

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: P684418

Luminaire Tested: **LX6C55D010 EX6C559035 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684418
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: LX6C55D010 EX6C559035 6LBLWWH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

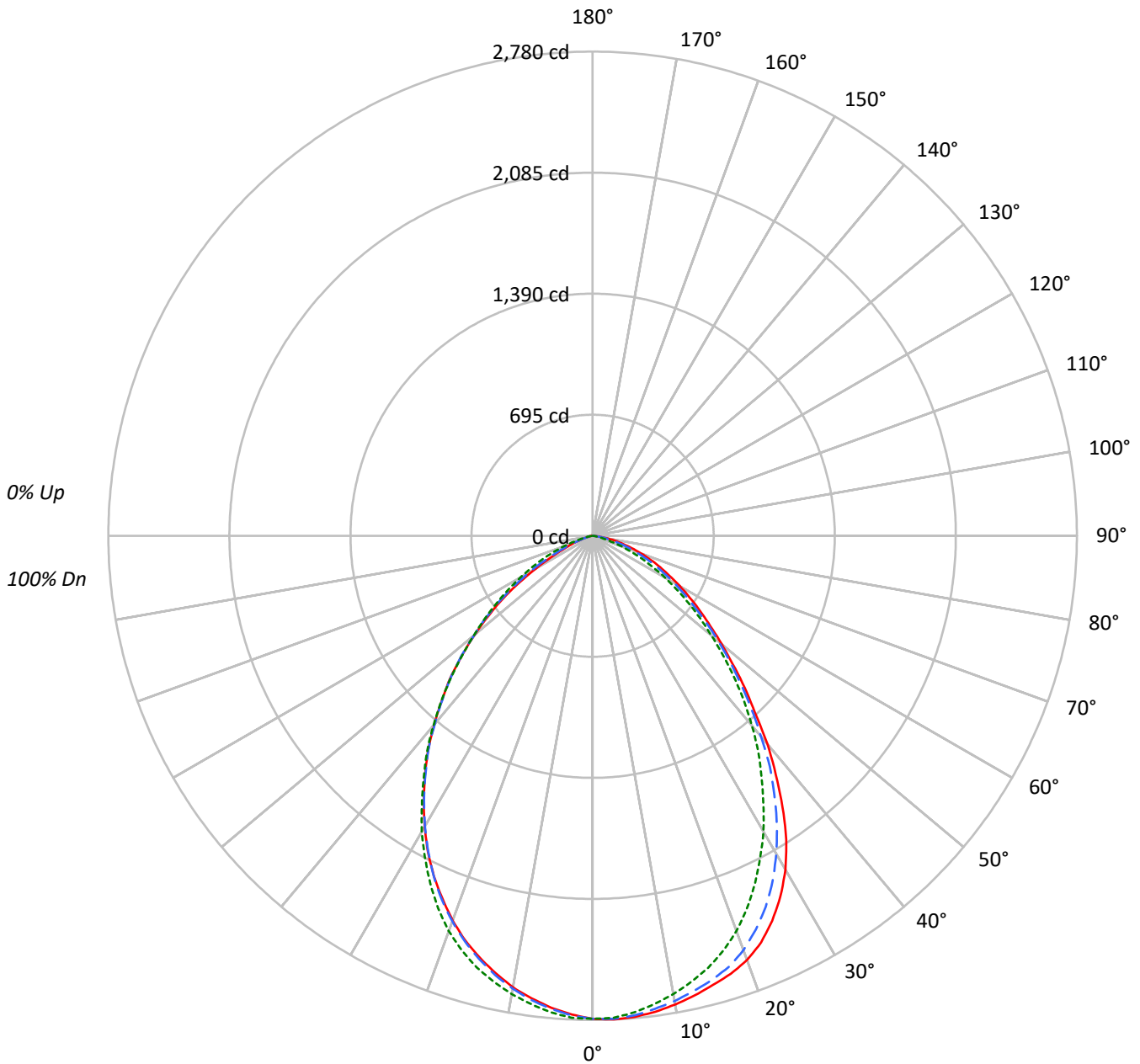
Lumens per Lamp: N/A
Luminaire Lumens: 5045.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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									
RC	80									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																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	152049	152049	152049
5°	152575	151188	149702
10°	152107	148734	146557
15°	151539	145665	142277
20°	151201	140864	137113
25°	147523	133308	130374
30°	140161	124165	122101
35°	127214	113053	112304
40°	111616	101741	101211
45°	95692	88901	89622
50°	82368	75776	75375
55°	71997	63979	60060
60°	63273	52441	40984
65°	55389	40627	24672
70°	47220	27344	14490
75°	38104	14212	7900
80°	26487	5588	4420
85°	10567	1761	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	5.2
10°-20°	725.7	14.4
20°-30°	1032.7	20.5
30°-40°	1086.9	21.5
40°-50°	905.8	18.0
50°-60°	612.0	12.1
60°-70°	310.3	6.2
70°-80°	100.2	2.0
80°-90°	11.5	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°	2018.3	40.0
0°-40°	3105.2	61.6
0°-60°	4623.1	91.6
0°-90°	5045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5045.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2774	2774	2774	2774	2774	
5°	2773	2764	2747	2727	2720	263
15°	2670	2641	2567	2515	2507	754
25°	2439	2350	2204	2158	2155	1118
35°	1901	1819	1689	1672	1678	1183
45°	1234	1203	1147	1151	1156	955
55°	753	717	669	649	628	678
65°	427	385	313	226	190	425
75°	180	141	67	36	37	194
85°	17	9	3	4	4	29
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°	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6
2.5°	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2779.1	2779.1	2777.3	2777.3	2776.3
5°	2772.6	2773.6	2773.6	2772.6	2772.6	2770.8	2770.8	2769.8	2767.0	2765.2	2764.2
7.5°	2756.8	2756.8	2755.8	2754.9	2754.0	2751.2	2750.2	2747.4	2745.6	2743.7	2740.0
10°	2732.5	2732.5	2731.6	2729.7	2728.8	2726.9	2726.9	2723.2	2719.5	2714.8	2712.0
12.5°	2703.6	2704.6	2702.7	2701.8	2699.0	2698.0	2696.2	2691.5	2688.7	2683.1	2678.5
15°	2670.1	2671.9	2671.9	2668.2	2665.4	2664.5	2661.7	2658.9	2652.4	2646.8	2641.2
17.5°	2637.4	2639.3	2637.4	2634.6	2631.8	2628.1	2626.2	2620.7	2612.3	2604.8	2596.4
20°	2591.8	2594.6	2590.8	2586.2	2580.6	2579.6	2576.8	2567.5	2555.4	2544.2	2532.1
22.5°	2527.4	2525.6	2522.8	2520.9	2511.6	2506.0	2502.3	2490.1	2477.1	2462.2	2447.3
25°	2438.9	2442.6	2437.0	2428.6	2423.9	2418.4	2409.0	2396.0	2383.9	2368.0	2350.3
27.5°	2334.4	2334.4	2327.0	2324.2	2313.9	2306.5	2301.8	2288.8	2272.9	2257.1	2237.5
30°	2214.2	2208.6	2208.6	2195.5	2187.1	2184.3	2179.7	2158.2	2144.3	2127.5	2107.9
32.5°	2068.7	2067.8	2064.1	2055.7	2044.5	2035.2	2035.2	2020.3	2001.6	1981.1	1969.0
35°	1900.9	1901.9	1900.0	1890.7	1890.7	1879.5	1877.6	1864.6	1849.7	1833.8	1818.9
37.5°	1727.5	1731.3	1727.5	1722.9	1720.1	1719.1	1710.7	1701.4	1690.2	1680.9	1669.7
40°	1559.7	1554.1	1556.0	1546.7	1547.6	1545.7	1542.0	1529.9	1523.4	1514.0	1501.9
42.5°	1378.9	1384.4	1386.3	1380.7	1378.9	1375.1	1378.9	1374.2	1366.7	1362.1	1350.9
45°	1234.3	1228.8	1231.5	1229.7	1230.6	1223.2	1220.4	1218.5	1215.7	1207.3	1202.6
47.5°	1090.8	1091.7	1090.8	1087.0	1085.2	1085.2	1081.5	1075.9	1075.9	1070.3	1066.5
50°	965.8	965.8	967.7	963.1	961.2	957.5	958.4	952.8	949.1	944.4	941.6
52.5°	851.2	852.1	848.4	849.3	847.4	847.4	843.7	840.0	836.3	827.9	826.0
55°	753.3	754.2	749.6	751.4	745.8	743.0	741.2	735.6	735.6	727.2	716.9
57.5°	661.9	661.0	660.1	657.3	653.5	650.7	647.9	641.4	638.6	633.0	624.6
60°	577.1	576.2	574.3	573.4	570.6	564.0	564.0	559.4	550.0	544.5	536.1
62.5°	496.9	496.9	496.0	493.2	490.4	487.6	485.7	482.0	472.7	466.1	458.7
65°	427.0	426.1	423.3	418.6	416.7	416.7	410.2	407.4	400.0	393.4	385.0
67.5°	359.9	356.1	354.3	355.2	349.6	349.6	344.0	339.4	332.8	321.6	315.1
70°	294.6	292.7	290.9	289.0	288.1	284.3	281.6	276.0	269.4	261.0	250.8
72.5°	235.9	235.9	233.1	231.2	228.4	224.7	222.8	218.2	210.7	201.4	193.9
75°	179.9	179.9	179.9	176.2	174.3	172.5	166.9	164.1	155.7	150.1	140.8
77.5°	132.4	130.5	127.7	126.8	124.9	123.1	120.3	115.6	108.1	101.6	96.0
80°	83.9	86.7	83.9	83.9	79.2	77.4	76.4	70.9	68.1	62.5	57.8
82.5°	46.6	47.5	45.7	44.7	42.0	41.0	41.0	37.3	35.4	31.7	28.9
85°	16.8	17.7	16.8	16.8	14.9	15.8	14.9	14.0	12.1	10.3	9.3
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6
2.5°	2776.3	2774.5	2774.5	2773.6	2772.6	2772.6	2772.6	2771.7	2769.8	2769.8	2768.9
5°	2762.4	2760.5	2757.7	2755.8	2754.9	2754.0	2753.0	2752.1	2748.4	2747.4	2744.7
7.5°	2737.2	2735.3	2730.7	2728.8	2726.0	2725.1	2721.3	2719.5	2715.7	2712.0	2710.2
10°	2707.4	2702.7	2699.0	2694.3	2692.4	2689.6	2685.0	2679.4	2676.6	2671.9	2668.2
12.5°	2673.8	2668.2	2660.7	2655.2	2653.3	2648.6	2641.2	2636.5	2630.0	2622.5	2616.0
15°	2631.8	2625.3	2618.8	2608.5	2605.7	2600.1	2592.7	2583.4	2574.0	2566.6	2559.1
17.5°	2586.2	2575.9	2565.7	2554.5	2546.1	2543.3	2531.2	2518.1	2509.7	2496.7	2488.3
20°	2521.8	2507.8	2491.1	2479.9	2472.4	2464.0	2450.0	2436.1	2425.8	2414.6	2402.5
22.5°	2433.3	2420.2	2400.6	2383.9	2378.3	2366.1	2354.0	2341.0	2327.9	2315.8	2300.9
25°	2328.9	2314.9	2295.3	2278.5	2269.2	2263.6	2240.3	2227.2	2214.2	2203.9	2193.7
27.5°	2221.6	2196.5	2183.4	2157.3	2148.9	2147.1	2125.6	2111.6	2097.6	2083.7	2070.6
30°	2089.3	2069.7	2050.1	2031.5	2020.3	2013.7	1997.9	1980.2	1970.9	1961.5	1948.5
32.5°	1952.2	1934.5	1910.3	1892.5	1884.2	1874.8	1860.8	1848.7	1834.7	1824.5	1821.7
35°	1805.8	1786.3	1765.7	1752.7	1750.8	1739.6	1725.7	1715.4	1705.2	1689.3	1686.5
37.5°	1649.2	1638.0	1624.0	1605.4	1597.0	1597.0	1583.0	1575.6	1562.5	1561.6	1554.1
40°	1495.4	1490.7	1469.3	1463.7	1461.8	1448.8	1445.0	1432.0	1422.7	1421.7	1410.5
42.5°	1343.4	1331.3	1327.6	1318.3	1309.9	1308.0	1299.6	1294.0	1290.3	1284.7	1279.1
45°	1192.4	1189.6	1180.3	1173.7	1171.0	1167.2	1164.4	1153.2	1151.4	1146.7	1143.9
47.5°	1061.9	1054.4	1046.0	1038.6	1037.6	1032.0	1025.5	1025.5	1015.3	1014.3	1012.5
50°	932.3	926.7	922.0	911.8	913.6	906.2	905.2	896.9	892.2	888.5	893.1
52.5°	818.5	807.4	805.5	797.1	794.3	795.2	785.0	782.2	780.3	776.6	774.7
55°	710.4	704.8	697.3	691.8	687.1	682.4	678.7	678.7	668.4	669.4	664.7
57.5°	615.3	610.6	601.3	592.9	591.1	585.5	580.8	576.2	575.2	568.7	564.0
60°	530.5	522.1	510.0	506.2	500.6	496.0	491.3	485.7	482.9	478.3	469.9
62.5°	451.2	437.2	432.6	425.1	418.6	415.8	408.3	401.8	397.2	390.6	384.1
65°	375.7	365.5	357.1	348.7	347.7	340.3	333.8	328.2	318.8	313.2	301.1
67.5°	306.7	297.4	288.1	279.7	273.2	271.3	261.0	254.5	248.0	236.8	226.5
70°	243.3	234.0	226.5	216.3	213.5	206.0	198.6	192.1	180.9	170.6	162.2
72.5°	185.5	175.3	166.9	159.4	154.8	148.2	140.8	133.3	122.1	111.9	104.4
75°	132.4	124.9	116.5	109.1	105.3	101.6	93.2	84.8	77.4	67.1	60.6
77.5°	89.5	82.0	74.6	68.1	63.4	60.6	55.0	48.5	42.0	36.4	31.7
80°	52.2	47.5	42.0	36.4	35.4	32.6	28.0	24.2	20.5	17.7	14.0
82.5°	25.2	22.4	18.6	15.8	14.0	13.1	11.2	9.3	7.5	6.5	6.5
85°	7.5	6.5	5.6	4.7	3.7	3.7	2.8	2.8	2.8	2.8	2.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6
2.5°	2766.1	2765.2	2764.2	2763.3	2761.4	2761.4	2758.6	2756.8	2756.8	2754.9	2754.0
5°	2741.9	2739.1	2738.1	2736.3	2734.4	2733.5	2729.7	2728.8	2726.9	2725.1	2725.1
7.5°	2707.4	2703.6	2699.9	2698.0	2697.1	2694.3	2692.4	2691.5	2688.7	2686.8	2683.1
10°	2661.7	2658.9	2654.2	2652.4	2650.5	2648.6	2644.0	2641.2	2640.2	2638.4	2636.5
12.5°	2608.5	2604.8	2600.1	2596.4	2594.6	2591.8	2587.1	2584.3	2584.3	2580.6	2580.6
15°	2551.7	2546.1	2537.7	2534.0	2533.0	2527.4	2523.7	2520.0	2515.3	2513.4	2513.4
17.5°	2478.9	2469.6	2462.2	2462.2	2458.4	2452.8	2447.3	2444.5	2441.7	2437.9	2436.1
20°	2393.2	2386.7	2378.3	2378.3	2369.9	2368.0	2362.4	2361.5	2355.0	2355.9	2353.1
22.5°	2289.7	2286.0	2281.3	2277.6	2272.9	2267.3	2264.5	2265.5	2262.7	2261.7	2260.8
25°	2185.3	2175.0	2169.4	2167.6	2165.7	2161.0	2159.2	2158.2	2158.2	2155.4	2156.4
27.5°	2065.0	2057.6	2050.1	2052.9	2049.2	2046.4	2044.5	2041.7	2043.6	2042.6	2043.6
30°	1942.0	1932.6	1928.0	1929.8	1928.9	1921.4	1925.2	1924.2	1925.2	1925.2	1927.0
32.5°	1812.4	1805.8	1804.9	1805.8	1797.4	1798.4	1794.7	1800.2	1801.2	1806.8	1802.1
35°	1680.9	1677.2	1670.7	1669.7	1670.7	1669.7	1669.7	1673.5	1672.5	1678.1	1676.3
37.5°	1545.7	1543.9	1537.3	1539.2	1535.5	1542.0	1543.9	1542.0	1548.5	1546.7	1545.7
40°	1413.3	1410.5	1406.8	1414.3	1409.6	1405.9	1412.4	1406.8	1408.7	1414.3	1414.3
42.5°	1279.1	1274.4	1274.4	1274.4	1273.5	1273.5	1276.3	1279.1	1277.2	1278.2	1285.6
45°	1143.9	1143.0	1140.2	1142.1	1141.1	1145.8	1145.8	1147.6	1151.4	1155.1	1153.2
47.5°	1013.4	1011.5	1014.3	1012.5	1013.4	1010.6	1012.5	1018.1	1022.7	1016.2	1022.7
50°	891.3	887.5	886.6	889.4	888.5	887.5	889.4	889.4	887.5	887.5	894.1
52.5°	774.7	771.0	768.2	772.9	770.1	771.0	767.3	767.3	769.1	767.3	764.5
55°	665.7	662.9	659.1	661.0	656.3	655.4	651.7	651.7	648.9	647.0	641.4
57.5°	561.2	559.4	551.0	550.0	551.0	544.5	537.9	535.1	527.7	525.8	524.9
60°	468.9	458.7	454.0	448.4	444.7	441.9	434.4	429.8	418.6	412.1	411.1
62.5°	372.9	368.3	362.7	354.3	352.4	343.1	335.6	323.5	317.9	309.5	301.1
65°	295.5	283.4	275.0	270.4	262.9	254.5	246.1	233.1	226.5	216.3	207.9
67.5°	216.3	206.0	194.8	191.1	184.6	174.3	165.9	154.8	149.2	139.8	137.0
70°	148.2	138.9	130.5	124.9	120.3	110.0	101.6	97.9	92.3	90.4	90.4
72.5°	95.1	86.7	77.4	74.6	70.9	65.3	59.7	57.8	59.7	58.7	58.7
75°	53.1	48.5	42.0	39.2	39.2	37.3	36.4	36.4	36.4	36.4	36.4
77.5°	27.0	24.2	22.4	21.4	21.4	21.4	22.4	22.4	22.4	23.3	22.4
80°	13.1	12.1	12.1	12.1	13.1	13.1	13.1	13.1	13.1	14.0	13.1
82.5°	6.5	6.5	6.5	6.5	6.5	6.5	7.5	7.5	7.5	7.5	7.5
85°	2.8	2.8	2.8	2.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P684418

CATALOG NUMBER: LX6C55D010 EX6C559035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6	2773.6
2.5°	2753.0	2751.2	2751.2	2750.2	2750.2	2750.2	2750.2	2751.2
5°	2723.2	2722.3	2722.3	2720.4	2720.4	2720.4	2720.4	2720.4
7.5°	2683.1	2681.3	2682.2	2680.3	2680.3	2681.3	2680.3	2679.4
10°	2633.7	2632.8	2633.7	2633.7	2631.8	2630.9	2631.8	2632.8
12.5°	2577.8	2576.8	2575.0	2575.9	2575.9	2575.0	2574.0	2572.2
15°	2512.5	2511.6	2510.6	2509.7	2508.8	2509.7	2508.8	2506.9
17.5°	2436.1	2436.1	2435.1	2434.2	2433.3	2431.4	2432.3	2435.1
20°	2354.0	2353.1	2351.2	2352.2	2348.4	2346.6	2347.5	2350.3
22.5°	2259.9	2257.1	2258.9	2256.1	2256.1	2257.1	2256.1	2254.3
25°	2157.3	2153.6	2155.4	2156.4	2156.4	2155.4	2154.5	2155.4
27.5°	2043.6	2046.4	2046.4	2044.5	2047.3	2043.6	2045.4	2046.4
30°	1927.0	1924.2	1923.3	1927.0	1932.6	1928.0	1928.0	1928.9
32.5°	1806.8	1803.0	1803.0	1804.9	1804.0	1804.0	1807.7	1803.0
35°	1678.1	1680.0	1672.5	1677.2	1679.0	1677.2	1678.1	1678.1
37.5°	1548.5	1546.7	1546.7	1546.7	1549.5	1549.5	1551.3	1550.4
40°	1420.8	1417.1	1416.1	1418.0	1414.3	1417.1	1417.1	1414.3
42.5°	1282.8	1283.8	1288.4	1283.8	1284.7	1283.8	1281.9	1281.0
45°	1155.1	1157.9	1156.0	1155.1	1156.0	1152.3	1153.2	1156.0
47.5°	1019.9	1025.5	1019.9	1023.7	1022.7	1020.9	1019.0	1015.3
50°	893.1	895.0	894.1	893.1	892.2	891.3	886.6	883.8
52.5°	763.5	763.5	763.5	763.5	754.2	758.9	757.0	751.4
55°	636.8	639.5	635.8	635.8	629.3	629.3	627.4	628.4
57.5°	514.6	511.8	509.0	509.0	502.5	499.7	496.9	493.2
60°	400.9	398.1	394.4	389.7	383.2	383.2	381.3	373.8
62.5°	293.7	289.0	286.2	282.5	276.9	273.2	270.4	272.2
65°	201.4	196.7	193.0	193.0	193.0	191.1	190.2	190.2
67.5°	132.4	135.2	133.3	135.2	135.2	133.3	132.4	134.2
70°	91.4	91.4	90.4	90.4	90.4	90.4	89.5	90.4
72.5°	58.7	58.7	58.7	59.7	58.7	58.7	59.7	59.7
75°	37.3	37.3	37.3	38.2	37.3	37.3	38.2	37.3
77.5°	22.4	23.3	23.3	23.3	23.3	22.4	23.3	23.3
80°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
82.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)