

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: P859583

Luminaire Tested: **LX4C75D010 EX4C759040 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859583  
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: LX4C75D010 EX4C759040 4LBLWWH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

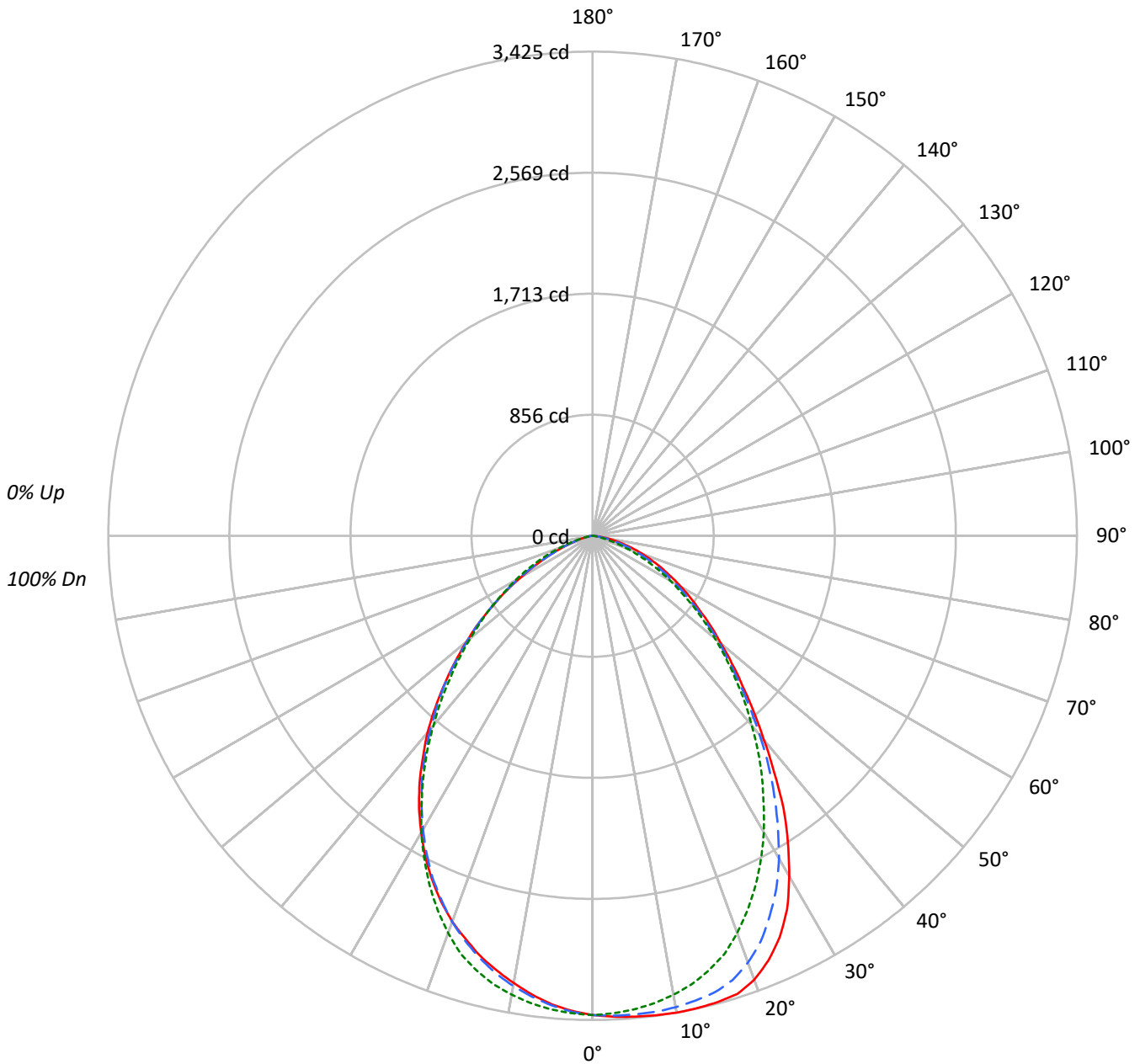
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6389.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 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): 81.5  
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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### Luminous Intensity Polar Plot





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**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	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°	416498	416498	416498
5°	421135	414710	410208
10°	427314	411209	400793
15°	434332	404646	391215
20°	437083	390893	379637
25°	424555	369764	364098
30°	394538	343682	343866
35°	353179	313286	319930
40°	302385	280831	291078
45°	260299	247616	256894
50°	226274	215571	222050
55°	199131	185444	183774
60°	177179	154746	142559
65°	155406	123953	103110
70°	133479	87573	69792
75°	108320	50742	40869
80°	77470	22144	20305
85°	29460	9162	9162



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.5	5.0
10°-20°	904.4	14.2
20°-30°	1291.5	20.2
30°-40°	1351.0	21.1
40°-50°	1132.0	17.7
50°-60°	792.2	12.4
60°-70°	431.4	6.8
70°-80°	149.7	2.3
80°-90°	17.2	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°	2515.4	39.4
0°-40°	3866.4	60.5
0°-60°	5790.7	90.6
0°-90°	6389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3390	3390	3390	3390	3390	
5°	3415	3399	3363	3334	3326	326
15°	3415	3343	3182	3090	3076	964
25°	3132	2965	2728	2674	2686	1430
35°	2355	2239	2089	2104	2133	1460
45°	1498	1464	1425	1472	1479	1165
55°	930	898	866	866	858	840
65°	535	488	426	359	355	532
75°	228	185	107	86	86	246
85°	21	12	6	6	6	38
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°	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2
2.5°	3405.8	3401.9	3403.2	3403.2	3403.2	3401.9	3403.2	3401.9	3401.9	3400.6	3398.0
5°	3414.9	3412.3	3412.3	3412.3	3411.0	3409.7	3409.7	3408.4	3405.8	3404.5	3399.3
7.5°	3421.5	3418.8	3418.8	3417.5	3416.2	3414.9	3413.6	3409.7	3405.8	3403.2	3396.7
10°	3425.4	3421.5	3421.5	3418.8	3416.2	3414.9	3412.3	3407.1	3401.9	3395.4	3386.2
12.5°	3422.8	3418.8	3417.5	3414.9	3409.7	3407.1	3404.5	3398.0	3388.9	3379.7	3368.0
15°	3414.9	3412.3	3409.7	3405.8	3399.3	3395.4	3392.8	3382.3	3370.6	3357.6	3343.2
17.5°	3399.3	3395.4	3390.2	3384.9	3375.8	3371.9	3365.4	3352.3	3335.4	3317.1	3295.0
20°	3343.2	3340.6	3335.4	3326.3	3311.9	3306.7	3297.6	3280.6	3258.5	3236.3	3212.8
22.5°	3250.6	3246.7	3238.9	3231.1	3218.0	3208.9	3201.1	3177.6	3152.8	3129.4	3107.2
25°	3132.0	3128.1	3117.6	3107.2	3094.2	3078.5	3070.7	3052.4	3027.7	2997.7	2965.1
27.5°	2979.4	2966.4	2962.5	2950.7	2931.2	2926.0	2914.2	2890.8	2867.3	2841.2	2813.8
30°	2781.2	2781.2	2773.4	2768.2	2749.9	2744.7	2731.7	2706.9	2693.9	2657.4	2636.5
32.5°	2571.3	2568.7	2562.2	2558.3	2547.8	2538.7	2525.7	2512.6	2483.9	2465.7	2437.0
35°	2354.9	2339.2	2341.8	2334.0	2327.5	2317.0	2315.7	2301.4	2275.3	2264.9	2238.8
37.5°	2108.4	2101.9	2111.0	2099.3	2092.8	2094.1	2083.6	2074.5	2064.1	2045.8	2040.6
40°	1885.5	1890.7	1889.4	1878.9	1884.1	1877.6	1867.2	1858.1	1852.9	1841.1	1837.2
42.5°	1686.0	1678.1	1675.5	1675.5	1676.8	1676.8	1671.6	1665.1	1665.1	1653.4	1641.6
45°	1498.2	1498.2	1495.6	1503.4	1491.7	1491.7	1487.8	1486.5	1481.2	1478.6	1464.3
47.5°	1336.5	1335.2	1333.9	1332.6	1331.3	1331.3	1323.5	1316.9	1315.6	1307.8	1300.0
50°	1183.9	1191.8	1189.2	1182.6	1180.0	1181.3	1176.1	1172.2	1170.9	1157.9	1159.2
52.5°	1056.2	1054.9	1057.5	1053.6	1047.0	1048.3	1043.1	1037.9	1032.7	1026.2	1021.0
55°	929.7	936.2	933.6	929.7	928.4	925.8	921.9	915.3	914.0	899.7	898.4
57.5°	824.1	822.8	820.2	813.6	812.3	808.4	808.4	803.2	795.4	787.6	781.0
60°	721.1	721.1	717.1	715.8	710.6	709.3	708.0	702.8	693.7	687.2	676.7
62.5°	622.0	624.6	622.0	618.1	614.1	608.9	606.3	602.4	594.6	588.1	578.9
65°	534.6	533.3	532.0	526.8	525.5	520.3	519.0	511.1	503.3	498.1	487.7
67.5°	451.2	447.2	447.2	444.6	442.0	438.1	435.5	427.7	418.6	413.3	402.9
70°	371.6	369.0	369.0	369.0	362.5	358.6	357.3	353.4	340.3	335.1	324.7
72.5°	298.6	297.3	296.0	292.1	288.2	288.2	282.9	275.1	268.6	262.1	254.3
75°	228.2	230.8	228.2	223.0	221.7	219.1	215.1	208.6	202.1	194.3	185.2
77.5°	166.9	164.3	161.7	161.7	159.1	153.9	152.6	147.3	139.5	134.3	125.2
80°	109.5	108.2	105.6	103.0	101.7	100.4	99.1	93.9	86.1	82.1	74.3
82.5°	60.0	58.7	58.7	57.4	53.5	53.5	52.2	46.9	43.0	40.4	36.5
85°	20.9	20.9	20.9	19.6	19.6	19.6	18.3	17.0	15.6	14.3	11.7
87.5°	2.6	1.3	2.6	1.3	2.6	1.3	1.3	1.3	1.3	1.3	1.3
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°	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2
2.5°	3395.4	3392.8	3391.5	3390.2	3388.9	3387.6	3386.2	3383.6	3382.3	3381.0	3378.4
5°	3395.4	3390.2	3387.6	3383.6	3381.0	3378.4	3374.5	3370.6	3366.7	3362.8	3358.9
7.5°	3390.2	3382.3	3377.1	3369.3	3366.7	3362.8	3355.0	3349.7	3343.2	3335.4	3326.3
10°	3377.1	3368.0	3357.6	3347.1	3343.2	3336.7	3326.3	3317.1	3306.7	3296.3	3287.2
12.5°	3356.3	3341.9	3328.9	3314.5	3306.7	3300.2	3285.8	3272.8	3259.8	3248.0	3232.4
15°	3325.0	3308.0	3291.1	3271.5	3262.4	3254.6	3233.7	3218.0	3197.2	3181.5	3165.9
17.5°	3274.1	3248.0	3227.2	3202.4	3189.4	3180.2	3162.0	3137.2	3117.6	3100.7	3082.4
20°	3186.7	3162.0	3133.3	3105.9	3091.6	3079.8	3053.8	3027.7	3008.1	2989.9	2970.3
22.5°	3072.0	3040.7	3019.8	2985.9	2974.2	2959.9	2928.6	2905.1	2882.9	2864.7	2846.4
25°	2932.5	2905.1	2876.4	2845.1	2830.8	2813.8	2787.8	2763.0	2748.6	2727.8	2705.6
27.5°	2772.1	2749.9	2714.7	2687.4	2673.0	2660.0	2635.2	2613.0	2592.2	2577.8	2557.0
30°	2602.6	2576.5	2545.2	2516.5	2508.7	2493.1	2470.9	2454.0	2431.8	2422.7	2413.5
32.5°	2416.1	2386.2	2362.7	2344.4	2328.8	2315.7	2304.0	2276.6	2272.7	2249.2	2246.6
35°	2212.7	2199.7	2177.5	2161.9	2148.8	2139.7	2120.2	2107.1	2092.8	2088.9	2079.7
37.5°	2021.1	2005.4	1984.5	1970.2	1961.1	1959.8	1945.4	1937.6	1927.2	1922.0	1911.5
40°	1820.3	1813.7	1795.5	1792.9	1778.5	1777.2	1769.4	1760.3	1751.1	1751.1	1752.5
42.5°	1635.1	1627.3	1619.5	1610.3	1602.5	1602.5	1598.6	1596.0	1593.4	1589.5	1596.0
45°	1461.7	1451.2	1446.0	1436.9	1440.8	1433.0	1430.4	1430.4	1426.5	1425.2	1434.3
47.5°	1300.0	1288.3	1283.0	1280.4	1280.4	1281.7	1270.0	1273.9	1272.6	1275.2	1279.1
50°	1152.7	1142.2	1134.4	1134.4	1135.7	1130.5	1125.3	1129.2	1125.3	1127.9	1137.0
52.5°	1015.7	1005.3	1001.4	1001.4	993.6	992.3	994.9	989.7	991.0	992.3	997.5
55°	889.3	882.7	876.2	869.7	871.0	868.4	863.2	861.9	864.5	865.8	872.3
57.5°	775.8	766.7	757.6	755.0	752.4	752.4	745.8	744.5	747.1	740.6	740.6
60°	667.6	662.4	650.6	646.7	646.7	640.2	635.0	637.6	631.1	629.8	631.1
62.5°	567.2	563.3	555.5	547.6	545.0	542.4	535.9	533.3	530.7	525.5	517.7
65°	479.8	470.7	461.6	456.4	452.5	445.9	442.0	436.8	429.0	426.4	418.6
67.5°	392.5	383.3	374.2	370.3	366.4	362.5	356.0	349.4	340.3	329.9	320.8
70°	315.5	303.8	298.6	288.2	285.6	280.3	271.2	264.7	255.6	243.8	234.7
72.5°	241.2	233.4	225.6	216.4	209.9	206.0	198.2	187.8	177.3	170.8	161.7
75°	173.4	169.5	159.1	148.6	146.0	140.8	131.7	125.2	117.4	106.9	99.1
77.5°	117.4	109.5	103.0	93.9	91.3	86.1	80.8	74.3	69.1	62.6	57.4
80°	69.1	62.6	58.7	52.2	49.5	46.9	43.0	37.8	33.9	31.3	30.0
82.5°	33.9	28.7	27.4	23.5	22.2	20.9	18.3	17.0	14.3	14.3	14.3
85°	11.7	9.1	9.1	7.8	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	1.3
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°	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2
2.5°	3377.1	3375.8	3374.5	3373.2	3373.2	3371.9	3371.9	3370.6	3370.6	3369.3	3369.3
5°	3353.6	3349.7	3347.1	3344.5	3344.5	3340.6	3338.0	3335.4	3334.1	3334.1	3331.5
7.5°	3321.1	3315.8	3310.6	3306.7	3305.4	3298.9	3293.7	3293.7	3288.5	3285.8	3283.2
10°	3278.0	3268.9	3261.1	3257.2	3251.9	3248.0	3241.5	3237.6	3233.7	3227.2	3225.9
12.5°	3219.3	3212.8	3201.1	3195.9	3193.3	3185.4	3175.0	3169.8	3168.5	3163.3	3159.4
15°	3152.8	3138.5	3128.1	3121.6	3121.6	3108.5	3103.3	3095.5	3090.3	3086.3	3085.0
17.5°	3066.8	3052.4	3042.0	3032.9	3030.3	3019.8	3012.0	3009.4	3002.9	3005.5	2999.0
20°	2956.0	2944.2	2936.4	2924.7	2924.7	2918.1	2915.5	2909.0	2906.4	2903.8	2906.4
22.5°	2837.3	2823.0	2809.9	2808.6	2808.6	2799.5	2798.2	2796.9	2791.7	2795.6	2794.3
25°	2697.8	2687.4	2679.5	2678.2	2678.2	2673.0	2667.8	2670.4	2674.3	2673.0	2676.9
27.5°	2553.1	2542.6	2540.0	2538.7	2536.1	2534.8	2537.4	2537.4	2541.3	2546.5	2551.7
30°	2396.6	2394.0	2390.1	2388.8	2386.2	2392.7	2395.3	2399.2	2397.9	2405.7	2410.9
32.5°	2240.1	2234.9	2233.6	2236.2	2240.1	2238.8	2246.6	2249.2	2251.8	2261.0	2264.9
35°	2082.3	2081.0	2078.4	2078.4	2079.7	2090.2	2090.2	2099.3	2104.5	2107.1	2117.5
37.5°	1912.8	1918.0	1920.7	1924.6	1925.9	1929.8	1932.4	1941.5	1946.7	1951.9	1957.2
40°	1757.7	1755.1	1766.8	1759.0	1761.6	1773.3	1778.5	1777.2	1785.0	1792.9	1798.1
42.5°	1592.1	1596.0	1598.6	1601.2	1607.7	1609.0	1615.5	1624.7	1627.3	1636.4	1639.0
45°	1431.7	1433.0	1438.2	1443.4	1447.3	1457.8	1460.4	1464.3	1472.1	1472.1	1476.0
47.5°	1280.4	1285.7	1285.7	1293.5	1300.0	1298.7	1307.8	1310.4	1309.1	1315.6	1318.3
50°	1135.7	1143.5	1142.2	1147.4	1150.0	1151.4	1159.2	1161.8	1156.6	1163.1	1164.4
52.5°	997.5	1001.4	1006.6	1007.9	1005.3	1011.8	1009.2	1014.4	1013.1	1018.4	1013.1
55°	871.0	869.7	869.7	872.3	869.7	872.3	874.9	869.7	865.8	871.0	869.7
57.5°	744.5	744.5	741.9	745.8	741.9	738.0	736.7	732.8	728.9	728.9	727.6
60°	625.9	623.3	618.1	616.7	616.7	610.2	607.6	602.4	602.4	597.2	592.0
62.5°	515.0	508.5	504.6	504.6	502.0	495.5	483.7	475.9	473.3	465.5	464.2
65°	410.7	404.2	400.3	392.5	386.0	383.3	371.6	362.5	358.6	350.8	352.1
67.5°	315.5	305.1	293.4	288.2	284.3	275.1	271.2	264.7	260.8	260.8	260.8
70°	226.9	217.8	206.0	202.1	199.5	191.7	187.8	186.5	190.4	189.1	190.4
72.5°	152.6	143.4	138.2	135.6	133.0	129.1	131.7	133.0	130.4	131.7	133.0
75°	92.6	90.0	86.1	84.8	84.8	86.1	84.8	84.8	86.1	86.1	87.4
77.5°	53.5	50.9	50.9	49.5	52.2	50.9	50.9	50.9	52.2	52.2	52.2
80°	28.7	28.7	28.7	28.7	30.0	28.7	30.0	30.0	30.0	30.0	30.0
82.5°	14.3	14.3	14.3	15.6	15.6	15.6	15.6	15.6	15.6	15.6	14.3
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	1.3	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
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: P859583

CATALOG NUMBER: LX4C75D010 EX4C759040 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2
2.5°	3366.7	3366.7	3366.7	3364.1	3365.4	3365.4	3364.1	3364.1
5°	3330.2	3328.9	3326.3	3326.3	3323.7	3326.3	3325.0	3326.3
7.5°	3280.6	3280.6	3276.7	3276.7	3275.4	3274.1	3272.8	3274.1
10°	3222.0	3222.0	3219.3	3218.0	3219.3	3214.1	3214.1	3212.8
12.5°	3156.8	3154.2	3151.5	3152.8	3151.5	3147.6	3146.3	3147.6
15°	3081.1	3077.2	3078.5	3074.6	3074.6	3073.3	3075.9	3075.9
17.5°	2997.7	2995.1	2992.5	2993.8	2991.2	2992.5	2991.2	2989.9
20°	2905.1	2903.8	2903.8	2898.6	2899.9	2898.6	2899.9	2903.8
22.5°	2798.2	2796.9	2798.2	2794.3	2796.9	2796.9	2800.8	2800.8
25°	2680.8	2679.5	2682.1	2683.4	2684.7	2688.7	2684.7	2686.0
27.5°	2550.4	2554.4	2558.3	2559.6	2564.8	2560.9	2558.3	2562.2
30°	2418.7	2418.7	2417.4	2422.7	2426.6	2430.5	2424.0	2424.0
32.5°	2267.5	2274.0	2274.0	2275.3	2279.2	2279.2	2279.2	2284.4
35°	2122.8	2126.7	2128.0	2122.8	2125.4	2124.1	2133.2	2133.2
37.5°	1961.1	1961.1	1962.4	1971.5	1971.5	1967.6	1970.2	1970.2
40°	1807.2	1808.5	1803.3	1805.9	1812.4	1809.8	1812.4	1815.0
42.5°	1639.0	1648.1	1642.9	1645.5	1644.2	1645.5	1646.8	1646.8
45°	1478.6	1481.2	1481.2	1482.5	1485.2	1487.8	1479.9	1478.6
47.5°	1322.2	1323.5	1327.4	1320.9	1328.7	1320.9	1328.7	1319.6
50°	1164.4	1169.6	1165.7	1168.3	1164.4	1164.4	1163.1	1161.8
52.5°	1014.4	1013.1	1013.1	1011.8	1011.8	1014.4	1011.8	1015.7
55°	864.5	865.8	863.2	861.9	860.6	864.5	860.6	858.0
57.5°	722.4	725.0	719.8	722.4	713.2	717.1	718.5	719.8
60°	590.7	586.8	586.8	581.5	581.5	585.5	580.2	580.2
62.5°	457.7	460.3	456.4	461.6	461.6	466.8	464.2	466.8
65°	350.8	352.1	353.4	353.4	353.4	361.2	358.6	354.7
67.5°	264.7	266.0	267.3	266.0	269.9	267.3	267.3	268.6
70°	191.7	193.0	194.3	194.3	193.0	194.3	194.3	194.3
72.5°	133.0	134.3	133.0	134.3	135.6	134.3	134.3	135.6
75°	87.4	87.4	86.1	86.1	86.1	86.1	87.4	86.1
77.5°	50.9	52.2	50.9	52.2	52.2	52.2	52.2	52.2
80°	30.0	30.0	30.0	28.7	30.0	30.0	30.0	28.7
82.5°	15.6	15.6	14.3	14.3	15.6	15.6	15.6	15.6
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)