

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: P684431

Luminaire Tested: **LX6C55D010 EX6C559040 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684431
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 EX6C559040 6LCSWH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

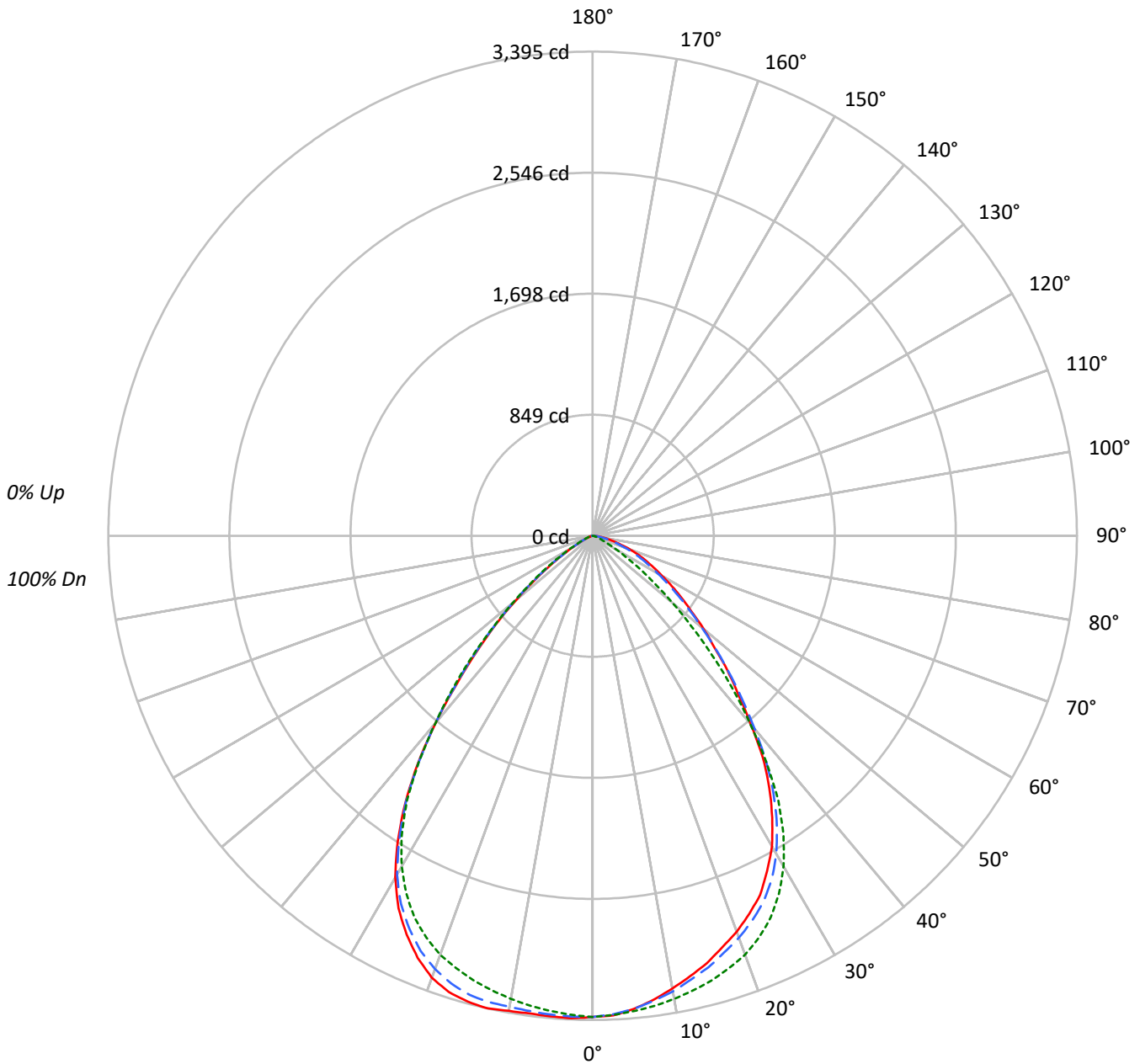
Lumens per Lamp: N/A
Luminaire Lumens: 5661.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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								
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°	184985	184985	184985
5°	183221	184112	186138
10°	179444	183519	188290
15°	176011	183179	191970
20°	172361	182343	192330
25°	168113	178710	186597
30°	159170	169482	175154
35°	144547	151909	153274
40°	123367	122773	122193
45°	103623	91932	89095
50°	86547	62215	59085
55°	72839	38173	34665
60°	61662	20108	17422
65°	53391	10572	8444
70°	44415	6540	4568
75°	32809	4321	2605
80°	25729	2557	1294
85°	20505	2579	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	5.6
10°-20°	910.5	16.1
20°-30°	1344.6	23.8
30°-40°	1385.7	24.5
40°-50°	957.1	16.9
50°-60°	471.7	8.3
60°-70°	191.2	3.4
70°-80°	68.1	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°	2573.1	45.5
0°-40°	3958.8	69.9
0°-60°	5387.6	95.2
0°-90°	5661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5661.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3374	3374	3374	3374	3374	
5°	3330	3330	3346	3370	3382	314
15°	3101	3134	3228	3334	3382	873
25°	2779	2832	2954	3040	3085	1271
35°	2160	2213	2270	2282	2290	1338
45°	1337	1345	1186	1170	1149	1033
55°	762	734	399	375	363	689
65°	412	371	82	65	65	409
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°	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4
2.5°	3366.1	3354.0	3362.1	3345.7	3366.1	3345.7	3349.8	3354.0	3349.8	3354.0	3358.0
5°	3329.5	3317.2	3329.5	3309.1	3329.5	3317.2	3317.2	3321.3	3321.3	3325.3	3329.5
7.5°	3280.6	3268.3	3280.6	3260.2	3284.6	3272.5	3272.5	3280.6	3276.4	3280.6	3288.7
10°	3223.6	3207.2	3219.4	3207.2	3231.7	3215.3	3223.6	3223.6	3223.6	3235.7	3244.0
12.5°	3162.4	3146.0	3162.4	3142.0	3166.4	3154.3	3158.3	3170.5	3174.5	3182.8	3186.8
15°	3101.3	3080.9	3089.0	3076.8	3101.3	3089.0	3093.2	3109.4	3109.4	3121.7	3133.9
17.5°	3023.9	3007.5	3023.9	3007.5	3027.9	3019.8	3027.9	3040.1	3040.1	3052.4	3064.5
20°	2954.5	2938.2	2950.5	2938.2	2962.7	2950.5	2954.5	2970.9	2974.8	2987.1	2999.4
22.5°	2869.0	2856.7	2864.8	2852.7	2877.1	2869.0	2873.1	2889.3	2893.5	2901.6	2922.0
25°	2779.3	2754.8	2767.0	2758.9	2783.4	2771.2	2779.3	2795.5	2803.8	2815.9	2832.3
27.5°	2648.9	2636.6	2644.8	2644.8	2665.1	2653.0	2657.0	2673.4	2685.5	2697.8	2718.2
30°	2514.5	2494.1	2502.2	2506.2	2522.6	2514.5	2522.6	2538.9	2543.0	2559.2	2575.5
32.5°	2343.3	2335.0	2351.4	2343.3	2351.4	2351.4	2355.4	2367.7	2375.8	2384.1	2404.5
35°	2159.9	2143.6	2159.9	2151.8	2172.1	2159.9	2172.1	2184.4	2184.4	2200.6	2212.9
37.5°	1960.2	1939.8	1947.9	1947.9	1956.1	1952.1	1952.1	1972.5	1976.4	1988.7	2001.0
40°	1723.9	1715.6	1732.0	1727.9	1732.0	1732.0	1736.0	1748.3	1756.4	1760.5	1764.6
42.5°	1511.9	1515.9	1520.1	1520.1	1520.1	1520.1	1520.1	1536.3	1532.3	1544.6	1548.6
45°	1336.6	1320.4	1328.5	1324.5	1336.6	1324.5	1336.6	1348.9	1340.8	1353.0	1344.8
47.5°	1157.3	1157.3	1157.3	1153.3	1161.5	1157.3	1165.5	1169.6	1169.6	1169.6	1165.5
50°	1014.8	1002.5	1006.5	1006.5	1010.7	1006.5	1014.8	1018.8	1018.8	1010.7	994.4
52.5°	876.1	872.1	872.1	880.3	880.3	876.1	876.1	876.1	876.1	864.0	855.7
55°	762.1	754.0	758.0	758.0	758.0	758.0	762.1	758.0	758.0	745.7	733.6
57.5°	660.2	652.1	652.1	652.1	656.1	652.1	652.1	652.1	647.9	635.7	619.4
60°	562.4	558.3	562.4	562.4	566.4	562.4	562.4	562.4	554.3	542.0	525.6
62.5°	480.9	480.9	480.9	484.9	484.9	480.9	480.9	476.8	472.8	456.4	440.1
65°	411.6	407.5	411.6	411.6	415.6	415.6	411.6	407.5	403.5	387.1	370.9
67.5°	342.4	338.2	342.4	342.4	346.3	342.4	342.4	342.4	330.1	322.0	305.6
70°	277.1	273.1	273.1	273.1	277.1	269.0	273.1	273.1	265.0	252.7	236.3
72.5°	211.9	211.9	211.9	211.9	211.9	211.9	207.8	207.8	199.7	187.4	179.3
75°	154.9	154.9	158.9	158.9	154.9	154.9	154.9	150.8	146.7	138.5	130.4
77.5°	114.2	114.2	114.2	114.2	110.0	110.0	110.0	105.9	101.9	97.8	89.7
80°	81.5	81.5	81.5	77.4	81.5	77.4	77.4	77.4	69.3	65.1	61.1
82.5°	57.0	53.0	53.0	53.0	53.0	53.0	53.0	48.9	48.9	44.9	40.8
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	20.4	20.4	20.4	20.4	20.4	20.4	16.2	16.2	16.2	12.3
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°	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4
2.5°	3358.0	3358.0	3366.1	3354.0	3374.4	3362.1	3358.0	3378.4	3366.1	3362.1	3370.2
5°	3329.5	3333.6	3337.6	3329.5	3349.8	3337.6	3337.6	3358.0	3349.8	3345.7	3358.0
7.5°	3292.8	3296.8	3304.9	3301.0	3317.2	3309.1	3313.2	3333.6	3325.3	3325.3	3337.6
10°	3247.9	3256.1	3264.3	3264.3	3284.6	3276.4	3276.4	3301.0	3292.8	3296.8	3313.2
12.5°	3194.9	3207.2	3219.4	3223.6	3244.0	3231.7	3235.7	3264.3	3260.2	3264.3	3280.6
15°	3137.9	3154.3	3166.4	3166.4	3190.9	3178.7	3190.9	3219.4	3211.3	3227.6	3247.9
17.5°	3072.8	3089.0	3105.3	3109.4	3133.9	3125.6	3142.0	3170.5	3170.5	3178.7	3203.2
20°	3011.6	3032.0	3040.1	3052.4	3076.8	3072.8	3080.9	3113.5	3113.5	3125.6	3150.2
22.5°	2930.1	2950.5	2966.7	2979.0	2999.4	2999.4	3011.6	3040.1	3040.1	3048.3	3072.8
25°	2840.5	2864.8	2877.1	2889.3	2909.7	2905.6	2917.8	2942.4	2946.3	2954.5	2979.0
27.5°	2726.3	2746.7	2763.1	2771.2	2799.7	2783.4	2795.5	2824.2	2820.1	2828.2	2848.6
30°	2583.8	2604.1	2620.4	2620.4	2644.8	2644.8	2657.0	2669.3	2669.3	2677.4	2693.8
32.5°	2416.6	2441.1	2441.1	2453.3	2469.6	2453.3	2469.6	2485.8	2477.7	2490.0	2502.2
35°	2225.0	2237.3	2241.4	2241.4	2253.7	2249.5	2245.4	2257.6	2249.5	2269.9	2282.2
37.5°	1992.8	2009.1	2001.0	2009.1	2004.9	1992.8	1992.8	2013.2	1996.8	2001.0	2013.2
40°	1768.6	1768.6	1764.6	1744.3	1748.3	1736.0	1732.0	1736.0	1719.7	1715.6	1732.0
42.5°	1536.3	1532.3	1520.1	1491.6	1495.5	1475.2	1458.9	1458.9	1450.8	1446.7	1450.8
45°	1328.5	1316.2	1295.9	1263.4	1255.1	1238.9	1206.2	1198.1	1185.8	1185.8	1190.0
47.5°	1136.9	1120.7	1088.1	1051.4	1031.1	1010.7	978.0	965.8	945.4	937.3	945.4
50°	978.0	949.5	908.8	855.7	835.4	811.0	778.3	758.0	737.6	729.5	725.3
52.5°	831.4	790.6	749.8	684.7	668.3	643.9	599.0	578.7	558.3	542.0	542.0
55°	704.9	668.3	611.3	550.2	525.6	501.3	456.4	427.9	407.5	399.4	391.2
57.5°	590.9	550.2	497.1	432.0	407.5	383.1	338.2	309.7	289.3	277.1	269.0
60°	497.1	452.4	399.4	342.4	313.9	289.3	244.6	215.9	195.5	183.4	175.2
62.5°	407.5	370.9	317.8	265.0	240.4	215.9	179.3	150.8	130.4	122.3	110.0
65°	342.4	305.6	256.7	211.9	191.6	167.0	134.6	110.0	93.8	81.5	73.4
67.5°	277.1	248.6	207.8	167.0	146.7	130.4	101.9	81.5	65.1	57.0	53.0
70°	220.1	191.6	158.9	126.3	114.2	97.8	77.4	57.0	48.9	40.8	36.6
72.5°	163.1	142.7	118.2	93.8	81.5	73.4	53.0	44.9	32.6	28.5	24.5
75°	118.2	101.9	85.5	65.1	57.0	53.0	40.8	28.5	24.5	20.4	16.2
77.5°	81.5	73.4	57.0	44.9	40.8	36.6	28.5	20.4	16.2	12.3	12.3
80°	53.0	44.9	36.6	28.5	28.5	24.5	16.2	12.3	12.3	8.1	8.1
82.5°	32.6	28.5	24.5	20.4	16.2	16.2	12.3	8.1	8.1	4.1	4.1
85°	20.4	16.2	12.3	12.3	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°	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4
2.5°	3370.2	3370.2	3378.4	3366.1	3374.4	3374.4	3382.5	3366.1	3374.4	3378.4	3386.5
5°	3354.0	3358.0	3366.1	3362.1	3366.1	3366.1	3374.4	3354.0	3370.2	3370.2	3382.5
7.5°	3337.6	3337.6	3345.7	3341.7	3349.8	3354.0	3362.1	3345.7	3362.1	3362.1	3374.4
10°	3317.2	3317.2	3329.5	3325.3	3337.6	3341.7	3354.0	3337.6	3354.0	3358.0	3370.2
12.5°	3288.7	3292.8	3304.9	3304.9	3317.2	3325.3	3337.6	3329.5	3349.8	3354.0	3370.2
15°	3256.1	3264.3	3280.6	3276.4	3288.7	3301.0	3317.2	3304.9	3333.6	3341.7	3358.0
17.5°	3215.3	3223.6	3235.7	3235.7	3247.9	3256.1	3276.4	3268.3	3292.8	3296.8	3317.2
20°	3154.3	3166.4	3182.8	3178.7	3190.9	3199.1	3215.3	3207.2	3231.7	3239.8	3260.2
22.5°	3080.9	3089.0	3101.3	3101.3	3113.5	3121.7	3137.9	3125.6	3150.2	3154.3	3170.5
25°	2983.1	2991.2	2999.4	3003.5	3015.6	3019.8	3027.9	3019.8	3040.1	3044.3	3064.5
27.5°	2856.7	2860.8	2873.1	2873.1	2881.2	2885.2	2897.5	2881.2	2909.7	2909.7	2922.0
30°	2705.9	2701.9	2718.2	2710.0	2718.2	2718.2	2730.4	2722.3	2742.7	2734.6	2746.7
32.5°	2506.2	2514.5	2514.5	2506.2	2522.6	2518.5	2518.5	2510.4	2522.6	2526.6	2534.7
35°	2274.0	2286.2	2286.2	2290.3	2294.4	2282.2	2286.2	2261.8	2282.2	2286.2	2290.3
37.5°	2021.3	2009.1	2017.2	2004.9	2025.3	2001.0	2001.0	1984.7	2001.0	2001.0	2004.9
40°	1732.0	1727.9	1736.0	1727.9	1723.9	1719.7	1711.6	1699.4	1715.6	1707.5	1719.7
42.5°	1458.9	1454.8	1454.8	1446.7	1442.7	1442.7	1434.6	1426.3	1422.3	1422.3	1442.7
45°	1177.7	1185.8	1177.7	1173.7	1181.8	1173.7	1177.7	1161.5	1169.6	1161.5	1169.6
47.5°	941.4	945.4	937.3	929.1	941.4	929.1	929.1	916.9	933.3	933.3	925.0
50°	729.5	725.3	717.2	725.3	721.3	721.3	721.3	709.1	717.2	704.9	713.2
52.5°	537.9	533.9	533.9	529.8	533.9	529.8	529.8	525.6	525.6	521.7	525.6
55°	391.2	387.1	379.0	379.0	379.0	383.1	379.0	375.0	375.0	370.9	375.0
57.5°	265.0	256.7	256.7	256.7	256.7	252.7	252.7	248.6	252.7	248.6	252.7
60°	171.2	171.2	163.1	163.1	163.1	163.1	163.1	158.9	163.1	163.1	163.1
62.5°	105.9	105.9	101.9	97.8	101.9	97.8	97.8	97.8	101.9	97.8	101.9
65°	69.3	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
67.5°	48.9	44.9	44.9	44.9	44.9	44.9	44.9	40.8	44.9	44.9	44.9
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°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	16.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	12.3	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: P684431

CATALOG NUMBER: LX6C55D010 EX6C559040 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4	3374.4
2.5°	3374.4	3378.4	3370.2	3374.4	3366.1	3374.4	3378.4	3386.5
5°	3366.1	3370.2	3362.1	3370.2	3362.1	3370.2	3374.4	3382.5
7.5°	3358.0	3366.1	3358.0	3366.1	3358.0	3366.1	3370.2	3378.4
10°	3358.0	3370.2	3362.1	3374.4	3362.1	3370.2	3378.4	3382.5
12.5°	3358.0	3370.2	3366.1	3374.4	3370.2	3378.4	3386.5	3394.6
15°	3349.8	3362.1	3354.0	3366.1	3362.1	3366.1	3382.5	3382.5
17.5°	3304.9	3317.2	3317.2	3325.3	3325.3	3337.6	3345.7	3354.0
20°	3247.9	3260.2	3256.1	3268.3	3268.3	3280.6	3288.7	3296.8
22.5°	3162.4	3178.7	3174.5	3186.8	3182.8	3190.9	3207.2	3203.2
25°	3052.4	3072.8	3068.6	3076.8	3072.8	3072.8	3080.9	3084.9
27.5°	2917.8	2930.1	2926.0	2934.2	2926.0	2934.2	2942.4	2946.3
30°	2742.7	2750.8	2746.7	2750.8	2746.7	2754.8	2758.9	2767.0
32.5°	2530.7	2543.0	2530.7	2538.9	2534.7	2534.7	2551.1	2543.0
35°	2278.0	2282.2	2286.2	2286.2	2278.0	2282.2	2290.3	2290.3
37.5°	1996.8	2017.2	1992.8	2004.9	2001.0	2001.0	2001.0	2013.2
40°	1703.5	1707.5	1699.4	1699.4	1699.4	1695.2	1711.6	1707.5
42.5°	1426.3	1430.4	1426.3	1414.2	1418.2	1418.2	1430.4	1414.2
45°	1157.3	1165.5	1161.5	1161.5	1153.3	1153.3	1157.3	1149.2
47.5°	916.9	925.0	912.9	916.9	908.8	916.9	912.9	921.0
50°	696.8	704.9	701.0	704.9	704.9	696.8	709.1	692.8
52.5°	521.7	525.6	521.7	517.5	513.5	513.5	521.7	517.5
55°	370.9	366.7	366.7	366.7	370.9	370.9	366.7	362.7
57.5°	248.6	248.6	244.6	244.6	248.6	240.4	244.6	240.4
60°	158.9	158.9	158.9	158.9	154.9	158.9	158.9	158.9
62.5°	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
65°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
67.5°	40.8	44.9	44.9	44.9	40.8	40.8	40.8	40.8
70°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
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)