

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: P859521

Luminaire Tested: **LX4C70D010 EX4C709050 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C70D010 EX4C709050 4LBLWWH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

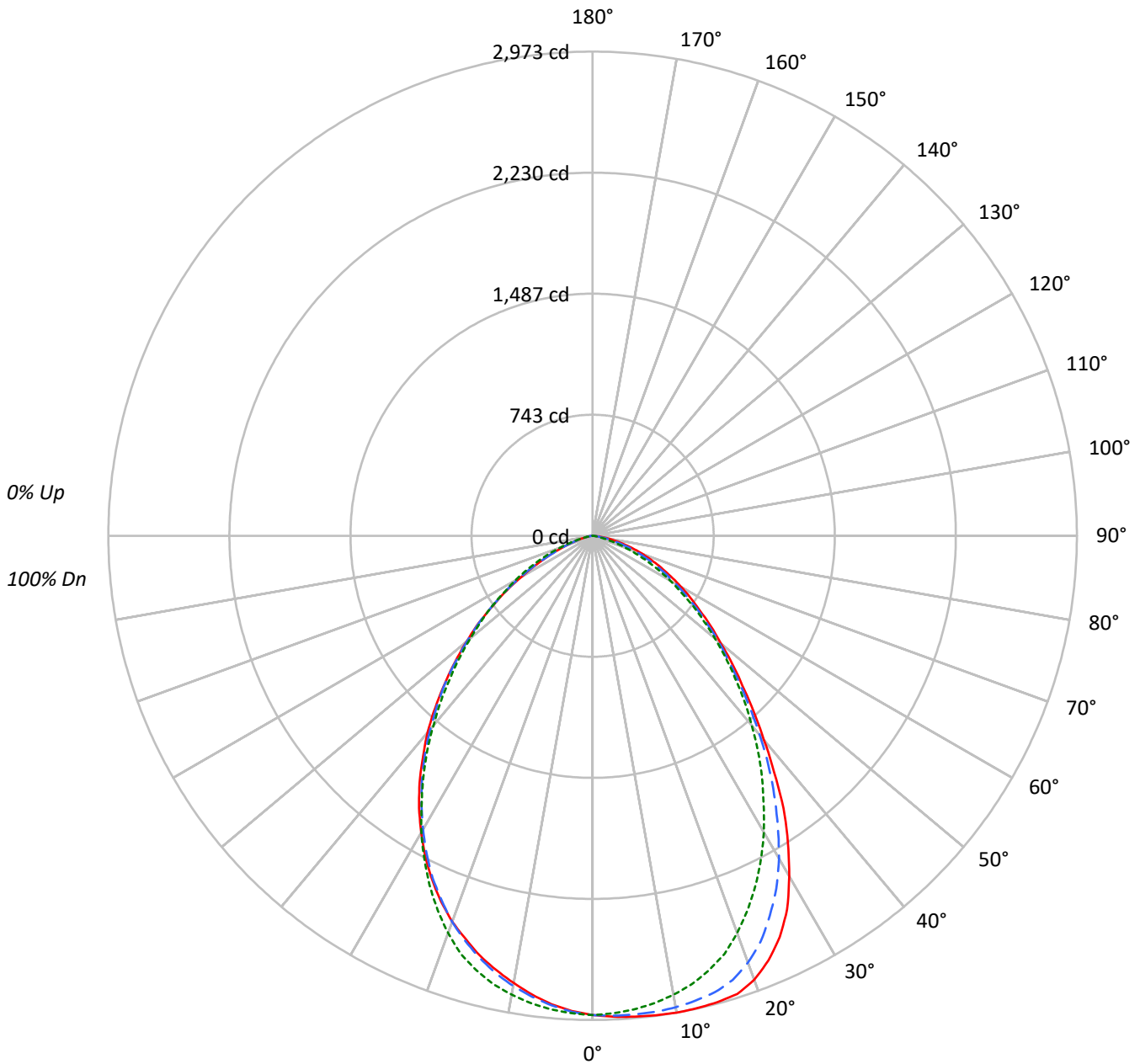
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5546.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17  
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

TEST NUMBER: P859521

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWWH

### 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	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

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

	0°	90°	180°
0°	361533	361533	361533
5°	365566	359991	356082
10°	370928	356943	347912
15°	377021	351253	339603
20°	379415	339317	329551
25°	368530	320978	316057
30°	342490	298329	298485
35°	306567	271937	277711
40°	262484	243784	252685
45°	225950	214935	222997
50°	196420	187132	192751
55°	172850	160984	159528
60°	153788	134328	123763
65°	134912	107587	89505
70°	115878	76043	60561
75°	94032	44049	35458
80°	67282	19244	17616
85°	25513	8035	8035



TEST NUMBER: P859521

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.4	5.0
10°-20°	785.1	14.2
20°-30°	1121.1	20.2
30°-40°	1172.8	21.1
40°-50°	982.6	17.7
50°-60°	687.7	12.4
60°-70°	374.5	6.8
70°-80°	130.0	2.3
80°-90°	15.0	0.3
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°	2183.5	39.4
0°-40°	3356.3	60.5
0°-60°	5026.6	90.6
0°-90°	5546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2943	2943	2943	2943	2943	
5°	2964	2951	2919	2894	2887	283
15°	2964	2902	2762	2682	2670	837
25°	2719	2574	2368	2322	2332	1241
35°	2044	1943	1813	1827	1852	1267
45°	1300	1271	1237	1278	1284	1011
55°	807	780	752	752	745	729
65°	464	423	370	311	308	462
75°	198	161	93	75	75	214
85°	18	10	6	6	6	33
90°	0	0	0	0	0	



TEST NUMBER: P859521

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8
2.5°	2956.4	2953.0	2954.2	2954.2	2954.2	2953.0	2954.2	2953.0	2953.0	2951.9	2949.6
5°	2964.3	2962.1	2962.1	2962.1	2961.0	2959.8	2959.8	2958.7	2956.4	2955.3	2950.8
7.5°	2970.0	2967.7	2967.7	2966.6	2965.5	2964.3	2963.2	2959.8	2956.4	2954.2	2948.5
10°	2973.4	2970.0	2970.0	2967.7	2965.5	2964.3	2962.1	2957.6	2953.0	2947.4	2939.4
12.5°	2971.1	2967.7	2966.6	2964.3	2959.8	2957.6	2955.3	2949.6	2941.7	2933.8	2923.6
15°	2964.3	2962.1	2959.8	2956.4	2950.8	2947.4	2945.1	2936.1	2925.9	2914.5	2902.1
17.5°	2950.8	2947.4	2942.8	2938.3	2930.4	2927.0	2921.3	2910.0	2895.3	2879.5	2860.2
20°	2902.1	2899.8	2895.3	2887.4	2874.9	2870.4	2862.5	2847.8	2828.5	2809.3	2788.9
22.5°	2821.7	2818.3	2811.5	2804.8	2793.4	2785.5	2778.7	2758.3	2736.8	2716.5	2697.2
25°	2718.7	2715.3	2706.3	2697.2	2685.9	2672.3	2665.5	2649.7	2628.2	2602.2	2573.9
27.5°	2586.3	2575.0	2571.6	2561.4	2544.4	2539.9	2529.7	2509.3	2489.0	2466.3	2442.6
30°	2414.3	2414.3	2407.5	2402.9	2387.1	2382.6	2371.3	2349.7	2338.4	2306.7	2288.6
32.5°	2232.0	2229.8	2224.1	2220.7	2211.7	2203.7	2192.4	2181.1	2156.2	2140.4	2115.5
35°	2044.1	2030.6	2032.8	2026.0	2020.4	2011.3	2010.2	1997.7	1975.1	1966.0	1943.4
37.5°	1830.2	1824.6	1832.5	1822.3	1816.6	1817.8	1808.7	1800.8	1791.7	1775.9	1771.4
40°	1636.7	1641.2	1640.1	1631.0	1635.5	1629.9	1620.8	1612.9	1608.4	1598.2	1594.8
42.5°	1463.5	1456.7	1454.4	1454.4	1455.6	1455.6	1451.0	1445.4	1445.4	1435.2	1425.0
45°	1300.5	1300.5	1298.2	1305.0	1294.9	1294.9	1291.5	1290.3	1285.8	1283.5	1271.1
47.5°	1160.2	1159.0	1157.9	1156.8	1155.6	1155.6	1148.8	1143.2	1142.0	1135.3	1128.5
50°	1027.7	1034.5	1032.3	1026.6	1024.3	1025.5	1020.9	1017.5	1016.4	1005.1	1006.2
52.5°	916.8	915.7	917.9	914.5	908.9	910.0	905.5	901.0	896.4	890.8	886.2
55°	807.0	812.7	810.4	807.0	805.9	803.6	800.2	794.6	793.4	781.0	779.9
57.5°	715.3	714.2	711.9	706.3	705.2	701.8	701.8	697.2	690.4	683.6	678.0
60°	625.9	625.9	622.5	621.4	616.9	615.7	614.6	610.1	602.2	596.5	587.4
62.5°	539.9	542.2	539.9	536.5	533.1	528.6	526.3	522.9	516.1	510.5	502.5
65°	464.1	462.9	461.8	457.3	456.1	451.6	450.5	443.7	436.9	432.4	423.3
67.5°	391.6	388.2	388.2	386.0	383.7	380.3	378.0	371.3	363.3	358.8	349.7
70°	322.6	320.3	320.3	320.3	314.7	311.3	310.1	306.7	295.4	290.9	281.8
72.5°	259.2	258.1	256.9	253.5	250.1	250.1	245.6	238.8	233.2	227.5	220.7
75°	198.1	200.3	198.1	193.5	192.4	190.2	186.8	181.1	175.4	168.6	160.7
77.5°	144.9	142.6	140.4	140.4	138.1	133.6	132.4	127.9	121.1	116.6	108.7
80°	95.1	93.9	91.7	89.4	88.3	87.2	86.0	81.5	74.7	71.3	64.5
82.5°	52.1	50.9	50.9	49.8	46.4	46.4	45.3	40.7	37.4	35.1	31.7
85°	18.1	18.1	18.1	17.0	17.0	17.0	15.8	14.7	13.6	12.5	10.2
87.5°	2.3	1.1	2.3	1.1	2.3	1.1	1.1	1.1	1.1	1.1	1.1
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: P859521

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8
2.5°	2947.4	2945.1	2944.0	2942.8	2941.7	2940.6	2939.4	2937.2	2936.1	2934.9	2932.7
5°	2947.4	2942.8	2940.6	2937.2	2934.9	2932.7	2929.3	2925.9	2922.5	2919.1	2915.7
7.5°	2942.8	2936.1	2931.5	2924.7	2922.5	2919.1	2912.3	2907.8	2902.1	2895.3	2887.4
10°	2931.5	2923.6	2914.5	2905.5	2902.1	2896.4	2887.4	2879.5	2870.4	2861.3	2853.4
12.5°	2913.4	2901.0	2889.6	2877.2	2870.4	2864.7	2852.3	2841.0	2829.7	2819.5	2805.9
15°	2886.2	2871.5	2856.8	2839.8	2831.9	2825.1	2807.0	2793.4	2775.3	2761.7	2748.2
17.5°	2842.1	2819.5	2801.4	2779.9	2768.5	2760.6	2744.8	2723.3	2706.3	2691.6	2675.7
20°	2766.3	2744.8	2719.9	2696.1	2683.6	2673.5	2650.8	2628.2	2611.2	2595.4	2578.4
22.5°	2666.7	2639.5	2621.4	2592.0	2581.8	2569.3	2542.2	2521.8	2502.5	2486.7	2470.9
25°	2545.6	2521.8	2496.9	2469.7	2457.3	2442.6	2419.9	2398.4	2386.0	2367.9	2348.6
27.5°	2406.3	2387.1	2356.5	2332.8	2320.3	2309.0	2287.5	2268.3	2250.1	2237.7	2219.6
30°	2259.2	2236.6	2209.4	2184.5	2177.7	2164.1	2144.9	2130.2	2110.9	2103.0	2095.1
32.5°	2097.3	2071.3	2050.9	2035.1	2021.5	2010.2	2000.0	1976.2	1972.8	1952.5	1950.2
35°	1920.8	1909.5	1890.2	1876.6	1865.3	1857.4	1840.4	1829.1	1816.6	1813.2	1805.3
37.5°	1754.4	1740.8	1722.7	1710.2	1702.3	1701.2	1688.7	1681.9	1672.9	1668.4	1659.3
40°	1580.1	1574.4	1558.6	1556.3	1543.9	1542.7	1535.9	1528.0	1520.1	1520.1	1521.2
42.5°	1419.4	1412.6	1405.8	1397.9	1391.1	1391.1	1387.7	1385.4	1383.1	1379.7	1385.4
45°	1268.8	1259.8	1255.2	1247.3	1250.7	1243.9	1241.7	1241.7	1238.3	1237.1	1245.0
47.5°	1128.5	1118.3	1113.8	1111.5	1111.5	1112.6	1102.4	1105.8	1104.7	1107.0	1110.4
50°	1000.6	991.5	984.7	984.7	985.9	981.3	976.8	980.2	976.8	979.1	987.0
52.5°	881.7	872.7	869.3	869.3	862.5	861.3	863.6	859.1	860.2	861.3	865.9
55°	771.9	766.3	760.6	755.0	756.1	753.8	749.3	748.2	750.4	751.6	757.2
57.5°	673.5	665.5	657.6	655.3	653.1	653.1	647.4	646.3	648.6	642.9	642.9
60°	579.5	575.0	564.8	561.4	561.4	555.7	551.2	553.5	547.8	546.7	547.8
62.5°	492.4	489.0	482.2	475.4	473.1	470.9	465.2	462.9	460.7	456.1	449.3
65°	416.5	408.6	400.7	396.2	392.8	387.1	383.7	379.2	372.4	370.1	363.3
67.5°	340.7	332.8	324.8	321.4	318.1	314.7	309.0	303.3	295.4	286.4	278.4
70°	273.9	263.7	259.2	250.1	247.9	243.4	235.4	229.8	221.8	211.7	203.7
72.5°	209.4	202.6	195.8	187.9	182.2	178.8	172.0	163.0	153.9	148.3	140.4
75°	150.5	147.1	138.1	129.0	126.8	122.2	114.3	108.7	101.9	92.8	86.0
77.5°	101.9	95.1	89.4	81.5	79.2	74.7	70.2	64.5	60.0	54.3	49.8
80°	60.0	54.3	50.9	45.3	43.0	40.7	37.4	32.8	29.4	27.2	26.0
82.5°	29.4	24.9	23.8	20.4	19.2	18.1	15.8	14.7	12.5	12.5	12.5
85°	10.2	7.9	7.9	6.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	1.1
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: P859521

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8
2.5°	2931.5	2930.4	2929.3	2928.1	2928.1	2927.0	2927.0	2925.9	2925.9	2924.7	2924.7
5°	2911.2	2907.8	2905.5	2903.2	2903.2	2899.8	2897.6	2895.3	2894.2	2894.2	2891.9
7.5°	2882.9	2878.3	2873.8	2870.4	2869.3	2863.6	2859.1	2859.1	2854.6	2852.3	2850.0
10°	2845.5	2837.6	2830.8	2827.4	2822.9	2819.5	2813.8	2810.4	2807.0	2801.4	2800.2
12.5°	2794.6	2788.9	2778.7	2774.2	2771.9	2765.1	2756.1	2751.6	2750.4	2745.9	2742.5
15°	2736.8	2724.4	2715.3	2709.7	2709.7	2698.4	2693.8	2687.0	2682.5	2679.1	2678.0
17.5°	2662.1	2649.7	2640.6	2632.7	2630.4	2621.4	2614.6	2612.3	2606.7	2608.9	2603.3
20°	2565.9	2555.7	2549.0	2538.8	2538.8	2533.1	2530.8	2525.2	2522.9	2520.7	2522.9
22.5°	2462.9	2450.5	2439.2	2438.0	2438.0	2430.1	2429.0	2427.8	2423.3	2426.7	2425.6
25°	2341.8	2332.8	2326.0	2324.8	2324.8	2320.3	2315.8	2318.1	2321.5	2320.3	2323.7
27.5°	2216.2	2207.1	2204.9	2203.7	2201.5	2200.3	2202.6	2202.6	2206.0	2210.5	2215.1
30°	2080.4	2078.1	2074.7	2073.6	2071.3	2077.0	2079.2	2082.6	2081.5	2088.3	2092.8
32.5°	1944.5	1940.0	1938.9	1941.1	1944.5	1943.4	1950.2	1952.5	1954.7	1962.6	1966.0
35°	1807.6	1806.5	1804.2	1804.2	1805.3	1814.4	1814.4	1822.3	1826.8	1829.1	1838.1
37.5°	1660.4	1665.0	1667.2	1670.6	1671.8	1675.2	1677.4	1685.3	1689.9	1694.4	1698.9
40°	1525.8	1523.5	1533.7	1526.9	1529.1	1539.3	1543.9	1542.7	1549.5	1556.3	1560.8
42.5°	1382.0	1385.4	1387.7	1389.9	1395.6	1396.7	1402.4	1410.3	1412.6	1420.5	1422.8
45°	1242.8	1243.9	1248.4	1253.0	1256.4	1265.4	1267.7	1271.1	1277.9	1277.9	1281.3
47.5°	1111.5	1116.0	1116.0	1122.8	1128.5	1127.3	1135.3	1137.5	1136.4	1142.0	1144.3
50°	985.9	992.6	991.5	996.0	998.3	999.4	1006.2	1008.5	1004.0	1009.6	1010.8
52.5°	865.9	869.3	873.8	874.9	872.7	878.3	876.1	880.6	879.5	884.0	879.5
55°	756.1	755.0	755.0	757.2	755.0	757.2	759.5	755.0	751.6	756.1	755.0
57.5°	646.3	646.3	644.0	647.4	644.0	640.6	639.5	636.1	632.7	632.7	631.6
60°	543.3	541.0	536.5	535.4	535.4	529.7	527.4	522.9	522.9	518.4	513.9
62.5°	447.1	441.4	438.0	438.0	435.8	430.1	419.9	413.1	410.9	404.1	402.9
65°	356.5	350.9	347.5	340.7	335.0	332.8	322.6	314.7	311.3	304.5	305.6
67.5°	273.9	264.9	254.7	250.1	246.7	238.8	235.4	229.8	226.4	226.4	226.4
70°	196.9	189.0	178.8	175.4	173.2	166.4	163.0	161.9	165.3	164.1	165.3
72.5°	132.4	124.5	120.0	117.7	115.4	112.1	114.3	115.4	113.2	114.3	115.4
75°	80.4	78.1	74.7	73.6	73.6	74.7	73.6	73.6	74.7	74.7	75.8
77.5°	46.4	44.1	44.1	43.0	45.3	44.1	44.1	44.1	45.3	45.3	45.3
80°	24.9	24.9	24.9	24.9	26.0	24.9	26.0	26.0	26.0	26.0	26.0
82.5°	12.5	12.5	12.5	13.6	13.6	13.6	13.6	13.6	13.6	13.6	12.5
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	1.1	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1
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: P859521

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8	2942.8
2.5°	2922.5	2922.5	2922.5	2920.2	2921.3	2921.3	2920.2	2920.2
5°	2890.8	2889.6	2887.4	2887.4	2885.1	2887.4	2886.2	2887.4
7.5°	2847.8	2847.8	2844.4	2844.4	2843.2	2842.1	2841.0	2842.1
10°	2796.8	2796.8	2794.6	2793.4	2794.6	2790.0	2790.0	2788.9
12.5°	2740.2	2738.0	2735.7	2736.8	2735.7	2732.3	2731.2	2732.3
15°	2674.6	2671.2	2672.3	2668.9	2668.9	2667.8	2670.1	2670.1
17.5°	2602.2	2599.9	2597.6	2598.8	2596.5	2597.6	2596.5	2595.4
20°	2521.8	2520.7	2520.7	2516.1	2517.3	2516.1	2517.3	2520.7
22.5°	2429.0	2427.8	2429.0	2425.6	2427.8	2427.8	2431.2	2431.2
25°	2327.1	2326.0	2328.2	2329.4	2330.5	2333.9	2330.5	2331.6
27.5°	2213.9	2217.3	2220.7	2221.8	2226.4	2223.0	2220.7	2224.1
30°	2099.6	2099.6	2098.5	2103.0	2106.4	2109.8	2104.1	2104.1
32.5°	1968.3	1974.0	1974.0	1975.1	1978.5	1978.5	1978.5	1983.0
35°	1842.7	1846.1	1847.2	1842.7	1844.9	1843.8	1851.7	1851.7
37.5°	1702.3	1702.3	1703.5	1711.4	1711.4	1708.0	1710.2	1710.2
40°	1568.8	1569.9	1565.4	1567.6	1573.3	1571.0	1573.3	1575.6
42.5°	1422.8	1430.7	1426.1	1428.4	1427.3	1428.4	1429.5	1429.5
45°	1283.5	1285.8	1285.8	1286.9	1289.2	1291.5	1284.7	1283.5
47.5°	1147.7	1148.8	1152.2	1146.6	1153.4	1146.6	1153.4	1145.4
50°	1010.8	1015.3	1011.9	1014.1	1010.8	1010.8	1009.6	1008.5
52.5°	880.6	879.5	879.5	878.3	878.3	880.6	878.3	881.7
55°	750.4	751.6	749.3	748.2	747.0	750.4	747.0	744.8
57.5°	627.1	629.3	624.8	627.1	619.1	622.5	623.7	624.8
60°	512.7	509.3	509.3	504.8	504.8	508.2	503.7	503.7
62.5°	397.3	399.5	396.2	400.7	400.7	405.2	402.9	405.2
65°	304.5	305.6	306.7	306.7	306.7	313.5	311.3	307.9
67.5°	229.8	230.9	232.0	230.9	234.3	232.0	232.0	233.2
70°	166.4	167.5	168.6	168.6	167.5	168.6	168.6	168.6
72.5°	115.4	116.6	115.4	116.6	117.7	116.6	116.6	117.7
75°	75.8	75.8	74.7	74.7	74.7	74.7	75.8	74.7
77.5°	44.1	45.3	44.1	45.3	45.3	45.3	45.3	45.3
80°	26.0	26.0	26.0	24.9	26.0	26.0	26.0	24.9
82.5°	13.6	13.6	12.5	12.5	13.6	13.6	13.6	13.6
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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)