

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: P859478

Luminaire Tested: **LX4C70D010 EX4C709035 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859478  
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 EX4C709035 4LBLWW\*  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

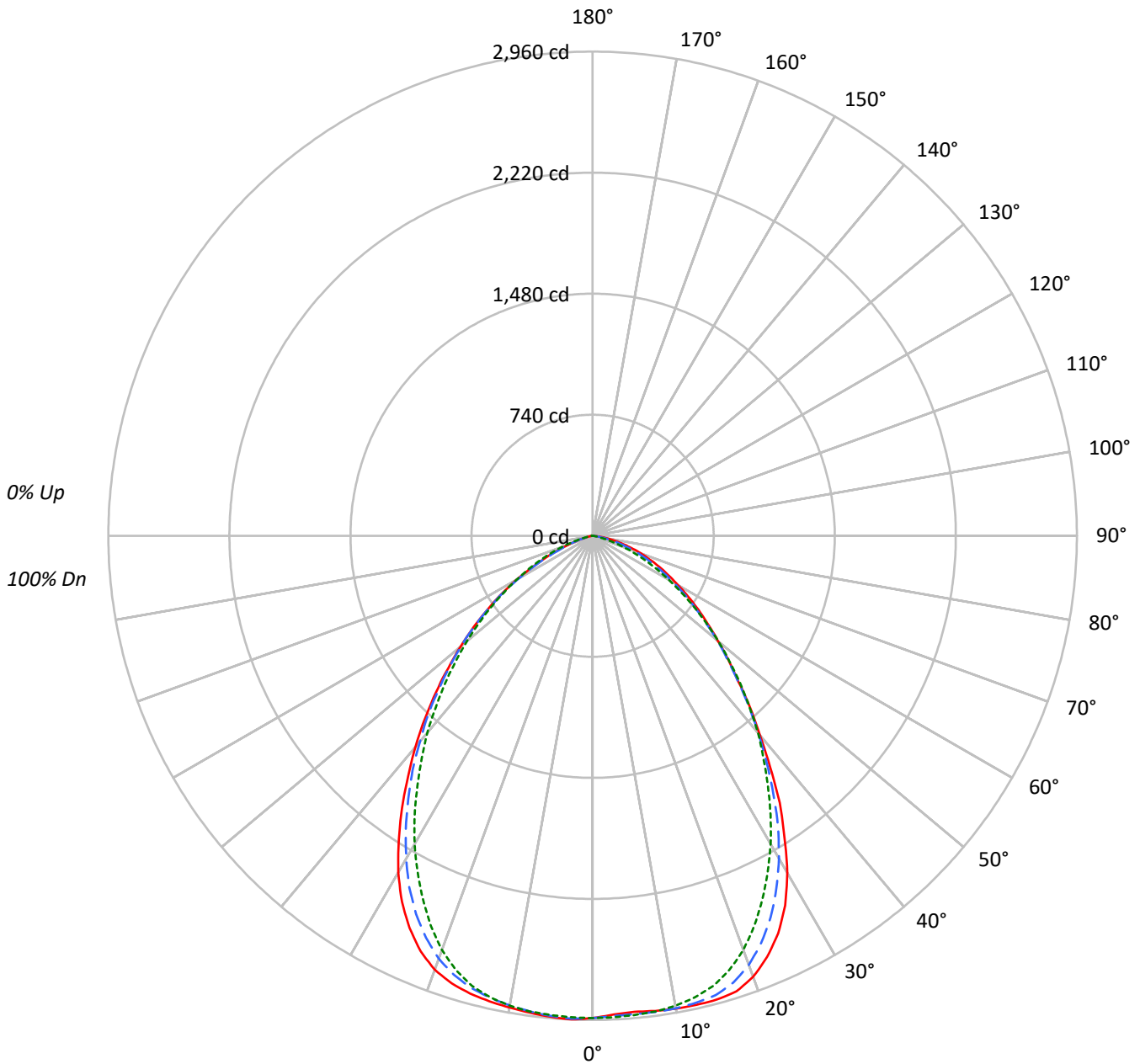
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5653.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 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 EX4C709035 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°	362246	362246	362246
5°	360213	362668	364036
10°	366175	363967	365351
15°	373333	362344	368411
20°	375218	352195	368995
25°	363677	332608	358716
30°	337553	308643	336915
35°	298903	279976	304557
40°	254818	252156	270086
45°	218914	221416	235280
50°	191088	191527	201676
55°	168866	161734	167196
60°	147989	131945	131404
65°	130988	102354	91104
70°	111747	70403	54095
75°	90377	37831	24683
80°	61905	9410	6297
85°	18747	3101	3101



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	5.0
10°-20°	811.2	14.4
20°-30°	1172.2	20.7
30°-40°	1211.8	21.4
40°-50°	1001.3	17.7
50°-60°	691.0	12.2
60°-70°	361.8	6.4
70°-80°	113.9	2.0
80°-90°	9.7	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°	2263.6	40.0
0°-40°	3475.4	61.5
0°-60°	5167.7	91.4
0°-90°	5653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5653.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2949	2949	2949	2949	2949	
5°	2921	2935	2941	2946	2952	280
15°	2935	2908	2849	2862	2897	828
25°	2683	2574	2454	2552	2646	1225
35°	1993	1927	1867	1964	2031	1237
45°	1260	1254	1274	1333	1354	982
55°	788	764	755	776	781	708
65°	451	409	352	292	313	446
75°	190	150	80	54	52	204
85°	13	7	2	2	2	28
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°	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6
2.5°	2929.8	2930.9	2930.9	2933.1	2933.1	2933.1	2934.2	2934.2	2935.3	2936.4	2937.5
5°	2920.9	2920.9	2923.1	2924.2	2926.5	2927.6	2929.8	2930.9	2933.1	2934.2	2935.3
7.5°	2929.8	2929.8	2930.9	2932.0	2932.0	2933.1	2933.1	2934.2	2935.3	2936.4	2936.4
10°	2935.3	2935.3	2935.3	2935.3	2936.4	2936.4	2936.4	2935.3	2935.3	2935.3	2934.2
12.5°	2937.5	2937.5	2936.4	2935.3	2936.4	2935.3	2935.3	2932.0	2929.8	2927.6	2924.2
15°	2935.3	2935.3	2934.2	2933.1	2932.0	2929.8	2928.7	2923.1	2918.7	2912.1	2907.6
17.5°	2920.9	2918.7	2916.5	2914.3	2909.8	2906.5	2904.3	2894.3	2886.6	2875.5	2863.3
20°	2870.0	2867.8	2864.4	2858.9	2853.4	2848.9	2842.3	2827.9	2820.2	2803.5	2791.4
22.5°	2786.9	2784.7	2785.8	2775.9	2764.8	2758.1	2753.7	2741.5	2728.3	2707.2	2693.9
25°	2682.9	2676.2	2676.2	2660.7	2655.2	2650.7	2645.2	2630.8	2610.9	2592.1	2574.3
27.5°	2547.8	2538.9	2534.5	2532.3	2519.0	2509.0	2501.3	2490.2	2473.6	2457.0	2432.6
30°	2379.5	2378.4	2372.8	2362.9	2352.9	2348.5	2339.6	2320.8	2305.3	2293.1	2277.6
32.5°	2181.3	2180.2	2180.2	2180.2	2173.5	2172.4	2159.1	2149.2	2137.0	2118.2	2108.2
35°	1993.0	1991.9	1993.0	1976.4	1972.0	1968.7	1967.6	1960.9	1944.3	1935.5	1926.6
37.5°	1780.5	1783.8	1781.6	1777.1	1782.7	1772.7	1780.5	1766.1	1759.4	1757.2	1747.2
40°	1588.9	1597.8	1588.9	1590.0	1595.5	1585.6	1585.6	1583.4	1578.9	1576.7	1574.5
42.5°	1425.0	1414.0	1420.6	1415.1	1420.6	1417.3	1411.7	1415.1	1416.2	1411.7	1410.6
45°	1260.0	1262.3	1264.5	1261.2	1261.2	1257.8	1266.7	1261.2	1261.2	1262.3	1254.5
47.5°	1126.1	1122.7	1125.0	1122.7	1123.9	1121.6	1123.9	1125.0	1122.7	1122.7	1116.1
50°	999.8	997.6	1005.4	998.7	998.7	997.6	998.7	996.5	993.2	993.2	995.4
52.5°	890.2	885.8	884.7	890.2	882.5	882.5	883.6	881.4	876.9	874.7	869.2
55°	788.4	787.3	788.4	783.9	781.7	781.7	776.2	774.0	772.9	767.3	764.0
57.5°	693.1	689.8	690.9	689.8	685.4	684.3	679.8	679.8	675.4	671.0	665.5
60°	602.3	602.3	605.7	601.2	597.9	595.7	593.5	591.3	583.5	575.8	569.1
62.5°	521.5	522.6	521.5	518.2	516.0	513.8	511.5	504.9	498.3	493.8	486.1
65°	450.6	449.5	446.2	444.0	438.5	438.5	434.0	430.7	423.0	416.3	408.6
67.5°	377.6	375.4	375.4	375.4	368.7	367.6	365.4	358.7	352.1	343.2	336.6
70°	311.1	313.4	310.0	306.7	303.4	302.3	299.0	292.3	284.6	275.7	270.2
72.5°	248.0	250.2	246.9	245.8	239.2	237.0	235.8	230.3	221.4	215.9	207.1
75°	190.4	191.6	189.3	187.1	182.7	181.6	176.1	171.6	166.1	157.2	149.5
77.5°	137.3	135.1	135.1	130.7	126.2	126.2	125.1	118.5	110.7	104.1	97.4
80°	87.5	86.4	83.0	80.8	77.5	76.4	75.3	69.8	64.2	59.8	55.4
82.5°	44.3	43.2	42.1	41.0	38.8	36.5	37.6	33.2	31.0	26.6	23.3
85°	13.3	14.4	14.4	13.3	12.2	12.2	12.2	11.1	8.9	7.8	6.6
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°	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6
2.5°	2938.6	2939.7	2940.8	2942.0	2942.0	2943.1	2944.2	2945.3	2946.4	2946.4	2947.5
5°	2936.4	2938.6	2938.6	2939.7	2939.7	2939.7	2940.8	2940.8	2940.8	2940.8	2942.0
7.5°	2937.5	2937.5	2937.5	2936.4	2936.4	2935.3	2935.3	2935.3	2933.1	2933.1	2933.1
10°	2932.0	2930.9	2929.8	2927.6	2926.5	2925.3	2923.1	2920.9	2918.7	2917.6	2915.4
12.5°	2920.9	2916.5	2912.1	2907.6	2905.4	2904.3	2899.9	2896.6	2893.2	2889.9	2887.7
15°	2898.8	2892.1	2884.4	2875.5	2873.3	2871.1	2863.3	2856.7	2852.3	2848.9	2843.4
17.5°	2854.5	2841.2	2832.3	2819.0	2813.5	2811.3	2799.1	2792.5	2784.7	2782.5	2778.1
20°	2775.9	2763.7	2747.1	2734.9	2728.3	2721.6	2711.6	2702.8	2693.9	2693.9	2688.4
22.5°	2677.3	2661.8	2640.8	2625.3	2624.2	2610.9	2602.0	2592.1	2588.7	2582.1	2582.1
25°	2553.3	2540.0	2516.8	2503.5	2496.8	2493.5	2479.1	2465.8	2459.2	2453.7	2458.1
27.5°	2416.0	2396.1	2378.4	2361.8	2356.2	2349.6	2336.3	2330.8	2318.6	2317.5	2316.4
30°	2258.8	2238.9	2221.1	2213.4	2202.3	2196.8	2186.8	2180.2	2175.7	2175.7	2173.5
32.5°	2093.8	2076.1	2067.2	2050.6	2045.1	2037.3	2030.7	2024.0	2026.3	2024.0	2025.2
35°	1915.5	1911.1	1894.5	1884.5	1884.5	1883.4	1872.4	1867.9	1865.7	1866.8	1872.4
37.5°	1746.1	1732.8	1721.8	1715.1	1720.7	1714.0	1712.9	1712.9	1719.6	1715.1	1724.0
40°	1565.6	1564.5	1560.1	1562.3	1563.4	1555.7	1557.9	1559.0	1563.4	1572.3	1573.4
42.5°	1408.4	1407.3	1407.3	1407.3	1405.1	1400.7	1405.1	1412.8	1411.7	1418.4	1423.9
45°	1256.7	1254.5	1258.9	1255.6	1262.3	1264.5	1261.2	1263.4	1270.0	1274.4	1283.3
47.5°	1118.3	1118.3	1119.4	1121.6	1115.0	1120.5	1122.7	1127.2	1130.5	1132.7	1137.1
50°	989.9	989.9	987.7	987.7	987.7	991.0	986.6	992.1	993.2	1002.1	1007.6
52.5°	871.4	865.9	869.2	867.0	862.5	860.3	862.5	863.7	870.3	872.5	879.2
55°	758.5	758.5	749.6	747.4	750.7	749.6	748.5	748.5	751.8	755.1	760.7
57.5°	658.8	652.2	645.5	644.4	641.1	642.2	642.2	641.1	638.9	640.0	641.1
60°	564.7	560.3	550.3	550.3	549.2	548.1	542.6	541.4	535.9	537.0	532.6
62.5°	478.3	476.1	462.8	458.4	458.4	455.1	449.5	448.4	440.7	440.7	436.3
65°	400.8	394.2	386.4	378.7	378.7	374.2	370.9	361.0	355.4	352.1	345.5
67.5°	330.0	320.0	312.2	305.6	301.2	300.1	292.3	285.7	276.8	271.3	261.3
70°	261.3	253.6	245.8	239.2	234.7	230.3	222.6	212.6	205.9	196.0	189.3
72.5°	197.1	190.4	183.8	174.9	169.4	166.1	158.3	149.5	138.4	131.8	122.9
75°	141.7	134.0	125.1	117.4	114.0	110.7	101.9	95.2	87.5	79.7	70.9
77.5°	91.9	83.0	76.4	67.5	66.4	64.2	55.4	48.7	43.2	38.8	33.2
80°	48.7	44.3	38.8	33.2	31.0	27.7	23.3	19.9	16.6	13.3	11.1
82.5°	21.0	17.7	14.4	12.2	11.1	10.0	7.8	6.6	5.5	5.5	4.4
85°	5.5	4.4	4.4	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6
2.5°	2948.6	2949.7	2950.8	2950.8	2951.9	2953.0	2953.0	2954.1	2955.2	2956.3	2956.3
5°	2943.1	2943.1	2943.1	2944.2	2944.2	2944.2	2944.2	2946.4	2946.4	2947.5	2948.6
7.5°	2932.0	2932.0	2932.0	2932.0	2930.9	2932.0	2930.9	2930.9	2933.1	2934.2	2935.3
10°	2914.3	2913.2	2913.2	2912.1	2912.1	2912.1	2913.2	2914.3	2915.4	2916.5	2919.8
12.5°	2886.6	2885.5	2885.5	2884.4	2884.4	2885.5	2886.6	2888.8	2893.2	2895.4	2899.9
15°	2842.3	2841.2	2842.3	2843.4	2845.6	2848.9	2852.3	2855.6	2862.2	2867.8	2873.3
17.5°	2778.1	2779.2	2780.3	2782.5	2785.8	2790.3	2799.1	2808.0	2815.7	2824.6	2833.4
20°	2689.5	2693.9	2695.0	2702.8	2705.0	2715.0	2724.9	2738.2	2750.4	2761.5	2773.7
22.5°	2583.2	2586.5	2591.0	2599.8	2605.3	2618.6	2630.8	2646.3	2659.6	2674.0	2691.7
25°	2462.5	2463.6	2476.9	2476.9	2490.2	2501.3	2515.7	2532.3	2552.2	2571.0	2583.2
27.5°	2325.2	2330.8	2340.7	2345.1	2355.1	2372.8	2385.0	2404.9	2424.9	2441.5	2454.8
30°	2181.3	2185.7	2202.3	2204.5	2212.3	2227.8	2244.4	2263.2	2278.7	2297.5	2309.7
32.5°	2029.6	2041.8	2051.7	2059.5	2061.7	2084.9	2093.8	2107.1	2124.8	2143.6	2155.8
35°	1882.3	1887.9	1902.2	1906.7	1913.3	1926.6	1944.3	1955.4	1964.3	1976.4	1990.8
37.5°	1726.2	1742.8	1746.1	1759.4	1761.6	1773.8	1782.7	1796.0	1807.0	1818.1	1820.3
40°	1581.1	1586.7	1598.9	1602.2	1604.4	1621.0	1632.1	1635.4	1640.9	1650.9	1664.2
42.5°	1433.9	1439.4	1452.7	1449.4	1459.4	1467.1	1472.6	1485.9	1491.5	1494.8	1494.8
45°	1288.8	1291.0	1299.9	1304.3	1309.9	1314.3	1324.3	1330.9	1333.1	1343.1	1346.4
47.5°	1150.4	1152.6	1159.3	1167.0	1164.8	1170.4	1181.4	1184.8	1185.9	1192.5	1195.8
50°	1014.2	1019.8	1028.6	1026.4	1033.1	1036.4	1046.3	1048.6	1048.6	1049.7	1050.8
52.5°	886.9	891.3	893.5	895.8	899.1	904.6	909.0	906.8	911.3	915.7	912.4
55°	760.7	764.0	769.5	771.8	771.8	772.9	770.6	780.6	776.2	775.1	776.2
57.5°	645.5	641.1	640.0	645.5	647.7	646.6	643.3	647.7	647.7	645.5	642.2
60°	533.7	530.4	529.3	530.4	525.9	522.6	524.8	522.6	517.1	514.9	516.0
62.5°	431.8	428.5	419.6	419.6	417.4	416.3	407.5	408.6	404.1	397.5	399.7
65°	337.7	328.9	324.4	323.3	315.6	308.9	306.7	299.0	292.3	291.2	292.3
67.5°	253.6	243.6	235.8	232.5	228.1	222.6	214.8	208.2	210.4	209.3	213.7
70°	176.1	169.4	161.7	156.1	158.3	151.7	147.3	147.3	148.4	149.5	151.7
72.5°	117.4	108.5	105.2	101.9	99.7	95.2	97.4	97.4	96.3	97.4	95.2
75°	66.4	62.0	58.7	57.6	55.4	55.4	55.4	55.4	54.3	53.1	53.1
77.5°	29.9	27.7	26.6	25.5	25.5	25.5	24.4	23.3	23.3	23.3	22.1
80°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	4.4	4.4	5.5	5.5	5.5	4.4	5.5	5.5	4.4	4.4	5.5
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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: P859478

CATALOG NUMBER: LX4C70D010 EX4C709035 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6
2.5°	2957.5	2958.6	2958.6	2958.6	2959.7	2959.7	2959.7	2959.7
5°	2949.7	2950.8	2950.8	2950.8	2951.9	2951.9	2951.9	2951.9
7.5°	2936.4	2937.5	2937.5	2938.6	2938.6	2939.7	2939.7	2940.8
10°	2920.9	2923.1	2924.2	2925.3	2926.5	2927.6	2927.6	2928.7
12.5°	2904.3	2906.5	2907.6	2909.8	2912.1	2913.2	2914.3	2915.4
15°	2879.9	2884.4	2886.6	2887.7	2892.1	2894.3	2895.4	2896.6
17.5°	2841.2	2850.1	2853.4	2855.6	2860.0	2864.4	2867.8	2868.9
20°	2785.8	2795.8	2800.2	2805.8	2812.4	2817.9	2820.2	2822.4
22.5°	2708.3	2719.4	2726.0	2732.7	2738.2	2743.8	2752.6	2749.3
25°	2597.6	2616.4	2624.2	2627.5	2639.7	2646.3	2650.7	2646.3
27.5°	2473.6	2484.7	2491.3	2499.1	2507.9	2514.6	2516.8	2523.4
30°	2324.1	2342.9	2341.8	2349.6	2360.6	2367.3	2369.5	2375.0
32.5°	2169.1	2178.0	2184.6	2183.5	2187.9	2200.1	2195.7	2205.6
35°	2004.1	2005.2	2016.3	2015.2	2024.0	2024.0	2024.0	2030.7
37.5°	1828.1	1841.3	1835.8	1849.1	1844.7	1848.0	1848.0	1850.2
40°	1667.5	1671.9	1671.9	1676.4	1679.7	1676.4	1678.6	1684.1
42.5°	1501.4	1505.9	1507.0	1504.7	1508.1	1518.0	1510.3	1516.9
45°	1346.4	1349.7	1354.2	1350.8	1356.4	1353.1	1356.4	1354.2
47.5°	1200.3	1199.1	1198.0	1206.9	1199.1	1200.3	1204.7	1196.9
50°	1050.8	1057.4	1053.0	1056.3	1058.5	1058.5	1055.2	1055.2
52.5°	917.9	916.8	913.5	916.8	914.6	915.7	917.9	915.7
55°	780.6	785.0	782.8	781.7	782.8	782.8	789.5	780.6
57.5°	645.5	643.3	646.6	654.4	646.6	652.2	655.5	656.6
60°	517.1	517.1	523.7	520.4	527.0	532.6	537.0	534.8
62.5°	394.2	399.7	401.9	403.0	409.7	414.1	414.1	413.0
65°	292.3	300.1	300.1	304.5	306.7	306.7	308.9	313.4
67.5°	215.9	215.9	217.0	219.2	218.1	218.1	220.3	221.4
70°	150.6	148.4	151.7	150.6	150.6	149.5	150.6	150.6
72.5°	95.2	95.2	96.3	95.2	93.0	94.1	94.1	96.3
75°	50.9	53.1	50.9	50.9	52.0	49.8	50.9	52.0
77.5°	21.0	21.0	21.0	21.0	21.0	19.9	19.9	19.9
80°	10.0	10.0	10.0	10.0	10.0	10.0	8.9	8.9
82.5°	4.4	5.5	4.4	5.5	4.4	4.4	4.4	4.4
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)