

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: P684417

Luminaire Tested: **LX6C55D010 EX6C559030 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684417
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: LX6C55D010 EX6C559030 6LCSWH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

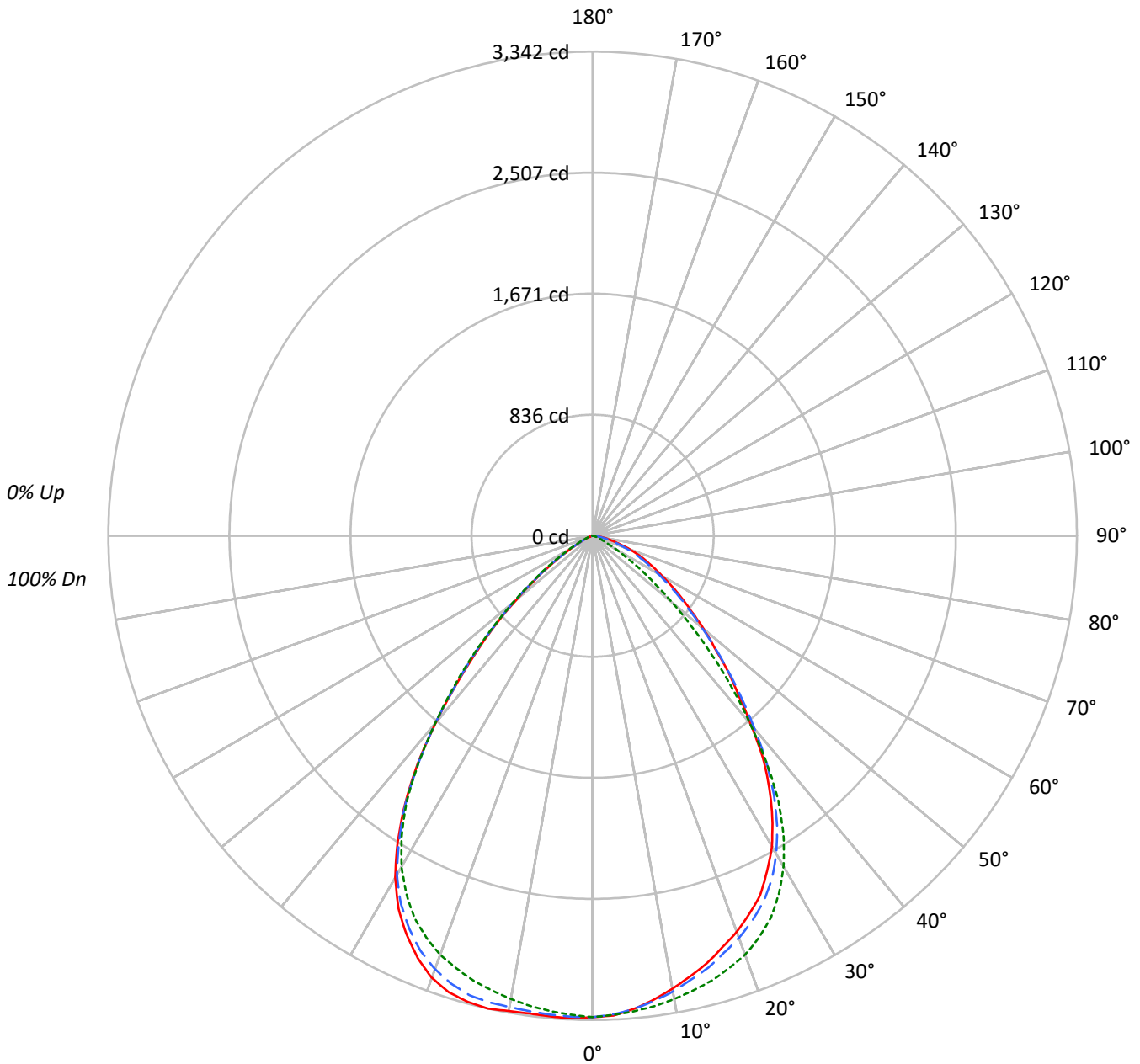
Lumens per Lamp: N/A
Luminaire Lumens: 5574.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72	72	72	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64	64	64	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	182140	182140	182140
5°	180403	181284	183276
10°	176683	180703	185395
15°	173304	180364	189019
20°	169712	179542	189378
25°	165530	175964	183730
30°	156720	166874	172463
35°	142325	149573	150918
40°	121470	120884	120311
45°	102034	90521	87722
50°	85217	61252	58181
55°	71720	37581	34140
60°	60719	19801	17159
65°	52574	10416	8315
70°	43725	6427	4504
75°	32322	4257	2563
80°	25350	2526	1294
85°	20191	2579	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	5.6
10°-20°	896.5	16.1
20°-30°	1323.9	23.8
30°-40°	1364.4	24.5
40°-50°	942.4	16.9
50°-60°	464.5	8.3
60°-70°	188.2	3.4
70°-80°	67.1	1.2
80°-90°	13.9	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°	2533.6	45.5
0°-40°	3898.0	69.9
0°-60°	5304.8	95.2
0°-90°	5574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5574.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3322	3322	3322	3322	3322	
5°	3278	3278	3294	3318	3330	310
15°	3054	3086	3178	3282	3330	860
25°	2737	2789	2909	2993	3038	1251
35°	2127	2179	2235	2247	2255	1318
45°	1316	1324	1168	1152	1132	1017
55°	750	722	393	369	357	678
65°	405	365	80	64	64	403
75°	153	128	20	12	12	171
85°	32	24	4	0	0	39
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°	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5
2.5°	3314.4	3302.4	3310.4	3294.3	3314.4	3294.3	3298.4	3302.4	3298.4	3302.4	3306.4
5°	3278.3	3266.2	3278.3	3258.2	3278.3	3266.2	3266.2	3270.3	3270.3	3274.2	3278.3
7.5°	3230.2	3218.1	3230.2	3210.1	3234.1	3222.2	3222.2	3230.2	3226.1	3230.2	3238.2
10°	3174.0	3157.9	3170.0	3157.9	3182.0	3165.9	3174.0	3174.0	3174.0	3185.9	3194.1
12.5°	3113.8	3097.7	3113.8	3093.8	3117.7	3105.8	3109.7	3121.8	3125.7	3133.9	3137.8
15°	3053.6	3033.5	3041.5	3029.5	3053.6	3041.5	3045.6	3061.6	3061.6	3073.7	3085.8
17.5°	2977.4	2961.3	2977.4	2961.3	2981.3	2973.3	2981.3	2993.4	2993.4	3005.5	3017.4
20°	2909.1	2893.1	2905.1	2893.1	2917.2	2905.1	2909.1	2925.2	2929.1	2941.2	2953.3
22.5°	2824.9	2812.8	2820.8	2808.9	2832.9	2824.9	2828.9	2844.9	2849.0	2857.0	2877.1
25°	2736.6	2712.4	2724.5	2716.5	2740.7	2728.6	2736.6	2752.6	2760.7	2772.7	2788.8
27.5°	2608.2	2596.1	2604.1	2604.1	2624.2	2612.3	2616.2	2632.3	2644.2	2656.3	2676.4
30°	2475.8	2455.8	2463.8	2467.7	2483.8	2475.8	2483.8	2499.8	2503.9	2519.9	2535.9
32.5°	2307.3	2299.2	2315.3	2307.3	2315.3	2315.3	2319.2	2331.3	2339.3	2347.4	2367.5
35°	2126.7	2110.7	2126.7	2118.7	2138.8	2126.7	2138.8	2150.8	2150.8	2166.8	2178.9
37.5°	1930.1	1910.0	1918.0	1918.0	1926.0	1922.1	1922.1	1942.1	1946.1	1958.1	1970.2
40°	1697.4	1689.2	1705.4	1701.3	1705.4	1705.4	1709.3	1721.4	1729.4	1733.5	1737.5
42.5°	1488.7	1492.6	1496.7	1496.7	1496.7	1496.7	1496.7	1512.7	1508.8	1520.8	1524.8
45°	1316.1	1300.1	1308.1	1304.2	1316.1	1304.2	1316.1	1328.2	1320.2	1332.2	1324.1
47.5°	1139.5	1139.5	1139.5	1135.6	1143.6	1139.5	1147.5	1151.6	1151.6	1151.6	1147.5
50°	999.2	987.1	991.1	991.1	995.1	991.1	999.2	1003.1	1003.1	995.1	979.1
52.5°	862.7	858.7	858.7	866.7	866.7	862.7	862.7	862.7	862.7	850.7	842.6
55°	750.4	742.4	746.3	746.3	746.3	746.3	750.4	746.3	746.3	734.2	722.3
57.5°	650.0	642.0	642.0	642.0	646.0	642.0	642.0	642.0	638.0	625.9	609.9
60°	553.8	549.7	553.8	553.8	557.7	553.8	553.8	553.8	545.8	533.7	517.6
62.5°	473.5	473.5	473.5	477.4	477.4	473.5	473.5	469.4	465.5	449.4	433.4
65°	405.3	401.2	405.3	405.3	409.2	409.2	405.3	401.2	397.3	381.2	365.2
67.5°	337.1	333.0	337.1	337.1	341.0	337.1	337.1	337.1	325.0	317.0	300.9
70°	272.8	268.9	268.9	268.9	272.8	264.8	268.9	268.9	260.9	248.8	232.7
72.5°	208.7	208.7	208.7	208.7	208.7	208.7	204.6	204.6	196.6	184.5	176.5
75°	152.6	152.6	156.5	156.5	152.6	152.6	152.6	148.5	144.4	136.4	128.4
77.5°	112.4	112.4	112.4	112.4	108.3	108.3	108.3	104.3	100.3	96.3	88.3
80°	80.3	80.3	80.3	76.2	80.3	76.2	76.2	76.2	68.2	64.1	60.2
82.5°	56.1	52.2	52.2	52.2	52.2	52.2	52.2	48.1	48.1	44.2	40.1
85°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	28.1	24.1	24.1
87.5°	16.0	20.1	20.1	20.1	20.1	20.1	20.1	16.0	16.0	16.0	12.1
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°	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5
2.5°	3306.4	3306.4	3314.4	3302.4	3322.5	3310.4	3306.4	3326.4	3314.4	3310.4	3318.4
5°	3278.3	3282.4	3286.3	3278.3	3298.4	3286.3	3286.3	3306.4	3298.4	3294.3	3306.4
7.5°	3242.2	3246.2	3254.2	3250.2	3266.2	3258.2	3262.3	3282.4	3274.2	3274.2	3286.3
10°	3198.0	3206.0	3214.2	3214.2	3234.1	3226.1	3226.1	3250.2	3242.2	3246.2	3262.3
12.5°	3145.8	3157.9	3170.0	3174.0	3194.1	3182.0	3185.9	3214.2	3210.1	3214.2	3230.2
15°	3089.7	3105.8	3117.7	3117.7	3141.9	3129.8	3141.9	3170.0	3162.0	3178.0	3198.0
17.5°	3025.6	3041.5	3057.5	3061.6	3085.8	3077.6	3093.8	3121.8	3121.8	3129.8	3154.0
20°	2965.3	2985.4	2993.4	3005.5	3029.5	3025.6	3033.5	3065.7	3065.7	3077.6	3101.8
22.5°	2885.1	2905.1	2921.1	2933.2	2953.3	2953.3	2965.3	2993.4	2993.4	3001.4	3025.6
25°	2796.8	2820.8	2832.9	2844.9	2865.0	2860.9	2873.0	2897.1	2901.1	2909.1	2933.2
27.5°	2684.4	2704.5	2720.6	2728.6	2756.7	2740.7	2752.6	2780.8	2776.7	2784.7	2804.8
30°	2544.1	2564.1	2580.1	2580.1	2604.1	2604.1	2616.2	2628.3	2628.3	2636.2	2652.4
32.5°	2379.4	2403.6	2403.6	2415.6	2431.6	2415.6	2431.6	2447.6	2439.6	2451.7	2463.8
35°	2190.8	2202.9	2207.0	2207.0	2219.0	2215.0	2210.9	2223.0	2215.0	2235.0	2247.1
37.5°	1962.2	1978.2	1970.2	1978.2	1974.1	1962.2	1962.2	1982.3	1966.1	1970.2	1982.3
40°	1741.5	1741.5	1737.5	1717.5	1721.4	1709.3	1705.4	1709.3	1693.3	1689.2	1705.4
42.5°	1512.7	1508.8	1496.7	1468.6	1472.6	1452.5	1436.5	1436.5	1428.5	1424.4	1428.5
45°	1308.1	1296.0	1275.9	1244.0	1235.8	1219.8	1187.7	1179.7	1167.6	1167.6	1171.7
47.5°	1119.5	1103.5	1071.3	1035.3	1015.2	995.1	963.0	950.9	930.9	922.9	930.9
50°	963.0	934.9	894.8	842.6	822.5	798.5	766.4	746.3	726.2	718.2	714.2
52.5°	818.6	778.5	738.3	674.2	658.0	634.1	589.8	569.8	549.7	533.7	533.7
55°	694.1	658.0	601.9	541.7	517.6	493.6	449.4	421.3	401.2	393.2	385.2
57.5°	581.8	541.7	489.5	425.4	401.2	377.2	333.0	305.0	284.9	272.8	264.8
60°	489.5	445.4	393.2	337.1	309.0	284.9	240.8	212.6	192.5	180.6	172.5
62.5°	401.2	365.2	313.0	260.9	236.8	212.6	176.5	148.5	128.4	120.4	108.3
65°	337.1	300.9	252.7	208.7	188.6	164.5	132.5	108.3	92.3	80.3	72.3
67.5°	272.8	244.7	204.6	164.5	144.4	128.4	100.3	80.3	64.1	56.1	52.2
70°	216.7	188.6	156.5	124.3	112.4	96.3	76.2	56.1	48.1	40.1	36.1
72.5°	160.5	140.5	116.3	92.3	80.3	72.3	52.2	44.2	32.1	28.1	24.1
75°	116.3	100.3	84.2	64.1	56.1	52.2	40.1	28.1	24.1	20.1	16.0
77.5°	80.3	72.3	56.1	44.2	40.1	36.1	28.1	20.1	16.0	12.1	12.1
80°	52.2	44.2	36.1	28.1	28.1	24.1	16.0	12.1	12.1	8.0	8.0
82.5°	32.1	28.1	24.1	20.1	16.0	16.0	12.1	8.0	8.0	4.1	4.1
85°	20.1	16.0	12.1	12.1	8.0	8.0	8.0	4.1	4.1	4.1	4.1
87.5°	8.0	8.0	8.0	4.1	4.1	4.1	4.1	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°	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5
2.5°	3318.4	3318.4	3326.4	3314.4	3322.5	3322.5	3330.5	3314.4	3322.5	3326.4	3334.4
5°	3302.4	3306.4	3314.4	3310.4	3314.4	3314.4	3322.5	3302.4	3318.4	3318.4	3330.5
7.5°	3286.3	3286.3	3294.3	3290.4	3298.4	3302.4	3310.4	3294.3	3310.4	3310.4	3322.5
10°	3266.2	3266.2	3278.3	3274.2	3286.3	3290.4	3302.4	3286.3	3302.4	3306.4	3318.4
12.5°	3238.2	3242.2	3254.2	3254.2	3266.2	3274.2	3286.3	3278.3	3298.4	3302.4	3318.4
15°	3206.0	3214.2	3230.2	3226.1	3238.2	3250.2	3266.2	3254.2	3282.4	3290.4	3306.4
17.5°	3165.9	3174.0	3185.9	3185.9	3198.0	3206.0	3226.1	3218.1	3242.2	3246.2	3266.2
20°	3105.8	3117.7	3133.9	3129.8	3141.9	3149.9	3165.9	3157.9	3182.0	3190.0	3210.1
22.5°	3033.5	3041.5	3053.6	3053.6	3065.7	3073.7	3089.7	3077.6	3101.8	3105.8	3121.8
25°	2937.3	2945.3	2953.3	2957.3	2969.3	2973.3	2981.3	2973.3	2993.4	2997.5	3017.4
27.5°	2812.8	2816.9	2828.9	2828.9	2836.9	2840.9	2852.9	2836.9	2865.0	2865.0	2877.1
30°	2664.3	2660.4	2676.4	2668.4	2676.4	2676.4	2688.5	2680.5	2700.5	2692.5	2704.5
32.5°	2467.7	2475.8	2475.8	2467.7	2483.8	2479.8	2479.8	2471.8	2483.8	2487.8	2495.8
35°	2239.1	2251.0	2251.0	2255.1	2259.2	2247.1	2251.0	2227.0	2247.1	2251.0	2255.1
37.5°	1990.3	1978.2	1986.2	1974.1	1994.2	1970.2	1970.2	1954.2	1970.2	1970.2	1974.1
40°	1705.4	1701.3	1709.3	1701.3	1697.4	1693.3	1685.3	1673.2	1689.2	1681.2	1693.3
42.5°	1436.5	1432.4	1432.4	1424.4	1420.5	1420.5	1412.5	1404.4	1400.4	1400.4	1420.5
45°	1159.6	1167.6	1159.6	1155.7	1163.7	1155.7	1159.6	1143.6	1151.6	1143.6	1151.6
47.5°	926.9	930.9	922.9	914.9	926.9	914.9	914.9	902.8	918.9	918.9	910.8
50°	718.2	714.2	706.2	714.2	710.3	710.3	710.3	698.2	706.2	694.1	702.3
52.5°	529.6	525.7	525.7	521.6	525.7	521.6	521.6	517.6	517.6	513.6	517.6
55°	385.2	381.2	373.2	373.2	373.2	377.2	373.2	369.2	369.2	365.2	369.2
57.5°	260.9	252.7	252.7	252.7	252.7	248.8	248.8	244.7	248.8	244.7	248.8
60°	168.5	168.5	160.5	160.5	160.5	160.5	160.5	156.5	160.5	160.5	160.5
62.5°	104.3	104.3	100.3	96.3	100.3	96.3	96.3	96.3	100.3	96.3	100.3
65°	68.2	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
67.5°	48.1	44.2	44.2	44.2	44.2	44.2	44.2	40.1	44.2	44.2	44.2
70°	32.1	32.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
72.5°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
75°	16.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
77.5°	12.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
80°	8.0	8.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	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	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P684417

CATALOG NUMBER: LX6C55D010 EX6C559030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5
2.5°	3322.5	3326.4	3318.4	3322.5	3314.4	3322.5	3326.4	3334.4
5°	3314.4	3318.4	3310.4	3318.4	3310.4	3318.4	3322.5	3330.5
7.5°	3306.4	3314.4	3306.4	3314.4	3306.4	3314.4	3318.4	3326.4
10°	3306.4	3318.4	3310.4	3322.5	3310.4	3318.4	3326.4	3330.5
12.5°	3306.4	3318.4	3314.4	3322.5	3318.4	3326.4	3334.4	3342.4
15°	3298.4	3310.4	3302.4	3314.4	3310.4	3314.4	3330.5	3330.5
17.5°	3254.2	3266.2	3266.2	3274.2	3274.2	3286.3	3294.3	3302.4
20°	3198.0	3210.1	3206.0	3218.1	3218.1	3230.2	3238.2	3246.2
22.5°	3113.8	3129.8	3125.7	3137.8	3133.9	3141.9	3157.9	3154.0
25°	3005.5	3025.6	3021.5	3029.5	3025.6	3025.6	3033.5	3037.5
27.5°	2873.0	2885.1	2881.0	2889.1	2881.0	2889.1	2897.1	2901.1
30°	2700.5	2708.5	2704.5	2708.5	2704.5	2712.4	2716.5	2724.5
32.5°	2491.8	2503.9	2491.8	2499.8	2495.8	2495.8	2511.9	2503.9
35°	2243.0	2247.1	2251.0	2251.0	2243.0	2247.1	2255.1	2255.1
37.5°	1966.1	1986.2	1962.2	1974.1	1970.2	1970.2	1970.2	1982.3
40°	1677.3	1681.2	1673.2	1673.2	1673.2	1669.2	1685.3	1681.2
42.5°	1404.4	1408.4	1404.4	1392.4	1396.4	1396.4	1408.4	1392.4
45°	1139.5	1147.5	1143.6	1143.6	1135.6	1135.6	1139.5	1131.5
47.5°	902.8	910.8	898.9	902.8	894.8	902.8	898.9	906.9
50°	686.1	694.1	690.2	694.1	694.1	686.1	698.2	682.2
52.5°	513.6	517.6	513.6	509.6	505.6	505.6	513.6	509.6
55°	365.2	361.1	361.1	361.1	365.2	365.2	361.1	357.2
57.5°	244.7	244.7	240.8	240.8	244.7	236.8	240.8	236.8
60°	156.5	156.5	156.5	156.5	152.6	156.5	156.5	156.5
62.5°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
65°	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
67.5°	40.1	44.2	44.2	44.2	40.1	40.1	40.1	40.1
70°	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
72.5°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
75°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
77.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	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)