

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: P859436

Luminaire Tested: **LX4C70D010 EX4C709027 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859436  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C70D010 EX4C709027 4LBLWW\*  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

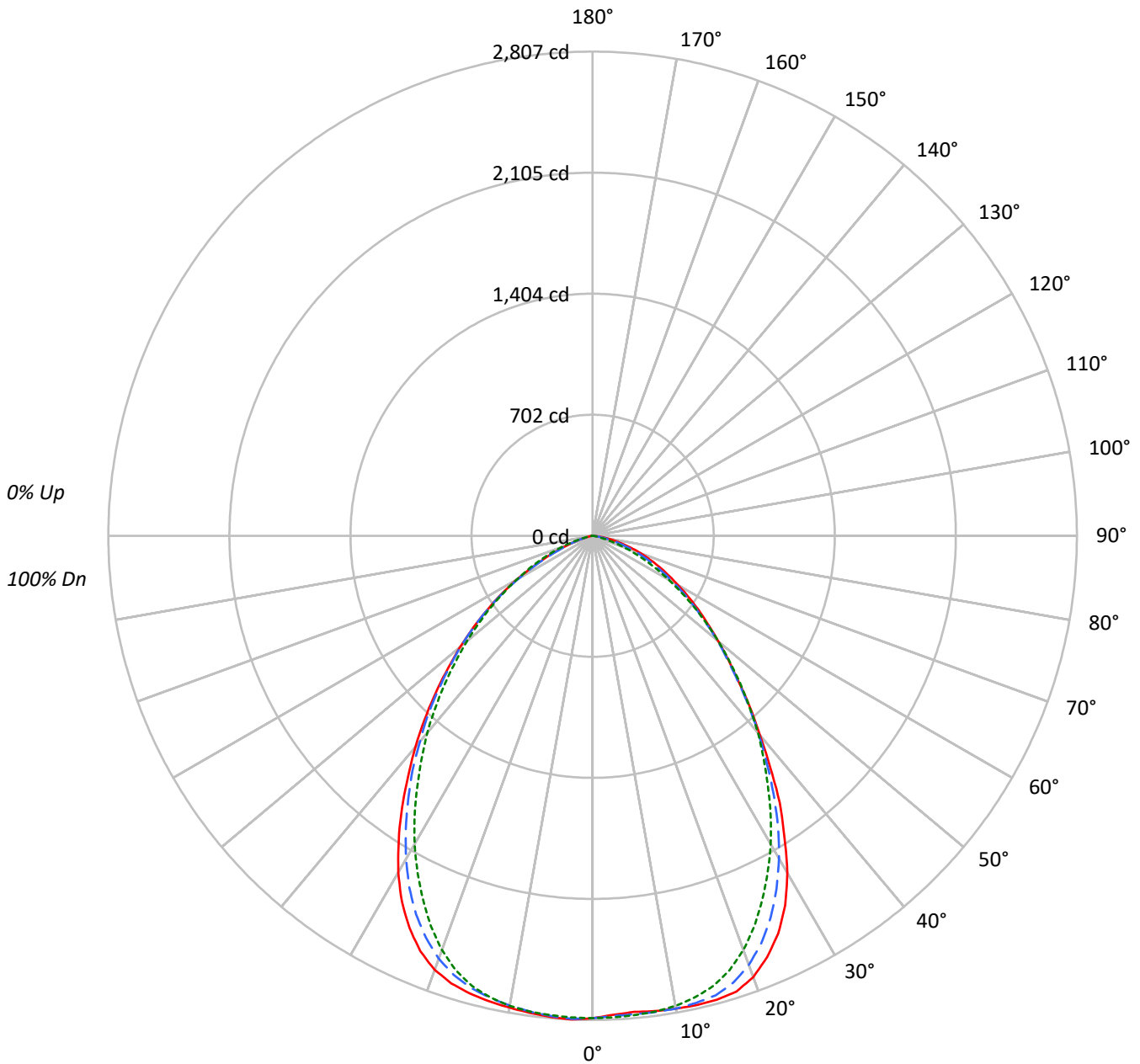
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5362.0 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 78  
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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CATALOG NUMBER: LX4C70D010 EX4C709027 4LBLWW\*

### 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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	343597	343597	343597
5°	341678	344009	345304
10°	347325	345230	346539
15°	354115	343698	349434
20°	355895	334075	349999
25°	344957	315474	340254
30°	320176	292754	319580
35°	283515	265563	288885
40°	241699	239182	256181
45°	207655	210018	223170
50°	181264	181665	191298
55°	160170	153423	158585
60°	140372	125163	124647
65°	124273	97092	86395
70°	106000	66775	51294
75°	85725	35885	23449
80°	58721	8914	5943
85°	17761	2960	2960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.8	5.0
10°-20°	769.5	14.4
20°-30°	1111.8	20.7
30°-40°	1149.4	21.4
40°-50°	949.7	17.7
50°-60°	655.4	12.2
60°-70°	343.1	6.4
70°-80°	108.0	2.0
80°-90°	9.2	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°	2147.1	40.0
0°-40°	3296.5	61.5
0°-60°	4901.7	91.4
0°-90°	5362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5362.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2797	2797	2797	2797	2797	
5°	2771	2784	2790	2795	2800	265
15°	2784	2758	2702	2715	2747	786
25°	2545	2442	2327	2421	2510	1162
35°	1890	1827	1771	1863	1926	1173
45°	1195	1190	1209	1264	1284	932
55°	748	725	716	736	740	672
65°	428	388	334	277	297	423
75°	181	142	76	52	49	194
85°	13	6	2	2	2	26
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°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2779.0	2780.0	2780.0	2782.1	2782.1	2782.1	2783.2	2783.2	2784.2	2785.3	2786.3
5°	2770.6	2770.6	2772.7	2773.7	2775.8	2776.9	2779.0	2780.0	2782.1	2783.2	2784.2
7.5°	2779.0	2779.0	2780.0	2781.1	2781.1	2782.1	2782.1	2783.2	2784.2	2785.3	2785.3
10°	2784.2	2784.2	2784.2	2784.2	2785.3	2785.3	2785.3	2784.2	2784.2	2784.2	2783.2
12.5°	2786.3	2786.3	2785.3	2784.2	2785.3	2784.2	2784.2	2781.1	2779.0	2776.9	2773.7
15°	2784.2	2784.2	2783.2	2782.1	2781.1	2779.0	2777.9	2772.7	2768.5	2762.2	2758.0
17.5°	2770.6	2768.5	2766.4	2764.3	2760.1	2756.9	2754.8	2745.3	2738.0	2727.5	2715.9
20°	2722.2	2720.1	2717.0	2711.7	2706.5	2702.3	2696.0	2682.3	2675.0	2659.2	2647.7
22.5°	2643.5	2641.4	2642.4	2633.0	2622.5	2616.2	2612.0	2600.4	2587.8	2567.9	2555.3
25°	2544.8	2538.4	2538.4	2523.7	2518.5	2514.3	2509.0	2495.4	2476.5	2458.6	2441.8
27.5°	2416.6	2408.2	2404.0	2401.9	2389.3	2379.9	2372.5	2362.0	2346.3	2330.5	2307.4
30°	2257.0	2255.9	2250.7	2241.2	2231.8	2227.6	2219.2	2201.3	2186.6	2175.1	2160.4
32.5°	2069.0	2067.9	2067.9	2067.9	2061.6	2060.6	2048.0	2038.5	2027.0	2009.1	1999.7
35°	1890.4	1889.4	1890.4	1874.7	1870.5	1867.3	1866.3	1860.0	1844.2	1835.8	1827.4
37.5°	1688.8	1691.9	1689.8	1685.6	1690.9	1681.4	1688.8	1675.1	1668.8	1666.7	1657.3
40°	1507.1	1515.5	1507.1	1508.2	1513.4	1504.0	1504.0	1501.9	1497.7	1495.6	1493.5
42.5°	1351.7	1341.2	1347.5	1342.2	1347.5	1344.3	1339.1	1342.2	1343.3	1339.1	1338.0
45°	1195.2	1197.3	1199.4	1196.2	1196.2	1193.1	1201.5	1196.2	1196.2	1197.3	1189.9
47.5°	1068.1	1065.0	1067.1	1065.0	1066.0	1063.9	1066.0	1067.1	1065.0	1065.0	1058.7
50°	948.4	946.3	953.6	947.3	947.3	946.3	947.3	945.2	942.1	942.1	944.2
52.5°	844.4	840.2	839.1	844.4	837.0	837.0	838.1	836.0	831.8	829.7	824.4
55°	747.8	746.7	747.8	743.6	741.5	741.5	736.2	734.1	733.1	727.8	724.7
57.5°	657.5	654.3	655.4	654.3	650.1	649.1	644.9	644.9	640.7	636.5	631.2
60°	571.3	571.3	574.5	570.3	567.1	565.0	562.9	560.8	553.5	546.1	539.8
62.5°	494.7	495.7	494.7	491.5	489.4	487.3	485.2	478.9	472.6	468.4	461.1
65°	427.5	426.4	423.3	421.1	415.9	415.9	411.7	408.5	401.2	394.9	387.5
67.5°	358.1	356.0	356.0	356.0	349.7	348.7	346.6	340.3	334.0	325.6	319.3
70°	295.1	297.2	294.1	290.9	287.8	286.7	283.6	277.3	269.9	261.5	256.3
72.5°	235.3	237.4	234.2	233.2	226.9	224.8	223.7	218.5	210.0	204.8	196.4
75°	180.6	181.7	179.6	177.5	173.3	172.2	167.0	162.8	157.5	149.1	141.8
77.5°	130.2	128.1	128.1	123.9	119.7	119.7	118.7	112.4	105.0	98.7	92.4
80°	83.0	81.9	78.8	76.7	73.5	72.5	71.4	66.2	60.9	56.7	52.5
82.5°	42.0	41.0	39.9	38.9	36.8	34.7	35.7	31.5	29.4	25.2	22.1
85°	12.6	13.7	13.7	12.6	11.6	11.6	11.6	10.5	8.4	7.4	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2787.4	2788.4	2789.5	2790.5	2790.5	2791.6	2792.6	2793.7	2794.7	2794.7	2795.8
5°	2785.3	2787.4	2787.4	2788.4	2788.4	2788.4	2789.5	2789.5	2789.5	2789.5	2790.5
7.5°	2786.3	2786.3	2786.3	2785.3	2785.3	2784.2	2784.2	2784.2	2782.1	2782.1	2782.1
10°	2781.1	2780.0	2779.0	2776.9	2775.8	2774.8	2772.7	2770.6	2768.5	2767.4	2765.3
12.5°	2770.6	2766.4	2762.2	2758.0	2755.9	2754.8	2750.6	2747.4	2744.3	2741.1	2739.0
15°	2749.5	2743.2	2735.9	2727.5	2725.4	2723.3	2715.9	2709.6	2705.4	2702.3	2697.0
17.5°	2707.5	2694.9	2686.5	2673.9	2668.7	2666.6	2655.0	2648.7	2641.4	2639.3	2635.1
20°	2633.0	2621.4	2605.7	2594.1	2587.8	2581.5	2572.1	2563.7	2555.3	2555.3	2550.0
22.5°	2539.5	2524.8	2504.8	2490.1	2489.1	2476.5	2468.1	2458.6	2455.5	2449.2	2449.2
25°	2421.9	2409.3	2387.2	2374.6	2368.3	2365.2	2351.5	2338.9	2332.6	2327.3	2331.6
27.5°	2291.6	2272.7	2255.9	2240.2	2234.9	2228.6	2216.0	2210.8	2199.2	2198.2	2197.1
30°	2142.5	2123.6	2106.8	2099.4	2088.9	2083.7	2074.2	2067.9	2063.7	2063.7	2061.6
32.5°	1986.0	1969.2	1960.8	1945.1	1939.8	1932.5	1926.2	1919.9	1922.0	1919.9	1920.9
35°	1816.9	1812.7	1797.0	1787.5	1787.5	1786.5	1776.0	1771.8	1769.7	1770.7	1776.0
37.5°	1656.2	1643.6	1633.1	1626.8	1632.1	1625.8	1624.7	1624.7	1631.0	1626.8	1635.2
40°	1485.1	1484.0	1479.8	1481.9	1483.0	1475.6	1477.7	1478.7	1483.0	1491.4	1492.4
42.5°	1335.9	1334.9	1334.9	1334.9	1332.8	1328.6	1332.8	1340.1	1339.1	1345.4	1350.6
45°	1192.0	1189.9	1194.1	1191.0	1197.3	1199.4	1196.2	1198.3	1204.6	1208.8	1217.2
47.5°	1060.8	1060.8	1061.8	1063.9	1057.6	1062.9	1065.0	1069.2	1072.3	1074.4	1078.6
50°	938.9	938.9	936.8	936.8	936.8	940.0	935.8	941.0	942.1	950.5	955.7
52.5°	826.5	821.3	824.4	822.3	818.1	816.0	818.1	819.2	825.5	827.6	833.9
55°	719.4	719.4	711.0	708.9	712.1	711.0	710.0	710.0	713.1	716.3	721.5
57.5°	624.9	618.6	612.3	611.2	608.1	609.1	609.1	608.1	606.0	607.0	608.1
60°	535.6	531.4	522.0	522.0	520.9	519.9	514.6	513.6	508.3	509.4	505.2
62.5°	453.7	451.6	439.0	434.8	434.8	431.7	426.4	425.4	418.0	418.0	413.8
65°	380.2	373.9	366.5	359.2	359.2	355.0	351.8	342.4	337.1	334.0	327.7
67.5°	313.0	303.5	296.2	289.9	285.7	284.6	277.3	271.0	262.6	257.3	247.9
70°	247.9	240.5	233.2	226.9	222.7	218.5	211.1	201.6	195.3	185.9	179.6
72.5°	186.9	180.6	174.3	165.9	160.7	157.5	150.2	141.8	131.3	125.0	116.6
75°	134.4	127.1	118.7	111.3	108.2	105.0	96.6	90.3	83.0	75.6	67.2
77.5°	87.2	78.8	72.5	64.1	63.0	60.9	52.5	46.2	41.0	36.8	31.5
80°	46.2	42.0	36.8	31.5	29.4	26.3	22.1	18.9	15.8	12.6	10.5
82.5°	20.0	16.8	13.7	11.6	10.5	9.5	7.4	6.3	5.3	5.3	4.2
85°	5.3	4.2	4.2	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	1.1	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°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2796.8	2797.9	2798.9	2798.9	2800.0	2801.0	2801.0	2802.1	2803.1	2804.2	2804.2
5°	2791.6	2791.6	2791.6	2792.6	2792.6	2792.6	2792.6	2794.7	2794.7	2795.8	2796.8
7.5°	2781.1	2781.1	2781.1	2781.1	2780.0	2781.1	2780.0	2780.0	2782.1	2783.2	2784.2
10°	2764.3	2763.2	2763.2	2762.2	2762.2	2762.2	2763.2	2764.3	2765.3	2766.4	2769.5
12.5°	2738.0	2736.9	2736.9	2735.9	2735.9	2736.9	2738.0	2740.1	2744.3	2746.4	2750.6
15°	2696.0	2694.9	2696.0	2697.0	2699.1	2702.3	2705.4	2708.6	2714.9	2720.1	2725.4
17.5°	2635.1	2636.1	2637.2	2639.3	2642.4	2646.6	2655.0	2663.4	2670.8	2679.2	2687.6
20°	2551.1	2555.3	2556.3	2563.7	2565.8	2575.2	2584.7	2597.3	2608.8	2619.3	2630.9
22.5°	2450.2	2453.4	2457.6	2466.0	2471.2	2483.8	2495.4	2510.1	2522.7	2536.3	2553.2
25°	2335.8	2336.8	2349.4	2349.4	2362.0	2372.5	2386.2	2401.9	2420.8	2438.7	2450.2
27.5°	2205.5	2210.8	2220.2	2224.4	2233.9	2250.7	2262.2	2281.1	2300.0	2315.8	2328.4
30°	2069.0	2073.2	2088.9	2091.0	2098.4	2113.1	2128.9	2146.7	2161.4	2179.3	2190.8
32.5°	1925.1	1936.7	1946.1	1953.5	1955.6	1977.6	1986.0	1998.6	2015.4	2033.3	2044.8
35°	1785.4	1790.7	1804.3	1808.5	1814.8	1827.4	1844.2	1854.7	1863.1	1874.7	1888.3
37.5°	1637.3	1653.1	1656.2	1668.8	1670.9	1682.5	1690.9	1703.5	1714.0	1724.5	1726.6
40°	1499.8	1505.0	1516.6	1519.7	1521.8	1537.6	1548.1	1551.2	1556.5	1565.9	1578.5
42.5°	1360.1	1365.3	1377.9	1374.8	1384.2	1391.6	1396.8	1409.4	1414.7	1417.8	1417.8
45°	1222.5	1224.6	1233.0	1237.2	1242.4	1246.6	1256.1	1262.4	1264.5	1274.0	1277.1
47.5°	1091.2	1093.3	1099.6	1107.0	1104.9	1110.1	1120.6	1123.8	1124.8	1131.1	1134.3
50°	962.0	967.3	975.7	973.6	979.9	983.0	992.5	994.6	994.6	995.6	996.7
52.5°	841.2	845.4	847.6	849.7	852.8	858.1	862.3	860.2	864.4	868.6	865.4
55°	721.5	724.7	729.9	732.0	732.0	733.1	731.0	740.4	736.2	735.2	736.2
57.5°	612.3	608.1	607.0	612.3	614.4	613.3	610.2	614.4	614.4	612.3	609.1
60°	506.2	503.1	502.0	503.1	498.9	495.7	497.8	495.7	490.5	488.4	489.4
62.5°	409.6	406.4	398.0	398.0	395.9	394.9	386.5	387.5	383.3	377.0	379.1
65°	320.3	311.9	307.7	306.7	299.3	293.0	290.9	283.6	277.3	276.2	277.3
67.5°	240.5	231.1	223.7	220.6	216.4	211.1	203.7	197.4	199.5	198.5	202.7
70°	167.0	160.7	153.3	148.1	150.2	143.9	139.7	139.7	140.7	141.8	143.9
72.5°	111.3	102.9	99.8	96.6	94.5	90.3	92.4	92.4	91.4	92.4	90.3
75°	63.0	58.8	55.7	54.6	52.5	52.5	52.5	52.5	51.5	50.4	50.4
77.5°	28.4	26.3	25.2	24.2	24.2	24.2	23.1	22.1	22.1	22.1	21.0
80°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	4.2	4.2	5.3	5.3	5.3	4.2	5.3	5.3	4.2	4.2	5.3
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.1	1.1	1.1	0.0	1.1	1.1	1.1	1.1	0.0	1.1	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





TEST NUMBER: P859436

CATALOG NUMBER: LX4C70D010 EX4C709027 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2805.2	2806.3	2806.3	2806.3	2807.3	2807.3	2807.3	2807.3
5°	2797.9	2798.9	2798.9	2798.9	2800.0	2800.0	2800.0	2800.0
7.5°	2785.3	2786.3	2786.3	2787.4	2787.4	2788.4	2788.4	2789.5
10°	2770.6	2772.7	2773.7	2774.8	2775.8	2776.9	2776.9	2777.9
12.5°	2754.8	2756.9	2758.0	2760.1	2762.2	2763.2	2764.3	2765.3
15°	2731.7	2735.9	2738.0	2739.0	2743.2	2745.3	2746.4	2747.4
17.5°	2694.9	2703.3	2706.5	2708.6	2712.8	2717.0	2720.1	2721.2
20°	2642.4	2651.9	2656.1	2661.3	2667.6	2672.9	2675.0	2677.1
22.5°	2568.9	2579.4	2585.7	2592.0	2597.3	2602.5	2610.9	2607.8
25°	2463.9	2481.7	2489.1	2492.2	2503.8	2510.1	2514.3	2510.1
27.5°	2346.3	2356.8	2363.1	2370.4	2378.8	2385.1	2387.2	2393.5
30°	2204.5	2222.3	2221.3	2228.6	2239.1	2245.4	2247.5	2252.8
32.5°	2057.4	2065.8	2072.1	2071.1	2075.3	2086.8	2082.6	2092.1
35°	1900.9	1902.0	1912.5	1911.5	1919.9	1919.9	1919.9	1926.2
37.5°	1734.0	1746.6	1741.3	1753.9	1749.7	1752.9	1752.9	1755.0
40°	1581.7	1585.9	1585.9	1590.1	1593.2	1590.1	1592.2	1597.4
42.5°	1424.1	1428.3	1429.4	1427.3	1430.4	1439.9	1432.5	1438.8
45°	1277.1	1280.3	1284.5	1281.3	1286.6	1283.4	1286.6	1284.5
47.5°	1138.5	1137.4	1136.4	1144.8	1137.4	1138.5	1142.7	1135.3
50°	996.7	1003.0	998.8	1001.9	1004.0	1004.0	1000.9	1000.9
52.5°	870.7	869.6	866.5	869.6	867.5	868.6	870.7	868.6
55°	740.4	744.6	742.5	741.5	742.5	742.5	748.8	740.4
57.5°	612.3	610.2	613.3	620.7	613.3	618.6	621.7	622.8
60°	490.5	490.5	496.8	493.6	499.9	505.2	509.4	507.3
62.5°	373.9	379.1	381.2	382.3	388.6	392.8	392.8	391.7
65°	277.3	284.6	284.6	288.8	290.9	290.9	293.0	297.2
67.5°	204.8	204.8	205.8	207.9	206.9	206.9	209.0	210.0
70°	142.8	140.7	143.9	142.8	142.8	141.8	142.8	142.8
72.5°	90.3	90.3	91.4	90.3	88.2	89.3	89.3	91.4
75°	48.3	50.4	48.3	48.3	49.4	47.3	48.3	49.4
77.5°	20.0	20.0	20.0	20.0	20.0	18.9	18.9	18.9
80°	9.5	9.5	9.5	9.5	9.5	9.5	8.4	8.4
82.5°	4.2	5.3	4.2	5.3	4.2	4.2	4.2	4.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	1.1	0.0	1.1	0.0	0.0	0.0	1.1
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)