

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: P685025

Luminaire Tested: **LX6C45D010 EX6459035 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685025
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 EX6459035 6LCSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

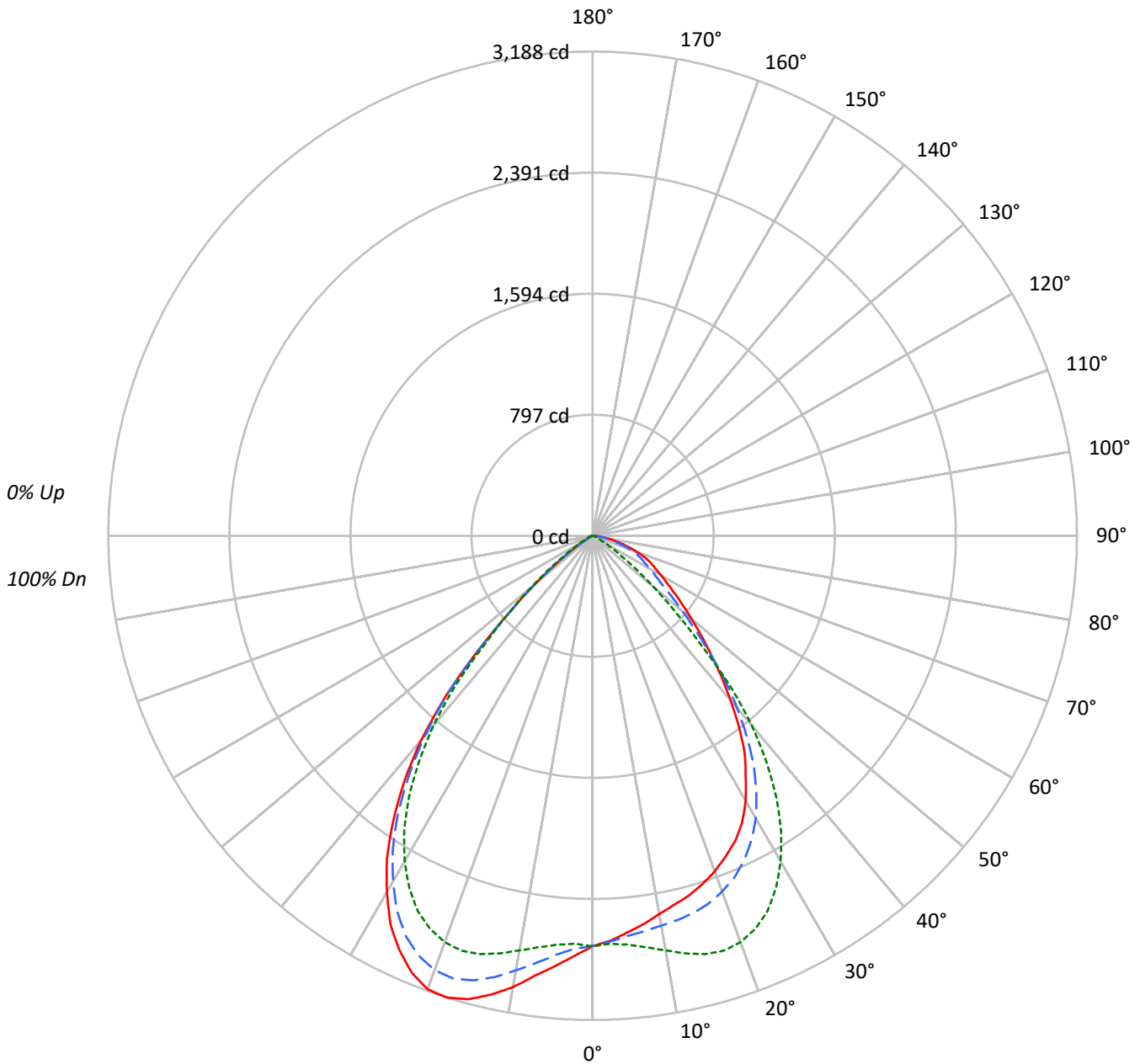
Lumens per Lamp: N/A
Luminaire Lumens: 4939.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	148124	148124	148124
5°	144282	148690	156510
10°	140773	154289	167955
15°	139127	161851	179297
20°	137136	166072	185359
25°	134221	164840	182031
30°	127545	156651	171368
35°	116687	141241	152993
40°	100932	116647	125514
45°	85117	76504	82109
50°	72262	44280	41645
55°	62707	21227	16047
60°	56640	9911	3958
65°	54948	5695	1336
70°	49271	4552	1250
75°	40498	3283	551
80°	30149	1610	0
85°	26040	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.0	5.3
10°-20°	795.4	16.1
20°-30°	1215.3	24.6
30°-40°	1271.1	25.7
40°-50°	824.6	16.7
50°-60°	327.4	6.6
60°-70°	155.3	3.1
70°-80°	73.9	1.5
80°-90°	15.1	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°	2271.7	46.0
0°-40°	3542.8	71.7
0°-60°	4694.8	95.1
0°-90°	4939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2702	2702	2702	2702	2702	
5°	2622	2645	2702	2769	2844	248
15°	2451	2570	2852	3030	3159	691
25°	2219	2358	2725	2909	3009	1016
35°	1744	1850	2110	2234	2286	1078
45°	1098	1088	987	1046	1059	854
55°	656	558	222	173	168	595
65°	424	351	44	10	10	414
75°	191	155	16	5	3	206
85°	41	26	0	0	0	48
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°	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0
2.5°	2668.4	2673.6	2645.2	2637.5	2658.1	2665.8	2668.4	2660.7	2663.3	2673.6	2673.6
5°	2621.9	2627.1	2601.3	2593.5	2614.2	2619.4	2627.1	2624.6	2632.3	2647.8	2645.2
7.5°	2578.0	2585.8	2557.4	2547.1	2572.9	2585.8	2591.0	2591.0	2601.3	2621.9	2624.6
10°	2528.9	2539.3	2513.5	2508.2	2536.7	2549.6	2552.2	2557.4	2572.9	2601.3	2606.4
12.5°	2487.7	2497.9	2479.9	2472.1	2503.1	2516.0	2521.2	2531.5	2549.6	2585.8	2591.0
15°	2451.4	2459.2	2438.5	2433.4	2464.4	2479.9	2482.4	2497.9	2521.2	2562.5	2570.3
17.5°	2404.9	2410.1	2394.6	2389.5	2420.5	2435.9	2438.5	2456.6	2485.0	2526.4	2539.3
20°	2350.7	2355.9	2340.4	2335.2	2366.2	2384.3	2386.9	2402.4	2435.9	2479.9	2492.8
22.5°	2286.1	2296.5	2278.4	2273.2	2304.3	2319.7	2327.5	2340.4	2374.0	2417.8	2435.9
25°	2219.0	2219.0	2206.1	2203.5	2231.9	2250.0	2247.4	2265.4	2299.0	2343.0	2358.4
27.5°	2131.1	2128.5	2115.6	2113.1	2144.1	2159.6	2154.3	2172.5	2203.5	2247.4	2262.9
30°	2014.9	2020.1	2002.0	1996.8	2022.7	2048.5	2045.9	2064.0	2094.9	2136.3	2146.7
32.5°	1875.4	1880.5	1878.0	1870.3	1893.5	1906.4	1914.1	1927.1	1952.9	1996.8	2007.2
35°	1743.6	1735.9	1725.6	1725.6	1748.8	1769.5	1761.7	1777.2	1803.1	1847.0	1849.6
37.5°	1580.9	1578.3	1573.2	1568.0	1593.8	1599.0	1601.6	1611.9	1635.2	1671.3	1666.2
40°	1410.4	1413.0	1410.4	1400.0	1415.6	1436.3	1433.6	1438.9	1459.5	1485.3	1477.6
42.5°	1250.2	1250.2	1250.2	1239.9	1258.0	1268.4	1273.5	1270.9	1276.1	1299.4	1289.0
45°	1097.9	1100.4	1097.9	1095.3	1097.9	1103.0	1097.9	1095.3	1095.3	1103.0	1087.5
47.5°	966.1	966.1	958.4	950.6	958.4	960.9	953.2	945.5	942.8	940.3	914.5
50°	847.3	844.7	842.2	829.3	836.9	839.5	829.3	824.0	813.7	800.8	769.8
52.5°	744.0	741.4	738.8	725.8	731.1	733.6	723.3	712.9	700.0	689.7	651.0
55°	656.1	653.5	653.5	645.8	640.6	645.8	635.5	627.7	609.6	596.7	558.0
57.5°	581.2	581.2	576.0	568.3	570.9	570.9	560.6	550.2	534.7	519.2	488.3
60°	516.6	516.6	516.6	508.9	508.9	508.9	503.7	493.4	480.5	465.0	434.0
62.5°	465.0	465.0	462.3	454.7	457.2	457.2	452.1	441.8	428.8	418.5	387.5
65°	423.6	423.6	423.6	415.9	415.9	418.5	413.3	403.0	392.6	379.7	351.3
67.5°	372.0	369.4	369.4	364.2	366.8	369.4	364.2	356.5	343.6	335.8	310.0
70°	307.4	310.0	312.5	304.9	307.4	307.4	304.9	297.1	289.3	281.6	258.4
72.5°	250.6	250.6	248.0	245.4	245.4	248.0	242.8	235.1	229.9	224.8	206.6
75°	191.2	188.5	191.2	186.0	186.0	186.0	180.8	178.3	175.6	167.9	155.0
77.5°	139.5	136.9	136.9	131.8	134.4	134.4	131.8	126.6	121.4	118.8	108.5
80°	95.5	95.5	95.5	93.0	93.0	90.4	90.4	87.9	82.6	80.1	75.0
82.5°	64.6	64.6	64.6	62.0	62.0	62.0	59.4	56.8	54.3	51.7	46.5
85°	41.4	41.4	41.4	38.7	38.7	38.7	36.1	36.1	33.6	31.0	25.8
87.5°	23.2	23.2	23.2	20.7	20.7	20.7	20.7	20.7	18.1	15.5	12.9
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°	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0
2.5°	2691.6	2655.5	2678.7	2678.7	2671.1	2691.6	2704.7	2714.9	2712.3	2689.1	2686.5
5°	2671.1	2640.0	2665.8	2668.4	2660.7	2689.1	2707.2	2720.1	2722.7	2702.0	2704.7
7.5°	2655.5	2629.7	2663.3	2673.6	2671.1	2696.9	2717.6	2738.1	2748.5	2733.0	2735.6
10°	2647.8	2627.1	2663.3	2678.7	2681.4	2709.8	2740.8	2769.2	2782.1	2771.7	2779.5
12.5°	2637.5	2624.6	2665.8	2689.1	2699.4	2727.9	2766.6	2800.2	2820.9	2815.7	2831.2
15°	2627.1	2616.8	2665.8	2699.4	2712.3	2738.1	2782.1	2831.2	2854.5	2851.8	2872.5
17.5°	2601.3	2598.7	2650.4	2686.5	2704.7	2735.6	2776.9	2836.3	2859.6	2864.8	2890.6
20°	2560.0	2560.0	2616.8	2655.5	2676.2	2704.7	2756.3	2813.1	2841.5	2846.7	2875.1
22.5°	2503.1	2508.2	2562.5	2601.3	2632.3	2652.9	2707.2	2766.6	2792.4	2800.2	2831.2
25°	2428.2	2433.4	2485.0	2523.8	2557.4	2580.6	2632.3	2686.5	2717.6	2725.2	2748.5
27.5°	2330.1	2340.4	2389.5	2428.2	2456.6	2472.1	2526.4	2583.2	2606.4	2614.2	2637.5
30°	2216.4	2219.0	2268.0	2301.6	2330.1	2343.0	2389.5	2448.9	2467.0	2474.7	2508.2
32.5°	2076.9	2074.3	2120.8	2151.8	2175.0	2190.6	2239.6	2278.4	2296.5	2309.4	2327.5
35°	1909.0	1906.4	1940.0	1976.2	1994.2	1999.4	2048.5	2089.8	2100.2	2110.5	2133.8
37.5°	1720.4	1720.4	1748.8	1767.0	1787.5	1795.3	1818.6	1865.1	1883.2	1880.5	1898.6
40°	1521.5	1511.2	1531.8	1550.0	1555.1	1557.6	1580.9	1617.0	1630.0	1630.0	1642.9
42.5°	1312.3	1296.7	1299.4	1309.7	1314.8	1296.7	1312.3	1335.5	1327.7	1338.1	1340.7
45°	1090.1	1066.8	1056.5	1033.2	1038.5	1020.3	1010.0	1015.2	1012.7	986.8	992.0
47.5°	909.3	868.0	849.8	816.3	808.6	787.9	775.0	751.7	731.1	731.1	718.1
50°	756.9	715.6	679.3	640.6	627.7	609.6	581.2	550.2	534.7	519.2	506.3
52.5°	635.5	591.6	547.6	506.3	488.3	465.0	426.2	395.3	366.8	351.3	335.8
55°	537.3	488.3	441.8	397.8	374.6	351.3	312.5	276.4	242.8	222.1	209.2
57.5°	462.3	415.9	366.8	320.3	299.6	273.8	232.5	193.7	162.7	139.5	126.6
60°	408.2	361.7	317.8	268.6	248.0	222.1	178.3	142.0	111.1	90.4	75.0
62.5°	361.7	320.3	273.8	229.9	209.2	183.4	142.0	105.9	77.5	56.8	43.9
65°	328.1	286.7	248.0	204.1	186.0	160.2	121.4	87.9	62.0	43.9	31.0
67.5°	289.3	253.1	214.4	178.3	160.2	139.5	103.3	75.0	51.7	36.1	25.8
70°	242.8	214.4	180.8	147.3	134.4	116.2	85.2	62.0	41.4	28.4	20.7
72.5°	193.7	170.5	144.7	118.8	108.5	90.4	69.7	49.1	31.0	20.7	15.5
75°	147.3	129.1	108.5	90.4	80.1	69.7	51.7	36.1	23.2	15.5	10.3
77.5°	100.8	93.0	77.5	62.0	56.8	49.1	33.6	23.2	15.5	10.3	5.1
80°	69.7	62.0	51.7	41.4	36.1	31.0	20.7	15.5	7.8	5.1	2.6
82.5°	43.9	36.1	31.0	25.8	23.2	18.1	12.9	7.8	5.1	2.6	2.6
85°	23.2	20.7	18.1	12.9	12.9	10.3	7.8	5.1	2.6	0.0	0.0
87.5°	12.9	10.3	7.8	5.1	5.1	2.6	2.6	2.6	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°	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0
2.5°	2717.6	2717.6	2714.9	2745.9	2709.8	2745.9	2727.9	2745.9	2720.1	2717.6	2720.1
5°	2738.1	2745.9	2748.5	2776.9	2743.4	2787.3	2771.7	2787.3	2769.2	2774.4	2782.1
7.5°	2779.5	2792.4	2789.9	2826.0	2792.4	2841.5	2831.2	2854.5	2836.3	2841.5	2851.8
10°	2826.0	2841.5	2844.1	2880.3	2849.2	2908.6	2895.7	2921.6	2906.1	2913.9	2926.8
12.5°	2880.3	2898.3	2901.0	2942.2	2908.6	2970.7	2962.9	2988.7	2975.8	2983.6	2999.1
15°	2921.6	2947.4	2952.6	2993.9	2957.8	3022.3	3017.2	3050.8	3030.1	3043.0	3055.9
17.5°	2942.2	2965.5	2975.8	3014.6	2983.6	3048.2	3043.0	3071.5	3055.9	3068.8	3084.4
20°	2929.3	2957.8	2965.5	3004.3	2973.3	3037.9	3030.1	3058.5	3043.0	3053.3	3068.8
22.5°	2882.8	2911.3	2921.6	2957.8	2929.3	2988.7	2986.2	3012.0	2991.4	3004.3	3017.2
25°	2800.2	2831.2	2836.3	2869.9	2838.9	2901.0	2895.7	2924.2	2908.6	2916.4	2934.5
27.5°	2681.4	2717.6	2725.2	2753.7	2730.5	2782.1	2782.1	2805.3	2787.3	2787.3	2805.3
30°	2539.3	2575.4	2580.6	2603.9	2583.2	2629.7	2632.3	2655.5	2627.1	2642.6	2645.2
32.5°	2366.2	2389.5	2404.9	2425.6	2394.6	2454.1	2446.3	2464.4	2448.9	2448.9	2461.8
35°	2157.0	2185.4	2193.2	2219.0	2193.2	2239.6	2239.6	2250.0	2234.4	2234.4	2255.1
37.5°	1929.7	1950.4	1952.9	1978.7	1958.0	1996.8	1994.2	2002.0	1986.5	1996.8	1996.8
40°	1663.5	1679.1	1684.2	1697.1	1694.6	1723.0	1720.4	1725.6	1717.8	1720.4	1725.6
42.5°	1353.6	1374.2	1384.6	1394.9	1379.5	1418.2	1410.4	1418.2	1415.6	1418.2	1426.0
45°	997.1	1012.7	1020.3	1022.9	1017.8	1041.0	1059.1	1043.6	1046.2	1041.0	1051.4
47.5°	720.7	723.3	718.1	733.6	720.7	731.1	736.2	738.8	723.3	720.7	731.1
50°	493.4	506.3	488.3	495.9	493.4	503.7	498.6	501.2	485.6	493.4	488.3
52.5°	328.1	325.4	320.3	322.9	317.8	317.8	317.8	322.9	312.5	307.4	302.2
55°	198.9	193.7	183.4	180.8	180.8	183.4	178.3	173.1	173.1	170.5	170.5
57.5°	116.2	108.5	103.3	100.8	95.5	93.0	90.4	90.4	85.2	85.2	85.2
60°	64.6	56.8	51.7	46.5	46.5	43.9	41.4	38.7	38.7	38.7	36.1
62.5°	33.6	28.4	23.2	20.7	20.7	18.1	15.5	15.5	15.5	15.5	12.9
65°	23.2	18.1	15.5	12.9	12.9	10.3	10.3	10.3	10.3	10.3	10.3
67.5°	18.1	15.5	12.9	10.3	10.3	10.3	7.8	7.8	7.8	7.8	7.8
70°	15.5	10.3	10.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
72.5°	10.3	10.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	7.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	2.6	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: P685025

CATALOG NUMBER: LX6C45D010 EX6459035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0	2702.0
2.5°	2743.4	2740.8	2743.4	2748.5	2738.1	2769.2	2753.7	2769.2
5°	2802.8	2805.3	2808.0	2815.7	2802.8	2841.5	2820.9	2844.1
7.5°	2880.3	2882.8	2885.4	2893.2	2885.4	2924.2	2901.0	2921.6
10°	2960.4	2965.5	2965.5	2978.4	2970.7	3006.8	2991.4	3017.2
12.5°	3035.2	3040.4	3045.6	3053.3	3048.2	3086.9	3074.0	3094.7
15°	3094.7	3105.0	3107.6	3117.9	3112.7	3154.1	3138.5	3159.2
17.5°	3123.1	3133.4	3133.4	3146.3	3141.2	3185.1	3164.4	3187.7
20°	3107.6	3115.3	3117.9	3130.9	3125.6	3169.6	3148.9	3177.3
22.5°	3058.5	3061.1	3063.7	3076.6	3074.0	3112.7	3094.7	3112.7
25°	2968.1	2975.8	2973.3	2983.6	2983.6	3014.6	2993.9	3009.4
27.5°	2838.9	2846.7	2846.7	2859.6	2849.2	2880.3	2859.6	2882.8
30°	2681.4	2689.1	2684.0	2694.3	2684.0	2714.9	2699.4	2707.2
32.5°	2492.8	2492.8	2495.3	2497.9	2492.8	2521.2	2505.7	2521.2
35°	2268.0	2273.2	2275.8	2278.4	2273.2	2293.9	2275.8	2286.1
37.5°	2014.9	2027.8	2025.2	2027.8	2020.1	2045.9	2030.4	2035.6
40°	1743.6	1743.6	1741.0	1746.3	1738.5	1759.2	1748.8	1753.9
42.5°	1428.5	1436.3	1426.0	1438.9	1418.2	1446.6	1436.3	1428.5
45°	1072.1	1061.7	1059.1	1061.7	1053.9	1056.5	1064.3	1059.1
47.5°	731.1	731.1	725.8	718.1	728.5	731.1	720.7	720.7
50°	490.8	490.8	485.6	483.0	488.3	485.6	480.5	488.3
52.5°	312.5	302.2	302.2	307.4	302.2	297.1	304.9	299.6
55°	170.5	165.3	165.3	170.5	165.3	165.3	162.7	167.9
57.5°	82.6	85.2	82.6	82.6	82.6	82.6	80.1	82.6
60°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
62.5°	15.5	15.5	12.9	12.9	12.9	12.9	12.9	12.9
65°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
67.5°	7.8	7.8	7.8	7.8	7.8	10.3	7.8	7.8
70°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
72.5°	7.8	7.8	10.3	10.3	10.3	10.3	10.3	10.3
75°	5.1	5.1	5.1	2.6	2.6	2.6	2.6	2.6
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)