

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: P684393

Luminaire Tested: **LX6C50D010 EX6C509050 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C50D010 EX6C509050 6LBLWWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

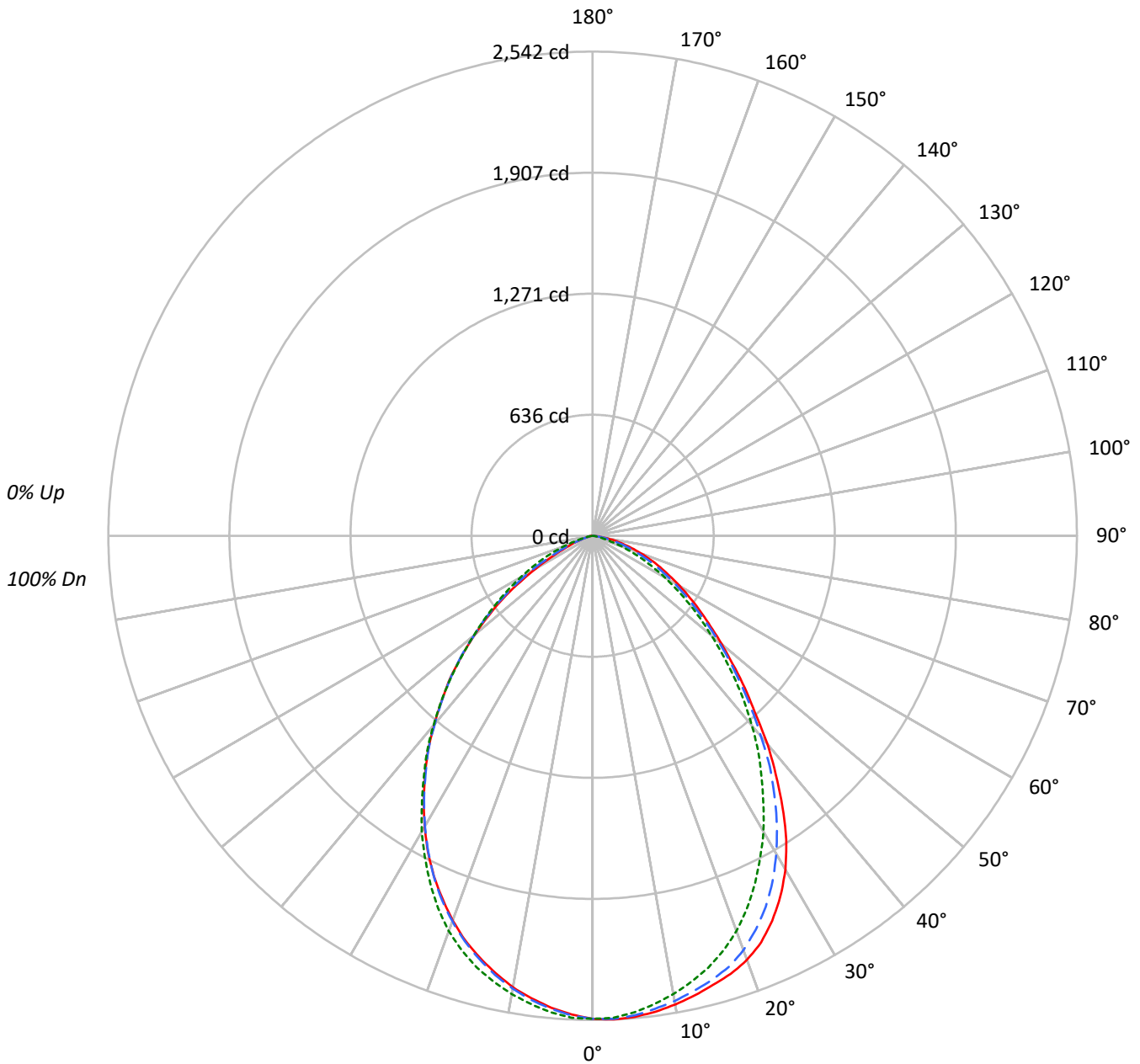
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4613.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

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

	0°	90°	180°
0°	139029	139029	139029
5°	139511	138245	136886
10°	139081	135997	134004
15°	138559	133190	130097
20°	138250	128805	125369
25°	134887	121894	119215
30°	128159	113536	111644
35°	116326	103369	102687
40°	102063	93031	92545
45°	87505	81288	81946
50°	75315	69286	68919
55°	65833	58502	54918
60°	57857	47946	37475
65°	50641	37151	22558
70°	43180	25004	13255
75°	34843	13005	7223
80°	24214	5114	4041
85°	9624	1635	2139



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.6	5.2
10°-20°	663.6	14.4
20°-30°	944.3	20.5
30°-40°	993.9	21.5
40°-50°	828.3	18.0
50°-60°	559.6	12.1
60°-70°	283.7	6.2
70°-80°	91.6	2.0
80°-90°	10.5	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°	1845.5	40.0
0°-40°	2839.3	61.6
0°-60°	4227.2	91.6
0°-90°	4613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2536	2536	2536	2536	2536	
5°	2535	2528	2512	2493	2488	241
15°	2441	2415	2347	2300	2292	690
25°	2230	2149	2015	1973	1971	1022
35°	1738	1663	1545	1529	1534	1082
45°	1129	1100	1048	1053	1057	874
55°	689	656	612	593	575	620
65°	390	352	286	207	174	389
75°	164	129	61	33	34	178
85°	15	8	3	3	3	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°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1
2.5°	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2541.2	2541.2	2539.5	2539.5	2538.6
5°	2535.2	2536.1	2536.1	2535.2	2535.2	2533.5	2533.5	2532.6	2530.1	2528.4	2527.5
7.5°	2520.7	2520.7	2519.9	2519.0	2518.2	2515.6	2514.7	2512.2	2510.5	2508.8	2505.4
10°	2498.5	2498.5	2497.7	2496.0	2495.1	2493.4	2493.4	2490.0	2486.6	2482.3	2479.8
12.5°	2472.1	2473.0	2471.3	2470.4	2467.9	2467.0	2465.3	2461.0	2458.5	2453.4	2449.1
15°	2441.4	2443.1	2443.1	2439.7	2437.2	2436.3	2433.8	2431.2	2425.2	2420.1	2415.0
17.5°	2411.6	2413.3	2411.6	2409.0	2406.5	2403.1	2401.4	2396.3	2388.6	2381.8	2374.1
20°	2369.8	2372.4	2369.0	2364.7	2359.6	2358.7	2356.2	2347.7	2336.6	2326.3	2315.3
22.5°	2311.0	2309.3	2306.7	2305.0	2296.5	2291.4	2288.0	2276.9	2265.0	2251.3	2237.7
25°	2230.0	2233.4	2228.3	2220.6	2216.4	2211.3	2202.7	2190.8	2179.7	2165.2	2149.0
27.5°	2134.5	2134.5	2127.7	2125.2	2115.8	2109.0	2104.7	2092.8	2078.3	2063.8	2045.9
30°	2024.6	2019.5	2019.5	2007.5	1999.9	1997.3	1993.0	1973.4	1960.6	1945.3	1927.4
32.5°	1891.6	1890.7	1887.3	1879.7	1869.4	1860.9	1860.9	1847.3	1830.2	1811.5	1800.4
35°	1738.2	1739.0	1737.3	1728.8	1728.8	1718.5	1716.8	1704.9	1691.3	1676.8	1663.1
37.5°	1579.6	1583.0	1579.6	1575.3	1572.8	1571.9	1564.3	1555.7	1545.5	1537.0	1526.7
40°	1426.2	1421.0	1422.7	1414.2	1415.1	1413.4	1410.0	1398.9	1392.9	1384.4	1373.3
42.5°	1260.8	1265.9	1267.6	1262.5	1260.8	1257.4	1260.8	1256.5	1249.7	1245.4	1235.2
45°	1128.7	1123.5	1126.1	1124.4	1125.2	1118.4	1115.9	1114.2	1111.6	1103.9	1099.7
47.5°	997.4	998.2	997.4	994.0	992.3	992.3	988.8	983.7	983.7	978.6	975.2
50°	883.1	883.1	884.8	880.6	878.9	875.5	876.3	871.2	867.8	863.5	861.0
52.5°	778.3	779.1	775.7	776.6	774.9	774.9	771.5	768.1	764.7	757.0	755.3
55°	688.8	689.6	685.4	687.1	682.0	679.4	677.7	672.6	672.6	664.9	655.5
57.5°	605.2	604.4	603.5	601.0	597.6	595.0	592.5	586.5	583.9	578.8	571.1
60°	527.7	526.8	525.1	524.3	521.7	515.7	515.7	511.5	502.9	497.8	490.2
62.5°	454.4	454.4	453.5	450.9	448.4	445.8	444.1	440.7	432.2	426.2	419.4
65°	390.4	389.6	387.0	382.8	381.0	381.0	375.1	372.5	365.7	359.7	352.1
67.5°	329.0	325.6	323.9	324.8	319.7	319.7	314.6	310.3	304.3	294.1	288.1
70°	269.4	267.7	266.0	264.3	263.4	260.0	257.4	252.3	246.4	238.7	229.3
72.5°	215.7	215.7	213.1	211.4	208.9	205.4	203.7	199.5	192.7	184.1	177.3
75°	164.5	164.5	164.5	161.1	159.4	157.7	152.6	150.0	142.4	137.2	128.7
77.5°	121.0	119.3	116.8	115.9	114.2	112.5	110.0	105.7	98.9	92.9	87.8
80°	76.7	79.3	76.7	76.7	72.5	70.8	69.9	64.8	62.2	57.1	52.9
82.5°	42.6	43.5	41.8	40.9	38.4	37.5	37.5	34.1	32.4	29.0	26.4
85°	15.3	16.2	15.3	15.3	13.6	14.5	13.6	12.8	11.1	9.4	8.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1
2.5°	2538.6	2536.9	2536.9	2536.1	2535.2	2535.2	2535.2	2534.3	2532.6	2532.6	2531.8
5°	2525.8	2524.1	2521.6	2519.9	2519.0	2518.2	2517.3	2516.4	2513.0	2512.2	2509.6
7.5°	2502.8	2501.1	2496.8	2495.1	2492.6	2491.7	2488.3	2486.6	2483.2	2479.8	2478.1
10°	2475.5	2471.3	2467.9	2463.6	2461.9	2459.3	2455.1	2450.0	2447.4	2443.1	2439.7
12.5°	2444.8	2439.7	2432.9	2427.8	2426.1	2421.8	2415.0	2410.7	2404.8	2398.0	2392.0
15°	2406.5	2400.5	2394.5	2385.2	2382.6	2377.5	2370.7	2362.2	2353.6	2346.8	2340.0
17.5°	2364.7	2355.3	2346.0	2335.7	2328.1	2325.5	2314.4	2302.5	2294.8	2282.9	2275.2
20°	2305.9	2293.1	2277.8	2267.5	2260.7	2253.0	2240.3	2227.5	2218.1	2207.9	2196.8
22.5°	2224.9	2213.0	2195.1	2179.7	2174.6	2163.5	2152.4	2140.5	2128.6	2117.5	2103.9
25°	2129.4	2116.6	2098.7	2083.4	2074.9	2069.8	2048.4	2036.5	2024.6	2015.2	2005.8
27.5°	2031.4	2008.4	1996.4	1972.6	1964.9	1963.2	1943.6	1930.8	1918.0	1905.2	1893.3
30°	1910.4	1892.5	1874.5	1857.5	1847.3	1841.3	1826.8	1810.6	1802.1	1793.6	1781.6
32.5°	1785.0	1768.8	1746.7	1730.5	1722.8	1714.3	1701.5	1690.4	1677.6	1668.3	1665.7
35°	1651.2	1633.3	1614.5	1602.6	1600.9	1590.7	1577.9	1568.5	1559.1	1544.6	1542.1
37.5°	1508.0	1497.8	1485.0	1467.9	1460.3	1460.3	1447.5	1440.6	1428.7	1427.9	1421.0
40°	1367.3	1363.1	1343.5	1338.4	1336.6	1324.7	1321.3	1309.4	1300.8	1300.0	1289.8
42.5°	1228.4	1217.3	1213.9	1205.4	1197.7	1196.0	1188.3	1183.2	1179.8	1174.7	1169.6
45°	1090.3	1087.7	1079.2	1073.2	1070.7	1067.3	1064.7	1054.5	1052.8	1048.5	1046.0
47.5°	970.9	964.1	956.5	949.6	948.8	943.7	937.7	937.7	928.3	927.5	925.8
50°	852.5	847.3	843.1	833.7	835.4	828.6	827.7	820.1	815.8	812.4	816.7
52.5°	748.5	738.2	736.5	728.8	726.3	727.1	717.8	715.2	713.5	710.1	708.4
55°	649.6	644.5	637.6	632.5	628.3	624.0	620.6	620.6	611.2	612.1	607.8
57.5°	562.6	558.4	549.8	542.2	540.5	535.3	531.1	526.8	526.0	520.0	515.7
60°	485.0	477.4	466.3	462.9	457.8	453.5	449.2	444.1	441.6	437.3	429.6
62.5°	412.6	399.8	395.5	388.7	382.8	380.2	373.4	367.4	363.1	357.2	351.2
65°	343.5	334.2	326.5	318.8	318.0	311.1	305.2	300.1	291.5	286.4	275.3
67.5°	280.5	271.9	263.4	255.7	249.8	248.1	238.7	232.7	226.8	216.5	207.1
70°	222.5	214.0	207.1	197.8	195.2	188.4	181.6	175.6	165.4	156.0	148.3
72.5°	169.6	160.3	152.6	145.8	141.5	135.5	128.7	121.9	111.7	102.3	95.5
75°	121.0	114.2	106.6	99.7	96.3	92.9	85.2	77.6	70.8	61.4	55.4
77.5°	81.8	75.0	68.2	62.2	58.0	55.4	50.3	44.3	38.4	33.2	29.0
80°	47.7	43.5	38.4	33.2	32.4	29.8	25.6	22.2	18.8	16.2	12.8
82.5°	23.0	20.5	17.0	14.5	12.8	11.9	10.2	8.5	6.8	6.0	6.0
85°	6.8	6.0	5.1	4.3	3.4	3.4	2.6	2.6	2.6	2.6	2.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1
2.5°	2529.2	2528.4	2527.5	2526.7	2525.0	2525.0	2522.4	2520.7	2520.7	2519.0	2518.2
5°	2507.1	2504.5	2503.7	2502.0	2500.3	2499.4	2496.0	2495.1	2493.4	2491.7	2491.7
7.5°	2475.5	2472.1	2468.7	2467.0	2466.2	2463.6	2461.9	2461.0	2458.5	2456.8	2453.4
10°	2433.8	2431.2	2426.9	2425.2	2423.5	2421.8	2417.6	2415.0	2414.2	2412.4	2410.7
12.5°	2385.2	2381.8	2377.5	2374.1	2372.4	2369.8	2365.6	2363.0	2363.0	2359.6	2359.6
15°	2333.2	2328.1	2320.4	2317.0	2316.1	2311.0	2307.6	2304.2	2299.9	2298.2	2298.2
17.5°	2266.7	2258.2	2251.3	2251.3	2247.9	2242.8	2237.7	2235.1	2232.6	2229.2	2227.5
20°	2188.3	2182.3	2174.6	2174.6	2166.9	2165.2	2160.1	2159.3	2153.3	2154.2	2151.6
22.5°	2093.6	2090.2	2086.0	2082.5	2078.3	2073.2	2070.6	2071.5	2068.9	2068.1	2067.2
25°	1998.2	1988.8	1983.7	1982.0	1980.3	1976.0	1974.3	1973.4	1973.4	1970.9	1971.7
27.5°	1888.2	1881.4	1874.5	1877.1	1873.7	1871.1	1869.4	1866.9	1868.6	1867.7	1868.6
30°	1775.7	1767.1	1762.9	1764.6	1763.7	1756.9	1760.3	1759.5	1760.3	1760.3	1762.0
32.5°	1657.2	1651.2	1650.4	1651.2	1643.5	1644.4	1641.0	1646.1	1646.9	1652.1	1647.8
35°	1537.0	1533.6	1527.6	1526.7	1527.6	1526.7	1526.7	1530.2	1529.3	1534.4	1532.7
37.5°	1413.4	1411.7	1405.7	1407.4	1404.0	1410.0	1411.7	1410.0	1415.9	1414.2	1413.4
40°	1292.3	1289.8	1286.4	1293.2	1288.9	1285.5	1291.5	1286.4	1288.1	1293.2	1293.2
42.5°	1169.6	1165.3	1165.3	1165.3	1164.5	1164.5	1167.0	1169.6	1167.9	1168.7	1175.5
45°	1046.0	1045.1	1042.6	1044.3	1043.4	1047.7	1047.7	1049.4	1052.8	1056.2	1054.5
47.5°	926.6	924.9	927.5	925.8	926.6	924.1	925.8	930.9	935.1	929.2	935.1
50°	814.9	811.5	810.7	813.2	812.4	811.5	813.2	813.2	811.5	811.5	817.5
52.5°	708.4	705.0	702.4	706.7	704.1	705.0	701.6	701.6	703.3	701.6	699.0
55°	608.7	606.1	602.7	604.4	600.1	599.3	595.9	595.9	593.3	591.6	586.5
57.5°	513.2	511.5	503.8	502.9	503.8	497.8	491.9	489.3	482.5	480.8	479.9
60°	428.8	419.4	415.1	410.0	406.6	404.1	397.2	393.0	382.8	376.8	375.9
62.5°	341.0	336.7	331.6	323.9	322.2	313.7	306.9	295.8	290.7	283.0	275.3
65°	270.2	259.1	251.5	247.2	240.4	232.7	225.0	213.1	207.1	197.8	190.1
67.5°	197.8	188.4	178.2	174.8	168.8	159.4	151.7	141.5	136.4	127.9	125.3
70°	135.5	127.0	119.3	114.2	110.0	100.6	92.9	89.5	84.4	82.7	82.7
72.5°	87.0	79.3	70.8	68.2	64.8	59.7	54.6	52.9	54.6	53.7	53.7
75°	48.6	44.3	38.4	35.8	35.8	34.1	33.2	33.2	33.2	33.2	33.2
77.5°	24.7	22.2	20.5	19.6	19.6	19.6	20.5	20.5	20.5	21.3	20.5
80°	11.9	11.1	11.1	11.1	11.9	11.9	11.9	11.9	11.9	12.8	11.9
82.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.8	6.8	6.8	6.8	6.8
85°	2.6	2.6	2.6	2.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P684393

CATALOG NUMBER: LX6C50D010 EX6C509050 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1
2.5°	2517.3	2515.6	2515.6	2514.7	2514.7	2514.7	2514.7	2515.6
5°	2490.0	2489.2	2489.2	2487.5	2487.5	2487.5	2487.5	2487.5
7.5°	2453.4	2451.7	2452.5	2450.8	2450.8	2451.7	2450.8	2450.0
10°	2408.2	2407.3	2408.2	2408.2	2406.5	2405.6	2406.5	2407.3
12.5°	2357.0	2356.2	2354.5	2355.3	2355.3	2354.5	2353.6	2351.9
15°	2297.4	2296.5	2295.7	2294.8	2294.0	2294.8	2294.0	2292.3
17.5°	2227.5	2227.5	2226.6	2225.8	2224.9	2223.2	2224.1	2226.6
20°	2152.4	2151.6	2149.9	2150.7	2147.3	2145.6	2146.5	2149.0
22.5°	2066.4	2063.8	2065.5	2062.9	2062.9	2063.8	2062.9	2061.2
25°	1972.6	1969.2	1970.9	1971.7	1971.7	1970.9	1970.0	1970.9
27.5°	1868.6	1871.1	1871.1	1869.4	1872.0	1868.6	1870.3	1871.1
30°	1762.0	1759.5	1758.6	1762.0	1767.1	1762.9	1762.9	1763.7
32.5°	1652.1	1648.6	1648.6	1650.4	1649.5	1649.5	1652.9	1648.6
35°	1534.4	1536.1	1529.3	1533.6	1535.3	1533.6	1534.4	1534.4
37.5°	1415.9	1414.2	1414.2	1414.2	1416.8	1416.8	1418.5	1417.6
40°	1299.1	1295.7	1294.9	1296.6	1293.2	1295.7	1295.7	1293.2
42.5°	1173.0	1173.8	1178.1	1173.8	1174.7	1173.8	1172.1	1171.3
45°	1056.2	1058.7	1057.0	1056.2	1057.0	1053.6	1054.5	1057.0
47.5°	932.6	937.7	932.6	936.0	935.1	933.4	931.7	928.3
50°	816.7	818.4	817.5	816.7	815.8	814.9	810.7	808.1
52.5°	698.2	698.2	698.2	698.2	689.6	693.9	692.2	687.1
55°	582.2	584.8	581.4	581.4	575.4	575.4	573.7	574.6
57.5°	470.6	468.0	465.4	465.4	459.5	456.9	454.4	450.9
60°	366.6	364.0	360.6	356.3	350.4	350.4	348.7	341.8
62.5°	268.5	264.3	261.7	258.3	253.2	249.8	247.2	248.9
65°	184.1	179.9	176.5	176.5	176.5	174.8	173.9	173.9
67.5°	121.0	123.6	121.9	123.6	123.6	121.9	121.0	122.8
70°	83.5	83.5	82.7	82.7	82.7	82.7	81.8	82.7
72.5°	53.7	53.7	53.7	54.6	53.7	53.7	54.6	54.6
75°	34.1	34.1	34.1	35.0	34.1	34.1	35.0	34.1
77.5°	20.5	21.3	21.3	21.3	21.3	20.5	21.3	21.3
80°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)