

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: P27392

Luminaire Tested: **MPBL-4-LD4-UNV-2HI/2HI-40**

Test Date: 01/27/16

Test Information

Test Method: LM-79-08
Report Number: P27392
Test Lab: INNOVATION CENTER-P2
Test Date: 01/27/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MPBL-4-LD4-UNV-2HI/2HI-40
Description: FAILSAFE MPBL LED PATIENT BED LIGHT
Light Source: (336) 4000K NICHIA LEDS
2UT217042A8404A
Ballast/Driver: (4) OSRAM ELECTRONIC DRIVERS
OT50W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15174.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.19 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.42' x H: 0.29')
CIE Type: General Diffuse

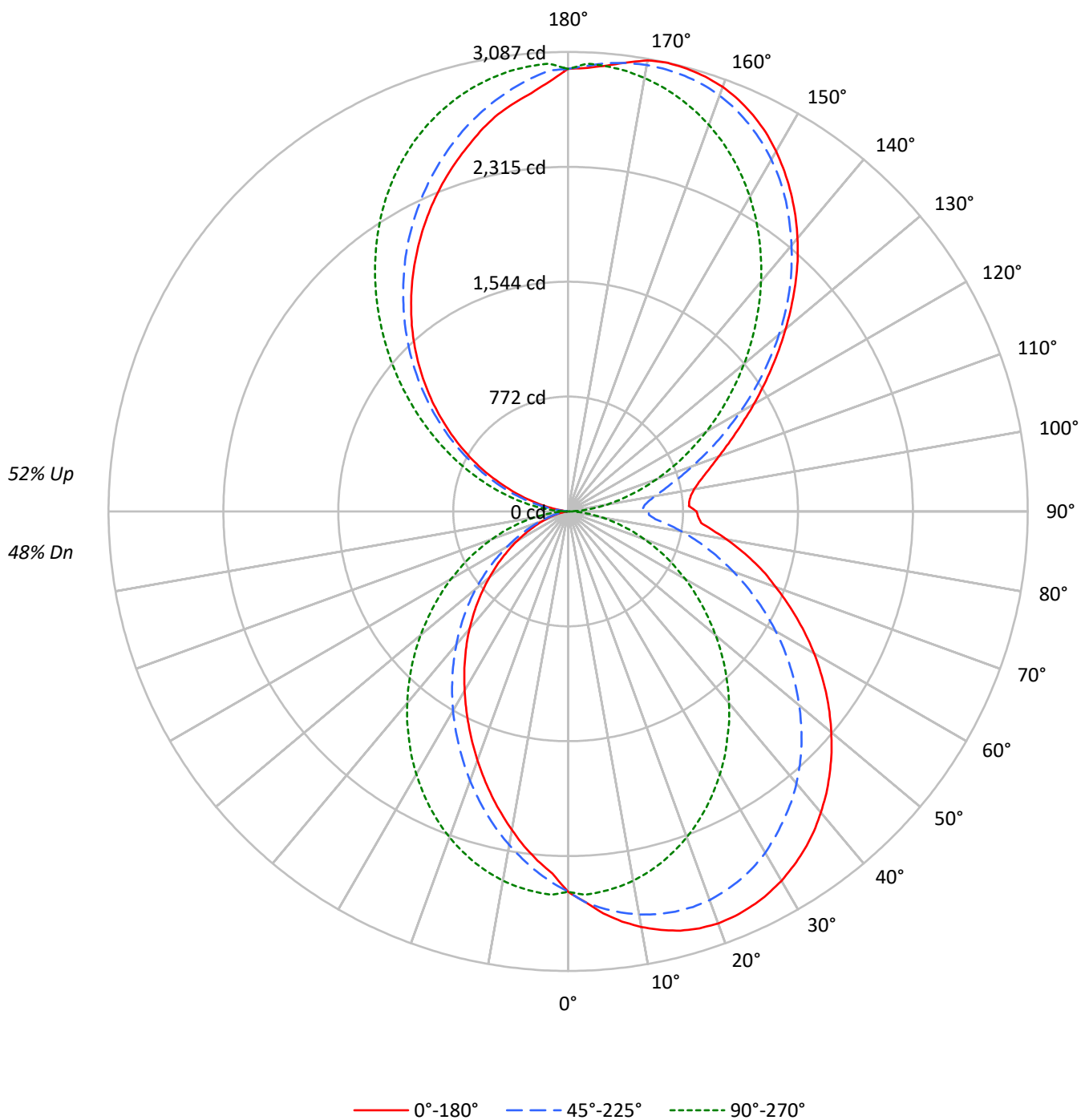
Input Watts (W): 176.7
Input Voltage (V): 120.07
Input Current (Ain): 1.5026
Voltage Rise (V): NR
Power Factor: 0.9994
Total Harmonic Distortion (THDi): 7.80%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	92	88	84	89	85	81	78	71	68	66	58	56	55	47	45	44
2	88	80	74	68	80	74	68	63	62	58	54	51	48	45	41	39	37
3	80	70	63	57	73	65	58	53	54	49	45	45	41	38	36	33	31
4	73	62	54	48	67	57	50	45	48	43	39	40	36	33	32	29	27
5	67	55	47	41	61	51	44	38	43	37	33	36	31	28	29	26	23
6	62	49	41	35	56	46	38	33	39	33	29	32	28	25	26	23	20
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	24	21	18
8	53	40	33	27	48	38	31	26	32	26	22	27	22	19	22	19	16
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15
10	46	34	27	22	42	31	25	20	27	22	18	23	19	16	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16501	16501	16501
5°	16561	16524	14380
10°	16549	16310	12685
15°	16418	15995	11142
20°	16131	15600	9750
25°	15709	15127	8494
30°	15216	14584	7382
35°	14656	13975	6386
40°	14027	13355	5470
45°	13356	12675	4604
50°	12637	11953	3774
55°	11903	11187	3018
60°	11139	10413	2306
65°	10356	9581	1662
70°	9580	8605	1111
75°	8869	7395	663
80°	8082	5946	284
85°	7385	4163	115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.6
10°-20°	687.1	4.5
20°-30°	1023.8	6.7
30°-40°	1207.5	8.0
40°-50°	1225.7	8.1
50°-60°	1092.2	7.2
60°-70°	852.0	5.6
70°-80°	571.7	3.8
80°-90°	335.2	2.2
90°-100°	300.9	2.0
100°-110°	538.0	3.5
110°-120°	870.1	5.7
120°-130°	1181.7	7.8
130°-140°	1380.0	9.1
140°-150°	1392.3	9.2
150°-160°	1192.4	7.9
160°-170°	800.8	5.3
170°-180°	281.2	1.9
0°-30°	1952.4	12.9
0°-40°	3159.9	20.8
0°-60°	5477.8	36.1
0°-90°	7236.8	47.7
90°-120°	1708.9	11.3
90°-150°	5662.9	37.3
90°-180°	7937.0	52.3
0°-180°	15174.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2555	2555	2555	2555	2555	
5°	2711	2677	2565	2428	2354	262
15°	2916	2783	2439	2107	1979	825
25°	2924	2731	2195	1736	1581	1349
35°	2770	2527	1863	1355	1207	1733
45°	2486	2216	1489	986	857	1918
55°	2114	1822	1097	635	536	1891
65°	1695	1394	725	328	272	1680
75°	1284	972	377	115	96	1357
85°	897	587	103	14	14	777
90°	862	540	6	20	28	467
95°	817	517	108	0	0	677
105°	948	717	436	287	219	1009
115°	1240	1099	847	652	594	1235
125°	1663	1587	1303	1064	1003	1492
135°	2159	2103	1781	1499	1426	1664
145°	2610	2549	2238	1926	1832	1631
155°	2938	2872	2617	2326	2214	1353
165°	3080	3029	2877	2668	2556	870
175°	3007	3023	3002	2918	2821	289
180°	2973	2973	2973	2973	2973	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2555	2555	2555	2555	2555	2555	2555	2555	2555	2555	2555
2.5°	2626	2624	2625	2630	2630	2634	2634	2632	2635	2635	2627
5°	2711	2709	2705	2704	2698	2700	2698	2693	2694	2689	2677
7.5°	2779	2778	2773	2769	2761	2760	2757	2748	2744	2735	2718
10°	2835	2831	2826	2820	2811	2809	2804	2794	2785	2771	2749
12.5°	2879	2878	2873	2865	2855	2848	2843	2829	2817	2800	2772
15°	2916	2913	2908	2901	2889	2881	2873	2856	2838	2816	2783
17.5°	2936	2934	2930	2921	2908	2899	2890	2871	2849	2823	2786
20°	2945	2943	2936	2926	2911	2902	2892	2871	2846	2818	2778
22.5°	2941	2938	2932	2920	2903	2891	2881	2858	2831	2801	2759
25°	2924	2921	2916	2905	2887	2876	2864	2839	2809	2776	2731
27.5°	2900	2897	2891	2879	2861	2850	2838	2812	2780	2743	2695
30°	2865	2861	2855	2844	2825	2812	2800	2769	2737	2699	2648
32.5°	2821	2820	2811	2800	2779	2769	2753	2720	2683	2646	2589
35°	2770	2768	2759	2745	2725	2715	2698	2665	2625	2582	2527
37.5°	2710	2711	2699	2684	2663	2653	2635	2600	2560	2518	2461
40°	2641	2643	2630	2614	2593	2583	2564	2528	2486	2443	2386
42.5°	2567	2568	2554	2538	2517	2507	2487	2449	2407	2362	2304
45°	2486	2487	2474	2457	2434	2425	2405	2367	2322	2276	2216
47.5°	2399	2400	2386	2370	2345	2336	2315	2278	2232	2184	2123
50°	2307	2308	2295	2278	2252	2242	2222	2184	2138	2083	2026
52.5°	2212	2213	2201	2183	2155	2145	2124	2083	2035	1987	1925
55°	2114	2114	2103	2084	2055	2046	2023	1983	1934	1884	1822
57.5°	2011	2013	2000	1980	1952	1942	1920	1883	1834	1779	1717
60°	1908	1909	1896	1875	1847	1838	1815	1777	1727	1673	1610
62.5°	1801	1803	1790	1770	1745	1730	1707	1665	1615	1564	1502
65°	1695	1697	1684	1663	1632	1623	1599	1558	1508	1456	1394
67.5°	1589	1591	1577	1556	1531	1515	1493	1450	1400	1354	1286
70°	1483	1481	1471	1450	1425	1409	1387	1344	1293	1244	1180
72.5°	1389	1377	1366	1349	1320	1302	1282	1238	1188	1140	1075
75°	1284	1275	1261	1245	1213	1198	1179	1133	1083	1038	972
77.5°	1181	1171	1158	1142	1113	1095	1075	1030	981	935	871
80°	1080	1069	1057	1040	1012	994	974	929	886	835	774
82.5°	981	972	959	942	914	896	876	831	793	738	678
85°	897	891	878	855	823	806	786	740	700	648	587
87.5°	875	869	855	833	802	783	763	716	665	607	544
90°	862	857	843	821	790	771	752	706	655	599	540
92.5°	812	807	794	773	744	726	708	664	615	561	503
95°	817	812	799	778	749	733	714	672	624	572	517
97.5°	832	826	814	794	767	751	733	693	649	599	547
100°	859	854	842	823	798	784	766	729	687	641	592
102.5°	898	893	882	863	841	828	811	776	737	694	648
105°	948	942	932	915	894	883	867	834	798	758	717
107.5°	1007	1001	992	976	957	944	931	902	871	834	799
110°	1074	1069	1057	1047	1029	1017	1006	981	954	922	889



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1153	1147	1136	1128	1112	1105	1092	1070	1047	1017	988
115°	1240	1235	1225	1218	1204	1196	1186	1168	1149	1128	1099
117.5°	1335	1330	1322	1315	1303	1295	1288	1274	1258	1240	1211
120°	1439	1434	1426	1421	1410	1404	1398	1387	1374	1357	1333
122.5°	1548	1544	1537	1532	1523	1519	1514	1506	1495	1480	1459
125°	1663	1660	1653	1649	1642	1638	1635	1629	1621	1609	1587
127.5°	1784	1781	1774	1771	1765	1762	1761	1759	1751	1739	1718
130°	1907	1904	1898	1897	1894	1891	1891	1889	1881	1868	1849
132.5°	2032	2032	2025	2024	2021	2018	2019	2016	2007	1990	1977
135°	2159	2158	2151	2149	2147	2142	2145	2141	2132	2116	2103
137.5°	2281	2280	2272	2271	2268	2264	2265	2262	2252	2236	2221
140°	2397	2397	2389	2387	2384	2381	2382	2376	2365	2351	2334
142.5°	2507	2507	2500	2497	2495	2490	2491	2485	2474	2461	2443
145°	2610	2610	2603	2600	2597	2594	2595	2589	2580	2567	2549
147.5°	2705	2704	2698	2696	2694	2691	2693	2686	2672	2663	2645
150°	2794	2792	2787	2783	2780	2778	2777	2769	2757	2746	2730
152.5°	2873	2870	2863	2858	2854	2851	2850	2842	2832	2820	2806
155°	2938	2935	2929	2925	2922	2920	2918	2909	2901	2887	2872
157.5°	2993	2990	2986	2983	2981	2979	2977	2967	2959	2944	2929
160°	3036	3032	3027	3023	3020	3019	3017	3007	3002	2988	2974
162.5°	3063	3059	3053	3049	3046	3046	3044	3036	3033	3021	3008
165°	3080	3076	3071	3068	3066	3066	3064	3056	3053	3043	3029
167.5°	3087	3083	3079	3075	3072	3072	3069	3062	3061	3054	3042
170°	3077	3072	3068	3063	3061	3062	3061	3058	3058	3055	3046
172.5°	3042	3039	3038	3039	3043	3046	3046	3045	3048	3047	3039
175°	3007	3005	3009	3013	3017	3021	3022	3023	3027	3030	3023
177.5°	2982	2980	2977	2978	2980	2984	2986	2990	2996	3001	2997
180°	2973	2973	2973	2973	2973	2973	2973	2973	2973	2973	2973



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2555	2555	2555	2555	2555	2555	2555	2555	2555	2555	2555
2.5°	2605	2596	2591	2586	2583	2583	2581	2581	2583	2578	2564
5°	2650	2635	2623	2611	2605	2601	2592	2585	2579	2565	2545
7.5°	2685	2664	2646	2627	2618	2611	2594	2580	2567	2546	2518
10°	2711	2684	2660	2635	2622	2610	2588	2567	2546	2519	2483
12.5°	2730	2696	2665	2633	2617	2602	2573	2545	2517	2483	2440
15°	2737	2698	2661	2623	2604	2585	2549	2515	2479	2439	2390
17.5°	2735	2690	2646	2604	2582	2559	2518	2477	2435	2387	2334
20°	2725	2674	2624	2575	2551	2526	2478	2431	2384	2330	2272
22.5°	2703	2647	2594	2539	2512	2484	2430	2378	2325	2265	2202
25°	2673	2612	2555	2495	2466	2435	2377	2319	2260	2195	2128
27.5°	2635	2569	2507	2442	2411	2378	2315	2253	2189	2119	2049
30°	2587	2516	2453	2383	2350	2314	2244	2177	2112	2038	1964
32.5°	2530	2458	2391	2317	2282	2245	2170	2099	2029	1956	1876
35°	2466	2394	2320	2245	2208	2169	2091	2017	1943	1863	1785
37.5°	2396	2323	2249	2168	2130	2088	2008	1931	1853	1776	1692
40°	2319	2245	2169	2086	2046	2004	1920	1840	1760	1681	1597
42.5°	2236	2162	2085	2004	1959	1916	1829	1748	1666	1586	1502
45°	2147	2075	1992	1909	1868	1824	1737	1654	1570	1489	1406
47.5°	2054	1983	1899	1818	1773	1728	1641	1558	1471	1391	1309
50°	1957	1886	1803	1721	1675	1631	1544	1460	1372	1293	1212
52.5°	1856	1787	1705	1621	1575	1532	1442	1358	1273	1194	1115
55°	1753	1680	1603	1519	1474	1431	1343	1260	1175	1097	1021
57.5°	1648	1580	1498	1416	1371	1329	1247	1159	1077	1002	932
60°	1542	1474	1393	1312	1269	1227	1147	1061	981	908	835
62.5°	1434	1368	1294	1208	1165	1119	1043	963	885	813	747
65°	1327	1258	1189	1105	1063	1019	945	867	791	725	659
67.5°	1226	1157	1085	1004	963	919	847	772	702	633	574
70°	1116	1052	982	903	863	821	751	683	609	547	485
72.5°	1018	949	881	806	764	725	659	587	526	461	402
75°	917	848	781	710	669	628	567	498	437	377	322
77.5°	816	749	684	615	581	541	480	412	360	298	247
80°	718	654	593	525	489	454	395	332	280	226	180
82.5°	625	563	501	437	406	369	313	258	210	160	119
85°	537	474	417	358	323	291	239	188	145	103	65
87.5°	482	413	344	284	252	227	177	127	88	49	20
90°	476	410	343	277	246	214	152	96	42	6	6
92.5°	442	381	319	259	229	201	148	98	62	38	22
95°	460	402	345	289	262	238	192	150	126	108	95
97.5°	495	441	388	335	311	289	251	219	200	182	166
100°	544	495	443	396	374	357	321	298	281	261	244
102.5°	601	557	513	472	452	437	407	387	368	345	327
105°	677	635	596	558	541	527	502	480	460	436	415
107.5°	762	724	689	658	639	627	603	581	552	532	508
110°	857	823	791	759	745	734	710	685	654	632	606



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	960	929	901	871	857	846	820	794	760	735	707
115°	1071	1044	1018	993	983	967	934	907	869	847	812
117.5°	1188	1165	1140	1114	1099	1080	1046	1022	981	956	920
120°	1312	1290	1265	1237	1223	1202	1172	1140	1097	1070	1032
122.5°	1440	1418	1392	1362	1348	1331	1288	1260	1214	1186	1146
125°	1570	1548	1519	1487	1471	1456	1412	1382	1334	1303	1263
127.5°	1701	1677	1645	1612	1593	1573	1536	1498	1455	1422	1380
130°	1831	1805	1771	1735	1718	1697	1661	1622	1578	1543	1500
132.5°	1960	1932	1896	1852	1839	1820	1783	1743	1700	1662	1619
135°	2087	2056	2018	1977	1958	1940	1905	1870	1821	1781	1737
137.5°	2204	2172	2134	2086	2074	2057	2024	1983	1947	1900	1854
140°	2315	2282	2244	2199	2189	2171	2140	2099	2064	2016	1970
142.5°	2424	2389	2350	2308	2297	2281	2250	2210	2171	2128	2083
145°	2527	2491	2450	2411	2400	2386	2356	2317	2285	2238	2193
147.5°	2619	2583	2543	2508	2499	2485	2457	2419	2389	2342	2298
150°	2703	2670	2631	2599	2591	2578	2550	2515	2486	2441	2398
152.5°	2777	2746	2708	2680	2672	2661	2635	2603	2575	2533	2491
155°	2841	2812	2776	2751	2746	2736	2712	2682	2657	2617	2577
157.5°	2898	2870	2838	2816	2812	2804	2781	2755	2732	2695	2657
160°	2946	2918	2889	2870	2867	2860	2840	2817	2797	2764	2729
162.5°	2980	2955	2930	2914	2912	2907	2889	2870	2853	2824	2793
165°	3005	2983	2963	2953	2951	2948	2932	2917	2904	2877	2849
167.5°	3020	3001	2986	2979	2979	2978	2967	2957	2944	2922	2898
170°	3026	3011	3000	2996	2998	2998	2991	2983	2976	2957	2938
172.5°	3021	3009	3003	3003	3006	3009	3006	3002	2998	2985	2969
175°	3009	3000	2997	3002	3006	3011	3011	3011	3013	3002	2992
177.5°	2986	2980	2981	2990	2995	3003	3007	3011	3017	3011	3005
180°	2973	2973	2973	2973	2973	2973	2973	2973	2973	2973	2973



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2555	2555	2555	2555	2555	2555	2555	2555	2555	2555	2555
2.5°	2546	2528	2516	2512	2508	2504	2494	2490	2495	2495	2487
5°	2519	2496	2476	2470	2463	2453	2437	2428	2428	2423	2410
7.5°	2486	2456	2430	2421	2411	2393	2374	2360	2354	2345	2328
10°	2444	2408	2376	2365	2351	2328	2304	2285	2276	2263	2242
12.5°	2397	2353	2316	2302	2286	2257	2229	2207	2194	2177	2153
15°	2341	2291	2250	2233	2215	2181	2149	2125	2107	2087	2060
17.5°	2279	2224	2179	2160	2140	2101	2065	2038	2017	1996	1967
20°	2212	2151	2103	2080	2059	2017	1978	1946	1925	1902	1871
22.5°	2137	2073	2021	1997	1975	1929	1887	1852	1831	1805	1772
25°	2060	1992	1937	1911	1888	1839	1796	1764	1736	1709	1677
27.5°	1973	1907	1848	1821	1798	1747	1702	1670	1641	1614	1587
30°	1886	1818	1758	1730	1706	1654	1609	1571	1546	1519	1488
32.5°	1797	1728	1665	1637	1612	1556	1516	1482	1450	1422	1393
35°	1706	1636	1572	1543	1519	1464	1423	1387	1355	1327	1300
37.5°	1613	1543	1479	1450	1426	1370	1331	1295	1261	1234	1208
40°	1517	1449	1386	1357	1332	1277	1238	1202	1168	1142	1116
42.5°	1423	1355	1293	1265	1240	1185	1146	1110	1077	1051	1026
45°	1330	1263	1201	1173	1148	1094	1056	1019	986	962	937
47.5°	1235	1171	1108	1081	1056	1004	966	928	897	872	844
50°	1141	1074	1017	989	964	909	877	839	808	784	758
52.5°	1048	984	925	902	873	821	785	751	721	696	673
55°	957	893	834	807	783	734	698	664	635	612	592
57.5°	864	801	744	722	694	646	616	580	552	531	512
60°	772	712	656	635	608	561	533	499	473	454	438
62.5°	686	627	569	550	524	480	449	421	397	381	368
65°	596	539	488	469	444	401	374	349	328	315	304
67.5°	510	455	407	388	365	327	304	282	265	254	245
70°	427	377	330	313	293	259	240	222	207	199	191
72.5°	348	299	258	242	227	198	182	169	157	150	146
75°	273	228	194	180	165	144	132	124	115	111	108
77.5°	203	164	136	126	116	99	92	87	83	78	75
80°	140	108	88	81	74	64	60	56	53	49	47
82.5°	85	63	51	48	44	38	36	32	30	27	25
85°	41	30	24	22	20	17	16	15	14	14	14
87.5°	12	9	9	8	9	10	11	14	16	18	19
90°	8	10	12	13	14	15	17	18	20	20	20
92.5°	6	0	0	0	0	0	0	0	0	0	0
95°	78	68	52	46	35	19	8	0	0	0	0
97.5°	148	138	122	114	107	91	77	65	54	39	30
100°	224	213	197	187	181	165	154	140	129	115	103
102.5°	305	292	275	261	259	242	227	218	206	192	181
105°	392	378	358	343	340	324	309	298	287	272	262
107.5°	482	463	446	431	427	410	395	384	374	357	347
110°	578	562	539	528	519	502	485	474	463	447	437



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	677	660	636	623	614	596	579	567	555	539	529
115°	781	763	737	727	714	695	678	665	652	636	626
117.5°	886	862	841	829	818	797	779	766	749	736	726
120°	995	975	948	937	924	902	883	869	853	839	829
122.5°	1106	1078	1058	1047	1032	1010	989	975	959	944	933
125°	1220	1190	1168	1155	1143	1120	1098	1082	1064	1050	1040
127.5°	1335	1301	1278	1266	1254	1229	1207	1191	1171	1157	1146
130°	1453	1409	1390	1377	1366	1341	1318	1302	1281	1265	1253
132.5°	1570	1524	1503	1489	1478	1453	1429	1412	1390	1373	1360
135°	1687	1645	1616	1600	1590	1566	1541	1523	1499	1481	1468
137.5°	1804	1754	1728	1711	1699	1676	1652	1633	1607	1588	1574
140°	1920	1873	1839	1821	1809	1784	1759	1739	1714	1693	1679
142.5°	2032	1979	1950	1930	1917	1891	1865	1845	1819	1798	1782
145°	2142	2089	2058	2038	2024	1997	1971	1947	1926	1903	1886
147.5°	2248	2195	2162	2142	2127	2100	2075	2051	2031	2009	1990
150°	2349	2298	2263	2244	2228	2201	2175	2158	2133	2110	2090
152.5°	2443	2393	2359	2341	2325	2297	2272	2250	2230	2208	2185
155°	2532	2483	2449	2433	2417	2390	2365	2343	2326	2303	2280
157.5°	2614	2568	2535	2519	2504	2478	2454	2434	2418	2398	2375
160°	2690	2646	2614	2599	2585	2560	2538	2519	2505	2486	2463
162.5°	2756	2716	2686	2673	2660	2638	2617	2599	2588	2570	2546
165°	2816	2782	2751	2741	2729	2709	2691	2676	2668	2652	2627
167.5°	2869	2838	2811	2801	2791	2774	2758	2745	2739	2726	2702
170°	2912	2885	2862	2855	2846	2832	2819	2809	2805	2794	2770
172.5°	2949	2925	2906	2900	2893	2883	2872	2866	2865	2857	2834
175°	2976	2957	2942	2938	2934	2927	2919	2916	2918	2914	2895
177.5°	2993	2979	2968	2966	2964	2960	2957	2958	2964	2963	2945
180°	2973	2973	2973	2973	2973	2973	2973	2973	2973	2973	2973



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2555	2555	2555	2555	2555	2555	2555	2555
2.5°	2476	2474	2467	2467	2456	2444	2436	2434
5°	2395	2390	2381	2380	2370	2360	2355	2354
7.5°	2310	2303	2294	2293	2283	2273	2267	2268
10°	2222	2214	2202	2200	2188	2176	2172	2173
12.5°	2130	2119	2107	2105	2091	2080	2077	2077
15°	2037	2022	2013	2012	1997	1985	1981	1979
17.5°	1943	1928	1918	1916	1905	1886	1882	1879
20°	1845	1830	1823	1812	1805	1786	1779	1780
22.5°	1750	1729	1722	1713	1705	1686	1679	1680
25°	1650	1633	1626	1616	1608	1588	1581	1581
27.5°	1555	1538	1530	1520	1512	1492	1484	1484
30°	1460	1442	1434	1425	1417	1398	1391	1390
32.5°	1366	1348	1340	1332	1321	1307	1299	1298
35°	1274	1255	1248	1240	1231	1218	1209	1207
37.5°	1182	1164	1157	1154	1141	1128	1124	1119
40°	1090	1074	1067	1064	1050	1043	1035	1030
42.5°	1000	985	979	976	962	955	947	943
45°	912	897	891	888	876	865	861	857
47.5°	826	810	804	801	790	780	775	772
50°	739	724	719	716	703	698	692	689
52.5°	658	642	637	635	624	620	614	611
55°	578	568	559	557	548	544	538	536
57.5°	501	492	484	482	473	470	465	464
60°	428	421	414	411	404	402	397	395
62.5°	360	353	346	344	338	336	332	330
65°	297	290	285	284	279	277	273	272
67.5°	239	233	228	227	223	222	219	218
70°	186	183	179	179	176	175	174	172
72.5°	143	140	138	138	136	136	135	133
75°	106	104	102	101	99	99	99	96
77.5°	73	71	69	68	68	67	66	64
80°	46	44	42	42	42	40	40	38
82.5°	24	23	22	22	22	21	20	19
85°	14	14	14	14	14	15	15	14
87.5°	20	21	22	22	23	23	24	26
90°	20	22	22	23	24	25	27	28
92.5°	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0
97.5°	21	17	16	13	10	8	5	5
100°	95	86	83	79	72	68	64	61
102.5°	169	164	161	157	150	146	141	138
105°	255	245	243	238	232	228	221	219
107.5°	336	330	329	323	318	315	312	306
110°	425	419	418	412	403	404	397	395



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	518	512	510	506	501	498	495	487
115°	614	609	606	603	593	596	593	594
117.5°	713	709	703	702	693	695	693	693
120°	815	810	805	804	800	797	795	796
122.5°	919	914	910	908	899	901	898	899
125°	1025	1019	1013	1013	1005	1007	1004	1003
127.5°	1131	1125	1118	1120	1110	1112	1110	1109
130°	1239	1232	1225	1226	1218	1219	1216	1216
132.5°	1345	1338	1331	1332	1323	1325	1317	1321
135°	1451	1445	1436	1438	1429	1430	1422	1426
137.5°	1557	1550	1541	1543	1535	1535	1526	1530
140°	1662	1655	1647	1648	1640	1639	1629	1633
142.5°	1764	1757	1749	1750	1742	1740	1731	1732
145°	1869	1859	1851	1852	1842	1840	1830	1832
147.5°	1971	1960	1952	1952	1942	1939	1929	1930
150°	2070	2059	2052	2051	2041	2038	2026	2026
152.5°	2162	2151	2144	2144	2135	2133	2122	2122
155°	2257	2245	2238	2238	2229	2226	2214	2214
157.5°	2352	2340	2334	2333	2324	2319	2305	2304
160°	2440	2428	2423	2421	2413	2408	2393	2392
162.5°	2521	2510	2504	2503	2495	2490	2476	2475
165°	2602	2590	2585	2584	2576	2571	2557	2556
167.5°	2679	2667	2664	2663	2655	2651	2637	2637
170°	2748	2739	2736	2736	2730	2725	2711	2710
172.5°	2814	2805	2803	2802	2794	2787	2771	2768
175°	2876	2868	2867	2865	2856	2845	2824	2821
177.5°	2929	2922	2921	2922	2916	2908	2891	2890
180°	2973	2973	2973	2973	2973	2973	2973	2973

(END OF REPORT)