

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: P24520

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P24520
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/STD/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: 6878.1 lumens
Efficiency: N/A
Efficacy: 88.6 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

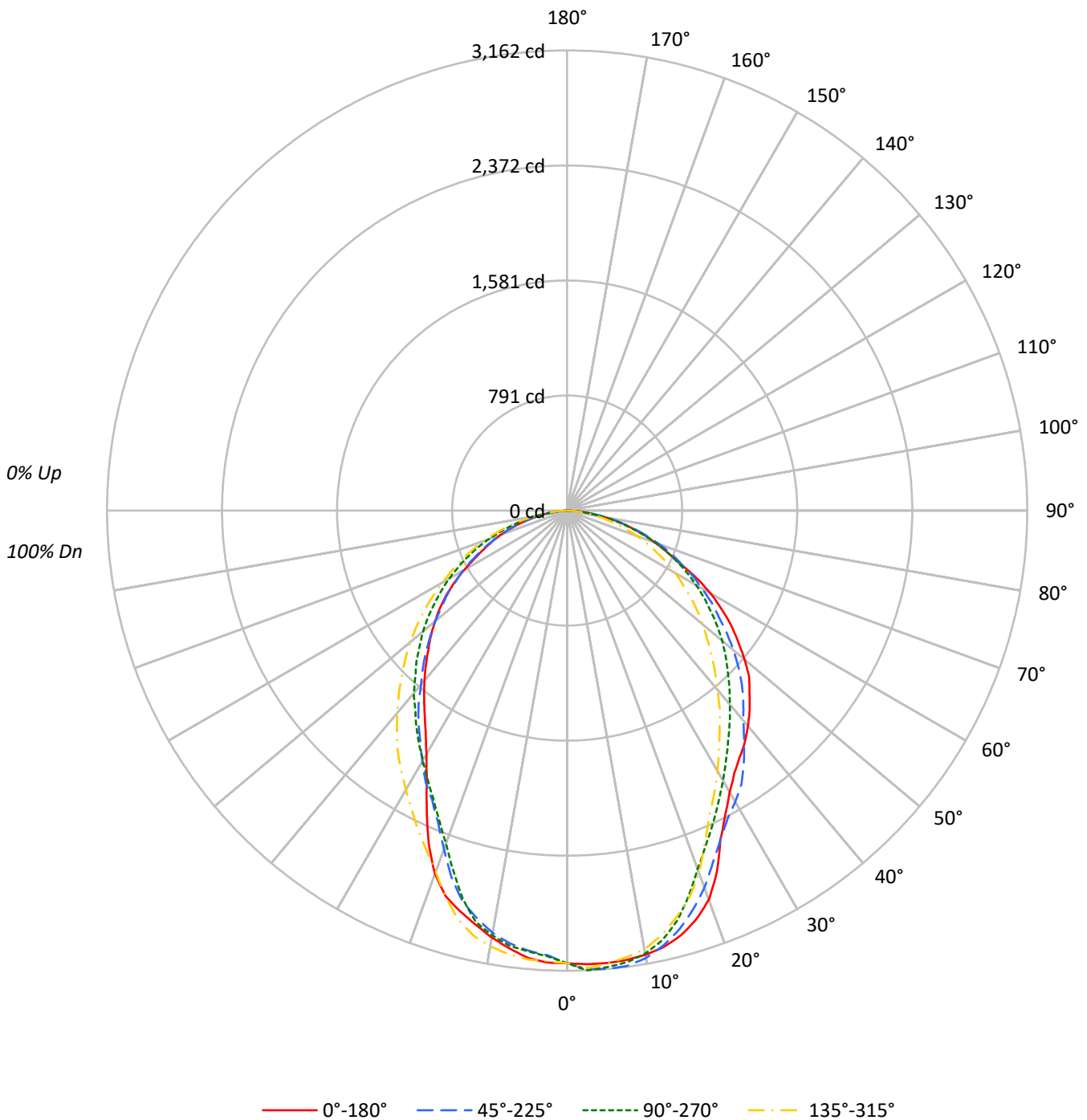
Input Watts (W): 77.6
Input Voltage (V): 120.02
Input Current (A_{in}): 0.648
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 6.81%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70	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	38	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	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	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13184	13184	13184	13184
5°	13220	13315	13067	12858
10°	13216	13131	12704	12591
15°	13076	12563	12328	11900
20°	12595	11515	11759	10693
25°	11383	10721	10411	9853
30°	10614	10052	9175	9305
35°	10317	9497	8511	8892
40°	10239	9062	8078	8541
45°	10086	8704	7672	8168
50°	9872	8426	7348	7832
55°	9457	8050	6964	7435
60°	8817	7690	6357	7044
65°	7597	7248	5698	6538
70°	6984	6626	5200	5894
75°	6229	5740	4453	5008
80°	5061	4439	3449	3665
85°	3203	2559	2055	1820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.1	4.3
10°-20°	808.2	11.7
20°-30°	1083.9	15.8
30°-40°	1195.6	17.4
40°-50°	1181.6	17.2
50°-60°	1033.6	15.0
60°-70°	759.5	11.0
70°-80°	418.0	6.1
80°-90°	103.6	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°	2186.1	31.8
0°-40°	3381.8	49.2
0°-60°	5597.0	81.4
0°-90°	6878.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6878.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3110	3110	3110	3110	3110	
5°	3121	3149	3085	3041	3121	297
15°	3022	2919	2849	2765	3022	848
25°	2494	2371	2281	2179	2494	1157
35°	2068	1930	1706	1807	2068	1300
45°	1772	1559	1348	1463	1772	1369
55°	1377	1204	1014	1112	1377	1225
65°	844	837	633	755	844	860
75°	456	447	326	390	456	482
85°	106	97	68	69	106	126
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°	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110
2.5°	3120	3133	3141	3154	3164	3169	3169	3164	3156	3153	3152
5°	3121	3130	3138	3146	3150	3153	3157	3155	3161	3162	3152
7.5°	3115	3127	3133	3144	3154	3157	3151	3140	3145	3156	3136
10°	3099	3107	3114	3122	3133	3138	3129	3116	3124	3122	3105
12.5°	3071	3079	3085	3090	3098	3105	3094	3081	3093	3060	3070
15°	3022	3033	3041	3048	3043	3054	3037	3010	3020	2980	3004
17.5°	2947	2965	2973	2976	2960	2965	2939	2911	2901	2875	2858
20°	2846	2854	2853	2855	2834	2836	2808	2779	2749	2757	2714
22.5°	2688	2694	2696	2694	2673	2681	2657	2644	2607	2617	2612
25°	2494	2506	2516	2525	2518	2546	2529	2533	2494	2493	2493
27.5°	2352	2361	2382	2400	2408	2433	2423	2436	2410	2387	2385
30°	2235	2247	2270	2300	2309	2333	2330	2345	2331	2310	2301
32.5°	2139	2151	2170	2196	2222	2242	2243	2252	2243	2229	2199
35°	2068	2076	2087	2103	2127	2141	2149	2148	2138	2116	2082
37.5°	2006	2008	2008	2013	2033	2044	2045	2039	2026	1996	1984
40°	1933	1935	1935	1920	1944	1940	1933	1923	1912	1882	1900
42.5°	1856	1855	1856	1841	1848	1830	1826	1811	1803	1792	1795
45°	1772	1767	1757	1754	1750	1729	1720	1704	1685	1699	1678
47.5°	1696	1688	1661	1659	1650	1635	1620	1593	1594	1599	1582
50°	1592	1588	1566	1555	1559	1538	1520	1487	1488	1491	1489
52.5°	1480	1474	1468	1459	1464	1443	1416	1389	1384	1382	1388
55°	1377	1370	1352	1361	1361	1336	1312	1286	1279	1270	1277
57.5°	1257	1259	1243	1251	1253	1230	1210	1185	1173	1177	1172
60°	1136	1136	1124	1128	1140	1126	1107	1081	1072	1066	1072
62.5°	1001	1007	997	1009	1023	1016	1000	980	969	974	977
65°	844	854	856	881	903	901	891	876	867	862	877
67.5°	741	742	731	737	768	780	780	773	768	774	772
70°	646	647	637	638	638	654	665	665	664	670	669
72.5°	552	553	545	553	542	534	551	556	562	569	569
75°	456	455	448	457	448	440	434	447	459	468	470
77.5°	362	360	356	366	356	350	343	336	355	369	369
80°	270	268	264	273	266	261	257	248	253	272	274
82.5°	184	181	180	187	183	180	176	171	167	180	185
85°	106	104	110	111	109	108	105	102	100	101	105
87.5°	39	39	46	48	48	49	48	48	47	47	44
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°	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110
2.5°	3152	3155	3163	3173	3186	3187	3175	3162	3156	3161	3174
5°	3145	3155	3169	3154	3144	3164	3174	3149	3129	3156	3177
7.5°	3136	3160	3133	3125	3156	3117	3146	3131	3097	3148	3106
10°	3128	3100	3103	3107	3093	3110	3081	3090	3068	3082	3068
12.5°	3053	3059	3038	3047	3034	3037	3030	3024	2991	3025	3013
15°	2969	2959	2958	2942	2937	2937	2921	2919	2909	2923	2928
17.5°	2869	2834	2818	2809	2796	2796	2778	2777	2768	2780	2783
20°	2706	2694	2674	2665	2651	2647	2626	2621	2611	2622	2619
22.5°	2583	2568	2552	2533	2520	2514	2495	2490	2475	2485	2477
25°	2478	2458	2446	2423	2409	2396	2378	2371	2356	2360	2352
27.5°	2379	2365	2347	2327	2304	2290	2267	2253	2236	2237	2225
30°	2281	2257	2235	2220	2197	2182	2158	2141	2127	2125	2116
32.5°	2179	2155	2137	2109	2094	2071	2046	2031	2019	2020	2010
35°	2077	2056	2043	2011	1984	1968	1944	1930	1924	1914	1905
37.5°	1978	1963	1940	1911	1888	1869	1851	1835	1828	1818	1802
40°	1877	1860	1848	1817	1796	1774	1755	1739	1734	1722	1710
42.5°	1770	1767	1751	1724	1700	1679	1664	1650	1643	1628	1614
45°	1678	1661	1655	1632	1611	1595	1576	1559	1556	1540	1524
47.5°	1575	1563	1559	1540	1522	1502	1482	1476	1465	1449	1430
50°	1474	1470	1465	1445	1428	1413	1391	1390	1375	1361	1340
52.5°	1381	1369	1366	1353	1338	1323	1309	1299	1286	1271	1249
55°	1278	1271	1273	1258	1244	1230	1218	1204	1195	1179	1158
57.5°	1179	1174	1175	1163	1153	1140	1126	1115	1103	1088	1065
60°	1082	1076	1077	1068	1058	1046	1032	1023	1011	995	973
62.5°	980	976	980	973	963	952	939	930	917	900	883
65°	880	886	881	875	866	858	844	837	823	804	788
67.5°	781	785	782	777	769	759	746	741	728	709	693
70°	679	684	681	676	669	660	648	643	630	615	599
72.5°	576	584	577	574	568	560	549	545	535	520	502
75°	476	482	476	473	467	459	451	447	438	426	409
77.5°	386	382	376	373	367	359	353	351	343	334	327
80°	287	284	278	274	270	263	259	258	255	246	238
82.5°	195	193	188	183	181	175	172	171	171	162	162
85°	114	112	109	104	103	98	96	97	95	92	91
87.5°	50	50	48	45	44	41	40	41	41	41	41
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°	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110
2.5°	3179	3177	3171	3165	3155	3147	3138	3133	3131	3134	3137
5°	3154	3127	3138	3154	3145	3125	3108	3104	3105	3112	3115
7.5°	3121	3138	3090	3098	3112	3096	3083	3072	3075	3086	3090
10°	3088	3065	3068	3062	3043	3061	3046	3016	3022	3038	3036
12.5°	3002	3023	2980	3005	2978	2989	2988	2962	2958	2979	2965
15°	2911	2911	2919	2902	2911	2895	2910	2879	2892	2910	2886
17.5°	2794	2778	2767	2792	2789	2789	2802	2791	2797	2816	2792
20°	2631	2635	2623	2622	2624	2649	2646	2657	2658	2688	2666
22.5°	2479	2463	2445	2461	2469	2471	2468	2481	2477	2508	2481
25°	2351	2343	2335	2331	2320	2313	2319	2308	2297	2312	2278
27.5°	2228	2217	2210	2198	2196	2190	2189	2165	2146	2149	2108
30°	2115	2101	2095	2091	2080	2067	2057	2025	2017	2012	1970
32.5°	2009	1990	1984	1968	1959	1941	1921	1898	1896	1883	1848
35°	1901	1887	1879	1864	1845	1826	1802	1782	1781	1765	1743
37.5°	1804	1780	1774	1756	1734	1723	1694	1673	1676	1662	1645
40°	1707	1681	1669	1649	1625	1605	1592	1572	1576	1563	1550
42.5°	1611	1585	1570	1548	1530	1504	1492	1478	1482	1467	1458
45°	1516	1487	1473	1448	1424	1403	1390	1385	1387	1375	1373
47.5°	1422	1394	1375	1356	1327	1304	1291	1290	1296	1288	1284
50°	1330	1300	1289	1258	1228	1215	1196	1202	1208	1199	1197
52.5°	1236	1214	1193	1165	1141	1125	1109	1107	1116	1114	1109
55°	1146	1117	1101	1074	1049	1034	1020	1017	1030	1026	1019
57.5°	1052	1025	1008	980	962	939	937	925	936	938	935
60°	957	935	916	893	874	859	846	837	845	845	839
62.5°	866	843	829	805	785	769	757	751	754	749	744
65°	774	752	739	716	694	679	668	668	665	652	645
67.5°	680	659	650	623	610	596	588	574	570	555	560
70°	587	566	557	537	528	513	502	485	479	473	483
72.5°	493	474	468	454	437	426	410	392	395	398	407
75°	400	386	387	370	359	340	327	317	323	325	333
77.5°	313	304	303	289	278	265	251	254	252	252	258
80°	232	223	220	215	203	187	184	189	187	185	190
82.5°	152	150	150	144	134	125	123	127	127	124	128
85°	87	84	86	81	75	74	73	76	76	73	75
87.5°	39	38	38	37	36	35	34	36	35	31	32
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°	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110
2.5°	3132	3134	3124	3109	3093	3080	3073	3075	3073	3070	3067
5°	3112	3106	3098	3085	3065	3056	3051	3052	3051	3045	3039
7.5°	3087	3063	3050	3035	3008	3009	3017	3020	3023	3013	3009
10°	3028	3007	2995	2979	2954	2953	2965	2970	2970	2952	2947
12.5°	2958	2944	2921	2913	2901	2889	2897	2905	2910	2884	2886
15°	2880	2869	2864	2849	2830	2815	2815	2821	2835	2799	2806
17.5°	2790	2790	2789	2777	2750	2731	2720	2715	2728	2680	2689
20°	2673	2682	2674	2657	2636	2608	2582	2564	2578	2524	2531
22.5°	2498	2511	2492	2483	2469	2435	2405	2387	2406	2361	2368
25°	2290	2303	2283	2281	2272	2255	2243	2231	2260	2224	2233
27.5°	2113	2115	2091	2088	2092	2089	2096	2092	2126	2103	2106
30°	1969	1961	1935	1932	1939	1945	1963	1963	1996	1979	1988
32.5°	1846	1838	1814	1809	1811	1815	1841	1845	1874	1861	1870
35°	1739	1728	1712	1706	1707	1705	1725	1734	1759	1755	1758
37.5°	1638	1632	1621	1615	1618	1619	1620	1638	1649	1649	1651
40°	1545	1542	1531	1525	1520	1518	1527	1531	1547	1545	1547
42.5°	1459	1459	1443	1436	1438	1442	1437	1443	1449	1444	1447
45°	1374	1372	1356	1348	1353	1359	1353	1352	1354	1347	1349
47.5°	1292	1289	1272	1269	1271	1277	1271	1260	1264	1258	1251
50°	1209	1201	1188	1185	1185	1188	1186	1174	1172	1163	1168
52.5°	1120	1111	1103	1102	1098	1099	1100	1085	1086	1075	1076
55°	1030	1020	1015	1014	1009	1005	1006	993	995	988	978
57.5°	932	924	927	915	915	912	908	910	908	900	901
60°	833	833	822	819	821	823	813	809	820	817	811
62.5°	734	735	730	717	717	724	716	726	727	725	726
65°	638	644	642	633	631	633	621	630	636	638	642
67.5°	562	567	566	558	556	556	543	541	539	552	556
70°	485	488	488	481	478	479	470	467	458	459	470
72.5°	406	410	410	403	400	401	392	392	383	377	380
75°	332	334	333	326	325	326	321	322	315	306	302
77.5°	259	261	260	252	252	256	246	239	241	237	234
80°	189	191	185	184	184	186	179	174	173	171	170
82.5°	127	129	124	122	122	124	119	115	115	114	112
85°	74	74	70	68	69	71	67	65	65	65	65
87.5°	29	29	30	29	26	27	25	24	26	26	27
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°	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110
2.5°	3064	3059	3054	3053	3053	3054	3057	3059	3064	3065	3066
5°	3038	3036	3038	3035	3029	3026	3035	3044	3047	3038	3041
7.5°	3006	3000	2995	2992	2990	2992	2997	2999	3015	3006	3017
10°	2958	2947	2941	2944	2934	2939	2951	2964	2960	2973	2963
12.5°	2889	2868	2878	2869	2871	2871	2881	2890	2884	2885	2896
15°	2798	2779	2776	2773	2755	2758	2769	2771	2762	2763	2765
17.5°	2655	2642	2617	2612	2599	2609	2606	2602	2596	2601	2598
20°	2481	2474	2458	2445	2431	2444	2440	2433	2432	2435	2434
22.5°	2330	2319	2315	2308	2304	2300	2294	2290	2290	2296	2299
25°	2214	2194	2187	2181	2166	2173	2175	2170	2169	2172	2179
27.5°	2104	2105	2078	2070	2068	2066	2061	2057	2058	2062	2078
30°	1989	1990	1972	1968	1964	1960	1963	1959	1957	1964	1982
32.5°	1875	1878	1868	1863	1863	1865	1865	1864	1869	1875	1895
35°	1762	1780	1769	1767	1768	1774	1778	1780	1784	1798	1807
37.5°	1665	1678	1666	1672	1680	1685	1682	1684	1692	1706	1715
40°	1554	1560	1568	1584	1583	1590	1593	1603	1612	1627	1639
42.5°	1452	1468	1471	1482	1494	1508	1515	1516	1521	1533	1543
45°	1354	1371	1368	1391	1408	1415	1420	1430	1439	1454	1463
47.5°	1264	1274	1281	1299	1314	1331	1343	1346	1348	1363	1373
50°	1163	1183	1184	1207	1230	1240	1251	1260	1269	1282	1292
52.5°	1088	1086	1096	1113	1135	1156	1161	1167	1174	1193	1204
55°	981	1006	1002	1028	1043	1061	1076	1083	1097	1101	1112
57.5°	900	908	924	936	962	969	985	996	1009	1015	1025
60°	803	829	834	849	868	882	894	907	919	926	937
62.5°	721	735	742	765	783	796	804	815	828	833	845
65°	636	651	656	675	695	706	716	724	737	745	755
67.5°	552	567	573	587	605	620	626	633	647	655	665
70°	468	483	487	503	516	532	537	546	555	566	572
72.5°	393	404	416	420	430	441	451	459	468	476	481
75°	301	323	336	340	349	358	362	369	378	386	390
77.5°	236	249	256	259	271	278	278	289	294	296	299
80°	168	174	186	189	192	200	203	206	210	210	213
82.5°	110	110	115	118	124	131	128	136	132	137	135
85°	63	62	62	61	64	67	68	69	68	69	69
87.5°	26	26	25	23	24	26	27	28	26	26	25
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°	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110
2.5°	3067	3073	3076	3074	3076	3077	3084	3091	3100	3105	3115
5°	3050	3052	3049	3056	3069	3069	3075	3086	3096	3104	3105
7.5°	3018	3019	3032	3028	3038	3046	3052	3066	3075	3083	3088
10°	2980	2977	2982	2984	2996	3007	3027	3032	3039	3051	3058
12.5°	2894	2896	2906	2920	2933	2950	2965	2979	2989	3000	3012
15°	2769	2776	2788	2810	2824	2833	2857	2892	2905	2925	2939
17.5°	2606	2619	2631	2651	2676	2705	2726	2758	2778	2806	2829
20°	2444	2458	2478	2500	2524	2564	2587	2612	2642	2672	2692
22.5°	2309	2330	2350	2377	2409	2444	2464	2504	2526	2543	2562
25°	2194	2212	2234	2264	2292	2328	2359	2398	2421	2438	2451
27.5°	2087	2116	2129	2161	2194	2236	2265	2292	2314	2341	2351
30°	1985	2009	2030	2057	2087	2129	2159	2196	2214	2241	2257
32.5°	1898	1922	1932	1962	2001	2042	2073	2106	2120	2150	2156
35°	1811	1837	1852	1878	1901	1942	1974	2006	2028	2050	2054
37.5°	1726	1741	1758	1781	1821	1856	1868	1898	1922	1947	1953
40°	1641	1660	1673	1694	1720	1760	1774	1800	1814	1842	1852
42.5°	1547	1570	1585	1612	1640	1655	1673	1703	1713	1737	1749
45°	1468	1490	1500	1515	1543	1566	1567	1597	1606	1630	1646
47.5°	1386	1402	1414	1438	1450	1465	1474	1491	1508	1527	1544
50°	1298	1320	1328	1340	1357	1374	1374	1390	1405	1421	1440
52.5°	1216	1227	1244	1250	1259	1276	1272	1291	1303	1317	1338
55°	1116	1141	1159	1155	1167	1180	1179	1191	1199	1212	1237
57.5°	1038	1055	1069	1061	1069	1083	1083	1093	1093	1111	1132
60°	938	956	973	968	976	985	983	993	990	1013	1030
62.5°	857	862	876	876	879	892	889	895	893	915	926
65°	766	783	783	780	787	793	794	799	798	815	828
67.5°	675	689	691	686	690	700	696	703	704	715	725
70°	582	597	596	592	596	603	605	605	606	617	620
72.5°	491	497	502	505	501	510	508	511	516	515	521
75°	396	402	407	411	407	414	413	418	421	416	409
77.5°	305	308	313	319	315	322	320	322	327	313	310
80°	219	218	224	228	226	234	231	233	234	217	222
82.5°	136	138	143	147	145	153	156	151	147	144	148
85°	70	71	74	79	78	84	86	79	82	82	84
87.5°	25	25	28	31	30	34	33	32	35	35	35
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3110	3110	3110	3110	3110	3110	3110
2.5°	3116	3112	3114	3114	3113	3117	3120
5°	3103	3103	3107	3109	3110	3115	3121
7.5°	3092	3098	3102	3106	3103	3111	3115
10°	3065	3065	3076	3086	3089	3096	3099
12.5°	3020	3022	3039	3054	3060	3065	3071
15°	2957	2969	2994	3007	3012	3019	3022
17.5°	2853	2880	2912	2926	2934	2943	2947
20°	2720	2750	2786	2792	2813	2834	2846
22.5°	2583	2608	2629	2629	2650	2672	2688
25°	2465	2477	2479	2470	2483	2494	2494
27.5°	2360	2374	2358	2347	2351	2347	2352
30°	2265	2276	2252	2251	2243	2235	2235
32.5°	2168	2183	2157	2160	2148	2140	2139
35°	2071	2078	2075	2075	2065	2068	2068
37.5°	1970	1983	1988	1991	1992	2001	2006
40°	1871	1887	1914	1908	1920	1930	1933
42.5°	1772	1786	1818	1828	1835	1847	1856
45°	1675	1693	1719	1737	1741	1763	1772
47.5°	1575	1606	1625	1641	1654	1683	1696
50°	1472	1511	1538	1543	1567	1575	1592
52.5°	1367	1404	1435	1447	1458	1461	1480
55°	1260	1296	1325	1342	1349	1360	1377
57.5°	1157	1195	1223	1230	1240	1245	1257
60°	1058	1095	1118	1117	1121	1124	1136
62.5°	958	989	1004	996	987	990	1001
65°	855	875	879	852	840	836	844
67.5°	742	749	735	716	723	730	741
70°	623	614	619	619	629	637	646
72.5°	505	511	523	533	536	542	552
75°	405	419	430	431	441	446	456
77.5°	317	330	340	348	349	352	362
80°	234	243	252	258	259	260	270
82.5°	156	163	171	176	175	183	184
85°	89	94	99	103	101	106	106
87.5°	36	38	39	39	37	40	39
90°	0	0	0	0	0	0	0

(END OF REPORT)