

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: P859388

Luminaire Tested: **LX4C65D010 EX4C659040 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859388  
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: LX4C65D010 EX4C659040 4LBLWW\*  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

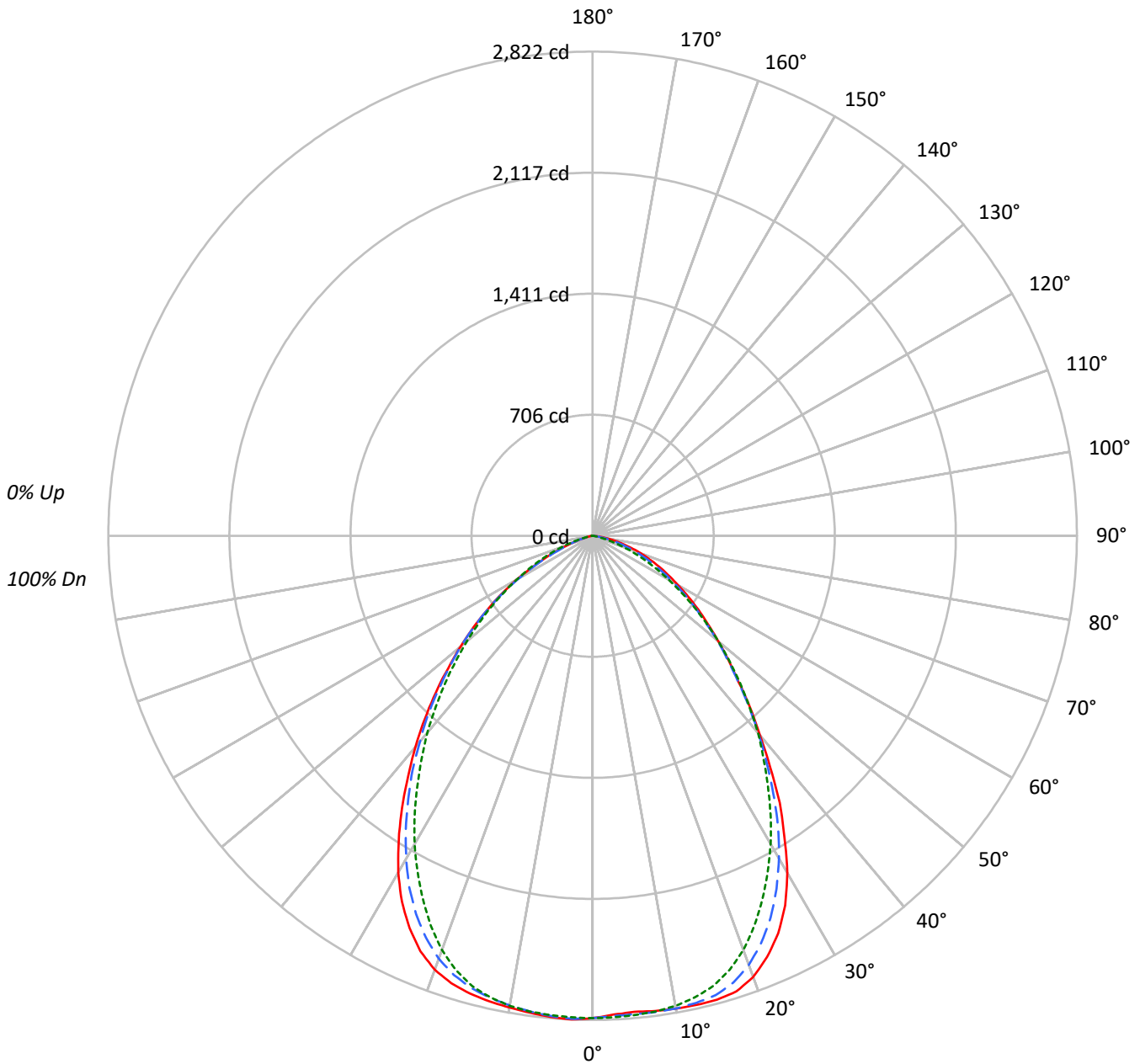
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5390.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 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): 72.4  
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

TEST NUMBER: P859388

CATALOG NUMBER: LX4C65D010 EX4C659040 4LBLWW\*

### Luminous Intensity Polar Plot





TEST NUMBER: P859388

CATALOG NUMBER: LX4C65D010 EX4C659040 4LBLWW\*

**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	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°	345390	345390	345390
5°	343454	345797	347104
10°	349134	347038	348348
15°	355959	345492	351266
20°	357764	335813	351829
25°	346747	317128	342029
30°	321850	294286	321240
35°	285000	266958	290384
40°	242966	240416	257528
45°	208732	211113	224334
50°	182200	182602	192292
55°	161005	154216	159420
60°	141110	125802	125286
65°	124912	97587	86860
70°	106575	67134	51581
75°	86200	36075	23544
80°	59004	8985	5943
85°	17902	2960	2960



TEST NUMBER: P859388

CATALOG NUMBER: LX4C65D010 EX4C659040 4LBLWW\*

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.2	5.0
10°-20°	773.5	14.4
20°-30°	1117.6	20.7
30°-40°	1155.4	21.4
40°-50°	954.7	17.7
50°-60°	658.9	12.2
60°-70°	344.9	6.4
70°-80°	108.6	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°	2158.3	40.0
0°-40°	3313.7	61.5
0°-60°	4927.3	91.4
0°-90°	5390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5390.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2811	2811	2811	2811	2811	
5°	2785	2799	2804	2809	2815	267
15°	2799	2772	2716	2729	2762	790
25°	2558	2455	2340	2434	2523	1168
35°	1900	1837	1780	1873	1936	1180
45°	1201	1196	1215	1271	1291	937
55°	752	728	720	740	744	675
65°	430	390	336	279	299	426
75°	182	142	76	52	50	195
85°	13	6	2	2	2	26
90°	0	0	0	0	0	



TEST NUMBER: P859388

CATALOG NUMBER: LX4C65D010 EX4C659040 4LBLWW\*

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4
2.5°	2793.5	2794.5	2794.5	2796.6	2796.6	2796.6	2797.7	2797.7	2798.7	2799.8	2800.9
5°	2785.0	2785.0	2787.1	2788.2	2790.3	2791.4	2793.5	2794.5	2796.6	2797.7	2798.7
7.5°	2793.5	2793.5	2794.5	2795.6	2795.6	2796.6	2796.6	2797.7	2798.7	2799.8	2799.8
10°	2798.7	2798.7	2798.7	2798.7	2799.8	2799.8	2799.8	2798.7	2798.7	2798.7	2797.7
12.5°	2800.9	2800.9	2799.8	2798.7	2799.8	2798.7	2798.7	2795.6	2793.5	2791.4	2788.2
15°	2798.7	2798.7	2797.7	2796.6	2795.6	2793.5	2792.4	2787.1	2782.9	2776.6	2772.4
17.5°	2785.0	2782.9	2780.8	2778.7	2774.5	2771.3	2769.2	2759.7	2752.3	2741.7	2730.1
20°	2736.5	2734.3	2731.2	2725.9	2720.6	2716.4	2710.1	2696.3	2689.0	2673.1	2661.5
22.5°	2657.3	2655.2	2656.2	2646.7	2636.2	2629.8	2625.6	2614.0	2601.3	2581.3	2568.6
25°	2558.0	2551.7	2551.7	2536.9	2531.6	2527.4	2522.1	2508.4	2489.4	2471.5	2454.6
27.5°	2429.2	2420.8	2416.6	2414.5	2401.8	2392.3	2384.9	2374.3	2358.5	2342.7	2319.4
30°	2268.8	2267.7	2262.4	2252.9	2243.4	2239.2	2230.8	2212.8	2198.0	2186.4	2171.6
32.5°	2079.8	2078.7	2078.7	2078.7	2072.4	2071.3	2058.7	2049.2	2037.6	2019.6	2010.1
35°	1900.3	1899.3	1900.3	1884.5	1880.3	1877.1	1876.0	1869.7	1853.9	1845.4	1837.0
37.5°	1697.6	1700.8	1698.7	1694.5	1699.7	1690.2	1697.6	1683.9	1677.6	1675.4	1665.9
40°	1515.0	1523.4	1515.0	1516.0	1521.3	1511.8	1511.8	1509.7	1505.5	1503.4	1501.3
42.5°	1358.7	1348.2	1354.5	1349.2	1354.5	1351.3	1346.1	1349.2	1350.3	1346.1	1345.0
45°	1201.4	1203.5	1205.6	1202.5	1202.5	1199.3	1207.8	1202.5	1202.5	1203.5	1196.1
47.5°	1073.7	1070.5	1072.6	1070.5	1071.6	1069.5	1071.6	1072.6	1070.5	1070.5	1064.2
50°	953.3	951.2	958.6	952.3	952.3	951.2	952.3	950.2	947.0	947.0	949.1
52.5°	848.8	844.6	843.5	848.8	841.4	841.4	842.5	840.4	836.1	834.0	828.7
55°	751.7	750.6	751.7	747.5	745.3	745.3	740.1	738.0	736.9	731.6	728.5
57.5°	660.9	657.7	658.8	657.7	653.5	652.4	648.2	648.2	644.0	639.8	634.5
60°	574.3	574.3	577.5	573.3	570.1	568.0	565.9	563.8	556.4	549.0	542.6
62.5°	497.2	498.3	497.2	494.1	492.0	489.9	487.7	481.4	475.1	470.9	463.5
65°	429.7	428.6	425.5	423.3	418.1	418.1	413.8	410.7	403.3	397.0	389.6
67.5°	360.0	357.9	357.9	357.9	351.6	350.5	348.4	342.1	335.7	327.3	320.9
70°	296.7	298.8	295.6	292.4	289.3	288.2	285.0	278.7	271.3	262.9	257.6
72.5°	236.5	238.6	235.4	234.4	228.0	225.9	224.9	219.6	211.1	205.9	197.4
75°	181.6	182.6	180.5	178.4	174.2	173.1	167.9	163.6	158.4	149.9	142.5
77.5°	130.9	128.8	128.8	124.6	120.4	120.4	119.3	113.0	105.6	99.2	92.9
80°	83.4	82.3	79.2	77.1	73.9	72.8	71.8	66.5	61.2	57.0	52.8
82.5°	42.2	41.2	40.1	39.1	37.0	34.8	35.9	31.7	29.6	25.3	22.2
85°	12.7	13.7	13.7	12.7	11.6	11.6	11.6	10.6	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



TEST NUMBER: P859388

CATALOG NUMBER: LX4C65D010 EX4C659040 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4
2.5°	2801.9	2803.0	2804.0	2805.1	2805.1	2806.1	2807.2	2808.2	2809.3	2809.3	2810.4
5°	2799.8	2801.9	2801.9	2803.0	2803.0	2803.0	2804.0	2804.0	2804.0	2804.0	2805.1
7.5°	2800.9	2800.9	2800.9	2799.8	2799.8	2798.7	2798.7	2798.7	2796.6	2796.6	2796.6
10°	2795.6	2794.5	2793.5	2791.4	2790.3	2789.2	2787.1	2785.0	2782.9	2781.9	2779.7
12.5°	2785.0	2780.8	2776.6	2772.4	2770.2	2769.2	2765.0	2761.8	2758.6	2755.5	2753.4
15°	2763.9	2757.6	2750.2	2741.7	2739.6	2737.5	2730.1	2723.8	2719.6	2716.4	2711.1
17.5°	2721.7	2709.0	2700.6	2687.9	2682.6	2680.5	2668.9	2662.6	2655.2	2653.1	2648.8
20°	2646.7	2635.1	2619.3	2607.7	2601.3	2595.0	2585.5	2577.0	2568.6	2568.6	2563.3
22.5°	2552.8	2538.0	2517.9	2503.1	2502.1	2489.4	2481.0	2471.5	2468.3	2462.0	2462.0
25°	2434.5	2421.9	2399.7	2387.0	2380.7	2377.5	2363.8	2351.1	2344.8	2339.5	2343.7
27.5°	2303.6	2284.6	2267.7	2251.9	2246.6	2240.3	2227.6	2222.3	2210.7	2209.6	2208.6
30°	2153.7	2134.7	2117.8	2110.4	2099.9	2094.6	2085.1	2078.7	2074.5	2074.5	2072.4
32.5°	1996.4	1979.5	1971.1	1955.2	1949.9	1942.5	1936.2	1929.9	1932.0	1929.9	1930.9
35°	1826.4	1822.2	1806.4	1796.9	1796.9	1795.8	1785.2	1781.0	1778.9	1780.0	1785.2
37.5°	1664.9	1652.2	1641.7	1635.3	1640.6	1634.3	1633.2	1633.2	1639.6	1635.3	1643.8
40°	1492.8	1491.7	1487.5	1489.6	1490.7	1483.3	1485.4	1486.5	1490.7	1499.1	1500.2
42.5°	1342.9	1341.8	1341.8	1341.8	1339.7	1335.5	1339.7	1347.1	1346.1	1352.4	1357.7
45°	1198.3	1196.1	1200.4	1197.2	1203.5	1205.6	1202.5	1204.6	1210.9	1215.1	1223.6
47.5°	1066.3	1066.3	1067.3	1069.5	1063.1	1068.4	1070.5	1074.7	1077.9	1080.0	1084.2
50°	943.8	943.8	941.7	941.7	941.7	944.9	940.7	945.9	947.0	955.4	960.7
52.5°	830.9	825.6	828.7	826.6	822.4	820.3	822.4	823.5	829.8	831.9	838.3
55°	723.2	723.2	714.7	712.6	715.8	714.7	713.7	713.7	716.8	720.0	725.3
57.5°	628.2	621.8	615.5	614.4	611.3	612.3	612.3	611.3	609.2	610.2	611.3
60°	538.4	534.2	524.7	524.7	523.6	522.6	517.3	516.3	511.0	512.0	507.8
62.5°	456.1	454.0	441.3	437.1	437.1	433.9	428.6	427.6	420.2	420.2	416.0
65°	382.2	375.8	368.5	361.1	361.1	356.8	353.7	344.2	338.9	335.7	329.4
67.5°	314.6	305.1	297.7	291.4	287.2	286.1	278.7	272.4	263.9	258.7	249.2
70°	249.2	241.8	234.4	228.0	223.8	219.6	212.2	202.7	196.4	186.9	180.5
72.5°	187.9	181.6	175.3	166.8	161.5	158.4	151.0	142.5	132.0	125.6	117.2
75°	135.1	127.7	119.3	111.9	108.7	105.6	97.1	90.8	83.4	76.0	67.6
77.5°	87.6	79.2	72.8	64.4	63.3	61.2	52.8	46.5	41.2	37.0	31.7
80°	46.5	42.2	37.0	31.7	29.6	26.4	22.2	19.0	15.8	12.7	10.6
82.5°	20.1	16.9	13.7	11.6	10.6	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



TEST NUMBER: P859388

CATALOG NUMBER: LX4C65D010 EX4C659040 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4
2.5°	2811.4	2812.5	2813.5	2813.5	2814.6	2815.6	2815.6	2816.7	2817.7	2818.8	2818.8
5°	2806.1	2806.1	2806.1	2807.2	2807.2	2807.2	2807.2	2809.3	2809.3	2810.4	2811.4
7.5°	2795.6	2795.6	2795.6	2795.6	2794.5	2795.6	2794.5	2794.5	2796.6	2797.7	2798.7
10°	2778.7	2777.6	2777.6	2776.6	2776.6	2776.6	2777.6	2778.7	2779.7	2780.8	2784.0
12.5°	2752.3	2751.2	2751.2	2750.2	2750.2	2751.2	2752.3	2754.4	2758.6	2760.7	2765.0
15°	2710.1	2709.0	2710.1	2711.1	2713.2	2716.4	2719.6	2722.7	2729.1	2734.3	2739.6
17.5°	2648.8	2649.9	2650.9	2653.1	2656.2	2660.4	2668.9	2677.3	2684.7	2693.2	2701.6
20°	2564.4	2568.6	2569.7	2577.0	2579.2	2588.7	2598.2	2610.8	2622.4	2633.0	2644.6
22.5°	2463.0	2466.2	2470.4	2478.9	2484.1	2496.8	2508.4	2523.2	2535.9	2549.6	2566.5
25°	2347.9	2349.0	2361.7	2361.7	2374.3	2384.9	2398.6	2414.5	2433.5	2451.4	2463.0
27.5°	2217.0	2222.3	2231.8	2236.0	2245.5	2262.4	2274.0	2293.1	2312.1	2327.9	2340.6
30°	2079.8	2084.0	2099.9	2102.0	2109.4	2124.1	2140.0	2157.9	2172.7	2190.6	2202.3
32.5°	1935.2	1946.8	1956.3	1963.7	1965.8	1987.9	1996.4	2009.1	2026.0	2043.9	2055.5
35°	1794.7	1800.0	1813.7	1818.0	1824.3	1837.0	1853.9	1864.4	1872.9	1884.5	1898.2
37.5°	1645.9	1661.7	1664.9	1677.6	1679.7	1691.3	1699.7	1712.4	1723.0	1733.5	1735.6
40°	1507.6	1512.9	1524.5	1527.6	1529.8	1545.6	1556.1	1559.3	1564.6	1574.1	1586.8
42.5°	1367.2	1372.5	1385.1	1382.0	1391.5	1398.8	1404.1	1416.8	1422.1	1425.2	1425.2
45°	1228.9	1231.0	1239.4	1243.7	1248.9	1253.2	1262.7	1269.0	1271.1	1280.6	1283.8
47.5°	1096.9	1099.0	1105.4	1112.7	1110.6	1115.9	1126.5	1129.6	1130.7	1137.0	1140.2
50°	967.1	972.3	980.8	978.7	985.0	988.2	997.7	999.8	999.8	1000.8	1001.9
52.5°	845.6	849.9	852.0	854.1	857.3	862.5	866.8	864.6	868.9	873.1	869.9
55°	725.3	728.5	733.7	735.8	735.8	736.9	734.8	744.3	740.1	739.0	740.1
57.5°	615.5	611.3	610.2	615.5	617.6	616.5	613.4	617.6	617.6	615.5	612.3
60°	508.9	505.7	504.6	505.7	501.5	498.3	500.4	498.3	493.0	490.9	492.0
62.5°	411.7	408.6	400.1	400.1	398.0	397.0	388.5	389.6	385.3	379.0	381.1
65°	322.0	313.6	309.3	308.3	300.9	294.5	292.4	285.0	278.7	277.7	278.7
67.5°	241.8	232.3	224.9	221.7	217.5	212.2	204.8	198.5	200.6	199.5	203.8
70°	167.9	161.5	154.1	148.9	151.0	144.6	140.4	140.4	141.5	142.5	144.6
72.5°	111.9	103.5	100.3	97.1	95.0	90.8	92.9	92.9	91.8	92.9	90.8
75°	63.3	59.1	56.0	54.9	52.8	52.8	52.8	52.8	51.7	50.7	50.7
77.5°	28.5	26.4	25.3	24.3	24.3	24.3	23.2	22.2	22.2	22.2	21.1
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: P859388

CATALOG NUMBER: LX4C65D010 EX4C659040 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4
2.5°	2819.9	2820.9	2820.9	2820.9	2822.0	2822.0	2822.0	2822.0
5°	2812.5	2813.5	2813.5	2813.5	2814.6	2814.6	2814.6	2814.6
7.5°	2799.8	2800.9	2800.9	2801.9	2801.9	2803.0	2803.0	2804.0
10°	2785.0	2787.1	2788.2	2789.2	2790.3	2791.4	2791.4	2792.4
12.5°	2769.2	2771.3	2772.4	2774.5	2776.6	2777.6	2778.7	2779.7
15°	2746.0	2750.2	2752.3	2753.4	2757.6	2759.7	2760.7	2761.8
17.5°	2709.0	2717.5	2720.6	2722.7	2727.0	2731.2	2734.3	2735.4
20°	2656.2	2665.7	2669.9	2675.2	2681.6	2686.8	2689.0	2691.1
22.5°	2582.3	2592.9	2599.2	2605.5	2610.8	2616.1	2624.6	2621.4
25°	2476.7	2494.7	2502.1	2505.3	2516.9	2523.2	2527.4	2523.2
27.5°	2358.5	2369.1	2375.4	2382.8	2391.2	2397.6	2399.7	2406.0
30°	2216.0	2233.9	2232.9	2240.3	2250.8	2257.2	2259.3	2264.5
32.5°	2068.2	2076.6	2083.0	2081.9	2086.1	2097.7	2093.5	2103.0
35°	1910.9	1911.9	1922.5	1921.4	1929.9	1929.9	1929.9	1936.2
37.5°	1743.0	1755.7	1750.4	1763.1	1758.9	1762.0	1762.0	1764.1
40°	1589.9	1594.2	1594.2	1598.4	1601.5	1598.4	1600.5	1605.8
42.5°	1431.6	1435.8	1436.9	1434.7	1437.9	1447.4	1440.0	1446.4
45°	1283.8	1286.9	1291.2	1288.0	1293.3	1290.1	1293.3	1291.2
47.5°	1144.4	1143.4	1142.3	1150.7	1143.4	1144.4	1148.6	1141.2
50°	1001.9	1008.2	1004.0	1007.2	1009.3	1009.3	1006.1	1006.1
52.5°	875.2	874.1	871.0	874.1	872.0	873.1	875.2	873.1
55°	744.3	748.5	746.4	745.3	746.4	746.4	752.7	744.3
57.5°	615.5	613.4	616.5	623.9	616.5	621.8	625.0	626.0
60°	493.0	493.0	499.4	496.2	502.5	507.8	512.0	509.9
62.5°	375.8	381.1	383.2	384.3	390.6	394.8	394.8	393.8
65°	278.7	286.1	286.1	290.3	292.4	292.4	294.5	298.8
67.5°	205.9	205.9	206.9	209.0	208.0	208.0	210.1	211.1
70°	143.6	141.5	144.6	143.6	143.6	142.5	143.6	143.6
72.5°	90.8	90.8	91.8	90.8	88.7	89.7	89.7	91.8
75°	48.6	50.7	48.6	48.6	49.6	47.5	48.6	49.6
77.5°	20.1	20.1	20.1	20.1	20.1	19.0	19.0	19.0
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)