

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: PORTFOLIO

Report Number: P684535

Luminaire Tested: **LX6C70D010 EX6C709035 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C70D010 EX6C709035 6LBLWWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

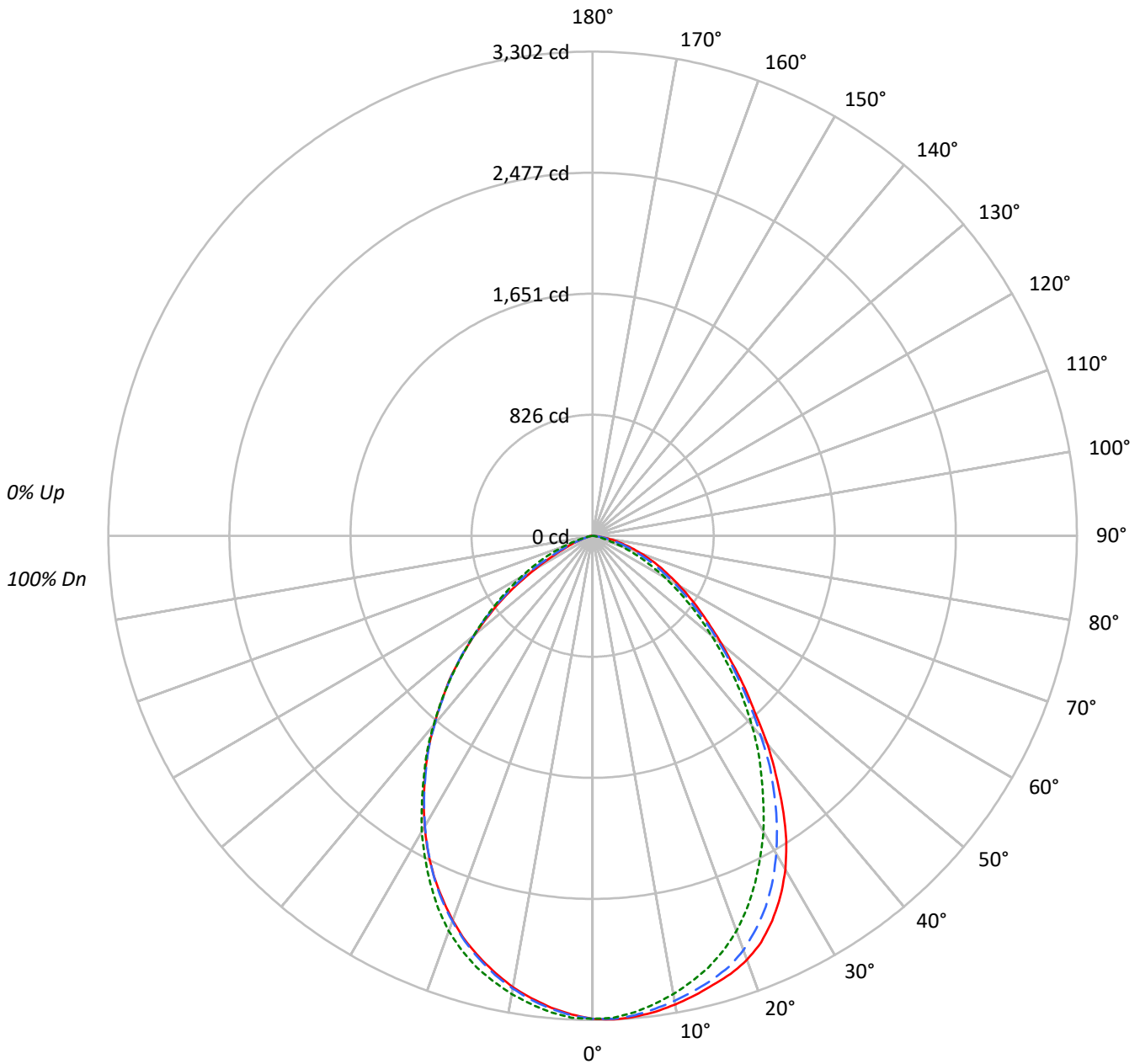
Lumens per Lamp: N/A
Luminaire Lumens: 5992.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
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	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	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	180589	180589	180589
5°	181218	179573	177806
10°	180664	176656	174067
15°	179984	173009	168985
20°	179583	167309	162852
25°	175214	158332	154848
30°	166469	147472	145022
35°	151099	134274	133384
40°	132570	120841	120211
45°	113655	105592	106445
50°	97830	89993	89524
55°	85512	75983	71328
60°	75147	62276	48680
65°	65779	48254	29303
70°	56083	32473	17214
75°	45264	16881	9383
80°	31475	6630	5241
85°	12517	2076	2768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	5.2
10°-20°	861.9	14.4
20°-30°	1226.6	20.5
30°-40°	1291.0	21.5
40°-50°	1075.9	18.0
50°-60°	726.9	12.1
60°-70°	368.5	6.2
70°-80°	119.0	2.0
80°-90°	13.7	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°	2397.2	40.0
0°-40°	3688.1	61.6
0°-60°	5490.9	91.6
0°-90°	5992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5992.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3294	3294	3294	3294	3294	
5°	3293	3283	3263	3239	3231	313
15°	3171	3137	3048	2988	2978	896
25°	2897	2792	2618	2563	2560	1328
35°	2258	2160	2006	1986	1993	1405
45°	1466	1428	1362	1368	1373	1135
55°	895	852	795	771	746	805
65°	507	457	372	269	226	505
75°	214	167	80	43	44	231
85°	20	11	3	4	4	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2
2.5°	3301.9	3301.9	3301.9	3301.9	3301.9	3301.9	3300.8	3300.8	3298.6	3298.6	3297.5
5°	3293.1	3294.2	3294.2	3293.1	3293.1	3290.9	3290.9	3289.7	3286.4	3284.2	3283.1
7.5°	3274.2	3274.2	3273.1	3272.0	3270.9	3267.6	3266.5	3263.2	3261.0	3258.7	3254.3
10°	3245.5	3245.5	3244.3	3242.1	3241.0	3238.8	3238.8	3234.4	3230.0	3224.4	3221.1
12.5°	3211.1	3212.2	3210.0	3208.9	3205.6	3204.5	3202.3	3196.7	3193.4	3186.8	3181.2
15°	3171.3	3173.5	3173.5	3169.1	3165.7	3164.6	3161.3	3158.0	3150.2	3143.6	3136.9
17.5°	3132.5	3134.7	3132.5	3129.2	3125.9	3121.4	3119.2	3112.6	3102.6	3093.8	3083.8
20°	3078.3	3081.6	3077.1	3071.6	3065.0	3063.9	3060.5	3049.5	3035.1	3021.8	3007.4
22.5°	3001.9	2999.6	2996.3	2994.1	2983.0	2976.4	2972.0	2957.6	2942.1	2924.3	2906.6
25°	2896.7	2901.1	2894.4	2884.5	2878.9	2872.3	2861.2	2845.7	2831.3	2812.5	2791.5
27.5°	2772.6	2772.6	2763.8	2760.5	2748.3	2739.4	2733.9	2718.4	2699.6	2680.7	2657.5
30°	2629.8	2623.2	2623.2	2607.7	2597.7	2594.4	2588.8	2563.4	2546.8	2526.8	2503.6
32.5°	2457.1	2456.0	2451.5	2441.6	2428.3	2417.2	2417.2	2399.5	2377.3	2353.0	2338.6
35°	2257.8	2258.9	2256.6	2245.6	2245.6	2232.3	2230.1	2214.6	2196.9	2178.0	2160.3
37.5°	2051.8	2056.2	2051.8	2046.3	2042.9	2041.8	2031.9	2020.8	2007.5	1996.4	1983.1
40°	1852.5	1845.8	1848.1	1837.0	1838.1	1835.9	1831.5	1817.1	1809.3	1798.2	1783.8
42.5°	1637.7	1644.3	1646.5	1639.9	1637.7	1633.2	1637.7	1632.1	1623.3	1617.7	1604.5
45°	1466.0	1459.4	1462.7	1460.5	1461.6	1452.8	1449.4	1447.2	1443.9	1433.9	1428.4
47.5°	1295.5	1296.6	1295.5	1291.1	1288.9	1288.9	1284.5	1277.8	1277.8	1271.2	1266.7
50°	1147.1	1147.1	1149.4	1143.8	1141.6	1137.2	1138.3	1131.6	1127.2	1121.7	1118.4
52.5°	1011.0	1012.1	1007.6	1008.7	1006.5	1006.5	1002.1	997.7	993.2	983.3	981.1
55°	894.7	895.8	890.3	892.5	885.8	882.5	880.3	873.6	873.6	863.7	851.5
57.5°	786.2	785.1	784.0	780.6	776.2	772.9	769.6	761.8	758.5	751.8	741.9
60°	685.4	684.3	682.1	681.0	677.7	669.9	669.9	664.4	653.3	646.7	636.7
62.5°	590.2	590.2	589.1	585.8	582.4	579.1	576.9	572.5	561.4	553.6	544.8
65°	507.1	506.0	502.7	497.2	495.0	495.0	487.2	483.9	475.0	467.3	457.3
67.5°	427.4	423.0	420.8	421.9	415.2	415.2	408.6	403.1	395.3	382.0	374.3
70°	349.9	347.7	345.5	343.3	342.2	337.7	334.4	327.8	320.0	310.0	297.9
72.5°	280.1	280.1	276.8	274.6	271.3	266.9	264.6	259.1	250.2	239.2	230.3
75°	213.7	213.7	213.7	209.3	207.1	204.8	198.2	194.9	184.9	178.3	167.2
77.5°	157.2	155.0	151.7	150.6	148.4	146.2	142.8	137.3	128.4	120.7	114.1
80°	99.7	103.0	99.7	99.7	94.1	91.9	90.8	84.2	80.8	74.2	68.7
82.5°	55.4	56.5	54.3	53.1	49.8	48.7	48.7	44.3	42.1	37.6	34.3
85°	19.9	21.0	19.9	19.9	17.7	18.8	17.7	16.6	14.4	12.2	11.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2
2.5°	3297.5	3295.3	3295.3	3294.2	3293.1	3293.1	3293.1	3292.0	3289.7	3289.7	3288.6
5°	3280.9	3278.7	3275.4	3273.1	3272.0	3270.9	3269.8	3268.7	3264.3	3263.2	3259.9
7.5°	3251.0	3248.8	3243.2	3241.0	3237.7	3236.6	3232.2	3230.0	3225.5	3221.1	3218.9
10°	3215.6	3210.0	3205.6	3200.1	3197.8	3194.5	3189.0	3182.3	3179.0	3173.5	3169.1
12.5°	3175.7	3169.1	3160.2	3153.6	3151.3	3145.8	3136.9	3131.4	3123.7	3114.8	3107.0
15°	3125.9	3118.1	3110.4	3098.2	3094.9	3088.2	3079.4	3068.3	3057.2	3048.4	3039.5
17.5°	3071.6	3059.4	3047.3	3034.0	3024.0	3020.7	3006.3	2990.8	2980.8	2965.3	2955.3
20°	2995.2	2978.6	2958.7	2945.4	2936.5	2926.6	2909.9	2893.3	2881.2	2867.9	2853.5
22.5°	2890.0	2874.5	2851.3	2831.3	2824.7	2810.3	2795.9	2780.4	2764.9	2750.5	2732.8
25°	2766.0	2749.4	2726.1	2706.2	2695.1	2688.5	2660.8	2645.3	2629.8	2617.6	2605.4
27.5°	2638.7	2608.8	2593.3	2562.3	2552.3	2550.1	2524.6	2508.0	2491.4	2474.8	2459.3
30°	2481.4	2458.2	2434.9	2412.8	2399.5	2391.7	2372.9	2351.9	2340.8	2329.7	2314.2
32.5°	2318.7	2297.6	2268.8	2247.8	2237.8	2226.8	2210.1	2195.7	2179.1	2167.0	2163.6
35°	2144.8	2121.6	2097.2	2081.7	2079.5	2066.2	2049.6	2037.4	2025.2	2006.4	2003.1
37.5°	1958.8	1945.5	1928.9	1906.7	1896.8	1896.8	1880.2	1871.3	1855.8	1854.7	1845.8
40°	1776.1	1770.6	1745.1	1738.4	1736.2	1720.7	1716.3	1700.8	1689.7	1688.6	1675.3
42.5°	1595.6	1581.2	1576.8	1565.7	1555.7	1553.5	1543.6	1536.9	1532.5	1525.8	1519.2
45°	1416.2	1412.9	1401.8	1394.1	1390.8	1386.3	1383.0	1369.7	1367.5	1362.0	1358.6
47.5°	1261.2	1252.3	1242.4	1233.5	1232.4	1225.8	1218.0	1218.0	1205.8	1204.7	1202.5
50°	1107.3	1100.6	1095.1	1082.9	1085.1	1076.3	1075.2	1065.2	1059.7	1055.2	1060.8
52.5°	972.2	958.9	956.7	946.7	943.4	944.5	932.3	929.0	926.8	922.4	920.2
55°	843.8	837.1	828.2	821.6	816.1	810.5	806.1	806.1	793.9	795.0	789.5
57.5°	730.8	725.3	714.2	704.2	702.0	695.4	689.8	684.3	683.2	675.4	669.9
60°	630.0	620.1	605.7	601.3	594.6	589.1	583.5	576.9	573.6	568.0	558.1
62.5°	535.9	519.3	513.8	504.9	497.2	493.8	485.0	477.2	471.7	464.0	456.2
65°	446.2	434.1	424.1	414.1	413.0	404.2	396.4	389.8	378.7	372.0	357.7
67.5°	364.3	353.2	342.2	332.2	324.4	322.2	310.0	302.3	294.5	281.3	269.1
70°	289.0	277.9	269.1	256.9	253.6	244.7	235.9	228.1	214.8	202.6	192.7
72.5°	220.3	208.2	198.2	189.3	183.8	176.1	167.2	158.3	145.1	132.9	124.0
75°	157.2	148.4	138.4	129.6	125.1	120.7	110.7	100.8	91.9	79.7	72.0
77.5°	106.3	97.4	88.6	80.8	75.3	72.0	65.3	57.6	49.8	43.2	37.6
80°	62.0	56.5	49.8	43.2	42.1	38.8	33.2	28.8	24.4	21.0	16.6
82.5°	29.9	26.6	22.1	18.8	16.6	15.5	13.3	11.1	8.9	7.8	7.8
85°	8.9	7.8	6.6	5.5	4.4	4.4	3.3	3.3	3.3	3.3	3.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2
2.5°	3285.3	3284.2	3283.1	3282.0	3279.8	3279.8	3276.5	3274.2	3274.2	3272.0	3270.9
5°	3256.5	3253.2	3252.1	3249.9	3247.7	3246.6	3242.1	3241.0	3238.8	3236.6	3236.6
7.5°	3215.6	3211.1	3206.7	3204.5	3203.4	3200.1	3197.8	3196.7	3193.4	3191.2	3186.8
10°	3161.3	3158.0	3152.4	3150.2	3148.0	3145.8	3140.3	3136.9	3135.8	3133.6	3131.4
12.5°	3098.2	3093.8	3088.2	3083.8	3081.6	3078.3	3072.7	3069.4	3069.4	3065.0	3065.0
15°	3030.6	3024.0	3014.0	3009.6	3008.5	3001.9	2997.4	2993.0	2987.5	2985.2	2985.2
17.5°	2944.3	2933.2	2924.3	2924.3	2919.9	2913.3	2906.6	2903.3	2900.0	2895.6	2893.3
20°	2842.4	2834.7	2824.7	2824.7	2814.7	2812.5	2805.9	2804.8	2797.0	2798.1	2794.8
22.5°	2719.5	2715.1	2709.5	2705.1	2699.6	2692.9	2689.6	2690.7	2687.4	2686.3	2685.2
25°	2595.5	2583.3	2576.7	2574.4	2572.2	2566.7	2564.5	2563.4	2563.4	2560.0	2561.2
27.5°	2452.6	2443.8	2434.9	2438.2	2433.8	2430.5	2428.3	2425.0	2427.2	2426.1	2427.2
30°	2306.5	2295.4	2289.9	2292.1	2291.0	2282.1	2286.5	2285.4	2286.5	2286.5	2288.8
32.5°	2152.6	2144.8	2143.7	2144.8	2134.8	2136.0	2131.5	2138.2	2139.3	2145.9	2140.4
35°	1996.4	1992.0	1984.3	1983.1	1984.3	1983.1	1983.1	1987.6	1986.5	1993.1	1990.9
37.5°	1835.9	1833.7	1825.9	1828.1	1823.7	1831.5	1833.7	1831.5	1839.2	1837.0	1835.9
40°	1678.6	1675.3	1670.9	1679.8	1674.2	1669.8	1677.5	1670.9	1673.1	1679.8	1679.8
42.5°	1519.2	1513.7	1513.7	1513.7	1512.6	1512.6	1515.9	1519.2	1517.0	1518.1	1526.9
45°	1358.6	1357.5	1354.2	1356.4	1355.3	1360.9	1360.9	1363.1	1367.5	1371.9	1369.7
47.5°	1203.6	1201.4	1204.7	1202.5	1203.6	1200.3	1202.5	1209.2	1214.7	1206.9	1214.7
50°	1058.6	1054.1	1053.0	1056.4	1055.2	1054.1	1056.4	1056.4	1054.1	1054.1	1061.9
52.5°	920.2	915.7	912.4	917.9	914.6	915.7	911.3	911.3	913.5	911.3	908.0
55°	790.6	787.3	782.9	785.1	779.5	778.4	774.0	774.0	770.7	768.5	761.8
57.5°	666.6	664.4	654.4	653.3	654.4	646.7	638.9	635.6	626.7	624.5	623.4
60°	557.0	544.8	539.2	532.6	528.2	524.9	516.0	510.5	497.2	489.4	488.3
62.5°	442.9	437.4	430.7	420.8	418.6	407.5	398.6	384.2	377.6	367.6	357.7
65°	351.0	336.6	326.6	321.1	312.3	302.3	292.3	276.8	269.1	256.9	246.9
67.5°	256.9	244.7	231.4	227.0	219.2	207.1	197.1	183.8	177.2	166.1	162.8
70°	176.1	165.0	155.0	148.4	142.8	130.7	120.7	116.3	109.6	107.4	107.4
72.5°	112.9	103.0	91.9	88.6	84.2	77.5	70.9	68.7	70.9	69.8	69.8
75°	63.1	57.6	49.8	46.5	46.5	44.3	43.2	43.2	43.2	43.2	43.2
77.5°	32.1	28.8	26.6	25.5	25.5	25.5	26.6	26.6	26.6	27.7	26.6
80°	15.5	14.4	14.4	14.4	15.5	15.5	15.5	15.5	15.5	16.6	15.5
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	8.9	8.9	8.9	8.9	8.9
85°	3.3	3.3	3.3	3.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P684535

CATALOG NUMBER: LX6C70D010 EX6C709035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2	3294.2
2.5°	3269.8	3267.6	3267.6	3266.5	3266.5	3266.5	3266.5	3267.6
5°	3234.4	3233.3	3233.3	3231.1	3231.1	3231.1	3231.1	3231.1
7.5°	3186.8	3184.6	3185.7	3183.4	3183.4	3184.6	3183.4	3182.3
10°	3128.1	3127.0	3128.1	3128.1	3125.9	3124.8	3125.9	3127.0
12.5°	3061.6	3060.5	3058.3	3059.4	3059.4	3058.3	3057.2	3055.0
15°	2984.1	2983.0	2981.9	2980.8	2979.7	2980.8	2979.7	2977.5
17.5°	2893.3	2893.3	2892.2	2891.1	2890.0	2887.8	2888.9	2892.2
20°	2795.9	2794.8	2792.6	2793.7	2789.3	2787.0	2788.1	2791.5
22.5°	2684.1	2680.7	2683.0	2679.6	2679.6	2680.7	2679.6	2677.4
25°	2562.3	2557.8	2560.0	2561.2	2561.2	2560.0	2558.9	2560.0
27.5°	2427.2	2430.5	2430.5	2428.3	2431.6	2427.2	2429.4	2430.5
30°	2288.8	2285.4	2284.3	2288.8	2295.4	2289.9	2289.9	2291.0
32.5°	2145.9	2141.5	2141.5	2143.7	2142.6	2142.6	2147.0	2141.5
35°	1993.1	1995.3	1986.5	1992.0	1994.2	1992.0	1993.1	1993.1
37.5°	1839.2	1837.0	1837.0	1837.0	1840.3	1840.3	1842.5	1841.4
40°	1687.5	1683.1	1682.0	1684.2	1679.8	1683.1	1683.1	1679.8
42.5°	1523.6	1524.7	1530.3	1524.7	1525.8	1524.7	1522.5	1521.4
45°	1371.9	1375.2	1373.0	1371.9	1373.0	1368.6	1369.7	1373.0
47.5°	1211.4	1218.0	1211.4	1215.8	1214.7	1212.5	1210.3	1205.8
50°	1060.8	1063.0	1061.9	1060.8	1059.7	1058.6	1053.0	1049.7
52.5°	906.9	906.9	906.9	906.9	895.8	901.3	899.1	892.5
55°	756.3	759.6	755.2	755.2	747.4	747.4	745.2	746.3
57.5°	611.2	607.9	604.6	604.6	596.8	593.5	590.2	585.8
60°	476.1	472.8	468.4	462.8	455.1	455.1	452.9	444.0
62.5°	348.8	343.3	339.9	335.5	328.9	324.4	321.1	323.3
65°	239.2	233.6	229.2	229.2	229.2	227.0	225.9	225.9
67.5°	157.2	160.6	158.3	160.6	160.6	158.3	157.2	159.4
70°	108.5	108.5	107.4	107.4	107.4	107.4	106.3	107.4
72.5°	69.8	69.8	69.8	70.9	69.8	69.8	70.9	70.9
75°	44.3	44.3	44.3	45.4	44.3	44.3	45.4	44.3
77.5°	26.6	27.7	27.7	27.7	27.7	26.6	27.7	27.7
80°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
82.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)