

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: P684410

Luminaire Tested: **LX6C55D010 EX6C559027 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684410  
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 EX6C559027 6LCSWH  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

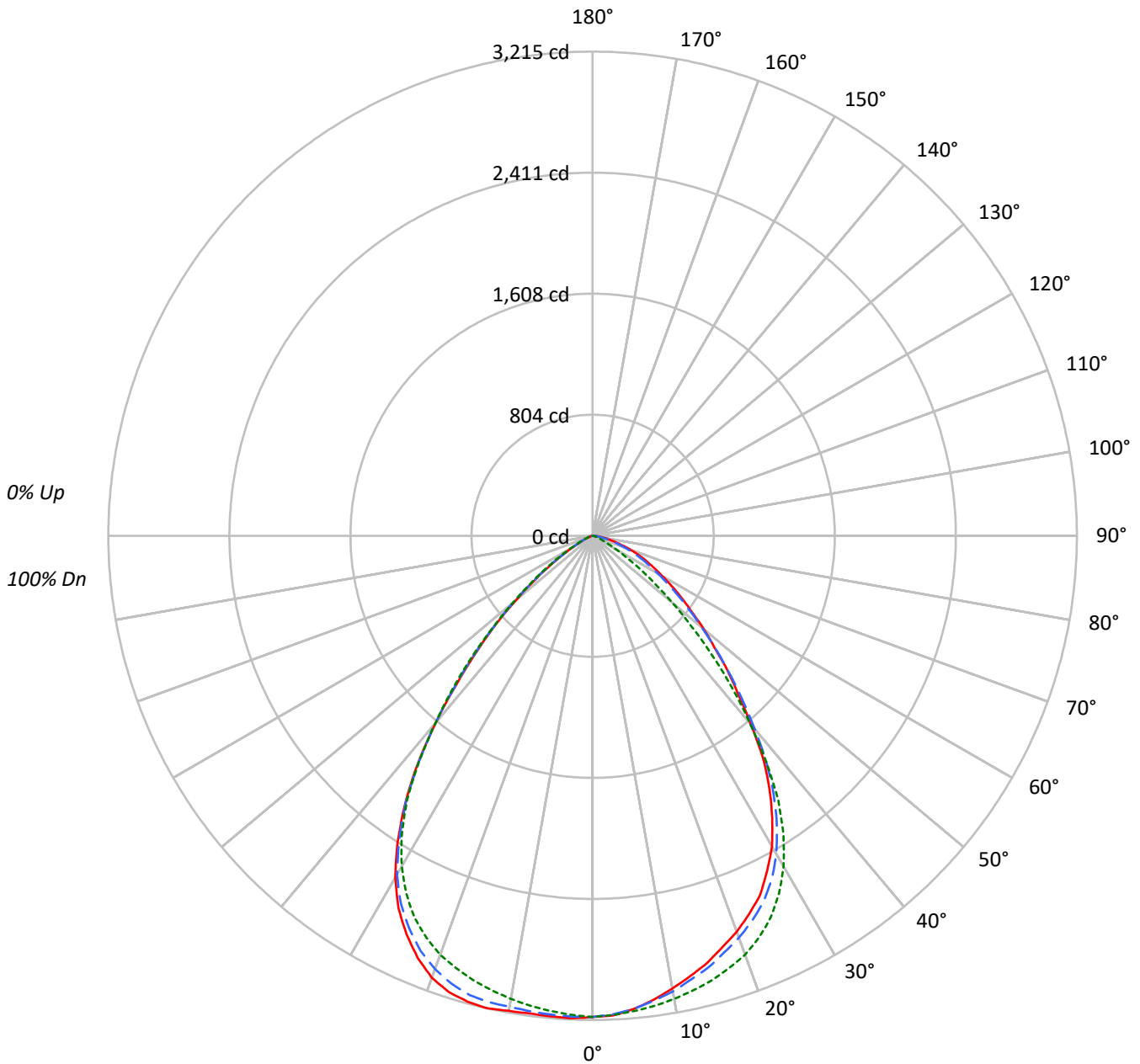
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5361.0 lumens  
Efficiency: N/A  
Efficacy: 83.9 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<sub>in</sub>): 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°	175178	175178	175178
5°	173508	174356	176271
10°	169931	173794	178309
15°	166681	173469	181794
20°	163225	172682	182138
25°	159203	169238	176708
30°	150732	160499	165874
35°	136884	143858	145149
40°	116826	116268	115717
45°	98134	87063	84373
50°	81959	58915	55956
55°	68977	36147	32830
60°	58394	19045	16501
65°	50563	10014	8003
70°	42058	6187	4328
75°	31072	4088	2457
80°	24372	2431	1231
85°	19436	2453	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.2	5.6
10°-20°	862.3	16.1
20°-30°	1273.3	23.8
30°-40°	1312.2	24.5
40°-50°	906.4	16.9
50°-60°	446.7	8.3
60°-70°	181.0	3.4
70°-80°	64.5	1.2
80°-90°	13.3	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°	2436.7	45.5
0°-40°	3749.0	69.9
0°-60°	5102.1	95.2
0°-90°	5361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3196	3196	3196	3196	3196	
5°	3153	3153	3168	3192	3203	298
15°	2937	2968	3056	3157	3203	827
25°	2632	2682	2798	2879	2921	1203
35°	2045	2096	2150	2161	2169	1267
45°	1266	1274	1123	1108	1088	978
55°	722	695	378	355	344	652
65°	390	351	77	62	62	387
75°	147	124	19	12	12	165
85°	31	23	4	0	0	38
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°	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5
2.5°	3187.7	3176.2	3183.9	3168.4	3187.7	3168.4	3172.3	3176.2	3172.3	3176.2	3180.0
5°	3153.0	3141.4	3153.0	3133.7	3153.0	3141.4	3141.4	3145.3	3145.3	3149.1	3153.0
7.5°	3106.7	3095.1	3106.7	3087.4	3110.5	3099.0	3099.0	3106.7	3102.8	3106.7	3114.4
10°	3052.7	3037.2	3048.8	3037.2	3060.4	3044.9	3052.7	3052.7	3052.7	3064.2	3072.0
12.5°	2994.8	2979.3	2994.8	2975.5	2998.6	2987.1	2990.9	3002.5	3006.3	3014.1	3017.9
15°	2936.9	2917.6	2925.3	2913.7	2936.9	2925.3	2929.2	2944.6	2944.6	2956.2	2967.8
17.5°	2863.6	2848.1	2863.6	2848.1	2867.4	2859.7	2867.4	2879.0	2879.0	2890.6	2902.1
20°	2797.9	2782.5	2794.1	2782.5	2805.7	2794.1	2797.9	2813.4	2817.2	2828.8	2840.4
22.5°	2716.9	2705.3	2713.0	2701.5	2724.6	2716.9	2720.8	2736.2	2740.1	2747.8	2767.1
25°	2632.0	2608.8	2620.4	2612.7	2635.9	2624.3	2632.0	2647.4	2655.2	2666.7	2682.2
27.5°	2508.5	2496.9	2504.6	2504.6	2523.9	2512.4	2516.2	2531.7	2543.2	2554.8	2574.1
30°	2381.2	2361.9	2369.6	2373.4	2388.9	2381.2	2388.9	2404.3	2408.2	2423.6	2439.0
32.5°	2219.1	2211.3	2226.8	2219.1	2226.8	2226.8	2230.6	2242.2	2249.9	2257.7	2277.0
35°	2045.4	2030.0	2045.4	2037.7	2057.0	2045.4	2057.0	2068.6	2068.6	2084.0	2095.6
37.5°	1856.3	1837.0	1844.7	1844.7	1852.4	1848.6	1848.6	1867.9	1871.7	1883.3	1894.9
40°	1632.5	1624.7	1640.2	1636.3	1640.2	1640.2	1644.0	1655.6	1663.3	1667.2	1671.1
42.5°	1431.8	1435.6	1439.5	1439.5	1439.5	1439.5	1439.5	1454.9	1451.1	1462.7	1466.5
45°	1265.8	1250.4	1258.1	1254.3	1265.8	1254.3	1265.8	1277.4	1269.7	1281.3	1273.5
47.5°	1096.0	1096.0	1096.0	1092.2	1099.9	1096.0	1103.7	1107.6	1107.6	1107.6	1103.7
50°	961.0	949.4	953.2	953.2	957.1	953.2	961.0	964.8	964.8	957.1	941.7
52.5°	829.7	825.9	825.9	833.6	833.6	829.7	829.7	829.7	829.7	818.2	810.4
55°	721.7	714.0	717.8	717.8	717.8	717.8	721.7	717.8	717.8	706.2	694.7
57.5°	625.2	617.5	617.5	617.5	621.3	617.5	617.5	617.5	613.6	602.0	586.6
60°	532.6	528.7	532.6	532.6	536.4	532.6	532.6	532.6	524.9	513.3	497.8
62.5°	455.4	455.4	455.4	459.2	459.2	455.4	455.4	451.5	447.7	432.2	416.8
65°	389.8	385.9	389.8	389.8	393.6	393.6	389.8	385.9	382.1	366.6	351.2
67.5°	324.2	320.3	324.2	324.2	328.0	324.2	324.2	324.2	312.6	304.9	289.4
70°	262.4	258.6	258.6	258.6	262.4	254.7	258.6	258.6	250.9	239.3	223.8
72.5°	200.7	200.7	200.7	200.7	200.7	200.7	196.8	196.8	189.1	177.5	169.8
75°	146.7	146.7	150.5	150.5	146.7	146.7	146.7	142.8	138.9	131.2	123.5
77.5°	108.1	108.1	108.1	108.1	104.2	104.2	104.2	100.3	96.5	92.6	84.9
80°	77.2	77.2	77.2	73.3	77.2	73.3	73.3	73.3	65.6	61.7	57.9
82.5°	54.0	50.2	50.2	50.2	50.2	50.2	50.2	46.3	46.3	42.5	38.6
85°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	27.0	23.2	23.2
87.5°	15.4	19.3	19.3	19.3	19.3	19.3	19.3	15.4	15.4	15.4	11.6
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°	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5
2.5°	3180.0	3180.0	3187.7	3176.2	3195.5	3183.9	3180.0	3199.3	3187.7	3183.9	3191.6
5°	3153.0	3156.9	3160.7	3153.0	3172.3	3160.7	3160.7	3180.0	3172.3	3168.4	3180.0
7.5°	3118.3	3122.1	3129.8	3126.0	3141.4	3133.7	3137.6	3156.9	3149.1	3149.1	3160.7
10°	3075.8	3083.5	3091.3	3091.3	3110.5	3102.8	3102.8	3126.0	3118.3	3122.1	3137.6
12.5°	3025.6	3037.2	3048.8	3052.7	3072.0	3060.4	3064.2	3091.3	3087.4	3091.3	3106.7
15°	2971.6	2987.1	2998.6	2998.6	3021.8	3010.2	3021.8	3048.8	3041.1	3056.5	3075.8
17.5°	2909.9	2925.3	2940.7	2944.6	2967.8	2960.0	2975.5	3002.5	3002.5	3010.2	3033.4
20°	2852.0	2871.3	2879.0	2890.6	2913.7	2909.9	2917.6	2948.5	2948.5	2960.0	2983.2
22.5°	2774.8	2794.1	2809.5	2821.1	2840.4	2840.4	2852.0	2879.0	2879.0	2886.7	2909.9
25°	2689.9	2713.0	2724.6	2736.2	2755.5	2751.6	2763.2	2786.4	2790.2	2797.9	2821.1
27.5°	2581.8	2601.1	2616.6	2624.3	2651.3	2635.9	2647.4	2674.5	2670.6	2678.3	2697.6
30°	2446.8	2466.1	2481.5	2481.5	2504.6	2504.6	2516.2	2527.8	2527.8	2535.5	2551.0
32.5°	2288.5	2311.7	2311.7	2323.3	2338.7	2323.3	2338.7	2354.1	2346.4	2358.0	2369.6
35°	2107.1	2118.7	2122.6	2122.6	2134.2	2130.3	2126.4	2138.0	2130.3	2149.6	2161.2
37.5°	1887.2	1902.6	1894.9	1902.6	1898.7	1887.2	1887.2	1906.5	1891.0	1894.9	1906.5
40°	1674.9	1674.9	1671.1	1651.8	1655.6	1644.0	1640.2	1644.0	1628.6	1624.7	1640.2
42.5°	1454.9	1451.1	1439.5	1412.5	1416.3	1397.0	1381.6	1381.6	1373.9	1370.0	1373.9
45°	1258.1	1246.5	1227.2	1196.4	1188.6	1173.2	1142.3	1134.6	1123.0	1123.0	1126.9
47.5°	1076.7	1061.3	1030.4	995.7	976.4	957.1	926.2	914.6	895.3	887.6	895.3
50°	926.2	899.2	860.6	810.4	791.1	768.0	737.1	717.8	698.5	690.8	686.9
52.5°	787.3	748.7	710.1	648.4	632.9	609.8	567.3	548.0	528.7	513.3	513.3
55°	667.6	632.9	578.9	521.0	497.8	474.7	432.2	405.2	385.9	378.2	370.5
57.5°	559.6	521.0	470.8	409.1	385.9	362.8	320.3	293.3	274.0	262.4	254.7
60°	470.8	428.4	378.2	324.2	297.2	274.0	231.6	204.5	185.2	173.7	165.9
62.5°	385.9	351.2	301.0	250.9	227.7	204.5	169.8	142.8	123.5	115.8	104.2
65°	324.2	289.4	243.1	200.7	181.4	158.2	127.4	104.2	88.8	77.2	69.5
67.5°	262.4	235.4	196.8	158.2	138.9	123.5	96.5	77.2	61.7	54.0	50.2
70°	208.4	181.4	150.5	119.6	108.1	92.6	73.3	54.0	46.3	38.6	34.7
72.5°	154.4	135.1	111.9	88.8	77.2	69.5	50.2	42.5	30.9	27.0	23.2
75°	111.9	96.5	81.0	61.7	54.0	50.2	38.6	27.0	23.2	19.3	15.4
77.5°	77.2	69.5	54.0	42.5	38.6	34.7	27.0	19.3	15.4	11.6	11.6
80°	50.2	42.5	34.7	27.0	27.0	23.2	15.4	11.6	11.6	7.7	7.7
82.5°	30.9	27.0	23.2	19.3	15.4	15.4	11.6	7.7	7.7	3.9	3.9
85°	19.3	15.4	11.6	11.6	7.7	7.7	7.7	3.9	3.9	3.9	3.9
87.5°	7.7	7.7	7.7	3.9	3.9	3.9	3.9	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°	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5
2.5°	3191.6	3191.6	3199.3	3187.7	3195.5	3195.5	3203.2	3187.7	3195.5	3199.3	3207.0
5°	3176.2	3180.0	3187.7	3183.9	3187.7	3187.7	3195.5	3176.2	3191.6	3191.6	3203.2
7.5°	3160.7	3160.7	3168.4	3164.6	3172.3	3176.2	3183.9	3168.4	3183.9	3183.9	3195.5
10°	3141.4	3141.4	3153.0	3149.1	3160.7	3164.6	3176.2	3160.7	3176.2	3180.0	3191.6
12.5°	3114.4	3118.3	3129.8	3129.8	3141.4	3149.1	3160.7	3153.0	3172.3	3176.2	3191.6
15°	3083.5	3091.3	3106.7	3102.8	3114.4	3126.0	3141.4	3129.8	3156.9	3164.6	3180.0
17.5°	3044.9	3052.7	3064.2	3064.2	3075.8	3083.5	3102.8	3095.1	3118.3	3122.1	3141.4
20°	2987.1	2998.6	3014.1	3010.2	3021.8	3029.5	3044.9	3037.2	3060.4	3068.1	3087.4
22.5°	2917.6	2925.3	2936.9	2936.9	2948.5	2956.2	2971.6	2960.0	2983.2	2987.1	3002.5
25°	2825.0	2832.7	2840.4	2844.3	2855.8	2859.7	2867.4	2859.7	2879.0	2882.9	2902.1
27.5°	2705.3	2709.2	2720.8	2720.8	2728.5	2732.3	2743.9	2728.5	2755.5	2755.5	2767.1
30°	2562.5	2558.7	2574.1	2566.4	2574.1	2574.1	2585.7	2578.0	2597.3	2589.6	2601.1
32.5°	2373.4	2381.2	2381.2	2373.4	2388.9	2385.0	2385.0	2377.3	2388.9	2392.7	2400.4
35°	2153.5	2165.0	2165.0	2168.9	2172.8	2161.2	2165.0	2141.9	2161.2	2165.0	2168.9
37.5°	1914.2	1902.6	1910.3	1898.7	1918.0	1894.9	1894.9	1879.5	1894.9	1894.9	1898.7
40°	1640.2	1636.3	1644.0	1636.3	1632.5	1628.6	1620.9	1609.3	1624.7	1617.0	1628.6
42.5°	1381.6	1377.7	1377.7	1370.0	1366.2	1366.2	1358.5	1350.7	1346.9	1346.9	1366.2
45°	1115.3	1123.0	1115.3	1111.5	1119.2	1111.5	1115.3	1099.9	1107.6	1099.9	1107.6
47.5°	891.5	895.3	887.6	879.9	891.5	879.9	879.9	868.3	883.8	883.8	876.0
50°	690.8	686.9	679.2	686.9	683.1	683.1	683.1	671.5	679.2	667.6	675.4
52.5°	509.4	505.6	505.6	501.7	505.6	501.7	501.7	497.8	497.8	494.0	497.8
55°	370.5	366.6	358.9	358.9	358.9	362.8	358.9	355.1	355.1	351.2	355.1
57.5°	250.9	243.1	243.1	243.1	243.1	239.3	239.3	235.4	239.3	235.4	239.3
60°	162.1	162.1	154.4	154.4	154.4	154.4	154.4	150.5	154.4	154.4	154.4
62.5°	100.3	100.3	96.5	92.6	96.5	92.6	92.6	92.6	96.5	92.6	96.5
65°	65.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
67.5°	46.3	42.5	42.5	42.5	42.5	42.5	42.5	38.6	42.5	42.5	42.5
70°	30.9	30.9	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
72.5°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
75°	15.4	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
77.5°	11.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
80°	7.7	7.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.9	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	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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: P684410

CATALOG NUMBER: LX6C55D010 EX6C559027 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5
2.5°	3195.5	3199.3	3191.6	3195.5	3187.7	3195.5	3199.3	3207.0
5°	3187.7	3191.6	3183.9	3191.6	3183.9	3191.6	3195.5	3203.2
7.5°	3180.0	3187.7	3180.0	3187.7	3180.0	3187.7	3191.6	3199.3
10°	3180.0	3191.6	3183.9	3195.5	3183.9	3191.6	3199.3	3203.2
12.5°	3180.0	3191.6	3187.7	3195.5	3191.6	3199.3	3207.0	3214.7
15°	3172.3	3183.9	3176.2	3187.7	3183.9	3187.7	3203.2	3203.2
17.5°	3129.8	3141.4	3141.4	3149.1	3149.1	3160.7	3168.4	3176.2
20°	3075.8	3087.4	3083.5	3095.1	3095.1	3106.7	3114.4	3122.1
22.5°	2994.8	3010.2	3006.3	3017.9	3014.1	3021.8	3037.2	3033.4
25°	2890.6	2909.9	2906.0	2913.7	2909.9	2909.9	2917.6	2921.4
27.5°	2763.2	2774.8	2770.9	2778.7	2770.9	2778.7	2786.4	2790.2
30°	2597.3	2605.0	2601.1	2605.0	2601.1	2608.8	2612.7	2620.4
32.5°	2396.6	2408.2	2396.6	2404.3	2400.4	2400.4	2415.9	2408.2
35°	2157.3	2161.2	2165.0	2165.0	2157.3	2161.2	2168.9	2168.9
37.5°	1891.0	1910.3	1887.2	1898.7	1894.9	1894.9	1894.9	1906.5
40°	1613.2	1617.0	1609.3	1609.3	1609.3	1605.4	1620.9	1617.0
42.5°	1350.7	1354.6	1350.7	1339.2	1343.0	1343.0	1354.6	1339.2
45°	1096.0	1103.7	1099.9	1099.9	1092.2	1092.2	1096.0	1088.3
47.5°	868.3	876.0	864.5	868.3	860.6	868.3	864.5	872.2
50°	659.9	667.6	663.8	667.6	667.6	659.9	671.5	656.1
52.5°	494.0	497.8	494.0	490.1	486.3	486.3	494.0	490.1
55°	351.2	347.3	347.3	347.3	351.2	351.2	347.3	343.5
57.5°	235.4	235.4	231.6	231.6	235.4	227.7	231.6	227.7
60°	150.5	150.5	150.5	150.5	146.7	150.5	150.5	150.5
62.5°	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
65°	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
67.5°	38.6	42.5	42.5	42.5	38.6	38.6	38.6	38.6
70°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
72.5°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
75°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	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)