

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: P684392

Luminaire Tested: **LX6C50D010 EX6C509040 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684392  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C50D010 EX6C509040 6LCSWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

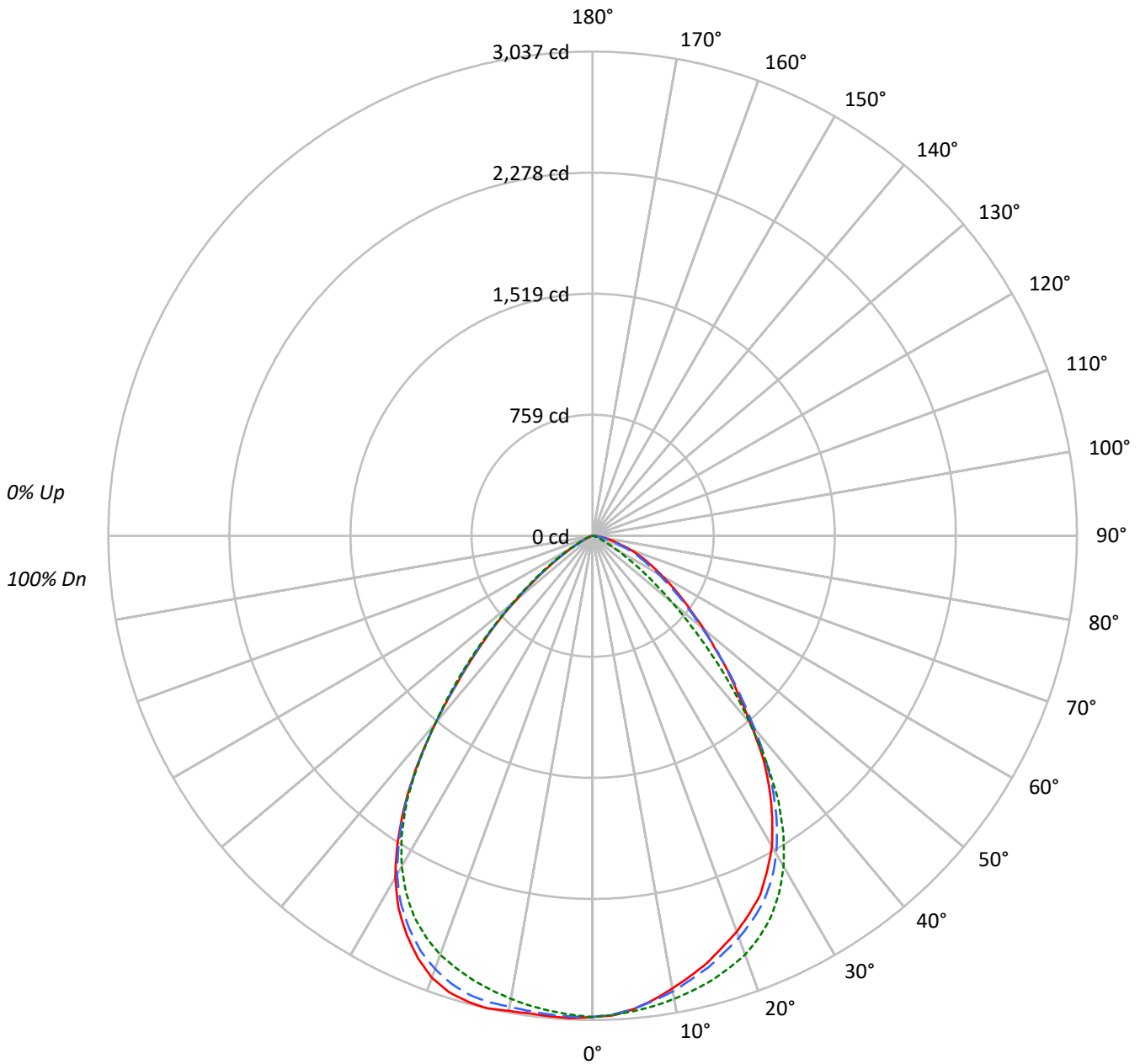
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5064.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	165475	165475	165475
5°	163895	164698	166508
10°	160518	164164	168434
15°	157447	163860	171726
20°	154183	163114	172046
25°	150384	159862	166921
30°	142383	151606	156682
35°	129302	135887	137112
40°	110357	109827	109305
45°	92700	82241	79698
50°	77422	55648	52860
55°	65154	34140	31014
60°	55160	17992	15591
65°	47761	9456	7562
70°	39734	5850	4087
75°	29357	3855	2330
80°	23014	2305	1168
85°	18367	2327	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.5	5.6
10°-20°	814.5	16.1
20°-30°	1202.8	23.8
30°-40°	1239.6	24.5
40°-50°	856.1	16.9
50°-60°	422.0	8.3
60°-70°	171.0	3.4
70°-80°	61.0	1.2
80°-90°	12.6	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°	2301.8	45.5
0°-40°	3541.3	69.9
0°-60°	4819.5	95.2
0°-90°	5064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3018	3018	3018	3018	3018	
5°	2978	2978	2993	3015	3026	281
15°	2774	2803	2887	2982	3026	781
25°	2486	2534	2643	2720	2760	1137
35°	1932	1980	2030	2042	2049	1197
45°	1196	1203	1061	1046	1028	924
55°	682	656	357	336	324	616
65°	368	332	73	58	58	366
75°	139	117	18	11	11	156
85°	29	22	4	0	0	36
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°	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	3011.1	3000.3	3007.5	2992.9	3011.1	2992.9	2996.6	3000.3	2996.6	3000.3	3003.8
5°	2978.3	2967.4	2978.3	2960.1	2978.3	2967.4	2967.4	2971.1	2971.1	2974.6	2978.3
7.5°	2934.6	2923.6	2934.6	2916.4	2938.2	2927.3	2927.3	2934.6	2930.9	2934.6	2941.9
10°	2883.6	2868.9	2879.9	2868.9	2890.9	2876.2	2883.6	2883.6	2883.6	2894.4	2901.9
12.5°	2828.9	2814.3	2828.9	2810.7	2832.5	2821.7	2825.2	2836.2	2839.7	2847.2	2850.7
15°	2774.2	2756.0	2763.3	2752.3	2774.2	2763.3	2767.0	2781.5	2781.5	2792.5	2803.4
17.5°	2705.0	2690.3	2705.0	2690.3	2708.6	2701.3	2708.6	2719.5	2719.5	2730.5	2741.3
20°	2642.9	2628.4	2639.3	2628.4	2650.3	2639.3	2642.9	2657.6	2661.1	2672.1	2683.1
22.5°	2566.4	2555.4	2562.7	2551.9	2573.7	2566.4	2570.1	2584.6	2588.3	2595.6	2613.8
25°	2486.2	2464.3	2475.2	2468.0	2489.9	2478.9	2486.2	2500.7	2508.1	2519.0	2533.6
27.5°	2369.5	2358.6	2365.8	2365.8	2384.1	2373.2	2376.8	2391.5	2402.3	2413.3	2431.5
30°	2249.3	2231.1	2238.4	2241.9	2256.6	2249.3	2256.6	2271.1	2274.8	2289.3	2303.9
32.5°	2096.2	2088.8	2103.5	2096.2	2103.5	2103.5	2107.0	2118.0	2125.3	2132.7	2150.9
35°	1932.1	1917.6	1932.1	1924.8	1943.1	1932.1	1943.1	1954.0	1954.0	1968.6	1979.5
37.5°	1753.5	1735.2	1742.5	1742.5	1749.8	1746.2	1746.2	1764.4	1768.0	1779.0	1789.9
40°	1542.1	1534.7	1549.4	1545.7	1549.4	1549.4	1552.9	1563.9	1571.2	1574.9	1578.6
42.5°	1352.5	1356.1	1359.8	1359.8	1359.8	1359.8	1359.8	1374.3	1370.7	1381.7	1385.3
45°	1195.7	1181.1	1188.4	1184.8	1195.7	1184.8	1195.7	1206.6	1199.4	1210.3	1202.9
47.5°	1035.3	1035.3	1035.3	1031.7	1039.0	1035.3	1042.5	1046.2	1046.2	1046.2	1042.5
50°	907.8	896.8	900.4	900.4	904.1	900.4	907.8	911.4	911.4	904.1	889.6
52.5°	783.7	780.2	780.2	787.4	787.4	783.7	783.7	783.7	783.7	772.9	765.5
55°	681.7	674.5	678.0	678.0	678.0	678.0	681.7	678.0	678.0	667.1	656.2
57.5°	590.6	583.3	583.3	583.3	586.9	583.3	583.3	583.3	579.6	568.6	554.1
60°	503.1	499.4	503.1	503.1	506.7	503.1	503.1	503.1	495.8	484.9	470.2
62.5°	430.2	430.2	430.2	433.7	433.7	430.2	430.2	426.5	422.9	408.2	393.7
65°	368.2	364.5	368.2	368.2	371.8	371.8	368.2	364.5	360.9	346.3	331.7
67.5°	306.3	302.6	306.3	306.3	309.8	306.3	306.3	306.3	295.3	288.0	273.4
70°	247.9	244.3	244.3	244.3	247.9	240.6	244.3	244.3	237.0	226.1	211.4
72.5°	189.6	189.6	189.6	189.6	189.6	189.6	185.9	185.9	178.6	167.7	160.4
75°	138.6	138.6	142.2	142.2	138.6	138.6	138.6	134.9	131.2	123.9	116.7
77.5°	102.1	102.1	102.1	102.1	98.4	98.4	98.4	94.7	91.2	87.5	80.2
80°	72.9	72.9	72.9	69.2	72.9	69.2	69.2	69.2	62.0	58.3	54.7
82.5°	51.0	47.4	47.4	47.4	47.4	47.4	47.4	43.7	43.7	40.2	36.5
85°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	25.5	21.9	21.9
87.5°	14.5	18.2	18.2	18.2	18.2	18.2	18.2	14.5	14.5	14.5	11.0
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°	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	3003.8	3003.8	3011.1	3000.3	3018.5	3007.5	3003.8	3022.1	3011.1	3007.5	3014.8
5°	2978.3	2982.0	2985.6	2978.3	2996.6	2985.6	2985.6	3003.8	2996.6	2992.9	3003.8
7.5°	2945.6	2949.1	2956.4	2952.8	2967.4	2960.1	2963.8	2982.0	2974.6	2974.6	2985.6
10°	2905.4	2912.7	2920.1	2920.1	2938.2	2930.9	2930.9	2952.8	2945.6	2949.1	2963.8
12.5°	2858.0	2868.9	2879.9	2883.6	2901.9	2890.9	2894.4	2920.1	2916.4	2920.1	2934.6
15°	2807.0	2821.7	2832.5	2832.5	2854.4	2843.5	2854.4	2879.9	2872.7	2887.2	2905.4
17.5°	2748.7	2763.3	2777.8	2781.5	2803.4	2796.0	2810.7	2836.2	2836.2	2843.5	2865.4
20°	2694.0	2712.3	2719.5	2730.5	2752.3	2748.7	2756.0	2785.2	2785.2	2796.0	2818.0
22.5°	2621.1	2639.3	2653.9	2664.8	2683.1	2683.1	2694.0	2719.5	2719.5	2726.8	2748.7
25°	2540.9	2562.7	2573.7	2584.6	2602.9	2599.2	2610.1	2632.1	2635.6	2642.9	2664.8
27.5°	2438.8	2457.0	2471.7	2478.9	2504.4	2489.9	2500.7	2526.4	2522.7	2529.9	2548.2
30°	2311.3	2329.5	2344.0	2344.0	2365.8	2365.8	2376.8	2387.8	2387.8	2395.0	2409.7
32.5°	2161.7	2183.7	2183.7	2194.6	2209.2	2194.6	2209.2	2223.7	2216.4	2227.4	2238.4
35°	1990.4	2001.3	2005.0	2005.0	2016.0	2012.3	2008.6	2019.6	2012.3	2030.5	2041.5
37.5°	1782.7	1797.2	1789.9	1797.2	1793.5	1782.7	1782.7	1800.9	1786.2	1789.9	1800.9
40°	1582.1	1582.1	1578.6	1560.3	1563.9	1552.9	1549.4	1552.9	1538.4	1534.7	1549.4
42.5°	1374.3	1370.7	1359.8	1334.3	1337.8	1319.6	1305.1	1305.1	1297.8	1294.1	1297.8
45°	1188.4	1177.4	1159.2	1130.1	1122.7	1108.2	1079.0	1071.7	1060.8	1060.8	1064.5
47.5°	1017.0	1002.5	973.3	940.6	922.3	904.1	874.9	863.9	845.7	838.4	845.7
50°	874.9	849.4	812.9	765.5	747.3	725.5	696.3	678.0	659.8	652.5	648.8
52.5°	743.7	707.2	670.8	612.5	597.8	576.0	535.9	517.6	499.4	484.9	484.9
55°	630.6	597.8	546.8	492.1	470.2	448.4	408.2	382.7	364.5	357.2	350.0
57.5°	528.6	492.1	444.7	386.4	364.5	342.7	302.6	277.1	258.8	247.9	240.6
60°	444.7	404.7	357.2	306.3	280.8	258.8	218.8	193.2	174.9	164.1	156.7
62.5°	364.5	331.7	284.3	237.0	215.1	193.2	160.4	134.9	116.7	109.4	98.4
65°	306.3	273.4	229.6	189.6	171.4	149.4	120.4	98.4	83.9	72.9	65.7
67.5°	247.9	222.4	185.9	149.4	131.2	116.7	91.2	72.9	58.3	51.0	47.4
70°	196.9	171.4	142.2	113.0	102.1	87.5	69.2	51.0	43.7	36.5	32.8
72.5°	145.9	127.6	105.7	83.9	72.9	65.7	47.4	40.2	29.2	25.5	21.9
75°	105.7	91.2	76.5	58.3	51.0	47.4	36.5	25.5	21.9	18.2	14.5
77.5°	72.9	65.7	51.0	40.2	36.5	32.8	25.5	18.2	14.5	11.0	11.0
80°	47.4	40.2	32.8	25.5	25.5	21.9	14.5	11.0	11.0	7.3	7.3
82.5°	29.2	25.5	21.9	18.2	14.5	14.5	11.0	7.3	7.3	3.7	3.7
85°	18.2	14.5	11.0	11.0	7.3	7.3	7.3	3.7	3.7	3.7	3.7
87.5°	7.3	7.3	7.3	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0
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°	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	3014.8	3014.8	3022.1	3011.1	3018.5	3018.5	3025.8	3011.1	3018.5	3022.1	3029.3
5°	3000.3	3003.8	3011.1	3007.5	3011.1	3011.1	3018.5	3000.3	3014.8	3014.8	3025.8
7.5°	2985.6	2985.6	2992.9	2989.3	2996.6	3000.3	3007.5	2992.9	3007.5	3007.5	3018.5
10°	2967.4	2967.4	2978.3	2974.6	2985.6	2989.3	3000.3	2985.6	3000.3	3003.8	3014.8
12.5°	2941.9	2945.6	2956.4	2956.4	2967.4	2974.6	2985.6	2978.3	2996.6	3000.3	3014.8
15°	2912.7	2920.1	2934.6	2930.9	2941.9	2952.8	2967.4	2956.4	2982.0	2989.3	3003.8
17.5°	2876.2	2883.6	2894.4	2894.4	2905.4	2912.7	2930.9	2923.6	2945.6	2949.1	2967.4
20°	2821.7	2832.5	2847.2	2843.5	2854.4	2861.7	2876.2	2868.9	2890.9	2898.1	2916.4
22.5°	2756.0	2763.3	2774.2	2774.2	2785.2	2792.5	2807.0	2796.0	2818.0	2821.7	2836.2
25°	2668.5	2675.8	2683.1	2686.8	2697.6	2701.3	2708.6	2701.3	2719.5	2723.2	2741.3
27.5°	2555.4	2559.1	2570.1	2570.1	2577.4	2580.9	2591.9	2577.4	2602.9	2602.9	2613.8
30°	2420.5	2417.0	2431.5	2424.2	2431.5	2431.5	2442.5	2435.2	2453.4	2446.2	2457.0
32.5°	2241.9	2249.3	2249.3	2241.9	2256.6	2252.9	2252.9	2245.6	2256.6	2260.1	2267.4
35°	2034.2	2045.1	2045.1	2048.8	2052.5	2041.5	2045.1	2023.3	2041.5	2045.1	2048.8
37.5°	1808.2	1797.2	1804.5	1793.5	1811.7	1789.9	1789.9	1775.4	1789.9	1789.9	1793.5
40°	1549.4	1545.7	1552.9	1545.7	1542.1	1538.4	1531.1	1520.2	1534.7	1527.4	1538.4
42.5°	1305.1	1301.4	1301.4	1294.1	1290.5	1290.5	1283.3	1275.9	1272.3	1272.3	1290.5
45°	1053.5	1060.8	1053.5	1049.9	1057.2	1049.9	1053.5	1039.0	1046.2	1039.0	1046.2
47.5°	842.1	845.7	838.4	831.2	842.1	831.2	831.2	820.2	834.9	834.9	827.5
50°	652.5	648.8	641.6	648.8	645.3	645.3	645.3	634.3	641.6	630.6	638.0
52.5°	481.2	477.6	477.6	473.9	477.6	473.9	473.9	470.2	470.2	466.6	470.2
55°	350.0	346.3	339.0	339.0	339.0	342.7	339.0	335.5	335.5	331.7	335.5
57.5°	237.0	229.6	229.6	229.6	229.6	226.1	226.1	222.4	226.1	222.4	226.1
60°	153.1	153.1	145.9	145.9	145.9	145.9	145.9	142.2	145.9	145.9	145.9
62.5°	94.7	94.7	91.2	87.5	91.2	87.5	87.5	87.5	91.2	87.5	91.2
65°	62.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
67.5°	43.7	40.2	40.2	40.2	40.2	40.2	40.2	36.5	40.2	40.2	40.2
70°	29.2	29.2	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
72.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75°	14.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	11.0	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	7.3	7.3	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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: P684392

CATALOG NUMBER: LX6C50D010 EX6C509040 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	3018.5	3022.1	3014.8	3018.5	3011.1	3018.5	3022.1	3029.3
5°	3011.1	3014.8	3007.5	3014.8	3007.5	3014.8	3018.5	3025.8
7.5°	3003.8	3011.1	3003.8	3011.1	3003.8	3011.1	3014.8	3022.1
10°	3003.8	3014.8	3007.5	3018.5	3007.5	3014.8	3022.1	3025.8
12.5°	3003.8	3014.8	3011.1	3018.5	3014.8	3022.1	3029.3	3036.6
15°	2996.6	3007.5	3000.3	3011.1	3007.5	3011.1	3025.8	3025.8
17.5°	2956.4	2967.4	2967.4	2974.6	2974.6	2985.6	2992.9	3000.3
20°	2905.4	2916.4	2912.7	2923.6	2923.6	2934.6	2941.9	2949.1
22.5°	2828.9	2843.5	2839.7	2850.7	2847.2	2854.4	2868.9	2865.4
25°	2730.5	2748.7	2745.0	2752.3	2748.7	2748.7	2756.0	2759.6
27.5°	2610.1	2621.1	2617.4	2624.8	2617.4	2624.8	2632.1	2635.6
30°	2453.4	2460.7	2457.0	2460.7	2457.0	2464.3	2468.0	2475.2
32.5°	2263.8	2274.8	2263.8	2271.1	2267.4	2267.4	2282.1	2274.8
35°	2037.8	2041.5	2045.1	2045.1	2037.8	2041.5	2048.8	2048.8
37.5°	1786.2	1804.5	1782.7	1793.5	1789.9	1789.9	1789.9	1800.9
40°	1523.9	1527.4	1520.2	1520.2	1520.2	1516.5	1531.1	1527.4
42.5°	1275.9	1279.6	1275.9	1265.0	1268.6	1268.6	1279.6	1265.0
45°	1035.3	1042.5	1039.0	1039.0	1031.7	1031.7	1035.3	1028.0
47.5°	820.2	827.5	816.6	820.2	812.9	820.2	816.6	823.9
50°	623.3	630.6	627.0	630.6	630.6	623.3	634.3	619.8
52.5°	466.6	470.2	466.6	462.9	459.4	459.4	466.6	462.9
55°	331.7	328.0	328.0	328.0	331.7	331.7	328.0	324.5
57.5°	222.4	222.4	218.8	218.8	222.4	215.1	218.8	215.1
60°	142.2	142.2	142.2	142.2	138.6	142.2	142.2	142.2
62.5°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
65°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
67.5°	36.5	40.2	40.2	40.2	36.5	36.5	36.5	36.5
70°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
72.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0
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)