

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: P859367

Luminaire Tested: **LX4C65D010 EX4C659035 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859367  
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 EX4C659035 4LBLWW\*  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

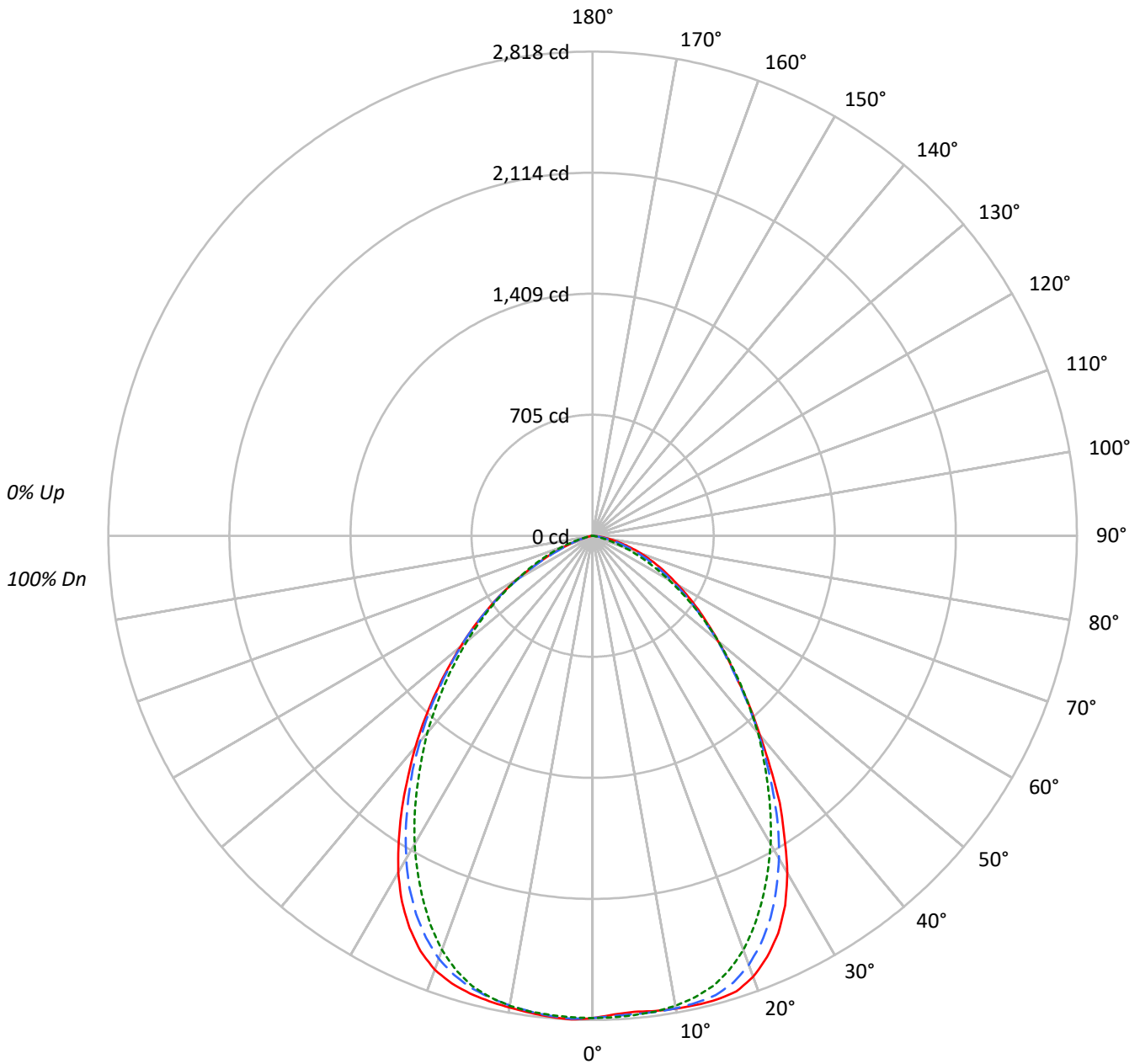
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5382.0 lumens  
Efficiency: N/A  
Efficacy: 74.3 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: P859367

CATALOG NUMBER: LX4C65D010 EX4C659035 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°	344874	344874	344874
5°	342948	345291	346586
10°	348623	346514	347837
15°	355438	344983	350744
20°	357228	335317	351306
25°	346232	316654	341528
30°	321367	293847	320772
35°	284580	266553	289949
40°	242597	240064	257143
45°	208420	210800	223987
50°	181933	182334	192005
55°	160770	153980	159185
60°	140913	125630	125114
65°	124709	97441	86715
70°	106395	67027	51509
75°	86058	36027	23496
80°	58933	8914	5943
85°	17761	2960	2960



TEST NUMBER: P859367

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	5.0
10°-20°	772.3	14.4
20°-30°	1116.0	20.7
30°-40°	1153.7	21.4
40°-50°	953.3	17.7
50°-60°	657.9	12.2
60°-70°	344.4	6.4
70°-80°	108.4	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°	2155.1	40.0
0°-40°	3308.8	61.5
0°-60°	4920.0	91.4
0°-90°	5382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2807	2807	2807	2807	2807	
5°	2781	2795	2800	2805	2810	266
15°	2795	2768	2712	2725	2758	788
25°	2554	2451	2336	2430	2520	1166
35°	1898	1834	1777	1870	1933	1178
45°	1200	1194	1213	1269	1289	935
55°	751	727	719	739	743	674
65°	429	389	335	278	298	425
75°	181	142	76	52	50	194
85°	13	6	2	2	2	26
90°	0	0	0	0	0	



TEST NUMBER: P859367

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2
2.5°	2789.3	2790.4	2790.4	2792.5	2792.5	2792.5	2793.5	2793.5	2794.6	2795.6	2796.7
5°	2780.9	2780.9	2783.0	2784.1	2786.2	2787.2	2789.3	2790.4	2792.5	2793.5	2794.6
7.5°	2789.3	2789.3	2790.4	2791.4	2791.4	2792.5	2792.5	2793.5	2794.6	2795.6	2795.6
10°	2794.6	2794.6	2794.6	2794.6	2795.6	2795.6	2795.6	2794.6	2794.6	2794.6	2793.5
12.5°	2796.7	2796.7	2795.6	2794.6	2795.6	2794.6	2794.6	2791.4	2789.3	2787.2	2784.1
15°	2794.6	2794.6	2793.5	2792.5	2791.4	2789.3	2788.3	2783.0	2778.8	2772.5	2768.2
17.5°	2780.9	2778.8	2776.7	2774.6	2770.3	2767.2	2765.1	2755.6	2748.2	2737.7	2726.1
20°	2732.4	2730.3	2727.1	2721.9	2716.6	2712.4	2706.0	2692.3	2685.0	2669.1	2657.6
22.5°	2653.3	2651.2	2652.3	2642.8	2632.3	2625.9	2621.7	2610.1	2597.5	2577.4	2564.8
25°	2554.2	2547.9	2547.9	2533.2	2527.9	2523.7	2518.4	2504.7	2485.7	2467.8	2450.9
27.5°	2425.6	2417.2	2413.0	2410.9	2398.2	2388.7	2381.4	2370.8	2355.0	2339.2	2316.0
30°	2265.4	2264.3	2259.1	2249.6	2240.1	2235.9	2227.5	2209.5	2194.8	2183.2	2168.4
32.5°	2076.7	2075.7	2075.7	2075.7	2069.3	2068.3	2055.6	2046.1	2034.5	2016.6	2007.1
35°	1897.5	1896.4	1897.5	1881.7	1877.5	1874.3	1873.3	1866.9	1851.1	1842.7	1834.2
37.5°	1695.1	1698.3	1696.2	1691.9	1697.2	1687.7	1695.1	1681.4	1675.1	1673.0	1663.5
40°	1512.7	1521.2	1512.7	1513.8	1519.1	1509.6	1509.6	1507.5	1503.2	1501.1	1499.0
42.5°	1356.7	1346.2	1352.5	1347.2	1352.5	1349.3	1344.1	1347.2	1348.3	1344.1	1343.0
45°	1199.6	1201.7	1203.9	1200.7	1200.7	1197.5	1206.0	1200.7	1200.7	1201.7	1194.4
47.5°	1072.1	1068.9	1071.0	1068.9	1070.0	1067.9	1070.0	1071.0	1068.9	1068.9	1062.6
50°	951.9	949.8	957.2	950.9	950.9	949.8	950.9	948.7	945.6	945.6	947.7
52.5°	847.5	843.3	842.3	847.5	840.2	840.2	841.2	839.1	834.9	832.8	827.5
55°	750.6	749.5	750.6	746.3	744.2	744.2	739.0	736.9	735.8	730.5	727.4
57.5°	659.9	656.7	657.8	656.7	652.5	651.5	647.3	647.3	643.0	638.8	633.6
60°	573.5	573.5	576.6	572.4	569.2	567.1	565.0	562.9	555.5	548.2	541.8
62.5°	496.5	497.6	496.5	493.3	491.2	489.1	487.0	480.7	474.4	470.2	462.8
65°	429.0	428.0	424.8	422.7	417.4	417.4	413.2	410.1	402.7	396.4	389.0
67.5°	359.5	357.4	357.4	357.4	351.0	350.0	347.9	341.5	335.2	326.8	320.5
70°	296.2	298.3	295.2	292.0	288.8	287.8	284.6	278.3	270.9	262.5	257.2
72.5°	236.1	238.2	235.1	234.0	227.7	225.6	224.5	219.3	210.8	205.6	197.1
75°	181.3	182.4	180.3	178.2	173.9	172.9	167.6	163.4	158.1	149.7	142.3
77.5°	130.7	128.6	128.6	124.4	120.2	120.2	119.1	112.8	105.4	99.1	92.8
80°	83.3	82.2	79.1	77.0	73.8	72.7	71.7	66.4	61.1	56.9	52.7
82.5°	42.2	41.1	40.1	39.0	36.9	34.8	35.8	31.6	29.5	25.3	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



TEST NUMBER: P859367

CATALOG NUMBER: LX4C65D010 EX4C659035 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2
2.5°	2797.8	2798.8	2799.9	2800.9	2800.9	2802.0	2803.0	2804.1	2805.1	2805.1	2806.2
5°	2795.6	2797.8	2797.8	2798.8	2798.8	2798.8	2799.9	2799.9	2799.9	2799.9	2800.9
7.5°	2796.7	2796.7	2796.7	2795.6	2795.6	2794.6	2794.6	2794.6	2792.5	2792.5	2792.5
10°	2791.4	2790.4	2789.3	2787.2	2786.2	2785.1	2783.0	2780.9	2778.8	2777.7	2775.6
12.5°	2780.9	2776.7	2772.5	2768.2	2766.1	2765.1	2760.9	2757.7	2754.5	2751.4	2749.3
15°	2759.8	2753.5	2746.1	2737.7	2735.6	2733.5	2726.1	2719.7	2715.5	2712.4	2707.1
17.5°	2717.6	2705.0	2696.6	2683.9	2678.6	2676.5	2664.9	2658.6	2651.2	2649.1	2644.9
20°	2642.8	2631.2	2615.4	2603.8	2597.5	2591.1	2581.7	2573.2	2564.8	2564.8	2559.5
22.5°	2549.0	2534.2	2514.2	2499.4	2498.4	2485.7	2477.3	2467.8	2464.6	2458.3	2458.3
25°	2430.9	2418.3	2396.1	2383.5	2377.1	2374.0	2360.3	2347.6	2341.3	2336.0	2340.2
27.5°	2300.2	2281.2	2264.3	2248.5	2243.3	2236.9	2224.3	2219.0	2207.4	2206.4	2205.3
30°	2150.5	2131.5	2114.7	2107.3	2096.7	2091.5	2082.0	2075.7	2071.4	2071.4	2069.3
32.5°	1993.4	1976.6	1968.1	1952.3	1947.0	1939.7	1933.3	1927.0	1929.1	1927.0	1928.1
35°	1823.7	1819.5	1803.7	1794.2	1794.2	1793.1	1782.6	1778.4	1776.3	1777.3	1782.6
37.5°	1662.4	1649.8	1639.2	1632.9	1638.2	1631.8	1630.8	1630.8	1637.1	1632.9	1641.3
40°	1490.6	1489.5	1485.3	1487.4	1488.5	1481.1	1483.2	1484.3	1488.5	1496.9	1498.0
42.5°	1340.9	1339.8	1339.8	1339.8	1337.7	1333.5	1337.7	1345.1	1344.1	1350.4	1355.7
45°	1196.5	1194.4	1198.6	1195.4	1201.7	1203.9	1200.7	1202.8	1209.1	1213.3	1221.8
47.5°	1064.7	1064.7	1065.8	1067.9	1061.5	1066.8	1068.9	1073.1	1076.3	1078.4	1082.6
50°	942.4	942.4	940.3	940.3	940.3	943.5	939.3	944.5	945.6	954.0	959.3
52.5°	829.6	824.4	827.5	825.4	821.2	819.1	821.2	822.2	828.6	830.7	837.0
55°	722.1	722.1	713.7	711.6	714.7	713.7	712.6	712.6	715.8	718.9	724.2
57.5°	627.2	620.9	614.6	613.5	610.4	611.4	611.4	610.4	608.3	609.3	610.4
60°	537.6	533.4	523.9	523.9	522.9	521.8	516.5	515.5	510.2	511.3	507.1
62.5°	455.4	453.3	440.6	436.4	436.4	433.3	428.0	426.9	419.6	419.6	415.3
65°	381.6	375.3	367.9	360.5	360.5	356.3	353.1	343.7	338.4	335.2	328.9
67.5°	314.1	304.7	297.3	290.9	286.7	285.7	278.3	272.0	263.5	258.3	248.8
70°	248.8	241.4	234.0	227.7	223.5	219.3	211.9	202.4	196.1	186.6	180.3
72.5°	187.6	181.3	175.0	166.6	161.3	158.1	150.7	142.3	131.8	125.4	117.0
75°	134.9	127.6	119.1	111.7	108.6	105.4	97.0	90.7	83.3	75.9	67.5
77.5°	87.5	79.1	72.7	64.3	63.2	61.1	52.7	46.4	41.1	36.9	31.6
80°	46.4	42.2	36.9	31.6	29.5	26.4	22.1	19.0	15.8	12.6	10.5
82.5°	20.0	16.9	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



TEST NUMBER: P859367

CATALOG NUMBER: LX4C65D010 EX4C659035 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2
2.5°	2807.2	2808.3	2809.4	2809.4	2810.4	2811.5	2811.5	2812.5	2813.6	2814.6	2814.6
5°	2802.0	2802.0	2802.0	2803.0	2803.0	2803.0	2803.0	2805.1	2805.1	2806.2	2807.2
7.5°	2791.4	2791.4	2791.4	2791.4	2790.4	2791.4	2790.4	2790.4	2792.5	2793.5	2794.6
10°	2774.6	2773.5	2773.5	2772.5	2772.5	2772.5	2773.5	2774.6	2775.6	2776.7	2779.8
12.5°	2748.2	2747.2	2747.2	2746.1	2746.1	2747.2	2748.2	2750.3	2754.5	2756.6	2760.9
15°	2706.0	2705.0	2706.0	2707.1	2709.2	2712.4	2715.5	2718.7	2725.0	2730.3	2735.6
17.5°	2644.9	2646.0	2647.0	2649.1	2652.3	2656.5	2664.9	2673.4	2680.7	2689.2	2697.6
20°	2560.6	2564.8	2565.8	2573.2	2575.3	2584.8	2594.3	2607.0	2618.5	2629.1	2640.7
22.5°	2459.4	2462.5	2466.7	2475.2	2480.5	2493.1	2504.7	2519.5	2532.1	2545.8	2562.7
25°	2344.5	2345.5	2358.2	2358.2	2370.8	2381.4	2395.1	2410.9	2429.9	2447.8	2459.4
27.5°	2213.7	2219.0	2228.5	2232.7	2242.2	2259.1	2270.7	2289.6	2308.6	2324.4	2337.1
30°	2076.7	2080.9	2096.7	2098.8	2106.2	2121.0	2136.8	2154.7	2169.5	2187.4	2199.0
32.5°	1932.3	1943.9	1953.4	1960.7	1962.9	1985.0	1993.4	2006.1	2022.9	2040.9	2052.5
35°	1792.1	1797.4	1811.1	1815.3	1821.6	1834.2	1851.1	1861.7	1870.1	1881.7	1895.4
37.5°	1643.4	1659.3	1662.4	1675.1	1677.2	1688.8	1697.2	1709.9	1720.4	1730.9	1733.0
40°	1505.3	1510.6	1522.2	1525.4	1527.5	1543.3	1553.8	1557.0	1562.3	1571.8	1584.4
42.5°	1365.1	1370.4	1383.1	1379.9	1389.4	1396.8	1402.0	1414.7	1420.0	1423.1	1423.1
45°	1227.0	1229.2	1237.6	1241.8	1247.1	1251.3	1260.8	1267.1	1269.2	1278.7	1281.9
47.5°	1095.3	1097.4	1103.7	1111.1	1109.0	1114.3	1124.8	1128.0	1129.0	1135.3	1138.5
50°	965.6	970.9	979.3	977.2	983.5	986.7	996.2	998.3	998.3	999.3	1000.4
52.5°	844.4	848.6	850.7	852.8	856.0	861.3	865.5	863.4	867.6	871.8	868.6
55°	724.2	727.4	732.6	734.8	734.8	735.8	733.7	743.2	739.0	737.9	739.0
57.5°	614.6	610.4	609.3	614.6	616.7	615.6	612.5	616.7	616.7	614.6	611.4
60°	508.1	504.9	503.9	504.9	500.7	497.6	499.7	497.6	492.3	490.2	491.2
62.5°	411.1	408.0	399.5	399.5	397.4	396.4	387.9	389.0	384.8	378.4	380.6
65°	321.5	313.1	308.9	307.8	300.4	294.1	292.0	284.6	278.3	277.2	278.3
67.5°	241.4	231.9	224.5	221.4	217.2	211.9	204.5	198.2	200.3	199.2	203.5
70°	167.6	161.3	153.9	148.6	150.7	144.4	140.2	140.2	141.3	142.3	144.4
72.5°	111.7	103.3	100.1	97.0	94.9	90.7	92.8	92.8	91.7	92.8	90.7
75°	63.2	59.0	55.9	54.8	52.7	52.7	52.7	52.7	51.7	50.6	50.6
77.5°	28.5	26.4	25.3	24.2	24.2	24.2	23.2	22.1	22.1	22.1	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: P859367

CATALOG NUMBER: LX4C65D010 EX4C659035 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2	2807.2
2.5°	2815.7	2816.7	2816.7	2816.7	2817.8	2817.8	2817.8	2817.8
5°	2808.3	2809.4	2809.4	2809.4	2810.4	2810.4	2810.4	2810.4
7.5°	2795.6	2796.7	2796.7	2797.8	2797.8	2798.8	2798.8	2799.9
10°	2780.9	2783.0	2784.1	2785.1	2786.2	2787.2	2787.2	2788.3
12.5°	2765.1	2767.2	2768.2	2770.3	2772.5	2773.5	2774.6	2775.6
15°	2741.9	2746.1	2748.2	2749.3	2753.5	2755.6	2756.6	2757.7
17.5°	2705.0	2713.4	2716.6	2718.7	2722.9	2727.1	2730.3	2731.3
20°	2652.3	2661.8	2666.0	2671.3	2677.6	2682.9	2685.0	2687.1
22.5°	2578.5	2589.0	2595.4	2601.7	2607.0	2612.2	2620.7	2617.5
25°	2473.1	2491.0	2498.4	2501.5	2513.1	2519.5	2523.7	2519.5
27.5°	2355.0	2365.5	2371.9	2379.3	2387.7	2394.0	2396.1	2402.4
30°	2212.7	2230.6	2229.6	2236.9	2247.5	2253.8	2255.9	2261.2
32.5°	2065.1	2073.5	2079.9	2078.8	2083.0	2094.6	2090.4	2099.9
35°	1908.0	1909.1	1919.6	1918.6	1927.0	1927.0	1927.0	1933.3
37.5°	1740.4	1753.1	1747.8	1760.5	1756.2	1759.4	1759.4	1761.5
40°	1587.6	1591.8	1591.8	1596.0	1599.2	1596.0	1598.1	1603.4
42.5°	1429.4	1433.7	1434.7	1432.6	1435.8	1445.3	1437.9	1444.2
45°	1281.9	1285.0	1289.2	1286.1	1291.4	1288.2	1291.4	1289.2
47.5°	1142.7	1141.7	1140.6	1149.0	1141.7	1142.7	1146.9	1139.6
50°	1000.4	1006.7	1002.5	1005.7	1007.8	1007.8	1004.6	1004.6
52.5°	873.9	872.8	869.7	872.8	870.7	871.8	873.9	871.8
55°	743.2	747.4	745.3	744.2	745.3	745.3	751.6	743.2
57.5°	614.6	612.5	615.6	623.0	615.6	620.9	624.1	625.1
60°	492.3	492.3	498.6	495.5	501.8	507.1	511.3	509.2
62.5°	375.3	380.6	382.7	383.7	390.0	394.3	394.3	393.2
65°	278.3	285.7	285.7	289.9	292.0	292.0	294.1	298.3
67.5°	205.6	205.6	206.6	208.7	207.7	207.7	209.8	210.8
70°	143.4	141.3	144.4	143.4	143.4	142.3	143.4	143.4
72.5°	90.7	90.7	91.7	90.7	88.5	89.6	89.6	91.7
75°	48.5	50.6	48.5	48.5	49.5	47.4	48.5	49.5
77.5°	20.0	20.0	20.0	20.0	20.0	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)