

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: P684378

Luminaire Tested: **LX6C50D010 EX6C509030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684378
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 EX6C509030 6LCSWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

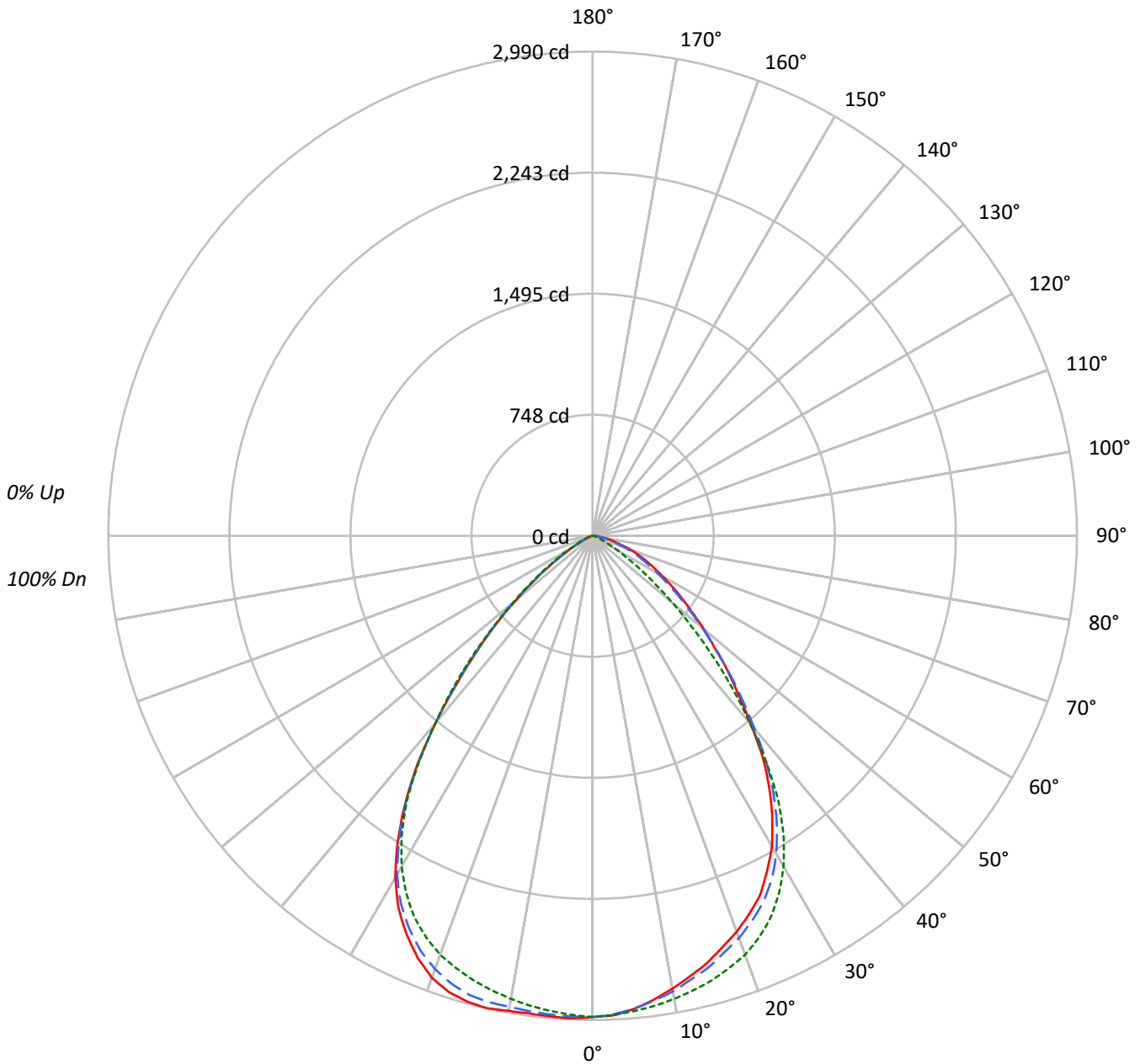
Lumens per Lamp: N/A
Luminaire Lumens: 4986.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	162926	162926	162926
5°	161374	162161	163944
10°	158047	161637	165840
15°	155024	161335	169082
20°	151808	160606	169397
25°	148067	157400	164344
30°	140192	149276	154271
35°	127308	133799	134997
40°	108654	108131	107623
45°	91273	80970	78473
50°	76228	54796	52041
55°	64151	33614	30537
60°	54316	17718	15350
65°	47022	9314	7446
70°	39109	5754	4023
75°	28912	3813	2288
80°	22667	2273	1137
85°	18052	2264	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	5.6
10°-20°	802.0	16.1
20°-30°	1184.2	23.8
30°-40°	1220.5	24.5
40°-50°	843.0	16.9
50°-60°	415.5	8.3
60°-70°	168.4	3.4
70°-80°	60.0	1.2
80°-90°	12.4	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°	2266.3	45.5
0°-40°	3486.8	69.9
0°-60°	4745.2	95.2
0°-90°	4986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4986.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2972	2972	2972	2972	2972	
5°	2932	2932	2947	2968	2979	277
15°	2732	2760	2843	2936	2979	769
25°	2448	2495	2602	2678	2717	1119
35°	1902	1949	1999	2010	2017	1179
45°	1177	1184	1044	1030	1012	910
55°	671	646	352	330	320	606
65°	362	327	72	57	57	360
75°	136	115	18	11	11	153
85°	29	22	4	0	0	35
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°	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0
2.5°	2964.7	2954.1	2961.2	2946.8	2964.7	2946.8	2950.4	2954.1	2950.4	2954.1	2957.6
5°	2932.5	2921.7	2932.5	2914.5	2932.5	2921.7	2921.7	2925.3	2925.3	2928.8	2932.5
7.5°	2889.4	2878.6	2889.4	2871.5	2892.9	2882.3	2882.3	2889.4	2885.8	2889.4	2896.6
10°	2839.2	2824.8	2835.6	2824.8	2846.4	2831.9	2839.2	2839.2	2839.2	2849.9	2857.2
12.5°	2785.3	2770.9	2785.3	2767.4	2788.9	2778.2	2781.7	2792.5	2796.0	2803.3	2806.8
15°	2731.5	2713.5	2720.7	2709.9	2731.5	2720.7	2724.3	2738.6	2738.6	2749.4	2760.2
17.5°	2663.3	2648.9	2663.3	2648.9	2666.8	2659.7	2666.8	2677.6	2677.6	2688.4	2699.1
20°	2602.2	2587.9	2598.7	2587.9	2609.5	2598.7	2602.2	2616.6	2620.1	2630.9	2641.7
22.5°	2526.9	2516.1	2523.2	2512.6	2534.0	2526.9	2530.5	2544.8	2548.5	2555.6	2573.6
25°	2447.9	2426.3	2437.1	2430.0	2451.6	2440.8	2447.9	2462.2	2469.5	2480.2	2494.6
27.5°	2333.0	2322.2	2329.4	2329.4	2347.4	2336.7	2340.2	2354.6	2365.3	2376.1	2394.1
30°	2214.7	2196.7	2203.9	2207.4	2221.8	2214.7	2221.8	2236.1	2239.8	2254.1	2268.4
32.5°	2063.9	2056.6	2071.1	2063.9	2071.1	2071.1	2074.6	2085.4	2092.5	2099.8	2117.8
35°	1902.3	1888.0	1902.3	1895.2	1913.1	1902.3	1913.1	1923.9	1923.9	1938.2	1949.0
37.5°	1726.5	1708.5	1715.7	1715.7	1722.8	1719.3	1719.3	1737.3	1740.8	1751.6	1762.4
40°	1518.3	1511.0	1525.5	1521.8	1525.5	1525.5	1529.0	1539.8	1546.9	1550.6	1554.2
42.5°	1331.7	1335.2	1338.8	1338.8	1338.8	1338.8	1338.8	1353.1	1349.6	1360.4	1363.9
45°	1177.3	1162.9	1170.1	1166.6	1177.3	1166.6	1177.3	1188.1	1180.9	1191.7	1184.4
47.5°	1019.3	1019.3	1019.3	1015.8	1023.0	1019.3	1026.5	1030.1	1030.1	1030.1	1026.5
50°	893.8	883.0	886.5	886.5	890.2	886.5	893.8	897.3	897.3	890.2	875.9
52.5°	771.7	768.1	768.1	775.3	775.3	771.7	771.7	771.7	771.7	761.0	753.7
55°	671.2	664.1	667.6	667.6	667.6	667.6	671.2	667.6	667.6	656.8	646.1
57.5°	581.5	574.3	574.3	574.3	577.8	574.3	574.3	574.3	570.7	559.9	545.6
60°	495.4	491.7	495.4	495.4	498.9	495.4	495.4	495.4	488.2	477.4	463.0
62.5°	423.6	423.6	423.6	427.1	427.1	423.6	423.6	419.9	416.4	402.0	387.6
65°	362.5	358.9	362.5	362.5	366.1	366.1	362.5	358.9	355.4	340.9	326.6
67.5°	301.5	297.9	301.5	301.5	305.0	301.5	301.5	301.5	290.7	283.6	269.1
70°	244.0	240.5	240.5	240.5	244.0	236.9	240.5	240.5	233.4	222.6	208.1
72.5°	186.7	186.7	186.7	186.7	186.7	186.7	183.0	183.0	175.9	165.1	157.9
75°	136.5	136.5	140.0	140.0	136.5	136.5	136.5	132.8	129.2	122.0	114.9
77.5°	100.6	100.6	100.6	100.6	96.9	96.9	96.9	93.3	89.8	86.1	79.0
80°	71.8	71.8	71.8	68.2	71.8	68.2	68.2	68.2	61.0	57.4	53.9
82.5°	50.2	46.7	46.7	46.7	46.7	46.7	46.7	43.1	43.1	39.5	35.9
85°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	25.1	21.6	21.6
87.5°	14.3	18.0	18.0	18.0	18.0	18.0	18.0	14.3	14.3	14.3	10.8
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°	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0
2.5°	2957.6	2957.6	2964.7	2954.1	2972.0	2961.2	2957.6	2975.5	2964.7	2961.2	2968.4
5°	2932.5	2936.1	2939.6	2932.5	2950.4	2939.6	2939.6	2957.6	2950.4	2946.8	2957.6
7.5°	2900.2	2903.7	2910.9	2907.4	2921.7	2914.5	2918.2	2936.1	2928.8	2928.8	2939.6
10°	2860.7	2867.8	2875.1	2875.1	2892.9	2885.8	2885.8	2907.4	2900.2	2903.7	2918.2
12.5°	2814.0	2824.8	2835.6	2839.2	2857.2	2846.4	2849.9	2875.1	2871.5	2875.1	2889.4
15°	2763.8	2778.2	2788.9	2788.9	2810.5	2799.7	2810.5	2835.6	2828.4	2842.7	2860.7
17.5°	2706.4	2720.7	2735.0	2738.6	2760.2	2753.0	2767.4	2792.5	2792.5	2799.7	2821.3
20°	2652.5	2670.5	2677.6	2688.4	2709.9	2706.4	2713.5	2742.3	2742.3	2753.0	2774.5
22.5°	2580.7	2598.7	2613.0	2623.8	2641.7	2641.7	2652.5	2677.6	2677.6	2684.8	2706.4
25°	2501.8	2523.2	2534.0	2544.8	2562.8	2559.1	2569.9	2591.5	2595.0	2602.2	2623.8
27.5°	2401.2	2419.2	2433.6	2440.8	2465.9	2451.6	2462.2	2487.5	2483.8	2491.0	2508.9
30°	2275.7	2293.6	2307.9	2307.9	2329.4	2329.4	2340.2	2351.0	2351.0	2358.2	2372.6
32.5°	2128.4	2150.0	2150.0	2160.8	2175.1	2160.8	2175.1	2189.4	2182.3	2193.1	2203.9
35°	1959.7	1970.5	1974.1	1974.1	1984.9	1981.3	1977.7	1988.5	1981.3	1999.3	2010.0
37.5°	1755.2	1769.5	1762.4	1769.5	1765.9	1755.2	1755.2	1773.2	1758.7	1762.4	1773.2
40°	1557.7	1557.7	1554.2	1536.3	1539.8	1529.0	1525.5	1529.0	1514.7	1511.0	1525.5
42.5°	1353.1	1349.6	1338.8	1313.7	1317.2	1299.3	1285.0	1285.0	1277.8	1274.2	1277.8
45°	1170.1	1159.3	1141.3	1112.7	1105.4	1091.1	1062.4	1055.2	1044.4	1044.4	1048.1
47.5°	1001.4	987.1	958.3	926.1	908.1	890.2	861.4	850.6	832.7	825.5	832.7
50°	861.4	836.3	800.4	753.7	735.7	714.3	685.5	667.6	649.6	642.5	638.8
52.5°	732.2	696.3	660.4	603.1	588.6	567.2	527.6	509.7	491.7	477.4	477.4
55°	620.9	588.6	538.4	484.6	463.0	441.5	402.0	376.9	358.9	351.7	344.6
57.5°	520.5	484.6	437.9	380.5	358.9	337.4	297.9	272.8	254.8	244.0	236.9
60°	437.9	398.4	351.7	301.5	276.4	254.8	215.4	190.2	172.2	161.6	154.3
62.5°	358.9	326.6	279.9	233.4	211.8	190.2	157.9	132.8	114.9	107.7	96.9
65°	301.5	269.1	226.1	186.7	168.7	147.1	118.5	96.9	82.6	71.8	64.7
67.5°	244.0	218.9	183.0	147.1	129.2	114.9	89.8	71.8	57.4	50.2	46.7
70°	193.8	168.7	140.0	111.2	100.6	86.1	68.2	50.2	43.1	35.9	32.3
72.5°	143.6	125.7	104.1	82.6	71.8	64.7	46.7	39.5	28.7	25.1	21.6
75°	104.1	89.8	75.3	57.4	50.2	46.7	35.9	25.1	21.6	18.0	14.3
77.5°	71.8	64.7	50.2	39.5	35.9	32.3	25.1	18.0	14.3	10.8	10.8
80°	46.7	39.5	32.3	25.1	25.1	21.6	14.3	10.8	10.8	7.2	7.2
82.5°	28.7	25.1	21.6	18.0	14.3	14.3	10.8	7.2	7.2	3.6	3.6
85°	18.0	14.3	10.8	10.8	7.2	7.2	7.2	3.6	3.6	3.6	3.6
87.5°	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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°	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0
2.5°	2968.4	2968.4	2975.5	2964.7	2972.0	2972.0	2979.2	2964.7	2972.0	2975.5	2982.7
5°	2954.1	2957.6	2964.7	2961.2	2964.7	2964.7	2972.0	2954.1	2968.4	2968.4	2979.2
7.5°	2939.6	2939.6	2946.8	2943.3	2950.4	2954.1	2961.2	2946.8	2961.2	2961.2	2972.0
10°	2921.7	2921.7	2932.5	2928.8	2939.6	2943.3	2954.1	2939.6	2954.1	2957.6	2968.4
12.5°	2896.6	2900.2	2910.9	2910.9	2921.7	2928.8	2939.6	2932.5	2950.4	2954.1	2968.4
15°	2867.8	2875.1	2889.4	2885.8	2896.6	2907.4	2921.7	2910.9	2936.1	2943.3	2957.6
17.5°	2831.9	2839.2	2849.9	2849.9	2860.7	2867.8	2885.8	2878.6	2900.2	2903.7	2921.7
20°	2778.2	2788.9	2803.3	2799.7	2810.5	2817.6	2831.9	2824.8	2846.4	2853.5	2871.5
22.5°	2713.5	2720.7	2731.5	2731.5	2742.3	2749.4	2763.8	2753.0	2774.5	2778.2	2792.5
25°	2627.4	2634.6	2641.7	2645.4	2656.0	2659.7	2666.8	2659.7	2677.6	2681.3	2699.1
27.5°	2516.1	2519.7	2530.5	2530.5	2537.7	2541.2	2552.0	2537.7	2562.8	2562.8	2573.6
30°	2383.3	2379.7	2394.1	2386.9	2394.1	2394.1	2404.9	2397.7	2415.6	2408.5	2419.2
32.5°	2207.4	2214.7	2214.7	2207.4	2221.8	2218.2	2218.2	2211.0	2221.8	2225.3	2232.5
35°	2002.9	2013.6	2013.6	2017.2	2020.8	2010.0	2013.6	1992.1	2010.0	2013.6	2017.2
37.5°	1780.3	1769.5	1776.7	1765.9	1783.8	1762.4	1762.4	1748.1	1762.4	1762.4	1765.9
40°	1525.5	1521.8	1529.0	1521.8	1518.3	1514.7	1507.5	1496.7	1511.0	1503.9	1514.7
42.5°	1285.0	1281.3	1281.3	1274.2	1270.7	1270.7	1263.5	1256.2	1252.7	1252.7	1270.7
45°	1037.3	1044.4	1037.3	1033.8	1040.9	1033.8	1037.3	1023.0	1030.1	1023.0	1030.1
47.5°	829.2	832.7	825.5	818.4	829.2	818.4	818.4	807.6	822.0	822.0	814.7
50°	642.5	638.8	631.7	638.8	635.3	635.3	635.3	624.5	631.7	620.9	628.2
52.5°	473.8	470.3	470.3	466.6	470.3	466.6	466.6	463.0	463.0	459.5	463.0
55°	344.6	340.9	333.8	333.8	333.8	337.4	333.8	330.3	330.3	326.6	330.3
57.5°	233.4	226.1	226.1	226.1	226.1	222.6	222.6	218.9	222.6	218.9	222.6
60°	150.8	150.8	143.6	143.6	143.6	143.6	143.6	140.0	143.6	143.6	143.6
62.5°	93.3	93.3	89.8	86.1	89.8	86.1	86.1	86.1	89.8	86.1	89.8
65°	61.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
67.5°	43.1	39.5	39.5	39.5	39.5	39.5	39.5	35.9	39.5	39.5	39.5
70°	28.7	28.7	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
72.5°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
75°	14.3	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
77.5°	10.8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
80°	7.2	7.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	3.6	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	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P684378

CATALOG NUMBER: LX6C50D010 EX6C509030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0	2972.0
2.5°	2972.0	2975.5	2968.4	2972.0	2964.7	2972.0	2975.5	2982.7
5°	2964.7	2968.4	2961.2	2968.4	2961.2	2968.4	2972.0	2979.2
7.5°	2957.6	2964.7	2957.6	2964.7	2957.6	2964.7	2968.4	2975.5
10°	2957.6	2968.4	2961.2	2972.0	2961.2	2968.4	2975.5	2979.2
12.5°	2957.6	2968.4	2964.7	2972.0	2968.4	2975.5	2982.7	2989.8
15°	2950.4	2961.2	2954.1	2964.7	2961.2	2964.7	2979.2	2979.2
17.5°	2910.9	2921.7	2921.7	2928.8	2928.8	2939.6	2946.8	2954.1
20°	2860.7	2871.5	2867.8	2878.6	2878.6	2889.4	2896.6	2903.7
22.5°	2785.3	2799.7	2796.0	2806.8	2803.3	2810.5	2824.8	2821.3
25°	2688.4	2706.4	2702.7	2709.9	2706.4	2706.4	2713.5	2717.0
27.5°	2569.9	2580.7	2577.1	2584.4	2577.1	2584.4	2591.5	2595.0
30°	2415.6	2422.8	2419.2	2422.8	2419.2	2426.3	2430.0	2437.1
32.5°	2229.0	2239.8	2229.0	2236.1	2232.5	2232.5	2246.9	2239.8
35°	2006.4	2010.0	2013.6	2013.6	2006.4	2010.0	2017.2	2017.2
37.5°	1758.7	1776.7	1755.2	1765.9	1762.4	1762.4	1762.4	1773.2
40°	1500.4	1503.9	1496.7	1496.7	1496.7	1493.1	1507.5	1503.9
42.5°	1256.2	1259.9	1256.2	1245.6	1249.1	1249.1	1259.9	1245.6
45°	1019.3	1026.5	1023.0	1023.0	1015.8	1015.8	1019.3	1012.2
47.5°	807.6	814.7	804.0	807.6	800.4	807.6	804.0	811.2
50°	613.7	620.9	617.4	620.9	620.9	613.7	624.5	610.2
52.5°	459.5	463.0	459.5	455.8	452.3	452.3	459.5	455.8
55°	326.6	323.0	323.0	323.0	326.6	326.6	323.0	319.5
57.5°	218.9	218.9	215.4	215.4	218.9	211.8	215.4	211.8
60°	140.0	140.0	140.0	140.0	136.5	140.0	140.0	140.0
62.5°	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
65°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
67.5°	35.9	39.5	39.5	39.5	35.9	35.9	35.9	35.9
70°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
72.5°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
75°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	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)