

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: P684425

Luminaire Tested: **LX6C55D010 EX6C559040 6LBLWWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684425  
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 EX6C559040 6LBLWWH  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

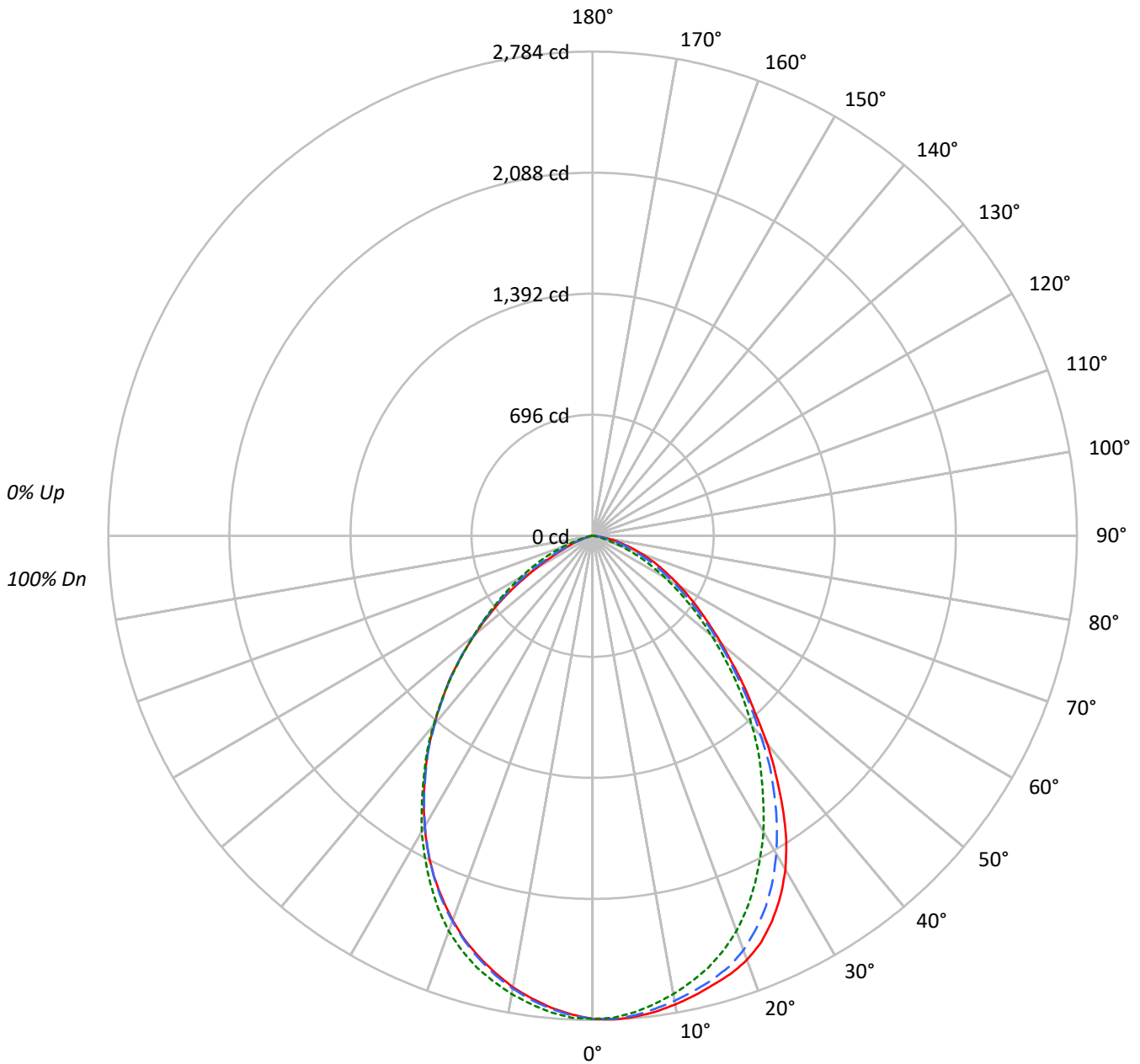
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5052.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 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°	152258	152258	152258
5°	152790	151403	149912
10°	152318	148940	146757
15°	151749	145863	142475
20°	151411	141062	137305
25°	147722	133496	130556
30°	140357	124342	122272
35°	127395	113207	112458
40°	111774	101884	101347
45°	95832	89025	89746
50°	82488	75878	75477
55°	72093	64065	60136
60°	63361	52507	41049
65°	55466	40692	24711
70°	47284	27376	14522
75°	38168	14234	7900
80°	26519	5588	4420
85°	10567	1761	2327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.2	5.2
10°-20°	726.7	14.4
20°-30°	1034.1	20.5
30°-40°	1088.4	21.5
40°-50°	907.1	18.0
50°-60°	612.8	12.1
60°-70°	310.7	6.2
70°-80°	100.3	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°	2021.1	40.0
0°-40°	3109.5	61.6
0°-60°	4629.5	91.6
0°-90°	5052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5052.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2777	2777	2777	2777	2777	
5°	2776	2768	2751	2731	2724	264
15°	2674	2645	2570	2519	2510	755
25°	2442	2354	2207	2161	2158	1119
35°	1904	1821	1692	1675	1680	1185
45°	1236	1204	1148	1153	1158	957
55°	754	718	670	650	629	679
65°	428	386	314	227	190	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°	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4
2.5°	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.0	2783.0	2781.1	2781.1	2780.2
5°	2776.5	2777.4	2777.4	2776.5	2776.5	2774.6	2774.6	2773.7	2770.9	2769.0	2768.1
7.5°	2760.6	2760.6	2759.7	2758.7	2757.8	2755.0	2754.1	2751.3	2749.4	2747.5	2743.8
10°	2736.3	2736.3	2735.4	2733.5	2732.6	2730.7	2730.7	2727.0	2723.3	2718.6	2715.8
12.5°	2707.4	2708.3	2706.4	2705.5	2702.7	2701.8	2699.9	2695.2	2692.4	2686.8	2682.2
15°	2673.8	2675.6	2675.6	2671.9	2669.1	2668.2	2665.4	2662.6	2656.0	2650.4	2644.8
17.5°	2641.1	2643.0	2641.1	2638.3	2635.5	2631.8	2629.9	2624.3	2615.9	2608.4	2600.0
20°	2595.4	2598.2	2594.4	2589.7	2584.1	2583.2	2580.4	2571.1	2558.9	2547.7	2535.6
22.5°	2530.9	2529.1	2526.3	2524.4	2515.1	2509.5	2505.7	2493.6	2480.5	2465.6	2450.6
25°	2442.2	2446.0	2440.4	2432.0	2427.3	2421.7	2412.4	2399.3	2387.2	2371.3	2353.6
27.5°	2337.7	2337.7	2330.2	2327.4	2317.1	2309.7	2305.0	2291.9	2276.1	2260.2	2240.6
30°	2217.3	2211.7	2211.7	2198.6	2190.2	2187.4	2182.7	2161.2	2147.2	2130.4	2110.8
32.5°	2071.6	2070.7	2066.9	2058.5	2047.3	2038.0	2038.0	2023.1	2004.4	1983.9	1971.7
35°	1903.6	1904.5	1902.6	1893.3	1893.3	1882.1	1880.2	1867.2	1852.2	1836.4	1821.4
37.5°	1729.9	1733.7	1729.9	1725.3	1722.5	1721.5	1713.1	1703.8	1692.6	1683.2	1672.0
40°	1561.9	1556.3	1558.1	1548.8	1549.7	1547.9	1544.1	1532.0	1525.5	1516.1	1504.0
42.5°	1380.8	1386.4	1388.2	1382.6	1380.8	1377.0	1380.8	1376.1	1368.6	1364.0	1352.8
45°	1236.1	1230.5	1233.3	1231.4	1232.3	1224.9	1222.1	1220.2	1217.4	1209.0	1204.3
47.5°	1092.3	1093.2	1092.3	1088.6	1086.7	1086.7	1083.0	1077.4	1077.4	1071.7	1068.0
50°	967.2	967.2	969.1	964.4	962.5	958.8	959.7	954.1	950.4	945.7	942.9
52.5°	852.4	853.3	849.6	850.5	848.6	848.6	844.9	841.2	837.4	829.0	827.2
55°	754.3	755.3	750.6	752.5	746.9	744.1	742.2	736.6	736.6	728.2	717.9
57.5°	662.8	661.9	661.0	658.2	654.4	651.6	648.8	642.3	639.5	633.9	625.5
60°	577.9	577.0	575.1	574.2	571.4	564.8	564.8	560.1	550.8	545.2	536.8
62.5°	497.6	497.6	496.7	493.9	491.1	488.3	486.4	482.7	473.3	466.8	459.3
65°	427.6	426.6	423.8	419.2	417.3	417.3	410.8	408.0	400.5	394.0	385.6
67.5°	360.4	356.6	354.8	355.7	350.1	350.1	344.5	339.8	333.3	322.1	315.5
70°	295.0	293.1	291.3	289.4	288.5	284.7	281.9	276.3	269.8	261.4	251.1
72.5°	236.2	236.2	233.4	231.5	228.7	225.0	223.1	218.5	211.0	201.7	194.2
75°	180.2	180.2	180.2	176.4	174.6	172.7	167.1	164.3	155.9	150.3	141.0
77.5°	132.6	130.7	127.9	127.0	125.1	123.2	120.4	115.8	108.3	101.8	96.2
80°	84.0	86.8	84.0	84.0	79.4	77.5	76.6	71.0	68.2	62.5	57.9
82.5°	46.7	47.6	45.7	44.8	42.0	41.1	41.1	37.3	35.5	31.7	28.9
85°	16.8	17.7	16.8	16.8	14.9	15.9	14.9	14.0	12.1	10.3	9.3
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°	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4
2.5°	2780.2	2778.3	2778.3	2777.4	2776.5	2776.5	2776.5	2775.5	2773.7	2773.7	2772.7
5°	2766.2	2764.3	2761.5	2759.7	2758.7	2757.8	2756.9	2755.9	2752.2	2751.3	2748.5
7.5°	2741.0	2739.1	2734.5	2732.6	2729.8	2728.9	2725.1	2723.3	2719.5	2715.8	2713.9
10°	2711.1	2706.4	2702.7	2698.0	2696.2	2693.4	2688.7	2683.1	2680.3	2675.6	2671.9
12.5°	2677.5	2671.9	2664.4	2658.8	2657.0	2652.3	2644.8	2640.2	2633.6	2626.2	2619.6
15°	2635.5	2629.0	2622.4	2612.2	2609.4	2603.8	2596.3	2586.9	2577.6	2570.1	2562.7
17.5°	2589.7	2579.5	2569.2	2558.0	2549.6	2546.8	2534.7	2521.6	2513.2	2500.1	2491.7
20°	2525.3	2511.3	2494.5	2483.3	2475.9	2467.5	2453.4	2439.4	2429.2	2418.0	2405.8
22.5°	2436.6	2423.6	2404.0	2387.2	2381.6	2369.4	2357.3	2344.2	2331.1	2319.0	2304.1
25°	2332.1	2318.1	2298.5	2281.7	2272.3	2266.7	2243.4	2230.3	2217.3	2207.0	2196.7
27.5°	2224.7	2199.5	2186.4	2160.3	2151.9	2150.0	2128.6	2114.6	2100.6	2086.6	2073.5
30°	2092.2	2072.5	2052.9	2034.3	2023.1	2016.5	2000.7	1982.9	1973.6	1964.3	1951.2
32.5°	1954.9	1937.2	1912.9	1895.2	1886.8	1877.4	1863.4	1851.3	1837.3	1827.0	1824.2
35°	1808.3	1788.7	1768.2	1755.1	1753.3	1742.1	1728.1	1717.8	1707.5	1691.6	1688.8
37.5°	1651.5	1640.3	1626.3	1607.6	1599.2	1599.2	1585.2	1577.7	1564.7	1563.7	1556.3
40°	1497.5	1492.8	1471.3	1465.7	1463.9	1450.8	1447.0	1434.0	1424.6	1423.7	1412.5
42.5°	1345.3	1333.2	1329.4	1320.1	1311.7	1309.8	1301.4	1295.8	1292.1	1286.5	1280.9
45°	1194.0	1191.2	1181.9	1175.4	1172.6	1168.8	1166.0	1154.8	1153.0	1148.3	1145.5
47.5°	1063.3	1055.9	1047.5	1040.0	1039.1	1033.5	1026.9	1026.9	1016.7	1015.7	1013.9
50°	933.6	928.0	923.3	913.0	914.9	907.4	906.5	898.1	893.4	889.7	894.4
52.5°	819.7	808.5	806.6	798.2	795.4	796.3	786.1	783.3	781.4	777.7	775.8
55°	711.4	705.8	698.3	692.7	688.0	683.4	679.6	679.6	669.4	670.3	665.6
57.5°	616.2	611.5	602.2	593.8	591.9	586.3	581.6	577.0	576.0	569.5	564.8
60°	531.2	522.8	510.7	506.9	501.3	496.7	492.0	486.4	483.6	478.9	470.5
62.5°	451.9	437.8	433.2	425.7	419.2	416.4	408.9	402.4	397.7	391.2	384.6
65°	376.2	366.0	357.6	349.2	348.2	340.8	334.2	328.6	319.3	313.7	301.5
67.5°	307.1	297.8	288.5	280.1	273.5	271.7	261.4	254.9	248.3	237.1	226.9
70°	243.7	234.3	226.9	216.6	213.8	206.3	198.9	192.3	181.1	170.8	162.4
72.5°	185.8	175.5	167.1	159.6	155.0	148.4	141.0	133.5	122.3	112.0	104.6
75°	132.6	125.1	116.7	109.2	105.5	101.8	93.4	85.0	77.5	67.2	60.7
77.5°	89.6	82.2	74.7	68.2	63.5	60.7	55.1	48.5	42.0	36.4	31.7
80°	52.3	47.6	42.0	36.4	35.5	32.7	28.0	24.3	20.5	17.7	14.0
82.5°	25.2	22.4	18.7	15.9	14.0	13.1	11.2	9.3	7.5	6.5	6.5
85°	7.5	6.5	5.6	4.7	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°	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4
2.5°	2769.9	2769.0	2768.1	2767.1	2765.3	2765.3	2762.5	2760.6	2760.6	2758.7	2757.8
5°	2745.7	2742.9	2741.9	2740.1	2738.2	2737.3	2733.5	2732.6	2730.7	2728.9	2728.9
7.5°	2711.1	2707.4	2703.6	2701.8	2700.8	2698.0	2696.2	2695.2	2692.4	2690.6	2686.8
10°	2665.4	2662.6	2657.9	2656.0	2654.2	2652.3	2647.6	2644.8	2643.9	2642.0	2640.2
12.5°	2612.2	2608.4	2603.8	2600.0	2598.2	2595.4	2590.7	2587.9	2587.9	2584.1	2584.1
15°	2555.2	2549.6	2541.2	2537.5	2536.5	2530.9	2527.2	2523.5	2518.8	2516.9	2516.9
17.5°	2482.4	2473.1	2465.6	2465.6	2461.8	2456.2	2450.6	2447.8	2445.0	2441.3	2439.4
20°	2396.5	2390.0	2381.6	2381.6	2373.2	2371.3	2365.7	2364.8	2358.2	2359.2	2356.4
22.5°	2292.9	2289.1	2284.5	2280.7	2276.1	2270.5	2267.7	2268.6	2265.8	2264.9	2263.9
25°	2188.3	2178.0	2172.4	2170.6	2168.7	2164.0	2162.2	2161.2	2161.2	2158.4	2159.4
27.5°	2067.9	2060.4	2052.9	2055.7	2052.0	2049.2	2047.3	2044.5	2046.4	2045.5	2046.4
30°	1944.6	1935.3	1930.6	1932.5	1931.6	1924.1	1927.8	1926.9	1927.8	1927.8	1929.7
32.5°	1814.9	1808.3	1807.4	1808.3	1799.9	1800.9	1797.1	1802.7	1803.7	1809.3	1804.6
35°	1683.2	1679.5	1673.0	1672.0	1673.0	1672.0	1672.0	1675.8	1674.8	1680.4	1678.6
37.5°	1547.9	1546.0	1539.5	1541.3	1537.6	1544.1	1546.0	1544.1	1550.7	1548.8	1547.9
40°	1415.3	1412.5	1408.8	1416.2	1411.6	1407.8	1414.4	1408.8	1410.6	1416.2	1416.2
42.5°	1280.9	1276.2	1276.2	1276.2	1275.3	1275.3	1278.1	1280.9	1279.0	1279.9	1287.4
45°	1145.5	1144.6	1141.8	1143.6	1142.7	1147.4	1147.4	1149.2	1153.0	1156.7	1154.8
47.5°	1014.8	1012.9	1015.7	1013.9	1014.8	1012.0	1013.9	1019.5	1024.1	1017.6	1024.1
50°	892.5	888.8	887.8	890.6	889.7	888.8	890.6	890.6	888.8	888.8	895.3
52.5°	775.8	772.1	769.3	773.9	771.1	772.1	768.3	768.3	770.2	768.3	765.5
55°	666.6	663.8	660.0	661.9	657.2	656.3	652.6	652.6	649.8	647.9	642.3
57.5°	562.0	560.1	551.7	550.8	551.7	545.2	538.7	535.9	528.4	526.5	525.6
60°	469.6	459.3	454.7	449.1	445.3	442.5	435.0	430.4	419.2	412.6	411.7
62.5°	373.4	368.8	363.2	354.8	352.9	343.6	336.1	324.0	318.4	309.9	301.5
65°	295.9	283.8	275.4	270.7	263.3	254.9	246.5	233.4	226.9	216.6	208.2
67.5°	216.6	206.3	195.1	191.4	184.8	174.6	166.2	155.0	149.4	140.0	137.2
70°	148.4	139.1	130.7	125.1	120.4	110.2	101.8	98.0	92.4	90.6	90.6
72.5°	95.2	86.8	77.5	74.7	71.0	65.4	59.7	57.9	59.7	58.8	58.8
75°	53.2	48.5	42.0	39.2	39.2	37.3	36.4	36.4	36.4	36.4	36.4
77.5°	27.1	24.3	22.4	21.5	21.5	21.5	22.4	22.4	22.4	23.3	22.4
80°	13.1	12.1	12.1	12.1	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	3.7	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: P684425

CATALOG NUMBER: LX6C55D010 EX6C559040 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4
2.5°	2756.9	2755.0	2755.0	2754.1	2754.1	2754.1	2754.1	2755.0
5°	2727.0	2726.1	2726.1	2724.2	2724.2	2724.2	2724.2	2724.2
7.5°	2686.8	2685.0	2685.9	2684.0	2684.0	2685.0	2684.0	2683.1
10°	2637.4	2636.4	2637.4	2637.4	2635.5	2634.6	2635.5	2636.4
12.5°	2581.3	2580.4	2578.5	2579.5	2579.5	2578.5	2577.6	2575.7
15°	2516.0	2515.1	2514.1	2513.2	2512.3	2513.2	2512.3	2510.4
17.5°	2439.4	2439.4	2438.5	2437.6	2436.6	2434.8	2435.7	2438.5
20°	2357.3	2356.4	2354.5	2355.4	2351.7	2349.8	2350.8	2353.6
22.5°	2263.0	2260.2	2262.1	2259.3	2259.3	2260.2	2259.3	2257.4
25°	2160.3	2156.6	2158.4	2159.4	2159.4	2158.4	2157.5	2158.4
27.5°	2046.4	2049.2	2049.2	2047.3	2050.1	2046.4	2048.3	2049.2
30°	1929.7	1926.9	1926.0	1929.7	1935.3	1930.6	1930.6	1931.6
32.5°	1809.3	1805.5	1805.5	1807.4	1806.5	1806.5	1810.2	1805.5
35°	1680.4	1682.3	1674.8	1679.5	1681.4	1679.5	1680.4	1680.4
37.5°	1550.7	1548.8	1548.8	1548.8	1551.6	1551.6	1553.5	1552.5
40°	1422.8	1419.0	1418.1	1420.0	1416.2	1419.0	1419.0	1416.2
42.5°	1284.6	1285.5	1290.2	1285.5	1286.5	1285.5	1283.7	1282.7
45°	1156.7	1159.5	1157.6	1156.7	1157.6	1153.9	1154.8	1157.6
47.5°	1021.3	1026.9	1021.3	1025.1	1024.1	1022.3	1020.4	1016.7
50°	894.4	896.2	895.3	894.4	893.4	892.5	887.8	885.0
52.5°	764.6	764.6	764.6	764.6	755.3	759.9	758.1	752.5
55°	637.6	640.4	636.7	636.7	630.2	630.2	628.3	629.2
57.5°	515.3	512.5	509.7	509.7	503.2	500.4	497.6	493.9
60°	401.4	398.6	394.9	390.2	383.7	383.7	381.8	374.4
62.5°	294.1	289.4	286.6	282.9	277.3	273.5	270.7	272.6
65°	201.7	197.0	193.3	193.3	193.3	191.4	190.5	190.5
67.5°	132.6	135.4	133.5	135.4	135.4	133.5	132.6	134.4
70°	91.5	91.5	90.6	90.6	90.6	90.6	89.6	90.6
72.5°	58.8	58.8	58.8	59.7	58.8	58.8	59.7	59.7
75°	37.3	37.3	37.3	38.3	37.3	37.3	38.3	37.3
77.5°	22.4	23.3	23.3	23.3	23.3	22.4	23.3	23.3
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°	3.7	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)