

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: P563967

Luminaire Tested: **LX6C50D010 EX6C509030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563967
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, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

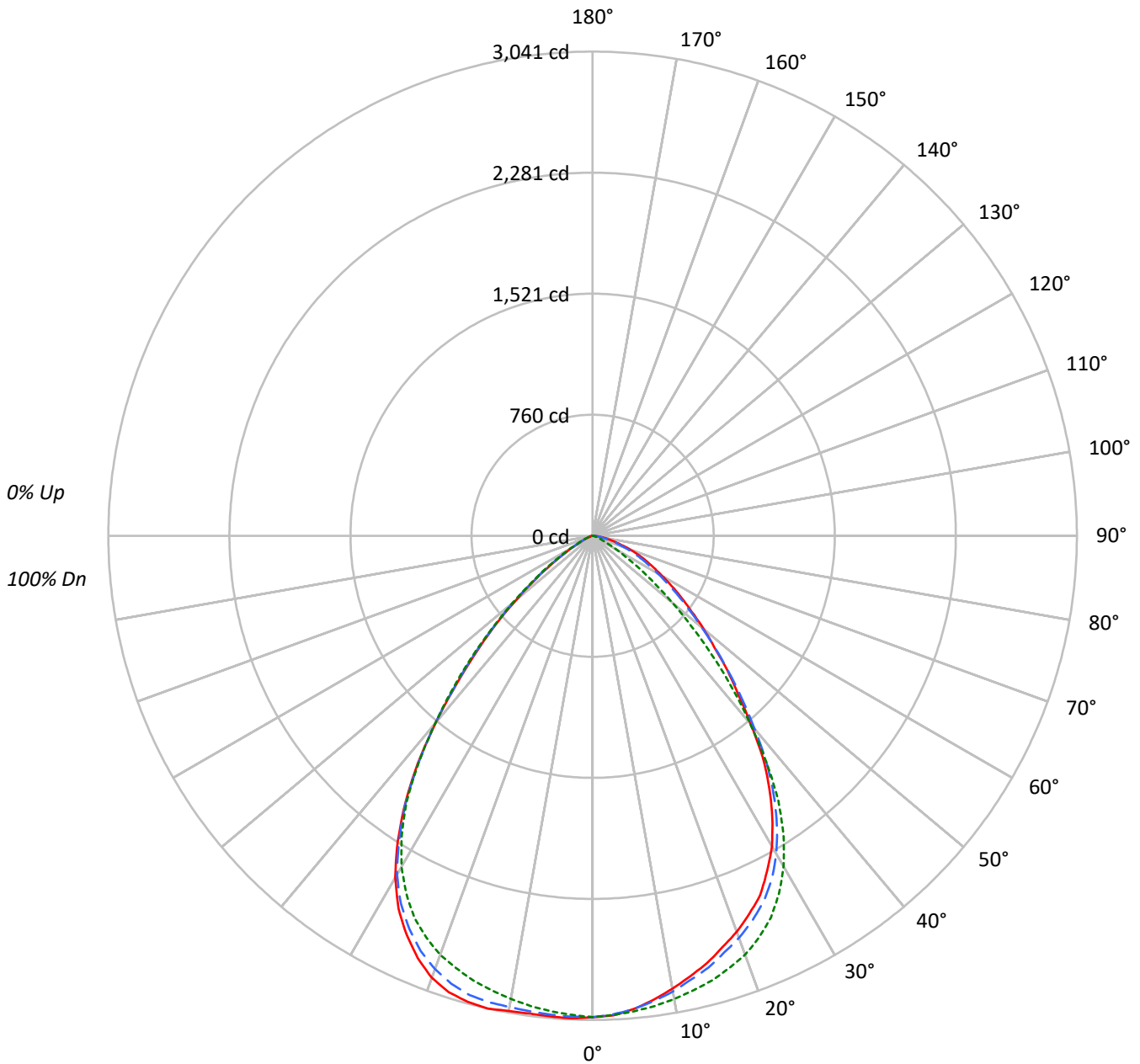
Lumens per Lamp: N/A
Luminaire Lumens: 5071.8 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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								
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90								
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64								
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58								
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52								
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47								
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43								
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40								
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	165727	165727	165727
5°	164148	164951	166762
10°	160763	164415	168690
15°	157691	164110	171987
20°	154422	163371	172308
25°	150614	160110	167169
30°	142604	151846	156923
35°	129496	136101	137319
40°	110521	109992	109477
45°	92839	82365	79822
50°	77541	55742	52936
55°	65250	34188	31062
60°	55248	18025	15613
65°	47826	9469	7575
70°	39782	5850	4087
75°	29399	3876	2330
80°	23046	2305	1168
85°	18367	2327	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	5.6
10°-20°	815.8	16.1
20°-30°	1204.6	23.8
30°-40°	1241.5	24.5
40°-50°	857.5	16.9
50°-60°	422.6	8.3
60°-70°	171.3	3.4
70°-80°	61.1	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°	2305.3	45.5
0°-40°	3546.7	69.9
0°-60°	4826.8	95.2
0°-90°	5071.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5071.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3023	3023	3023	3023	3023	
5°	2983	2983	2998	3020	3030	282
15°	2778	2808	2892	2987	3030	782
25°	2490	2538	2647	2724	2764	1138
35°	1935	1982	2034	2045	2052	1199
45°	1198	1205	1062	1048	1030	926
55°	683	657	358	336	325	617
65°	369	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°	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1
2.5°	3015.7	3004.9	3012.1	2997.5	3015.7	2997.5	3001.1	3004.9	3001.1	3004.9	3008.5
5°	2982.9	2972.0	2982.9	2964.6	2982.9	2972.0	2972.0	2975.6	2975.6	2979.2	2982.9
7.5°	2939.1	2928.1	2939.1	2920.9	2942.7	2931.9	2931.9	2939.1	2935.4	2939.1	2946.4
10°	2888.0	2873.4	2884.4	2873.4	2895.4	2880.6	2888.0	2888.0	2888.0	2898.9	2906.3
12.5°	2833.2	2818.6	2833.2	2815.0	2836.9	2826.0	2829.5	2840.5	2844.1	2851.5	2855.1
15°	2778.5	2760.2	2767.5	2756.5	2778.5	2767.5	2771.2	2785.7	2785.7	2796.7	2807.7
17.5°	2709.1	2694.5	2709.1	2694.5	2712.7	2705.4	2712.7	2723.7	2723.7	2734.6	2745.5
20°	2647.0	2632.4	2643.4	2632.4	2654.4	2643.4	2647.0	2661.6	2665.2	2676.2	2687.1
22.5°	2570.4	2559.4	2566.6	2555.8	2577.6	2570.4	2574.0	2588.6	2592.3	2599.6	2617.9
25°	2490.0	2468.0	2479.0	2471.8	2493.8	2482.8	2490.0	2504.5	2512.0	2522.9	2537.5
27.5°	2373.1	2362.1	2369.5	2369.5	2387.8	2376.9	2380.5	2395.1	2406.0	2417.0	2435.3
30°	2252.8	2234.5	2241.8	2245.4	2260.0	2252.8	2260.0	2274.6	2278.3	2292.9	2307.4
32.5°	2099.4	2092.0	2106.7	2099.4	2106.7	2106.7	2110.3	2121.3	2128.5	2135.9	2154.2
35°	1935.0	1920.5	1935.0	1927.8	1946.0	1935.0	1946.0	1957.0	1957.0	1971.5	1982.5
37.5°	1756.2	1737.9	1745.2	1745.2	1752.4	1748.9	1748.9	1767.2	1770.7	1781.7	1792.7
40°	1544.4	1537.0	1551.7	1548.0	1551.7	1551.7	1555.3	1566.3	1573.5	1577.3	1580.9
42.5°	1354.6	1358.2	1361.8	1361.8	1361.8	1361.8	1361.8	1376.4	1372.8	1383.8	1387.4
45°	1197.5	1182.9	1190.2	1186.7	1197.5	1186.7	1197.5	1208.5	1201.2	1212.2	1204.8
47.5°	1036.8	1036.8	1036.8	1033.3	1040.6	1036.8	1044.2	1047.8	1047.8	1047.8	1044.2
50°	909.2	898.2	901.7	901.7	905.5	901.7	909.2	912.7	912.7	905.5	891.0
52.5°	785.0	781.3	781.3	788.6	788.6	785.0	785.0	785.0	785.0	774.1	766.7
55°	682.7	675.5	679.1	679.1	679.1	679.1	682.7	679.1	679.1	668.1	657.2
57.5°	591.5	584.2	584.2	584.2	587.7	584.2	584.2	584.2	580.5	569.5	555.0
60°	503.9	500.2	503.9	503.9	507.5	503.9	503.9	503.9	496.6	485.6	471.0
62.5°	430.9	430.9	430.9	434.4	434.4	430.9	430.9	427.1	423.6	408.9	394.3
65°	368.7	365.1	368.7	368.7	372.4	372.4	368.7	365.1	361.5	346.8	332.2
67.5°	306.7	303.0	306.7	306.7	310.2	306.7	306.7	306.7	295.7	288.5	273.7
70°	248.2	244.6	244.6	244.6	248.2	241.0	244.6	244.6	237.4	226.4	211.7
72.5°	189.9	189.9	189.9	189.9	189.9	189.9	186.1	186.1	178.9	167.9	160.6
75°	138.8	138.8	142.4	142.4	138.8	138.8	138.8	135.1	131.4	124.1	116.9
77.5°	102.3	102.3	102.3	102.3	98.6	98.6	98.6	94.9	91.3	87.6	80.4
80°	73.0	73.0	73.0	69.4	73.0	69.4	69.4	69.4	62.0	58.4	54.8
82.5°	51.1	47.5	47.5	47.5	47.5	47.5	47.5	43.8	43.8	40.2	36.5
85°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	25.5	22.0	22.0
87.5°	14.5	18.3	18.3	18.3	18.3	18.3	18.3	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°	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1
2.5°	3008.5	3008.5	3015.7	3004.9	3023.1	3012.1	3008.5	3026.7	3015.7	3012.1	3019.5
5°	2982.9	2986.6	2990.2	2982.9	3001.1	2990.2	2990.2	3008.5	3001.1	2997.5	3008.5
7.5°	2950.1	2953.6	2961.0	2957.4	2972.0	2964.6	2968.4	2986.6	2979.2	2979.2	2990.2
10°	2909.9	2917.1	2924.6	2924.6	2942.7	2935.4	2935.4	2957.4	2950.1	2953.6	2968.4
12.5°	2862.4	2873.4	2884.4	2888.0	2906.3	2895.4	2898.9	2924.6	2920.9	2924.6	2939.1
15°	2811.3	2826.0	2836.9	2836.9	2858.8	2847.9	2858.8	2884.4	2877.0	2891.6	2909.9
17.5°	2753.0	2767.5	2782.0	2785.7	2807.7	2800.4	2815.0	2840.5	2840.5	2847.9	2869.8
20°	2698.1	2716.4	2723.7	2734.6	2756.5	2753.0	2760.2	2789.5	2789.5	2800.4	2822.2
22.5°	2625.1	2643.4	2657.9	2668.9	2687.1	2687.1	2698.1	2723.7	2723.7	2731.0	2753.0
25°	2544.8	2566.6	2577.6	2588.6	2606.9	2603.1	2614.1	2636.1	2639.6	2647.0	2668.9
27.5°	2442.5	2460.8	2475.5	2482.8	2508.3	2493.8	2504.5	2530.3	2526.5	2533.8	2552.1
30°	2314.8	2333.0	2347.6	2347.6	2369.5	2369.5	2380.5	2391.4	2391.4	2398.8	2413.4
32.5°	2165.0	2187.0	2187.0	2198.0	2212.5	2198.0	2212.5	2227.1	2219.8	2230.8	2241.8
35°	1993.4	2004.4	2008.1	2008.1	2019.0	2015.4	2011.7	2022.7	2015.4	2033.7	2044.6
37.5°	1785.4	1799.9	1792.7	1799.9	1796.3	1785.4	1785.4	1803.7	1788.9	1792.7	1803.7
40°	1584.5	1584.5	1580.9	1562.7	1566.3	1555.3	1551.7	1555.3	1540.8	1537.0	1551.7
42.5°	1376.4	1372.8	1361.8	1336.3	1339.9	1321.6	1307.1	1307.1	1299.8	1296.1	1299.8
45°	1190.2	1179.2	1160.9	1131.8	1124.4	1109.9	1080.7	1073.3	1062.4	1062.4	1066.1
47.5°	1018.6	1004.1	974.8	942.0	923.7	905.5	876.2	865.2	847.0	839.7	847.0
50°	876.2	850.7	814.2	766.7	748.4	726.6	697.3	679.1	660.8	653.6	649.8
52.5°	744.8	708.3	671.8	613.5	598.7	577.0	536.7	518.5	500.2	485.6	485.6
55°	631.6	598.7	547.7	492.9	471.0	449.1	408.9	383.4	365.1	357.7	350.5
57.5°	529.5	492.9	445.4	387.0	365.1	343.2	303.0	277.5	259.2	248.2	241.0
60°	445.4	405.3	357.7	306.7	281.2	259.2	219.1	193.5	175.2	164.4	157.0
62.5°	365.1	332.2	284.7	237.4	215.4	193.5	160.6	135.1	116.9	109.6	98.6
65°	306.7	273.7	230.0	189.9	171.6	149.6	120.5	98.6	84.0	73.0	65.8
67.5°	248.2	222.7	186.1	149.6	131.4	116.9	91.3	73.0	58.4	51.1	47.5
70°	197.1	171.6	142.4	113.1	102.3	87.6	69.4	51.1	43.8	36.5	32.9
72.5°	146.1	127.9	105.9	84.0	73.0	65.8	47.5	40.2	29.2	25.5	22.0
75°	105.9	91.3	76.6	58.4	51.1	47.5	36.5	25.5	22.0	18.3	14.5
77.5°	73.0	65.8	51.1	40.2	36.5	32.9	25.5	18.3	14.5	11.0	11.0
80°	47.5	40.2	32.9	25.5	25.5	22.0	14.5	11.0	11.0	7.3	7.3
82.5°	29.2	25.5	22.0	18.3	14.5	14.5	11.0	7.3	7.3	3.7	3.7
85°	18.3	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°	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1
2.5°	3019.5	3019.5	3026.7	3015.7	3023.1	3023.1	3030.4	3015.7	3023.1	3026.7	3034.0
5°	3004.9	3008.5	3015.7	3012.1	3015.7	3015.7	3023.1	3004.9	3019.5	3019.5	3030.4
7.5°	2990.2	2990.2	2997.5	2993.9	3001.1	3004.9	3012.1	2997.5	3012.1	3012.1	3023.1
10°	2972.0	2972.0	2982.9	2979.2	2990.2	2993.9	3004.9	2990.2	3004.9	3008.5	3019.5
12.5°	2946.4	2950.1	2961.0	2961.0	2972.0	2979.2	2990.2	2982.9	3001.1	3004.9	3019.5
15°	2917.1	2924.6	2939.1	2935.4	2946.4	2957.4	2972.0	2961.0	2986.6	2993.9	3008.5
17.5°	2880.6	2888.0	2898.9	2898.9	2909.9	2917.1	2935.4	2928.1	2950.1	2953.6	2972.0
20°	2826.0	2836.9	2851.5	2847.9	2858.8	2866.1	2880.6	2873.4	2895.4	2902.6	2920.9
22.5°	2760.2	2767.5	2778.5	2778.5	2789.5	2796.7	2811.3	2800.4	2822.2	2826.0	2840.5
25°	2672.6	2679.9	2687.1	2690.9	2701.7	2705.4	2712.7	2705.4	2723.7	2727.4	2745.5
27.5°	2559.4	2563.0	2574.0	2574.0	2581.3	2584.9	2595.9	2581.3	2606.9	2606.9	2617.9
30°	2424.3	2420.6	2435.3	2428.0	2435.3	2435.3	2446.3	2438.9	2457.1	2449.9	2460.8
32.5°	2245.4	2252.8	2252.8	2245.4	2260.0	2256.4	2256.4	2249.0	2260.0	2263.6	2270.9
35°	2037.3	2048.2	2048.2	2051.9	2055.6	2044.6	2048.2	2026.4	2044.6	2048.2	2051.9
37.5°	1810.9	1799.9	1807.3	1796.3	1814.5	1792.7	1792.7	1778.2	1792.7	1792.7	1796.3
40°	1551.7	1548.0	1555.3	1548.0	1544.4	1540.8	1533.4	1522.4	1537.0	1529.8	1540.8
42.5°	1307.1	1303.3	1303.3	1296.1	1292.6	1292.6	1285.2	1277.8	1274.2	1274.2	1292.6
45°	1055.1	1062.4	1055.1	1051.6	1058.8	1051.6	1055.1	1040.6	1047.8	1040.6	1047.8
47.5°	843.5	847.0	839.7	832.5	843.5	832.5	832.5	821.5	836.1	836.1	828.7
50°	653.6	649.8	642.6	649.8	646.2	646.2	646.2	635.2	642.6	631.6	639.0
52.5°	481.9	478.4	478.4	474.6	478.4	474.6	474.6	471.0	471.0	467.4	471.0
55°	350.5	346.8	339.5	339.5	339.5	343.2	339.5	336.0	336.0	332.2	336.0
57.5°	237.4	230.0	230.0	230.0	230.0	226.4	226.4	222.7	226.4	222.7	226.4
60°	153.4	153.4	146.1	146.1	146.1	146.1	146.1	142.4	146.1	146.1	146.1
62.5°	94.9	94.9	91.3	87.6	91.3	87.6	87.6	87.6	91.3	87.6	91.3
65°	62.0	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
67.5°	43.8	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
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: P563967

CATALOG NUMBER: LX6C50D010 EX6C509030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1	3023.1
2.5°	3023.1	3026.7	3019.5	3023.1	3015.7	3023.1	3026.7	3034.0
5°	3015.7	3019.5	3012.1	3019.5	3012.1	3019.5	3023.1	3030.4
7.5°	3008.5	3015.7	3008.5	3015.7	3008.5	3015.7	3019.5	3026.7
10°	3008.5	3019.5	3012.1	3023.1	3012.1	3019.5	3026.7	3030.4
12.5°	3008.5	3019.5	3015.7	3023.1	3019.5	3026.7	3034.0	3041.2
15°	3001.1	3012.1	3004.9	3015.7	3012.1	3015.7	3030.4	3030.4
17.5°	2961.0	2972.0	2972.0	2979.2	2979.2	2990.2	2997.5	3004.9
20°	2909.9	2920.9	2917.1	2928.1	2928.1	2939.1	2946.4	2953.6
22.5°	2833.2	2847.9	2844.1	2855.1	2851.5	2858.8	2873.4	2869.8
25°	2734.6	2753.0	2749.2	2756.5	2753.0	2753.0	2760.2	2763.7
27.5°	2614.1	2625.1	2621.4	2628.9	2621.4	2628.9	2636.1	2639.6
30°	2457.1	2464.5	2460.8	2464.5	2460.8	2468.0	2471.8	2479.0
32.5°	2267.3	2278.3	2267.3	2274.6	2270.9	2270.9	2285.5	2278.3
35°	2040.9	2044.6	2048.2	2048.2	2040.9	2044.6	2051.9	2051.9
37.5°	1788.9	1807.3	1785.4	1796.3	1792.7	1792.7	1792.7	1803.7
40°	1526.2	1529.8	1522.4	1522.4	1522.4	1518.8	1533.4	1529.8
42.5°	1277.8	1281.6	1277.8	1267.0	1270.6	1270.6	1281.6	1267.0
45°	1036.8	1044.2	1040.6	1040.6	1033.3	1033.3	1036.8	1029.6
47.5°	821.5	828.7	817.8	821.5	814.2	821.5	817.8	825.2
50°	624.3	631.6	628.0	631.6	631.6	624.3	635.2	620.7
52.5°	467.4	471.0	467.4	463.6	460.1	460.1	467.4	463.6
55°	332.2	328.6	328.6	328.6	332.2	332.2	328.6	325.0
57.5°	222.7	222.7	219.1	219.1	222.7	215.4	219.1	215.4
60°	142.4	142.4	142.4	142.4	138.8	142.4	142.4	142.4
62.5°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
65°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
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)