

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: P859237

Luminaire Tested: **LX4C60D010 EX4C609040 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859237  
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 EX4C609040 4LBLWW\*  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

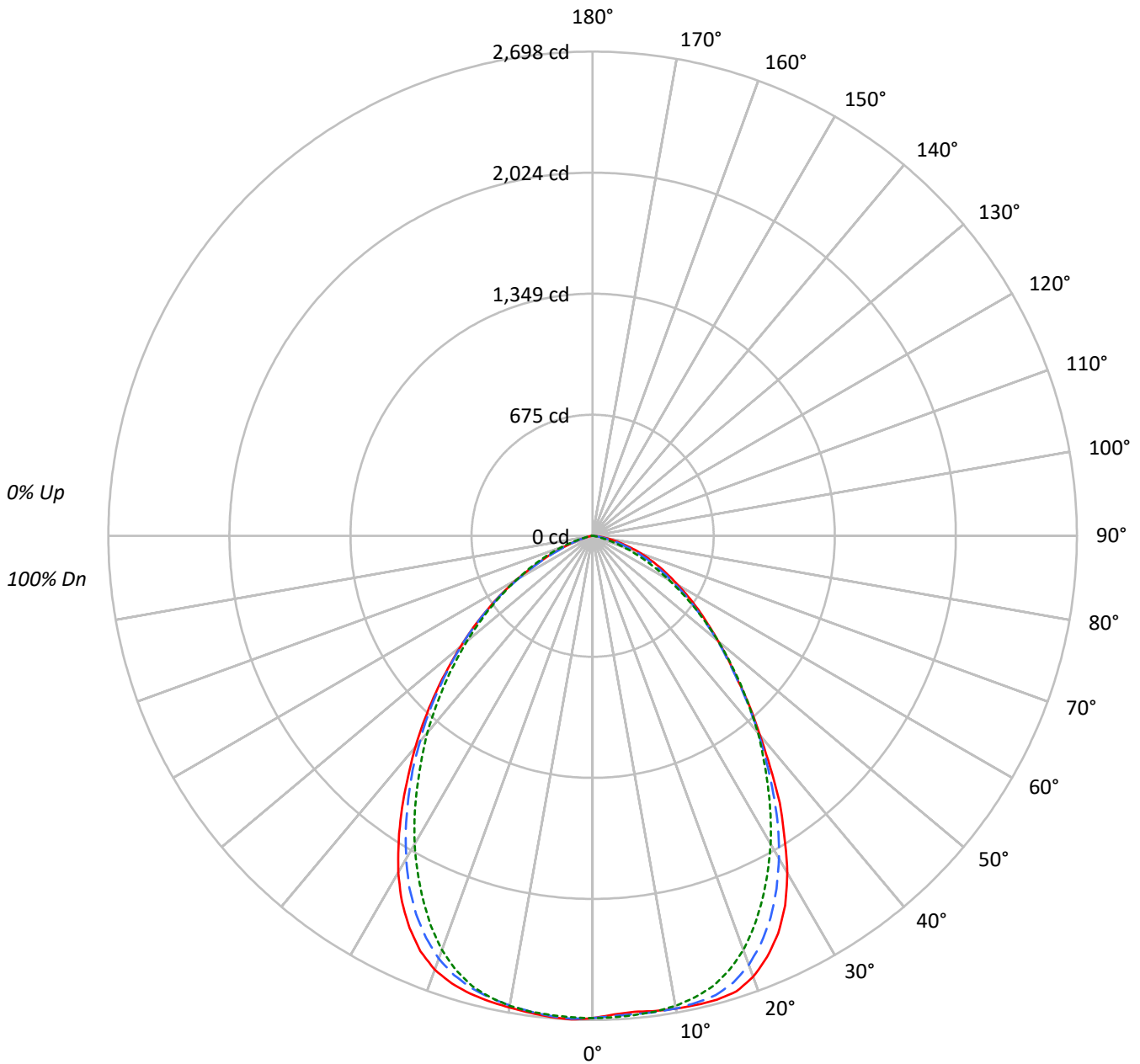
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5153.0 lumens  
Efficiency: N/A  
Efficacy: 71.6 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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### 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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54			54
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39			39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36			36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33			33

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

	0°	90°	180°
0°	330206	330206	330206
5°	328359	330591	331837
10°	333790	331769	333029
15°	340315	330305	335825
20°	342024	321053	336349
25°	331510	303180	326996
30°	307692	281349	307125
35°	272477	255215	277621
40°	232285	229848	246206
45°	199559	201835	214466
50°	174192	174575	183844
55°	153916	147447	152417
60°	134918	120274	119782
65°	119418	93313	83023
70°	101869	64153	49318
75°	82403	34508	22499
80°	56387	8561	5731
85°	17056	2819	2819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.4	5.0
10°-20°	739.5	14.4
20°-30°	1068.5	20.7
30°-40°	1104.6	21.4
40°-50°	912.7	17.7
50°-60°	629.9	12.2
60°-70°	329.8	6.4
70°-80°	103.8	2.0
80°-90°	8.8	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°	2063.4	40.0
0°-40°	3168.0	61.5
0°-60°	4710.6	91.4
0°-90°	5153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5153.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2688	2688	2688	2688	2688	
5°	2663	2676	2681	2686	2691	255
15°	2676	2650	2597	2609	2640	755
25°	2446	2347	2237	2326	2412	1117
35°	1817	1756	1702	1790	1851	1128
45°	1149	1144	1162	1215	1234	895
55°	719	696	688	708	712	646
65°	411	372	321	266	286	407
75°	174	136	73	50	47	186
85°	12	6	2	2	2	25
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°	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8
2.5°	2670.6	2671.6	2671.6	2673.7	2673.7	2673.7	2674.7	2674.7	2675.7	2676.7	2677.7
5°	2662.6	2662.6	2664.6	2665.6	2667.6	2668.6	2670.6	2671.6	2673.7	2674.7	2675.7
7.5°	2670.6	2670.6	2671.6	2672.7	2672.7	2673.7	2673.7	2674.7	2675.7	2676.7	2676.7
10°	2675.7	2675.7	2675.7	2675.7	2676.7	2676.7	2676.7	2675.7	2675.7	2675.7	2674.7
12.5°	2677.7	2677.7	2676.7	2675.7	2676.7	2675.7	2675.7	2672.7	2670.6	2668.6	2665.6
15°	2675.7	2675.7	2674.7	2673.7	2672.7	2670.6	2669.6	2664.6	2660.5	2654.5	2650.5
17.5°	2662.6	2660.5	2658.5	2656.5	2652.5	2649.4	2647.4	2638.3	2631.3	2621.2	2610.1
20°	2616.1	2614.1	2611.1	2606.0	2601.0	2597.0	2590.9	2577.8	2570.7	2555.6	2544.5
22.5°	2540.4	2538.4	2539.4	2530.3	2520.3	2514.2	2510.2	2499.1	2486.9	2467.8	2455.7
25°	2445.6	2439.5	2439.5	2425.4	2420.3	2416.3	2411.2	2398.1	2380.0	2362.8	2346.6
27.5°	2322.4	2314.4	2310.3	2308.3	2296.2	2287.1	2280.0	2269.9	2254.8	2239.7	2217.5
30°	2169.0	2168.0	2163.0	2153.9	2144.8	2140.7	2132.7	2115.5	2101.4	2090.3	2076.2
32.5°	1988.3	1987.3	1987.3	1987.3	1981.3	1980.3	1968.2	1959.1	1948.0	1930.8	1921.7
35°	1816.8	1815.8	1816.8	1801.6	1797.6	1794.6	1793.5	1787.5	1772.4	1764.3	1756.2
37.5°	1623.0	1626.0	1624.0	1619.9	1625.0	1615.9	1623.0	1609.9	1603.8	1601.8	1592.7
40°	1448.4	1456.4	1448.4	1449.4	1454.4	1445.3	1445.3	1443.3	1439.3	1437.3	1435.2
42.5°	1299.0	1288.9	1294.9	1289.9	1294.9	1291.9	1286.9	1289.9	1290.9	1286.9	1285.9
45°	1148.6	1150.6	1152.6	1149.6	1149.6	1146.6	1154.7	1149.6	1149.6	1150.6	1143.6
47.5°	1026.5	1023.4	1025.5	1023.4	1024.5	1022.4	1024.5	1025.5	1023.4	1023.4	1017.4
50°	911.4	909.4	916.5	910.4	910.4	909.4	910.4	908.4	905.4	905.4	907.4
52.5°	811.5	807.4	806.4	811.5	804.4	804.4	805.4	803.4	799.4	797.4	792.3
55°	718.6	717.6	718.6	714.6	712.6	712.6	707.5	705.5	704.5	699.5	696.4
57.5°	631.8	628.8	629.8	628.8	624.8	623.8	619.7	619.7	615.7	611.6	606.6
60°	549.1	549.1	552.1	548.1	545.0	543.0	541.0	539.0	531.9	524.8	518.8
62.5°	475.4	476.4	475.4	472.4	470.3	468.3	466.3	460.2	454.2	450.2	443.1
65°	410.8	409.8	406.8	404.7	399.7	399.7	395.7	392.6	385.6	379.5	372.4
67.5°	344.2	342.2	342.2	342.2	336.1	335.1	333.1	327.0	321.0	312.9	306.8
70°	283.6	285.6	282.6	279.6	276.6	275.5	272.5	266.5	259.4	251.3	246.3
72.5°	226.1	228.1	225.1	224.1	218.0	216.0	215.0	209.9	201.9	196.8	188.7
75°	173.6	174.6	172.6	170.6	166.5	165.5	160.5	156.4	151.4	143.3	136.3
77.5°	125.2	123.1	123.1	119.1	115.1	115.1	114.1	108.0	100.9	94.9	88.8
80°	79.7	78.7	75.7	73.7	70.7	69.6	68.6	63.6	58.5	54.5	50.5
82.5°	40.4	39.4	38.4	37.3	35.3	33.3	34.3	30.3	28.3	24.2	21.2
85°	12.1	13.1	13.1	12.1	11.1	11.1	11.1	10.1	8.1	7.1	6.1
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°	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8
2.5°	2678.7	2679.7	2680.7	2681.7	2681.7	2682.8	2683.8	2684.8	2685.8	2685.8	2686.8
5°	2676.7	2678.7	2678.7	2679.7	2679.7	2679.7	2680.7	2680.7	2680.7	2680.7	2681.7
7.5°	2677.7	2677.7	2677.7	2676.7	2676.7	2675.7	2675.7	2675.7	2673.7	2673.7	2673.7
10°	2672.7	2671.6	2670.6	2668.6	2667.6	2666.6	2664.6	2662.6	2660.5	2659.5	2657.5
12.5°	2662.6	2658.5	2654.5	2650.5	2648.4	2647.4	2643.4	2640.4	2637.3	2634.3	2632.3
15°	2642.4	2636.3	2629.3	2621.2	2619.2	2617.1	2610.1	2604.0	2600.0	2597.0	2591.9
17.5°	2602.0	2589.9	2581.8	2569.7	2564.7	2562.6	2551.5	2545.5	2538.4	2536.4	2532.4
20°	2530.3	2519.2	2504.1	2493.0	2486.9	2480.9	2471.8	2463.7	2455.7	2455.7	2450.6
22.5°	2440.5	2426.4	2407.2	2393.1	2392.1	2380.0	2371.9	2362.8	2359.8	2353.7	2353.7
25°	2327.5	2315.4	2294.2	2282.1	2276.0	2273.0	2259.8	2247.7	2241.7	2236.6	2240.7
27.5°	2202.3	2184.2	2168.0	2152.9	2147.8	2141.8	2129.6	2124.6	2113.5	2112.5	2111.5
30°	2059.0	2040.8	2024.7	2017.6	2007.5	2002.5	1993.4	1987.3	1983.3	1983.3	1981.3
32.5°	1908.6	1892.5	1884.4	1869.2	1864.2	1857.1	1851.1	1845.0	1847.0	1845.0	1846.0
35°	1746.1	1742.1	1726.9	1717.8	1717.8	1716.8	1706.7	1702.7	1700.7	1701.7	1706.7
37.5°	1591.7	1579.6	1569.5	1563.4	1568.5	1562.4	1561.4	1561.4	1567.5	1563.4	1571.5
40°	1427.2	1426.2	1422.1	1424.1	1425.1	1418.1	1420.1	1421.1	1425.1	1433.2	1434.2
42.5°	1283.8	1282.8	1282.8	1282.8	1280.8	1276.8	1280.8	1287.9	1286.9	1292.9	1298.0
45°	1145.6	1143.6	1147.6	1144.6	1150.6	1152.6	1149.6	1151.6	1157.7	1161.7	1169.8
47.5°	1019.4	1019.4	1020.4	1022.4	1016.4	1021.4	1023.4	1027.5	1030.5	1032.5	1036.6
50°	902.3	902.3	900.3	900.3	900.3	903.3	899.3	904.3	905.4	913.4	918.5
52.5°	794.3	789.3	792.3	790.3	786.3	784.2	786.3	787.3	793.3	795.3	801.4
55°	691.4	691.4	683.3	681.3	684.3	683.3	682.3	682.3	685.3	688.4	693.4
57.5°	600.5	594.5	588.4	587.4	584.4	585.4	585.4	584.4	582.4	583.4	584.4
60°	514.7	510.7	501.6	501.6	500.6	499.6	494.6	493.6	488.5	489.5	485.5
62.5°	436.0	434.0	421.9	417.9	417.9	414.8	409.8	408.8	401.7	401.7	397.7
65°	365.4	359.3	352.2	345.2	345.2	341.1	338.1	329.0	324.0	321.0	314.9
67.5°	300.8	291.7	284.6	278.6	274.5	273.5	266.5	260.4	252.3	247.3	238.2
70°	238.2	231.1	224.1	218.0	214.0	209.9	202.9	193.8	187.7	178.6	172.6
72.5°	179.7	173.6	167.5	159.5	154.4	151.4	144.3	136.3	126.2	120.1	112.0
75°	129.2	122.1	114.1	107.0	104.0	100.9	92.9	86.8	79.7	72.7	64.6
77.5°	83.8	75.7	69.6	61.6	60.6	58.5	50.5	44.4	39.4	35.3	30.3
80°	44.4	40.4	35.3	30.3	28.3	25.2	21.2	18.2	15.1	12.1	10.1
82.5°	19.2	16.1	13.1	11.1	10.1	9.1	7.1	6.1	5.0	5.0	4.0
85°	5.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8
2.5°	2687.8	2688.8	2689.8	2689.8	2690.8	2691.8	2691.8	2692.8	2693.9	2694.9	2694.9
5°	2682.8	2682.8	2682.8	2683.8	2683.8	2683.8	2683.8	2685.8	2685.8	2686.8	2687.8
7.5°	2672.7	2672.7	2672.7	2672.7	2671.6	2672.7	2671.6	2671.6	2673.7	2674.7	2675.7
10°	2656.5	2655.5	2655.5	2654.5	2654.5	2654.5	2655.5	2656.5	2657.5	2658.5	2661.6
12.5°	2631.3	2630.3	2630.3	2629.3	2629.3	2630.3	2631.3	2633.3	2637.3	2639.3	2643.4
15°	2590.9	2589.9	2590.9	2591.9	2593.9	2597.0	2600.0	2603.0	2609.1	2614.1	2619.2
17.5°	2532.4	2533.4	2534.4	2536.4	2539.4	2543.5	2551.5	2559.6	2566.7	2574.8	2582.8
20°	2451.6	2455.7	2456.7	2463.7	2465.7	2474.8	2483.9	2496.0	2507.1	2517.2	2528.3
22.5°	2354.7	2357.8	2361.8	2369.9	2374.9	2387.0	2398.1	2412.3	2424.4	2437.5	2453.6
25°	2244.7	2245.7	2257.8	2257.8	2269.9	2280.0	2293.2	2308.3	2326.5	2343.6	2354.7
27.5°	2119.6	2124.6	2133.7	2137.7	2146.8	2163.0	2174.1	2192.2	2210.4	2225.5	2237.6
30°	1988.3	1992.4	2007.5	2009.5	2016.6	2030.7	2045.9	2063.0	2077.2	2094.3	2105.4
32.5°	1850.1	1861.2	1870.3	1877.3	1879.3	1900.5	1908.6	1920.7	1936.9	1954.0	1965.1
35°	1715.8	1720.9	1734.0	1738.0	1744.1	1756.2	1772.4	1782.4	1790.5	1801.6	1814.7
37.5°	1573.5	1588.7	1591.7	1603.8	1605.8	1616.9	1625.0	1637.1	1647.2	1657.3	1659.3
40°	1441.3	1446.3	1457.4	1460.5	1462.5	1477.6	1487.7	1490.8	1495.8	1504.9	1517.0
42.5°	1307.1	1312.1	1324.2	1321.2	1330.3	1337.3	1342.4	1354.5	1359.5	1362.6	1362.6
45°	1174.8	1176.9	1184.9	1189.0	1194.0	1198.1	1207.1	1213.2	1215.2	1224.3	1227.3
47.5°	1048.7	1050.7	1056.7	1063.8	1061.8	1066.8	1076.9	1080.0	1081.0	1087.0	1090.1
50°	924.5	929.6	937.7	935.6	941.7	944.7	953.8	955.8	955.8	956.8	957.8
52.5°	808.5	812.5	814.5	816.5	819.6	824.6	828.6	826.6	830.7	834.7	831.7
55°	693.4	696.4	701.5	703.5	703.5	704.5	702.5	711.6	707.5	706.5	707.5
57.5°	588.4	584.4	583.4	588.4	590.4	589.4	586.4	590.4	590.4	588.4	585.4
60°	486.5	483.5	482.5	483.5	479.4	476.4	478.4	476.4	471.3	469.3	470.3
62.5°	393.6	390.6	382.5	382.5	380.5	379.5	371.4	372.4	368.4	362.3	364.4
65°	307.8	299.8	295.7	294.7	287.7	281.6	279.6	272.5	266.5	265.4	266.5
67.5°	231.1	222.0	215.0	212.0	207.9	202.9	195.8	189.8	191.8	190.8	194.8
70°	160.5	154.4	147.4	142.3	144.3	138.3	134.2	134.2	135.2	136.3	138.3
72.5°	107.0	98.9	95.9	92.9	90.8	86.8	88.8	88.8	87.8	88.8	86.8
75°	60.6	56.5	53.5	52.5	50.5	50.5	50.5	50.5	49.5	48.4	48.4
77.5°	27.3	25.2	24.2	23.2	23.2	23.2	22.2	21.2	21.2	21.2	20.2
80°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
82.5°	4.0	4.0	5.0	5.0	5.0	4.0	5.0	5.0	4.0	4.0	5.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P859237

CATALOG NUMBER: LX4C60D010 EX4C609040 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8
2.5°	2695.9	2696.9	2696.9	2696.9	2697.9	2697.9	2697.9	2697.9
5°	2688.8	2689.8	2689.8	2689.8	2690.8	2690.8	2690.8	2690.8
7.5°	2676.7	2677.7	2677.7	2678.7	2678.7	2679.7	2679.7	2680.7
10°	2662.6	2664.6	2665.6	2666.6	2667.6	2668.6	2668.6	2669.6
12.5°	2647.4	2649.4	2650.5	2652.5	2654.5	2655.5	2656.5	2657.5
15°	2625.2	2629.3	2631.3	2632.3	2636.3	2638.3	2639.3	2640.4
17.5°	2589.9	2598.0	2601.0	2603.0	2607.1	2611.1	2614.1	2615.1
20°	2539.4	2548.5	2552.5	2557.6	2563.7	2568.7	2570.7	2572.7
22.5°	2468.8	2478.9	2484.9	2491.0	2496.0	2501.1	2509.1	2506.1
25°	2367.8	2385.0	2392.1	2395.1	2406.2	2412.3	2416.3	2412.3
27.5°	2254.8	2264.9	2271.0	2278.0	2286.1	2292.1	2294.2	2300.2
30°	2118.5	2135.7	2134.7	2141.8	2151.9	2157.9	2159.9	2165.0
32.5°	1977.2	1985.3	1991.4	1990.4	1994.4	2005.5	2001.5	2010.5
35°	1826.9	1827.9	1838.0	1836.9	1845.0	1845.0	1845.0	1851.1
37.5°	1666.4	1678.5	1673.4	1685.6	1681.5	1684.5	1684.5	1686.6
40°	1520.0	1524.1	1524.1	1528.1	1531.1	1528.1	1530.1	1535.2
42.5°	1368.6	1372.7	1373.7	1371.7	1374.7	1383.8	1376.7	1382.8
45°	1227.3	1230.4	1234.4	1231.4	1236.4	1233.4	1236.4	1234.4
47.5°	1094.1	1093.1	1092.1	1100.1	1093.1	1094.1	1098.1	1091.1
50°	957.8	963.9	959.9	962.9	964.9	964.9	961.9	961.9
52.5°	836.7	835.7	832.7	835.7	833.7	834.7	836.7	834.7
55°	711.6	715.6	713.6	712.6	713.6	713.6	719.6	711.6
57.5°	588.4	586.4	589.4	596.5	589.4	594.5	597.5	598.5
60°	471.3	471.3	477.4	474.4	480.4	485.5	489.5	487.5
62.5°	359.3	364.4	366.4	367.4	373.4	377.5	377.5	376.5
65°	266.5	273.5	273.5	277.6	279.6	279.6	281.6	285.6
67.5°	196.8	196.8	197.8	199.8	198.8	198.8	200.9	201.9
70°	137.3	135.2	138.3	137.3	137.3	136.3	137.3	137.3
72.5°	86.8	86.8	87.8	86.8	84.8	85.8	85.8	87.8
75°	46.4	48.4	46.4	46.4	47.4	45.4	46.4	47.4
77.5°	19.2	19.2	19.2	19.2	19.2	18.2	18.2	18.2
80°	9.1	9.1	9.1	9.1	9.1	9.1	8.1	8.1
82.5°	4.0	5.0	4.0	5.0	4.0	4.0	4.0	4.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)