	—
1588	1336	843	811
1571	178	113	256
1565	446	285	437
1571	568	362	501
1584	789	498	598
1571	1194	761	716
1560	1034	664	708
1583	1053	667	709
1574	574	365	502
1554	406	261	415
1580	1142	723	741
1564	1307	834	807
1553	800	515	611
1559	937	602	670
1501	1300	865	825
1566	349	223	375
1526	567	372	510
1558	1311	843	810
1541	1175	762	712
1536	1263	823	801
1401	1083	772	772
1545	594	385	519
1559	180	116	—
1579	435	276	—
1552	683	440	—
1557	779	500	—
1582	742	468	—
1564	823	526	—
1571	1128	717	—
1575	1155	735	—
1578	1375	875	—

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1932phae.proj.1284m

P.S.R. - R.A. 3781 - Feb. 28, 1932

Strip	Star	y	x	Eff.	Diff.	α	Sk	Volts
	15	1923	860	528	—	983	405	5.16
	1	2108	548	707	—	1011	403	
	2	—	—	748	—	1001	413	
	3	—	—	798	—	1012	421	
	4	—	—	830	—	1015	422	
	5	—	—	849	—	1032	436	
	6	—	—	873	—	1037	439	
	7	—	—	908	—	1048	442	
	8	—	—	948	—	1015	429	
13.8	✓1	1398	812	912	930	1017	443	
	✓2	1390	874	968	974	1010	437	
	✓3	1399	914	963	955	1013	439	
14.0	✓4	1404	562	920	945	1017	443	(Upper image against side line)
	✓5	1408	820	889	900	1021	437	
14.2	✓6	1428	498	790	790	892	435	(#8 - 820 - α 883)
14.6	✓7	1461	642	780	778	880	439	
	✓8	1471	727	817	803	893	443	
	✓9	1475	1023	774	777	892	440	
	✓10	1470	728	897	892	990	432	(#8-904, α992)
	✓11	1472	1025	906	910	986	440	
14.8	✓12	1483	434	890	883	987	437	(Galvanometer becoming very unsteady)
	✓13	1481	479	916	921	962	419	
	✓14	1480	655	902	906	978	413	
	✓15	1483	677	880	889	958	420	
	✓16	1488	813	907	908	968	424	
	✓17	1483	840	862	840	970	400	
	✓18	1494	921	883	876	948	408	
	✓19	1496	924	775	769	953	416	
	15	1924	860	493	—	952	417	
	1	2108	548	667	—	970	440	5.13

Notes - At first sudden change in α reading α had just stopped to dot - at record. I had just bumped the table — P.S.R.

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1932phae.proj.12841

Cl.-Dk.	Means Defl.-Dk	Red Defl	Mag.	Remarks
578	123	212	—	
608	304	500	—	
588	335	567	—	
591	377	637	—	
593	408	690	—	
596	413	690	—	
598	434	724	—	
606	466	768	—	
586	519	885	—	
574	478	835	814	
573	534	930	off curve	
574	520	905	898	
574	489	851	832	
584	457	784	760	
457	355	775	748	
441	340	770	743	
450	367	815	792	
452	336	745	718	
558	462	824	801	Impair clear reading noted by measurer.
546	468	856	839	
550	449	815	792	
543	499	919	off curve	
565	491	869	849	
538	464	860	842	
544	484	890	878	
570	451	790	765	
540	471	871	854	
537	356	663	632	
535	76	142	—	
530	227	427	—	

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1932phae.proj.1284m

O. S. R. – R. H. 3781 – Feb. 28, 1932

Temp	Star	J	x	Eff.	Eff.	Cl.	Clk.	Volts.
	2	—	—	723	—	960	408	5.13
	3	—	—	757	—	968	422	
	4	—	—	793	—	980	419	
	5	—	—	782	—	962	426	
	6	—	—	819	—	986	422	
	7	—	—	840	—	987	414	
	8	—	—	877	—	972	426	5.12
		m m – RH 3781 –			Feb. 29, 1932			
	1s	1924	884	578	—	999	488	5.18
	1	2108	571	739	—	1029	496	
	2	—	—	780	—	1013	508	
	3	—	—	817	—	1012	506	
	4	—	—	857	—	1038	501	
	5	—	—	848	—	1029	508	
	6	—	—	872	—	1032	501	
	7	—	—	921	—	1050	508	
	8	—	—	963	—	1029	501	
15.0	✓20	1515	440	867	868	1039	508	
	✓21	1510	876	981	978	1060	515	
15.2	✓22	1526	492	849	842	1041	518	
	✓23	1517	784	912	910	1042	524	
	✓24	1527	908	981	991	1043	520	
double star at 1520, ×1020								
15.4	✓25	1555	639	987	994	1041	520	
	✓26	1549	983	972	970	1022	521	
15.6	✓27	1570	805	986	982	1020	511	
	✓28	1562	951	921	923	1022	520	
	✓29	1559	1182	939	921	1020	521	
15.8	✓30	1599	468	862	858	1018	510	
	✓31	1594	490	910	900	1017	509	
	✓32	1589	629	976	959	1021	508	

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1932phao.proj.12411

Q.-Dk.	Mean Diff-Dk	Red Diff	Mag.
552	315	571	—
546	335	613	—
561	374	665	—
536	356	663	—
564	397	705	—
573	426	745	—
546	451	826	—
511	90	176	—
533	243	456	—
505	272	537	—
506	311	614	—
537	356	660	—
521	340	651	—
531	371	699	—
542	413	761	—
528	462	872	—
531	360	667	6.45
535	465	868	8.58
523	328	628	6.04
518	387	746	7.25
523	466	892	8.39
521	470	903	~~8.55~~
501	450	898	8.90
509	473	930	off curve
502	402	800	7.81
501	409	818	8.00
508	350	688	6.61
508	396	778	7.59
513	458	893	8.90

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1932phae.proj.1284m

m.m. – RH 3781 – Feb. 29, 1932

Strip	Star	y	x	Dyf.	Dyf.	Cl.	Dk.	volt.
	33	1591	653	906	906	1022	512	
	34	1595	801	937	928	1027	509	
	35	1589	818	820	811	1012	509	
	36	1594	901	947	940	1017	512	
	37	1589	1010	788	791	1009	512	
16.0	38	1686	388	902	900	1028	512	
	39	1608	421	816	818	1040	511	
	40	1600	472	946	929	1011	510	
	41	1615	572	920	921	1012	512	
	42	1615	620	850	859	1008	509	
	43	1608	726	962	950	1012	515	
	44	1610	880	878	875	1020	518	
	45	1606	893	963	970	1010	527	
	46	1608	979	850	848	1018	532	
16.2	47	1630	358	939	943	1031	527	
	48	1626	378	803	792	1024	506	
	P.S.R. 49	1625	549	908	903	970	478	5.16
	50	1623	552	882	883	963	498	
	51	1625	912	767	767	972	479	
	52	1628	993	922	919	977	490	
	~~53~~	~~1630~~	~~405~~	~~929~~	~~930~~	~~977~~	~~486~~	
	53	1638	797	910	908	982	502	
	54	1638	832	927	918	976	488	
	56	1639	977	922	923	975	491	
	57	1638	1174	928	927	968	479	
16.4	58	1642	267	929	913	990	472	
	59	1640	405	929	930	977	486	
	60	1646	688	858	857	942	460	
	61	1645	770	852	840	925	477	
	62	1644	935	887	887	973	473	5.14

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1032phae.proj.12811

Cl.-Dk.	meaw. Dgl.-Dk.	Pidsyl	Mag.
510	391	768	749 ✓
518	423	816	800 ✓
503	306	609	585 ✓
505	432	853	841 ✓
497	274	552	530 ✓
516	389	755	738 ✓
529	303	571	549 ✓
501	428	855	842 ✓
500	408	819	801 ✓
499	345	689	662 ✓
497	441	889	880 ✓
512	358	700	677 ✓
483	439	908	905 ✓
486	317	651	628 ✓
504	414	822	810 ✓
515	292	566	541 ✓
492	427	868	858 ✓
465	384	825	811 ✓
493	288	583	560 ✓
487	430	883	ff curve ✓
480	407	850	833 ✓
488	434	890	ff curve ✓
484	431	889	ff curve ✓
489	449	917	ff curve ✓
518	449	866	ff curve 8.54 ✓
491	444	905	ff curve ✓
482	398	826	810 ✓
448	369	820	802 ✓
500	414	829	811 ✓

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1932phae.proj.1284m

P. S. R. – R. H. 3781 – Feb. 29, 1932

Struf	Star	y	x	Dyf.	Dyf.	Cl.	Dr	Volts
16.41 (Cont.)	✓63	1640	1110	823	826	962	472	5.14
	✓64	1652	473	903	905	987	488	
	✓65	1650	532	928	928	983	473	
	✓66	1655	678	884	880	975	486	
	✓67	1659	1113	693	703	991	472	
	✓68	1653	1157	925	910	963	466	
16.6	✓69	1666	368	857	855	983	468	
	✓70	1667	429	903	914	990	476	
	✓71	1660	556	768	780	995	483	
	✓72	1668	840	867	873	997	480	
	✓73	1668	884	918	912	974	471	
	✓74	1665	911	921	923	977	475	
	✓75	1670	998	932	927	983	477	
	✓76	1672	1102	868	862	968	469	
	✓77	1677	377	827	828	972	463	
	✓78	1679	398	890	888	965	465	
	✓79	1676	651	880	878	961	473	
	✓80	1678	800	906	914	968	457	
	✓81	1679	969	910	907	970	469	
	15	1923	884	539	—	967	457	
	1	2108	571 ✓✓	700	—	989	473	
	2	—	—	737	—	974	467	
	3	—	—	769	—	971	474	
	4	—	—	802	—	975	470	
	5	—	—	813	—	977	473	
	6	—	—	843	—	985	478	
	7	—	—	861	—	988	473	
	8	—	—	900	—	977	477	5.10

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1932phae.proj.12941

a.-Pk.	Mean. Defl-Dk.	Red Defl	Mag.
490	352	717	692 ✓
489	416	849	834 ✓
510	455	893	offcurve ✓
489	396	812	800 ✓
519	226	425	421 ✓
497	452	908	offcurve ✓
515	388	753	732 ✓
514	432	828	811 ✓
512	291	569	543 ✓
517	390	755	738 ✓
503	444	880	offcurve ✓
502	447	890	offcurve ✓
506	452	890	offcurve ✓
499	396	792	776 ✓
509	365	717	693 ✓
500	424	850	837 ✓
488	406	831	819 ✓
511	453	889	offcurve ✓
501	439	879	offcurve ✓
516	82	161	—
516	227	440	—
507	270	531	—
497	295	593	—
505	332	657	—
504	340	675	—
507	365	720	—
515	388	754	—
500	423	846	—

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1932phae.proj.1284m

80

2gp - RA 3781 - Feb. 29, 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volts
	1s	1924	888	562	—	903	471	5.10
	1	2109	573	722	—	982	467	
	2	—	—	738	—	942	460	
	3	—	—	787	—	953	472	
	4	—	—	814	—	952	478	
	5	—	—	822	—	958	487	
	6	—	—	858	—	962	477	
	7	—	—	883	—	961	483	
	8	—	—	914	—	969	482	
16.8	✓82	1681	353	922	928	973	493	
77	✓83	1678	379	842	841	978	490	
78	✓84	1680	400	911	914	982	497	
	✓85	1681	477	923	927	953	494	
	✓86	1680	559	862	867	941	490	
	✓87	1681	669	820	813	958	490	
	✓88	1680	743	822	820	945	493	
80	✓89	1679	802	908	919	963	500	
	✓90	1680	819	862	870	962	497	
	✓91	1688	1023	876	880	950	498	
	✓92	1692	1081	920	922	963	502	
17.0	✓93	1701	492	920	913	971	498	
	✓94	1712	568	873	869	953	499	
	✓95	1701	1064	922	927	953	490	
17.2	✓96	1730	431	853	852	963	497	
	✓97	1730	523	922	920	952	488	
	✓98	1728	558	902	903	950	488	
	✓99	1719	581	870	878	949	493	
	✓100	1720	613	911	911	948	488	
	✓101	1720	681	852	847	949	497	
	✓102	1719	690	870	870	952	498	

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1932phae.proj.12841

Cl.-Dk.	Meas. Decl.-Dk.	Red Decl	Mag
432	91	212	—
465	255	547	—
482	278	578	—
481	315	655	—
474	339	715	—
471	935	711	—
485	381	785	—
478	400	835	—
487	432	885	—
480	432	897	851
488	352	719	670
485	415	856	808
459	431	939	off curve
451	374	825	788
468	326	700	650
452	328	728	680
463	414	893	851
465	369	792	741
452	380	841	791
461	419	913	off curve
473	418	885	840
454	372	817	769
463	434	935	off curve
466	355	762	713
464	433	931	off curve
462	414	892	849
456	381	833	784
460	423	920	off curve
452	352	778	728
454	372	816	767

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1932phae.proj.1284m

KJP - RH 3781 - Feb. 29, 1932.

Step	Star	y	x	klyl	klyl	cc	dk	Volts
	✓103	1721	696	882	890	953	483	
	✓104	1730	708	883	889	943	488	
	✓105	1719	773	637	636	922	498	
	✓106	1730	898	901	900	949	500	
17.4	✓107	1738	490	1002	992	1052	492	
	✓108	1751	568	936	936	980	488	
	✓109	1739	863	867	867	940	490	
	✓110	1752	1022	914	916	947	478	
17.6	✓111	1709	390	827	822	962	482	
	✓112	1758	635	867	857	953	488	
	✓113	1771	1073	801	796	942	491	
	✓114	1761	1136	883	884	922	472	
	✓115	1760	1190	787	763	923	484	
17.8	✓116	1791	567	872	868	919	483	
	✓117	1788	812	909	903	938	494	
18.0	✓118	1810	363	902	901	947	468	
	✓119	1800	828	882	878	943	474	
	✓120	1800	882	801	804	950	478	
	✓121	1800	1028	882	890	949	488	
	✓122	1803	1132	917	919	952	500	
	✓123	1800	1149	917	923	907	488	
18.2	✓124	1831	397	880	880	972	480	
	✓125	1820	428	891	890	958	487	
	✓126	1830	430	842	851	959	492	
	✓127	1829	471	899	907	937	474	
	✓128	1829	517	808	792	936	473	
	✓129	1820	568	851	859	928	473	
	✓130	1820	583	890	896	922	469	
	✓131	1830	1240	792	782	932	473	
18.4	✓132 m.m.	1846	329	788	772	990	470	5.02

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1932phae.proj.12841

Cl.-Nk.	mean dep-Nk	Red dep	Mag
470	403	860	812
455	398	875	832
424	137	322	391
449	400	889	845
560	505	900	Bcurve
492	448	914	Bcurve
450	377	837	788
469	431	927	Bcurve
480	344	717	668 X12
465	374	803	752
451	307	680	631
450	412	913	Bcurve
439	291	663	612
436	387	889	845
444	402	902	Bcurve
489	434	887	843
469	406	866	821
472	324	688	639
461	398	863	819
452	418	929	Bcurve
469	432	919	Bcurve
492	406	815	768
471	403	859	810
467	354	756	705
463	429	929	Bcurve
463	327	707	608
455	382	840	791
453	424	935	Bcurve
459	314	685	635
520	310	596	551

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1932phae.proj.1284m

M.m.—R.H. 3781 — Feb. 29, 1932

Strip	Star	y	x	Defl.	Defl	Cl.	Ib.	Volt
	133	1850	418	821	810	984	472	
	134	1852	582	862	860	963	477	
	135	1844	680	913	918	1008	473	
	136	1839	830	888	881	980	482	
	137	1856	873	918	909	968	472	
	138	1847	862	902	902	962	458	
	139	1842	969	870	880	957	470	
18.6	140	1868	483	882	879	952	462	
	141	1859	920	900	910	962	468	
	142	1866	942	839	842	967	462	
	143	1868	954	900	892	943	475	
	144	1862	1021	936	930	980	469	
	145	1875	1172	856	860	961	466	
	146	1864	1218	912	902	952	467	
	147	1868	1289	898	901	946	459	
18.8	148	1880	542	901	908	976	462	
	149	1883	757	918	912	969	478	
	150	1878	881	814	810	948	471	
	151	1882	899	892	890	952	477	
—	152	1891	1086	882	860	961	458	
	153	1889	1076	847	851	942	458	
	154	1885	1149	899	896	952	449	
	155	1882	1167	881	878	939	457	
	156	1895	1171	890	889	940	451	
	157	1885	1282	873	870	930	447	
19.0	158	1910	470	793	787	931	439	
	159	1900	587	831	838	938	442	
	160	1902	702	849	870	930	429	
	161	1903	792	880	880	940	439	
	162	1911	1031	863	859	941	440	

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1932phae.proj.12849

Cl.-Dk.	Means Diff.-Dk.	Red Dyl	Mag.
512	334	654	606
486	384	790	740
535	443	825	778
498	402	804	754
496	444	891	849
509	449	882	840
487	405	831	782
490	418	855	807
494	437	887	843
505	378	748	699
468	421	897	851
511	464	908	868
495	392	790	740
485	440	907	same
487	441	904	same
514	444	864	820
491	437	890	847
477	341	714	667
475	414	870	826
511	421	824	777
484	390	806	755
503	449	895	850
488	429	878	832
489	439	898	852
483	425	880	836
492	351	715	668
496	392	790	741
501	431	860	811
501	441	880	838
501	420	838	789

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1932phae.proj.1284m

m.m. — RH 3781 - Feb. 29, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk. volt.
19.2	163	1932	298	856	840	978	443
	164	1932	520	878	881	945	442
	165	1928	598	780	784	949	441
	166	1936	669	819	802	942	438
	167	1925	713	842	842	943	440
	168	1924	1166	900	903	943	439
19.4	169	1954	525	870	868	949	458
	170	1950	578	890	910	961	458
	171	1948	581	898	902	950	459
	172	1948	727	882	878	957	444
	173	1945	927	882	877	952	453
	174	1950	983	839	840	942	457
	175	1943	1042	872	864	928	451
	176	1949	1178	892	879	949	442
	177	1947	1193	802	789	950	441
19.6	178	1968	350	858	863	958	443
	179	1966	408	880	877	950	449
	180	1965	433	884	880	944	449
	181	1964	458	802	818	958	457
	182	1962	542	897	910	957	452
	183	1974	576	892	900	952	454
	184	1972	613	862	873	948	472
	185	1960	680	910	909	950	470
	186	1961	976	892	900	963	470
	1s	1924	888	571	—	956	478
	1	2108	573	686	—	952	479
	2	—	—	712	—	952	477
	3	—	—	762	—	953	472
	4	—	—	790	—	950	469
	5	—	—	800	—	959	478

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1932phae.proj.1284m

Q.-Dk.	Mean Diff.-Dk.	Red Dye	Mag.
535	405	755	704 ✓
508	438	874	831 ✓
508	341	670	620 ✓
504	372	738	690 ✓
503	402	796	744 ✓
504	463	919	off curve
491	411	836	786 ✓
503	442	878	831 ✓
491	441	897	851 ✓
493	416	845	795 ✓
499	427	855	805 ✓
485	383	790	741 ✓
477	417	875	832 ✓
509	444	873	831 ✓
509	355	697	646 ✓
515	417	810	760 ✓
501	429	853	808 ✓
495	433	874	832 ✓
501	353	705	655 ✓
505	452	892	850 ✓
498	442	885	842 ✓
476	395	830	781 ✓
480	440	916	off curve
493	426	865	820 ✓
478	93	195	—
473	207	437	—
475	235	495	—
481	290	603	—
481	321	666	—
481	322	675	—

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1932phae.proj.12840

m.m. — RH 3781 — Feb. 29, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk	Volt.
	6	—	—	839	—	952	482	
	7	—	—	848	—	971	472	
	8	—	—	888	—	954	464	5.00

P.S.R. — R.H. 3781 — March 1, 1932

	15	1926	932	536	—	958	459	5.20
	1	2108	620	714	—	997	477	
	2	—	—	762	—	972	473	
	3	—	—	796	—	977	463	
	4	—	—	822	—	986	487	
	5	—	—	843	—	989	480	
	6	—	—	892	—	1013	498	
	7	—	—	903	—	1009	507	
	8	—	—	933 (960 / 912)	—	992 (1022 / 979)	492	5.19
19.8	187	1991	364	973	979	1057	510	Galvanometer jumpy
	188	1994	528	963	952	1032	516	
	189	1993	817	952	949	1032	517	
	190	1991	863	958	957	1018	512	
20.0	191	2005	307	946	945	1058	502	
	192	2007	746	948	948	1022	517	
	193	2005	1067	927	914	1016	510	
	194	2008	1228	953	947	1002	497	
	195	2015	377	887	902	1032	500	
	196	2019	543	930	940	990	497	
	197	2016	658	901	899	984	497	
20.2	198	2024	687	899	891	998	494	
	199	2021	770	850	852	981	501	
	200	2022	1023	925	927	977	500	
	201	2022	1085	873	858	978	493	
	202	2035	453	916	917	978	498	
	203	2037	965	865	877	996	502	5.17

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1932phae.proj.12840

Cl.-Dk.	Mean Dupe-Dk.	Red Dupl	Mag	Remarks
470	357	760	—	
499	376	753	—	
490	424	865	—	
499	77	154	—	
520	237	455	—	
499	289	578	—	
514	333	647	—	
499	335	670	—	
509	363	713	—	
515	394	765	—	
502	396	790	—	
500	441	882	—	
547	466	852	800 ✓	
516	441	853	801	
515	433	839	780 ✓	
506	446	880	848 ✓	
556	444	795	729	
505	431	853	801 ✓	
506	410	810	746 ✓	
505	453	895	870 ✓	
532	391	735	618 ✓	
495	438	885	852 ✓	
487	403	825	763 ✓	
504	401	796	730 ✓	
486	350	720	652 ✓	
477	426	892	864 ✓	
485	373	768	700 ✓	
480	418	870	830 ✓	
494	369	748	680 ✓	

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1932phae.proj.1284M

D.D.R. – R.A. 3781 – March 6, 1932

Strip	Star	y	x	Diff.	Diff.	Q.	Obs.	Volts
20,2 (Cont.)	204	2030	972	924	923	996	502	5,17
	205	2030	1092	930	938	998	503	
	206	2038	1384	934	939	987	502	
20,4	207	2042	468	847	851	960	509	
	208	2058	677	903	909	977	499	
	208	2046	472	863	863	975	498	
	210	2058	1229	873	870	987	507	
	211	2059	1277	861	853	962	496	
	212	2059	1360	874	878	971	502	
20,6	213	2077	277	938	938	995	493	
	214	2078	757	903	913	959	508	
	215	2075	904	822	826	979	503	
	216	2060	1010	778	802	970	508	
	217	2076	1022	938	943	1007	520	
	218	2079	1097	890	885	992	516	
	219	2079	1265	946	950	997	503	5,15
	220							
20.8	221	2078	278	922	929	992	504	
	222	2086	372	941	922	982	507	
	223	2081	383	872	868	981	507	
	224	2080	419	932	932	976	510	
	225	2089	522	712	718	952	507	
	226	2090	521	858	862	962	512	
	227	2081	746	922	919	971	517	
	228	2084	822	920	928	963	513	
	229	2088	929	873	873	962	518	
	230	2080	982	842	842	973	532	
	231	2082	1090	861	856	973	529	
	232	2080	1099	868	867	973	524	
21.0	233	2111	482	886	888	980	516	

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1932phae.proj.1284m

Cl.-Dk.	Mean Dyl-Dk	Rel. Diff.	Magn.
494	422	855	805 ✓
495	431	870	829 ✓
485	434	894	off curve ✓
451	340	754	685 ✓
478	407	850	795 ✓
477	365	763	695 ✓
480	365	760	693 ✓
466	361	773	704 ✓
469	374	795	728 ✓
502	445	887	off curve ✓
451	406	886	off curve ✓
476	321	673	613 ✓
462	282	612	560 ✓
487	420	860	812 ✓
476	372	780	713 ✓
494	445	900	off curve
488	422	861	813 ✓
495	425	895	off curve ✓
474	363	765	698 ✓
466	422	902	off curve ✓
445	208	467	453 ✓
456	348	774	705 ✓
454	403	885	off curve ✓
450	411	913	off curve ✓
444	355	800	734 ✓
441	310	704	640 ✓
444	329	740	672 ✓
449	344	765	698 ✓
464	371	800	734 ✓

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1932phae.proj.1284N

KP - R A 3781 - March 1, 1932.

Strip	Star	Y	X	Diff	Diff	Ce	Dk	Calc
	234	2100	686	892	892	953	610	
	235	2102	804	913	913	953	624	
	236	2100	934	913	918	960	612	
	237	2110	1082	800	836	950	606	
21.2	238	2130	366	847	836	962	602	
	239	2133	425	893	896	957	600	
	240	2128	658	836	852	938	607	
	241	2121	706	892	897	941	491	
	242	2121	847	892	897	937	603	
	243	2122	1058	893	901	950	603	
21.4	244	2150	312	873	867	971	600	
	245	2140	395	904	904	958	607	
	246	2139	412	903	910	978	613	
	247	2146	603	931	931	981	613	
	248	2150	652	858	852	982	626	
	249	2140	861	912	909	968	613	
	250	2140	1128	902	880	986	627	
	251	2150	1228	928	930	983	626	
21.6	252	2170	513	940	940	988	627	
	253	2160	709	910	913	981	616	
	254	2170	951	873	868	975	603	
	255	2170	1028	764	760	968	623	
	256	2170	1130	867	880	963	609	
	257	2161	1182	920	927	977	624	
	258	2170	1230	913	912	987	622	
21.8	259	2188	328	856	847	1022	632	
	260	2190	232	958	950	1017	618	
	261	2190	333	916	952	1018	617	
	262	2189	412	963	969	1033	610	
	263	2181	638	929	934	1002	608	

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1932phae.proj.1284m

Cl.-Dk.	Deff-Dk.	Reb. Deff.	Magn.
443	382	885	850
429	389	905	off curve
448	404	900	off curve
444	337	758	692
460	338	735	668
457	394	860	812
431	335	~~768~~ 700	~~458~~
450	403	895	off curve
434	391	902	off curve
447	394	880	844
471	370	785	718
451	397	880	844
465	393	845	788
468	418	891	off curve
459	332	700	636
455	397	873	833
459	364	793	725
460	406	882	846
461	413	895	off curve
465	396	852	797
472	367	778	712
445	239	537	504
454	365	805	740
453	400	885	850
465	390	838	780
490	320	653	594
499	436	875	835
501	417	834	773
523	456	876	835
494	424	860	812

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1932phae.proj.1284m

H. J. P. PH 3781 Mar 5, 1932

Strips	Star	y	x	Defl	Defl	cc	Dk Volt	
	264	2180	1009	832	829	989	572	
	265	2180	1042	873	884	991	521	
	266	2191	1049	940	937	996	520	
	10	1926	932	608	—	907	522	
	1	2108	620	738	—	987	526	
	2	—	—	773	—	977	537	
	3	—	—	809	—	997	582	
	4	—	—	862	—	982	522	
	5	—	—	847	—	993	583	
	6	—	—	882	—	988	523	
	7	—	—	912	—	997	509	
	8	—	—	910	—	984	522	005

m.m. — R1 — 3781 — March 2, 1932

	15	1926	888	461	—	890	404	5.22
	1	2108	577	593	—	893	389	
	2	—	—	652	—	892	400	
	3	—	—	683	—	878	400	
	4	—	—	703	—	880	399	
	5	—	—	718	—	876	401	
	6	—	—	743	—	889	405	
	7	—	—	771	—	900	400	
	8			808		878	399	
22.0	267	2209	332	846	852	911	400	
	268	2201	436	797	795	907	405	
	269	2209	564	810	818	888	399	
	270	2210	568	813	809	889	401	
	271	2212	573	834	822	891	392	
	272	2198	587	842	837	878	397	
	273	2214	722	817	818	880	393	
	274	2215	820	530	531	868	392	

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1932phae.proj.12840

Cl.-Dk.	Mean Defl.-Dk.	Red Defl.	Mag.
477	318	665	606 ✓
470	357	760	692 ✓
476	418	880	846
385	81	210	—
461	212	460	—
440	236	535	—
465	277	595	—
460	310	675	—
460	314	685	—
465	359	771	—
488	403	821	—
462	388	840	—
486	57	117	—
504	204	405	—
492	252	513	—
478	283	590	—
481	304	632	—
475	317	667	—
484	338	700	—
500	371	741	—
479	409	854	— ✓
571	449	879	840 ✓
502	391	780	742 ✓
489	415	849	804 ✓
488	410	840	800 ✓
499	436	875	836 ✓
471	442	938	off curve ✓
487	425	871	830 ✓
476	138	290	356

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1932phae.proj.1284m

M.M. — RH 3781 — March 2, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volt.
	275	2215	883	810	806	874	392	
	276	2202	1007	832	835	872	400	
	277	2199	1230	828	822	871	390	
	278	2210	1264	801	806	871	390	
22.2	279	2224	411	842	850	889	400	
	280	2223	432	789	780	897	398	
	281	2229	440	791	792	883	394	
	282	2234	531	853	858	892	401	
	283	2220	806	826	828	891	393	
	284	2224	874	840	838	888	398	
	285	2233	980	784	789	885	394	
12.4	286	2242	648	788	786	875	407	5.20
	287	2250	427	854	850	886	409	
	288	2251	598	841	832	878	412	
	289	2258	1190	810	820	894	413	
22.6	290	2267	354	806	802	898	408	
	291	2267	725	827	823	862	408	
	292	2277	278	817	820	902	411	
	293	2275	429	869	863	904	406	
	294	2277	505	723	726	889	403	
	295	2278	863	812	814	870	411	
22.8	296	2281	526	885	896	936	419	
	297	2282	549	873	873	913	409	
	298	2293	882	872	868	913	413	
	299	2296	1003	873	873	907	413	
	300	2293	1013	848	860	904	413	
	301	2298	1029	853	870	907	414	
23.0	302	2306	346	846	843	912	401	
	303	2306	890	743	750	920	413	
	304	2304	909	867	858	926	403	5.17

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1932phae.proj.1284m

cl – Dk	mean Defl. – Dk	Red. Defl.	Magn.
482	416	865	824
472	434	920	off curve
481	435	905	off curve
481	414	860	818
489	464	945	off curve
499	386	773	733
489	398	815	775
491	465	926	off curve
498	434	868	828
490	451	920	off curve
491	392	798	758
468	380	810	770
477	443	925	off curve
466	424	907	off curve
481	402	835	794
490	396	807	767
454	416	919	off curve
491	407	830	789
498	460	922	off curve
486	321	659	623
459	402	872	832
517	471	909	off curve
504	464	920	off curve
500	457	915	off curve
494	460	930	off curve
491	441	896	off curve
493	448	910	off curve
511	443	865	824 off curve
507	333	655	619
529	459	879	840

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1932phae.proj.1284M

P. S. R. – R. A. 3781 – March 2, 1932

Strip	Star	y and m.m.	x	Diff	Diff	Cl	Lk	Volts
23.0 (Cont.)	305	2309	1040	877	891	949	418	5.17
	306	2304	1087	811	800	940	413	
	307	2319	709	877	878	940	408	
	308	2319	1137	882	889	938	412	
23.2	309	2327	505	872	880	940	410	
	310	2330	640	877	873	933	412	
	311	2321	870	872	878	932	407	
	312	2337	586	878	879	937	403	
23.4	313	2347	334	888	900	972	406	
	314	2352	409	817	821	947	411	
	315							
	m.m.	2351	783	888	891	932	402	m.m.
23.6	316	2375	440	882	890	939	399	5.17
	317	2369	592	864	872	924	407	
	318	2367	832	852	859	927	412	
	319	2374	1063	886	878	938	407	
23.8	320	2383	706	898	892	930	414	
	321	2388	722	881	883	931	412	
	322	2391	745	862	859	929	413	
	323	2396	962	874	869	932	412	
	324	2387	1008	867	865	929	411	
	325	2394	1054	897	900	932	412	
24.0	326	2412	619	859	860	938	413	
	327	2414	659	747	753	928	416	
	328	2402	697	878	869	932	414	
	329	2402	702	885	881	932	417	
	330	2408	778	873	878	938	422	
	331	2412	792	903	900	950	412	
	332	2402	982	875	879	942	409	
	333	2406	1060	860	882	942	418	
	334	2402	1070	900	900	958	438	

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1932phae.proj.12844

Cl-Dk	Mem. Defl.-Dk.	Rel. Defl.	Magn.
531	466	880	842
527	396	750	710
532	470	885	845
526	474	900	off curve
530	466	880	842
521	463	889	850
525	468	892	off curve
534	475	890	850
566	488	862	820
536	408	762	722
530	488	921	off curve
540	487	901	off curve
517	461	889	849
515	444	860	818
531	475	895	off curve
516	481	930	off curve
519	470	905	off curve
516	447	865	824
520	460	885	845
518	455	875	835
520	486	935	off curve
525	447	850	807
518	340	656	620
518	460	888	849
515	466	905	off curve
516	463	875	835
538	490	910	off curve
533	468	880	842
524	453	865	824
520	462	886	846

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1932phae.proj.12840

m.m. – RH 3781 – March 2, 1932

Strip	Star	y	x	Defl.	Dk.	Cl.	Dk.
24.2	335	2424	449	753	768	968	438
	336	2424	481	896	883	975	432
	337	2419	550	892	892	972	439
24.4	338	2450	751	835	830	968	442
	339	2451	770	919	923	970	441
24.6	340	2467	701	823	812	967	434
	341	2465	1000	862	858	980	442
24.8	342	2480	529	900	890	972	431
	343	2483	708	848	839	960	435
25.0	344	2500	890	757	740	977	439
25.2	345	2519	696	920	922	988	438
	346	2524	631	902	908	968	434
Plate	1s	1926	888	489		928	412
Invalid	1	2108	577	653		951	411
	2			692		932	407
	3			740		935	405
	4			758		932	412
	5			762		929	414
	6			799		938	412
	7			820		940	409
	8			856		922	402

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1032phae.proj - 12940

Ce-Dk	Mean Dye-Dk	Red Dye	Mag.
530	322	608	579 ✓
543	457	845	802 ✓
533	453	850	807 ✓
526	390	740	700 ✓
529	480	906	871 ✓
533	383	719	679 ✓
538	418	776	735 ✓
541	464	855	812 ✓
525	408	778	740 ✓
538	309	574	540 ✓
550	483	877	839 ✓
534	471	882	844 ✓
516	77	149	—
540	242	448	—
525	285	543	—
530	335	631	—
520	346	665	—
515	348	675	—
526	387	735	—
531	411	774	—
520	454	870	—

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1932phae.proj.1284m

Kap - RX 3782 - March 2, 1932

Strip	Star	Y		Diff	Diff	Ce	Ok	Potts
	1A	1921	903	392	—	772	358	515
	1	2114	597	502	—	823	376	
	2	—	—	563	—	798	367	
	3	—	—	601	—	797	380	
	4	—	—	610	—	838	372	
	5	—	—	630	—	812	373	
	6	—	—	673	—	827	372	
	7	—	—	669	—	817	370	
	8	—	—	763	—	818	380	
14.4	✓1	1450	690	720	722	818	384	
14.6	✓2	1470	704	777	776	837	390	
	✓3	1471	727	757	759	812	386	
	✓4	1460	777	732	752	817	392	
	✓5	1472	889	763	757	822	393	
	×6	1469	913	758	772	814	392	
14.8	×7	1486	970	782	798	837	404	
	✓8	1488	972	691	703	831	400	
15.0	✓9	1514	518	677	683	852	402	
	✓10	1508	808	723	732	842	408	
15.4	✓11	1540	1008	817	808	838	426	
	1A	1921	903	450	—	851	408	
	1	2114	597	548	—	882	420	
	2	—	—	589	—	853	419	
	3	—	—	642	—	847	422	
	4	—	—	610	—	887	418	
	5	—	—	676	—	852	423	
	6	—	—	727	—	869	423	
	7	—	—	730	—	870	417	515
	8	—	—	793	—	858	422	

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1932phae.proj.12840

cl-Dk	Mean Diff-Dk	Rel Diff	Mag
414	34	82	—
447	126	282	—
431	196	455	—
417	221	530	—
466	238	510	—
439	257	585	—
455	301	661	—
447	299	668	—
498	389	872	—
434	337	775	784
447	386	863	846
426	372	872	853
425	360	823	818
429	362	842	832
422	393	930	off curve +
433	386	892	off curve +
431	297	690	719
450	278	618	665
434	320	737	755
415	379	912	off curve
443	42	95	—
462	128	278	—
434	170	392	—
425	220	517	—
469	252	536	—
429	253	590	—
446	304	680	—
453	313	691	—
428	371	865	—

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1932phae.proj.1284N

M.M. – RH3782 – March 8, 1932.

long	star	y	x	Δyell	Δyell	Ce	Δb	Volts
	ls	1921	896	428	—	812	411	5.22
	1	2114	588	523	—	830	419	
	2	—	—	568	—	812	428	
	3	—	—	614	—	808	423	
	4	—	—	609	—	850	419	
	5	—	—	632	—	810	429	
	6	—	—	665	—	829	429	
	7	—	—	679	—	819	424	
	8	—	—	740	—	812	424	
15.6	12	1560	819	747	750	752	423	
15.8	13	1592	434	640	629	768	431	
	14	1584	480	658	661	768	432	
	15	1587	487	708	791	757	432	
	16	1579	516	693	697	768	439	
	17	1594	633	652	658	761	427	
	18	1579	669	633	647	751	432	
	19	1582	817	690	699	752	437	
	20	1578	830	602	601	749	432	
	21	1583	918	692	699	752	432	
	22	1580	1022	601	593	758	431	
16.0	23	1611	561	699	702	761	429	
	24	1610	567	680	692	753	432	
	25	1605	760	720	712	751	428	
	26	1600	895	641	636	757	431	
	27	1616	926	685	590	756	435	
	28	1599	992	630	637	754	432	
16.2	29	1625	419	727	732	777	432	
	30	1637	546	718	718	765	432	
	31	1633	702	688	709	763	434	
	32	1634	782	661	671	752	438	

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1932phae.proj.1284N

Ce-Dk	Mean Defl-Dk	Red Defl	mag.
401	17	43	—
411	104	253	—
384	140	364	—
385	191	496	—
431	190	441	—
381	203	534	—
400	236	590	—
395	255	645	—
388	316	815	—
329	325	987	off curve
337	203	602	686
336	228	678	744
319	288	902	off curve
329	256	778	808
334	228	684	748
319	208	653	726
315	257	816	833
317	170	537	638
320	264	825	840
327	166	508	615
332	271	816	834
321	254	790	816
323	288	890	off curve
320	207	646	723
321	153	477	590
322	204	633	713
345	298	866	off curve
333	286	858	off curve
329	264	802	823
314	228	726	776

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1932phae.proj.1284M

M.M. RH 3782 – March 3, 1932.

Strip	Star	y	x	Dec	Dec	Cc	Ck	Date
	33	1628	810	718	728	772	432	
	34	1628	848	710	721	759	431	
	35	1634	950	687	690	748	424	
	36	1631	990	692	701	751	428	
	37	1621	1008	706	712	749	422	
	38	1632	1124	652	654	749	428	
	1s	1921	896	452	—	758	426	
	1	2114	588	520	—	762	422	
	2	—	—	539	—	752	422	
	3	—	—	576	—	751	424	
	4	—	—	583	—	769	422	
	5	—	—	608	—	761	424	
	6	—	—	643	—	767	427	
	7	—	—	662	—	780	428	
	8	—	—	712	—	770	430	5.20
		M.M. – RH 3782 – March 4, 1932						
	1s	1921	892	510	—	925	499	5.20
	1	2114	586	612	—	972	497	
	2	—	—	659	—	937	470	
	3	—	—	708	—	922	503	
	4	—	—	717	—	960	502	
	5	—	—	751	—	930	493	
	6	—	—	782	—	938	499	
	7	—	—	792	—	941	509	
	8	—	—	858	—	934	570	
16.4	39	1650	380	801	829	935	502	
	40	1653	441	870	883	958	527	
	41	1640	483	868	869	931	515	
	42	1649	569	712	722	928	572	
	43	1642	690	828	827	912	506	

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1932phae.proj.1284m

Cl-Dk	Mean Dyl-Dk	Rd Dyl	Mag.
340	291	857	off curve
328	285	870	off curve
324	264	817	834
323	268	830	844
327	287	876	off curve
321	225	700	758
332	26	78	—
340	98	288	—
330	137	415	—
327	152	464	—
347	161	462	—
337	184	546	—
340	216	636	—
352	234	665	—
340	272	796	—
426	11	13	—
475	115	242	—
427	149	349	—
419	205	489	—
458	215	468	—
437	258	590	—
439	283	643	—
432	283	656	—
424	348	820	—
433	313	725	767
431	349	810	832
416	353	850	off curve
416	205	495	593
406	322	794	819

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1932phae.proj.12841

mm.–RH 3782 — March 3, 1932

Strip	Star	y	x	Δeff.	Δeff.	cl.	Δ.	v-l.
	44	1657	1127	653	668	922	510	
16.6	45	1648	1170	880	865	931	508	
	46	1667	363	868	880	920	502	
	47	1660	389	783	791	931	500	
	48	1665	410	847	870	938	498	
	49	1670	486	848	857	912	496	
	50	1668	568	779	791	875	491	
	51	1663	663	792	808	863	487	
	52	1671	680	698	707	852	474	
	53	1670	752	712	723	864	476	
	54	1669	812	798	782	841	471	
	55	1671	829	747	748	853	472	
	56	1671	980	808	817	860	482	
	57	1661	1009	813	809	864	480	
	58	1666	1115	759	760	875	484	
? 16.8	59	1689	491	799	818	899	508	
	60	1679	1033	787	801	891	510	
	61	1694	1075	831	832	879	508	
	62	1686	1090	837	841	898	508	
17.0	63	1718	441	748	752	890	491	
	64	1715	568	828	843	893	500	
	65	1700	578	782	788	898	507	
	66	1706	591	801	820	898	505	
	67	1709	622	835	849	883	499	
	68	1709	690	753	769	880	492	
	69	1706	700	779	783	883	490	
	70	1711	706	776	787	859	484	
	71	1707	782	548	550	812	469	
17.2 P. L. R.	72	1722	500	830	832	876	493	5.18
	73	1718	717	792	808	898	499	

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1932phae.proj.12840

Cl-Dk	Defl-Dk	Red. Defl.	Magn.
422	150	355	500
423	364	860	869 off curve
418	372	890	off curve
431	287	666	720
440	360	818	838
416	356	855	865 off curve
384	294	765	798
376	313	835	848
378	228	602	672
388	242	625	690
370	319	863	872 off curve
381	276	744	781
378	330	868	876 off curve
384	331	863	871 off curve
386	271	702	750
391	296	758	790
381	284	745	781
371	324	873	off curve
390	331	846	858 off curve
399	259	649	708
393	336	854	865 off curve
391	278	711	760
393	305	778	806
384	343	891	892 off curve
388	269	692	743
393	291	740	778
375	298	795	820
393	80	202	404
383	338	882	888 off curve
379	301	794	820

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1932phae.proj.1284m

P. S. R. - R. H. 3782 — March 4, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volt.
17.2 (Cont.)	✓74	1728	871	787	787	872	496	5.18
	✓75	1728	907	800	803	861	501	
17.4	✓76	1743	399	737	742	881	502	
	✓77	1744	642	776	782	872	499	
	✓78	1745	1033	833	845	886	508	
	✓79	1750	954	826	834	868	502	
	✓80	1755	1140	788	794	850	489	
	✓81	1752	1198	705	711	866	498	
17.6	✓82	1765	1082	682	683	847	477	
	✓83	1769	1220	792	799	848	483	
	✓84	1769	1365	803	803	861	477	
	✓85	1779	574	782	797	865	482	
	✓86	1779	757	797	806	857	470	
	✓87	1777	821	792	803	858	473	
17.8	✓88	1783	638	813	813	848	482	
	✓89	1790	837	782	784	843	479	
	✓90	1789	890	687	689	827	473	
	✓91	1790	1036	749	758	809	464	
	✓92	1797	1140	782	790	837	475	
	✓93	1795	1159	777	779	826	473	
	15	1922	891	493	—	833	468	
	1	2114	585	582	—	863	474	
	2	—	—	621	—	828	473	
	3	—	—	653	—	823	487	
	4	—	—	676	—	848	487	
	5	—	—	684	—	834	478	
	6	—	—	703	—	835	478	
	7	—	—	718	—	833	463	
	8	—	—	786	—	852	480	5.12

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1932phae.proj.1284N

Cl - Dk	Mean Defl - Dk	Red Defl	Mag.
376	291	775	805
360	301	835	850
379	238	629	691
373	280	751	788
378	331	875	off curve
366	328	898	off curve
361	302	834	850
368	210	571	650
370	205	535	634
365	313	859	868 off curve
384	326	849	859 off curve (outside circle)
383	308	803	825
387	332	858	868 off curve
385	325	843	855 off curve
366	331	904	off curve
364	304	834	850
354	215	608	675
345	290	842	854
362	311	858	868 off curve
353	305	862	off curve
365	25	69	—
389	108	278	—
355	148	416	—
336	166	493	—
361	189	524	—
356	210	590	—
357	225	630	—
370	255	689	—
372	306	822	—

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1932phae.proj.1284M

HJP- RA 3782- March 4, 1932.

Seq	Star	Y	X	Defl	Defl	Cc	Dk	Volts
	1A	1922	911	441	—	857	423	675
	1	2116	603	568	—	872	439	
	2	—	—	588	—	866	437	
	3	—	—	613	—	863	448	
	4	—	—	680	—	893	451	
	5	—	—	676	—	893	457	
	6	—	—	722	—	893	452	
	7	—	—	720	—	862	413	
	8	—	—	791	—	860	409	
18.0	94	1804	454	778	782	863	403	
	95	1814	542	668	672	843	390	
	96	1809	597	722	737	837	401	
	97	1809	611	788	800	843	403	
18.2	98	1817	326	723	742	873	409	
	99	1830	354	650	653	880	408	
	100	1838	443	700	701	870	397	
	101	1831	707	778	775	853	409	
	102	1830	803	790	782	843	397	
	103	1831	858	690	702	809	403	
	104	1837	996	736	739	845	396	
	105	1827	1268	642	649	850	390	
	106	1830	1336	726	732	870	418	
18.4	107	1841	610	757	770	892	432	
	108	1849	901	809	817	874	433	
18.6	109	1857	510	820	832	899	448	
	110	1868	596	818	823	910	408	
	111	1870	908	708	706	893	452	
	112	1860	970	752	758	907	448	
	113	1860	982	834	840	897	460	
	114	1862	1316	857	864	909	470	

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1932phae.proj.1284N

Cl-Dk	Mean Defl. Dk	Red Defl	Mag
424	8	19	—
433	129	298	—
429	151	352	—
415	165	398	—
442	229	519	—
436	219	503	—
441	270	613	—
449	307	683	—
451	382	845	—
460	371	820	825
453	280	618	701
436	329	755	790
440	391	889	off curve
464	323	695	755
472	244	518	628
473	303	640	720
444	367	827	829
446	389	872	856 off curve
456	293	642	721
455	346	760	791
460	256	556	653
452	311	693	754
460	332	722	772
441	380	863	851
451	378	839	838
452	362	801	818
441	255	577	671
459	307	670	741
437	377	865	852
439	388	884	off curve

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1932phae.proj.12841

Zp - R Aq 3782 - March 5, 1932.

Strip	Star	Y	X	dxpf	dxpf	Cl	Dk	Volts
	115	1880	1411	872	872	918	473	
18.8	116	1887	807	820	820	967	482	
	117	1890	612	849	850	943	482?	
	118	1891	730	870	860	933	487	
	119	1893	819	866	870	939	484	
	120	1880	1309	882	877	950	502	
	121	1880	1411	878	886	942	489	
19.0	122	1901	498	770	768	963	492	
	123	1907	1059	840	836	922	483	
	124	1916	1411	723	723	949	492	
19.2	125	1914	323	836	839	970	490	
	126	1922	428	903	913	967	500	
	127	1917	622	814	799	941	492	
	128	1923	695	811	820	931	491	
	129	1917	1373	869	863	952	502	
19.4	130	1957	376	870	893	962	509	
	131	1957	432	872	882	950	480	
	132	1957	459	876	884	918	480	
	133	1960	482	792	807	967	483	
	134	1940	550	888	878	950	490	
	135	1939	740	870	868	918	498	
	136	1938	902	848	857	940	490	
	137	1940	1010	809	821	940	500	
	138	1940	1220	758	768	937	496	
	139	1939	1431	872	879	961	477	
19.6	140	1960	600	856	867	913	471	
	141	1960	639	837	847	929	471	
19.8	142	1990	287	803	807	914	443	
	143	1977	342	822	818	912	454	
	144	1980	607	804	803	881	419	

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1932phae.proj.12840

cl-Dk	Mean Deff-Dk.	Red. Deff	Mag	
445	389	875	860 ×	outside circle)
485	338	697	~~874~~ 754 ×	~~.~~
461	368	798	~~835~~ 761 ✓	~~Possible. But probable?~~
446	378	849	841 ✓	
455	384	843	839	
448	378	836	835 ✓	
453	393	866	851 ×	(outside circle) same as 115
471	277	589	680 ✓	
439	355	810	820 ✓	
457	231	505	618 ×	(outside circle)
480	346	720	770 +	
467	408	876	Off curve ×	
449	314	700	759 ✓	
440	325	738	779 ✓	
450	364	808	818 +	(outside circle)
453	375	825	828 ✓	
470	397	845	840 ✓	
430	400	931	off curve ✓	
484	317	654	730 ✓	
460	393	854	846 ✓	
420	371	883	off curve K	
450	362	805	819 ✓	
440	315	716	768 ✓	
441	267	606	694 ✓	
484	399	825	828 ×	(outside circle)
442	391	886	off curve ✓	
458	371	809	820 ✓	
471	362	767	797 ✓	
458	366	798	814 ✓	
462	385	835	836 ✓	

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1932phae.proj.1284M

AP - R.A. 3782 - March 4, 1932.

Temp	Star	y	x	Diff	Diff	Ce	Dk Volts
	145	1981	796	793	790	880	463
	146	1980	841	792	810	893	440
	147	1980	845	827	827	862	427
	148	1980	1282	808	818	857	422
20.0	149	2000	356	731	733	900	439
	150	2006	638	782	768	862	426
	151	2011	664	753	762	873	429
	152	1997	724	789	798	869	428
	153	2010	748	710	716	870	430
	154	2014	1002	800	810	870	430
	155	1999	1047	743	757	860	439
	1A	1922	911	480	—	880	448
	1	2116	603	587	—	891	449
	2	—	—	608	—	864	440
	3	—	—	633	—	861	441
	4	—	—	668	—	872	432
	5	—	—	650		851	430
	6	—	—	700	—	853	421
	7	—	—	720	—	870	430
	8	—	—	789	—	862	432

AP - R.A. 3782 - March 5, 1932.

1A	1922	851	427	—	824	404
1	2116	546	521	—	848	401
2	—	—	563	—	803	400
3	—	—	582	—	840	410
4	—	—	616	—	872	418
5	—	—	639	—	862	429
6	—	—	700	—	883	422
7	—	—	712	—	880	433
8	—	—	799	—	888	440

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nasa_text_scan_1284N

Q-Dk	mean Dyl-Dk	Pe Dyl	Mag
417	329	790	810 ✓
453	361	795	812 ✓
435	400	911	off curve ✗
435	391	900	off curve ✗
461	293	635	717 ✓
436	349	810	821 ✓
444	329	741	782 ✓
441	366	830	833 ✓
440	283	642	721 ✓
440	375	852	843 ✓
421	311	742	783
432	32	74	—
442	138	313	—
424	168	399	—
420	192	458	—
440	236	536	—
421	220	524	—
432	279	648	—
440	290	659	—
430	357	829	—
420	23	55	—
447	120	269	—
403	163	404	—
430	172	450	—
454	198	436	—
433	210	485	—
461	278	602	—
447	279	624	—
448	359	800	—

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1932phae.proj.1284N

N JP – CH 3782 – March 5, 1932.

Strip	Star	y	x	Diff.	Diff.	Cl	Int.	Notes
20.2	156	2031	379	850	842	917	440	
	157	2028	388	763	768	922	448	
	158	2028	544	804	832	900	448	
	159	2021	572	813	823	877	432	
	160	2028	888	732	732	886	452	
	161	2020	891	826	833	903	452	
	162	2022	1011	822	823	902	460	
20.4	163	2038	596	832	840	908	458	
	164	2036	791	810	800	923	461	
	165	2051	930	660	658	917	460	
	166	2051	1148	788	810	920	467	
	167	2051	1197	778	772	924	472	
	168	2052	1280	816	817	942	459	
20.6	169	2070	290	884	900	958	481	
	170	2067	292	772	816	938	461	
	171	2073	439	671	660	919	462	
	172	2078	439	817	790	937	460	
	173	2070	663	858	862	933	466	
	174	2068	777	860	837	923	468	
	175	2067	822	678	693	914	460	
	176	2071	900	740	732	926	462	
	177	2071	1017	770	773	917	469	
	178	2061	1302	787	792	923	466	
	179	2072	1321	768	708	928	474	
20.8	180	2088	603	828	830	923	470	
	181	2091	722	847	860	930	473	
	182	2078	847	800	799	922	480	
	183	2091	852	842	842	919	481	
	184	2077	1109	764	759	927	483	
21.0	185	2111	280	708	768	969	463	

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1932phae.proj.1284m

α-Dk	Decl.-Dk.	Rel. Decl.	Magn.	
477	406	851	849	✓
474	312	660	762	
452	370	817	836	x
445	386	866	854	x
431	280	650	757	✓
451	378	838	842	✓
442	362	818	836	✓
450	378	840	845	✓
442	344	778	820	x
457	199	435	604	✓
453	332	710	790	✓
452	303	670	769	✓
483	357	740	801	✓
477	401	840	845	✓
477	323	678	820	✓
467	114	244	451	✓
477	344	723	794	✓
467	394	842	845	✓
455	380	846	847	x
454	226	498	650	✓
464	274	590	720	✓
448	303	677	771	✓
457	324	678	772	x outside circle
454	234	509	660	x
453	359	794	826	✓
457	381	837	842	✓
442	320	725	797	✓
438	361	823	841	✓
444	279	629	743	✓
506	300	593	722	✓

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1932phae.proj.12840

ZC - RA 3782 - March 5, 1932

Strip	Star	Y	X	Decl	Decl	Cc	Dk	Volts
	186	2100	398	793	791	949	472	
	187	2112	473	780	787	952	473	
	188	2101	530	848	843	940	480	
	189	2110	612	846	858	930	482	
	190	2102	999	772	771	932	476	
21.2	191	2130	230	803	811	970	483	
	192	2127	311	889	899	967	487	
	193	2120	329	860	867	959	481	
	194	2119	342	859	872	963	480	
	195	2130	420	862	860	940	486	
	196	2128	778	858	858	923	472	
	197	2131	1044	814	817	937	472	
	198	2124	1322	828	832	947	479	
21.4	199	2138	568	753	763	963	483	
	200	2142	1143	868	880	930	470	
	201	2150	1339	797	803	961	480	
21.6	202	2170	243	767	767	973	481	
	203	2170	200	880	884	960	479	
	204	2169	553	858	857	967	480	
	205	2160	868	767	757	930	480	
	206	2170	926	710	730	923	478	
	207	2161	946	632	637	918	478	
	208	2171	958	800	803	912	472	
	209	2161	1048	770	776	911	472	
	210	2161	1148	828	840	923	467	
	1	1922	851	803	—	903	472	
	1	2116	576	588	—	918	472	
	2	—	—	608	—	927	463	
	3	—	—	610	—	892	465	
	4	—	—	670	—	923	469	

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1932phae.proj.12940

Cl – Dk	mean Dep't – Dk	Rec. Dep't.	Mag.	
477	320	674	771	
479	311	653	760	
460	366	794	825	
448	370	827	840	
456	296	650	755	
487	324	666	765	
480	407	850	848	
478	383	800	828	
483	386	798	828	
454	375	826	840	
451	386	857	851	
465	344	743	804	
468	351	750	806	(outside circle)
480	275	573	710	
460	404	829	840	
481	320	665	765	(outside circle)
492	286	582	714	
481	403	839	843	
487	378	777	820	
450	282	625	743	
445	242	544	690	
440	156	353	542	
440	330	750	806	
439	301	695	781	
456	367	807	831	
431	31	72	—	
446	116	261	—	
464	145	313	—	
427	145	340	—	
434	201 ?	461	—	

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1932phae.proj.1284M

HDPRH 3782, Mar 5, 1932

Strip	Star	y	x	Defl	Defl	Cl	Dk	Volt
	5	—	—	674	—	910	470	
	6	—	—	720	—	917	460	
	7	—	—	782	—	912	464	
	8	—	—	840	—	899	463	
		M M. – RH 3782 – March 7, 1932						
	1s	1922	898	472		971	448	5.22
	1	2116	591	620	—	978	459	
	2	—	—	669	—	969	461	
	3	—	—	719	—	970	468	
	4	—	—	752	—	1009	482	
	5	—	—	789	—	980	478	
	6	—	—	820	—	992	478	
	7	—	—	836	—	988	472	
	8	—	—	900	—	972	477	
21.8	211	2195	341	960	970	1039	487	
	212	2188	443	854	853	1029	498	
	213	2188	593	962	967	1029	499	
	214	2184	1011	929	930	1012	506	
	215	2195	1240	933	942	1008	499	
22.0	216	2210	440	883	891	1039	502	
	217	2215	448	909	912	1022	498	
	218	2198	572	915	920	1022	509	
	219	2199	576	922	918	1028	509	
	220	2200	582	946	932	1023	512	
	221	2203	730	916	931	1022	512	
	222	2209	812	913	929	1010	512	
	223	2206	829	599	611	1017	517	
	224	2206	891	930	940	1018	521	
	225	2204	1271	958	961	1042	543	
	226	2212	1305	977	991	1055	538	

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1932phae.proj.1284N

Cl.-Dk.	Mean Defl.-Dk.	Red. Defl.	Magn.	Remarks
440	204	463	—	
457	260	570	—	
458	268	584	—	
436	377	863	—	
523	24	46	—	
519	161	310	—	
508	208	408	—	
502	251	499	—	
527	270	513	—	
502	311	620	—	
514	342	664	—	
516	364	704	—	
495	423	852	—	
552	478	868	851	
531	356	669	711	
530	457	861	850	
506	424	840	835	
504	439	871	off curve	
537	385	718	647	
524	412	785	793	
513	409	796	801	
519	411	789	798	
511	427	834	831	
510	412	805	809	
498	409	820	821	
500	88	176	357	
497	414	835	830	
499	417	835	830	
517	446	864	852	(outside circle)

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1932phae.proj.1284N

R.S.R. – R.H. 3782 – March 7, 1932

Strip	Star	y	x	Dyf.	Dyf.	Cl.	Dk	Volt.
22.2	227	2231	657	891	900	1058	536	
	228	2225	987	893	907	1048	517	5.20
	229	2238	425	993	1006	1084	524	
	230	2239	608	978	992	1059	504	#8 = 9.40 − Cl/10.10
	231	2235	1284	896	903	1058	504	
22.4	232	2240	1064	987	977	1033	514	
	233	2247	1307	871	888	1048	521	
	234	2251	360	867	888	1052	510	
	235	2256	732	952	961	1023	508	
	236	2251	1199	900	898	1030	503	
22.6	237	2267	390	978	972	1036	499	
	238	2260	436	943	967	1052	495	
	239	2264	502	717	735	1026	497	
	240	2268	534	951	949	1004	493	
	241a	2270	556	918	937	1027	496	
	241b	2268	870	909	928	1014	503	
	242	2279	538	967	988	1058	495	
	243	2273	710	960	965	1017	490	
	244	2272	996	946	956	1020	492	
22.8	245	2285	890	945	968	1016	498	
	246	2288	1011	940	957	1007	502	
	247	2289	1036	938	944	1003	498	
	248	2297	896	738	743	998	503	
	249	2295	917	898	908	1005	494	
	250	2298	1094	807	810	990	483	
23.0	251	2300	875	965	967	1030	499	
	252	2311	875	923	922	1008	493	
	253	2302	1048	881	898	992	492	
	254	2306	1135	944	957	1013	491	
	255	2312	503	938	952	1023	497	5.18

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1932phae.proj.1284W

α.-Dk.	Mean Defl.-Dk.	Red. Defl.	Magn.	Remarks
522	360	690	729 ✓	
531	383	721	750 ✓	
560	476	850	840 ✓	
555	481	866	853 ✓	
554	396	713	745+	outside circle
529	468	888	868 +	
527	359	681	722+	outside circle
542	368	678	720 ✓	
515	452	876	off curve + ✓	
527	396	753	771 ✓	
537	476	887	off curve + ✓	
557	460	826	827 ✓	
529	229	432	532 ✓	
511	457	892	873 ✓	
531	432	810	811 ✓	
511	415	811	812 ✓	
563	483	853	843 ✓	
527	472	894	874 +	
528	459	869	851 + ✓	
518	458	863	off curve	
505	446	882	off curve ✓	
505	443	874	off curve ✓	
495	237	479	565 ✓	
511	409	800	802 ✓	
507	325	640	690 ✓	
531	467	878	off curve +	
515	429	832	830 ✓	
500	398	796	802 ✓	
522	459	881	off curve ✓	
526	448	855	846 ✓	

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1932phae.proj.12841

P. R. – R. A. 3782 – March 7, 1932

Stop	Star	y	x	Left	Left	Cl	Clk	Volts
23.0	256	2316	563	964	978	1032	503	5.18
(Cont.)	257	2318	647	948	956	1017	501	
	258	2314	1144	882	887	1034	506	
	259	2318	1266	835	839	1018	500	
23.2	260	2322	523	907	921	1023	485	
	261	2338	416	791	803	1022	493	
23.4	262	2341	789	957	959	1031	493	
	263	2357	598	918	917	1018	483	
	264	2359	838	883	881	1030	494	
	15	1922	898	527	—	983	488	
	1	2115	590	637	—	1003	496	
	2	—	—	700	—	986	492	
	3	—	—	727	—	976	488	
	4	—	—	760	—	1010	487	
	5	—	—	766	—	966	482	
	6	—	—	796	—	969	488	
	7	—	—	802	—	969	501	
	8	—	—	891	—	970	495	5.16

P. R. – R. A. 3782 – March 8, 1932

	15	1923	889	515	—	975	478	5.17
	1	2115		667	—	1009	470	
	2	—	—	693	—	969	480	Galvanometer
	3	—	—	716	—	979	488	jumpy – very
	4	—	—	769	—	997	477	windy day.
	5	—	—	754	—	984	476	
	6	—	—	830	—	979	473	
	7	—	—	833	—	983	477	
	8	—	—	910	—	983	481	
23.6	265	2360	439	950	962	1053	490	
	266	2367	1063	952	947	1029	484	5.15

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1932phae.proj.12841

Q-Db.	Mean Dep.-Db	Red. Defl.	Mag.	Remarks
529	468	884	868+	
516	451	874	859 ✓	
528	378	717	746 ✓	
518	337	652	702+ ✓	outside circle
538	429	799	801 ✓	
529	304	575	638 ✓	
598	465	863	852 ✓	
535	435	812	817 ✓	
536	388	723	752	
495	39	79	—	
507	141	278	—	
494	208	421	—	
488	239	489	—	
523	273	521	—	
484	284	586	—	
481	308	639	—	
468	301	641	—	
476	396	833	—	
497	37	75	—	
539	197	367	—	
489	213	435	—	
491	228	464	—	
520	292	562	—	
508	278	547	—	
506	357	705	—	
505	356	705	—	
502	429	857	—	
563	466	826	828 ✓	
545	466	855	850 ✓	

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1932phae.proj.12841

P. S. R. – R. A. 3.782 – March 8, 1932

Strip	Star	y	x	Refl.	Refl.	Ol.	Zb.	Volts
23.6	267	2378	721	921	923	1009	473	5.1.5
(Cont.)	268	2379	743	857	870	1008	481	
	269	2378	1000	860	860	992	460	
23.8	270	2389	960	888	898	979	462	
	271	2389	1120	932	932	992	467	
	272	2392	694	913	901	1003	443	
	273	2390	700	903	917	997	457	
	274	2398	774	863	883	990	467	
	275	2395	982	858	872	989	476	
	276	2399	1059	892	903	1029	489	
	277	2396	1066	919	923	1022	491	
	278	2396	1130	852	868	983	474	
24.0		& J.P. –						
	279	2407	549	854	869	988	473	
	280	2400	607	872	882	1002	478	
	281	2402	658	708	700	1003	483	
	282	2400	775	879	883	983	489	
	283	2402	792	887	893	1000	493	
	284	2400	1059	867	872	983	483	
24.2	285	2428	1129	923	947	997	491	
24.4	286	2451	672	927	920	980	493	
	287	2457	699	762	764	1006	490	
	288	2440	748	767	793	987	483	
	289	2440	768	907	913	983	479	
24.6	290	2471	704	773	812	971	482	
	291	2458	995	863	839	983	489	
24.8	292	2490	888	682	718	952	490	
	10	1923	889	532	—	926	503	
	1	2115	682	651	—	937	483	
	2	—	—	661	—	927	491	

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1932phae.proj.12941

A.-Dk.	Mean Dyf-Dk	Red Dyf	Mag.	Remarks
536	449	839	835 ✓	
527	383	727	767 ✓	
532	400	753	781 ✓	
517	431	834	832 ✓	
526	465	887	off curve ×	
560	464	829	829 ✓	
540	473	839	836 ✓	
523	406	775	794 ✓	
513	389	756	782 ✓	
540	409	756	782 ✓	
531	420	791	803 ✓	
509	386	756	781 ×	outside circle
515	389	755	782 ✓	
524	399	762	789 ✓	
520	221	424	551 ✓	
494	392	792	804 ✓	
507	397	782	800 ✓	
500	387	773	792 ✓	
506	444	877	off curve ×	
487	431	884	off curve ×	
516	273	530	632 ✓	
504	293	582	670 ✓	
504	431	854	850 ✓	
489	310	633	709 ✓	
494	362	782	798 ✓	
462	205	443	563 ✓	
423	29	69	—	
444	158	359	—	
430	164	383	—	

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1932phae.proj.12841

RH 3782

Strip	Star	y	x	dyff	dxff	cc	dk	Volts
Plate finished	3	—	—	662	—	927	472	
	4	—	—	738	—	942	511	
	5	—	—	716	—	937	498	
	6	—	—	797	—	928	481	
	7	—	—	770	—	920	488	
	8	—	—	850	—	932	500	505
		Zgc-	RH 3826-		March 8, 1932			
	11	1920	899	703	—	1489	509	505
	1	2135	607	856	—	1536	500	
	2	—	—	970	—	1527	500	
	3	—	—	980	—	1537	499	
	4	—	—	1113	—	1540	510	
	5	—	—	1091	—	1550	498	
	6	—	—	1236	—	1543	501	
	7	—	—	1196	—	1537	493	
	8	—	—	1322	—	1534	510	
13.8	↓1	1388	863	1273	1329	1498	511	
	↓2	1397	871	1277	1293	1514	507	
	×3	1390	967	1279	1289	1502	500	
14.0	×4	1391	613	1350	1353	1482	507	
14.2	↓5	1417	549	1263	1300	1503	518	
14.4	×6	1437	513	1387	1397	1498	524	
	×7	1451	641	1410	1416	1493	520	
	↓8	1450	692	1295	1290	1480	512	
	×9	1440	1036	1403	1419	1502	520	
14.6	×10	1472	484	1372	1378	1468	519	
	×11	1470	529	1390	1387	1479	510	
	×12	1470	767	1338	1360	1470	483	
	×13	1471	728	1354	1370	1479	500	
	↓14	1460	778	1293	1297	1473	495	

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1932phae.proj.12840

Q.-Dk.	Mean Dyl-Dk	Red Dyl	Mag	Remarks
455	190	417	—	
431	227	526	—	
439	218	496	—	
447	316	708	—	
432	282	654	—	
432	350	813	—	
980	194	198	—	
1036	356	344	—	
1027	470	458	—	
1038	481	464	—	
1030	603	585	—	
1052	593	563	—	
1042	732	702	—	
1064	700	657	—	
1024	812	792	—	
982	790	806	827 ✓	
1007	778	773	805 ✓	
1002	884	882	off curve	
975	845	867	off curve ✓	
985	764	776	807 ✓	
969	868	890	off curve ✓	
973	893	917	off curve ✓	
968	780	806	827 ✓	
982	891	908	off curve ✓	
949	856	903	off curve ✓	
969	878	905	off curve ✓	
987	861	870	off curve ✓	
979	862	880	off curve ✓	
978	800	818	837 —	

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1932phae.proj.1284N

Dp-eH 3826 - March 8, 1932

Strip	Star	y	x	dyf1	dyf1	cc	dk	Volts
	×15	1467	915	1325	1347	(500	1472)	
	✓16	1465	1072	1243	1242	1471	498	
	✓17	1461	1076	1281	1323	1471	509	
14.8	×18	1481	972	1383	1377	1469	518	
	✓19	1483	975	1162	1166	1472	498	
15.0	✓20	1504	467	1173	1181	1454	500	
	✓21	1516	519	1130	1122	1463	498	
	✓22	1507	811	1219	1217	1452	493	
	23	1510	1045	1140	1130	1484	500	
15.4	×24	1547	662	1382	1391	1458	498	
	✓25	1552	978	1283	1297	1470	498	
	✓26	1550	1158	1300	1322	1487	490	
15.6	×27	1560	831	1392	1380	1468	493	
15.8	✓28	1591	406	1260	1263	1477	483	
	✓29	1588	493	1162	1188	1483	477	
	✓30	1581	528	1232	1233	1459	480	
	✓31	1597	647	1210	1201	1468	479	
	✓32	1589	681	1168	1180	1467	471	
	×33	1581	828	1299	1300	1453	483	
	✓34	1579	842	1060	1050	1470	463	
	×35	1581	928	1312	1320	1464	479	
	✓36	1579	1034	1036	1023	1468	459	
16.0	✓37	1617	403	1066	1054	1469	468	
	✓38	1597	449	1092	1067	1458	479	
	✓39	1613	574	1273	1267	1422	470	
	×40	1611	579	1241	1252	1443	473	
	×41	1602	599	1298	1308	1458	463	
	✓42	1600	907	1282	1190	1447	463	
	✓43	1613	939	1010	1012	1462	478	
	✓44	1599	1003	1184	1158	1480	479	

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1932phae.proj.1284N

α.-Dk.	Defl.-Dk.	Rd. Defl.	Mag.	Remarks
967	831	860	offcurve +	
972	744	765	800 ✓	
962	818	849	offcurve ✓	
951	862	905	offcurve +	
974	666	683	743 ✓	
954	677	705	760 ✓	
965	628	650	718 ✓	
959	725	757	793 ✓	
984	635	644	718 ✓	double
960	890	928	offcurve +	
972	797	819	840 ✓	
997	821	824	842 ✓	
975	896	920	offcurve +	
984	779	791	819 ✓	
1006	698	695	752 ✓	
979	752	768	800 ✓	
989	727	735	780 ✓	
996	703	706	759 ✓	
970	817	841	offcurve +	
1007	592	588	670 ✓	
985	837	850	offcurve +	
1009	571	566	653 ✓	
1001	592	592	673 ✓	
979	601	615	692 ✓	
962	800	833	850 ✓	
970	773	797	820 ✓	
1005	850	846	offcurve +	
984	829	835	851 ✓	
984	533	542	633 ✓	
1101	692	629	702 ✓	

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1932phae.proj.12841

α Gp - R.A. 3826 - March 8, 1932

Step	Star	y	x	dlyll	dlyll	cl	dk. Volt
16.2	45	1619	383	1310	1322	1500	499
	46	1625	714	1270	1268	1491	480
	47	1632	796	1211	1209	1482	488
	48	1628	825	1343	1343	1490	482
	49	1628	859	1342	1353	1462	478
	50	1631	963	1280	1267	1457	469
	51	1630	1006	1227	1247	1467	479
	52	1630	1137	1188	1198	1491	480
16.4	53	1652	394	1191	1197	1483	483
	54	1640	500	1334	1323	1478	476
	55	1638	583	1101	1100	1472	477
	56	1642	704	1251	1263	1469	462
	57	1649	1140	890	862	1482	462
	58	164	1183	1372	1389	1492	473
16.6	59	1670	579	1330	1347	1473	472
	60	1667	704	1150	1120	1463	466
	61	1669	427	1298	1310	1459	482
	62	1670	583	1188	1220	1457	478
	63	1663	679	1303	1300	1460	480
	64	1670	693	1030	1042	1467	473
	65	1670	769	1108	1100	1470	461
	66	1668	828	1323	1330	1459	476
	67	1670	844	1201	1210	1471	463
	68	1668	868	1190	1190	1490	463
	69	1670	996	1356	1379	1472	471
	70	1660	1024	1352	1363	1477	459
	71	1660	1129	1200	1212	1497	474
	10	1920	899	556	—	1427	450
	1	2135	607	802	—	1479	461
	2	—	—	873	—	1480	463

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1932phae.proj.12841

Co. Dk.	Mean Dyl - Dk.	Red Dyl	Mag.	Remark
1001	812	810	831	
1011	789	780	810	
994	722	727	773	
1008	861	855	off curve	
984	870	885	off curve	
988	803	811	832	
988	868	878	off curve	
1010	710	703	758	
1000	711	711	763	
1002	858	856	off curve	
995	523	525	617	
1007	790	783	812	
1020	414	406	512	
1019	907	890	off curve	
1001	866	865	off curve	
997	669	670	734	
977	822	840	854	
999	736	737	780	
980	822	838	852	
994	566	570	656	
1009	643	638	709	
974	850	873	off curve	
1008	743	737	780	
1027	627	610	689	
1001	897	896	off curve	
1018	899	881	off curve	
1023	732	715	767	
977	106	157	—	
1018	341	334	—	
1017	410	403	—	

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1932phae.proj.12841

trip	star	Y	X	Defl	Defl	Cc	Ck	Volts
	3	—	—	914	—	1493	467	
	4	—	—	1030	—	1468	450	
	5	—	—	995	—	1487	467	
	6	—	—	1144	—	1381	408	000
	7	—	—	1120	—	1482	473	
	8	—	—	1283	—	1482	440	
		m.m – RH 3826 – March 9, 1932						502
	ls	1920	900	516	—	1082	433	
	1	2135	610	138	—	1060	436	rejected,
	2	—	—	690	—	1052	439	voltage reading
	3	—	—	730	—	1078	440	dropped suddenly
	4	—	—	782	—	1070	442	too low to
	5	—	—	782	—	1069	447	continue.
	6	—	—	865	—	1082	449	
	7	—	—	871	—	1078	452	
	8	—	—	969	—	1082	450	
		m.m. – RH 3826 – March 9, 1932						
	ls	1920	900	502	—	1174	436	5.30
	1	2135	610	662	—	1162	456	
	2	—	—	729	—	1149	462	
	3	—	—	757	—	1131	466	
	4	—	—	831	—	1128	471	
	5	—	—	830	—	1127	466	
	6	—	—	900	—	1131	468	
	7	—	—	912	—	1126	469	
	8	—	—	992	—	1124	463	
16.8	x 72	1692	520	996	1000	1083	452	
17.0	✓ 73	1700	595	932	927	1108	458	
	✓ 74	1706	610	972	957	1103	452	
	✓ 75	1710	708	890	910	1092	458	

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1932phae.proj.12841

Q.-Dk.	mean Defl.-Dk.	Red Defl	mag	Remarks
1026	447	436	—	
1018	580	570	—	
1020	528	517	—	
923	686	742	—	
1009	647	640	—	
1042	843	~~80~~ 809	—	
738	66	89	—	
706	206	292	—	
687	267	386	—	
665	285	429	—	
657	360	547	—	
661	364	549	—	
663	432	650	—	
657	443	672	—	
658	529	~~800~~	—	
631	546	864	off curve +	
650	472	725	771 ✓	
651	512	785	821 ✓	
634	442	696	741 ✓	

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1932phae.proj.1284m

m.m. — RH 3826 — March 9, 1932.

Strip	Star	y	x	Deff.	Deff	Cl.	Dk.	Volt.
	76	1705	718	938	928	1093	462	
	77	1711	721	960	965	1093	459	
	78	1717	733	959	959	1101	458	
	79	1704	800	549	559	1092	456	
17.2	80	1720	458	857	872	1080	452	
	81	1736	890	937	929	1098	455	
	82	1721	923	979	972	1078	461	
17.4	83	1746	418	826	822	1101	462	
	84	1744	661	909	912	1100	456	
	85	1750	1159	982	980	1098	456	
	86	1747	1217	783	780	1101	462	
17.6	87	1761	1100	780	776	1095	466	
	88	1763	1239	1000	1003	1100	458	
17.8	89	1781	592	950	948	1105	458	
	90	1789	853	952	972	1100	462	
	Pid. R.							
	91	1787	909	893	897	1119	470	5.27
	92	1787	1054	1047	1046	1153	483	
	93	1790	1178	1058	1067	1156	492	
	94	1799	388	1025	1031	1113	500	
	95	1792	1157	1100	1096	1177	508	
18.0	96	1807	453	1093	1131	1216	501	Read in reverse order
	97	1808	595	1023	1017	1183	510	
	98	1809	610	1133	1130	1207	497	
	99	1819	456	980	993	1204	487	
	100	1817	541	933	946	1221	498	
18.2	101	1820	311	1023	1028	1237	483	
	102	1828	852	1120	1130	1268	483	
	103	1829	856	1013	1011	1243	492	
	104	1820	1267	976	976	1318	511	
	105	1824	1334	1127	1133	1331	513	5.23

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1932phae.proj.12841

Cl–Dk.	Mean Defl.–Dk.	Red. Defl.	magn.	Remarks
631	471	745	788	
634	503	794	830	
643	501	779	815	
636	98	154	313	
628	412	655	708	
643	478	745	786	
617	515	827	off curve	
639	362	567	639	
644	454	706	752	
642	~~425~~ 531	~~682~~ 831	~~off curve~~ 713	
639	320	502	593	
629	312	497	588	
642	544	847	off curve	
647	491	759	799	
638	500	783	820	
649	425	656	706	
670	563	840	off curve	
664	570	857	off curve	
613	528	863	off curve	
669	590	881	off curve	
706	602	852	off curve	
682	519	762	802	
710	635	~~693~~ 894	~~747~~ off curve	
717	499	697	743	
728	442	610	671	
754	546	724	769	
785	642	817	850	
751	520	693	741	
807	465	578	648	
818	617	754	795	

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1932phae.proj.1284m

P.S.R. - R.H. 3826 - March 9, 1932

Strip	Star	y	x	Diff.	Diff.	Cl.	Sh.	Volts
18.2 (Cont.	v 106	1835	353	995	993	1361	520	5.23
	v 107	1839	443	1103	1107	1387	526	
	x 108	1832	705	1277	1288	1414	531	
	x 109	1834	885	1329	1342	1436	523	
	v 110	1832	993	1210	1212	1413	522	
	15	1920	900	605	—	1418	517	
	1	2135	608	820	—	1422	529	
	2	—	—	900	—	1420	509	
	3	—	—	922	—	1412	502	
	4	—	—	1026	—	1423	502	
	5	—	—	1006	—	1433	518	
	6	—	—	1146	—	1438	518	
	7	—	—	1162	—	1456	518	
	8	—	—	1279	—	1482	522	5.21
	P.S.R.	R.H. 3826.		March 9, 1932				
	10	1920	858	530	—	1324	463	5.20
	1	2135	567	728	—	1392	450	
	2	—	—	832	—	1427	450	
	3	—	—	848	—	1413	463	
	4	—	—	950	—	1440	470	
	5	—	—	979	—	1423	471	
	6	—	—	1087	—	1427	451	
	7	—	—	1089	—	1442	478	
	8	—	—	1236	—	1442	479	
18.4	v 111	1840	401	1130	1121	1467	478	
	v 112	1840	568	1211	1201	1467	479	
	x 113	1845	858	1273	1316	1459	481	
	x 114	1860	906	1297	1350	1488	491	
	v 115	1856	928	1189	1107	1487	498	
18.6	v 116	1858	468	1248	1280	1457	472	

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1932phae.proj.12849

Cl.-Dk.	mean Deff.-M.	Red. Diff.	Mag
841	474	564	638 —
861	578	673	722 —
883	751	852	offcurve +
913	813	891	offcurve +
891	689	773	811 —
901	88	98	—
893	291	335	—
911	391	428	—
910	420	462	—
921	524	569	—
915	488	535	—
920	628	682	—
938	644	685	—
960	757	790	—
861	67	78	—
942	278	295	—
977	382	391	—
950	385	406	—
940	480	511	—
952	508	535	—
976	636	652	—
964	611	635	—
963	757	785	—
989	648	655	722 —
988	727	736	783 —
978	813	832	offcurve +
997	832	835	offcurve +
989	650	657	723 —
985	792	804	845 —

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1932phae.proj.12840

H.J. - R.H. 3826 - March 9, 1932.

Strip	Star	y	x	Dyll	Dyll	Cc	Dk Volts
	✓117	1869	652	1257	1286	1478	600
	✓118	1867	867	1060	1072	1513	513
	✓119	1859	939	1307	1308	1503	526
	✓120	1864	1156	1210	1182	1519	531
	✗121	1871	1151	1347	1340	1506	513
	✗122	1875	1268	1344	1360	1529	578
18.8	✓123	1890	273	1177	1183	1493	528
	✓124	1890	570	1247	1287	1500	530
	✗125	1890	688	1352	1354	1507	532
	✗126	1891	778	1322	1329	1499	572
	✓127	1890	939	1092	1100	1500	513
	✓128	1890	941	1090	1100	1492	582
	✓129	1880	1070	1259	1271	1528	633
19.0	✓130	1903	454	1156	1127	1522	527
	✓131	1913	698	1292	1258	1522	547
	✗132	1910	1332	1300	1322	1538	539
19.2	✓133	1919	281	1191	1211	1502	541
	✓134	1918	580	1187	1163	1523	558
	✓135	1922	663	1242	1198	1527	561
	✓136	1932	1178	1078	1100	1543	550
19.4	✗137	1953	391	1351	1400	1519	552
	✓138	1953	442	1160	1150	1509	663
	✓139	1941	509	1338	1327	1527	554
	✗140	1951	527	1397	1381	1517	545
	✗141	1960	958	1341	1360	1507	539
	✓142	1940	969	1212	1241	1523	558
19.6	✗143	1961	559	1300	1377	1503	531
	✓144	1960	598	1239	1260	1472	504
19.8	✓145	1991	244	1172	1160	1464	511
	✓146	1980	301	1242	1242	1470	500

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19322phae.proj.12811

R.-Dk.	Mean Def-Dk	Red Dup	Mag.	
978	762	778	820	⌐
1000	553	553	641	⌐
980	785	802	843	⌐
988	665	673	737	⌐
990	831	840	off curve	+
1011	834	825	off curve	+
965	652	675	737	⌐
970	737	760	805	⌐
975	821	842	off curve	+
987	814	825	off curve	+
987	583	591	671	⌐
960	588	613	690	⌐
995	732	735	783	⌐
995	615	618	690	⌐
975	728	746	791	⌐
999	772	773	817	+ ⌐ outside circle
961	660	687	748	
965	617	640	710	⌐
966	659	682	743	⌐
993	539	543	634	✓
967	824	853	off curve	+
946	692	625	698	⌐
973	778	799	839	⌐
972	844	867	off curve	+
978	811	830	off curve	+
970	673	694	753	⌐
972	833	859	off curve	+
968	746	770	814	⌐
953	655	687	747	✓
976	742	765	809	✓

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1932phae.proj.1284m

ZJP - RA 3826 - March 9, 1932.

Strip	Star	y	x	Defl	Defl	Cl	Dk	Volts
	147	1981	565	1298	1278	1470	000	
	148	1996	683	1268	1274	1464	001	
	149	1980	753	1277	1278	1484	006	
	150	1991	1005	1200	1209	1487	003	
	151	1995	1167	1378	1392	1489	013	
	152	1973	1240	1356	1369	1490	498	
20.0	153	2002	314	1081	1097	1480	491	
	154	2009	481	1269	1196	1460	490	
	155	2006	597	1173	1183	1434	008	
	156	2011	626	1177	1180	1443	474	
	157	2010	708	1080	1080	1454	483	
	158	2010	1023	1138	1103	1472	483	
20.2	159	2030	408	1122	1133	1468	488	
	160	2029	562	1260	1270	1450	002	
	161	2021	590	1279	1275	1449	000	
	162	2032	810	1203	1174	1472	011	
	163	2024	903	1147	1137	1490	004	
	164	2019	909	1357	1362	1506	542	
	165	2020	1029	1346	1332	1502	540	
	1S	1920	858	613	—	1432	020	
	1	2135	567	806	—	1473	008	
	2	—	—	882	—	1480	002	005
	3	—	—	916	—	1470	493	
	4	—	—	1009	—	1449	007	
	5	—	—	1040	—	1490	014	
	6	—	—	1164	—	1421	011	
	7	—	—	1137	—	1478	003	
	8	—	—	1276	—	1469	000	

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1932phae.proj.12841

Q. Dk.	Mean Diff. Dk	Red Dye	Mag.
970	788	813	852
963	770	798	838
978	772	790	832
984	701	713	768
976	872	895	off curve
992	864	872	off curve
989	598	605	682
970	797	824	off curve
926	670	723	775
969	704	726	776
971	597	615	690
989	637	645	712
980	640	653	721
948	763	804	846
949	777	819	off curve
961	677	705	762
956	608	636	707
964	817	847	off curve
962	799	830	off curve
912	93	102	—
965	298	311	—
978	380	389	—
977	423	432	—
972	502	532	—
976	526	539	—
910	653	717	—
975	634	650	—
969	776	801	—

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1932phae.proj.12840

P.-S.-R. - R.A. 3826 - March 11, 1932

Strip	Star	y	x	Diff	Diff	α	Dk	Notes
	15	1920	846	611	—	1484	428	5.24
	1	2134	553	939	—	1498	444	
	2	—	—	1076	—	1523	457	} measured in reverse order
	3	—	—	1100	—	1526	452	
	4	—	—	1232	—	1553	481	
	5	—	—	1219	—	1557	487	
	6	—	—	1338	—	1569	491	
	7	—	—	1345	—	1580	493	
	8	—	—	1420	—	1572	483	
20.4	166	2046	600	1427	1444	1553	483	
	167	2048	935	1180	1192	1578	475	
	168	2045	1154	1387	1400	1588	488	
	169	2047	1201	1353	1368	1586	471	
	170	2045	1284	1431	1443	1592	478	
20.6	171	2065	201 ?	1432	1457	1566	480	
Are 172 and 174 the same star?	172	2070	~~708~~ ?	1282	1275	1588	486	
	173	2063	828	1226	1223	1594	487	
	174	2069	906	1274	1287	1561	486	
	175	2063	945	1451	1459	1577	482	
	176	2067	1023	1362	1370	1599	497	
	177	2078	445	921	909	1597	498	Near fainter star too close to this to measure
	178	2075	851	1380	1372	1580	499	
	179	2072	1014	1324	1319	1595	497	
20.8	180	2088	609	1410	1423	1578	502	
	181	2089	858	1464	1471	1595	492	
	182	2091	729	1460	1458	1588	495	
	183	2098	1005	1333	1340	1592	497	
21.0	184	2106	162	1406	1418	1572	492	
	185	2100	404	1297	1297	1603	498	
	186	2102	536	1419	1407	1569	483	5.20

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1932phae.proj.12840

Q.–Dk.	Incorr. Defl.–Dk.	Red Defl	Mag
1056	183	173	—
1054	495	469	—
1071	619	577	—
1069	648	606	—
1072	751	701	—
1070	732	684	—
1078	847	786	—
1087	852	784	—
1089	937	860	—
1070	952	890	off curve
1103	711	645	611
1100	906	825	792
1115	889	797	757
1114	959	857	829
1086	964	886	off curve
1102	792	717	678
1107	737	667	631
1075	794	736	695
1095	973	887	off curve
1102	869	786	748
1099	417	380	406
1081	877	811	778
1101	825	748	709
1076	914	850	822
1103	976	886	off curve
1093	964	882	off curve
1095	839	766	781
1080	920	852	822 × (outside circle)
1105	799	723	685 (
1086	930	858	830 ×

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1932phae.proj.1284M

P.J.R.-R.H. 3826 - March 9, 1932

Strip	Star	y	x	Ref.	Ref.	Cl.	Mk.	Volts
21.0 (Cont.)	187	2111	629	1477	1479	1615	499	5.20
	188	2112	982	1503	1512	1651	494	
	189	2117	288	1277	1260	1623	494	
	190	2115	479	1377	1360	1647	498	
21.2	191	2118	270	1265	1276	1617	517	5.10
	192	2130	618	1488	1498	1648	518	
	193	2127	827	1452	1460	1631	513	
	194	2121	349	1457	1477	1638	513	
	195	2129	361	1513	1528	1627	521	
	196	2132	428	1470	1492	1628	513	
	197	2128	784	1473	1493	1618	520	
	198	2130	1051	1457	1463	1667	513	
	199	2124	1263	1570	1568	1657	522	
21.4	200	2138	237	1327	1330	1640	523	
	201	2140	577	1310	1326	1633	526	
	202	2148	632	1443	1467	1648	528	
	203	2100	1107	1551	1544	1667	531	
	204	2139	1150	1529	1549	1662	527	
21.6	205	2172	251	1194	1192	1658	517	
	206	2178	258	1462	1454	1654	523	
	207	2159	437	1477	1478	1638	514	
	208	2170	561	1462	1471	1617	511	
	209	2159	876	1323	1332	1622	518	
	210	2167	923	1286	1304	1619	509	
	211	2159	952	1109	1118	1618	511	
	212	2169	967	1397	1428	1632	517	
	213	2159	1054	1344	1388	1646	523	
	214	2169	1153	1510	1504	1648	518	
	215	2169	1240	1567	1558	1652	517	
21.8	216	2196	179	991	1002	1613	510	

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1932phae.proj.1284W

Cl.-Dk.	Mean Defl.-Dk.	Rel. Defl.	Magn.	Remarks
1116	979	964	offcurve	
1157	1014	878	offcurve	
1129	774	685	650	
1149	870	758	718	
1100	743	675	640	
1130	975	862	839	
1118	943	843	813	
1125	954	848	819	
1106	999	904	offcurve	
1115	978	875	8.53	
1098	963	877	8.54	
1154	957	830	800	
1135	1047	920	offcurve	
1117	805	721	682	
1107	792	716	675	
1120	927	828	798	
1136	1017	894	offcurve	
1135	1012	892	offcurve	
1136	676	595	570	
1131	935	826	792	
1124	964	857	829	
1106	956	865	841	
1104	810	734	697	
1110	786	708	668	
1107	603	545	534	
1115	805	722	683	
1123	843	751	712	
1130	989	875	853	
1135	1045	921	offcurve	
1103	486	440	450	(outside circle)

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1932phae.proj.12840

DP-CH 3826 - March 11, 1932

Strip	Star	Y	X	Diff	Diff	Cc	Dk	Volts
	217	2190	407	1341	1337	1641	509	
	218	2181	608	1510	1509	1627	510	
	219	2183	722	1517	1531	1619	512	
	220	2180	973	1506	1511	1640	518	
	221	2192	977	1516	1528	1639	510	
	222	2190	1201	1538	1532	1647	518	
22.0	223	2200	302	1488	1488	1637	510	
	224	2212	403	1349	1349	1649	513	
	225	2200	636	1426	1429	1617	513	
	226	2200	638	1428	1469	1622	513	
	227	2201	646	1502	1473	1614	513	
	228	2203	693	1442	1462	1612	512	
	229	2210	774	1462	1477	1629	518	
	230	2207	790	761	748	1573	519	
	231	2214	846	1510	1523	1631	523	
	232	2206	853	1456	1474	1626	522	
	233	2200	1234	1500	1509	1658	511	
22.2	234	2219	410	1368	1368	1642	506	
	235	2231	618	1344	1350	1613	510	
	236	2221	900	1362	1368	1641	522	
22.4	237	2256	824	1290	1257	1640	510	
	238	2240	389	1498	1472	1613	497	
	239	2240	570	1481	1492	1610	490	
	240	2257	697	1487	1478	1614	488	
	241	2249	1162	1383	1381	1627	490	
22.6	242	2267	258	1283	1316	1597	491	
	243	2268	478	1016	1038	1611	497	
	244	2270	497	1460	1481	1613	494	
	245	2271	519	1453	1453	1609	493	
	246	2268	834	1471	1472	1607	503	

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1932phae.proj.12847

Cl.–Dk.	Mean Dif. Dk	Red Dif	Mag.
1132	830	733	696
1117	1000	896	off curve
1107	1012	914	off curve
1122	990	883	off curve
1129	1012	898	off curve
1129	1017	900	off curve
1127	978	866	841
1136	836	737	698
1104	915	828	798
1109	935	843	813
1101	975	885	off curve
1100	940	854	828
1111	952	857	830
1054	235	223	310
1108	993	898	off curve
1104	943	851	826
1147	993	867	842
1136	862	760	720
1103	837	758	830
1119	843	754	714
1130	734	650	618
1116	988	885	off curve
1120	996	889	off curve
1126	994	882	off curve
1137	892	785	748
1106	808	730	692
1114	530	476	478
1119	976	873	852
1116	960	861	837
1104	969	875	856

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1932phae.proj.12841

NGC - RA 3826 - Mar. 11, 1932

Strip	Star	y	x	Diff	Diff	Cl	Dk	Pairs
	247	2270	959	1484	1482	1622	492	
22.8	248	2296	318	1348	1381	1647	493	
	249	2281	853	1502	1505	1630	489	
	250	2296	861	1050	1058	1629	482	
	251	2292	881	1400	1406	1618	493	
	252	2294	1059	1249	1252	1627	492	
23.0	253	2310	842	1452	1462	1626	491	
	254	2300	1012	1412	1420	1638	488	
	255	2301	1099	1483	1493	1612	493	
	256	2310	1109	1353	1357	1630	477	
23.2	257	2337	307	1390	1400	1602	487	
	258	2326	488	1410	1400	1603	488	
	259	2320	612	1422	1429	1626	490	
23.4	260	2342	381	1142	1152	1608	489	
	261	2340	756	1464	1496	1602	490	
23.6	262	2363	411	1437	1452	1611	501	
	263	2359	564	1432	1433	1588	499	
	264	2358	804	1360	1359	1592	489	
	265	2377	979	1373	1384	1592	501	
	266	2362	1036	1437	1460	1623	502	
	1A	1920	846	630	—	1529	513	510
	1	2134	553	946	—	1562	508	
	2	—	—	1063	—	1583	513	
	3	—	—	1123	—	1604	520	
	4	—	—	1209	—	1568	510	
	5	—	—	1211	—	1615	520	
	6	—	—	1330	—	1589	521	
	7	—	—	1325	—	1600	520	
	8	—	—	1444	—	1596	512	

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1932phae.proj.12840

Cl.-Dk.	Mean Defl.-Dk.	Red. Defl.	Mag.
1130	991	879	+ off curve
1154	871	755	716 ⌐
1141	1015	890	+ off curve
1147	572	498	499 ⌐
1125	910	809	771 ⌐
1135	758	667	631 ⌐
1135	966	853	827 ⌐
1150	928	807	770 ⌐
1119	995	890	+ off curve
1153	878	762	724 ⌐
1115	908	814	780 ⌐
1116	917	823	791 ⌐
1136	935	823	791 ⌐
1114	673	604	579 ⌐
1112	990	890	+ off curve
1110	943	850	824 ⌐
1089	933	856	829 ⌐
1103	871	789	750 ⌐
1091	877	804	771 ⌐
1121	946	845	818 ⌐
1016	117	114	—
1054	438	415	—
1070	550	515	—
1084	603	556	—
1058	699	661	—
1095	691	632	—
1068	809	757	—
1080	805	747	—
1084	932	859	—

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1932phae.proj.12841

m.m.—RH 3826—Mar. 11, 1932,

Strip	Star	y	x	Defl.	Defl.	Rl.	Dk.	Volt.
	ls	1920	847	598		1598	458	5.17
	1	2134	553	923		1600	461	
	2			1049		1571	462	
	3			1090		1600	467	
	4			1196		1596	458	
	5			1200		1593	472	
	6			1297		1610	469	
	7			1330		1612	462	
	8			1439		1604	449	
23.8	✓267	2391	667	1421	1430	1601	460	
	×268	2391	672	1469	1473	1610	463	
	✓269	2379	717	1351	1352	1596	460	
	✓270	2397	748	1391	1393	1593	458	
	✓271	2385	932	1429	1428	1610	452	
	✓272	2392	955	1392	1410	1578	462	
	✓273	2395	1031	1410	1431	1620	454	
24.0	✓274	2410	420	1042	1065	1628	459	
	✓275	2412	451	1402	1406	1622	463	
	✓276	2407	520	1391	1390	1632	470	
	✓277	2400	590	1400	1383	1629	470	
	✓278	2403	629	1032	1032	1630	472	
	✓279	2401	768	1430	1458	1618	472	
24.2	×280	2426	420	1338	1352	1608	472	
24.4	✓281	2456	672	1148	1140	1594	478	
	✓282	2439	720	1157	1192	1598	475	
	✓283	2553	970	1288	1303	1591	482	
	ls	1920	847	600		1585	461	
	1	2134	553	907		1581	460	
	2			1056		1549	448	
	3			1091		1566	445	

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1932phae.proj.12841

Cl. Dk	mean Def. Dl	Red Defl	Mag.	
1140	140	123	—	
1139	462	405	—	
1109	587	530	—	
1133	623	550	—	
1138	738	649	—	
1121	728	650	—	
1141	828	725	—	
1150	868	755	—	
1155	990	858	—	
1141	965	844	829	
1147	1008	880	off curve +	
1136	892	787	767	
1135	934	823	807	
1158	976	845	828	
1116	939	840	823	
1166	966	829	810	
1169	595	509	523	
1159	941	813	795	
1162	920	792	772	
1159	922	795	775	
1158	560	483	504	
1146	972	849	833	
1136	873	779	759 +	outside circle
1116	666	598	590	
1123	699	623	610	
1109	813	734	713	
1124	139	124	—	
1121	447	398	—	
1101	608	551	—	
1121	646	576	—	

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1932phae.proj.12841

m. m. — RH 3826 — Mar. 11, 1932

Chip	Star	y	x	Diff.	Diff.	Ch.	Da.	Wt.
	4			1161		1556	444	
	5	—	—	1199	—	1608	463	
	6	—	—	1298	—	1601	462	
	7	—	—	1298	—	1592	467	
	8	—	—	1426	—	1577	472	5.07

P. S. R. — R. H. 3826 — March 12, 1932

	1s	1920	828	671	—	1617	467	5.20
	1	2134	537	1004	—	1634	466	
	2	—	—	1169	—	1605	464	
	3	—	—	1220	—	1619	468	
	4	—	—	1298	—	1622	457	
	5	—	—	1306	—	1613	468	
	6	—	—	1388	—	1611	468	
	7	—	—	1380	—	1634	468	
	8	—	—	1489	—	1621	469	
24.6	284	2471	481	1417	1418	1613	470	
	285	2471	659	1291	1292	1597	468	
24.8	286	2482	644	1484	1512	1623	472	
	287	2488	844	1098	1090	1610	467	
	288	2488	939	1465	1472	1629	465	
25.0	289	2507	548	1443	1440	1592	449	
	290	2512	585	1449	1447	1597	457	
25.2	291	2538	744	1459	1463	1608	443	
	1s	1920	830	652	—	1593	453	
	1	2134	537	985	—	1615	459	
	2	—	—	1127	—	1580	453	
	3	—	—	1177	—	1593	454	
	4	—	—	1233	—	1582	453	
	5	—	—	1243	—	1590	453	
	6	—	—	1336	—	1596	446	
	7	—	—	1327	—	1603	453	
	8	—	—	1454	—	1607	453	5.18

Plate Finished

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1932phae.proj.12841

Q 1 1 2 -Dk.	Mean Defl. -Dk.	Red Defl	Mag.	
11 45	717	645	—	
11 39	736	644	—	
11 25	836	736	—	
11 05	831	737	—	
	948	858	—	
11 50	204	177	—	
11 68	538	461	—	
11 41	705	618	—	
11 51	752	654	—	
~~1148~~ 1165	841	723	—	
11 45	838	733	—	
11 43	920	805	—	
11 66	912	781	—	
11 52	1020	884	—	
11 43	948	831	779	
11 29	824	731	656	
11 51	1026	889	859+	
11 43	627	548	499	
11 64	1003	862	822+	outside circle
11 43	993	869	830	
11 40	991	870	831	
11 65	1018	874	840	
11 40	199	175	—	
11 56	526	455	—	
11 27	674	599	—	
11 39	723	636	—	
11 29	780	691	—	
11 37	790	695	—	
11 50	890	775	—	
11 50	874	759	—	
11 54	1001	867	—	

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1932phae.proj.12841

m.m – RH 3825 – March 12, 1932

Strip	Star	y	x	Dyff.	Dyff.	Obs.	Obs.	Volts
	13	1929	852	1570	—	1652	500	5.26
	1	2129	557	743	—	1710	508	
	2	—	—	927	—	1700	512	
	3	—	—	971	—	1658	570	
	4	—	—	1087	—	1723	509	
	5	—	—	1105	—	1659	517	
	6	—	—	1178	—	1687	570	
	7	—	—	1260	—	1675	518	
	8	—	—	1410	—	1648	518	
13.8	✓ 1	1390	557	1473	1469	1653	502	
	✓ 2	1384	805	1412	1435	1632	507	
	3	1395	812	1370	1358	1651	505	
	✓ 4	1386	908	1508	1528	1639	510	
14.0	5	1472	670	1550	1532	1672	516	
14.4	✓ 6	1448	634	1379	1374	1668	512	
14.6	7	1469	649	1487	1500	1667	518	
	✓ 8	1471	676	1518	1570	1678	523	
	✓ 9	1459	720	1437	1429	1681	525	
	✓ 10	1469	832	1452	1448	1661	522	
	✓ 11	1463	858	1467	1479	1662	530	
	✓ 12	1462	1017	1320	1298	1668	530	
	✓ 13	1460	1018	1467	1452	1660	530	
14.8	✓ 14	1483	918	1252	1222	1652	538	
15.0	✓ 15	1515	462	1210	1225	1698	535	
double star at 1508, 1989	16	1504	752	1309	1310	1688	542	
15.4	✓ 17	1554	434	1473	1442	1697	538	double?
	✓ 18	1551	921	1412	1397	1658	530	
	✓ 19	1548	1101	1429	1419	1656	532	
15.6	✓ 20	1578	979	1039	1057	1657	536	
15.8	✓ 21	1592	349	1418	1404	1691	523	

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1022phec.proj.12941

Q.-Dk.	mean Defl.-Dk.	Red. Defl.	mag.
1152	70	61	—
1202	235	195	—
1188	415	350	—
1148	461	402	—
1214	578	476	—
1142	588	515	—
1177	668	566	—
1157	742	642	—
1130	892	789	—
1151	969	841	off curve
1125	917	815	off curve
1146	859	750	8·32
1129	1007	891	off curve
1156	1023	885	off curve
1156	864	745	830
1149	976	850	off curve
1155	991	859	off curve
1156	908	785	851
1139	928	815	off curve
1132	943	833	off curve
1138	779	685	792
1130	930	825	off curve
1114	699	628	750
1163	683	586	720
1146	768	670	780
1159	920	795	off curve
1128	874	775	848
1124	892	795	off curve
1127	515	457	626
1168	888	760	840

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1932phae.proj.12841

m.m.—RH 3825— March 12, 1932.

Step	Star	y	x	Defl.	Defl.	Cl.	Dk.	volt.
	22	1596	390	1228	1202	1727	532	
	23	1587	435	1312	1300	1702	530	
	24	1581	470	1400	1398	1692	537	
	25	1595	590	1315	1287	1708	532	
	26	1579	622	1298	1283	1682	533	
	27	1578	785	1106	1115	1678	528	
	28	1598	850	1305	1275	1660	522	
	29	1596	948	1211	1202	1638	520	
16.0	30	1615	347	1109	1102	1706	530	
	31	1612	508	1428	1422	1698	524	
	32	1611	521	1400	1406	1700	534	
	33	1604	541	1463	1465	1697	538	
	34	1611	881	1028	1048	1652	538	
16.2	35	1633	658	1395	1386	1670	523	
	36	1631	739	1323	1317	1656	526	
	37	1631	907	1398	1395	1662	529	
	38	1628	1080	1248	1254	1679	535	
16.4	39	1651	337	1338	1337	1692	529	
	40	1651	527	1062	1040	1703	522	
	41	1642	648	1402	1395	1691	522	
	42	1656	811	1278	1263	1654	528	
	43	1646	1083	872	880	1661	523	
16.6	44	1665	348	1263	1258	1703	510	
	45	1668	527	1323	1327	1693	538	
	46	1671	638	1132	1112	1682	515	
	47	1669	711	1158	1150	1640	508	
	48	1668	1788	1291	1280	1638	522	
	49	1674	990	1324	1314	1652	517	
	50	1659	1072	1310	1280	1639	502	
16.8	51	1692	460	1422	1452	1689	509	

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1024phd.ref.tod.eap.1984

Q.-Dk.	Mean Defg.-Dk.	Red. Defl.	Magn.
1195	683	572	712
1172	776	662	778
1155	862	746	830
1176	769	654	772
1149	757	660	777
1150	672	496	655
1138	768	675	785
1118	686	615	743
1176	576	490	651
1174	901	767	841
1166	869	739	825
1159	926	808	Incurve
1114	500	448	619
1147	867	756	836
1130	794	702	801
1133	867	765	841
1144	716	626	750
1163	809	689	791
1181	489	414	595
1169	876	750	832
1126	742	658	772
1138	353	310	321
1193	750	630	755
1155	787	683	791
1167	607	520	673
1132	646	571	712
1116	764	684	791
1135	802	706	804
1137	793	696	798
1180	928	785	851

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1932phae.proj.1284m

m.m. – RH 3825 – March 12, 1932

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volt.
	1s	1929	852	579	—	1648	500	
	1	2129	551	792	—	1708	500	
	2	—	—	923	—	1688	500	
	3	—	—	950	—	1668	500	
	4	—	—	1030	—	1706	582	
	5	—	—	1040	—	1661	570	
	6	—	—	1158	—	1684	570	
	7	—	—	1177	—	1652	570	
	8	—	—	1331	—	1638	512	5.20

MM – RH 3825 – March 13, 1932.

	1s	1929	849	586	—	1642	543	5.20
	1	2129	548	763	—	1753	553	
	2	—	—	884	—	1757	553	
	3	—	—	924	—	1700	548	
	4	—	—	1002	—	1742	548	
	5	—	—	978	—	1703	553	
	6	—	—	1163	—	1742	556	
	7	—	—	1209	—	1770	562	
	8	—	—	1328	—	1678	552	
17.0	5-2	1701	532	1317	1308	1773	570	
	5-3	1708	547	1423	1428	1771	572	
	5-4	1710	647	1250	1238	1763	561	
	5-5	1707	654	1377	1377	1742	563	
	5-6	1711	660	1446	1446	1758	567	
	5-7	1706	738	686	682	1697	576	
17.2	5-8	1720	397	1236	1250	1783	552	
	5-9	1725	455	1512	1509	1777	553	
	5-10	1720	479	1506	1536	1750	570	
	6 1	1719	672	1391	1386	1722	567	
	6 2	1726	828	1273	1256	1670	562	

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1932phae.proj.12401

Cl.-Dk.	Mean Defl-Dk	Red Defl	Mag	
1148	79	69	—	
1208	292	241	—	
1188	423	357	—	
1168	450	385	—	
1204	528	439	—	
1151	530	459	—	
1174	648	551	—	
1142	667	585	—	
1126	819	727	—	
1099	43	39	—	
1200	200	167	—	
1204	331	275	—	
1152	376	326	—	
1194	454	380	—	
1150	425	369	—	
1186	607	513	—	
1208	647	536	—	
1126	776	691	—	
1203	742	616	769	
1199	854	712	831	
1202	683	567	732	
1179	814	690	815	
1191	849	711	830	
1124	111	90	350	?
1231	691	561	731	
1224	957	780	827	
1280	951	744	845	
1155	821	711	831	
1108	702	634	780	

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1932phae.proj.1284m

KP-C # 3825- March 13, 1932.

St. φ	Stn.	y	x	Defl.	Defl.	α.	Dk.	volt.
	63	1720	863	1436	1453	1728	556	
17.4	64	1748	354	1123	1122	1791	554	
	65	1747	600	1314	1318	1761	552	
	66	1741	630	1549	1544	1731	562	
	67	1750	744	1547	1541	1729	563	
	68	1750	1098	1514	1513	1674	542	
	69	1748	1157	1012	1026	1718	552	
17.6	70	1777	777	1522	1506	1742	560	
	71	1760	1039	1012	1010	1712	552	
	72	1762	1171	1479	1518	1703	552	
17.8	73	1787	489	1486	1563	1742	553	
	74	1780	632	1418	1440	1769	560	
	75	1790	793	1444	1420	1730	557	
	76	1788	848	1081	1110	1705	566	
	77	1788	994	1408	1442	1703	558	
	78	1790	1118	1522	1523	1719	559	
18.0	79	1801	328	1513	1516	1786	551	
	80	1809	392	1477	1520	1762	561	
	81	1809	533	1306	1352	1757	552	
	82	1809	650	1512	1540	1752	561	
18.2	83	1820	261	1330	1343	1747	561	
	84	1833	292	1122	1168	1750	569	
	85	1819	397	1306	1280	1762	560	
	86	1817	480	1108	1098	1768	541	
	87	1831	647	1472	1487	1747	554	
	88	1829	749	1549	1519	1750	552	
	89	1829	792	1568	1478	1737	560	
	90	1830	796	1326	1303	1717	565	
	91	1831	933	1390	1390	1738	552	
	92	1820	1207	1590	1162	1742	559	

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1932phae.proj.12411

Cl.–Dk	Mean Defl.–Dk	Red. Defl.	Magn.	Remarks
1167	888	762	ff curve	
1237	568	460	657	
1209	764	632	780	
1169	984	840	ff curve	
1166	981	841	ff curve	
1132	962	850	ff curve	
1166	466	400	610 ~~718~~	
1182	954	806	ff curve	
1160	459	396	609	
1151	946	821	ff curve	
1189	971	819	ff curve	Large difference in deflection readings
1209	879	726	839	
1173	873	744	852	
1145	535	466	660	
1145	867	757	ff curve	
1160	963	830	ff curve	
1235	963	779	ff curve	
1201	937	780	ff curve	
1205	777	645	787	
1191	965	810	ff curve	
1186	775	655	792	
1181	576	488	675	
1202	733	609	760	
1227	558	455	652	
1193	926	776	ff curve	
1198	984	820	ff curve	
1177	930	790	ff curve	
1152	749	649	789	
1186	838	706	825	
1183	567	480	671	

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1932phae.proj.1284N

XJ Ps - R.A. 3825 - March 13, 1932.

Strip	Star	y	x	Diff	Diff	Ce	Ok	Volts
	93	1821	1273	1343	1253	1722	553	
18.4	94	1840	382	1239	1244	1770	558	
	95	1849	739	1570	1560	1791	557	
	96	1841	548	1357	1378	1739	564	
	97	1846	839	1476	1453	1707	563	
	98	1856	969	1290	1257	1714	565	
	99	1852	1183	1543	1536	1749	569	
18.6	100	1870	509	1590	1593	1795	564	
	101	1867	848	1110	1100	1700	561	
	102	1870	1133	1498	1483	1697	553	
	103	1862	1138	1300	1297	1712	553	
18.8	104	1890	253	1301	1268	1743	560	
	105	1890	552	1376	1394	1752	571	
	106	1890	669	1477	1470	1742	563	
	107	1891	759	1500	1486	1722	566	
	108	1890	921	1170	1150	1676	560	
	109	1890	922	1278	1276	1702	568	
	110	1879	1050	1384	1403	1728	570	
	1s	1929	849	629	—	1624	560	
	1	2129	548	772	—	1740	564	
	2	—	—	940	—	1736	574	
	3	—	—	980	—	1680	564	
	4	—	—	1038	—	1740	561	
	5	—	—	1081	—	1687	573	
	6	—	—	1186	—	1711	573	570
	7	—	—	1190	—	1730	561	
	8	—	—	1390	—	1662	568	

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1932phae.proj.12840

cl-Dk.	Mean Defl-Dk.	Red Defl.	Mag.	
1169	795	680	810	
1212	684	564	732	
1234	1008	816	curve	
1175	864	684	812	
1144	901	788	curve	
1149	709	619	768	
1180	971	825	curve	
1231	1028	835	curve	
1139	544	476	667	
1144	933	815	curve	
1159	745	643	783	
1183	724	610	762	
1181	714	605	760	
1179	911	766	curve	
1156	927	800	curve	
1116	600	536	710	double
1134	709	625	723	double
1158	824	710	829	
1064	69	65	—	
1176	208	177	—	
1162	366	314	—	
1116	416	374	—	
1179	477	406	—	
1114	508	456	—	
1138	613	539	—	
1169	629	539	—	
1094	822	750	—	

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1932phae.proj.1284m

m.m. — R.A. 3825- March 14, 1932.

Strip	Star	Y	X	Defl	Defl	cl	dk	Volts
	1s	1929	851	500	—	1408	472	5.22
	1	2129	550	759	—	1438	478	
	2	—	—	828	—	1416	478	
	3	—	—	830	—	1412	480	
	4	—	—	900	—	1421	482	
	5	—	—	868	—	1310	480	
	6	—	—	1010	—	1310	477	
	7	—	—	1001	—	1318	481	
	8	—	—	1068	—	1302	480	
19.0	111	1901	439	962	958	1332	484	
	112	1915	564	1000	992	1320	482	
	113	1911	681	1109	1110	1322	488	
	114	1900	1000	1101	1079	1310	480	
	115	1907	1315	1143	1098	1318	484	
19.2	116	1919	263	1090	1070	1317	488	
	117	1924	638	1059	1050	1322	492	
	118	1936	682	1150	1150	1309	490	
	119	1931	895	1086	1082	1295	482	
	120	1936	952	1003	988	1272	482	
	121	1930	1010	1142	1118	1282	481	
	122	1930	962	882	871	1294	482	
	123	1953	427	1010	1002	1328	490	
	124	1941	492	1136	1145	1320	489	
19.6	125	1960	581	1110	1110	1312	488	
19.8	126	1994	228	1057	1059	1322	490	
	127	1995	669	1130	1109	1320	501	
	128	1980	738	1138	1111	1292	480	
	129	1978	782	1109	1119	1298	489	
	130	1992	988	1021	1011	1285	490	
20.0	131	2002	298	993	1002	1310	500	

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1932phae.proj.12841

Q. Dk.	Mean Defl-Dk	Red Defl	Mag.
936	28	30	—
960	281	292	—
938	350	373	—
932	350	375	—
939	418	446	—
830	388	468	—
833	533	640	—
837	520	620	—
822	588	718	—
848	476	562	691
838	514	614	733
834	622	746	845
830	610	735	838
834	636	765	off curve
829	592	714	821
830	562	676	788
819	660	806	off curve
813	602	740	841
790	518	658	770
801	649	810	off curve
812	394	485	632
838	516	615	732
831	651	784	off curve
824	622	753	851
832	568	684	796
819	619	756	853
812	644	794	off curve
809	625	773	off curve
795	526	662	785
810	498	616	731

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1932phae.proj.12844

170

m.m.—RH 3825 - March 14, 1932

Strip	Star	y	x	Dyl.	Dyl.	Cl.	Dk.	v-l.
	132	2008	465	1135	1150	1322	492	
	133	2003	580	1068	1090	1321	492	
	134	2011	608	1039	1042	1303	483	
	135	2008	691	934	910	1298	478	
	136	2009	1007	988	954	1291	493	
20.2	137	2030	390	1001	1029	1312	497	
	138	2028	547	1140	1158	1318	489	
	Pl. R. 139.	2032	793	1083	1077	1291	493	5.14
	140	2023	886	1031	1028	1300	488	
20.4	141	2048	930	868	862	1291	492	
	142	2044	1149	1073	1081	1306	498	
	143	2045	1197	1037	1027	1312	498	
	144	2053	1303	1083	1085	1332	504	
20.6	145	2069	303	1037	1032	1326	493	
	146	2075	440	707	676	1310	488	
	147	2073	847	1062	1042	1292	503	
	148	2068	902	963	962	1282	476	
	149	2071	1010	949	925	1284	488	
	150	2066	1018	999	999	1284	492	
20.8	151	2086	605	1123	1118	1321	497	
	152	2090	724	1122	1148	1297	495	
	153	2098	1000	987	980	1282	478	
21.0	154	2117	284	960	963	1314	480	
	155	2114	475	1020	997	1327	492	
	156	2110	624	1102	1093	1287	486	
	157	2100	801	1068	1048	1313	485	
21.2	158	2137	332	1005	997	1302	480	
	159	2125	381	1099	1097	1294	482	
	160	2138	571	898	898	1297	473	
	161	2128	1047	1046	1033	1268	460	512

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1932phae.proj.12841

Cl.–Dk	mean Defl.–Dk.	Red. Defl.	Magn.	Remarks
830	650	784	ffeeney	
829	587	710	816 ✓	
820	557	680	792 ✓	
820	444	540	672 ✓	
798	478	598	709	
815	518	638	750 ✓	
829	660	795	ffeeney	
798	587	735		
812	542	666		20.4 – 21.4
799	373	466		re-measured.
808	578	715		
814	534	655		
828	580	700		
833	541	650		
822	204	248		
789	549	696		
806	486	604		
796	449	564		
792	507	640		
824	623	755		
802	640	798		
804	506	630		
834	482	576		
835	570	610		
801	612	765		
828	573	690		
822	521	635		
812	616	757		
824	425	515		
808	580	715		

Omit

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1932phae.proj.1284m

R.A. 3825 – March 14, 1932

Stop	Star	y	x	Diff.	Diff.	Cl.	Mag.	Notes
21.4	162	2147	628	1058	1050	1273	467	5.12
	163	2157	870	887	906	1266	472	
	164	2158	947	716	708	1272	468	
	165	2156	1050	974	939	1273	467	
	166	2156	1150	1081	1080	1268	464	
21.6	~~167~~	JP – RA 3825						
	167	2174	248	910	893	1338	497	
	168	2158	432	1170	1154	1370	478	
	169	2170	658	1202	1204	1452	497	
	170	2168	872	977	964	1410	508	
	171	2166	929	952	924	1449	513	
	172	2168	962	1168	1124	1461	512	
	173	2167	1237	1390	1348	1492	520	
21.8	174	2178	252	1330	1313	1520	521	
	175	2190	401	1120	1139	1542	520	
	176	2189	552	1370	1353	1510	513	
	177	2180	603	1322	1332	1517	521	
	178	2182	718	1339	1314	1509	517	
	179	2180	970	1290	1277	1478	513	
	180	2191	972	1292	1306	1490	512	
	181	2179	1091	1318	1311	1482	512	
	182	2189	1198	1333	1319	1488	522	
22.0	183	2211	399	1172	1130	1510	522	
	184	2200	531	1223	1217	1538	531	
	185	2200	533	1282	1290	1540	512	
	186	2201	541	1303	1283	1537	523	
	187	2202	689	1259	1253	1516	520	
	188	2210	770	1278	1267	1513	522	
	189	2204	787	1378	1376	1533	678	
	190	2204	850	1281	1293	1535	513	

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1932phae.proj.12840

Cl.-Dl	Mean Degf.-Dk	Red. Degf.	Magn.
806	587	727	Omit
794	524	660	
804	244	304	
806	489	606	
804	616	766	
836	405	484	692
892	684	765	off curve
955	706	740	off curve
912	462	506	707
936	425	455	658
949	634	668	817
972	849	874	off curve
999	801	802	off curve
1022	610	596	769
997	849	851	off curve
1016	826	811	off curve
992	809	815	off curve
965	771	798	off curve
978	787	804	off curve
970	802	826	off curve
966	804	830	off curve
988	629	635	797
1007	689	684	830
1028	774	754	off curve
1014	770	760	off curve
996	736	740	off curve
991	750	756	off curve
1016	59	58	304
1082	774	714	851

20.4 – 21.4 remeasured

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1932phae.proj.1284N

RP - RX 3825 - March 14 1932

trip	star	y	x	Δy	Δx	α	δ	volts
	×191	2600	1230	1363	1360	1602	531	
22.2	×192	2220	407	1280	1272	1603	528	
	×193	2222	488	1482	1473	1632	529	
	×194	2224	537	1473	1496	1642	529	
	×195	2231	615	1166	1140	1647	522	
	×196	2229	1242	1149	1130	1612	527	
22.4	×197	2207	321	1190	1172	1621	530	
	×198	2240	384	1440	1403	1637	520	
	×199	2240	567	1398	1400	1612	519	
	×200	2256	692	1373	1366	1630	524	
	×201	2247	1168	1180	1182	1612	522	
22.6	×202	2267	2053	1229	1237	1618	516	
	×203	2270	379	1468	1462	1629	528	
	×204	2263	897	1428	1432	1630	520	
	×205	2268	472	800	840	1640	521	
	×206	2270	493	1377	1390	1628	517	
	×207	2271	507	1338	1358	1612	522	
	×208	2268	831	1331	1317	1610	527	
	×209	2270	957	1383	1383	1606	522	
22.8	×210	2297	312	1403	1278	1623	531	
	×211	2281	850	1397	1390	1603	531	
	×212	2292	858	760	768	1612	530	
	×213	2291	878	1248	1248	1595	527	
	×214	2282	971	1412	1421	1600	533	
	×215	2287	997	1362	1353	1618	532	
	×216	2292	1056	998	972	1603	533	
23.0	×217	2310	838	1320	1321	1600	541	
	×218	2300	1009	1314	1272	1613	543	
	×219	2300	1095	1393	1383	1610	543	
	×220	2310	1104	1122	1152	1603	538	

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1932phae.proj.1284N

Cl.-Dk.	Mean. Dzfl.-Dk	Red.-Dzfl.	Nature
1071	831	776	Nf curve +
1125	748	665	815 ✓
1103	949	860	Nf curve +
1113	955	856	Nf curve +
1125	631	561	749 ✓
1085	613	563	750 + outside circle
1091	651	596	770
1117	926	830	Nf curve +
1093	880	805	Nf curve +
1106	846	765	Nf curve +
1090	659	605	776 ✓ ✓
1102	717	651	803
1101	837	760	Nf curve +
1110	910	820	Nf curve + ✓
1120	300	268	517
1111	867	779	Nf curve +
1090	826	757	Nf curve +
1083	797	735	Nf curve +
1084	861	795	Nf curve +
1092	759	694	836 ✓
1072	863	805	Nf curve +
1082	234	216	476 ✓
1068	719	674	822 ✓
1067	873	819	Nf curve +
1086	826	760	Nf curve +
1070	452	422	643 ✓
1059	779	736	Nf curve +
1070	750	701	841 ✓
1067	845	791	Nf curve +
1085	619	570	751 ✓

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1932phae.proj.1284m

KJP- RA 3825- March 14, 1932.

trip	Star	y	x	Δlefl	Δrefl	Ce	Δk	Volts
23.2	×221	2326	483	1341	1328	1627	542	
	×222	2320	608	1356	1338	1662	545	
23.4	×223	2336	301	1380	1361	1668	563	
	↓224	2342	377	1022	1050	1662	538	
	×225	2340	750	1372	1373	1627	548	
	↓226	2357	800	1262	1221	1621	544	
23.6	×227	2363	408	1400	1403	1663	540	
	×228	2358	559	1352	1323	1627	543	
	×229	2361	1032	1372	1368	1643	550	
23.8	×230	2391	663	1322	1329	1592	551	
	×231	2390	670	1378	1368	1587	550	
	×232	2377	690	1333	1302	1578	551	
	↓233	2380	716	1268	1237	1650	562	
	×234	2386	931	1283	1300	1598	556	
	↓235	2391	951	1277	1267	1603	550	
	↓236	2373	976	1276	1217	1620	564	
	↓237	2394	1029	1302	1319	1617	556	
	×238	2390	1038	1392	1396	1623	580	
	×239	2398	1100	1274	1296	1663	572	
	1A	1929	851	602	—	1623	580	
	1	2129	550	816	—	1717	579	
	2	—	—	902	—	1700	578	
	3	—	—	893	—	1688	568	
	4	—	—	1063	—	1728	573	
	5	—	—	972	—	1686	579	
	6	—	—	1178	—	1683	570	
	7	—	—	1151	—	1709	563	
	8	—	—	1290	—	1630	567	575

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1932phae.proj.12849

a.-Dk.	Mean Defl-Dk	Red Defl	Mag.
1085	792	730	Nearine +
1117	802	716	Nearine +
1100	809	735	Nearine +
1124	498	444	659 ✓
1079	824	764	Nearine +
1077	698	648	801 ✓
1113	862	774	Nearine +
1084	795	734	Nearine +
1093	812	742	Nearine +
1041	775	744	Nearine +
1037	818	790	Nearine +
1027	767	747	Nearine +
1088	688	634	793 ✓
1032	760	735	Nearine +
1053	712	676	822 ✓
1056	682	646	800 ✓
1061	754	710	847 ✓
1083	804	744	Nearine +
1081	713	657	809 + outside circle
1083	22	20	—
1138	234	205	—
1122	324	288	—
1120	325	290	—
1155	490	424	—
1107	393	354	—
1113	608	547	—
1146	588	514	—
1063	723	682	—

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1932phae.proj.1284m

M.M. — RH 3825 — March 15 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volt.
	ls	1929	872	558	—	1548	518	5.22
	1	2129	572	821	—	1601	529	
	2	—	—	900	—	1588	535	
	3	—	—	941	—	1571	538	
	4	—	—	1052	—	1608	535	
	5	—	—	1041	—	1566	540	
	6	—	—	1177	—	1588	537	
	7	—	—	1199	—	1578	538	
	8	—	—	1302	—	1564	538	
	↓240	2411	438	942	949	1589	538	
	↓241	2411	471	1320	1321	1598	547	
	↓242	2407	540	1318	1291	1591	534	
	↓243	2400	608	1258	1279	1599	541	
	↓244	2402	549	908	893	1569	532	
	245	2397	767	1291	1300	1558	538	
24.2	×246	2426	430	1310	1291	1589	541	
24.4	↓247	2455	691	1010	1013	1579	542	
	↓248	2439	740	1026	1041	1546	530	
	↓249	2451	989	1158	1142	1502	532	
24.6	↓250	2470	520	1182	1179	1506	558	
	↓251	2472	698	1022	1020	1540	559	
24.8	↓252	2488	880	813	832	1470	568	
	ls	1929	872	674	—	1550	582	
	1	2129	572	872	—	1678	589	
	2	—	—	1010	—	1678	581	
	3	—	—	1025	—	1610	580	
	4	—	—	1130	—	1660	602	
	5	—	—	1148	—	1662	600	
	6	—	—	1260	—	1654	591	
	7	—	—	1278	—	1661	583	
	8	—	—	1368	—	1662	572	

Humming and Hawing finished

Late finished

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1932phae.proj.12840

α.-Dk	Mean Dept-Dk	Red Dept	Mag
1030	40	39	—
1072	292	273	—
1053	365	346	—
1033	403	390	—
1073	517	484	—
1026	501	488	—
1051	640	609	—
1040	661	633	—
1026	764	745	—
1051	408	388	532 ✓
1051	773	735	834 ✓
1057	770	729	825 ✓
1058	727	687	780 ✓
1037	368	356	510 ✓
1020	758	744	842
1048	759	724	821+ outside circle
1037	470	454	583 ✓
1016	504	495	616 ✓
970	618	640	789 ✓
948	622	655	753 ✓
981	462	470	598 ✓
912	264	287	460
968	92	95	—
1089	283	260	—
1097	429	392	—
1030	445	432	—
1058	528	499	—
1062	548	515	—
1063	669	629	—
1078	695	645	—
1090	796	730	—

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1932phae.proj.1284m

KJP - R # 3672 - March 15, 1921

Step	Star		y	x	Diff	Diff	cc	Pk	Patch
		10	1971	923	622	—	1083	578	510
		1	1819	573	748	—	1132	562	
		2	—	—	820	—	1121	578	
		3	—	—	820	—	1147	582	
		4	—	—	877	—	1136	588	
		5	—	—	912	—	1132	594	
		6	—	—	978	—	1141	598	
		7	—	—	1063	—	1154	610	
		8	—	—	1072	—	1150	609	
13.6	Photom 146	1	1371	771	1054	1063	1163	609	
14.0	147	2	1409	547	1099	1895	1180	593	
	148	3	1417	726	1018	1022	1141	597	
14.4	149	4	1440	893	1073	1073	1137	590	
14.6	150	5	1460	668	1070	1088	1141	591	
15.2	151	6	1528	648	1040	1050	1168	590	
	152	7	1521	957	1071	1080	1142	586	
	153	8	1522	878	1047	1062	1137	591	
	154	9	1528	971	989	982	1136	600	
15.4	155	10	1553	512	1087	1088	1158	599	
	156	11	1540	739	1054	1077	1144	610	
	157	12	1540	1158	1083	1102	1154	594	
15.6	158	13	1571	1167	892	908	1112	578	
15.8	159	14	1578	643	952	972	1138	587	
16.0	160	15	1623	436	1018	1020	1178	612	
16.4	161	16	1650	227	1072	1080	1181	619	
	162	17	1648	273	1070	1082	1178	613	
16.6		18	1661	607	1021	1012	1183	628	
		19	1678	1048	1010	1018	1167	623	
		20	1668	1128	1063	1087	1170	620	
	163	21	1676	1201	972	979	1147	609	

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1932phae.proj..1284M

α.-Dk	mean. Defl.-Dk.	Red Defl	Mag.
505	44	87	—
570	186	327	—
543	242	444	—
565	238	421	—
548	289	526	—
538	318	590	—
543	380	698	—
544	393	721	—
541	463	858	—
544	449	825	810
587	504	858	840
544	423	778	774
541	483	884	off curve
550	488	890	off curve
578	455	785	778
559	492	879	859
546	463	849	832
533	385	722	724
559	489	874	854
534	456	853	835
560	498	891	off curve
534	322	603	634
551	375	680	694
566	407	720	724
562	457	812	800
565	463	820	806
555	388	709	708
544	391	718 / 882	793 / off curve
550	455	827	813
538	367	683	695

these stars are marked on RH 3672 for identification — now transferred to RH 3873 outside circle

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1932phae.proj.1284m

RJP - R # 3672 - March 15, 1932

Strip	Star	y	x	dyfe	dxfe	cc	dk	Volt
	164 22	1660	1213	1077	1080	1150	613	
16.8	23	1690	560	1016	1020	1161	605	
	24	1680	941	1052	1050	1163	612	
	25	1690	987	958	960	1162	618	
17.0	26	1700	511	1100	1102	1178	623	
	27	1710	512	1042	1062	1162	609	
17.4	28	1752	772	1032	1069	1170	623	
	165 29	1748	1268	1018	1022	1157	612	
17.6	30	1771	305	1090	1112	1177	621	
	31	1768	548	1092	1088	1173	614	
	32	1760	866	1093	1083	1177	613	
17.8	166 33	1780	222	1012	1021	1218	632	
	34	1784	389	1080	1094	1202	643	
	35	1789	499	897	894	1208	651	
	36	1791	1081	956	975	1181	638	
18.0	37	1806	257	887	903	1211	649	
	38	1801	348	973	990	1209	643	
	39	1800	1020	1103	1103	1209	654	
18.2	40	1832	243	1030	1019	1227	649	
	41	1815	737	1064	1065	1192	660	
	1x	1971	923	721	—	1150	649	
	1	1819	593	821	—	1183	630	
	2	—	—	896	—	1162	632	
	3	—	—	902	—	1197	653	
	4	—	—	966	—	1182	634	
	5	—	—	980	—	1176	642	
	6	—	—	1031	—	1183	650	
	7	—	—	1051	—	1182	650	
	8	—	—	1106	—	1183	663	0.05

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1932phae.proj..1284W

a.-Dr.	mean Defl.-Dr.	Red Dye	Mag.
537	465	865	848
556	413	744	743
541	439	811	800
544	341	626	653
555	478	825	810
553	443	801	791
547	427	782	775
545	408	750	750
556	480	868	850
559	476	850	834
564	475	842	824
586	384	656	675
559	444	795	786
557	245	440	517
543	327	603	634
562	246	437	515
566	339	599	632
555	449	810	798
578	375	648	668
542	414	764	760
501	72	144	—
553	191	346	—
530	264	497	—
544	249	457	—
548	332	605	—
534	338	634	—
533	381	715	—
532	401	755	—
520	443	850	—

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1932phae.proj.1284N

m.m-RH 3672-March 16, 1932

trip	star	y	x	diff	Diff	ce	dk	Volts
	ls	1971	931	600	—	1062	532	5.22
	1	1819	600	752	—	1081	539	
	2	—	—	836	—	1068	535	
	3	—	—	839	—	1082	537	
	4	—	—	875	—	1089	537	
	5	—	—	907	—	1080	538	
	6	—	—	949	—	1084	539	
	7	—	—	963	—	1080	532	
	8	—	—	1006	—	1082	531	
18.4	42	1841	1150	1030	1025	1087	548	
18.6	43	1871	528	963	971	1134	552	
	44	1867	579	1033	1036	1129	547	
	45	1871	932	861	866	1116	551	
18.8	46	1887	649	987	993	1128	543	
	47	1878	1035	992	998	1118	551	
19.0	48	1899	778	887	912	1109	539	
	49	1908	792	980	980	1089	521	
19.2	50	1925	553	858	863	1090	527	
	51	1934	801	990	999	1098	528	
	52	1929	880	1030	1032	1081	520	
	53	1932	1063	940	967	1086	519	
	54	1933	1172	942	956	1071	508	
19.4	55	1956	600	731	740	1070	493	
	56	1957	768	990	982	1051	500	
	57	1958	788	921	918	1061	517	
	58	1951	1132	983	995	1071	512	
	59	1939	1243	960	971	1075	510	
19.6	Leo	1969	758	942	969	1066	521	
	61	1975	867	985	983	1071	539	
	62	1967	1021	968	977	1062	532	

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1932phae.proj.12840

d-Dk	Mean Defl-Dk	Red Defl	Mag
530	68	128	—
542	213	393	—
539	301	565	—
545	302	554	—
552	338	614	—
542	369	681	—
545	410	752	—
548	431	785	—
551	475	861	—
539	480	888	853
582	415	715	690
582	487	840	800
565	313	555	559
585	447	767	735
567	444	785	750
570	360	631	617
568	459	808	768
563	333	592	587
570	466	819	777
561	511	911	offscale
567	435	768	736
563	441	791	753
577	242	419	459
557	486	882	844
544	403	740	710
559	477	851	812
565	455	805	765
545	434	797	757
532	445	837	~~546~~ 797
530	440	830	790

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1932phae.proj.1284m

m. m. – RH 3672 – March 16, 1932.

Strip	Star	y	x	Refl.	Refl.	Cl.	Dk.	volt.
	63	1977	1091	894	916	1083	539	
	64	1967	1261	772	753	1101	548	
	65	1966	1292	899	908	1100	541	
19.8	66	1983	430	934	939	1110	552	
	67	1983	560	1026	1038	1082	544	
	68	1997	1131	948	942	1078	548	
20.0	69	2008	778	978	988	1082	549	
	70	2006	910	1012	998	1081	549	
	71	2009	1265	1003	1012	1102	548	
20.2	72	2023	237	990	1002	1121	551	
	73	2029	799	953	972	1101	575	
	74	2027	952	913	910	1115	590	
20.4	75	2039	225	1042	1037	1170	614	
	76	2048	309	857	857	1167	619	
	77	2051	550	988	983	1122	600	
	78	2044	691	1003	1032	1140	608	
	79	2051	839	879	872	1143	612	
	80	2058	873	857	878	1135	612	
	81	2043	969	963	960	1157	614	
20.6	82	2066	469	1011	1018	1161	610	
	83	2071	850	995	1018	1139	608	
	84	2058	1020	1067	1059	1142	612	
20.8	85	2079	671	754	762	1117	602	
	86	2090	689	1028	1040	1130	608	
	87	2089	807	794	800	1108	590	
	88	2084	1187	920	913	1140	612	
	89	2081	202	900	878	1152	610	
21.0	90	2109	395	788	790	1152	608	
	91	2100	571	1081	1092	1181	622	

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1932phae.proj.12840

Cl – Dk	Mean Dif – Dk	Red Defl	Mag.
544	366	672	652
553	214	396	444
559	363	650	633
558	384	688	666
538	488	909	off curve
530	397	750	720
533	434	815	774
532	456	859	821
554	459	830	790
570	445	781	745
526	387	735	706
525	322	613	603
556	425	763	730
548	238	435	470
522	385	738	710
532	410	771	738
531	263	494	513
523	256	491	512
543	348	643	626
551	404	735	707
531	398	750	720
530	451	851	812
515	156	304	383
522	426	815	774
518	207	398	445
528	300	567	567
542	279	514	527
544	181	332	400
559	464	830	790

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1932phae.proj.12840

HgP - R H 3672 - March 16, 1932

Temp	Star	Y	X	Diff.	Diff.	cc	Dk	Volts
21.2	92	2129	448	1103	1113	1183	627	
	93	2131	637	1089	1092	1162	610	
	94	2121	1206	1006	982	1184	605	
21.4	95	2136	329	953	960	1173	606	
	96	2141	569	1022	1020	1178	614	
21.6	97	2170	329	1082	1083	1200	620	
	98	2157	582	1056	1056	1176	620	
	99	2170	877	938	940	1141	622	
	100	2160	1189	967	978	1168	623	
21.8	101	2180	697	1012	1028	1173	619	
22.0	102	2201	408	1062	1064	1167	602	
22.4	103	2247	970	1057	1058	1177	620	
	104	2252	660	983	1000	1147	613	
	105	2241	734	1010	1020	1140	613	
	106	2241	909	927	932	1138	609	
	107	2238	1174	881	893	1147	613	
	108	2253	1193	997	1005	1154	607	
22.6	109	2264	430	980	997	1183	603	
	110	2270	717	1062	1062	1162	603	
	111	2274	797	1063	1073	1182	611	
22.8	112	2288	1138	921	926	1172	613	
23.0	113	2300	407	1093	1102	1209	615	
	114	2300	1062	941	948	1160	611	
	115	2300	1063	1067	1059	1173	611	
23.2	116	2320	625	1056	1079	1206	608	
	117	2320	788	996	1019	1183	622	
	118	2321	1027	1071	1090	1200	626	
	119	2321	1032	1082	1087	1206	623	
23.4	120	2340	1071	1060	1054	1160	582	
23.6	121	2359	747	1030	1042	1182	600	

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1932phae.proj.12841

cc - Dk	Mean Dopl-Dk	Red Dupl	Mag
556	481	864	824
552	480	869	832
579	389	673	653
567	350	618	608
564	407	720	695
580	462	795	756
553	436	789	753
519	317	609	601
545	349	640	625
554	401	722	695
565	461	815	774
557	434	780	745
534	379	710	685
527	402	754	724
529	320	605	598
534	274	513	526
547	394	722	695
580	385	664	645
559	459	821	778
571	457	800	762
559	311	510	525
594	483	813	771
549	333	607	600
562	452	805	765
598	460	768	735
561	386	688	666
574	464	809	768
583	461	805	765
578	475	821	778
582	430	738	710

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1932phae.proj.1284N

XgP - RA 3672 - March 16, 1932.

Temp	Star	Y	X	Dyc	Dyf	Cc	Dk	Volts
	✓122	2370	992	1058	1057	1176	580	
23.8	✓123	2381	700	1098	1103	1180	587	
	✓124	2380	1071	1033	1041	1178	599	
24.0	✓125	2400	689	1030	1048	1182	610	
	✓126	2400	789	1068	1064	1168	600	
	✓127	2400	1082	823	826	1180	610	
24.2	✓128	2419	870	871	874	1181	612	
24.6	✓129	2468	478	842	826	1197	621	
	✓130	2477	549	1067	1065	1187	613	
24.8	✓131	2497	718	1092	1104	1190	602	
25.0	✓132	2502	789	999	990	1192	604	
	10	1971	931	663	—	1092	600	
Plate	1	1819	600	806	—	1141	581	
finished	2	—	—	878	—	1136	592	
	3	—	—	893	—	1147	592	
	4	—	—	928	—	1148	607	
	5	—	—	959	—	1150	601	
	6	—	—	1010	—	1157	604	
	7	—	—	1020	—	1143	601	
	8	—	—	1069	—	1141	599	505

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1932phae.proj.12849

Cl – Dk	Mean Defl – Dk	Red Defl	Mag.
596	478	805	765
593	513	862	823
579	438	760	728
572	429	750	720
568	466	820	778
570	214	375	429
569	260	458	488
576	213	370	426
574	453	790	753
588	496	841	801
588	390	662	644
492	63	128	—
560	225	403	—
541	286	530	—
555	301	543	—
541	321	594	—
549	358	652	—
553	406	735	—
542	419	775	—
542	470	868	—

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1932phae.proj.1284m

m.m. — RH3673 — March 17, 1932

Stuf	Stw	y	x	Defl	Defl	Cl.	Dk.	volt.
	ls	1971	929	483	—	1072	578	5.20
	1	1829	592	558	—	1061	533	
	2	—	—	623	—	1042	532	
	3	—	—	641	—	1080	539	
	4	—	—	650	—	1142	562	
	5	—	—	743	—	1145	562	
	6	—	—	808	—	1172	569	
	7	—	—	892	—	1192	578	
	8	—	—	970	—	1200	592	
13.6	1	1378	793	991	1010	1142	587	
14.2	2	1421	749	920	958	1131	581	
14.4	3	1447	917	1022	1038	1143	598	
15.2	4	1529	371	1005	998	1202	622	
	5	1529	901	1061	1043	1187	601	
	6	1533	995	951	958	1179	608	
15.4	7	1546	761	1030	1043	1208	628	
15.6	8	1579	1190	861	863	1222	633	
15.8	9	1583	667	939	933	1250	638	
	10	1579	1190	861	880	1231	640	
16.0	11	1605	458	998	1032	1252	638	
16.2	12	1619	584	1029	1067	1258	636	
16.4	13	1649	1129	1072	1118	1301	632	
16.6	14	1667	628	930	958	1252	630	
	15	1676	1149	1058	1072	1255	638	
16 8	16	1695	580	949	983	1257	630	
	17	1686	962	1078	1078	1289	649	
	18	1696	1012	892	912	1309	657	
	19	1683	1079	948	981	1300	632	
	20	1682	1221	961	938	1266	630	
17.0	21	1715	532	1026	1039	1278	622	

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1032phee.proj.12811

Cl-Dk	Mean Defl-Dk	Red Defl	Mag
554	—	—	—
528	25	47	—
510	91	178	—
541	102	189	—
580	88	152	—
583	181	310	—
603	239	396	—
614	314	512	—
608	378	620	—
555	423	763	off curve
550	358	652	832
545	432	790	off curve
580	380	657	834
586	451	770	off curve
571	346	606	806
580	408	705	857
589	229	389	702
612	298	497	753
591	230	389	702
614	377	613	810
622	412	661	834
669	463	691	850
622	314	507	757
617	427	692	850
627	336	537	772
640	429	670	840
658	351	532	768
668	332	496	753
636	320	507	757
656	410	625	817

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1932phae.proj.12840

m. m. – RH 3673 – March 17, 1932.

Strip	Star	y	x	Defl.	Defl.	cl.	Dk.	volt
	22	1698	1008	883	861	1258	631	Galvanometer often
17.4	23	1755	1289	1022	1031	1278	639	jumping - heavy
17.6	24	1759	792	1051	1024	1283	639	oscillation
17.8	25	1781	242	956	939	1332	662	& walking
	26	1793	520	773	728	1281	618	
18.0	27	1807	279	749	779	1308	602	
	28	1802	369	852	828	1290	610	
	29	1799	1100	891	911	1279	642	
18.2	30	1834	265	952	938	1300	642	
18.6	31	1876	540	1029	1062	1305	649	
18.8	32	1894	660	1052	1089	1307	638	
	33	1878	946	861	876	1282	658	
	34	1884	1048	1101	1108	1278	642	
19.0	35	1904	788	950	968	1311	663	
	36	1912	803	1124	1149	1333	669	
19.2	37	1929	568	924	941	1306	650	
19.4	38	1940	1076	1052	1079	1291	652	
	39	1940	1187	1071	1071	1302	658	
19.6	40	1961	611	734	748	1320	659	
	41	1962	800	990	1040	1310	641	
	42	1976	800	1018	1018	1278	641	
	43	1976	1275	739	729	1292	602	
	44	1975	1306	891	920	1271	618	
19.8	45	1988	342	980	1059	1318	640	
	46	1978	1102	960	951	1299	646	
20.0	47	2003	1146	1007	1013	1300	639	
20.2	48	2033	810	997	1037	1281	631	
	49	2034	963	941	923	1296	632	
20.4	50	2050	320	812	859	1321	642	
	51	2056	562	1001	1044	1298	640	

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1032phee.proj: 12841

Cl-Dk	Mean Dufl-Dk	Red Dufl	Mag.
627	241	384	698
639	387	607	807
644	399	120	814
670	280	418	715
663	132	197	587
706	162	228	604
680	230	339	670
637	259	406	710
658	303	460	735
656	396	603	804
669	432	645	827
624	210	336	667
636	462	725	off curve
648	296	457	734
664	467	702	855
656	282	429	721
639	413	648	828
644	413	640	824
661	82	124	536
669	374	560	783
637	377	592	800
690	132	191	583
663	288	441	726
678	380	561	783
653	310	475	744
661	371	562	783
650	386	594	802
664	300	452	732
679	193	284	636
658	382	581	793

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1932phae.proj.1284m

m.m.— RH 3673 — March 17, 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volt
	S-2	2057	702	1072	1048	1298	643	
	S-3	2056	851	782	775	1299	632	
	54	2049	981	902	888	1271	649	
20.6	S5	2069	480	1069	1082	1297	642	
	S-6	2061	887	785	757	1315	643	
20.8	S-7	2082	681	691	700	1311	650	
	S-8	2093	818	750	712	1292	651	
	S-9	2078	862	1092	1083	1281	649	
	60	2083	1199	822	841	1288	638	
21.0	61	2110	348	720	714	1299	648	
21.2	62	2129	1228	950	959	1310	670	
21.4	63	2138	340	942	967	1325	668	
	64	2148	580	1102	1062	1342	678	
21.6	65	2169	1201	939	948	1328	673	
21.8	66	2186	608	1072	1080	1316	677	
	67	2177	889	961	930	1318	682	
22.4	68	2249	380	1131	1130	1332	678	
	69	2258	670	1081	1059	1319	686	
	70	2248	742	1096	1083	1333	686	
	71	2250	970	883	960	1309	678	
	72	2244	1186	835	848	1312	673	
22.6	73	2269	441	1035	1069	1296	672	
	74	2261	1202	1005	1065	1320	679	
22.8	75	2294	1149	868	886	1298	662	
23.0	76	2305	1072	932	979	1312	670	
23.2	77	2326	798	1057	1060	1319	639	
23.6	78	2362	756	1123	1141	1289	661	
23.8	79	2386	1081	1142	1150	1338	680	
24.0	80	2406	699	1134	1116	1329	672	
24.2	81	2436	750	1139	1159	1351	689	

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1932phae.proj.12840

Q – Dk	Mean Defl – Dk	Red Defl	Mag.
655	442	674	842
667	146	218	598
622	246	395	704
655	428	655	833
672	134	199	587
661	45	68	484
641	80	125	538
632	439	696	853
650	194	299	646
651	69	106	524
640	284	444	728
657	286	435	724
664	404	609	808
655	271	407	711
639	399	625	816
636	264	414	714
654	452	690	850
633	384	607	807
647	403	623	815
631	244	386	700
639	169	265	625
624	380	608	807
641	356	554	780
636	215	338	670
642	286	444	728
680	419	617	813
628	471	750	off curve
658	466	709	859
657	344	529	764
662	460	696	853

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1932phae.proj.1284m

198

m.m. — RH 3673 — March 17, 1932.

Slip	Star	y	x	Decl.	Defl.	Cl.	Dk.	Volt.
	82	2423	879	971	958	1311	682	
24.8	83	2480	539	1154	1169	1319	683	
25.0	84	2509	798	1022	1012	1352	682	
	ls	1971	929	691		1310	681	
	1	1829	592	707		1291	689	
	2	—	—	780	—	1248	677	
	3	—	—	798	—	1289	678	
	4	—	—	802	—	1303	673	
	5	—	—	852	—	1256	669	
	6	—	—	922	—	1296	674	
	7	—	—	939	—	1299	672	
	8	—	—	1071	—	1274	660	5.10

Plate finished.

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1932phae.proj.1284M

Cl–Dk	Mean Dyf-Dk	Red Dyf	Mag.
629	282	447	730 ~
636	479	754	off curve ~
670	335	500	754 ~
629	10	16	—
602	18	30	—
571	103	180	—
611	120	196	—
630	129	205	—
587	183	311	—
622	248	400	—
627	267	425	—
614	411	669	—

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1932phae.proj.1284M

M. M. — RH 3873 — March 24, 1932.

Strip	Stn	y	x	Defl.	Defl	Cl.	Dk.	volt.
	1s	1946	911	643		1320	527	5.22
	1	1824	568	1022		1328	538	
sudden jump →	2	—	—	1258		1587	589	
hammering overhead.	3	—	—	1409		1702	612	
	4	—	—	1410		1712	610	
	5	—	—	1458		1710	609	
	6	—	—	1471		1692	603	
	7	—	—	1531		1692	578	
	8	—	—	1588		1683	573	
15.2	✓ 1	1528	900	1550	1561	1638	583	
15.4	✓ 2	1558	548	1525	1538	1621	589	
	✓ 3	1543	761	1542	1532	1635	594	
15.8	✓ 4	1581	668	1461	1425	1638	581	
16.0	✓ 5	1607	458	1500	1502	1648	563	
	✓ 6	1619	587	1528	1520	1641	575	
16.2	✓ 7	1644	689	1592	1562	1642	562	
	✓ 8	1642	1001	1573	1581	1650	563	
	✓ 9	1669	896	1561	1564	1645	561	
	✓ 10	1667	629	1463	1459	1638	559	
	✓ 11	1671	1150	1536	1528	1623	530	
16.8	✓ 12	1695	581	1440	1449	1621	532	
	✓ 13	1689	881	1532	1537	1617	532	
	✓ 14	1685	964	1500	1502	1618	537	
	✓ 15	1697	1009	1403	1402	1628	530	
	✓ 16	1682	1080	1448	1448	1610	549	
17.0	✓ 17	1704	534	1512	1521	1592	539	
	✓ 18	1714	535	1463	1470	1578	542	
17.2	✓ 19	1729	973	1572	1539	1620	549	
17.4	✓ 20	1739	628	1531	1531	1623	540	
	✓ 21	1749	1095	563	548	1630	558	

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1932phae.proj.1284m

d–Dk	Mean Diff-Dk	Red Diff	Mag
793	116	146	—
790	484	612	—
998	669	667	—
1090	797	733	—
1102	800	725	—
1101	849	771	—
1089	868	798	—
1114	953	855	—
1110	1015	915	—
1055	973	921	8.41
1032	943	912	8.25
1041	943	904	8.10
1057	862	814	6.90
1085	938	865	7.57
1066	949	891	7.94
1080	1015	940	off curve
1087	1014	933	8.59
1084	1001	923	8.43
1079	902	835	7.17
1093	1002	916	8.34
1089	912	838	7.20
1085	1002	924	8.44
1081	964	891	7.94
1078	852	790	6.58
1061	899	846	7.30
1053	977	929	8.53
1036	924	892	7.94
1071	977	911	8.24
1083	991	915	8.30
1072	—		

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1932phae.proj.1284m

M.M. — RH 3873 — March 24, 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	volt.
17.6	✓22	1775	329	1470	1481	1578	558	
	✓23	1772	571	1475	1460	1548	541	
	✓24	1759	795	1418	1421	1550	548	
	✓25	1762	889	1466	1469	1548	539	
17.8	✓26	1788	512	1449	1442	1551	548	
	✓27	1792	521	1220	1193	1566	542	
	✓28	1794	1103	1338	1330	1579	540	
18.0	✓29	1809	280	1220	1225	1607	550	
	✓30	1803	570	1328	1338	1648	566	
	✓31	1804	1043	1533	1530	1652	560	
18.2	✓32	1837	269	1421	1410	1720	601	
	✓33	1819	488	1648	1642	1743	611	
	✓34	1830	668	1639	1635	1760	610	
	✓35	1819	761	1578	1581	1731	592	
	✓36	1830	1096	1653	1678	1766	612	
18.4	✓37	1847	768	1705	1690	1762	628	
	✓38	1846	1168	1669	1670	1770	619	
18.6	✓39	1875	542	1556	1553	1778	623	
	✓40	1870	593	1672	1680	1789	620	
18.8	✓41	1889	632	1662	1668	1773	609	
	✓42	1893	666	1583	1583	1760	600	
	✓43	1875	949	1412	1448	1759	593	
	✓44	1880	1092	1655	1660	1761	586	
	✓45	1882	1051	1632	1632	1752	578	
19.0	✓46	1902	791	1506	1492	1741	580	
	✓47	1909	810	1609	1598	1752	582	
	ls	1946	911	782	—	1733	578	
	1	1824	568	1198	—	1732	572	
	2	—	—	1318	—	1700	572	
	3	—	—	1402	—	1728	570	

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1932phae.proj.1284M

Cl - Dk	Mean Dyl-Dk	Dyl-Dk	Mag
1020	918	900	807
1007	927	920	840
1002	872	870	765
1009	929	921	841
1003	898	895	800
1024	664	647	509
1039	794	764	624
1057	672	637	501
1082	767	708	567
1092	972	890	794
1119	815	728	588
1132	1034	913	827
1150	1026	890	794
1139	988	868	764
1154	1054	913	825
1134	1070	944	off curve
1151	951	826	706
1155	931	805	678
1169	1056	903	811
1164	1056	915	833
1160	983	847	733
1166	837	717	576
1175	1072	913	827
1174	1054	898	804
1161	919	791	658
1170	1022	875	773
1155	204	177	—
1160	626	540	—
1128	746	664	—
1158	832	720	—

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1932phae.proj.1284m

M.M. – RH 3873 – March 24, 1932.

Strip	Stn	y	x	Defl.	Defl.	α.	Dk	wolf.
	4	—	—	1400	—	1733	569	
	5	—	—	1452	—	1720	560	
	6	—	—	1468	—	1720	563	
	7	—	—	1542	—	1720	552	
	8	—	—	1616.	—	1716	545	5.18

P.S.R. – R.H. 3873 – March 25, 1932 5.07

15	1946	960	730	—	1303	555
1	1824	617	987	—	1309	537
2	—	—	1083	—	1292	559
3	—	—	1137	—	1320	537
4	—	—	1168	—		
5	—	—				
6	—					
7						
8						

Gave up — instrument jumping and varying all over scale — much hammering overhead.

19.2

SJP – RH 3873 – March 26, 1932

14			—	
1	—	—	—	
2	—	—	—	
3	—	—	—	
4	—	—	—	
5	—	—	—	
6	—	—	—	
7	—	—	—	
8	—	—	—	

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1932phae.proj.1284m

Cl-Dk	Mean Defl-Dk	Red Defl	Mag.
1164	831	715	—
1160	892	770	—
1157	905	784	—
1168	990	848	—
1171	1071	915	—

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1932phae.proj.12840

m.m. — RH 3873 — March 25, 1932

Strip	Star	y	x	Defl	Defl	Cl.	Dk.	Volt.
	ls	1946	918	690		1581	492	5.21
	1	1824	574	1118		1607	485	
	2	—	—	1209		1572	484	
	3	—	—	1301		1592	492	
	4	—	—	1318		1602	488	
	5	—	—	1352	—	1603	483	
	6	—	—	1430	—	1602	489	
	7	—	—	1421	—	1603	484	
	8	—	—	1570	—	1588	477	
19.2	48	1933	395	1502	1493	1598	481	
	49	1929	579	1282	1282	1622	487	
	50	1925	722	1532	1515	1604	490	
	51	1937	1087	1449	1461	1607	478	
19.4	52	1938	826	1475	1464	1609	481	
	53	1955	1157	1502	1495	1618	479	
	54	1939	1195	1449	1448	1616	476	
	55	1942	1268	1448	1457	1611	466	
19.6	56	1960	622	1142	1122	1601	472	
	57	1962	811	1364	1381	1600	472	
	58	1976	812	1439	1457	1618	481	
	59	1971	1045	1478	1452	1602	488	
	60	1977	1116	1373	1380	1610	491	
	61	1972	1286	1189	1210	1611	481	
	62	1971	1318	1362	1343	1618	481	
19.8	63	1989	352	1368	1357	1601	468	
	64	1988	582	1470	1478	1602	465	
	65	1979	890	1477	1481	1605	487	
20.0	66	2011	800	1491	1482	1614	493	
	67	2010	932	1505	1512	1608	492	
	68	2001	1155	1438	1412	1627	503	

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1932phae.proj.12840

el-Dk	Mean Dyf-Dk	Red Dyf	Mag
1089	198	182	—
1122	633	564	—
1088	725	666	—
1100	809	735	—
1114	825	740	—
1120	869	775	—
1113	941	846	—
1119	937	839	—
1111	1033	930	—
1117	1017	912	820
1136	795	700	554
1114	1034	929	843
1129	977	865	754
1128	989	877	770
1139	1019	895	796
1140	972	854	738
1145	986	861	747
1129	660	585	464
1128	900	798	663
1137	967	850	733
1114	977	875	769
1119	885	792	654
1130	719	637	500
1137	871	765	624
1133	894	787	658
1137	1009	889	787
1118	992	888	787
1121	993	885	784
1116	1016	911	818
1124	922	820	693

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1932phae.proj.1284M

m. m. – RH 3873 – March 25, 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Db.	volt
	69	2015	1288	1576	1574	1627	506	
20.2	70	2026	261	1452	1472	1627	521	
	71	2033	821	1449	1438	1626	497	
	72	2032	975	1323	1344	1618	502	
20.4	73	2043	250	1500	1489	1629	511	
	74	2050	331	1190	1218	1607	509	
	75	2057	574	1433	1399	1629	524	
	76	2050	714	1469	1478	1632	522	
	77	2056	861	1288	1292	1628	520	
	78	2048	991	1348	1345	1632	514	
20.6	79	2070	492	1422	1420	1627	497	
	80	2078	873	1433	1410	1600	492	
	81	2061	898	1228	1200	1598	497	
	82	2061	1043	1492	1491	1618	500	
20.8	83	2082	692	1082	1068	1616	507	
	84	2095	711	1462	1463	1624	521	
	85	2092	830	1120	1116	1621	512	
	86	2081	1210	1328	1288	1638	516	
	87	2088	1328	1263	1276	1615	512	
	ls	1946	918	712	—	1608	518	
	1	1824	574	1110	—	1600	522	
	2	—	—	1232	—	1579	528	
	3	—	—	1303	—	1606	518	
	4	—	—	1320	—	1602	519	
	5	—	—	1310	—	1611	521	
	6	—	—	1428	—	1608	523	
	7	—	—	1443	—	1609	523	
	8	—	—	1518	—	1615	522	5.20

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1932phae.proj.12841

Cl-Dk	Mean Defl-Dk	Res Defl	Mag.
1121	1009	900	803
1106	941	850	734
1129	947	840	720
1116	832	745	600
1118	983	881	775
1098	695	633	497
1105	882	798	663
1110	952	857	744
1108	770	695	550
1118	832	744	600
1130	924	816	688
1108	930	840	720
1101	717	652	512
1118	992	887	786
1109	568	513	417
1103	941	852	734
1109	606	547	438
1122	792	705	560
1103	758	686	543
1090	194	178	—
1078	588	546	—
1051	704	669	—
1088	785	723	—
1083	801	740	—
1090	789	725	—
1085	905	835	—
1086	920	847	—
1093	996	914	—

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1932phae.proj.1284m

210 Windy. α Jr = R H 3873 - March 26, 1932.

Strip	Star	y	x	dyf	dyf	ce	dk	Vets
	1A	1946	909	661	—	1484	473	515
	1	1824	567	1077	—	1551	473	"
	2	—	—	1198	—	1512	467	
	3	—	—	1291	—	1573	477	
	4	—	—	1363	—	1573	478	
	5	—	—	1331	—	1568	472	
	6	—	—	1411	—	1573	477	
	7	—	—	1423	—	1578	473	
	8	—	—	1517	—	1608	483	
21.0	✓88	2111	300	1020	1026	1603	478	
	✓89	2102	587	1502	1503	1604	500	
21.2	✓m.m.	2138	343	1312	1314	1602	488	
	✓91	2122	459	1502	1487	1627	498	
	✓92	2134	657	1531	1527	1618	502	
	✓93	2128	1230	1431	1440	1642	570	
	✓94	2118	1341	1478	1484	1637	521	
21.4	✓95	2146	583	1448	1441	1621	518	
21.6	✓96	2174	343	1510	1488	1642	518	
	✓97	2160	597	1517	1572	1658	572	
	✓98	2176	891	1406	1373	1628	512	
	✓99	2165	1202	1429	1450	1622	531	
21.8	✓100	2184	610	1468	1460	1638	521	
22.0	✓101	2206	421	1470	1489	1642	529	
22.4	✓102	2249	383	1500	1497	1631	539	
	✓103	2249	749	1472	1462	1619	535	
	✓104	2248	972	1428	1439	1642	546	
	✓105	2241	1190	1410	1412	1648	542	
22.6	✓106	2269	446	1439	1428	1658	548	
	✓107	2258	672	1503	1502	1639	548	
	✓108	2274	730	1569	1552	1642	538	

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1932phae.proj.12841

Cl-Dk	Mean Dyf-Dk	Red Dyf	Mag
1011	188	186	—
1078	604	560	—
1045	731	700	—
1096	814	743	—
1095	825	755	—
1096	859	785	—
1096	934	852	—
1105	950	860	—
1125	1034	920	—
1125	546	485	380
1104	1002	903	795
1114	825	738	567
1129	997	883	761
1116	1027	922	830
1132	926	817	660
1116	960	863	726
1103	926	840	692
1124	981	872	743
1146	1002	875	746
1116	878	785	619
1091	909	832	680
1117	943	845	697
1113	851	764	794
1092	959	877	750
1084	932	859	721
1096	888	810	653
1106	869	786	620
1110	886	797	634
1091	954	872	742
1084	1002	924	832

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1932phae.proj.1284N

M. M. — RH 3873 — March 26, 1932.

Strip	Star	y	x	Defl.	Defl.	Cl.	Dk.	Volt.
	✓109	2259	1209	1570	1521	1647	555	
	✓110	2258	1265	1528	1502	1662	551	
22.8	✓111	2292	1151	1399	1388	1672	569	
23.0	✓112	2302	1077	1441	1430	1651	552	
23.2	✓113	2326	540	1491	1490	1648	562	
	✓114	2325	801	1479	1481	1656	559	
	✓115	2326	1041	1514	1526	1641	562	
	✓116	2327	1047	1552	1532	1658	569	
23.4	✓117	2347	1086	1549	1546	1669	579	
23.6	✓118	2369	344	1562	1541	1652	572	
	✓119	2360	769	1537	1526	1641	571	
	✓120	2377	1005	1550	1541	1628	572	
23.8	✓121	2383	1085	1484	1490	1598	567	
24.0	✓122	2403	702	1429	1438	1582	567	
	✓123	2404	814	1462	1470	1601	565	
	✓124	2403	1096	1279	1237	1591	565	
24.2	✓125	2435	753	1442	1422	1581	569	
	✓126	2420	882	1339	1303	1578	551	
	✓127	2421	1182	1492	1497	1608	563	
	✓128	2430	1193	1355	1370	1608	580	
24.6	✓129	2460	409	1470	1474	1607	581	
	✓130	2470	491	1189	1148	1591	578	
	✓131	2476	1029	1472	1466	1610	579	
24.8	✓132	2480	562	1465	1457	1602	578	
25.0	✓133	2499	730	1519	1502	1608	591	
	✓134	2508	801	1388	1382	1610	592	
25.2	✓135	2528	493	1548	1530	1602	580	
	✓136	2530	913	1526	1522	1604	582	
25.6	✓137	2548	608	1580	1584	1573	578	
	✓138	2570	655	1510	1496	1588	592	
	✓139	2539	722	1508	1520	1606	587	

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1932phae.proj.12840

Cl-Dk	Decl-Dk.	Red. Decl.	Magn.
1092	951	872	742
1111	964	867	737
1103	825	747	577
1099	884	806	747
1086	928	855	715
1097	921	840	692
1079	958	888	770
1089	983	903	795
1090	969	888	772
1080	980	908	807
1070	961	899	789
1056	974	923	830
1031	920	893	778
1015	867	854	712
1036	901	871	742
1026	693	675	504
1012	863	852	708
997	740	742	571
1045	931	891	775
1028	782	761	592
1026	891	868	737
1013	590	583	434
1031	890	868	735 ~~off axis~~
1024	883	862	724
1017	919	902	794
1018	793	779	613
1022	959	939	857
1022	940	920	827
995	924	927	837
996	910	913	813
1019	921	910	810

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1932phae.proj.12840

KJP - EN 3873 - March 26, 1932

Strip	Star	y	x	Defl	Defe	Ce	Dk	Beta
	139 (40)	2070	967	1526	1527	1600	578	
	140 (1)	2071	979	1522	1509	1606	581	
25.8	142	2082	697	1500	1483	1600	578	
26.2	143	2621	783	1500	1508	1618	579	
	143 (4)	2676	807	1560	1562	1632	574	
	147 (5)	2622	858	1446	1450	1642	583	
	1A	1946	909	849	—	1640	590	
Plate	1	1824	567	1232	—	1636	582	
	2	—	—	1327	—	1596	582	
	3	—	—	1399	—	1632	573	
Invalid	4	—	—	1398	—	1632	583	
	5	—	—	1430	—	1638	578	
	6	—	—	1498	—	1637	575	
	7	—	—	1508	—	1642	578	
	8	—	—	1570	—	1647	577	500

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Cl-Dk	Mean Dyf-Dk	Red Dyf	Mag
1022	947	928	840
1025	935	912	812
1022	924	903	796
1039	925	890	774
1058	987	931	843
1059	865	817	660
1050	259	247	—
1051	650	618	—
1014	755	745	—
1059	826	783	—
1049	815	777	—
1060	852	805	—
1062	923	870	—
1064	930	875	—
1070	993	927	—

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XJP- RA 3874- March 27, 1932

Strip	Star	y	x	Dyfe	Dyfe	ce	dk	Palett
	10	1942	939	568		1523	477	510.
	1	1832	591	918	—	1579	490	
	2	—	—	1072	—	1629	521	
	3	—	—	1136	—	1624	518	
	4	—	—	1198	—	1632	504	
	5	—	—	1223	—	1696	506	
	6	—	—	1363	—	1719	531	
	7	—	—	1486	—	1716	514	
	8	—	—	1534	—	1720	523	
15.2	1	1523	914	1560	1502	1711	530	
15.4	2	1541	773	1527	1536	1697	540	
15.8	3	1580	681	1408	1403	1712	517	
16.0	4	1617	599	1543	1537	1711	541	
16.4	5	1640	1016	1589	1617	1739	537	
16.6	6	1665	642	1417	1430	1730	530	
	7	1670	882	1623	1626	1701	502	
	8	1669	1163	1539	1532	1748	524	
16.8	9	1691	597	1423	1428	1701	538	
	10	1684	896	1588	1592	1708	528	
	11	1680	978	1516	1530	1722	518	
	12	1690	1022	1302	1297	1718	522	
	13	1679	1095	1391	1399	1719	537	
	14	1677	1237	1352	1347	1758	533	
17.0	15	1701	549	1559	1542	1672	526	
	16	1711	549	1453	1449	1659	530	
17.2	17	1721	657	1582	1598	1652	528	
	18	1428	988	1587	1586	1712	535	
17.4	19	1757	809	1464	1468	1676	520	
	20	1760	1306	1468	1473	1784	524	
17.6	21	1770	584	1598	1600	1724	524	

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cl-Dk	Mean Defl-Dk	Red Eye	Mag.
1046	91	87	—
1089	428	394	—
1108	551	497	—
1111	620	558	—
1129	694	615	—
1187	717	605	—
1188	832	702	—
1202	969	805	—
1197	1011	845	—
1181	1026	868	845
1157	992	858	833
1195	888	744	714
1170	999	854	826
1202	1066	886	off curve
1200	894	745	716
1198	1128	942	off curve
1224	1012	828	798
1163	887	764	733
1180	1062	900	off curve
1204	1005	835	805
1196	777	650	638
1182	858	726	702
1225	816	667	653
1146	1024	894	off curve
1129	921	816	786
1124	1062	945	off curve
1177	1051	895	off curve
1156	946	820	790
1260	946	752	722
1200	1075	895	off curve

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ZC-R # 3874- March 27, 1932.

Mag	Star	Y	X	Dyf	Dyf	Cl	Dk	Rk
	22	1761	902	1601	1603	1713	0513	
17.8	23	1788	326	1548	1548	1743	560	
	24	1790	537	1168	1178	1752	570	
	25	1791	1118	1389	1392	1798	573	
18.0	26	1802	383	1326	1327	1751	592	
	27	1800	1057	1596	1562	1807	581	
18.2	28	1830	681	1640	1643	1787	593	
	29	1818	772	1589	1569	1809	599	
18.4	30	1841	1181	1697	1693	1842	592	
	31	1848	1235	1730	1741	1836	590	
18.6	32	1873	558	1511	1516	1777	593	
	33	1870	608	1657	1653	1782	580	
	34	1872	962	1299	1318	1814	586	
18.8	35	1890	678	1553	1530	1788	557	
19.0	36	1901	806	1400	1396	1767	583	
	37	1910	823	1603	1600	1779	577	
19.2	38	1928	583	1331	1332	1744	564	
	39	1933	1202	1542	1550	1770	568	
19.4	40	1939	832	1543	1600	1763	572	
	41	1921	1043	1522	1515	1753	572	
	42	1951	1163	1602	1621	1782	562	
	43	1946	1243	1570	1583	1790	580	
	10	1942	939	696	—	1672	572	
	1	1832	691	1030	—	1730	578	
	2	—	—	1173	—	1730	581	
	3	—	—	1239	—	1751	582	
	4	—	—	1307	—	1757	581	
	5	—	—	1370	—	1781	580	
Gritin B1486,82	6	—	—	1448	—	1768	592	
	7	—	—	1542	—	1738	590	500
	8	—	—	1606	—	1771	591	

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Cl-Dk	Mean Dif-Dk	Red Dif	Mag
1200	1069	890	off curve
1183	988	835	805
1182	603	510	525
1225	793	647	635
1159	734	634	624
1226	998	815	784
1194	1049	878	856
1210	980	810	778
1250	1103	884	off curve
1246	1145	919	off curve
1184	921	780	748
1202	1075	895	off curve
1228	722	588	588
1231	975	792	758
1184	815	689	670
1202	1025	851	823
1180	768	652	638
1202	978	814	782
1191	1024	860	834
1181	946	803	769
1220	1050	860	834
1210	996	825	795
1100	124	113	—
1152	452	392	—
1149	592	515	—
1169	657	563	—
1176	726	617	—
1201	790	658	—
1176	856	730	—
1148	952	830	—
1180	1015	860	—

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