

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: P684401

Luminaire Tested: **LX6C50D010 EX6C509727 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684401
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 EX6C509727 6LCSWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

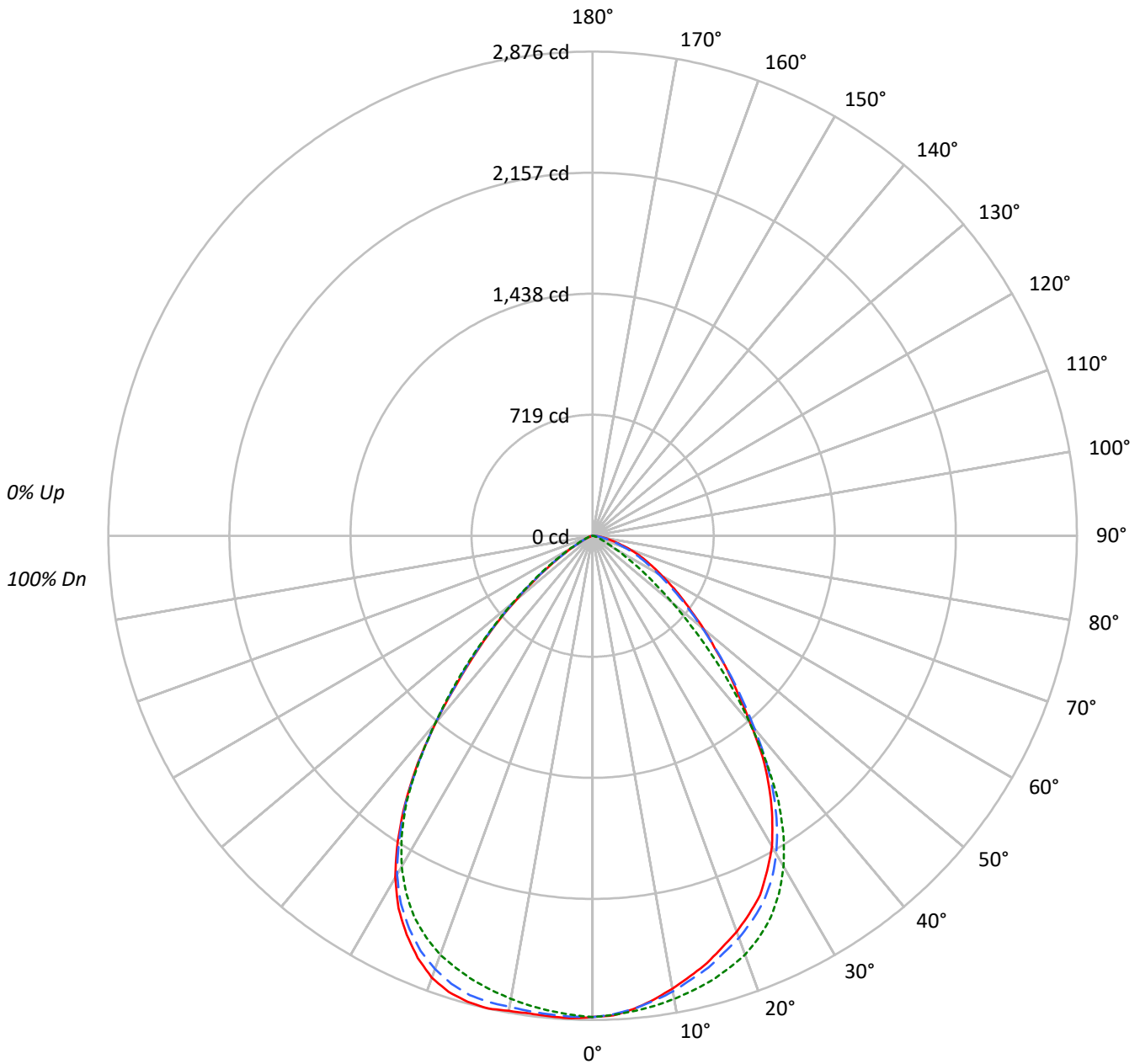
Lumens per Lamp: N/A
Luminaire Lumens: 4796.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V):
Input Current (A_{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				
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°	156720	156720	156720
5°	155222	155981	157693
10°	152023	155480	159516
15°	149115	155188	162634
20°	146021	154480	162945
25°	142424	151400	158084
30°	134850	143585	148390
35°	122456	128700	129851
40°	104517	104016	103523
45°	87792	77884	75481
50°	73320	52706	50062
55°	61713	32333	29371
60°	52244	17038	14758
65°	45232	8963	7160
70°	37619	5530	3863
75°	27811	3664	2203
80°	21815	2178	1105
85°	17423	2201	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	5.6
10°-20°	771.4	16.1
20°-30°	1139.1	23.8
30°-40°	1174.0	24.5
40°-50°	810.8	16.9
50°-60°	399.7	8.3
60°-70°	161.9	3.4
70°-80°	57.7	1.2
80°-90°	11.9	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°	2179.9	45.5
0°-40°	3353.9	69.9
0°-60°	4564.4	95.2
0°-90°	4796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4796.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2859	2859	2859	2859	2859	
5°	2821	2821	2834	2855	2866	266
15°	2627	2655	2734	2824	2866	740
25°	2355	2400	2503	2576	2614	1076
35°	1830	1875	1923	1934	1940	1134
45°	1132	1139	1005	991	974	875
55°	646	622	338	318	307	583
65°	349	314	69	55	55	346
75°	131	110	17	10	10	147
85°	28	21	4	0	0	34
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°	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8
2.5°	2851.8	2841.5	2848.4	2834.5	2851.8	2834.5	2838.0	2841.5	2838.0	2841.5	2844.9
5°	2820.7	2810.3	2820.7	2803.5	2820.7	2810.3	2810.3	2813.8	2813.8	2817.2	2820.7
7.5°	2779.3	2768.9	2779.3	2762.0	2782.7	2772.4	2772.4	2779.3	2775.8	2779.3	2786.2
10°	2731.0	2717.1	2727.5	2717.1	2737.9	2724.0	2731.0	2731.0	2731.0	2741.3	2748.3
12.5°	2679.2	2665.3	2679.2	2661.9	2682.6	2672.3	2675.7	2686.1	2689.5	2696.5	2699.8
15°	2627.4	2610.1	2617.0	2606.6	2627.4	2617.0	2620.5	2634.3	2634.3	2644.7	2655.1
17.5°	2561.8	2547.9	2561.8	2547.9	2565.2	2558.3	2565.2	2575.6	2575.6	2586.0	2596.2
20°	2503.0	2489.3	2499.6	2489.3	2510.0	2499.6	2503.0	2516.9	2520.3	2530.7	2541.1
22.5°	2430.6	2420.2	2427.1	2416.8	2437.5	2430.6	2434.1	2447.8	2451.4	2458.2	2475.5
25°	2354.6	2333.9	2344.2	2337.4	2358.1	2347.7	2354.6	2368.4	2375.4	2385.7	2399.5
27.5°	2244.1	2233.8	2240.6	2240.6	2257.9	2247.6	2251.0	2264.9	2275.2	2285.6	2302.8
30°	2130.3	2113.0	2119.9	2123.3	2137.2	2130.3	2137.2	2150.9	2154.4	2168.2	2182.0
32.5°	1985.3	1978.2	1992.1	1985.3	1992.1	1992.1	1995.5	2005.9	2012.8	2019.8	2037.1
35°	1829.8	1816.1	1829.8	1823.0	1840.2	1829.8	1840.2	1850.6	1850.6	1864.4	1874.8
37.5°	1660.7	1643.4	1650.3	1650.3	1657.2	1653.8	1653.8	1671.1	1674.4	1684.8	1695.2
40°	1460.5	1453.5	1467.4	1463.9	1467.4	1467.4	1470.7	1481.1	1488.0	1491.5	1495.0
42.5°	1280.9	1284.3	1287.8	1287.8	1287.8	1287.8	1287.8	1301.6	1298.2	1308.6	1311.9
45°	1132.4	1118.6	1125.5	1122.1	1132.4	1122.1	1132.4	1142.8	1135.9	1146.3	1139.3
47.5°	980.5	980.5	980.5	977.1	984.0	980.5	987.4	990.9	990.9	990.9	987.4
50°	859.7	849.4	852.7	852.7	856.2	852.7	859.7	863.1	863.1	856.2	842.5
52.5°	742.2	738.9	738.9	745.8	745.8	742.2	742.2	742.2	742.2	732.0	725.0
55°	645.7	638.8	642.1	642.1	642.1	642.1	645.7	642.1	642.1	631.8	621.5
57.5°	559.3	552.4	552.4	552.4	555.8	552.4	552.4	552.4	548.9	538.5	524.8
60°	476.5	473.0	476.5	476.5	479.9	476.5	476.5	476.5	469.6	459.2	445.3
62.5°	407.4	407.4	407.4	410.8	410.8	407.4	407.4	403.9	400.5	386.6	372.9
65°	348.7	345.2	348.7	348.7	352.1	352.1	348.7	345.2	341.8	328.0	314.2
67.5°	290.0	286.5	290.0	290.0	293.4	290.0	290.0	290.0	279.7	272.8	258.9
70°	234.7	231.4	231.4	231.4	234.7	227.9	231.4	231.4	224.5	214.1	200.2
72.5°	179.6	179.6	179.6	179.6	179.6	179.6	176.1	176.1	169.2	158.8	151.9
75°	131.3	131.3	134.6	134.6	131.3	131.3	131.3	127.8	124.2	117.4	110.5
77.5°	96.7	96.7	96.7	96.7	93.2	93.2	93.2	89.7	86.3	82.8	76.0
80°	69.1	69.1	69.1	65.6	69.1	65.6	65.6	65.6	58.7	55.2	51.8
82.5°	48.3	44.9	44.9	44.9	44.9	44.9	44.9	41.4	41.4	38.0	34.5
85°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	24.1	20.8	20.8
87.5°	13.8	17.3	17.3	17.3	17.3	17.3	17.3	13.8	13.8	13.8	10.4
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°	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8
2.5°	2844.9	2844.9	2851.8	2841.5	2858.8	2848.4	2844.9	2862.1	2851.8	2848.4	2855.3
5°	2820.7	2824.2	2827.6	2820.7	2838.0	2827.6	2827.6	2844.9	2838.0	2834.5	2844.9
7.5°	2789.7	2793.1	2799.9	2796.6	2810.3	2803.5	2807.0	2824.2	2817.2	2817.2	2827.6
10°	2751.7	2758.5	2765.5	2765.5	2782.7	2775.8	2775.8	2796.6	2789.7	2793.1	2807.0
12.5°	2706.7	2717.1	2727.5	2731.0	2748.3	2737.9	2741.3	2765.5	2762.0	2765.5	2779.3
15°	2658.4	2672.3	2682.6	2682.6	2703.4	2693.0	2703.4	2727.5	2720.6	2734.4	2751.7
17.5°	2603.3	2617.0	2630.8	2634.3	2655.1	2648.0	2661.9	2686.1	2686.1	2693.0	2713.7
20°	2551.5	2568.7	2575.6	2586.0	2606.6	2603.3	2610.1	2637.8	2637.8	2648.0	2668.8
22.5°	2482.4	2499.6	2513.4	2523.8	2541.1	2541.1	2551.5	2575.6	2575.6	2582.5	2603.3
25°	2406.4	2427.1	2437.5	2447.8	2465.1	2461.6	2472.0	2492.8	2496.1	2503.0	2523.8
27.5°	2309.7	2327.0	2340.9	2347.7	2371.9	2358.1	2368.4	2392.7	2389.2	2396.0	2413.3
30°	2189.0	2206.2	2220.0	2220.0	2240.6	2240.6	2251.0	2261.4	2261.4	2268.3	2282.2
32.5°	2047.3	2068.1	2068.1	2078.5	2092.2	2078.5	2092.2	2106.0	2099.1	2109.5	2119.9
35°	1885.0	1895.4	1898.9	1898.9	1909.3	1905.8	1902.3	1912.7	1905.8	1923.1	1933.5
37.5°	1688.3	1702.1	1695.2	1702.1	1698.6	1688.3	1688.3	1705.6	1691.7	1695.2	1705.6
40°	1498.4	1498.4	1495.0	1477.7	1481.1	1470.7	1467.4	1470.7	1457.0	1453.5	1467.4
42.5°	1301.6	1298.2	1287.8	1263.7	1267.0	1249.8	1236.0	1236.0	1229.1	1225.6	1229.1
45°	1125.5	1115.1	1097.9	1070.3	1063.3	1049.6	1021.9	1015.0	1004.6	1004.6	1008.1
47.5°	963.2	949.5	921.8	890.8	873.5	856.2	828.6	818.2	800.9	794.1	800.9
50°	828.6	804.4	769.9	725.0	707.7	687.1	659.4	642.1	624.9	618.0	614.5
52.5°	704.3	669.8	635.3	580.1	566.2	545.6	507.5	490.2	473.0	459.2	459.2
55°	597.2	566.2	517.9	466.1	445.3	424.7	386.6	362.5	345.2	338.3	331.5
57.5°	500.6	466.1	421.2	366.0	345.2	324.6	286.5	262.4	245.1	234.7	227.9
60°	421.2	383.3	338.3	290.0	265.9	245.1	207.2	182.9	165.7	155.4	148.4
62.5°	345.2	314.2	269.3	224.5	203.7	182.9	151.9	127.8	110.5	103.6	93.2
65°	290.0	258.9	217.5	179.6	162.3	141.5	114.0	93.2	79.5	69.1	62.2
67.5°	234.7	210.6	176.1	141.5	124.2	110.5	86.3	69.1	55.2	48.3	44.9
70°	186.4	162.3	134.6	107.0	96.7	82.8	65.6	48.3	41.4	34.5	31.0
72.5°	138.1	120.9	100.1	79.5	69.1	62.2	44.9	38.0	27.7	24.1	20.8
75°	100.1	86.3	72.4	55.2	48.3	44.9	34.5	24.1	20.8	17.3	13.8
77.5°	69.1	62.2	48.3	38.0	34.5	31.0	24.1	17.3	13.8	10.4	10.4
80°	44.9	38.0	31.0	24.1	24.1	20.8	13.8	10.4	10.4	6.9	6.9
82.5°	27.7	24.1	20.8	17.3	13.8	13.8	10.4	6.9	6.9	3.5	3.5
85°	17.3	13.8	10.4	10.4	6.9	6.9	6.9	3.5	3.5	3.5	3.5
87.5°	6.9	6.9	6.9	3.5	3.5	3.5	3.5	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°	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8
2.5°	2855.3	2855.3	2862.1	2851.8	2858.8	2858.8	2865.6	2851.8	2858.8	2862.1	2869.0
5°	2841.5	2844.9	2851.8	2848.4	2851.8	2851.8	2858.8	2841.5	2855.3	2855.3	2865.6
7.5°	2827.6	2827.6	2834.5	2831.1	2838.0	2841.5	2848.4	2834.5	2848.4	2848.4	2858.8
10°	2810.3	2810.3	2820.7	2817.2	2827.6	2831.1	2841.5	2827.6	2841.5	2844.9	2855.3
12.5°	2786.2	2789.7	2799.9	2799.9	2810.3	2817.2	2827.6	2820.7	2838.0	2841.5	2855.3
15°	2758.5	2765.5	2779.3	2775.8	2786.2	2796.6	2810.3	2799.9	2824.2	2831.1	2844.9
17.5°	2724.0	2731.0	2741.3	2741.3	2751.7	2758.5	2775.8	2768.9	2789.7	2793.1	2810.3
20°	2672.3	2682.6	2696.5	2693.0	2703.4	2710.2	2724.0	2717.1	2737.9	2744.8	2762.0
22.5°	2610.1	2617.0	2627.4	2627.4	2637.8	2644.7	2658.4	2648.0	2668.8	2672.3	2686.1
25°	2527.3	2534.2	2541.1	2544.6	2554.8	2558.3	2565.2	2558.3	2575.6	2579.1	2596.2
27.5°	2420.2	2423.7	2434.1	2434.1	2441.0	2444.3	2454.7	2441.0	2465.1	2465.1	2475.5
30°	2292.4	2289.1	2302.8	2295.9	2302.8	2302.8	2313.2	2306.3	2323.6	2316.7	2327.0
32.5°	2123.3	2130.3	2130.3	2123.3	2137.2	2133.7	2133.7	2126.8	2137.2	2140.5	2147.4
35°	1926.6	1936.8	1936.8	1940.3	1943.8	1933.5	1936.8	1916.2	1933.5	1936.8	1940.3
37.5°	1712.5	1702.1	1709.0	1698.6	1715.9	1695.2	1695.2	1681.4	1695.2	1695.2	1698.6
40°	1467.4	1463.9	1470.7	1463.9	1460.5	1457.0	1450.1	1439.7	1453.5	1446.6	1457.0
42.5°	1236.0	1232.5	1232.5	1225.6	1222.2	1222.2	1215.4	1208.3	1205.0	1205.0	1222.2
45°	997.8	1004.6	997.8	994.4	1001.3	994.4	997.8	984.0	990.9	984.0	990.9
47.5°	797.6	800.9	794.1	787.2	797.6	787.2	787.2	776.8	790.7	790.7	783.7
50°	618.0	614.5	607.6	614.5	611.1	611.1	611.1	600.7	607.6	597.2	604.2
52.5°	455.7	452.3	452.3	448.8	452.3	448.8	448.8	445.3	445.3	441.9	445.3
55°	331.5	328.0	321.1	321.1	321.1	324.6	321.1	317.7	317.7	314.2	317.7
57.5°	224.5	217.5	217.5	217.5	217.5	214.1	214.1	210.6	214.1	210.6	214.1
60°	145.0	145.0	138.1	138.1	138.1	138.1	138.1	134.6	138.1	138.1	138.1
62.5°	89.7	89.7	86.3	82.8	86.3	82.8	82.8	82.8	86.3	82.8	86.3
65°	58.7	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
67.5°	41.4	38.0	38.0	38.0	38.0	38.0	38.0	34.5	38.0	38.0	38.0
70°	27.7	27.7	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
72.5°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
75°	13.8	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
77.5°	10.4	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	6.9	6.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	3.5	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	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P684401

CATALOG NUMBER: LX6C50D010 EX6C509727 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8
2.5°	2858.8	2862.1	2855.3	2858.8	2851.8	2858.8	2862.1	2869.0
5°	2851.8	2855.3	2848.4	2855.3	2848.4	2855.3	2858.8	2865.6
7.5°	2844.9	2851.8	2844.9	2851.8	2844.9	2851.8	2855.3	2862.1
10°	2844.9	2855.3	2848.4	2858.8	2848.4	2855.3	2862.1	2865.6
12.5°	2844.9	2855.3	2851.8	2858.8	2855.3	2862.1	2869.0	2875.9
15°	2838.0	2848.4	2841.5	2851.8	2848.4	2851.8	2865.6	2865.6
17.5°	2799.9	2810.3	2810.3	2817.2	2817.2	2827.6	2834.5	2841.5
20°	2751.7	2762.0	2758.5	2768.9	2768.9	2779.3	2786.2	2793.1
22.5°	2679.2	2693.0	2689.5	2699.8	2696.5	2703.4	2717.1	2713.7
25°	2586.0	2603.3	2599.7	2606.6	2603.3	2603.3	2610.1	2613.5
27.5°	2472.0	2482.4	2478.9	2485.9	2478.9	2485.9	2492.8	2496.1
30°	2323.6	2330.5	2327.0	2330.5	2327.0	2333.9	2337.4	2344.2
32.5°	2144.0	2154.4	2144.0	2150.9	2147.4	2147.4	2161.3	2154.4
35°	1929.9	1933.5	1936.8	1936.8	1929.9	1933.5	1940.3	1940.3
37.5°	1691.7	1709.0	1688.3	1698.6	1695.2	1695.2	1695.2	1705.6
40°	1443.2	1446.6	1439.7	1439.7	1439.7	1436.2	1450.1	1446.6
42.5°	1208.3	1211.8	1208.3	1198.1	1201.5	1201.5	1211.8	1198.1
45°	980.5	987.4	984.0	984.0	977.1	977.1	980.5	973.6
47.5°	776.8	783.7	773.4	776.8	769.9	776.8	773.4	780.3
50°	590.3	597.2	593.9	597.2	597.2	590.3	600.7	587.0
52.5°	441.9	445.3	441.9	438.4	435.1	435.1	441.9	438.4
55°	314.2	310.7	310.7	310.7	314.2	314.2	310.7	307.3
57.5°	210.6	210.6	207.2	207.2	210.6	203.7	207.2	203.7
60°	134.6	134.6	134.6	134.6	131.3	134.6	134.6	134.6
62.5°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
65°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
67.5°	34.5	38.0	38.0	38.0	34.5	34.5	34.5	34.5
70°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
72.5°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
75°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	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)