

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: P859258

Luminaire Tested: **LX4C60D010 EX4C609050 4LBLWW\***

Issue Date: 2/9/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P859258  
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: LX4C60D010 EX4C609050 4LBLWW\*  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

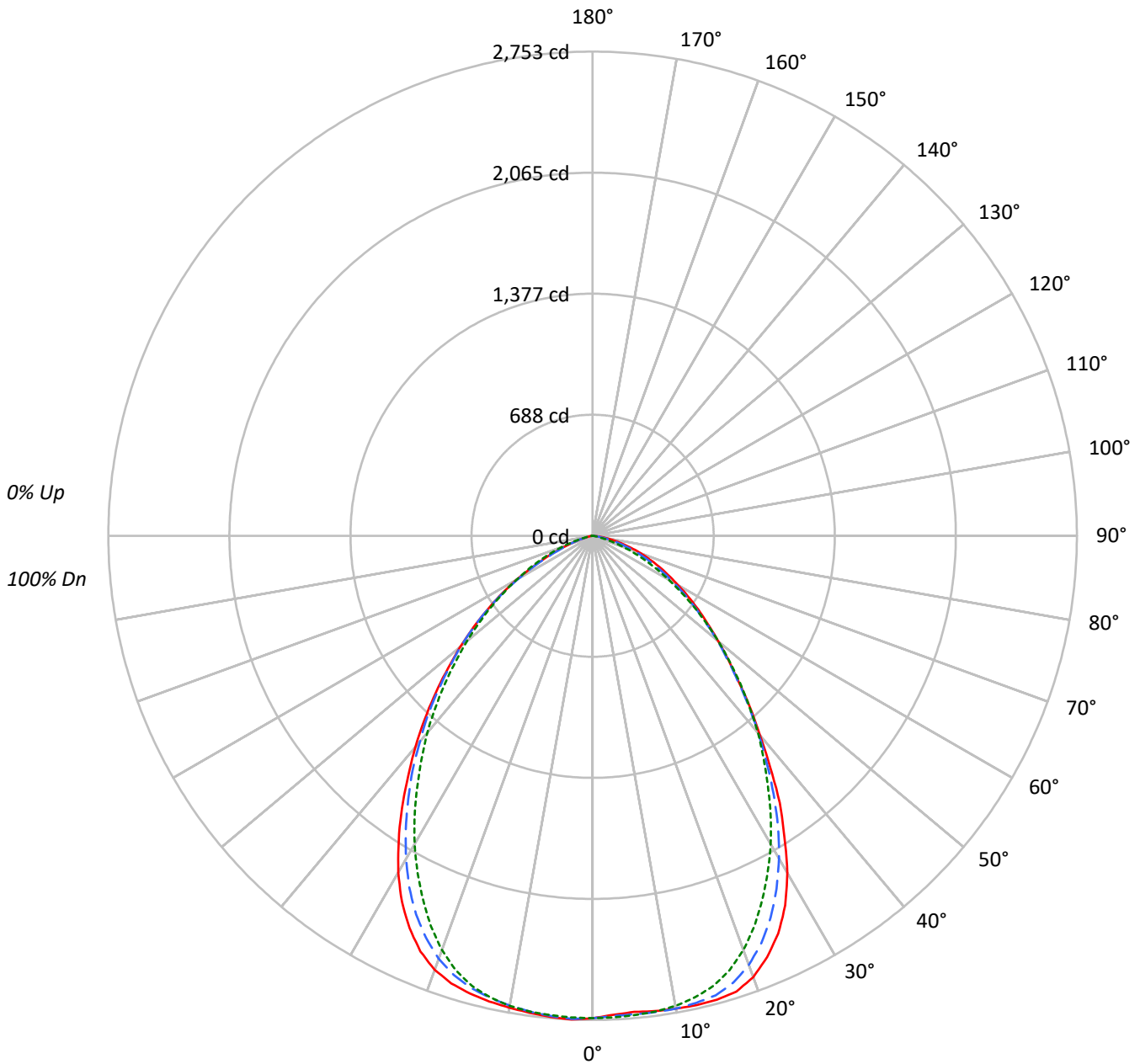
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5259.0 lumens  
Efficiency: N/A  
Efficacy: 73.0 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  
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: LX4C60D010 EX4C609050 4LBLWW\*

### 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	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°	336999	336999	336999
5°	335105	337399	338669
10°	340651	338593	339878
15°	347310	337097	342732
20°	349070	327655	343279
25°	338329	309415	333720
30°	314019	287137	313437
35°	278071	260464	283335
40°	237065	234579	251258
45°	203659	205987	218879
50°	177785	178168	187628
55°	157086	150467	155544
60°	137694	122755	122239
65°	121860	95232	84738
70°	103988	65482	50324
75°	84111	35220	22974
80°	57589	8773	5801
85°	17479	2960	2960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.7	5.0
10°-20°	754.7	14.4
20°-30°	1090.5	20.7
30°-40°	1127.3	21.4
40°-50°	931.5	17.7
50°-60°	642.9	12.2
60°-70°	336.5	6.4
70°-80°	105.9	2.0
80°-90°	9.0	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°	2105.9	40.0
0°-40°	3233.2	61.5
0°-60°	4807.5	91.4
0°-90°	5259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2743	2743	2743	2743	2743	
5°	2717	2731	2736	2741	2746	260
15°	2731	2705	2650	2663	2695	770
25°	2496	2395	2283	2374	2462	1140
35°	1854	1792	1737	1827	1889	1151
45°	1172	1167	1186	1240	1260	914
55°	733	711	702	722	726	659
65°	419	380	328	272	292	415
75°	177	139	74	50	48	190
85°	12	6	2	2	2	26
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°	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1
2.5°	2725.6	2726.6	2726.6	2728.7	2728.7	2728.7	2729.7	2729.7	2730.7	2731.8	2732.8
5°	2717.3	2717.3	2719.4	2720.4	2722.5	2723.5	2725.6	2726.6	2728.7	2729.7	2730.7
7.5°	2725.6	2725.6	2726.6	2727.6	2727.6	2728.7	2728.7	2729.7	2730.7	2731.8	2731.8
10°	2730.7	2730.7	2730.7	2730.7	2731.8	2731.8	2731.8	2730.7	2730.7	2730.7	2729.7
12.5°	2732.8	2732.8	2731.8	2730.7	2731.8	2730.7	2730.7	2727.6	2725.6	2723.5	2720.4
15°	2730.7	2730.7	2729.7	2728.7	2727.6	2725.6	2724.5	2719.4	2715.3	2709.1	2705.0
17.5°	2717.3	2715.3	2713.2	2711.2	2707.0	2703.9	2701.9	2692.6	2685.4	2675.1	2663.8
20°	2670.0	2667.9	2664.8	2659.7	2654.5	2650.4	2644.2	2630.8	2623.6	2608.1	2596.8
22.5°	2592.7	2590.6	2591.7	2582.4	2572.1	2565.9	2561.8	2550.5	2538.1	2518.5	2506.2
25°	2495.9	2489.7	2489.7	2475.3	2470.1	2466.0	2460.8	2447.5	2428.9	2411.4	2394.9
27.5°	2370.2	2362.0	2357.8	2355.8	2343.4	2334.1	2326.9	2316.6	2301.2	2285.7	2263.1
30°	2213.6	2212.6	2207.4	2198.2	2188.9	2184.8	2176.5	2159.0	2144.6	2133.3	2118.9
32.5°	2029.2	2028.2	2028.2	2028.2	2022.0	2021.0	2008.6	1999.4	1988.0	1970.5	1961.3
35°	1854.1	1853.1	1854.1	1838.7	1834.6	1831.5	1830.4	1824.3	1808.8	1800.6	1792.3
37.5°	1656.4	1659.4	1657.4	1653.3	1658.4	1649.1	1656.4	1643.0	1636.8	1634.7	1625.5
40°	1478.2	1486.4	1478.2	1479.2	1484.3	1475.1	1475.1	1473.0	1468.9	1466.8	1464.8
42.5°	1325.7	1315.4	1321.6	1316.4	1321.6	1318.5	1313.3	1316.4	1317.5	1313.3	1312.3
45°	1172.2	1174.3	1176.3	1173.3	1173.3	1170.2	1178.4	1173.3	1173.3	1174.3	1167.1
47.5°	1047.6	1044.5	1046.6	1044.5	1045.5	1043.5	1045.5	1046.6	1044.5	1044.5	1038.3
50°	930.2	928.1	935.3	929.1	929.1	928.1	929.1	927.1	924.0	924.0	926.0
52.5°	828.2	824.1	823.0	828.2	821.0	821.0	822.0	819.9	815.8	813.8	808.6
55°	733.4	732.4	733.4	729.3	727.2	727.2	722.1	720.0	719.0	713.8	710.8
57.5°	644.8	641.7	642.8	641.7	637.6	636.6	632.5	632.5	628.3	624.2	619.1
60°	560.4	560.4	563.5	559.3	556.2	554.2	552.1	550.1	542.8	535.6	529.5
62.5°	485.2	486.2	485.2	482.1	480.0	478.0	475.9	469.7	463.5	459.4	452.2
65°	419.2	418.2	415.1	413.1	407.9	407.9	403.8	400.7	393.5	387.3	380.1
67.5°	351.3	349.2	349.2	349.2	343.0	342.0	339.9	333.7	327.6	319.3	313.1
70°	289.5	291.5	288.4	285.3	282.2	281.2	278.1	271.9	264.7	256.5	251.3
72.5°	230.7	232.8	229.7	228.7	222.5	220.4	219.4	214.3	206.0	200.9	192.6
75°	177.2	178.2	176.1	174.1	170.0	168.9	163.8	159.7	154.5	146.3	139.1
77.5°	127.7	125.7	125.7	121.5	117.4	117.4	116.4	110.2	103.0	96.8	90.6
80°	81.4	80.3	77.3	75.2	72.1	71.1	70.0	64.9	59.7	55.6	51.5
82.5°	41.2	40.2	39.1	38.1	36.1	34.0	35.0	30.9	28.8	24.7	21.6
85°	12.4	13.4	13.4	12.4	11.3	11.3	11.3	10.3	8.2	7.2	6.2
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°	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1
2.5°	2733.8	2734.8	2735.9	2736.9	2736.9	2737.9	2739.0	2740.0	2741.0	2741.0	2742.1
5°	2731.8	2733.8	2733.8	2734.8	2734.8	2734.8	2735.9	2735.9	2735.9	2735.9	2736.9
7.5°	2732.8	2732.8	2732.8	2731.8	2731.8	2730.7	2730.7	2730.7	2728.7	2728.7	2728.7
10°	2727.6	2726.6	2725.6	2723.5	2722.5	2721.5	2719.4	2717.3	2715.3	2714.2	2712.2
12.5°	2717.3	2713.2	2709.1	2705.0	2702.9	2701.9	2697.8	2694.7	2691.6	2688.5	2686.4
15°	2696.7	2690.6	2683.3	2675.1	2673.0	2671.0	2663.8	2657.6	2653.5	2650.4	2645.2
17.5°	2655.5	2643.2	2634.9	2622.6	2617.4	2615.4	2604.0	2597.8	2590.6	2588.6	2584.5
20°	2582.4	2571.1	2555.6	2544.3	2538.1	2531.9	2522.7	2514.4	2506.2	2506.2	2501.0
22.5°	2490.7	2476.3	2456.7	2442.3	2441.3	2428.9	2420.7	2411.4	2408.3	2402.1	2402.1
25°	2375.3	2363.0	2341.4	2329.0	2322.8	2319.7	2306.3	2294.0	2287.8	2282.6	2286.8
27.5°	2247.6	2229.1	2212.6	2197.1	2192.0	2185.8	2173.5	2168.3	2157.0	2155.9	2154.9
30°	2101.4	2082.8	2066.3	2059.1	2048.8	2043.7	2034.4	2028.2	2024.1	2024.1	2022.0
32.5°	1947.9	1931.4	1923.1	1907.7	1902.5	1895.3	1889.2	1883.0	1885.0	1883.0	1884.0
35°	1782.0	1777.9	1762.5	1753.2	1753.2	1752.2	1741.9	1737.7	1735.7	1736.7	1741.9
37.5°	1624.4	1612.1	1601.8	1595.6	1600.7	1594.6	1593.5	1593.5	1599.7	1595.6	1603.8
40°	1456.5	1455.5	1451.4	1453.4	1454.5	1447.3	1449.3	1450.3	1454.5	1462.7	1463.7
42.5°	1310.3	1309.2	1309.2	1309.2	1307.2	1303.0	1307.2	1314.4	1313.3	1319.5	1324.7
45°	1169.1	1167.1	1171.2	1168.1	1174.3	1176.3	1173.3	1175.3	1181.5	1185.6	1193.9
47.5°	1040.4	1040.4	1041.4	1043.5	1037.3	1042.4	1044.5	1048.6	1051.7	1053.8	1057.9
50°	920.9	920.9	918.8	918.8	918.8	921.9	917.8	922.9	924.0	932.2	937.4
52.5°	810.7	805.5	808.6	806.5	802.4	800.4	802.4	803.5	809.6	811.7	817.9
55°	705.6	705.6	697.4	695.3	698.4	697.4	696.3	696.3	699.4	702.5	707.7
57.5°	612.9	606.7	600.5	599.5	596.4	597.4	597.4	596.4	594.4	595.4	596.4
60°	525.3	521.2	511.9	511.9	510.9	509.9	504.7	503.7	498.6	499.6	495.5
62.5°	445.0	442.9	430.6	426.5	426.5	423.4	418.2	417.2	410.0	410.0	405.8
65°	372.9	366.7	359.5	352.3	352.3	348.2	345.1	335.8	330.7	327.6	321.4
67.5°	307.0	297.7	290.5	284.3	280.2	279.1	271.9	265.8	257.5	252.4	243.1
70°	243.1	235.9	228.7	222.5	218.4	214.3	207.0	197.8	191.6	182.3	176.1
72.5°	183.4	177.2	171.0	162.8	157.6	154.5	147.3	139.1	128.8	122.6	114.3
75°	131.8	124.6	116.4	109.2	106.1	103.0	94.8	88.6	81.4	74.2	65.9
77.5°	85.5	77.3	71.1	62.8	61.8	59.7	51.5	45.3	40.2	36.1	30.9
80°	45.3	41.2	36.1	30.9	28.8	25.8	21.6	18.5	15.5	12.4	10.3
82.5°	19.6	16.5	13.4	11.3	10.3	9.3	7.2	6.2	5.2	5.2	4.1
85°	5.2	4.1	4.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1
2.5°	2743.1	2744.1	2745.1	2745.1	2746.2	2747.2	2747.2	2748.2	2749.3	2750.3	2750.3
5°	2737.9	2737.9	2737.9	2739.0	2739.0	2739.0	2739.0	2741.0	2741.0	2742.1	2743.1
7.5°	2727.6	2727.6	2727.6	2727.6	2726.6	2727.6	2726.6	2726.6	2728.7	2729.7	2730.7
10°	2711.2	2710.1	2710.1	2709.1	2709.1	2709.1	2710.1	2711.2	2712.2	2713.2	2716.3
12.5°	2685.4	2684.4	2684.4	2683.3	2683.3	2684.4	2685.4	2687.5	2691.6	2693.6	2697.8
15°	2644.2	2643.2	2644.2	2645.2	2647.3	2650.4	2653.5	2656.6	2662.7	2667.9	2673.0
17.5°	2584.5	2585.5	2586.5	2588.6	2591.7	2595.8	2604.0	2612.3	2619.5	2627.7	2636.0
20°	2502.0	2506.2	2507.2	2514.4	2516.5	2525.7	2535.0	2547.4	2558.7	2569.0	2580.3
22.5°	2403.2	2406.3	2410.4	2418.6	2423.8	2436.1	2447.5	2461.9	2474.2	2487.6	2504.1
25°	2290.9	2291.9	2304.3	2304.3	2316.6	2326.9	2340.3	2355.8	2374.3	2391.8	2403.2
27.5°	2163.2	2168.3	2177.6	2181.7	2191.0	2207.4	2218.8	2237.3	2255.9	2271.3	2283.7
30°	2029.2	2033.4	2048.8	2050.9	2058.1	2072.5	2088.0	2105.5	2119.9	2137.4	2148.7
32.5°	1888.1	1899.5	1908.7	1915.9	1918.0	1939.6	1947.9	1960.2	1976.7	1994.2	2005.6
35°	1751.1	1756.3	1769.7	1773.8	1780.0	1792.3	1808.8	1819.1	1827.4	1838.7	1852.1
37.5°	1605.9	1621.3	1624.4	1636.8	1638.8	1650.2	1658.4	1670.8	1681.1	1691.4	1693.4
40°	1470.9	1476.1	1487.4	1490.5	1492.6	1508.0	1518.3	1521.4	1526.6	1535.8	1548.2
42.5°	1333.9	1339.1	1351.5	1348.4	1357.6	1364.8	1370.0	1382.4	1387.5	1390.6	1390.6
45°	1199.0	1201.1	1209.3	1213.4	1218.6	1222.7	1232.0	1238.1	1240.2	1249.5	1252.6
47.5°	1070.2	1072.3	1078.5	1085.7	1083.6	1088.8	1099.1	1102.2	1103.2	1109.4	1112.5
50°	943.5	948.7	956.9	954.9	961.1	964.1	973.4	975.5	975.5	976.5	977.5
52.5°	825.1	829.2	831.3	833.3	836.4	841.6	845.7	843.6	847.8	851.9	848.8
55°	707.7	710.8	715.9	718.0	718.0	719.0	716.9	726.2	722.1	721.1	722.1
57.5°	600.5	596.4	595.4	600.5	602.6	601.6	598.5	602.6	602.6	600.5	597.4
60°	496.5	493.4	492.4	493.4	489.3	486.2	488.3	486.2	481.0	479.0	480.0
62.5°	401.7	398.6	390.4	390.4	388.3	387.3	379.1	380.1	376.0	369.8	371.9
65°	314.2	305.9	301.8	300.8	293.6	287.4	285.3	278.1	271.9	270.9	271.9
67.5°	235.9	226.6	219.4	216.3	212.2	207.0	199.8	193.7	195.7	194.7	198.8
70°	163.8	157.6	150.4	145.2	147.3	141.1	137.0	137.0	138.0	139.1	141.1
72.5°	109.2	100.9	97.9	94.8	92.7	88.6	90.6	90.6	89.6	90.6	88.6
75°	61.8	57.7	54.6	53.6	51.5	51.5	51.5	51.5	50.5	49.4	49.4
77.5°	27.8	25.8	24.7	23.7	23.7	23.7	22.7	21.6	21.6	21.6	20.6
80°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
82.5°	4.1	4.1	5.2	5.2	5.2	4.1	5.2	5.2	4.1	4.1	5.2
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°	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	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: P859258

CATALOG NUMBER: LX4C60D010 EX4C609050 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1
2.5°	2751.3	2752.4	2752.4	2752.4	2753.4	2753.4	2753.4	2753.4
5°	2744.1	2745.1	2745.1	2745.1	2746.2	2746.2	2746.2	2746.2
7.5°	2731.8	2732.8	2732.8	2733.8	2733.8	2734.8	2734.8	2735.9
10°	2717.3	2719.4	2720.4	2721.5	2722.5	2723.5	2723.5	2724.5
12.5°	2701.9	2703.9	2705.0	2707.0	2709.1	2710.1	2711.2	2712.2
15°	2679.2	2683.3	2685.4	2686.4	2690.6	2692.6	2693.6	2694.7
17.5°	2643.2	2651.4	2654.5	2656.6	2660.7	2664.8	2667.9	2668.9
20°	2591.7	2600.9	2605.1	2610.2	2616.4	2621.5	2623.6	2625.7
22.5°	2519.6	2529.9	2536.0	2542.2	2547.4	2552.5	2560.8	2557.7
25°	2416.6	2434.1	2441.3	2444.4	2455.7	2461.9	2466.0	2461.9
27.5°	2301.2	2311.5	2317.7	2324.9	2333.1	2339.3	2341.4	2347.5
30°	2162.1	2179.6	2178.6	2185.8	2196.1	2202.3	2204.4	2209.5
32.5°	2017.9	2026.2	2032.3	2031.3	2035.4	2046.8	2042.6	2051.9
35°	1864.4	1865.5	1875.8	1874.7	1883.0	1883.0	1883.0	1889.2
37.5°	1700.7	1713.0	1707.9	1720.2	1716.1	1719.2	1719.2	1721.3
40°	1551.3	1555.4	1555.4	1559.5	1562.6	1559.5	1561.6	1566.7
42.5°	1396.8	1400.9	1401.9	1399.9	1403.0	1412.2	1405.0	1411.2
45°	1252.6	1255.7	1259.8	1256.7	1261.8	1258.8	1261.8	1259.8
47.5°	1116.6	1115.6	1114.5	1122.8	1115.6	1116.6	1120.7	1113.5
50°	977.5	983.7	979.6	982.7	984.8	984.8	981.7	981.7
52.5°	853.9	852.9	849.8	852.9	850.8	851.9	853.9	851.9
55°	726.2	730.3	728.3	727.2	728.3	728.3	734.4	726.2
57.5°	600.5	598.5	601.6	608.8	601.6	606.7	609.8	610.8
60°	481.0	481.0	487.2	484.1	490.3	495.5	499.6	497.5
62.5°	366.7	371.9	373.9	374.9	381.1	385.2	385.2	384.2
65°	271.9	279.1	279.1	283.3	285.3	285.3	287.4	291.5
67.5°	200.9	200.9	201.9	204.0	202.9	202.9	205.0	206.0
70°	140.1	138.0	141.1	140.1	140.1	139.1	140.1	140.1
72.5°	88.6	88.6	89.6	88.6	86.5	87.6	87.6	89.6
75°	47.4	49.4	47.4	47.4	48.4	46.4	47.4	48.4
77.5°	19.6	19.6	19.6	19.6	19.6	18.5	18.5	18.5
80°	9.3	9.3	9.3	9.3	9.3	9.3	8.2	8.2
82.5°	4.1	5.2	4.1	5.2	4.1	4.1	4.1	4.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0
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)