

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: -

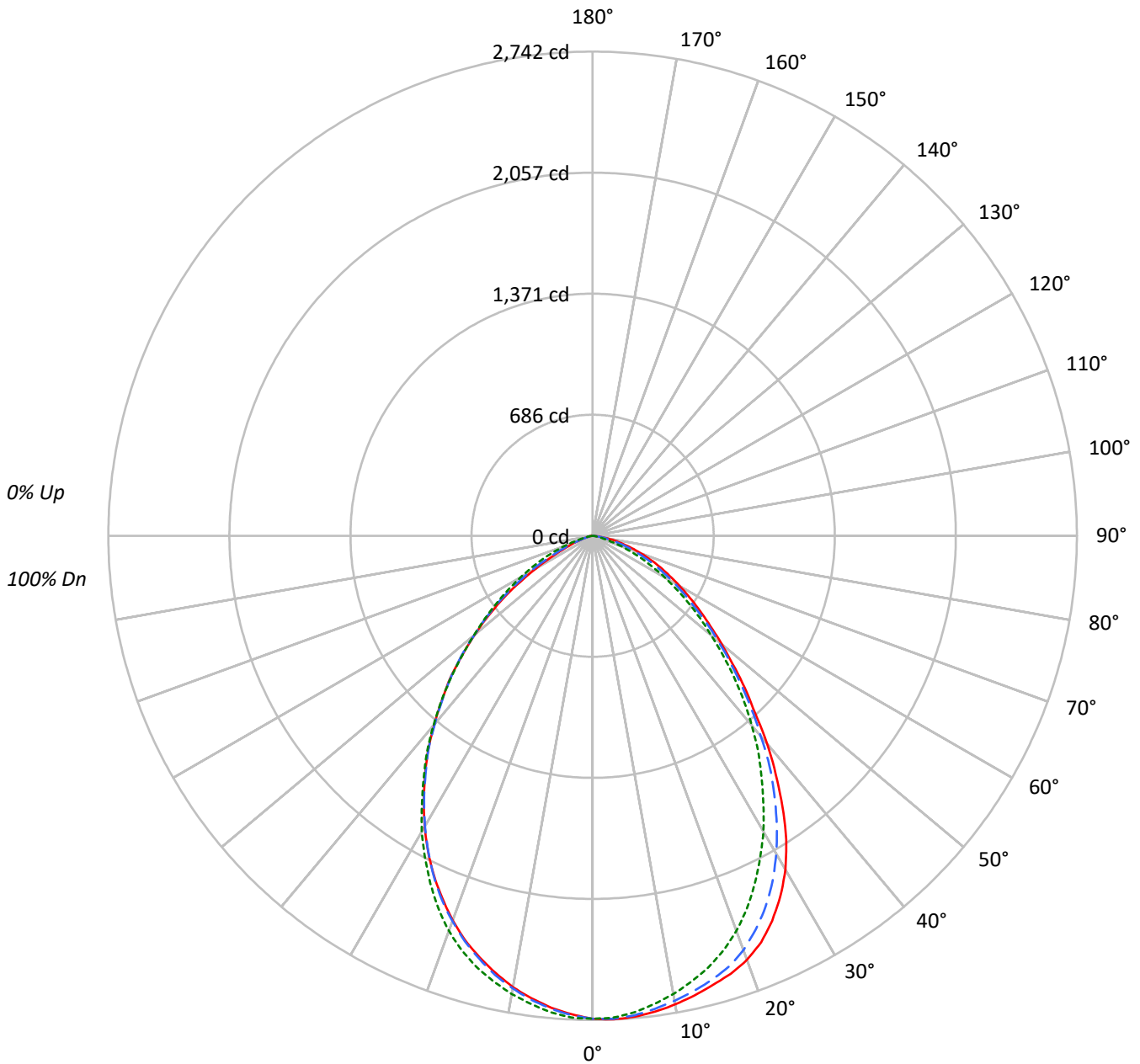
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4975.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 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					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	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°	149939	149939	149939
5°	150456	149092	147628
10°	149997	146674	144520
15°	149433	143644	140302
20°	149101	138910	135211
25°	145472	131457	128566
30°	138217	122443	120405
35°	125454	111487	110744
40°	110071	100331	99808
45°	94366	87668	88381
50°	81225	74718	74326
55°	70994	63090	59219
60°	62396	51706	40424
65°	54623	40069	24322
70°	46562	26960	14297
75°	37575	14022	7795
80°	26108	5525	4357
85°	10378	1761	2327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.3	5.2
10°-20°	715.6	14.4
20°-30°	1018.4	20.5
30°-40°	1071.9	21.5
40°-50°	893.3	18.0
50°-60°	603.5	12.1
60°-70°	306.0	6.2
70°-80°	98.8	2.0
80°-90°	11.3	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°	1990.3	40.0
0°-40°	3062.2	61.6
0°-60°	4558.9	91.6
0°-90°	4975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4975.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2735	2735	2735	2735	2735	
5°	2734	2726	2709	2689	2683	260
15°	2633	2604	2531	2480	2472	744
25°	2405	2318	2173	2128	2126	1102
35°	1875	1794	1666	1649	1655	1167
45°	1217	1186	1131	1135	1140	942
55°	743	707	660	640	620	669
65°	421	380	309	223	188	419
75°	177	139	66	36	37	192
85°	16	9	3	4	4	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°	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1
2.5°	2741.5	2741.5	2741.5	2741.5	2741.5	2741.5	2740.6	2740.6	2738.7	2738.7	2737.8
5°	2734.1	2735.1	2735.1	2734.1	2734.1	2732.3	2732.3	2731.4	2728.6	2726.8	2725.9
7.5°	2718.5	2718.5	2717.6	2716.7	2715.8	2713.0	2712.1	2709.3	2707.5	2705.6	2702.0
10°	2694.6	2694.6	2693.7	2691.9	2690.9	2689.1	2689.1	2685.4	2681.7	2677.1	2674.4
12.5°	2666.1	2667.0	2665.2	2664.3	2661.5	2660.6	2658.8	2654.2	2651.4	2645.9	2641.3
15°	2633.0	2634.9	2634.9	2631.2	2628.4	2627.5	2624.7	2622.0	2615.6	2610.0	2604.5
17.5°	2600.8	2602.7	2600.8	2598.1	2595.3	2591.6	2589.8	2584.3	2576.0	2568.7	2560.4
20°	2555.8	2558.6	2554.9	2550.3	2544.8	2543.8	2541.1	2531.9	2519.9	2508.9	2497.0
22.5°	2492.4	2490.5	2487.8	2485.9	2476.7	2471.2	2467.5	2455.6	2442.7	2428.0	2413.3
25°	2405.0	2408.7	2403.2	2394.9	2390.3	2384.8	2375.6	2362.7	2350.8	2335.2	2317.7
27.5°	2302.1	2302.1	2294.7	2291.9	2281.8	2274.5	2269.9	2257.0	2241.4	2225.7	2206.4
30°	2183.5	2177.9	2177.9	2165.1	2156.8	2154.0	2149.4	2128.3	2114.5	2098.0	2078.7
32.5°	2040.0	2039.1	2035.4	2027.2	2016.1	2006.9	2006.9	1992.2	1973.8	1953.6	1941.7
35°	1874.6	1875.5	1873.6	1864.4	1864.4	1853.4	1851.6	1838.7	1824.0	1808.4	1793.7
37.5°	1703.6	1707.2	1703.6	1699.0	1696.2	1695.3	1687.0	1677.8	1666.8	1657.6	1646.6
40°	1538.1	1532.6	1534.4	1525.2	1526.1	1524.3	1520.6	1508.7	1502.2	1493.0	1481.1
42.5°	1359.7	1365.2	1367.1	1361.6	1359.7	1356.0	1359.7	1355.1	1347.8	1343.2	1332.1
45°	1217.2	1211.7	1214.5	1212.6	1213.5	1206.2	1203.4	1201.6	1198.8	1190.6	1186.0
47.5°	1075.6	1076.6	1075.6	1072.0	1070.1	1070.1	1066.4	1060.9	1060.9	1055.4	1051.7
50°	952.4	952.4	954.3	949.7	947.9	944.2	945.1	939.6	935.9	931.3	928.5
52.5°	839.4	840.3	836.6	837.5	835.7	835.7	832.0	828.3	824.7	816.4	814.5
55°	742.8	743.8	739.2	741.0	735.5	732.7	730.9	725.4	725.4	717.1	707.0
57.5°	652.7	651.8	650.9	648.1	644.5	641.7	638.9	632.5	629.8	624.2	616.0
60°	569.1	568.2	566.3	565.4	562.6	556.2	556.2	551.6	542.4	536.9	528.6
62.5°	490.0	490.0	489.1	486.3	483.6	480.8	479.0	475.3	466.1	459.7	452.3
65°	421.1	420.1	417.4	412.8	410.9	410.9	404.5	401.8	394.4	388.0	379.7
67.5°	354.9	351.2	349.4	350.3	344.8	344.8	339.2	334.6	328.2	317.2	310.7
70°	290.5	288.7	286.8	285.0	284.1	280.4	277.6	272.1	265.7	257.4	247.3
72.5°	232.6	232.6	229.8	228.0	225.2	221.6	219.7	215.1	207.8	198.6	191.2
75°	177.4	177.4	177.4	173.8	171.9	170.1	164.6	161.8	153.5	148.0	138.8
77.5°	130.5	128.7	126.0	125.0	123.2	121.4	118.6	114.0	106.6	100.2	94.7
80°	82.7	85.5	82.7	82.7	78.1	76.3	75.4	69.9	67.1	61.6	57.0
82.5°	46.0	46.9	45.0	44.1	41.4	40.5	40.5	36.8	34.9	31.3	28.5
85°	16.5	17.5	16.5	16.5	14.7	15.6	14.7	13.8	12.0	10.1	9.2
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°	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1
2.5°	2737.8	2736.0	2736.0	2735.1	2734.1	2734.1	2734.1	2733.2	2731.4	2731.4	2730.5
5°	2724.0	2722.2	2719.4	2717.6	2716.7	2715.8	2714.8	2713.9	2710.2	2709.3	2706.6
7.5°	2699.2	2697.4	2692.8	2690.9	2688.2	2687.3	2683.6	2681.7	2678.1	2674.4	2672.6
10°	2669.8	2665.2	2661.5	2656.9	2655.1	2652.3	2647.7	2642.2	2639.5	2634.9	2631.2
12.5°	2636.7	2631.2	2623.8	2618.3	2616.5	2611.9	2604.5	2599.9	2593.5	2586.1	2579.7
15°	2595.3	2588.9	2582.5	2572.3	2569.6	2564.1	2556.7	2547.5	2538.3	2531.0	2523.6
17.5°	2550.3	2540.2	2530.1	2519.0	2510.7	2508.0	2496.0	2483.2	2474.9	2462.0	2453.7
20°	2486.8	2473.1	2456.5	2445.5	2438.1	2429.8	2416.1	2402.3	2392.1	2381.1	2369.2
22.5°	2399.5	2386.6	2367.3	2350.8	2345.3	2333.3	2321.4	2308.5	2295.6	2283.7	2269.0
25°	2296.5	2282.7	2263.4	2246.9	2237.7	2232.2	2209.2	2196.3	2183.5	2173.3	2163.2
27.5°	2190.8	2166.0	2153.1	2127.4	2119.1	2117.3	2096.1	2082.3	2068.5	2054.7	2041.9
30°	2060.3	2041.0	2021.7	2003.3	1992.2	1985.8	1970.2	1952.7	1943.5	1934.3	1921.4
32.5°	1925.1	1907.7	1883.7	1866.3	1858.0	1848.8	1835.0	1823.1	1809.3	1799.2	1796.4
35°	1780.8	1761.5	1741.2	1728.4	1726.5	1715.5	1701.7	1691.6	1681.5	1665.9	1663.1
37.5°	1626.3	1615.3	1601.5	1583.1	1574.8	1574.8	1561.1	1553.7	1540.8	1539.9	1532.6
40°	1474.6	1470.0	1448.9	1443.4	1441.5	1428.7	1425.0	1412.1	1402.9	1402.0	1391.0
42.5°	1324.8	1312.8	1309.2	1300.0	1291.7	1289.8	1281.6	1276.1	1272.4	1266.9	1261.3
45°	1175.8	1173.1	1163.9	1157.5	1154.7	1151.0	1148.3	1137.2	1135.4	1130.8	1128.0
47.5°	1047.1	1039.8	1031.5	1024.2	1023.2	1017.7	1011.3	1011.3	1001.2	1000.3	998.4
50°	919.4	913.8	909.2	899.1	901.0	893.6	892.7	884.4	879.8	876.1	880.7
52.5°	807.2	796.2	794.3	786.0	783.3	784.2	774.1	771.3	769.5	765.8	764.0
55°	700.5	695.0	687.7	682.2	677.6	673.0	669.3	669.3	659.2	660.1	655.5
57.5°	606.8	602.2	593.0	584.7	582.9	577.4	572.8	568.2	567.2	560.8	556.2
60°	523.1	514.8	502.9	499.2	493.7	489.1	484.5	479.0	476.2	471.6	463.4
62.5°	445.0	431.2	426.6	419.2	412.8	410.0	402.7	396.2	391.6	385.2	378.8
65°	370.5	360.4	352.1	343.8	342.9	335.6	329.1	323.6	314.4	308.9	297.0
67.5°	302.5	293.3	284.1	275.8	269.4	267.5	257.4	251.0	244.5	233.5	223.4
70°	240.0	230.8	223.4	213.3	210.5	203.2	195.8	189.4	178.4	168.2	160.0
72.5°	183.0	172.8	164.6	157.2	152.6	146.2	138.8	131.5	120.4	110.3	103.0
75°	130.5	123.2	114.9	107.6	103.9	100.2	91.9	83.7	76.3	66.2	59.8
77.5°	88.3	80.9	73.5	67.1	62.5	59.8	54.2	47.8	41.4	35.9	31.3
80°	51.5	46.9	41.4	35.9	34.9	32.2	27.6	23.9	20.2	17.5	13.8
82.5°	24.8	22.1	18.4	15.6	13.8	12.9	11.0	9.2	7.4	6.4	6.4
85°	7.4	6.4	5.5	4.6	3.7	3.7	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°	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1
2.5°	2727.7	2726.8	2725.9	2725.0	2723.1	2723.1	2720.4	2718.5	2718.5	2716.7	2715.8
5°	2703.8	2701.1	2700.1	2698.3	2696.5	2695.5	2691.9	2690.9	2689.1	2687.3	2687.3
7.5°	2669.8	2666.1	2662.4	2660.6	2659.7	2656.9	2655.1	2654.2	2651.4	2649.6	2645.9
10°	2624.7	2622.0	2617.4	2615.6	2613.7	2611.9	2607.3	2604.5	2603.6	2601.8	2599.9
12.5°	2572.3	2568.7	2564.1	2560.4	2558.6	2555.8	2551.2	2548.4	2548.4	2544.8	2544.8
15°	2516.3	2510.7	2502.5	2498.8	2497.9	2492.4	2488.7	2485.0	2480.4	2478.6	2478.6
17.5°	2444.6	2435.4	2428.0	2428.0	2424.3	2418.8	2413.3	2410.5	2407.8	2404.1	2402.3
20°	2360.0	2353.5	2345.3	2345.3	2337.0	2335.2	2329.6	2328.7	2322.3	2323.2	2320.4
22.5°	2257.9	2254.2	2249.7	2246.0	2241.4	2235.9	2233.1	2234.0	2231.3	2230.3	2229.4
25°	2155.0	2144.8	2139.3	2137.5	2135.7	2131.1	2129.2	2128.3	2128.3	2125.5	2126.5
27.5°	2036.4	2029.0	2021.7	2024.4	2020.7	2018.0	2016.1	2013.4	2015.2	2014.3	2015.2
30°	1915.0	1905.8	1901.2	1903.1	1902.1	1894.8	1898.5	1897.5	1898.5	1898.5	1900.3
32.5°	1787.2	1780.8	1779.9	1780.8	1772.5	1773.4	1769.7	1775.3	1776.2	1781.7	1777.1
35°	1657.6	1653.9	1647.5	1646.6	1647.5	1646.6	1646.6	1650.2	1649.3	1654.8	1653.0
37.5°	1524.3	1522.4	1516.0	1517.8	1514.2	1520.6	1522.4	1520.6	1527.0	1525.2	1524.3
40°	1393.7	1391.0	1387.3	1394.7	1390.1	1386.4	1392.8	1387.3	1389.1	1394.7	1394.7
42.5°	1261.3	1256.8	1256.8	1256.8	1255.8	1255.8	1258.6	1261.3	1259.5	1260.4	1267.8
45°	1128.0	1127.1	1124.4	1126.2	1125.3	1129.9	1129.9	1131.7	1135.4	1139.1	1137.2
47.5°	999.3	997.5	1000.3	998.4	999.3	996.6	998.4	1003.9	1008.5	1002.1	1008.5
50°	878.9	875.2	874.3	877.1	876.1	875.2	877.1	877.1	875.2	875.2	881.7
52.5°	764.0	760.3	757.5	762.1	759.4	760.3	756.6	756.6	758.5	756.6	753.9
55°	656.4	653.7	650.0	651.8	647.2	646.3	642.6	642.6	639.9	638.0	632.5
57.5°	553.4	551.6	543.3	542.4	543.3	536.9	530.5	527.7	520.4	518.5	517.6
60°	462.4	452.3	447.7	442.2	438.5	435.8	428.4	423.8	412.8	406.4	405.4
62.5°	367.7	363.1	357.6	349.4	347.5	338.3	331.0	319.0	313.5	305.2	297.0
65°	291.4	279.5	271.2	266.6	259.3	251.0	242.7	229.8	223.4	213.3	205.0
67.5°	213.3	203.2	192.1	188.5	182.0	171.9	163.6	152.6	147.1	137.9	135.1
70°	146.2	137.0	128.7	123.2	118.6	108.5	100.2	96.5	91.0	89.2	89.2
72.5°	93.8	85.5	76.3	73.5	69.9	64.4	58.8	57.0	58.8	57.9	57.9
75°	52.4	47.8	41.4	38.6	38.6	36.8	35.9	35.9	35.9	35.9	35.9
77.5°	26.7	23.9	22.1	21.1	21.1	21.1	22.1	22.1	22.1	23.0	22.1
80°	12.9	12.0	12.0	12.0	12.9	12.9	12.9	12.9	12.9	13.8	12.9
82.5°	6.4	6.4	6.4	6.4	6.4	6.4	7.4	7.4	7.4	7.4	7.4
85°	2.8	2.8	2.8	2.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1	2735.1
2.5°	2714.8	2713.0	2713.0	2712.1	2712.1	2712.1	2712.1	2713.0
5°	2685.4	2684.5	2684.5	2682.7	2682.7	2682.7	2682.7	2682.7
7.5°	2645.9	2644.1	2645.0	2643.1	2643.1	2644.1	2643.1	2642.2
10°	2597.2	2596.2	2597.2	2597.2	2595.3	2594.4	2595.3	2596.2
12.5°	2542.0	2541.1	2539.2	2540.2	2540.2	2539.2	2538.3	2536.5
15°	2477.6	2476.7	2475.8	2474.9	2474.0	2474.9	2474.0	2472.1
17.5°	2402.3	2402.3	2401.3	2400.4	2399.5	2397.7	2398.6	2401.3
20°	2321.4	2320.4	2318.6	2319.5	2315.8	2314.0	2314.9	2317.7
22.5°	2228.5	2225.7	2227.6	2224.8	2224.8	2225.7	2224.8	2223.0
25°	2127.4	2123.7	2125.5	2126.5	2126.5	2125.5	2124.6	2125.5
27.5°	2015.2	2018.0	2018.0	2016.1	2018.9	2015.2	2017.1	2018.0
30°	1900.3	1897.5	1896.6	1900.3	1905.8	1901.2	1901.2	1902.1
32.5°	1781.7	1778.0	1778.0	1779.9	1778.9	1778.9	1782.6	1778.0
35°	1654.8	1656.7	1649.3	1653.9	1655.8	1653.9	1654.8	1654.8
37.5°	1527.0	1525.2	1525.2	1525.2	1528.0	1528.0	1529.8	1528.9
40°	1401.1	1397.4	1396.5	1398.3	1394.7	1397.4	1397.4	1394.7
42.5°	1265.0	1265.9	1270.5	1265.9	1266.9	1265.9	1264.1	1263.2
45°	1139.1	1141.8	1140.0	1139.1	1140.0	1136.3	1137.2	1140.0
47.5°	1005.8	1011.3	1005.8	1009.4	1008.5	1006.7	1004.9	1001.2
50°	880.7	882.6	881.7	880.7	879.8	878.9	874.3	871.5
52.5°	752.9	752.9	752.9	752.9	743.8	748.4	746.5	741.0
55°	627.9	630.7	627.0	627.0	620.6	620.6	618.7	619.6
57.5°	507.5	504.7	502.0	502.0	495.5	492.8	490.0	486.3
60°	395.3	392.6	388.9	384.3	377.9	377.9	376.0	368.7
62.5°	289.6	285.0	282.2	278.6	273.0	269.4	266.6	268.5
65°	198.6	194.0	190.3	190.3	190.3	188.5	187.5	187.5
67.5°	130.5	133.3	131.5	133.3	133.3	131.5	130.5	132.4
70°	90.1	90.1	89.2	89.2	89.2	89.2	88.3	89.2
72.5°	57.9	57.9	57.9	58.8	57.9	57.9	58.8	58.8
75°	36.8	36.8	36.8	37.7	36.8	36.8	37.7	36.8
77.5°	22.1	23.0	23.0	23.0	23.0	22.1	23.0	23.0
80°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
82.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)