

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: P685015

Luminaire Tested: **LX6C45D010 EX6459027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C45D010 EX6459027 6LCSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

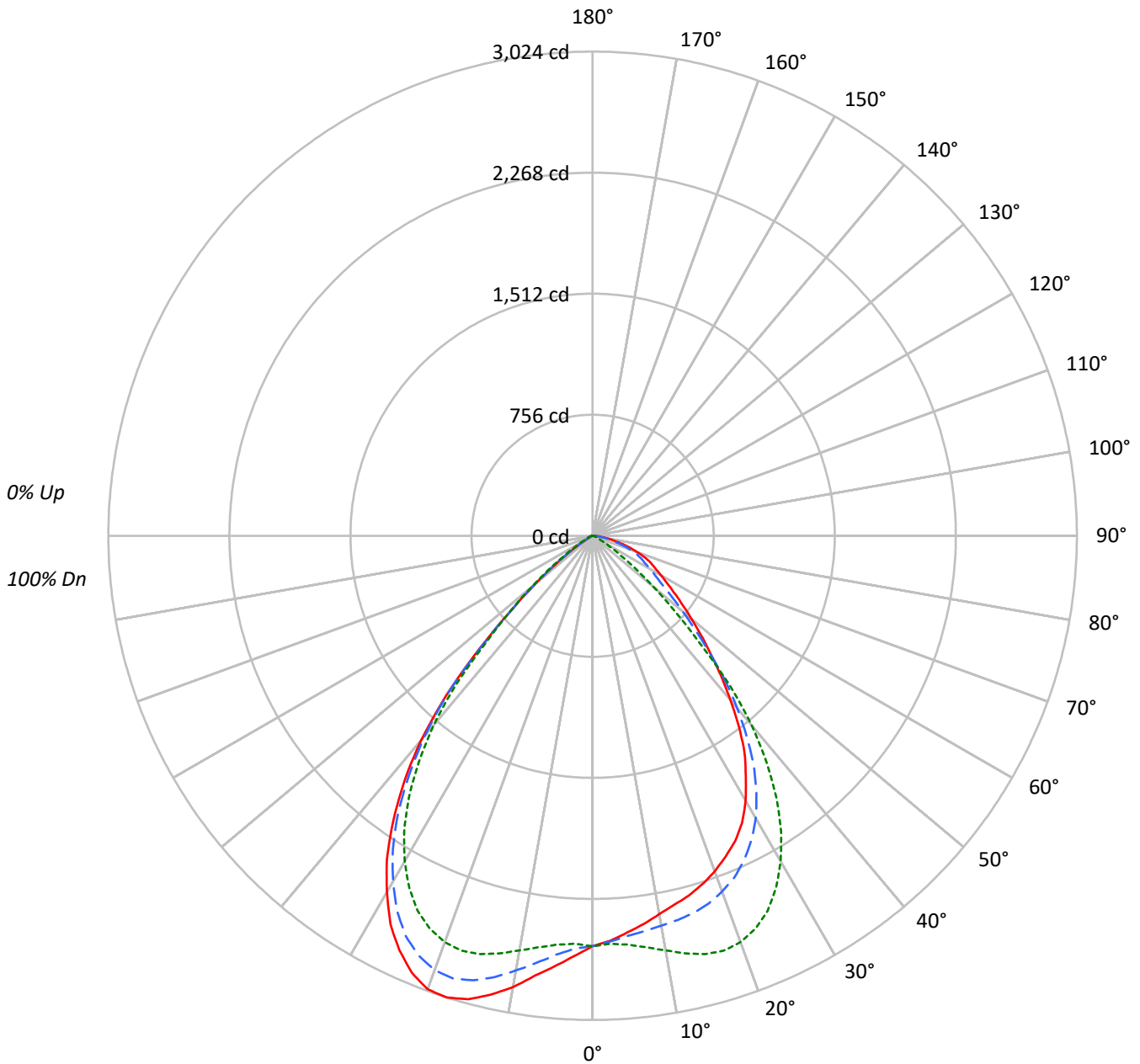
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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				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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	140510	140510	140510
5°	136864	141046	148459
10°	133537	146357	159316
15°	131976	153531	170080
20°	130083	157531	175826
25°	127320	156366	172673
30°	120987	148599	162557
35°	110691	133973	145123
40°	95744	110643	119059
45°	80737	72573	77884
50°	68544	42003	39504
55°	59487	20138	15216
60°	53735	9396	3761
65°	52120	5396	1271
70°	46739	4328	1186
75°	38401	3114	530
80°	28602	1547	0
85°	24656	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	5.3
10°-20°	754.5	16.1
20°-30°	1152.8	24.6
30°-40°	1205.7	25.7
40°-50°	782.2	16.7
50°-60°	310.6	6.6
60°-70°	147.3	3.1
70°-80°	70.1	1.5
80°-90°	14.3	0.3
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°	2154.9	46.0
0°-40°	3360.6	71.7
0°-60°	4453.3	95.1
0°-90°	4685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2563	2563	2563	2563	2563	
5°	2487	2509	2563	2627	2698	235
15°	2325	2438	2705	2874	2997	655
25°	2105	2237	2585	2759	2855	964
35°	1654	1754	2002	2120	2168	1023
45°	1041	1032	936	992	1005	810
55°	622	529	211	164	159	564
65°	402	333	42	10	10	393
75°	181	147	15	5	2	196
85°	39	24	0	0	0	46
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°	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1
2.5°	2531.2	2536.1	2509.2	2501.8	2521.4	2528.7	2531.2	2523.8	2526.3	2536.1	2536.1
5°	2487.1	2492.0	2467.5	2460.1	2479.7	2484.7	2492.0	2489.6	2496.9	2511.6	2509.2
7.5°	2445.5	2452.8	2425.8	2416.1	2440.6	2452.8	2457.7	2457.7	2467.5	2487.1	2489.6
10°	2398.9	2408.7	2384.2	2379.2	2406.2	2418.5	2421.0	2425.8	2440.6	2467.5	2472.4
12.5°	2359.7	2369.5	2352.4	2345.0	2374.4	2386.6	2391.5	2401.3	2418.5	2452.8	2457.7
15°	2325.4	2332.7	2313.1	2308.2	2337.6	2352.4	2354.7	2369.5	2391.5	2430.7	2438.1
17.5°	2281.3	2286.1	2271.5	2266.6	2296.0	2310.6	2313.1	2330.2	2357.2	2396.5	2408.7
20°	2229.8	2234.7	2220.0	2215.1	2244.5	2261.6	2264.1	2278.9	2310.6	2352.4	2364.6
22.5°	2168.5	2178.4	2161.3	2156.3	2185.7	2200.4	2207.8	2220.0	2251.9	2293.5	2310.6
25°	2104.9	2104.9	2092.6	2090.2	2117.1	2134.3	2131.8	2148.9	2180.8	2222.5	2237.1
27.5°	2021.5	2019.1	2006.8	2004.4	2033.8	2048.5	2043.6	2060.8	2090.2	2131.8	2146.5
30°	1911.3	1916.2	1899.0	1894.1	1918.7	1943.2	1940.7	1957.8	1987.2	2026.4	2036.3
32.5°	1779.0	1783.8	1781.4	1774.1	1796.1	1808.3	1815.7	1828.0	1852.4	1894.1	1903.9
35°	1654.0	1646.6	1636.8	1636.8	1658.9	1678.5	1671.1	1685.8	1710.3	1752.0	1754.5
37.5°	1499.6	1497.1	1492.3	1487.4	1511.9	1516.8	1519.2	1529.0	1551.1	1585.4	1580.5
40°	1337.9	1340.3	1337.9	1328.0	1342.8	1362.4	1359.9	1364.9	1384.4	1408.9	1401.6
42.5°	1185.9	1185.9	1185.9	1176.2	1193.3	1203.2	1208.0	1205.6	1210.4	1232.5	1222.7
45°	1041.4	1043.8	1041.4	1039.0	1041.4	1046.3	1041.4	1039.0	1039.0	1046.3	1031.6
47.5°	916.5	916.5	909.1	901.7	909.1	911.5	904.2	896.8	894.4	892.0	867.5
50°	803.7	801.2	798.9	786.6	793.9	796.4	786.6	781.6	771.9	759.6	730.2
52.5°	705.7	703.3	700.8	688.5	693.5	695.9	686.1	676.3	664.0	654.3	617.5
55°	622.4	619.9	619.9	612.6	607.7	612.6	602.8	595.4	578.3	566.0	529.3
57.5°	551.3	551.3	546.4	539.0	541.5	541.5	531.8	521.9	507.2	492.5	463.2
60°	490.1	490.1	490.1	482.7	482.7	482.7	477.8	468.0	455.8	441.1	411.7
62.5°	441.1	441.1	438.6	431.3	433.7	433.7	428.8	419.0	406.8	396.9	367.6
65°	401.8	401.8	401.8	394.5	394.5	396.9	392.1	382.3	372.4	360.2	333.2
67.5°	352.8	350.4	350.4	345.5	347.9	350.4	345.5	338.2	325.9	318.6	294.1
70°	291.6	294.1	296.5	289.2	291.6	291.6	289.2	281.8	274.5	267.1	245.1
72.5°	237.7	237.7	235.2	232.8	232.8	235.2	230.3	223.0	218.1	213.2	196.0
75°	181.3	178.9	181.3	176.5	176.5	176.5	171.5	169.1	166.6	159.2	147.0
77.5°	132.3	129.9	129.9	125.0	127.5	127.5	125.0	120.1	115.1	112.7	102.9
80°	90.6	90.6	90.6	88.2	88.2	85.7	85.7	83.3	78.4	76.0	71.1
82.5°	61.2	61.2	61.2	58.9	58.9	58.9	56.4	53.9	51.5	49.0	44.1
85°	39.2	39.2	39.2	36.7	36.7	36.7	34.3	34.3	31.9	29.4	24.5
87.5°	22.0	22.0	22.0	19.6	19.6	19.6	19.6	19.6	17.1	14.7	12.2
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°	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1
2.5°	2553.2	2519.0	2541.0	2541.0	2533.7	2553.2	2565.6	2575.3	2572.8	2550.8	2548.3
5°	2533.7	2504.2	2528.7	2531.2	2523.8	2550.8	2568.0	2580.2	2582.7	2563.1	2565.6
7.5°	2519.0	2494.5	2526.3	2536.1	2533.7	2558.2	2577.8	2597.3	2607.2	2592.5	2594.9
10°	2511.6	2492.0	2526.3	2541.0	2543.5	2570.4	2599.8	2626.8	2639.1	2629.2	2636.6
12.5°	2501.8	2489.6	2528.7	2550.8	2560.6	2587.6	2624.3	2656.2	2675.8	2670.9	2685.6
15°	2492.0	2482.2	2528.7	2560.6	2572.8	2597.3	2639.1	2685.6	2707.7	2705.2	2724.8
17.5°	2467.5	2465.1	2514.1	2548.3	2565.6	2594.9	2634.1	2690.4	2712.5	2717.4	2741.9
20°	2428.3	2428.3	2482.2	2519.0	2538.6	2565.6	2614.6	2668.4	2695.4	2700.3	2727.3
22.5°	2374.4	2379.2	2430.7	2467.5	2496.9	2516.5	2568.0	2624.3	2648.8	2656.2	2685.6
25°	2303.4	2308.2	2357.2	2394.0	2425.8	2447.9	2496.9	2548.3	2577.8	2585.1	2607.2
27.5°	2210.2	2220.0	2266.6	2303.4	2330.2	2345.0	2396.5	2450.3	2472.4	2479.7	2501.8
30°	2102.4	2104.9	2151.4	2183.3	2210.2	2222.5	2266.6	2323.0	2340.1	2347.5	2379.2
32.5°	1970.1	1967.7	2011.8	2041.2	2063.2	2077.9	2124.4	2161.3	2178.4	2190.6	2207.8
35°	1810.8	1808.3	1840.2	1874.6	1891.7	1896.6	1943.2	1982.3	1992.2	2001.9	2024.0
37.5°	1632.0	1632.0	1658.9	1676.1	1695.6	1703.0	1725.1	1769.2	1786.3	1783.8	1801.0
40°	1443.3	1433.5	1453.0	1470.2	1475.1	1477.5	1499.6	1533.9	1546.1	1546.1	1558.4
42.5°	1244.8	1230.1	1232.5	1242.3	1247.2	1230.1	1244.8	1266.8	1259.4	1269.3	1271.8
45°	1034.1	1012.0	1002.2	980.1	985.1	967.9	958.1	963.0	960.6	936.1	941.0
47.5°	862.5	823.4	806.1	774.4	767.0	747.4	735.1	713.0	693.5	693.5	681.2
50°	718.0	678.8	644.4	607.7	595.4	578.3	551.3	521.9	507.2	492.5	480.3
52.5°	602.8	561.1	519.4	480.3	463.2	441.1	404.3	374.9	347.9	333.2	318.6
55°	509.7	463.2	419.0	377.3	355.3	333.2	296.5	262.2	230.3	210.7	198.5
57.5°	438.6	394.5	347.9	303.8	284.2	259.7	220.6	183.7	154.4	132.3	120.1
60°	387.2	343.1	301.4	254.8	235.2	210.7	169.1	134.7	105.4	85.7	71.1
62.5°	343.1	303.8	259.7	218.1	198.5	174.0	134.7	100.5	73.5	53.9	41.6
65°	311.2	272.0	235.2	193.6	176.5	152.0	115.1	83.3	58.9	41.6	29.4
67.5°	274.5	240.1	203.4	169.1	152.0	132.3	98.0	71.1	49.0	34.3	24.5
70°	230.3	203.4	171.5	139.7	127.5	110.2	80.9	58.9	39.2	27.0	19.6
72.5°	183.7	161.7	137.2	112.7	102.9	85.7	66.1	46.6	29.4	19.6	14.7
75°	139.7	122.5	102.9	85.7	76.0	66.1	49.0	34.3	22.0	14.7	9.8
77.5°	95.6	88.2	73.5	58.9	53.9	46.6	31.9	22.0	14.7	9.8	4.9
80°	66.1	58.9	49.0	39.2	34.3	29.4	19.6	14.7	7.4	4.9	2.5
82.5°	41.6	34.3	29.4	24.5	22.0	17.1	12.2	7.4	4.9	2.5	2.5
85°	22.0	19.6	17.1	12.2	12.2	9.8	7.4	4.9	2.5	0.0	0.0
87.5°	12.2	9.8	7.4	4.9	4.9	2.5	2.5	2.5	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°	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1
2.5°	2577.8	2577.8	2575.3	2604.7	2570.4	2604.7	2587.6	2604.7	2580.2	2577.8	2580.2
5°	2597.3	2604.7	2607.2	2634.1	2602.3	2643.9	2629.2	2643.9	2626.8	2631.7	2639.1
7.5°	2636.6	2648.8	2646.4	2680.7	2648.8	2695.4	2685.6	2707.7	2690.4	2695.4	2705.2
10°	2680.7	2695.4	2697.8	2732.2	2702.7	2759.1	2746.8	2771.3	2756.7	2764.0	2776.3
12.5°	2732.2	2749.3	2751.8	2790.9	2759.1	2817.9	2810.5	2835.0	2822.8	2830.2	2844.9
15°	2771.3	2795.8	2800.8	2839.9	2805.7	2866.9	2862.0	2893.9	2874.3	2886.5	2898.8
17.5°	2790.9	2813.0	2822.8	2859.5	2830.2	2891.4	2886.5	2913.5	2898.8	2911.0	2925.8
20°	2778.7	2805.7	2813.0	2849.8	2820.4	2881.6	2874.3	2901.3	2886.5	2896.3	2911.0
22.5°	2734.6	2761.5	2771.3	2805.7	2778.7	2835.0	2832.6	2857.1	2837.5	2849.8	2862.0
25°	2656.2	2685.6	2690.4	2722.3	2692.9	2751.8	2746.8	2773.8	2759.1	2766.4	2783.6
27.5°	2543.5	2577.8	2585.1	2612.1	2590.1	2639.1	2639.1	2661.1	2643.9	2643.9	2661.1
30°	2408.7	2443.0	2447.9	2470.0	2450.3	2494.5	2496.9	2519.0	2492.0	2506.7	2509.2
32.5°	2244.5	2266.6	2281.3	2300.9	2271.5	2327.9	2320.5	2337.6	2323.0	2323.0	2335.2
35°	2046.0	2073.0	2080.4	2104.9	2080.4	2124.4	2124.4	2134.3	2119.5	2119.5	2139.1
37.5°	1830.4	1850.1	1852.4	1876.9	1857.3	1894.1	1891.7	1899.0	1884.3	1894.1	1894.1
40°	1578.0	1592.7	1597.6	1609.9	1607.5	1634.4	1632.0	1636.8	1629.5	1632.0	1636.8
42.5°	1284.0	1303.5	1313.4	1323.2	1308.5	1345.3	1337.9	1345.3	1342.8	1345.3	1352.6
45°	945.8	960.6	967.9	970.3	965.5	987.5	1004.6	990.0	992.4	987.5	997.3
47.5°	683.6	686.1	681.2	695.9	683.6	693.5	698.4	700.8	686.1	683.6	693.5
50°	468.0	480.3	463.2	470.4	468.0	477.8	472.9	475.4	460.7	468.0	463.2
52.5°	311.2	308.7	303.8	306.3	301.4	301.4	301.4	306.3	296.5	291.6	286.7
55°	188.7	183.7	174.0	171.5	171.5	174.0	169.1	164.2	164.2	161.7	161.7
57.5°	110.2	102.9	98.0	95.6	90.6	88.2	85.7	85.7	80.9	80.9	80.9
60°	61.2	53.9	49.0	44.1	44.1	41.6	39.2	36.7	36.7	36.7	34.3
62.5°	31.9	27.0	22.0	19.6	19.6	17.1	14.7	14.7	14.7	14.7	12.2
65°	22.0	17.1	14.7	12.2	12.2	9.8	9.8	9.8	9.8	9.8	9.8
67.5°	17.1	14.7	12.2	9.8	9.8	9.8	7.4	7.4	7.4	7.4	7.4
70°	14.7	9.8	9.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
72.5°	9.8	9.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
75°	7.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P685015

CATALOG NUMBER: LX6C45D010 EX6459027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1	2563.1
2.5°	2602.3	2599.8	2602.3	2607.2	2597.3	2626.8	2612.1	2626.8
5°	2658.7	2661.1	2663.6	2670.9	2658.7	2695.4	2675.8	2697.8
7.5°	2732.2	2734.6	2737.0	2744.4	2737.0	2773.8	2751.8	2771.3
10°	2808.1	2813.0	2813.0	2825.3	2817.9	2852.2	2837.5	2862.0
12.5°	2879.2	2884.0	2889.0	2896.3	2891.4	2928.1	2915.9	2935.5
15°	2935.5	2945.3	2947.8	2957.5	2952.6	2991.9	2977.1	2996.8
17.5°	2962.5	2972.3	2972.3	2984.5	2979.6	3021.3	3001.6	3023.7
20°	2947.8	2955.1	2957.5	2969.9	2964.9	3006.6	2987.0	3013.9
22.5°	2901.3	2903.6	2906.1	2918.4	2915.9	2952.6	2935.5	2952.6
25°	2815.4	2822.8	2820.4	2830.2	2830.2	2859.5	2839.9	2854.7
27.5°	2692.9	2700.3	2700.3	2712.5	2702.7	2732.2	2712.5	2734.6
30°	2543.5	2550.8	2545.9	2555.7	2545.9	2575.3	2560.6	2568.0
32.5°	2364.6	2364.6	2367.0	2369.5	2364.6	2391.5	2376.9	2391.5
35°	2151.4	2156.3	2158.8	2161.3	2156.3	2175.9	2158.8	2168.5
37.5°	1911.3	1923.5	1921.1	1923.5	1916.2	1940.7	1925.9	1930.9
40°	1654.0	1654.0	1651.5	1656.5	1649.1	1668.7	1658.9	1663.7
42.5°	1355.0	1362.4	1352.6	1364.9	1345.3	1372.2	1362.4	1355.0
45°	1016.9	1007.1	1004.6	1007.1	999.7	1002.2	1009.6	1004.6
47.5°	693.5	693.5	688.5	681.2	691.0	693.5	683.6	683.6
50°	465.6	465.6	460.7	458.2	463.2	460.7	455.8	463.2
52.5°	296.5	286.7	286.7	291.6	286.7	281.8	289.2	284.2
55°	161.7	156.8	156.8	161.7	156.8	156.8	154.4	159.2
57.5°	78.4	80.9	78.4	78.4	78.4	78.4	76.0	78.4
60°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
62.5°	14.7	14.7	12.2	12.2	12.2	12.2	12.2	12.2
65°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
67.5°	7.4	7.4	7.4	7.4	7.4	9.8	7.4	7.4
70°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
72.5°	7.4	7.4	9.8	9.8	9.8	9.8	9.8	9.8
75°	4.9	4.9	4.9	2.5	2.5	2.5	2.5	2.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)