

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: P684443

Luminaire Tested: **LX6C60D010 EX6C609027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684443
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: LX6C60D010 EX6C609027 6LBLWWH
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

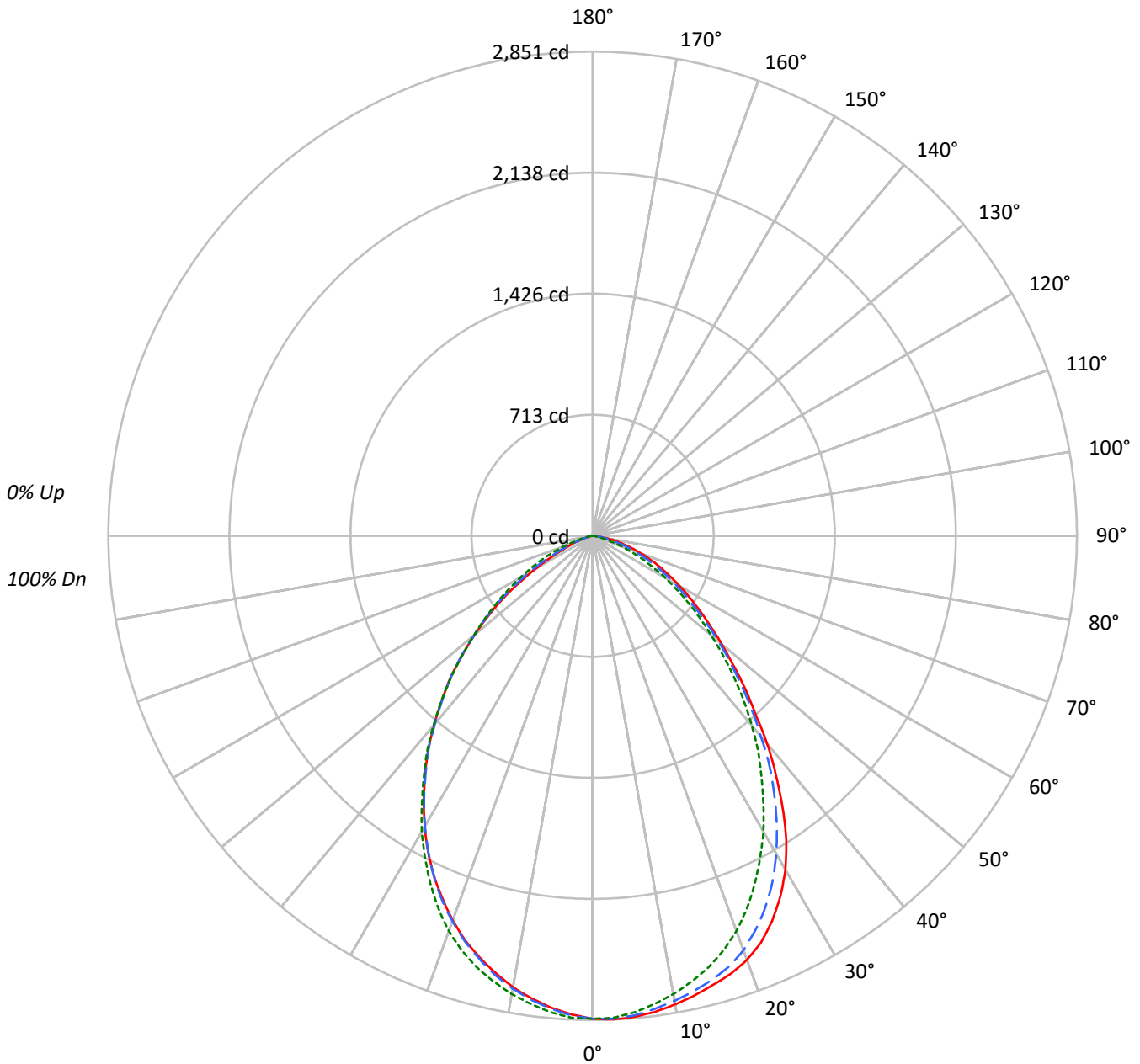
Lumens per Lamp: N/A
Luminaire Lumens: 5173.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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

TEST NUMBER: P684443

CATALOG NUMBER: LX6C60D010 EX6C609027 6LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P684443

CATALOG NUMBER: LX6C60D010 EX6C609027 6LBLWWH

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°	155903	155903	155903
5°	156449	155029	153499
10°	155970	152508	150276
15°	155381	149360	145886
20°	155034	144440	140590
25°	151261	136689	133683
30°	143718	127317	125196
35°	130446	115924	115155
40°	114450	104324	103780
45°	98126	91157	91901
50°	84466	77695	77285
55°	73823	65603	61580
60°	64874	53768	42025
65°	56789	41665	25295
70°	48422	28034	14858
75°	39079	14572	8091
80°	27150	5746	4514
85°	10819	1824	2390



TEST NUMBER: P684443

CATALOG NUMBER: LX6C60D010 EX6C609027 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	5.2
10°-20°	744.1	14.4
20°-30°	1058.9	20.5
30°-40°	1114.5	21.5
40°-50°	928.8	18.0
50°-60°	627.5	12.1
60°-70°	318.2	6.2
70°-80°	102.7	2.0
80°-90°	11.8	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°	2069.5	40.0
0°-40°	3184.0	61.6
0°-60°	4740.3	91.6
0°-90°	5173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5173.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2844	2844	2844	2844	2844	
5°	2843	2834	2817	2796	2789	270
15°	2738	2708	2632	2579	2570	774
25°	2501	2410	2260	2213	2210	1146
35°	1949	1865	1732	1715	1721	1213
45°	1266	1233	1176	1181	1185	980
55°	772	735	686	665	644	695
65°	438	395	321	232	195	436
75°	184	144	69	37	38	199
85°	17	10	3	4	4	30
90°	0	0	0	0	0	



TEST NUMBER: P684443

CATALOG NUMBER: LX6C60D010 EX6C609027 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9
2.5°	2850.6	2850.6	2850.6	2850.6	2850.6	2850.6	2849.7	2849.7	2847.7	2847.7	2846.8
5°	2843.0	2843.9	2843.9	2843.0	2843.0	2841.1	2841.1	2840.1	2837.2	2835.3	2834.4
7.5°	2826.7	2826.7	2825.8	2824.8	2823.8	2821.0	2820.0	2817.2	2815.2	2813.3	2809.5
10°	2801.9	2801.9	2800.9	2799.0	2798.0	2796.1	2796.1	2792.3	2788.5	2783.7	2780.8
12.5°	2772.2	2773.2	2771.3	2770.3	2767.4	2766.5	2764.6	2759.8	2756.9	2751.2	2746.4
15°	2737.8	2739.7	2739.7	2735.9	2733.0	2732.1	2729.2	2726.3	2719.6	2713.9	2708.2
17.5°	2704.4	2706.3	2704.4	2701.5	2698.6	2694.8	2692.9	2687.1	2678.5	2670.9	2662.3
20°	2657.5	2660.4	2656.6	2651.8	2646.0	2645.1	2642.2	2632.7	2620.2	2608.8	2596.3
22.5°	2591.6	2589.6	2586.8	2584.9	2575.3	2569.6	2565.7	2553.3	2539.9	2524.6	2509.3
25°	2500.7	2504.6	2498.8	2490.2	2485.4	2479.7	2470.1	2456.8	2444.3	2428.1	2409.9
27.5°	2393.7	2393.7	2386.0	2383.2	2372.6	2365.0	2360.2	2346.8	2330.6	2314.3	2294.3
30°	2270.4	2264.6	2264.6	2251.2	2242.6	2239.8	2235.0	2213.0	2198.7	2181.5	2161.4
32.5°	2121.2	2120.3	2116.5	2107.8	2096.4	2086.8	2086.8	2071.5	2052.4	2031.4	2018.9
35°	1949.2	1950.1	1948.2	1938.6	1938.6	1927.2	1925.3	1911.9	1896.6	1880.3	1865.0
37.5°	1771.4	1775.2	1771.4	1766.6	1763.7	1762.8	1754.1	1744.6	1733.1	1723.6	1712.1
40°	1599.3	1593.6	1595.5	1585.9	1586.9	1584.9	1581.1	1568.7	1562.0	1552.4	1540.0
42.5°	1413.8	1419.6	1421.5	1415.7	1413.8	1410.0	1413.8	1409.1	1401.4	1396.6	1385.2
45°	1265.7	1259.9	1262.8	1260.9	1261.8	1254.2	1251.3	1249.4	1246.5	1237.9	1233.2
47.5°	1118.4	1119.4	1118.4	1114.6	1112.7	1112.7	1108.9	1103.2	1103.2	1097.4	1093.6
50°	990.4	990.4	992.3	987.5	985.6	981.8	982.7	977.0	973.1	968.4	965.5
52.5°	872.8	873.7	869.9	870.9	868.9	868.9	865.1	861.3	857.5	848.9	847.0
55°	772.4	773.4	768.6	770.5	764.8	761.9	760.0	754.2	754.2	745.6	735.1
57.5°	678.7	677.8	676.8	673.9	670.1	667.2	664.4	657.7	654.8	649.1	640.5
60°	591.7	590.8	588.9	587.9	585.0	578.3	578.3	573.6	564.0	558.3	549.7
62.5°	509.5	509.5	508.6	505.7	502.8	500.0	498.0	494.2	484.7	478.0	470.3
65°	437.8	436.9	434.0	429.2	427.3	427.3	420.6	417.7	410.1	403.4	394.8
67.5°	369.0	365.2	363.3	364.2	358.5	358.5	352.7	348.0	341.3	329.8	323.1
70°	302.1	300.2	298.3	296.3	295.4	291.6	288.7	283.0	276.3	267.7	257.1
72.5°	241.9	241.9	239.0	237.1	234.2	230.4	228.5	223.7	216.0	206.5	198.8
75°	184.5	184.5	184.5	180.7	178.8	176.8	171.1	168.2	159.6	153.9	144.3
77.5°	135.7	133.8	131.0	130.0	128.1	126.2	123.3	118.5	110.9	104.2	98.5
80°	86.0	88.9	86.0	86.0	81.3	79.3	78.4	72.7	69.8	64.0	59.3
82.5°	47.8	48.8	46.8	45.9	43.0	42.1	42.1	38.2	36.3	32.5	29.6
85°	17.2	18.2	17.2	17.2	15.3	16.3	15.3	14.3	12.4	10.5	9.6
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P684443

CATALOG NUMBER: LX6C60D010 EX6C609027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9
2.5°	2846.8	2844.9	2844.9	2843.9	2843.0	2843.0	2843.0	2842.0	2840.1	2840.1	2839.1
5°	2832.4	2830.5	2827.7	2825.8	2824.8	2823.8	2822.9	2821.9	2818.1	2817.2	2814.3
7.5°	2806.6	2804.7	2799.9	2798.0	2795.2	2794.2	2790.4	2788.5	2784.7	2780.8	2778.9
10°	2776.0	2771.3	2767.4	2762.7	2760.8	2757.9	2753.1	2747.4	2744.5	2739.7	2735.9
12.5°	2741.6	2735.9	2728.3	2722.5	2720.6	2715.8	2708.2	2703.4	2696.7	2689.1	2682.4
15°	2698.6	2691.9	2685.2	2674.7	2671.9	2666.1	2658.5	2648.9	2639.3	2631.7	2624.1
17.5°	2651.8	2641.3	2630.7	2619.3	2610.7	2607.8	2595.4	2582.0	2573.4	2560.0	2551.4
20°	2585.8	2571.5	2554.3	2542.8	2535.2	2526.5	2512.2	2497.9	2487.4	2475.9	2463.5
22.5°	2495.0	2481.6	2461.5	2444.3	2438.6	2426.2	2413.7	2400.4	2387.0	2374.6	2359.3
25°	2387.9	2373.6	2353.5	2336.3	2326.8	2321.0	2297.1	2283.7	2270.4	2259.8	2249.3
27.5°	2278.0	2252.2	2238.8	2212.0	2203.4	2201.5	2179.5	2165.2	2150.9	2136.5	2123.1
30°	2142.3	2122.2	2102.1	2083.0	2071.5	2064.8	2048.6	2030.4	2020.9	2011.3	1997.9
32.5°	2001.7	1983.6	1958.7	1940.6	1932.0	1922.4	1908.1	1895.6	1881.3	1870.8	1867.9
35°	1851.7	1831.6	1810.5	1797.2	1795.3	1783.8	1769.4	1758.9	1748.4	1732.2	1729.3
37.5°	1691.1	1679.6	1665.2	1646.1	1637.5	1637.5	1623.2	1615.5	1602.2	1601.2	1593.6
40°	1533.3	1528.5	1506.6	1500.8	1498.9	1485.5	1481.7	1468.3	1458.8	1457.8	1446.3
42.5°	1377.5	1365.1	1361.3	1351.7	1343.1	1341.2	1332.6	1326.8	1323.0	1317.3	1311.5
45°	1222.6	1219.8	1210.2	1203.5	1200.7	1196.8	1194.0	1182.5	1180.6	1175.8	1172.9
47.5°	1088.8	1081.2	1072.6	1064.9	1064.0	1058.2	1051.5	1051.5	1041.0	1040.1	1038.2
50°	955.9	950.2	945.4	934.9	936.8	929.2	928.2	919.6	914.8	911.0	915.8
52.5°	839.3	827.8	825.9	817.3	814.5	815.4	804.9	802.0	800.1	796.3	794.4
55°	728.4	722.7	715.0	709.3	704.5	699.7	695.9	695.9	685.4	686.4	681.6
57.5°	630.9	626.1	616.6	608.0	606.1	600.3	595.6	590.8	589.8	583.1	578.3
60°	543.9	535.3	522.9	519.1	513.3	508.6	503.8	498.0	495.2	490.4	481.8
62.5°	462.7	448.3	443.6	435.9	429.2	426.3	418.7	412.0	407.2	400.5	393.8
65°	385.2	374.7	366.1	357.5	356.6	348.9	342.2	336.5	326.9	321.2	308.8
67.5°	314.5	304.9	295.4	286.8	280.1	278.2	267.7	261.0	254.3	242.8	232.3
70°	249.5	239.9	232.3	221.8	218.9	211.3	203.6	196.9	185.5	174.9	166.3
72.5°	190.2	179.7	171.1	163.5	158.7	152.0	144.3	136.7	125.2	114.7	107.1
75°	135.7	128.1	119.5	111.8	108.0	104.2	95.6	87.0	79.3	68.8	62.1
77.5°	91.8	84.1	76.5	69.8	65.0	62.1	56.4	49.7	43.0	37.3	32.5
80°	53.5	48.8	43.0	37.3	36.3	33.5	28.7	24.9	21.0	18.2	14.3
82.5°	25.8	22.9	19.1	16.3	14.3	13.4	11.5	9.6	7.6	6.7	6.7
85°	7.6	6.7	5.7	4.8	3.8	3.8	2.9	2.9	2.9	2.9	2.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P684443

CATALOG NUMBER: LX6C60D010 EX6C609027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9
2.5°	2836.3	2835.3	2834.4	2833.4	2831.5	2831.5	2828.6	2826.7	2826.7	2824.8	2823.8
5°	2811.4	2808.6	2807.6	2805.7	2803.8	2802.8	2799.0	2798.0	2796.1	2794.2	2794.2
7.5°	2776.0	2772.2	2768.4	2766.5	2765.5	2762.7	2760.8	2759.8	2756.9	2755.0	2751.2
10°	2729.2	2726.3	2721.6	2719.6	2717.7	2715.8	2711.0	2708.2	2707.2	2705.3	2703.4
12.5°	2674.7	2670.9	2666.1	2662.3	2660.4	2657.5	2652.7	2649.9	2649.9	2646.0	2646.0
15°	2616.4	2610.7	2602.1	2598.2	2597.3	2591.6	2587.7	2583.9	2579.1	2577.2	2577.2
17.5°	2541.8	2532.3	2524.6	2524.6	2520.8	2515.1	2509.3	2506.5	2503.6	2499.8	2497.9
20°	2453.9	2447.2	2438.6	2438.6	2430.0	2428.1	2422.4	2421.4	2414.7	2415.7	2412.8
22.5°	2347.8	2344.0	2339.2	2335.4	2330.6	2324.8	2322.0	2322.9	2320.1	2319.1	2318.2
25°	2240.7	2230.2	2224.5	2222.6	2220.6	2215.9	2214.0	2213.0	2213.0	2210.1	2211.1
27.5°	2117.4	2109.8	2102.1	2105.0	2101.2	2098.3	2096.4	2093.5	2095.4	2094.5	2095.4
30°	1991.2	1981.7	1976.9	1978.8	1977.8	1970.2	1974.0	1973.1	1974.0	1974.0	1975.9
32.5°	1858.3	1851.7	1850.7	1851.7	1843.1	1844.0	1840.2	1845.9	1846.9	1852.6	1847.8
35°	1723.6	1719.7	1713.0	1712.1	1713.0	1712.1	1712.1	1715.9	1715.0	1720.7	1718.8
37.5°	1584.9	1583.0	1576.3	1578.3	1574.4	1581.1	1583.0	1581.1	1587.8	1585.9	1584.9
40°	1449.2	1446.3	1442.5	1450.2	1445.4	1441.6	1448.2	1442.5	1444.4	1450.2	1450.2
42.5°	1311.5	1306.8	1306.8	1306.8	1305.8	1305.8	1308.7	1311.5	1309.6	1310.6	1318.2
45°	1172.9	1172.0	1169.1	1171.0	1170.1	1174.8	1174.8	1176.8	1180.6	1184.4	1182.5
47.5°	1039.1	1037.2	1040.1	1038.2	1039.1	1036.2	1038.2	1043.9	1048.7	1042.0	1048.7
50°	913.9	910.1	909.1	912.0	911.0	910.1	912.0	912.0	910.1	910.1	916.7
52.5°	794.4	790.6	787.7	792.5	789.6	790.6	786.7	786.7	788.7	786.7	783.9
55°	682.5	679.7	675.8	677.8	673.0	672.0	668.2	668.2	665.3	663.4	657.7
57.5°	575.5	573.6	565.0	564.0	565.0	558.3	551.6	548.7	541.1	539.2	538.2
60°	480.8	470.3	465.5	459.8	456.0	453.1	445.5	440.7	429.2	422.5	421.6
62.5°	382.4	377.6	371.9	363.3	361.3	351.8	344.1	331.7	326.0	317.4	308.8
65°	303.0	290.6	282.0	277.2	269.6	261.0	252.4	239.0	232.3	221.8	213.2
67.5°	221.8	211.3	199.8	196.0	189.3	178.8	170.2	158.7	153.0	143.4	140.5
70°	152.0	142.4	133.8	128.1	123.3	112.8	104.2	100.4	94.6	92.7	92.7
72.5°	97.5	88.9	79.3	76.5	72.7	66.9	61.2	59.3	61.2	60.2	60.2
75°	54.5	49.7	43.0	40.1	40.1	38.2	37.3	37.3	37.3	37.3	37.3
77.5°	27.7	24.9	22.9	22.0	22.0	22.0	22.9	22.9	22.9	23.9	22.9
80°	13.4	12.4	12.4	12.4	13.4	13.4	13.4	13.4	13.4	14.3	13.4
82.5°	6.7	6.7	6.7	6.7	6.7	6.7	7.6	7.6	7.6	7.6	7.6
85°	2.9	2.9	2.9	2.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P684443

CATALOG NUMBER: LX6C60D010 EX6C609027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9	2843.9
2.5°	2822.9	2821.0	2821.0	2820.0	2820.0	2820.0	2820.0	2821.0
5°	2792.3	2791.3	2791.3	2789.4	2789.4	2789.4	2789.4	2789.4
7.5°	2751.2	2749.3	2750.2	2748.3	2748.3	2749.3	2748.3	2747.4
10°	2700.5	2699.6	2700.5	2700.5	2698.6	2697.7	2698.6	2699.6
12.5°	2643.2	2642.2	2640.3	2641.3	2641.3	2640.3	2639.3	2637.4
15°	2576.3	2575.3	2574.3	2573.4	2572.4	2573.4	2572.4	2570.5
17.5°	2497.9	2497.9	2496.9	2496.0	2495.0	2493.1	2494.0	2496.9
20°	2413.7	2412.8	2410.9	2411.8	2408.0	2406.1	2407.1	2409.9
22.5°	2317.2	2314.3	2316.2	2313.4	2313.4	2314.3	2313.4	2311.5
25°	2212.0	2208.2	2210.1	2211.1	2211.1	2210.1	2209.2	2210.1
27.5°	2095.4	2098.3	2098.3	2096.4	2099.2	2095.4	2097.3	2098.3
30°	1975.9	1973.1	1972.1	1975.9	1981.7	1976.9	1976.9	1977.8
32.5°	1852.6	1848.8	1848.8	1850.7	1849.7	1849.7	1853.6	1848.8
35°	1720.7	1722.6	1715.0	1719.7	1721.6	1719.7	1720.7	1720.7
37.5°	1587.8	1585.9	1585.9	1585.9	1588.8	1588.8	1590.7	1589.7
40°	1456.9	1453.0	1452.1	1454.0	1450.2	1453.0	1453.0	1450.2
42.5°	1315.4	1316.3	1321.1	1316.3	1317.3	1316.3	1314.4	1313.5
45°	1184.4	1187.3	1185.4	1184.4	1185.4	1181.5	1182.5	1185.4
47.5°	1045.8	1051.5	1045.8	1049.6	1048.7	1046.8	1044.8	1041.0
50°	915.8	917.7	916.7	915.8	914.8	913.9	909.1	906.2
52.5°	782.9	782.9	782.9	782.9	773.4	778.1	776.2	770.5
55°	652.9	655.8	652.0	652.0	645.3	645.3	643.3	644.3
57.5°	527.7	524.8	521.9	521.9	515.3	512.4	509.5	505.7
60°	411.1	408.2	404.4	399.6	392.9	392.9	391.0	383.3
62.5°	301.1	296.3	293.5	289.6	283.9	280.1	277.2	279.1
65°	206.5	201.7	197.9	197.9	197.9	196.0	195.0	195.0
67.5°	135.7	138.6	136.7	138.6	138.6	136.7	135.7	137.7
70°	93.7	93.7	92.7	92.7	92.7	92.7	91.8	92.7
72.5°	60.2	60.2	60.2	61.2	60.2	60.2	61.2	61.2
75°	38.2	38.2	38.2	39.2	38.2	38.2	39.2	38.2
77.5°	22.9	23.9	23.9	23.9	23.9	22.9	23.9	23.9
80°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
82.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)