

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: P563968

Luminaire Tested: **LX6C55D010 EX6C559030 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563968  
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: LX6C55D010 EX6C559030 6LBLWWH  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

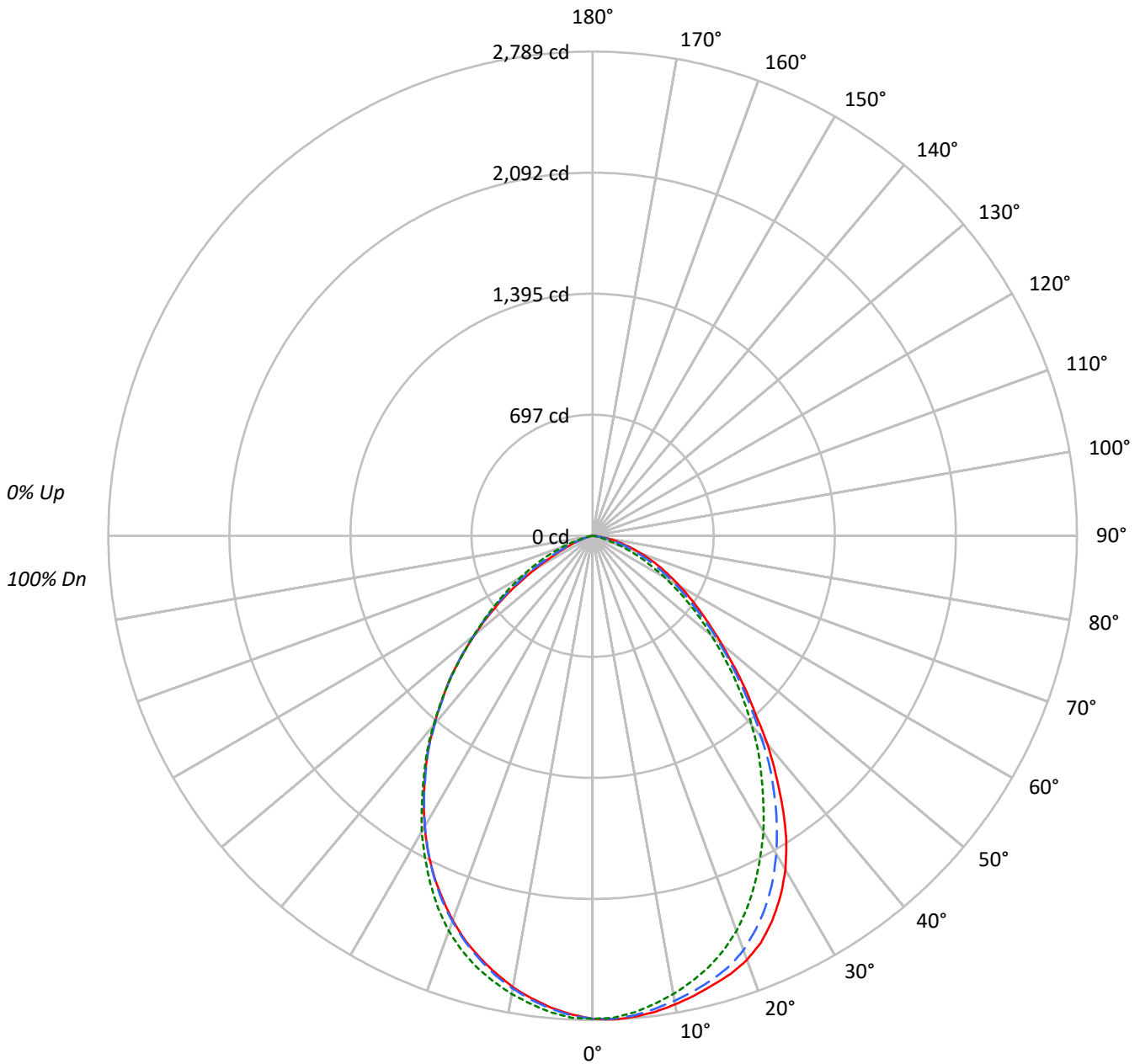
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5060.6 lumens  
Efficiency: N/A  
Efficacy: 79.2 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): 63.9  
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	42	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°	152515	152515	152515
5°	153043	151656	150165
10°	152575	149196	147008
15°	152004	146113	142714
20°	151668	141301	137539
25°	147976	133719	130780
30°	140598	124551	122475
35°	127609	113408	112652
40°	111967	102055	101526
45°	95987	89172	89901
50°	82624	76006	75605
55°	72217	64179	60242
60°	63471	52594	41115
65°	55557	40757	24737
70°	47364	27424	14538
75°	38232	14255	7922
80°	26550	5619	4420
85°	10567	1761	2390



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.7	5.2
10°-20°	728.0	14.4
20°-30°	1035.9	20.5
30°-40°	1090.3	21.5
40°-50°	908.6	18.0
50°-60°	613.9	12.1
60°-70°	311.2	6.2
70°-80°	100.5	2.0
80°-90°	11.5	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°	2024.5	40.0
0°-40°	3114.8	61.6
0°-60°	4637.3	91.6
0°-90°	5060.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5060.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2782	2782	2782	2782	2782	
5°	2781	2773	2756	2735	2729	264
15°	2678	2649	2574	2523	2515	757
25°	2446	2358	2211	2165	2162	1121
35°	1907	1825	1695	1678	1683	1187
45°	1238	1206	1150	1155	1160	958
55°	756	719	672	651	630	680
65°	428	386	314	227	191	426
75°	180	141	67	36	37	195
85°	17	9	3	4	4	29
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°	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1
2.5°	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2787.7	2787.7	2785.8	2785.8	2784.9
5°	2781.1	2782.1	2782.1	2781.1	2781.1	2779.3	2779.3	2778.4	2775.5	2773.7	2772.8
7.5°	2765.3	2765.3	2764.3	2763.4	2762.5	2759.7	2758.7	2755.9	2754.1	2752.1	2748.5
10°	2740.9	2740.9	2740.0	2738.2	2737.2	2735.4	2735.4	2731.6	2727.8	2723.1	2720.4
12.5°	2712.0	2712.9	2711.0	2710.1	2707.3	2706.4	2704.5	2699.9	2697.0	2691.4	2686.7
15°	2678.3	2680.2	2680.2	2676.5	2673.6	2672.7	2669.8	2667.1	2660.6	2654.9	2649.3
17.5°	2645.5	2647.5	2645.5	2642.8	2639.9	2636.2	2634.3	2628.7	2620.3	2612.9	2604.4
20°	2599.8	2602.6	2598.8	2594.2	2588.6	2587.6	2584.8	2575.4	2563.2	2552.1	2539.9
22.5°	2535.3	2533.3	2530.6	2528.7	2519.3	2513.7	2509.9	2497.8	2484.7	2469.8	2454.8
25°	2446.4	2450.1	2444.5	2436.1	2431.4	2425.8	2416.5	2403.3	2391.2	2375.4	2357.6
27.5°	2341.7	2341.7	2334.2	2331.3	2321.0	2313.6	2308.9	2295.8	2280.0	2264.0	2244.4
30°	2221.1	2215.4	2215.4	2202.3	2193.9	2191.0	2186.4	2164.9	2150.9	2134.1	2114.5
32.5°	2075.1	2074.2	2070.4	2062.1	2050.8	2041.4	2041.4	2026.5	2007.7	1987.2	1975.1
35°	1906.8	1907.8	1905.8	1896.5	1896.5	1885.3	1883.4	1870.3	1855.4	1839.5	1824.6
37.5°	1732.9	1736.6	1732.9	1728.2	1725.4	1724.5	1716.0	1706.7	1695.5	1686.1	1674.9
40°	1564.6	1559.0	1560.8	1551.4	1552.3	1550.5	1546.8	1534.6	1528.0	1518.7	1506.6
42.5°	1383.1	1388.7	1390.6	1385.0	1383.1	1379.3	1383.1	1378.4	1371.0	1366.3	1355.0
45°	1238.1	1232.5	1235.4	1233.5	1234.4	1226.9	1224.1	1222.3	1219.4	1211.1	1206.4
47.5°	1094.1	1095.1	1094.1	1090.4	1088.5	1088.5	1084.7	1079.1	1079.1	1073.6	1069.8
50°	968.8	968.8	970.7	966.0	964.2	960.4	961.4	955.8	952.0	947.3	944.5
52.5°	853.8	854.8	851.0	851.9	850.1	850.1	846.3	842.5	838.9	830.4	828.5
55°	755.6	756.6	751.9	753.7	748.2	745.3	743.5	737.9	737.9	729.4	719.2
57.5°	663.9	663.0	662.1	659.2	655.6	652.7	649.9	643.4	640.6	634.9	626.6
60°	578.9	578.0	576.0	575.1	572.3	565.8	565.8	561.1	551.7	546.1	537.7
62.5°	498.4	498.4	497.5	494.7	491.9	489.1	487.2	483.5	474.1	467.6	460.1
65°	428.3	427.3	424.6	419.9	418.0	418.0	411.5	408.7	401.2	394.7	386.2
67.5°	361.0	357.2	355.4	356.3	350.7	350.7	345.0	340.4	333.8	322.7	316.0
70°	295.5	293.7	291.7	289.9	289.0	285.2	282.4	276.8	270.3	261.8	251.6
72.5°	236.6	236.6	233.8	231.9	229.1	225.4	223.5	218.8	211.4	202.0	194.5
75°	180.5	180.5	180.5	176.8	174.9	173.0	167.4	164.6	156.1	150.5	141.2
77.5°	132.7	130.9	128.2	127.2	125.3	123.5	120.6	116.0	108.4	101.9	96.3
80°	84.1	87.0	84.1	84.1	79.4	77.6	76.7	71.1	68.3	62.7	58.0
82.5°	46.8	47.7	45.8	44.9	42.1	41.2	41.2	37.4	35.5	31.8	29.0
85°	16.8	17.8	16.8	16.8	15.0	15.9	15.0	14.0	12.2	10.3	9.4
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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1
2.5°	2784.9	2783.1	2783.1	2782.1	2781.1	2781.1	2781.1	2780.2	2778.4	2778.4	2777.5
5°	2770.9	2769.0	2766.2	2764.3	2763.4	2762.5	2761.5	2760.6	2756.8	2755.9	2753.2
7.5°	2745.6	2743.8	2739.1	2737.2	2734.4	2733.5	2729.8	2727.8	2724.2	2720.4	2718.6
10°	2715.7	2711.0	2707.3	2702.6	2700.8	2697.9	2693.2	2687.6	2684.9	2680.2	2676.5
12.5°	2682.1	2676.5	2668.9	2663.3	2661.5	2656.8	2649.3	2644.6	2638.1	2630.6	2624.1
15°	2639.9	2633.4	2626.9	2616.5	2613.8	2608.2	2600.7	2591.3	2582.0	2574.5	2567.0
17.5°	2594.2	2583.9	2573.6	2562.3	2553.9	2551.1	2538.9	2525.9	2517.5	2504.3	2495.9
20°	2529.6	2515.6	2498.8	2487.6	2480.0	2471.6	2457.7	2443.6	2433.2	2422.1	2410.0
22.5°	2440.8	2427.6	2408.0	2391.2	2385.6	2373.4	2361.3	2348.2	2335.1	2323.0	2308.0
25°	2336.0	2322.0	2302.3	2285.5	2276.2	2270.6	2247.2	2234.1	2221.1	2210.7	2200.4
27.5°	2228.5	2203.3	2190.1	2164.0	2155.5	2153.7	2132.2	2118.1	2104.1	2090.0	2077.0
30°	2095.7	2076.1	2056.5	2037.8	2026.5	2020.0	2004.1	1986.3	1976.9	1967.6	1954.4
32.5°	1958.2	1940.5	1916.1	1898.4	1890.0	1880.6	1866.6	1854.5	1840.4	1830.1	1827.3
35°	1811.4	1791.8	1771.1	1758.1	1756.2	1745.0	1731.0	1720.7	1710.4	1694.6	1691.7
37.5°	1654.3	1643.1	1629.0	1610.3	1601.9	1601.9	1588.0	1580.4	1567.3	1566.4	1559.0
40°	1500.0	1495.3	1473.8	1468.2	1466.3	1453.3	1449.5	1436.4	1427.0	1426.1	1414.9
42.5°	1347.6	1335.4	1331.7	1322.4	1313.9	1312.0	1303.6	1298.0	1294.3	1288.7	1283.0
45°	1196.0	1193.3	1183.9	1177.4	1174.6	1170.8	1168.1	1156.8	1154.9	1150.2	1147.4
47.5°	1065.1	1057.7	1049.2	1041.8	1040.8	1035.2	1028.7	1028.7	1018.4	1017.5	1015.6
50°	935.2	929.5	924.8	914.6	916.5	909.0	908.1	899.6	894.9	891.2	895.8
52.5°	821.1	809.9	808.0	799.5	796.8	797.7	787.4	784.6	782.7	779.0	777.1
55°	712.5	707.0	699.5	693.9	689.3	684.6	680.8	680.8	670.5	671.5	666.8
57.5°	617.2	612.6	603.2	594.8	592.9	587.3	582.7	578.0	577.0	570.4	565.8
60°	532.1	523.7	511.5	507.8	502.2	497.5	492.8	487.2	484.4	479.7	471.4
62.5°	452.7	438.6	433.9	426.4	419.9	417.1	409.6	403.0	398.3	391.8	385.3
65°	376.9	366.6	358.2	349.7	348.8	341.4	334.8	329.2	319.8	314.2	302.1
67.5°	307.7	298.3	289.0	280.5	274.0	272.1	261.8	255.3	248.7	237.5	227.2
70°	244.1	234.8	227.2	217.0	214.1	206.7	199.2	192.7	181.5	171.1	162.8
72.5°	186.1	175.8	167.4	159.9	155.2	148.7	141.2	133.8	122.5	112.2	104.8
75°	132.7	125.3	116.9	109.5	105.7	101.9	93.5	85.1	77.6	67.3	60.8
77.5°	89.8	82.3	74.8	68.3	63.6	60.8	55.1	48.6	42.1	36.5	31.8
80°	52.4	47.7	42.1	36.5	35.5	32.8	28.1	24.3	20.5	17.8	14.0
82.5°	25.2	22.5	18.7	15.9	14.0	13.1	11.2	9.4	7.5	6.5	6.5
85°	7.5	6.5	5.6	4.7	3.8	3.8	2.8	2.8	2.8	2.8	2.8
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°	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1
2.5°	2774.6	2773.7	2772.8	2771.9	2769.9	2769.9	2767.2	2765.3	2765.3	2763.4	2762.5
5°	2750.3	2747.6	2746.5	2744.7	2742.9	2741.9	2738.2	2737.2	2735.4	2733.5	2733.5
7.5°	2715.7	2712.0	2708.2	2706.4	2705.4	2702.6	2700.8	2699.9	2697.0	2695.2	2691.4
10°	2669.8	2667.1	2662.4	2660.6	2658.7	2656.8	2652.1	2649.3	2648.4	2646.6	2644.6
12.5°	2616.5	2612.9	2608.2	2604.4	2602.6	2599.8	2595.1	2592.2	2592.2	2588.6	2588.6
15°	2559.6	2553.9	2545.5	2541.8	2540.9	2535.3	2531.5	2527.7	2523.1	2521.2	2521.2
17.5°	2486.6	2477.3	2469.8	2469.8	2466.0	2460.4	2454.8	2452.0	2449.2	2445.5	2443.6
20°	2400.6	2394.0	2385.6	2385.6	2377.2	2375.4	2369.7	2368.8	2362.2	2363.2	2360.3
22.5°	2296.7	2293.0	2288.4	2284.6	2280.0	2274.4	2271.5	2272.4	2269.7	2268.7	2267.7
25°	2192.1	2181.7	2176.1	2174.3	2172.4	2167.8	2165.8	2164.9	2164.9	2162.1	2163.1
27.5°	2071.4	2063.9	2056.5	2059.2	2055.5	2052.7	2050.8	2048.0	2049.9	2048.9	2049.9
30°	1947.9	1938.6	1933.9	1935.8	1934.8	1927.4	1931.2	1930.1	1931.2	1931.2	1933.0
32.5°	1817.9	1811.4	1810.5	1811.4	1803.0	1803.9	1800.1	1805.8	1806.8	1812.3	1807.7
35°	1686.1	1682.3	1675.8	1674.9	1675.8	1674.9	1674.9	1678.6	1677.7	1683.3	1681.4
37.5°	1550.5	1548.6	1542.1	1543.9	1540.2	1546.8	1548.6	1546.8	1553.3	1551.4	1550.5
40°	1417.7	1414.9	1411.2	1418.7	1414.0	1410.2	1416.8	1411.2	1413.0	1418.7	1418.7
42.5°	1283.0	1278.4	1278.4	1278.4	1277.4	1277.4	1280.2	1283.0	1281.2	1282.1	1289.6
45°	1147.4	1146.5	1143.7	1145.6	1144.7	1149.3	1149.3	1151.2	1154.9	1158.7	1156.8
47.5°	1016.5	1014.7	1017.5	1015.6	1016.5	1013.7	1015.6	1021.2	1025.8	1019.3	1025.8
50°	894.0	890.3	889.3	892.2	891.2	890.3	892.2	892.2	890.3	890.3	896.9
52.5°	777.1	773.4	770.5	775.2	772.5	773.4	769.6	769.6	771.5	769.6	766.9
55°	667.7	664.9	661.2	663.0	658.3	657.4	653.7	653.7	650.9	649.0	643.4
57.5°	562.9	561.1	552.6	551.7	552.6	546.1	539.6	536.8	529.4	527.4	526.5
60°	470.4	460.1	455.4	449.8	446.0	443.3	435.8	431.1	419.9	413.4	412.4
62.5°	374.0	369.3	363.8	355.4	353.5	344.1	336.7	324.5	318.9	310.4	302.1
65°	296.4	284.3	275.9	271.2	263.8	255.3	246.9	233.8	227.2	217.0	208.5
67.5°	217.0	206.7	195.4	191.7	185.1	174.9	166.4	155.2	149.6	140.3	137.4
70°	148.7	139.4	130.9	125.3	120.6	110.4	101.9	98.2	92.6	90.7	90.7
72.5°	95.4	87.0	77.6	74.8	71.1	65.5	59.8	58.0	59.8	58.9	58.9
75°	53.3	48.6	42.1	39.3	39.3	37.4	36.5	36.5	36.5	36.5	36.5
77.5°	27.2	24.3	22.5	21.5	21.5	21.5	22.5	22.5	22.5	23.4	22.5
80°	13.1	12.2	12.2	12.2	13.1	13.1	13.1	13.1	13.1	14.0	13.1
82.5°	6.5	6.5	6.5	6.5	6.5	6.5	7.5	7.5	7.5	7.5	7.5
85°	2.8	2.8	2.8	2.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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: P563968

CATALOG NUMBER: LX6C55D010 EX6C559030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1	2782.1
2.5°	2761.5	2759.7	2759.7	2758.7	2758.7	2758.7	2758.7	2759.7
5°	2731.6	2730.7	2730.7	2728.8	2728.8	2728.8	2728.8	2728.8
7.5°	2691.4	2689.6	2690.5	2688.6	2688.6	2689.6	2688.6	2687.6
10°	2641.9	2640.9	2641.9	2641.9	2639.9	2639.0	2639.9	2640.9
12.5°	2585.7	2584.8	2582.9	2583.9	2583.9	2582.9	2582.0	2580.1
15°	2520.2	2519.3	2518.4	2517.5	2516.6	2517.5	2516.6	2514.6
17.5°	2443.6	2443.6	2442.6	2441.7	2440.8	2438.9	2439.9	2442.6
20°	2361.3	2360.3	2358.5	2359.4	2355.6	2353.8	2354.7	2357.6
22.5°	2266.8	2264.0	2265.9	2263.1	2263.1	2264.0	2263.1	2261.2
25°	2164.0	2160.2	2162.1	2163.1	2163.1	2162.1	2161.1	2162.1
27.5°	2049.9	2052.7	2052.7	2050.8	2053.6	2049.9	2051.8	2052.7
30°	1933.0	1930.1	1929.2	1933.0	1938.6	1933.9	1933.9	1934.8
32.5°	1812.3	1808.6	1808.6	1810.5	1809.5	1809.5	1813.3	1808.6
35°	1683.3	1685.2	1677.7	1682.3	1684.3	1682.3	1683.3	1683.3
37.5°	1553.3	1551.4	1551.4	1551.4	1554.3	1554.3	1556.1	1555.2
40°	1425.2	1421.4	1420.5	1422.4	1418.7	1421.4	1421.4	1418.7
42.5°	1286.8	1287.7	1292.4	1287.7	1288.7	1287.7	1285.8	1284.9
45°	1158.7	1161.4	1159.6	1158.7	1159.6	1155.8	1156.8	1159.6
47.5°	1023.1	1028.7	1023.1	1026.8	1025.8	1024.0	1022.2	1018.4
50°	895.8	897.8	896.9	895.8	894.9	894.0	889.3	886.5
52.5°	765.8	765.8	765.8	765.8	756.6	761.3	759.3	753.7
55°	638.7	641.5	637.8	637.8	631.3	631.3	629.3	630.3
57.5°	516.2	513.4	510.6	510.6	504.0	501.3	498.4	494.7
60°	402.1	399.4	395.6	390.9	384.4	384.4	382.5	375.0
62.5°	294.6	289.9	287.1	283.4	277.7	274.0	271.2	273.1
65°	202.0	197.3	193.6	193.6	193.6	191.7	190.7	190.7
67.5°	132.7	135.6	133.8	135.6	135.6	133.8	132.7	134.7
70°	91.6	91.6	90.7	90.7	90.7	90.7	89.8	90.7
72.5°	58.9	58.9	58.9	59.8	58.9	58.9	59.8	59.8
75°	37.4	37.4	37.4	38.3	37.4	37.4	38.3	37.4
77.5°	22.5	23.4	23.4	23.4	23.4	22.5	23.4	23.4
80°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
82.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)