

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: P684424

Luminaire Tested: **LX6C55D010 EX6C559035 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684424
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 EX6C559035 6LCSWH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

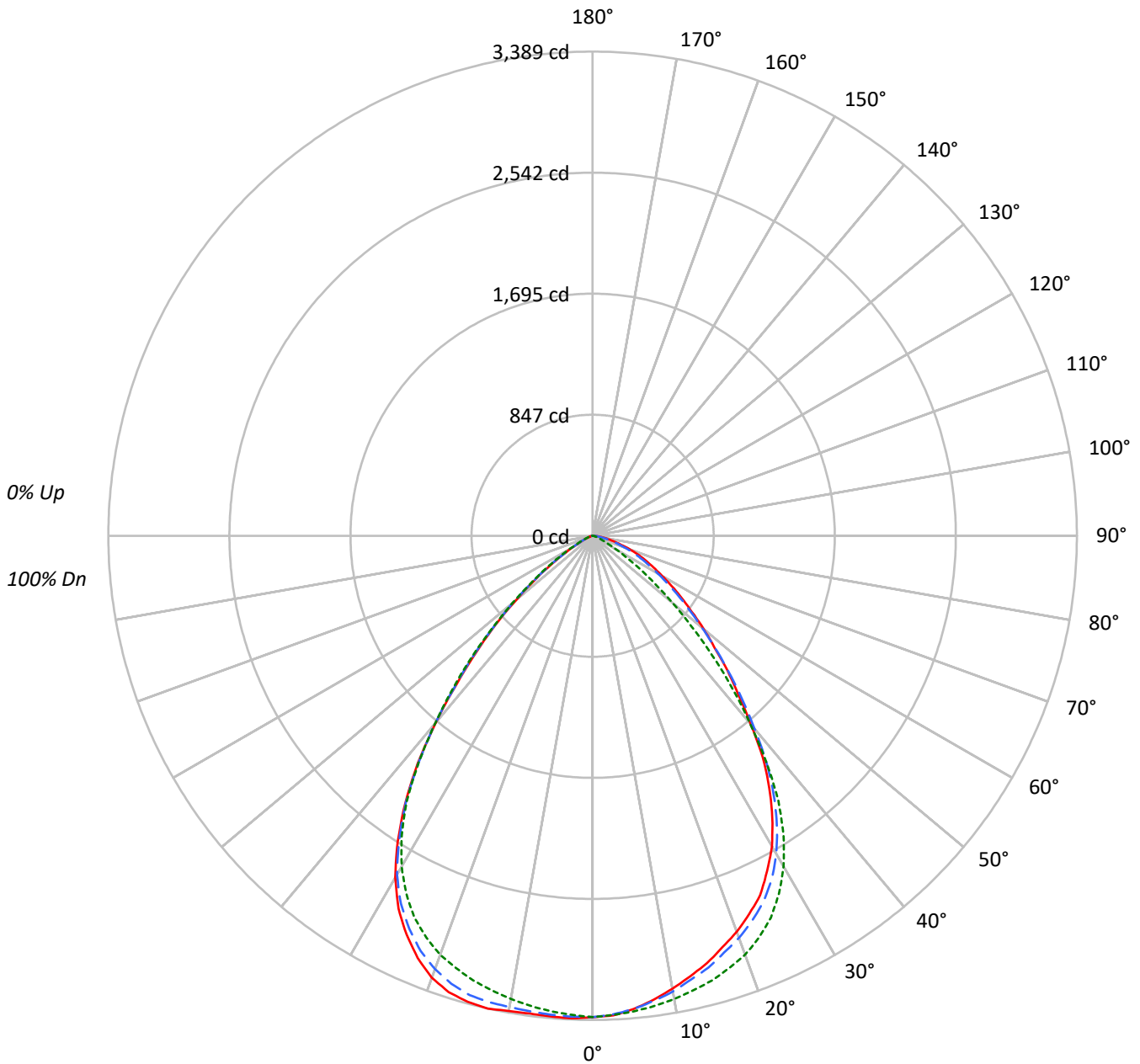
Lumens per Lamp: N/A
Luminaire Lumens: 5652.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	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°	184689	184689	184689
5°	182929	183821	185840
10°	179155	183230	187989
15°	175727	182884	191664
20°	172087	182057	192027
25°	167846	178426	186301
30°	158917	169210	174875
35°	144313	151668	153026
40°	123166	122580	122000
45°	103460	91785	88955
50°	86411	62113	58992
55°	72724	38106	34618
60°	61563	20075	17400
65°	53313	10559	8432
70°	44334	6524	4568
75°	32767	4300	2584
80°	25698	2557	1294
85°	20505	2579	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	5.6
10°-20°	909.1	16.1
20°-30°	1342.4	23.8
30°-40°	1383.5	24.5
40°-50°	955.6	16.9
50°-60°	471.0	8.3
60°-70°	190.8	3.4
70°-80°	68.0	1.2
80°-90°	14.1	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°	2569.0	45.5
0°-40°	3952.5	69.9
0°-60°	5379.1	95.2
0°-90°	5652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5652.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3369	3369	3369	3369	3369	
5°	3324	3324	3340	3365	3377	314
15°	3096	3129	3222	3328	3377	872
25°	2775	2828	2950	3035	3080	1269
35°	2156	2209	2266	2278	2287	1336
45°	1334	1343	1184	1168	1147	1032
55°	761	732	399	374	362	687
65°	411	370	81	65	65	408
75°	155	130	20	12	12	174
85°	33	24	4	0	0	40
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°	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0
2.5°	3360.7	3348.7	3356.8	3340.4	3360.7	3340.4	3344.5	3348.7	3344.5	3348.7	3352.6
5°	3324.2	3311.9	3324.2	3303.8	3324.2	3311.9	3311.9	3316.1	3316.1	3320.0	3324.2
7.5°	3275.4	3263.1	3275.4	3255.0	3279.3	3267.3	3267.3	3275.4	3271.2	3275.4	3283.5
10°	3218.4	3202.1	3214.3	3202.1	3226.6	3210.2	3218.4	3218.4	3218.4	3230.5	3238.8
12.5°	3157.4	3141.0	3157.4	3137.0	3161.4	3149.3	3153.3	3165.5	3169.5	3177.7	3181.7
15°	3096.3	3076.0	3084.1	3071.9	3096.3	3084.1	3088.2	3104.5	3104.5	3116.7	3128.9
17.5°	3019.1	3002.7	3019.1	3002.7	3023.1	3014.9	3023.1	3035.3	3035.3	3047.5	3059.6
20°	2949.8	2933.6	2945.8	2933.6	2958.0	2945.8	2949.8	2966.1	2970.1	2982.4	2994.6
22.5°	2864.4	2852.2	2860.3	2848.2	2872.5	2864.4	2868.5	2884.7	2888.9	2897.0	2917.3
25°	2774.9	2750.4	2762.6	2754.5	2779.0	2766.8	2774.9	2791.1	2799.4	2811.5	2827.8
27.5°	2644.7	2632.4	2640.5	2640.5	2660.9	2648.8	2652.8	2669.2	2681.2	2693.5	2713.8
30°	2510.5	2490.1	2498.3	2502.2	2518.6	2510.5	2518.6	2534.8	2539.0	2555.2	2571.4
32.5°	2339.6	2331.3	2347.7	2339.6	2347.7	2347.7	2351.7	2363.9	2372.0	2380.3	2400.6
35°	2156.4	2140.2	2156.4	2148.3	2168.7	2156.4	2168.7	2180.9	2180.9	2197.1	2209.4
37.5°	1957.1	1936.7	1944.8	1944.8	1952.9	1949.0	1949.0	1969.3	1973.3	1985.5	1997.8
40°	1721.1	1712.9	1729.3	1725.1	1729.3	1729.3	1733.2	1745.5	1753.6	1757.7	1761.8
42.5°	1509.5	1513.5	1517.6	1517.6	1517.6	1517.6	1517.6	1533.9	1529.9	1542.1	1546.1
45°	1334.5	1318.3	1326.4	1322.4	1334.5	1322.4	1334.5	1346.7	1338.6	1350.9	1342.6
47.5°	1155.5	1155.5	1155.5	1151.5	1159.6	1155.5	1163.6	1167.7	1167.7	1167.7	1163.6
50°	1013.2	1001.0	1004.9	1004.9	1009.1	1004.9	1013.2	1017.2	1017.2	1009.1	992.8
52.5°	874.7	870.7	870.7	878.9	878.9	874.7	874.7	874.7	874.7	862.6	854.4
55°	760.9	752.8	756.8	756.8	756.8	756.8	760.9	756.8	756.8	744.5	732.4
57.5°	659.1	651.0	651.0	651.0	655.0	651.0	651.0	651.0	646.9	634.7	618.4
60°	561.5	557.4	561.5	561.5	565.5	561.5	561.5	561.5	553.4	541.2	524.8
62.5°	480.1	480.1	480.1	484.1	484.1	480.1	480.1	476.0	472.0	455.6	439.4
65°	411.0	406.8	411.0	411.0	414.9	414.9	411.0	406.8	402.9	386.5	370.3
67.5°	341.8	337.7	341.8	341.8	345.8	341.8	341.8	341.8	329.6	321.5	305.1
70°	276.6	272.7	272.7	272.7	276.6	268.5	272.7	272.7	264.5	252.3	235.9
72.5°	211.6	211.6	211.6	211.6	211.6	211.6	207.5	207.5	199.4	187.1	179.0
75°	154.7	154.7	158.7	158.7	154.7	154.7	154.7	150.6	146.4	138.3	130.2
77.5°	114.0	114.0	114.0	114.0	109.9	109.9	109.9	105.7	101.7	97.6	89.5
80°	81.4	81.4	81.4	77.3	81.4	77.3	77.3	77.3	69.2	65.0	61.0
82.5°	56.9	52.9	52.9	52.9	52.9	52.9	52.9	48.8	48.8	44.8	40.7
85°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	28.5	24.5	24.5
87.5°	16.2	20.3	20.3	20.3	20.3	20.3	20.3	16.2	16.2	16.2	12.2
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°	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0
2.5°	3352.6	3352.6	3360.7	3348.7	3369.0	3356.8	3352.6	3373.0	3360.7	3356.8	3364.9
5°	3324.2	3328.3	3332.3	3324.2	3344.5	3332.3	3332.3	3352.6	3344.5	3340.4	3352.6
7.5°	3287.6	3291.6	3299.7	3295.7	3311.9	3303.8	3308.0	3328.3	3320.0	3320.0	3332.3
10°	3242.8	3250.9	3259.1	3259.1	3279.3	3271.2	3271.2	3295.7	3287.6	3291.6	3308.0
12.5°	3189.8	3202.1	3214.3	3218.4	3238.8	3226.6	3230.5	3259.1	3255.0	3259.1	3275.4
15°	3132.9	3149.3	3161.4	3161.4	3185.9	3173.6	3185.9	3214.3	3206.2	3222.4	3242.8
17.5°	3067.9	3084.1	3100.3	3104.5	3128.9	3120.7	3137.0	3165.5	3165.5	3173.6	3198.1
20°	3006.8	3027.2	3035.3	3047.5	3071.9	3067.9	3076.0	3108.6	3108.6	3120.7	3145.2
22.5°	2925.4	2945.8	2962.0	2974.3	2994.6	2994.6	3006.8	3035.3	3035.3	3043.4	3067.9
25°	2835.9	2860.3	2872.5	2884.7	2905.1	2901.0	2913.2	2937.7	2941.7	2949.8	2974.3
27.5°	2721.9	2742.3	2758.7	2766.8	2795.2	2779.0	2791.1	2819.7	2815.6	2823.7	2844.0
30°	2579.7	2600.0	2616.2	2616.2	2640.5	2640.5	2652.8	2665.0	2665.0	2673.1	2689.5
32.5°	2412.7	2437.2	2437.2	2449.4	2465.7	2449.4	2465.7	2481.9	2473.8	2486.0	2498.3
35°	2221.5	2233.7	2237.8	2237.8	2250.1	2246.0	2241.8	2254.1	2246.0	2266.3	2278.5
37.5°	1989.7	2005.9	1997.8	2005.9	2001.8	1989.7	1989.7	2010.0	1993.6	1997.8	2010.0
40°	1765.8	1765.8	1761.8	1741.5	1745.5	1733.2	1729.3	1733.2	1717.0	1712.9	1729.3
42.5°	1533.9	1529.9	1517.6	1489.2	1493.2	1472.8	1456.6	1456.6	1448.5	1444.4	1448.5
45°	1326.4	1314.2	1293.8	1261.4	1253.1	1236.9	1204.3	1196.2	1183.9	1183.9	1188.1
47.5°	1135.1	1118.9	1086.3	1049.8	1029.4	1009.1	976.5	964.2	943.9	935.8	943.9
50°	976.5	948.0	907.3	854.4	834.0	809.7	777.1	756.8	736.4	728.3	724.2
52.5°	830.0	789.3	748.7	683.6	667.3	642.9	598.1	577.7	557.4	541.2	541.2
55°	703.8	667.3	610.3	549.3	524.8	500.5	455.6	427.2	406.8	398.7	390.6
57.5°	590.0	549.3	496.3	431.3	406.8	382.5	337.7	309.2	288.9	276.6	268.5
60°	496.3	451.7	398.7	341.8	313.4	288.9	244.2	215.6	195.2	183.1	174.9
62.5°	406.8	370.3	317.3	264.5	240.1	215.6	179.0	150.6	130.2	122.1	109.9
65°	341.8	305.1	256.3	211.6	191.3	166.8	134.3	109.9	93.6	81.4	73.3
67.5°	276.6	248.2	207.5	166.8	146.4	130.2	101.7	81.4	65.0	56.9	52.9
70°	219.7	191.3	158.7	126.1	114.0	97.6	77.3	56.9	48.8	40.7	36.6
72.5°	162.8	142.4	118.0	93.6	81.4	73.3	52.9	44.8	32.6	28.5	24.5
75°	118.0	101.7	85.4	65.0	56.9	52.9	40.7	28.5	24.5	20.3	16.2
77.5°	81.4	73.3	56.9	44.8	40.7	36.6	28.5	20.3	16.2	12.2	12.2
80°	52.9	44.8	36.6	28.5	28.5	24.5	16.2	12.2	12.2	8.1	8.1
82.5°	32.6	28.5	24.5	20.3	16.2	16.2	12.2	8.1	8.1	4.1	4.1
85°	20.3	16.2	12.2	12.2	8.1	8.1	8.1	4.1	4.1	4.1	4.1
87.5°	8.1	8.1	8.1	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°	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0
2.5°	3364.9	3364.9	3373.0	3360.7	3369.0	3369.0	3377.1	3360.7	3369.0	3373.0	3381.1
5°	3348.7	3352.6	3360.7	3356.8	3360.7	3360.7	3369.0	3348.7	3364.9	3364.9	3377.1
7.5°	3332.3	3332.3	3340.4	3336.4	3344.5	3348.7	3356.8	3340.4	3356.8	3356.8	3369.0
10°	3311.9	3311.9	3324.2	3320.0	3332.3	3336.4	3348.7	3332.3	3348.7	3352.6	3364.9
12.5°	3283.5	3287.6	3299.7	3299.7	3311.9	3320.0	3332.3	3324.2	3344.5	3348.7	3364.9
15°	3250.9	3259.1	3275.4	3271.2	3283.5	3295.7	3311.9	3299.7	3328.3	3336.4	3352.6
17.5°	3210.2	3218.4	3230.5	3230.5	3242.8	3250.9	3271.2	3263.1	3287.6	3291.6	3311.9
20°	3149.3	3161.4	3177.7	3173.6	3185.9	3194.0	3210.2	3202.1	3226.6	3234.7	3255.0
22.5°	3076.0	3084.1	3096.3	3096.3	3108.6	3116.7	3132.9	3120.7	3145.2	3149.3	3165.5
25°	2978.4	2986.5	2994.6	2998.7	3010.8	3014.9	3023.1	3014.9	3035.3	3039.4	3059.6
27.5°	2852.2	2856.3	2868.5	2868.5	2876.6	2880.6	2892.9	2876.6	2905.1	2905.1	2917.3
30°	2701.6	2697.6	2713.8	2705.7	2713.8	2713.8	2726.1	2718.0	2738.3	2730.2	2742.3
32.5°	2502.2	2510.5	2510.5	2502.2	2518.6	2514.5	2514.5	2506.4	2518.6	2522.6	2530.7
35°	2270.4	2282.5	2282.5	2286.6	2290.8	2278.5	2282.5	2258.2	2278.5	2282.5	2286.6
37.5°	2018.1	2005.9	2014.0	2001.8	2022.1	1997.8	1997.8	1981.6	1997.8	1997.8	2001.8
40°	1729.3	1725.1	1733.2	1725.1	1721.1	1717.0	1708.9	1696.7	1712.9	1704.8	1717.0
42.5°	1456.6	1452.5	1452.5	1444.4	1440.4	1440.4	1432.3	1424.0	1420.0	1420.0	1440.4
45°	1175.8	1183.9	1175.8	1171.9	1180.0	1171.9	1175.8	1159.6	1167.7	1159.6	1167.7
47.5°	939.9	943.9	935.8	927.7	939.9	927.7	927.7	915.4	931.8	931.8	923.5
50°	728.3	724.2	716.1	724.2	720.2	720.2	720.2	708.0	716.1	703.8	712.1
52.5°	537.0	533.1	533.1	528.9	533.1	528.9	528.9	524.8	524.8	520.8	524.8
55°	390.6	386.5	378.4	378.4	378.4	382.5	378.4	374.4	374.4	370.3	374.4
57.5°	264.5	256.3	256.3	256.3	256.3	252.3	252.3	248.2	252.3	248.2	252.3
60°	170.9	170.9	162.8	162.8	162.8	162.8	162.8	158.7	162.8	162.8	162.8
62.5°	105.7	105.7	101.7	97.6	101.7	97.6	97.6	97.6	101.7	97.6	101.7
65°	69.2	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
67.5°	48.8	44.8	44.8	44.8	44.8	44.8	44.8	40.7	44.8	44.8	44.8
70°	32.6	32.6	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
72.5°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
75°	16.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	12.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	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: P684424

CATALOG NUMBER: LX6C55D010 EX6C559035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0
2.5°	3369.0	3373.0	3364.9	3369.0	3360.7	3369.0	3373.0	3381.1
5°	3360.7	3364.9	3356.8	3364.9	3356.8	3364.9	3369.0	3377.1
7.5°	3352.6	3360.7	3352.6	3360.7	3352.6	3360.7	3364.9	3373.0
10°	3352.6	3364.9	3356.8	3369.0	3356.8	3364.9	3373.0	3377.1
12.5°	3352.6	3364.9	3360.7	3369.0	3364.9	3373.0	3381.1	3389.2
15°	3344.5	3356.8	3348.7	3360.7	3356.8	3360.7	3377.1	3377.1
17.5°	3299.7	3311.9	3311.9	3320.0	3320.0	3332.3	3340.4	3348.7
20°	3242.8	3255.0	3250.9	3263.1	3263.1	3275.4	3283.5	3291.6
22.5°	3157.4	3173.6	3169.5	3181.7	3177.7	3185.9	3202.1	3198.1
25°	3047.5	3067.9	3063.8	3071.9	3067.9	3067.9	3076.0	3080.0
27.5°	2913.2	2925.4	2921.3	2929.6	2921.3	2929.6	2937.7	2941.7
30°	2738.3	2746.4	2742.3	2746.4	2742.3	2750.4	2754.5	2762.6
32.5°	2526.7	2539.0	2526.7	2534.8	2530.7	2530.7	2547.1	2539.0
35°	2274.4	2278.5	2282.5	2282.5	2274.4	2278.5	2286.6	2286.6
37.5°	1993.6	2014.0	1989.7	2001.8	1997.8	1997.8	1997.8	2010.0
40°	1700.8	1704.8	1696.7	1696.7	1696.7	1692.5	1708.9	1704.8
42.5°	1424.0	1428.1	1424.0	1411.9	1415.9	1415.9	1428.1	1411.9
45°	1155.5	1163.6	1159.6	1159.6	1151.5	1151.5	1155.5	1147.4
47.5°	915.4	923.5	911.4	915.4	907.3	915.4	911.4	919.6
50°	695.7	703.8	699.8	703.8	703.8	695.7	708.0	691.7
52.5°	520.8	524.8	520.8	516.7	512.7	512.7	520.8	516.7
55°	370.3	366.1	366.1	366.1	370.3	370.3	366.1	362.2
57.5°	248.2	248.2	244.2	244.2	248.2	240.1	244.2	240.1
60°	158.7	158.7	158.7	158.7	154.7	158.7	158.7	158.7
62.5°	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
65°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
67.5°	40.7	44.8	44.8	44.8	40.7	40.7	40.7	40.7
70°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
72.5°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
75°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
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)