

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: P24517

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P24517  
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/LO/XX-ED3C-XX  
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: 6108.6 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.01 / 1.18  
Luminous Opening: Rectangular w/ Sides (W: 1.35' x L: 1.88' x H: 0.1')  
CIE Type: Direct

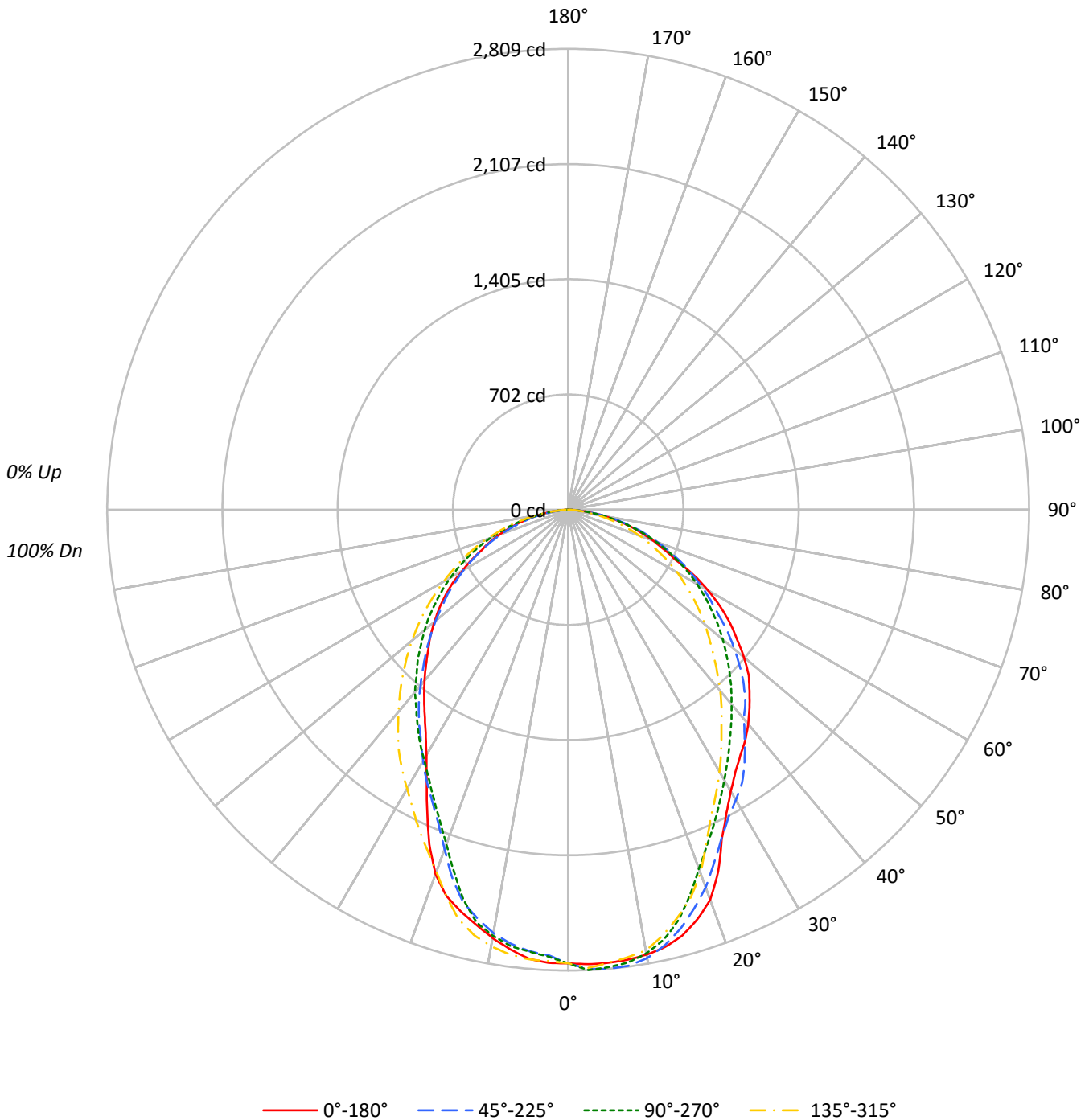
Input Watts (W): 68.6  
Input Voltage (V): 120.05  
Input Current (A<sub>in</sub>): 0.573  
Voltage Rise (V): NR  
Power Factor: 0.9989  
Total Harmonic Distortion (THDi): 7.16%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

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

	0°	90°	180°	270°
0°	11722	11722	11722	11722
5°	11746	11839	11640	11433
10°	11745	11669	11306	11206
15°	11627	11155	10960	10600
20°	11196	10232	10457	9529
25°	10109	9528	9279	8772
30°	9408	8935	8201	8249
35°	9125	8449	7603	7878
40°	9037	8072	7215	7567
45°	8891	7755	6864	7236
50°	8663	7456	6598	6923
55°	8269	7127	6277	6579
60°	7661	6811	5775	6232
65°	6472	6400	5230	5767
70°	5924	5843	4832	5193
75°	5259	5046	4180	4366
80°	4217	3889	3280	3149
85°	2599	2189	2055	1635



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.5	4.3
10°-20°	718.4	11.8
20°-30°	963.5	15.8
30°-40°	1062.8	17.4
40°-50°	1050.0	17.2
50°-60°	918.1	15.0
60°-70°	673.8	11.0
70°-80°	369.5	6.0
80°-90°	91.0	1.5
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°	1943.4	31.8
0°-40°	3006.2	49.2
0°-60°	4974.3	81.4
0°-90°	6108.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6108.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2765	2765	2765	2765	2765	
5°	2773	2800	2748	2704	2773	264
15°	2687	2592	2533	2463	2687	753
25°	2215	2107	2033	1940	2215	1027
35°	1829	1717	1524	1601	1829	1149
45°	1562	1389	1206	1296	1562	1205
55°	1204	1066	914	984	1204	1071
65°	719	739	581	666	719	736
75°	385	393	306	340	385	407
85°	86	83	68	62	86	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765
2.5°	2773	2781	2791	2802	2811	2817	2816	2806	2803	2802	2803
5°	2773	2781	2790	2797	2800	2801	2803	2807	2805	2809	2805
7.5°	2767	2775	2783	2792	2804	2808	2802	2791	2793	2804	2788
10°	2754	2761	2767	2772	2783	2787	2781	2772	2773	2775	2757
12.5°	2730	2734	2742	2743	2752	2756	2750	2740	2746	2719	2724
15°	2687	2693	2702	2707	2704	2710	2699	2681	2685	2644	2670
17.5°	2618	2629	2638	2642	2633	2638	2613	2596	2579	2550	2538
20°	2530	2533	2532	2535	2523	2524	2496	2479	2442	2449	2404
22.5°	2388	2386	2389	2389	2377	2382	2358	2356	2312	2325	2315
25°	2215	2216	2226	2236	2237	2259	2243	2253	2207	2211	2213
27.5°	2086	2085	2106	2122	2136	2156	2146	2164	2131	2113	2120
30°	1981	1982	2005	2033	2047	2066	2063	2080	2061	2043	2049
32.5°	1895	1905	1914	1940	1961	1985	1984	1998	1987	1973	1952
35°	1829	1836	1839	1858	1875	1894	1898	1903	1893	1874	1841
37.5°	1772	1774	1775	1777	1792	1809	1810	1805	1795	1767	1754
40°	1706	1709	1704	1695	1710	1705	1711	1700	1692	1664	1681
42.5°	1636	1636	1629	1624	1620	1618	1615	1601	1588	1597	1586
45°	1562	1556	1540	1547	1534	1527	1520	1507	1490	1514	1483
47.5°	1492	1485	1465	1461	1448	1443	1431	1408	1399	1421	1407
50°	1397	1396	1375	1369	1368	1356	1340	1312	1303	1322	1324
52.5°	1296	1295	1297	1283	1282	1270	1248	1219	1211	1226	1228
55°	1204	1201	1184	1195	1188	1174	1156	1128	1119	1120	1130
57.5°	1098	1100	1094	1098	1093	1079	1063	1038	1025	1029	1039
60°	987	990	978	989	992	987	971	946	935	940	950
62.5°	862	871	876	878	886	888	876	857	844	848	865
65°	719	730	747	762	777	784	779	764	755	759	776
67.5°	630	633	630	631	651	676	680	673	666	671	683
70°	548	551	550	545	539	560	578	577	575	581	592
72.5°	467	470	471	464	457	455	476	481	493	499	504
75°	385	388	389	382	384	375	372	384	403	409	416
77.5°	305	308	310	304	304	296	295	285	303	321	327
80°	225	228	231	227	227	220	221	209	212	235	242
82.5°	151	155	158	154	155	151	152	143	139	154	163
85°	86	89	92	89	92	89	91	85	82	84	92
87.5°	30	33	36	36	40	39	42	39	38	39	38
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765
2.5°	2802	2802	2813	2820	2830	2832	2822	2809	2802	2806	2818
5°	2797	2801	2815	2804	2793	2811	2820	2800	2781	2801	2826
7.5°	2790	2807	2782	2777	2805	2769	2794	2784	2749	2797	2766
10°	2777	2755	2763	2761	2746	2764	2737	2746	2727	2740	2730
12.5°	2715	2724	2700	2704	2692	2699	2692	2685	2660	2689	2678
15°	2632	2632	2635	2607	2607	2611	2596	2592	2590	2598	2608
17.5°	2547	2525	2507	2489	2481	2472	2467	2465	2467	2470	2484
20°	2400	2397	2380	2362	2352	2354	2333	2329	2329	2329	2337
22.5°	2300	2284	2270	2245	2234	2232	2216	2212	2206	2208	2210
25°	2202	2183	2177	2147	2136	2129	2113	2107	2101	2096	2098
27.5°	2115	2103	2086	2062	2043	2034	2013	2001	1993	1988	1985
30°	2026	2005	1987	1965	1948	1937	1917	1903	1897	1889	1887
32.5°	1935	1915	1901	1868	1856	1838	1817	1808	1803	1797	1793
35°	1843	1825	1809	1780	1759	1745	1733	1717	1708	1702	1698
37.5°	1754	1742	1718	1691	1675	1657	1651	1632	1622	1618	1608
40°	1665	1650	1636	1610	1593	1574	1558	1549	1540	1534	1526
42.5°	1570	1567	1551	1525	1508	1489	1477	1470	1459	1449	1440
45°	1487	1474	1466	1443	1429	1415	1399	1389	1382	1371	1360
47.5°	1395	1388	1381	1363	1349	1331	1316	1308	1300	1291	1276
50°	1305	1303	1296	1277	1264	1251	1235	1230	1220	1212	1195
52.5°	1222	1215	1209	1195	1184	1172	1155	1149	1142	1131	1115
55°	1130	1128	1127	1112	1102	1090	1075	1066	1061	1049	1034
57.5°	1040	1044	1040	1027	1019	1008	1002	987	980	967	950
60°	954	955	953	944	935	925	911	906	899	885	868
62.5°	865	867	867	860	850	841	837	823	816	800	787
65°	774	779	778	772	764	759	752	739	731	714	703
67.5°	689	689	691	685	678	671	665	655	647	630	619
70°	598	600	600	595	598	582	579	567	560	545	534
72.5°	508	511	509	514	508	495	491	480	474	460	448
75°	421	423	419	423	419	406	403	393	387	376	367
77.5°	333	334	332	334	329	318	317	308	302	293	286
80°	247	247	246	246	242	233	232	226	223	214	207
82.5°	166	167	166	165	163	155	155	149	148	141	140
85°	96	96	96	94	93	87	88	83	82	79	78
87.5°	41	42	43	41	40	36	37	35	35	34	34
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765
2.5°	2825	2827	2822	2816	2806	2796	2790	2783	2783	2787	2789
5°	2807	2780	2785	2806	2798	2773	2764	2759	2762	2770	2773
7.5°	2772	2794	2754	2753	2768	2753	2743	2732	2738	2750	2753
10°	2746	2726	2729	2723	2703	2727	2709	2682	2693	2709	2703
12.5°	2668	2688	2655	2673	2646	2659	2659	2633	2633	2654	2637
15°	2587	2588	2602	2577	2588	2574	2589	2561	2574	2592	2565
17.5°	2481	2465	2467	2480	2475	2480	2490	2484	2486	2507	2499
20°	2337	2341	2342	2325	2323	2356	2348	2365	2360	2392	2388
22.5°	2201	2190	2184	2183	2190	2199	2187	2209	2194	2227	2225
25°	2089	2084	2084	2072	2061	2058	2060	2060	2038	2059	2045
27.5°	1979	1973	1965	1953	1949	1951	1948	1933	1908	1918	1895
30°	1880	1872	1863	1861	1849	1844	1835	1811	1796	1795	1770
32.5°	1785	1775	1766	1751	1742	1734	1716	1698	1689	1680	1660
35°	1688	1683	1671	1659	1648	1628	1610	1596	1589	1576	1564
37.5°	1602	1589	1580	1564	1550	1536	1514	1500	1498	1490	1478
40°	1517	1501	1487	1471	1454	1442	1425	1412	1410	1402	1394
42.5°	1431	1416	1397	1381	1368	1343	1337	1328	1326	1317	1311
45°	1347	1330	1314	1292	1275	1253	1245	1244	1243	1236	1235
47.5°	1265	1247	1224	1209	1187	1166	1156	1158	1161	1158	1157
50°	1181	1164	1148	1122	1099	1088	1071	1078	1081	1079	1079
52.5°	1099	1086	1063	1037	1023	1006	994	994	1000	1003	1001
55°	1020	1000	982	956	940	925	916	914	927	927	924
57.5°	937	919	900	872	861	842	843	833	845	848	844
60°	854	839	819	794	783	770	762	756	765	767	761
62.5°	773	757	740	715	704	691	682	680	684	682	678
65°	690	675	660	634	622	611	601	605	605	598	591
67.5°	607	592	579	562	547	536	529	522	521	511	514
70°	524	509	496	483	473	462	452	442	440	437	443
72.5°	439	426	417	408	392	384	371	360	364	368	374
75°	358	348	343	333	322	308	298	298	298	301	306
77.5°	279	274	266	260	250	240	228	231	231	234	236
80°	206	202	193	192	183	170	168	172	171	173	174
82.5°	136	137	129	129	122	113	113	115	116	117	117
85°	77	76	73	73	69	67	67	69	69	69	69
87.5°	35	35	32	34	33	32	31	32	32	31	30
90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765
2.5°	2785	2783	2777	2765	2749	2737	2731	2730	2732	2726	2724
5°	2771	2768	2762	2748	2732	2720	2715	2713	2716	2707	2702
7.5°	2751	2739	2725	2703	2689	2680	2685	2690	2689	2678	2674
10°	2698	2687	2673	2651	2636	2628	2636	2648	2645	2626	2620
12.5°	2630	2615	2602	2591	2576	2568	2574	2593	2588	2566	2564
15°	2559	2550	2545	2533	2516	2503	2503	2518	2519	2488	2492
17.5°	2480	2481	2481	2469	2443	2426	2416	2426	2421	2380	2384
20°	2376	2384	2382	2363	2339	2316	2294	2292	2281	2240	2244
22.5°	2220	2230	2223	2209	2187	2162	2137	2138	2131	2099	2105
25°	2038	2048	2043	2033	2013	2007	1996	1999	2006	1979	1988
27.5°	1883	1885	1875	1865	1858	1863	1870	1877	1898	1874	1875
30°	1756	1751	1738	1727	1725	1739	1751	1762	1783	1765	1772
32.5°	1649	1644	1629	1615	1613	1627	1644	1656	1675	1674	1671
35°	1556	1547	1537	1524	1521	1529	1541	1557	1571	1578	1573
37.5°	1467	1461	1456	1442	1440	1443	1450	1464	1475	1484	1480
40°	1385	1382	1376	1362	1361	1363	1367	1377	1384	1391	1388
42.5°	1308	1305	1297	1282	1279	1286	1287	1296	1297	1300	1300
45°	1234	1229	1219	1206	1206	1212	1214	1217	1214	1207	1212
47.5°	1163	1155	1145	1139	1135	1139	1141	1137	1133	1134	1125
50°	1089	1077	1070	1064	1062	1060	1064	1059	1052	1050	1050
52.5°	1011	998	997	992	987	984	989	980	976	971	960
55°	932	921	921	914	910	905	908	899	895	896	882
57.5°	848	839	837	837	828	824	824	819	818	812	805
60°	761	761	752	744	746	746	741	737	739	731	726
62.5°	675	674	663	665	656	658	656	656	658	656	649
65°	589	593	586	581	579	578	572	572	576	579	574
67.5°	519	521	516	519	511	507	500	493	493	504	499
70°	448	450	451	447	438	437	433	424	419	422	421
72.5°	375	377	378	376	367	364	361	356	351	348	341
75°	306	306	308	306	298	296	295	291	289	283	272
77.5°	239	238	239	237	230	232	225	220	220	218	210
80°	175	174	176	175	168	168	164	159	159	158	152
82.5°	118	116	119	117	111	112	108	106	106	105	100
85°	69	67	69	68	63	63	65	60	60	60	57
87.5°	29	26	28	27	24	24	26	23	24	25	23
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765
2.5°	2722	2719	2715	2712	2715	2714	2715	2718	2722	2724	2727
5°	2700	2701	2700	2695	2692	2689	2696	2705	2707	2701	2704
7.5°	2673	2669	2661	2656	2657	2660	2662	2665	2681	2673	2683
10°	2631	2621	2614	2612	2609	2614	2621	2631	2633	2642	2637
12.5°	2570	2552	2559	2544	2555	2554	2557	2566	2568	2563	2577
15°	2488	2475	2468	2455	2454	2456	2453	2458	2462	2452	2463
17.5°	2360	2352	2330	2309	2314	2308	2305	2305	2313	2306	2314
20°	2209	2201	2188	2164	2167	2164	2160	2158	2169	2161	2169
22.5°	2080	2067	2059	2055	2043	2038	2033	2031	2040	2038	2048
25°	1978	1960	1949	1944	1932	1927	1928	1924	1932	1928	1940
27.5°	1879	1867	1852	1845	1836	1833	1829	1835	1833	1840	1841
30°	1775	1768	1757	1755	1745	1740	1742	1746	1745	1753	1757
32.5°	1676	1670	1665	1662	1657	1657	1656	1662	1665	1674	1681
35°	1577	1583	1576	1575	1574	1575	1578	1585	1587	1599	1601
37.5°	1483	1495	1485	1492	1495	1496	1494	1502	1508	1518	1521
40°	1396	1400	1399	1413	1410	1412	1416	1429	1435	1440	1452
42.5°	1305	1309	1314	1324	1331	1339	1344	1351	1355	1366	1367
45°	1218	1223	1223	1243	1255	1257	1261	1275	1281	1294	1296
47.5°	1135	1137	1152	1163	1173	1182	1191	1200	1202	1214	1216
50°	1046	1055	1059	1081	1097	1101	1109	1122	1131	1141	1142
52.5°	969	968	988	999	1014	1026	1037	1041	1048	1062	1066
55°	885	896	905	923	933	944	961	966	972	982	984
57.5°	811	810	834	842	859	862	879	887	894	904	908
60°	727	737	752	765	777	784	798	808	815	826	829
62.5°	654	655	671	690	701	708	718	726	734	743	747
65°	577	579	594	610	621	628	640	644	653	663	666
67.5°	502	505	520	531	542	550	559	565	573	584	586
70°	428	429	443	455	462	471	479	487	492	504	504
72.5°	353	359	373	381	385	391	403	409	413	425	422
75°	277	287	301	310	314	316	324	330	335	344	340
77.5°	210	227	231	237	243	251	247	253	259	265	260
80°	150	159	168	174	173	181	181	179	184	189	183
82.5°	97	100	105	110	112	120	114	117	116	123	121
85°	58	57	56	57	58	60	60	59	59	63	62
87.5°	24	24	23	22	22	24	24	24	23	24	23
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765	2765
2.5°	2726	2731	2733	2731	2732	2736	2741	2749	2754	2763	2769
5°	2713	2713	2710	2717	2728	2729	2734	2743	2751	2758	2759
7.5°	2684	2685	2695	2694	2700	2710	2715	2724	2733	2739	2745
10°	2651	2647	2654	2656	2663	2673	2692	2690	2702	2710	2717
12.5°	2579	2576	2588	2598	2608	2622	2638	2639	2655	2664	2677
15°	2470	2468	2489	2501	2512	2519	2545	2562	2583	2597	2613
17.5°	2326	2329	2347	2359	2381	2402	2431	2442	2469	2491	2515
20°	2180	2185	2210	2223	2244	2277	2304	2310	2348	2370	2393
22.5°	2058	2070	2094	2114	2140	2169	2191	2224	2244	2256	2276
25°	1956	1965	1990	2013	2036	2066	2098	2130	2150	2161	2174
27.5°	1860	1870	1896	1921	1950	1983	2012	2033	2052	2073	2084
30°	1769	1793	1809	1830	1854	1887	1918	1946	1963	1984	2000
32.5°	1691	1706	1721	1746	1777	1811	1839	1867	1882	1903	1909
35°	1614	1629	1647	1671	1688	1721	1751	1776	1799	1813	1818
37.5°	1532	1545	1564	1585	1617	1646	1655	1679	1703	1721	1728
40°	1463	1473	1488	1508	1528	1559	1572	1591	1607	1627	1637
42.5°	1380	1392	1410	1436	1454	1467	1482	1505	1517	1532	1546
45°	1310	1321	1334	1349	1370	1387	1387	1411	1424	1436	1454
47.5°	1230	1242	1259	1280	1287	1297	1303	1317	1335	1344	1362
50°	1157	1168	1182	1193	1204	1216	1215	1226	1242	1250	1270
52.5°	1077	1087	1102	1114	1117	1128	1124	1139	1151	1157	1185
55°	997	1009	1025	1030	1035	1042	1040	1051	1059	1064	1096
57.5°	917	932	945	946	948	955	954	964	966	976	1003
60°	837	852	862	864	867	867	865	876	876	889	911
62.5°	756	768	776	781	780	785	782	790	790	803	819
65°	675	689	693	696	698	696	697	705	705	713	732
67.5°	595	607	612	613	612	614	611	620	622	624	640
70°	512	524	527	529	529	528	530	533	535	537	546
72.5°	430	437	444	444	445	445	445	451	447	446	448
75°	347	354	360	361	359	361	362	369	364	357	348
77.5°	265	272	278	278	278	279	281	284	280	274	262
80°	188	192	198	200	199	201	210	206	199	189	192
82.5°	115	121	126	128	128	130	137	133	123	125	128
85°	58	63	66	68	68	70	76	69	68	71	73
87.5°	20	22	24	27	26	26	29	28	28	31	31
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P24517

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

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2765	2765	2765	2765	2765	2765	2765
2.5°	2768	2770	2769	2769	2768	2770	2773
5°	2758	2758	2762	2763	2764	2769	2773
7.5°	2747	2754	2756	2760	2757	2763	2767
10°	2723	2725	2734	2740	2744	2751	2754
12.5°	2683	2686	2701	2716	2720	2724	2730
15°	2621	2641	2661	2677	2680	2684	2687
17.5°	2527	2559	2588	2610	2611	2615	2618
20°	2421	2442	2475	2498	2504	2520	2530
22.5°	2297	2313	2334	2348	2357	2374	2388
25°	2189	2196	2198	2199	2206	2213	2215
27.5°	2094	2101	2089	2083	2085	2079	2086
30°	2007	2012	1994	1996	1989	1976	1981
32.5°	1919	1927	1910	1917	1902	1891	1895
35°	1831	1839	1834	1841	1827	1827	1829
37.5°	1740	1753	1757	1766	1761	1765	1772
40°	1653	1668	1683	1688	1696	1700	1706
42.5°	1564	1578	1595	1616	1620	1624	1636
45°	1478	1496	1508	1537	1536	1550	1562
47.5°	1389	1412	1429	1453	1457	1483	1492
50°	1295	1323	1347	1362	1379	1389	1397
52.5°	1202	1228	1253	1275	1281	1288	1296
55°	1106	1135	1156	1184	1183	1195	1204
57.5°	1014	1045	1066	1087	1083	1093	1098
60°	927	957	971	985	976	983	987
62.5°	837	861	878	875	856	860	862
65°	744	758	752	745	719	720	719
67.5°	644	644	634	619	616	626	630
70°	537	524	530	535	535	545	548
72.5°	430	434	448	452	455	465	467
75°	344	356	368	371	375	384	385
77.5°	271	279	291	292	303	304	305
80°	200	204	216	216	224	225	225
82.5°	133	137	141	145	153	153	151
85°	76	78	80	83	88	88	86
87.5°	31	34	33	29	32	31	30
90°	0	0	0	0	0	0	0

(END OF REPORT)