

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: P859176

Luminaire Tested: **LX4C60D010 EX4C609027 4LBLWWH**

Issue Date: 2/14/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P859176  
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: LX4C60D010 EX4C609027 4LBLWWH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

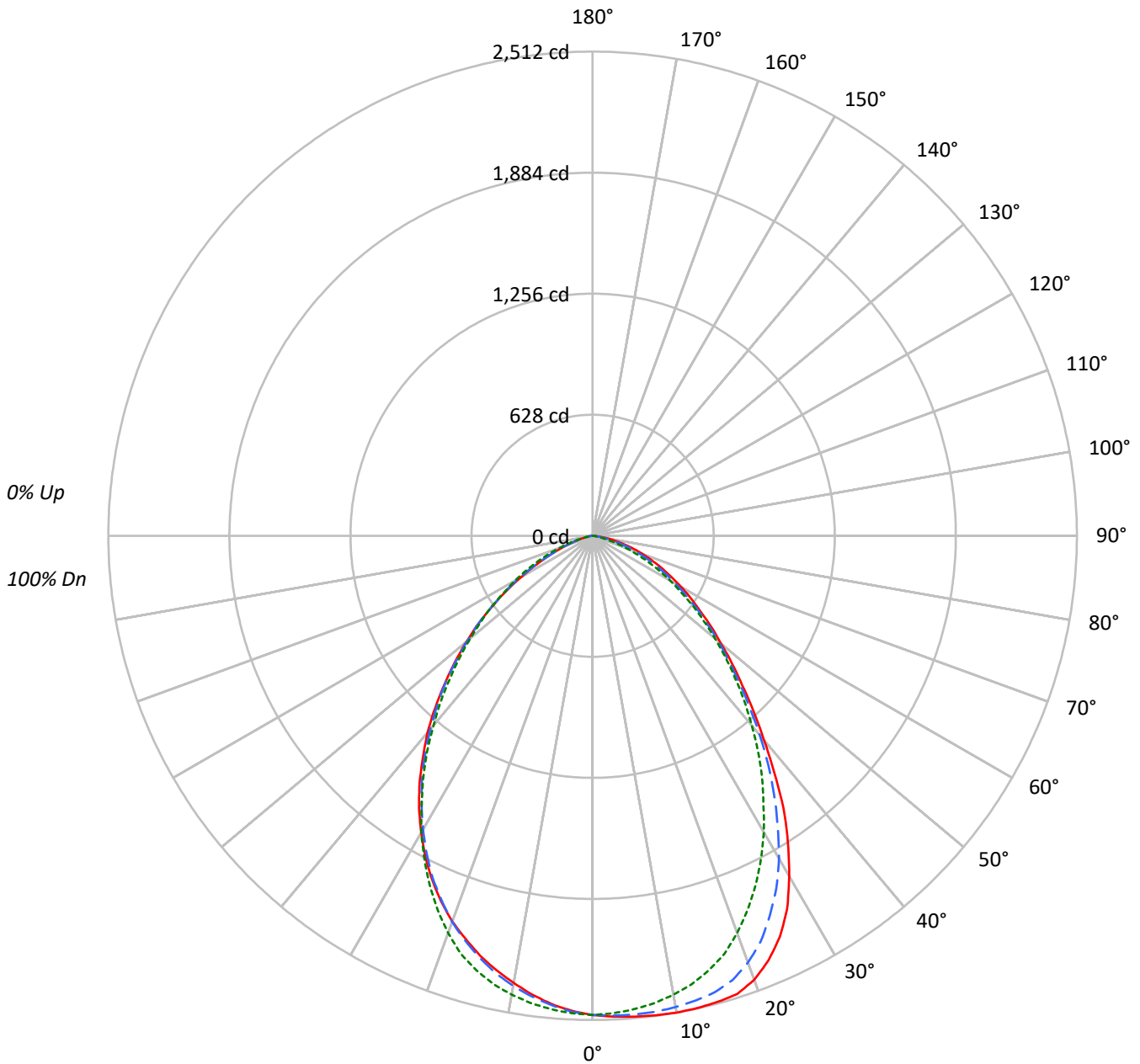
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4685.0 lumens  
Efficiency: N/A  
Efficacy: 65.1 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): 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									
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°	305414	305414	305414
5°	308813	304102	300797
10°	313344	301530	293895
15°	318490	296728	286871
20°	320517	286630	278380
25°	311326	271148	267000
30°	289321	252012	252154
35°	258979	229719	234608
40°	221733	205936	213458
45°	190872	181577	188387
50°	165936	158080	162820
55°	146012	135988	134746
60°	129905	113467	104548
65°	113953	90901	75610
70°	97882	64225	51186
75°	79412	37214	29952
80°	56811	16201	14857
85°	21567	6766	6766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.3	5.0
10°-20°	663.2	14.2
20°-30°	947.0	20.2
30°-40°	990.7	21.1
40°-50°	830.1	17.7
50°-60°	580.9	12.4
60°-70°	316.3	6.8
70°-80°	109.8	2.3
80°-90°	12.6	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°	1844.5	39.4
0°-40°	2835.2	60.5
0°-60°	4246.2	90.6
0°-90°	4685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2486	2486	2486	2486	2486	
5°	2504	2493	2466	2445	2439	239
15°	2504	2452	2333	2266	2256	707
25°	2297	2174	2000	1961	1970	1049
35°	1727	1642	1532	1543	1564	1071
45°	1099	1074	1045	1080	1084	854
55°	682	659	635	635	629	616
65°	392	358	313	263	260	390
75°	167	136	78	63	63	180
85°	15	9	5	5	5	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°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2497.4	2494.6	2495.5	2495.5	2495.5	2494.6	2495.5	2494.6	2494.6	2493.6	2491.7
5°	2504.1	2502.2	2502.2	2502.2	2501.3	2500.3	2500.3	2499.4	2497.4	2496.5	2492.7
7.5°	2508.9	2507.0	2507.0	2506.1	2505.1	2504.1	2503.2	2500.3	2497.4	2495.5	2490.8
10°	2511.8	2508.9	2508.9	2507.0	2505.1	2504.1	2502.2	2498.4	2494.6	2489.8	2483.1
12.5°	2509.9	2507.0	2506.1	2504.1	2500.3	2498.4	2496.5	2491.7	2485.0	2478.3	2469.7
15°	2504.1	2502.2	2500.3	2497.4	2492.7	2489.8	2487.9	2480.2	2471.6	2462.1	2451.6
17.5°	2492.7	2489.8	2486.0	2482.2	2475.5	2472.6	2467.8	2458.2	2445.8	2432.4	2416.2
20°	2451.6	2449.6	2445.8	2439.1	2428.6	2424.8	2418.1	2405.7	2389.4	2373.2	2355.9
22.5°	2383.7	2380.8	2375.1	2369.3	2359.8	2353.1	2347.3	2330.1	2312.0	2294.7	2278.5
25°	2296.7	2293.8	2286.1	2278.5	2268.9	2257.5	2251.7	2238.3	2220.2	2198.2	2174.3
27.5°	2184.8	2175.2	2172.4	2163.8	2149.4	2145.6	2137.0	2119.8	2102.6	2083.4	2063.4
30°	2039.5	2039.5	2033.7	2029.9	2016.5	2012.7	2003.1	1985.0	1975.4	1948.6	1933.3
32.5°	1885.5	1883.6	1878.8	1876.0	1868.3	1861.6	1852.1	1842.5	1821.5	1808.1	1787.0
35°	1726.8	1715.3	1717.2	1711.5	1706.7	1699.1	1698.1	1687.6	1668.5	1660.8	1641.7
37.5°	1546.1	1541.3	1548.0	1539.4	1534.6	1535.6	1527.9	1521.2	1513.6	1500.2	1496.4
40°	1382.6	1386.4	1385.5	1377.8	1381.6	1376.8	1369.2	1362.5	1358.7	1350.1	1347.2
42.5°	1236.3	1230.6	1228.6	1228.6	1229.6	1229.6	1225.8	1221.0	1221.0	1212.4	1203.8
45°	1098.6	1098.6	1096.7	1102.4	1093.8	1093.8	1091.0	1090.0	1086.2	1084.3	1073.8
47.5°	980.0	979.1	978.1	977.2	976.2	976.2	970.5	965.7	964.7	959.0	953.3
50°	868.2	873.9	872.0	867.2	865.3	866.3	862.4	859.6	858.6	849.1	850.0
52.5°	774.5	773.5	775.4	772.6	767.8	768.7	764.9	761.1	757.3	752.5	748.7
55°	681.7	686.5	684.6	681.7	680.8	678.9	676.0	671.2	670.3	659.7	658.8
57.5°	604.3	603.3	601.4	596.6	595.7	592.8	592.8	589.0	583.2	577.5	572.7
60°	528.7	528.7	525.9	524.9	521.1	520.1	519.2	515.4	508.7	503.9	496.2
62.5°	456.1	458.0	456.1	453.2	450.3	446.5	444.6	441.7	436.0	431.2	424.5
65°	392.0	391.1	390.1	386.3	385.3	381.5	380.5	374.8	369.1	365.2	357.6
67.5°	330.8	328.0	328.0	326.0	324.1	321.3	319.4	313.6	306.9	303.1	295.4
70°	272.5	270.6	270.6	270.6	265.8	262.9	262.0	259.1	249.6	245.7	238.1
72.5°	219.0	218.0	217.0	214.2	211.3	211.3	207.5	201.7	197.0	192.2	186.4
75°	167.3	169.2	167.3	163.5	162.5	160.6	157.8	153.0	148.2	142.5	135.8
77.5°	122.4	120.5	118.6	118.6	116.6	112.8	111.9	108.0	102.3	98.5	91.8
80°	80.3	79.4	77.4	75.5	74.6	73.6	72.7	68.8	63.1	60.2	54.5
82.5°	44.0	43.0	43.0	42.1	39.2	39.2	38.2	34.4	31.6	29.6	26.8
85°	15.3	15.3	15.3	14.3	14.3	14.3	13.4	12.4	11.5	10.5	8.6
87.5°	1.9	1.0	1.9	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0
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°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2489.8	2487.9	2486.9	2486.0	2485.0	2484.1	2483.1	2481.2	2480.2	2479.3	2477.4
5°	2489.8	2486.0	2484.1	2481.2	2479.3	2477.4	2474.5	2471.6	2468.8	2465.9	2463.0
7.5°	2486.0	2480.2	2476.4	2470.7	2468.8	2465.9	2460.2	2456.3	2451.6	2445.8	2439.1
10°	2476.4	2469.7	2462.1	2454.4	2451.6	2446.8	2439.1	2432.4	2424.8	2417.1	2410.4
12.5°	2461.1	2450.6	2441.0	2430.5	2424.8	2420.0	2409.5	2399.9	2390.4	2381.8	2370.3
15°	2438.2	2425.7	2413.3	2399.0	2392.3	2386.5	2371.2	2359.8	2344.5	2333.0	2321.5
17.5°	2400.9	2381.8	2366.5	2348.3	2338.7	2332.0	2318.6	2300.5	2286.1	2273.7	2260.3
20°	2336.8	2318.6	2297.6	2277.5	2267.0	2258.4	2239.3	2220.2	2205.8	2192.4	2178.1
22.5°	2252.7	2229.7	2214.4	2189.6	2181.0	2170.4	2147.5	2130.3	2114.0	2100.6	2087.3
25°	2150.4	2130.3	2109.3	2086.3	2075.8	2063.4	2044.2	2026.1	2015.6	2000.3	1984.0
27.5°	2032.8	2016.5	1990.7	1970.6	1960.1	1950.5	1932.4	1916.1	1900.8	1890.3	1875.0
30°	1908.5	1889.3	1866.4	1845.4	1839.6	1828.1	1811.9	1799.5	1783.2	1776.5	1769.8
32.5°	1771.7	1749.7	1732.5	1719.1	1707.7	1698.1	1689.5	1669.4	1666.6	1649.3	1647.4
35°	1622.6	1613.0	1596.8	1585.3	1575.7	1569.0	1554.7	1545.1	1534.6	1531.7	1525.1
37.5°	1482.0	1470.5	1455.3	1444.7	1438.0	1437.1	1426.6	1420.8	1413.2	1409.4	1401.7
40°	1334.8	1330.0	1316.6	1314.7	1304.2	1303.2	1297.5	1290.8	1284.1	1284.1	1285.1
42.5°	1199.0	1193.3	1187.5	1180.8	1175.1	1175.1	1172.2	1170.3	1168.4	1165.5	1170.3
45°	1071.8	1064.2	1060.4	1053.7	1056.5	1050.8	1048.9	1048.9	1046.0	1045.1	1051.8
47.5°	953.3	944.7	940.8	938.9	938.9	939.9	931.3	934.2	933.2	935.1	938.0
50°	845.2	837.6	831.8	831.8	832.8	829.0	825.2	828.0	825.2	827.1	833.8
52.5°	744.8	737.2	734.3	734.3	728.6	727.6	729.5	725.7	726.7	727.6	731.5
55°	652.1	647.3	642.5	637.7	638.7	636.8	633.0	632.0	633.9	634.9	639.7
57.5°	568.9	562.2	555.5	553.6	551.7	551.7	546.9	546.0	547.9	543.1	543.1
60°	489.5	485.7	477.1	474.2	474.2	469.5	465.6	467.6	462.8	461.8	462.8
62.5°	415.9	413.1	407.3	401.6	399.7	397.8	393.0	391.1	389.2	385.3	379.6
65°	351.9	345.2	338.5	334.7	331.8	327.0	324.1	320.3	314.6	312.7	306.9
67.5°	287.8	281.1	274.4	271.5	268.7	265.8	261.0	256.2	249.6	241.9	235.2
70°	231.4	222.8	219.0	211.3	209.4	205.6	198.9	194.1	187.4	178.8	172.1
72.5°	176.9	171.1	165.4	158.7	153.9	151.1	145.3	137.7	130.0	125.3	118.6
75°	127.2	124.3	116.6	109.0	107.1	103.3	96.6	91.8	86.1	78.4	72.7
77.5°	86.1	80.3	75.5	68.8	66.9	63.1	59.3	54.5	50.7	45.9	42.1
80°	50.7	45.9	43.0	38.2	36.3	34.4	31.6	27.7	24.9	22.9	22.0
82.5°	24.9	21.0	20.1	17.2	16.3	15.3	13.4	12.4	10.5	10.5	10.5
85°	8.6	6.7	6.7	5.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.0
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°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2476.4	2475.5	2474.5	2473.5	2473.5	2472.6	2472.6	2471.6	2471.6	2470.7	2470.7
5°	2459.2	2456.3	2454.4	2452.5	2452.5	2449.6	2447.7	2445.8	2444.9	2444.9	2442.9
7.5°	2435.3	2431.5	2427.7	2424.8	2423.8	2419.0	2415.2	2415.2	2411.4	2409.5	2407.6
10°	2403.7	2397.1	2391.3	2388.4	2384.6	2381.8	2377.0	2374.1	2371.2	2366.5	2365.5
12.5°	2360.7	2355.9	2347.3	2343.5	2341.6	2335.9	2328.2	2324.4	2323.4	2319.6	2316.7
15°	2312.0	2301.4	2293.8	2289.0	2289.0	2279.4	2275.6	2269.9	2266.1	2263.2	2262.2
17.5°	2248.9	2238.3	2230.7	2224.0	2222.1	2214.4	2208.7	2206.8	2202.0	2203.9	2199.1
20°	2167.6	2159.0	2153.2	2144.6	2144.6	2139.9	2137.9	2133.2	2131.2	2129.3	2131.2
22.5°	2080.6	2070.1	2060.5	2059.5	2059.5	2052.8	2051.9	2050.9	2047.1	2050.0	2049.0
25°	1978.3	1970.6	1964.9	1963.9	1963.9	1960.1	1956.3	1958.2	1961.1	1960.1	1963.0
27.5°	1872.1	1864.5	1862.6	1861.6	1859.7	1858.7	1860.7	1860.7	1863.5	1867.3	1871.2
30°	1757.4	1755.5	1752.6	1751.7	1749.7	1754.5	1756.4	1759.3	1758.3	1764.1	1767.9
32.5°	1642.7	1638.8	1637.9	1639.8	1642.7	1641.7	1647.4	1649.3	1651.3	1658.0	1660.8
35°	1527.0	1526.0	1524.1	1524.1	1525.1	1532.7	1532.7	1539.4	1543.2	1545.1	1552.8
37.5°	1402.7	1406.5	1408.4	1411.3	1412.2	1415.1	1417.0	1423.7	1427.5	1431.3	1435.2
40°	1288.9	1287.0	1295.6	1289.8	1291.8	1300.4	1304.2	1303.2	1309.0	1314.7	1318.5
42.5°	1167.5	1170.3	1172.2	1174.1	1178.9	1179.9	1184.7	1191.4	1193.3	1200.0	1201.9
45°	1049.8	1050.8	1054.6	1058.5	1061.3	1069.0	1070.9	1073.8	1079.5	1079.5	1082.4
47.5°	938.9	942.8	942.8	948.5	953.3	952.3	959.0	960.9	960.0	964.7	966.7
50°	832.8	838.5	837.6	841.4	843.3	844.3	850.0	851.9	848.1	852.9	853.8
52.5°	731.5	734.3	738.1	739.1	737.2	742.0	740.1	743.9	742.9	746.7	742.9
55°	638.7	637.7	637.7	639.7	637.7	639.7	641.6	637.7	634.9	638.7	637.7
57.5°	546.0	546.0	544.0	546.9	544.0	541.2	540.2	537.4	534.5	534.5	533.5
60°	458.9	457.0	453.2	452.3	452.3	447.5	445.6	441.7	441.7	437.9	434.1
62.5°	377.7	372.9	370.0	370.0	368.1	363.3	354.7	349.0	347.1	341.3	340.4
65°	301.2	296.4	293.5	287.8	283.0	281.1	272.5	265.8	262.9	257.2	258.2
67.5°	231.4	223.7	215.1	211.3	208.4	201.7	198.9	194.1	191.2	191.2	191.2
70°	166.4	159.7	151.1	148.2	146.3	140.6	137.7	136.7	139.6	138.6	139.6
72.5°	111.9	105.2	101.4	99.4	97.5	94.7	96.6	97.5	95.6	96.6	97.5
75°	67.9	66.0	63.1	62.1	62.1	63.1	62.1	62.1	63.1	63.1	64.1
77.5°	39.2	37.3	37.3	36.3	38.2	37.3	37.3	37.3	38.2	38.2	38.2
80°	21.0	21.0	21.0	21.0	22.0	21.0	22.0	22.0	22.0	22.0	22.0
82.5°	10.5	10.5	10.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	10.5
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	1.0	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
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: P859176

CATALOG NUMBER: LX4C60D010 EX4C609027 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2468.8	2468.8	2468.8	2466.9	2467.8	2467.8	2466.9	2466.9
5°	2442.0	2441.0	2439.1	2439.1	2437.2	2439.1	2438.2	2439.1
7.5°	2405.7	2405.7	2402.8	2402.8	2401.8	2400.9	2399.9	2400.9
10°	2362.6	2362.6	2360.7	2359.8	2360.7	2356.9	2356.9	2355.9
12.5°	2314.8	2312.9	2311.0	2312.0	2311.0	2308.1	2307.2	2308.1
15°	2259.4	2256.5	2257.5	2254.6	2254.6	2253.6	2255.5	2255.5
17.5°	2198.2	2196.3	2194.4	2195.3	2193.4	2194.4	2193.4	2192.4
20°	2130.3	2129.3	2129.3	2125.5	2126.5	2125.5	2126.5	2129.3
22.5°	2051.9	2050.9	2051.9	2049.0	2050.9	2050.9	2053.8	2053.8
25°	1965.8	1964.9	1966.8	1967.7	1968.7	1971.6	1968.7	1969.7
27.5°	1870.2	1873.1	1876.0	1876.9	1880.7	1877.9	1876.0	1878.8
30°	1773.6	1773.6	1772.7	1776.5	1779.4	1782.3	1777.5	1777.5
32.5°	1662.7	1667.5	1667.5	1668.5	1671.3	1671.3	1671.3	1675.2
35°	1556.6	1559.5	1560.4	1556.6	1558.5	1557.6	1564.3	1564.3
37.5°	1438.0	1438.0	1439.0	1445.7	1445.7	1442.8	1444.7	1444.7
40°	1325.2	1326.2	1322.3	1324.3	1329.0	1327.1	1329.0	1331.0
42.5°	1201.9	1208.6	1204.7	1206.7	1205.7	1206.7	1207.6	1207.6
45°	1084.3	1086.2	1086.2	1087.1	1089.0	1091.0	1085.2	1084.3
47.5°	969.5	970.5	973.4	968.6	974.3	968.6	974.3	967.6
50°	853.8	857.7	854.8	856.7	853.8	853.8	852.9	851.9
52.5°	743.9	742.9	742.9	742.0	742.0	743.9	742.0	744.8
55°	633.9	634.9	633.0	632.0	631.1	633.9	631.1	629.1
57.5°	529.7	531.6	527.8	529.7	523.0	525.9	526.8	527.8
60°	433.1	430.3	430.3	426.4	426.4	429.3	425.5	425.5
62.5°	335.6	337.5	334.7	338.5	338.5	342.3	340.4	342.3
65°	257.2	258.2	259.1	259.1	259.1	264.9	262.9	260.1
67.5°	194.1	195.1	196.0	195.1	197.9	196.0	196.0	197.0
70°	140.6	141.5	142.5	142.5	141.5	142.5	142.5	142.5
72.5°	97.5	98.5	97.5	98.5	99.4	98.5	98.5	99.4
75°	64.1	64.1	63.1	63.1	63.1	63.1	64.1	63.1
77.5°	37.3	38.2	37.3	38.2	38.2	38.2	38.2	38.2
80°	22.0	22.0	22.0	21.0	22.0	22.0	22.0	21.0
82.5°	11.5	11.5	10.5	10.5	11.5	11.5	11.5	11.5
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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)