

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P24519

Luminaire Tested: **MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P24519  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12  
Description: METALUX MPR3 2X4 AMBIENT/EXAM/READING LIGHT  
Light Source: (4) 3500K LED LIGHT STRIPS  
1UT217049835  
Ballast/Driver: (2) 48W ADVANCE ELECTRONIC DRIVERS  
LEDINTA2000C24DOM

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3956.8 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.12 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 1.35' x L: 1.88' x H: 0.1')  
CIE Type: Direct

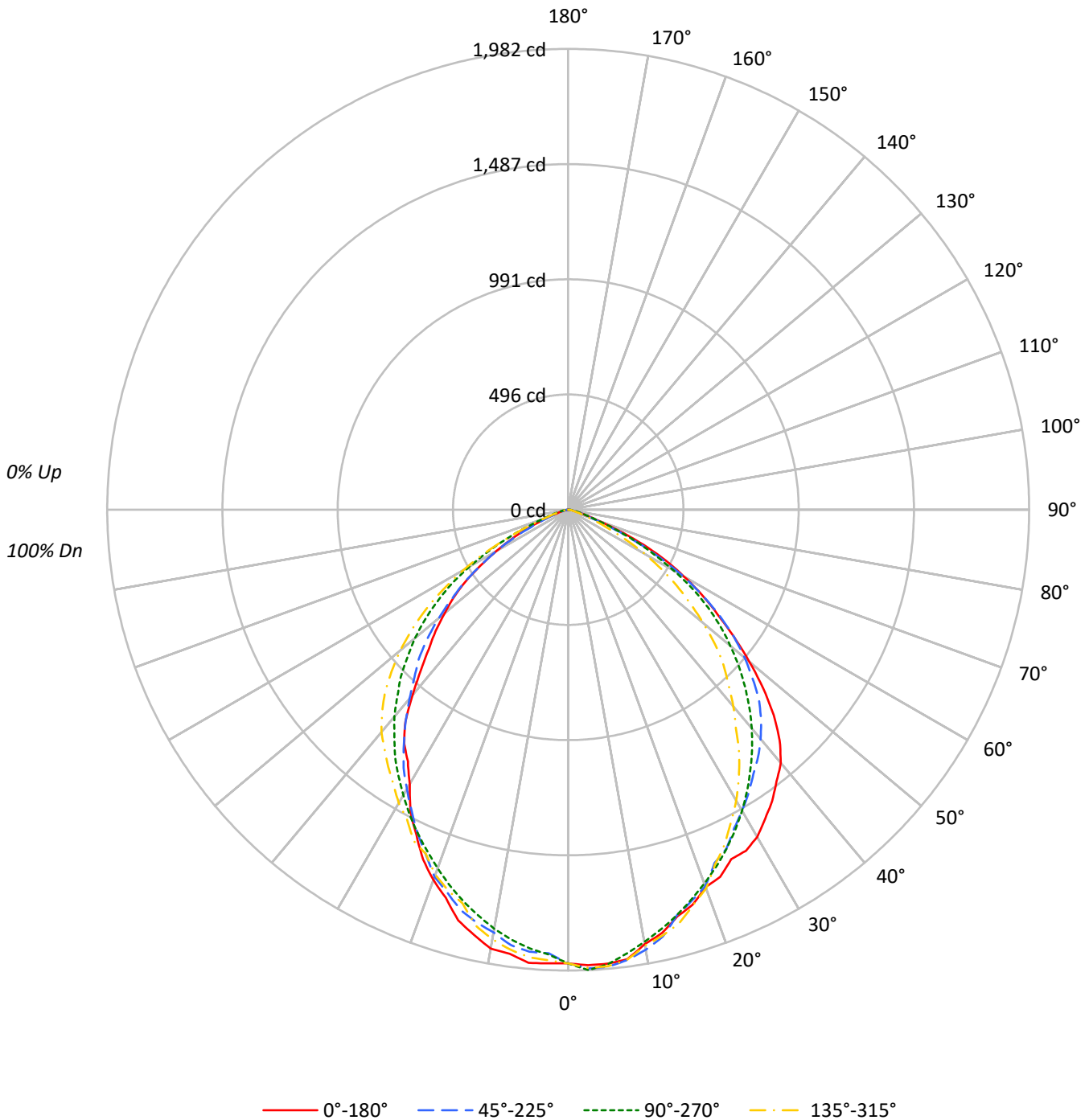
Input Watts (W): 68.8  
Input Voltage (V): 120.05  
Input Current (A<sub>in</sub>): 0.574  
Voltage Rise (V): NR  
Power Factor: 0.9989  
Total Harmonic Distortion (THDi): 7.18%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90					89				
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79					77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69					67				
4	88	77	69	64	85	76	69	63	73	67	62	71	66	61	69	65	61					59				
5	81	70	62	56	79	69	61	55	67	60	55	65	59	54	63	58	54					52				
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48					46				
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43					41				
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39					37				
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35					34				
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32					31				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8271	8271	8271	8271
5°	8302	8296	8285	8008
10°	8090	8019	8175	7776
15°	7836	7768	7910	7501
20°	7643	7517	7501	7209
25°	7567	7280	7047	6932
30°	7717	7019	6473	6653
35°	7628	6722	6131	6387
40°	7532	6399	5509	6061
45°	7109	5996	4827	5684
50°	6306	5516	4297	5213
55°	5378	4907	3709	4587
60°	4463	3939	2771	3683
65°	3214	2728	1782	2442
70°	1470	1350	811	1185
75°	669	745	396	668
80°	300	482	187	413
85°	91	317	91	237



TEST NUMBER: P24519

CATALOG NUMBER: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.7	4.6
10°-20°	506.9	12.8
20°-30°	729.0	18.4
30°-40°	832.9	21.1
40°-50°	792.7	20.0
50°-60°	589.9	14.9
60°-70°	261.9	6.6
70°-80°	51.0	1.3
80°-90°	8.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1419.6	35.9
0°-40°	2252.5	56.9
0°-60°	3635.2	91.9
0°-90°	3956.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3956.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1951	1951	1951	1951	1951	
5°	1960	1962	1956	1894	1960	185
15°	1811	1805	1828	1743	1811	513
25°	1658	1610	1544	1533	1658	774
35°	1529	1366	1229	1298	1529	956
45°	1249	1074	848	1018	1249	954
55°	783	734	540	686	783	705
65°	357	315	198	282	357	350
75°	49	58	29	52	49	61
85°	3	12	3	9	3	5
90°	0	0	0	0	0	



TEST NUMBER: P24519

CATALOG NUMBER: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951
2.5°	1961	1963	1968	1973	1979	1982	1984	1978	1974	1975	1980
5°	1960	1966	1969	1974	1980	1983	1983	1979	1973	1973	1976
7.5°	1950	1955	1956	1960	1968	1971	1972	1966	1957	1953	1954
10°	1897	1908	1905	1915	1936	1943	1941	1938	1928	1922	1920
12.5°	1865	1868	1868	1871	1872	1871	1870	1873	1879	1881	1880
15°	1811	1823	1823	1842	1849	1847	1840	1824	1809	1806	1821
17.5°	1781	1781	1780	1777	1771	1767	1773	1780	1778	1764	1754
20°	1727	1730	1729	1746	1750	1742	1728	1706	1702	1723	1718
22.5°	1709	1708	1703	1695	1683	1672	1678	1681	1660	1645	1662
25°	1658	1659	1650	1647	1650	1647	1629	1609	1613	1609	1591
27.5°	1654	1655	1648	1632	1612	1590	1580	1579	1553	1545	1555
30°	1625	1624	1612	1593	1576	1571	1548	1518	1509	1495	1490
32.5°	1576	1576	1571	1569	1554	1530	1505	1493	1453	1444	1435
35°	1529	1530	1520	1507	1491	1482	1476	1440	1414	1388	1383
37.5°	1472	1471	1456	1440	1431	1428	1412	1396	1364	1341	1317
40°	1422	1418	1400	1385	1373	1356	1338	1330	1310	1287	1267
42.5°	1346	1343	1330	1320	1308	1289	1277	1254	1247	1228	1200
45°	1249	1250	1237	1234	1224	1214	1203	1181	1166	1160	1140
47.5°	1137	1138	1131	1129	1120	1121	1114	1100	1086	1076	1065
50°	1017	1015	1010	1011	1007	1015	1008	1008	997	990	981
52.5°	897	893	887	889	886	897	896	899	901	897	892
55°	783	775	768	770	769	776	775	784	792	795	791
57.5°	682	673	658	652	655	656	657	664	675	683	675
60°	575	564	554	546	541	540	539	544	553	565	560
62.5°	474	460	445	434	428	427	420	419	428	439	437
65°	357	345	333	323	315	311	302	302	305	311	310
67.5°	234	226	220	216	211	208	198	193	192	197	206
70°	136	130	129	127	126	124	117	113	112	114	122
72.5°	80	78	76	75	73	72	69	68	69	70	74
75°	49	47	47	46	46	45	44	44	45	46	48
77.5°	28	28	28	28	28	28	29	29	30	31	33
80°	16	16	16	17	17	18	18	19	20	21	22
82.5°	8	8	8	9	10	11	11	12	13	14	15
85°	3	4	4	5	6	6	7	8	8	9	9
87.5°	1	2	2	3	3	4	5	5	6	6	7
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P24519

CATALOG NUMBER: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951
2.5°	1981	1981	1980	1980	1983	1984	1981	1982	1980	1982	1984
5°	1977	1974	1971	1968	1967	1966	1960	1962	1958	1961	1965
7.5°	1952	1949	1944	1941	1938	1934	1926	1925	1920	1926	1932
10°	1919	1915	1910	1908	1904	1899	1889	1887	1883	1888	1897
12.5°	1877	1874	1869	1868	1864	1858	1850	1848	1843	1851	1862
15°	1831	1828	1822	1823	1820	1814	1805	1805	1802	1812	1824
17.5°	1763	1780	1774	1776	1774	1768	1758	1759	1759	1773	1785
20°	1706	1715	1725	1726	1725	1719	1710	1711	1711	1730	1736
22.5°	1671	1654	1674	1675	1674	1669	1659	1662	1664	1683	1681
25°	1608	1609	1604	1622	1620	1617	1608	1610	1614	1633	1626
27.5°	1540	1558	1550	1563	1564	1562	1559	1554	1567	1576	1572
30°	1496	1480	1500	1493	1505	1501	1499	1495	1509	1513	1515
32.5°	1438	1429	1440	1428	1443	1438	1436	1432	1448	1446	1454
35°	1363	1375	1360	1368	1375	1372	1370	1366	1383	1377	1387
37.5°	1310	1298	1294	1303	1302	1304	1303	1298	1315	1307	1314
40°	1237	1231	1230	1228	1225	1232	1232	1228	1242	1235	1239
42.5°	1176	1167	1152	1146	1149	1158	1158	1153	1164	1158	1160
45°	1103	1088	1075	1069	1073	1081	1081	1074	1081	1077	1074
47.5°	1033	1016	1001	991	992	999	1000	994	997	990	983
50°	959	933	915	903	904	913	918	910	911	902	890
52.5°	875	851	832	819	817	833	833	825	823	813	797
55°	778	758	742	731	727	742	742	734	731	718	697
57.5°	676	661	647	635	632	645	645	635	631	616	593
60°	564	554	543	532	526	535	534	524	518	503	480
62.5°	443	437	429	419	416	423	423	416	409	391	369
65°	319	319	319	317	318	325	324	315	309	294	272
67.5°	210	219	224	223	221	224	220	212	209	197	182
70°	128	137	142	141	138	139	136	131	130	122	113
72.5°	77	82	86	88	88	90	88	85	84	80	73
75°	50	53	56	58	58	60	60	58	57	54	50
77.5°	34	36	38	39	40	42	41	40	40	37	34
80°	23	24	25	27	27	28	28	28	28	26	24
82.5°	15	16	17	18	18	19	19	19	19	17	16
85°	10	10	11	12	12	12	12	12	12	11	11
87.5°	7	7	7	8	8	8	8	8	8	8	8
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P24519

CATALOG NUMBER: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951
2.5°	1981	1979	1978	1977	1975	1973	1968	1966	1966	1971	1970
5°	1963	1963	1964	1968	1970	1971	1970	1969	1972	1976	1975
7.5°	1935	1938	1943	1948	1951	1951	1947	1942	1943	1944	1942
10°	1904	1909	1910	1909	1906	1904	1905	1909	1919	1928	1930
12.5°	1869	1868	1863	1860	1866	1876	1881	1883	1888	1887	1886
15°	1828	1819	1817	1827	1837	1842	1832	1827	1833	1839	1844
17.5°	1781	1772	1784	1790	1787	1784	1785	1782	1778	1761	1760
20°	1728	1735	1743	1735	1733	1733	1715	1697	1699	1701	1708
22.5°	1681	1692	1687	1683	1675	1651	1641	1638	1635	1627	1625
25°	1635	1637	1632	1621	1595	1590	1575	1556	1559	1564	1559
27.5°	1584	1576	1570	1542	1535	1515	1502	1497	1487	1471	1467
30°	1521	1515	1489	1478	1454	1445	1432	1405	1401	1393	1357
32.5°	1451	1441	1418	1398	1385	1366	1342	1324	1288	1286	1292
35°	1384	1358	1343	1321	1307	1282	1248	1222	1219	1199	1211
37.5°	1308	1284	1258	1246	1224	1185	1165	1142	1141	1142	1144
40°	1223	1202	1184	1159	1132	1105	1080	1077	1067	1060	1060
42.5°	1139	1116	1096	1074	1048	1019	1010	997	982	954	955
45°	1054	1033	1012	983	956	945	929	899	882	857	854
47.5°	959	939	914	892	880	856	827	805	784	775	766
50°	868	848	828	804	785	757	730	715	697	688	682
52.5°	773	753	727	710	687	659	643	626	613	603	601
55°	677	654	632	611	586	569	552	539	528	521	521
57.5°	574	551	530	511	493	474	462	448	444	439	437
60°	462	445	427	411	394	381	368	361	355	343	339
62.5°	348	334	320	310	293	282	274	265	261	256	259
65°	253	238	222	213	197	189	183	184	187	183	186
67.5°	170	158	145	134	123	121	120	118	123	121	121
70°	105	98	89	84	78	77	76	76	75	73	73
72.5°	68	63	58	54	51	49	48	46	46	46	46
75°	46	43	40	38	35	33	32	31	32	32	32
77.5°	32	30	28	26	25	23	22	21	20	19	20
80°	22	21	19	18	17	16	15	14	13	13	12
82.5°	15	14	14	13	12	11	10	10	9	8	8
85°	10	10	9	9	9	8	7	7	6	5	5
87.5°	7	7	7	7	7	6	6	5	5	4	4
90°	0	0	0	0	0	0	0	0	0	0	0





TEST NUMBER: P24519

CATALOG NUMBER: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951
2.5°	1967	1963	1961	1953	1942	1932	1927	1928	1930	1927	1921
5°	1972	1968	1966	1956	1945	1936	1930	1935	1935	1931	1925
7.5°	1937	1935	1935	1926	1912	1903	1898	1903	1903	1897	1896
10°	1928	1926	1928	1917	1906	1894	1888	1891	1885	1874	1863
12.5°	1882	1881	1882	1873	1863	1851	1848	1853	1851	1844	1840
15°	1844	1841	1841	1828	1820	1812	1806	1814	1807	1795	1786
17.5°	1761	1760	1761	1750	1739	1730	1729	1732	1735	1740	1744
20°	1708	1705	1703	1695	1680	1673	1676	1677	1669	1660	1658
22.5°	1629	1633	1634	1629	1615	1603	1598	1599	1593	1596	1600
25°	1551	1548	1547	1544	1526	1520	1530	1535	1529	1521	1518
27.5°	1468	1472	1473	1468	1452	1443	1445	1441	1434	1445	1455
30°	1352	1361	1367	1363	1345	1331	1330	1339	1354	1366	1363
32.5°	1281	1282	1288	1283	1265	1256	1264	1262	1253	1260	1287
35°	1219	1230	1239	1229	1216	1204	1195	1182	1175	1190	1184
37.5°	1139	1148	1158	1150	1138	1124	1121	1116	1118	1109	1109
40°	1036	1040	1048	1040	1029	1019	1027	1037	1037	1039	1043
42.5°	939	941	946	937	938	921	931	933	936	960	964
45°	845	848	857	848	839	831	836	833	842	861	873
47.5°	759	763	771	773	766	748	752	746	749	765	781
50°	675	681	691	693	684	667	670	664	664	677	696
52.5°	595	606	618	621	613	594	588	586	584	595	601
55°	520	528	538	540	535	517	514	507	502	515	516
57.5°	426	432	443	445	439	430	426	425	430	425	428
60°	337	344	355	357	352	335	334	329	337	341	340
62.5°	265	266	277	278	274	266	257	251	249	245	247
65°	189	188	197	198	196	191	185	184	178	172	170
67.5°	117	120	125	126	125	123	119	117	120	119	112
70°	74	72	75	75	75	73	74	72	70	73	73
72.5°	46	45	46	47	46	46	45	44	44	46	42
75°	31	29	29	29	29	28	31	33	34	27	28
77.5°	20	18	18	18	18	19	19	17	18	18	18
80°	11	11	10	10	10	10	10	10	11	11	12
82.5°	7	6	6	5	5	6	6	6	7	7	8
85°	4	4	3	3	3	3	4	4	4	5	5
87.5°	3	2	2	1	2	2	2	2	3	3	3
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P24519

CATALOG NUMBER: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951
2.5°	1915	1910	1905	1902	1902	1904	1905	1912	1914	1916	1915
5°	1916	1908	1900	1894	1891	1891	1888	1891	1891	1892	1894
7.5°	1890	1889	1883	1876	1871	1870	1863	1862	1861	1862	1865
10°	1850	1846	1842	1840	1844	1844	1838	1834	1828	1828	1830
12.5°	1828	1818	1803	1793	1800	1810	1808	1801	1791	1786	1787
15°	1779	1783	1774	1761	1752	1760	1765	1762	1750	1742	1743
17.5°	1734	1727	1725	1723	1714	1709	1714	1718	1707	1696	1694
20°	1667	1680	1671	1664	1670	1667	1659	1665	1659	1645	1641
22.5°	1593	1602	1617	1611	1609	1619	1607	1606	1606	1591	1587
25°	1527	1534	1531	1548	1548	1559	1555	1545	1552	1538	1533
27.5°	1450	1459	1463	1464	1489	1491	1505	1486	1496	1485	1478
30°	1380	1387	1387	1398	1415	1434	1437	1428	1430	1424	1417
32.5°	1292	1317	1320	1333	1343	1366	1370	1367	1363	1366	1358
35°	1207	1232	1250	1256	1275	1289	1307	1307	1298	1305	1298
37.5°	1126	1147	1166	1189	1197	1218	1235	1230	1222	1232	1227
40°	1039	1061	1085	1106	1123	1138	1152	1157	1155	1165	1163
42.5°	972	978	998	1024	1040	1056	1073	1081	1077	1086	1086
45°	899	908	909	934	959	973	990	1003	1004	1014	1018
47.5°	799	822	836	850	868	890	908	917	919	929	936
50°	710	728	743	762	781	799	816	829	838	851	860
52.5°	623	630	650	670	685	710	728	736	749	763	775
55°	531	545	550	578	592	613	635	643	657	672	686
57.5°	444	447	461	479	501	511	529	556	562	578	594
60°	348	360	364	380	397	411	420	448	454	473	490
62.5°	261	264	265	281	292	308	313	339	350	368	384
65°	174	177	172	189	196	212	222	245	252	268	282
67.5°	111	108	106	115	124	136	151	160	163	175	184
70°	73	68	66	71	76	83	93	99	102	109	115
72.5°	43	43	46	47	50	54	60	65	67	72	75
75°	29	29	31	33	34	37	41	44	46	49	52
77.5°	19	20	21	22	24	26	28	30	33	34	36
80°	13	13	14	15	16	17	19	20	22	23	24
82.5°	8	9	9	10	11	11	12	13	14	15	16
85°	5	6	6	7	7	7	7	8	9	9	9
87.5°	4	4	4	4	4	5	5	5	5	5	5
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P24519

CATALOG NUMBER: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951
2.5°	1915	1917	1917	1918	1919	1927	1935	1940	1940	1941	1943
5°	1894	1900	1903	1906	1909	1917	1925	1930	1932	1934	1938
7.5°	1868	1874	1877	1879	1881	1889	1898	1904	1908	1913	1919
10°	1831	1837	1840	1844	1847	1854	1865	1872	1876	1882	1890
12.5°	1788	1795	1799	1802	1806	1814	1823	1831	1833	1825	1818
15°	1743	1751	1753	1757	1760	1767	1774	1766	1753	1762	1779
17.5°	1694	1701	1706	1709	1711	1717	1701	1703	1717	1734	1738
20°	1641	1650	1655	1659	1661	1645	1648	1667	1670	1657	1671
22.5°	1587	1597	1601	1605	1596	1589	1609	1604	1601	1624	1641
25°	1534	1543	1545	1549	1529	1545	1543	1545	1571	1564	1572
27.5°	1478	1487	1489	1485	1479	1489	1480	1506	1501	1516	1540
30°	1419	1429	1431	1419	1429	1415	1436	1430	1457	1466	1483
32.5°	1360	1367	1373	1356	1360	1365	1367	1387	1399	1419	1454
35°	1299	1308	1306	1299	1287	1303	1307	1328	1349	1371	1407
37.5°	1227	1236	1227	1230	1231	1230	1248	1269	1297	1331	1354
40°	1163	1171	1157	1146	1160	1169	1178	1214	1249	1268	1292
42.5°	1086	1097	1087	1078	1086	1095	1119	1153	1184	1204	1216
45°	1018	1024	1011	1002	1013	1024	1047	1086	1115	1123	1144
47.5°	935	942	932	928	933	951	978	1012	1030	1042	1063
50°	860	863	848	840	850	871	904	924	942	952	969
52.5°	775	772	762	761	769	788	818	833	847	853	862
55°	686	684	679	668	679	697	722	731	745	744	748
57.5°	595	592	586	577	586	599	619	627	636	629	632
60°	490	486	481	476	486	496	511	517	522	512	514
62.5°	383	377	373	369	376	384	397	399	404	395	398
65°	280	278	277	271	273	273	279	281	285	278	284
67.5°	182	182	184	181	183	180	180	175	177	172	179
70°	114	113	114	112	112	110	108	104	103	100	104
72.5°	75	74	74	71	70	68	67	64	64	62	63
75°	51	51	50	48	46	44	44	42	42	40	40
77.5°	36	35	34	33	31	31	29	28	28	26	26
80°	24	24	23	22	21	20	19	19	18	17	16
82.5°	16	15	15	14	14	13	12	11	11	10	10
85°	9	9	9	9	8	8	7	7	6	6	5
87.5°	5	5	5	5	5	5	4	4	4	3	3
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P24519

CATALOG NUMBER: MPR3-G-LD3-UNV-XX/XX/LO-ED3C-S68I/OLK12

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1951	1951	1951	1951	1951	1951	1951
2.5°	1947	1952	1959	1954	1956	1957	1961
5°	1943	1950	1956	1952	1955	1957	1960
7.5°	1928	1938	1943	1939	1943	1947	1950
10°	1899	1903	1903	1894	1895	1897	1897
12.5°	1824	1837	1846	1847	1854	1860	1865
15°	1800	1811	1816	1809	1810	1812	1811
17.5°	1731	1733	1750	1756	1767	1776	1781
20°	1694	1712	1728	1715	1717	1721	1727
22.5°	1639	1646	1664	1675	1690	1702	1709
25°	1600	1622	1629	1625	1639	1653	1658
27.5°	1545	1566	1594	1615	1635	1646	1654
30°	1520	1544	1557	1575	1598	1616	1625
32.5°	1473	1506	1536	1542	1552	1567	1576
35°	1442	1450	1470	1483	1502	1520	1529
37.5°	1374	1395	1406	1417	1438	1461	1472
40°	1306	1324	1349	1360	1382	1408	1422
42.5°	1240	1258	1283	1294	1309	1332	1346
45°	1167	1180	1201	1207	1218	1237	1249
47.5°	1081	1086	1097	1104	1111	1125	1137
50°	976	981	985	986	990	1003	1017
52.5°	863	865	866	866	870	883	897
55°	745	745	750	747	754	769	783
57.5°	628	626	636	631	649	666	682
60°	511	517	525	530	546	559	575
62.5°	397	404	418	420	441	458	474
65°	284	296	308	312	330	342	357
67.5°	184	195	206	206	217	222	234
70°	108	115	122	121	127	128	136
72.5°	64	68	72	75	75	80	80
75°	41	42	44	46	45	46	49
77.5°	25	26	27	26	27	29	28
80°	15	15	15	15	15	16	16
82.5°	9	9	8	8	8	8	8
85°	5	5	4	4	4	3	3
87.5°	3	3	2	2	2	1	1
90°	0	0	0	0	0	0	0

(END OF REPORT)