

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: P684404

Luminaire Tested: **LX6C55D010 EX6C559027 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684404  
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 EX6C559027 6LBLWWH  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

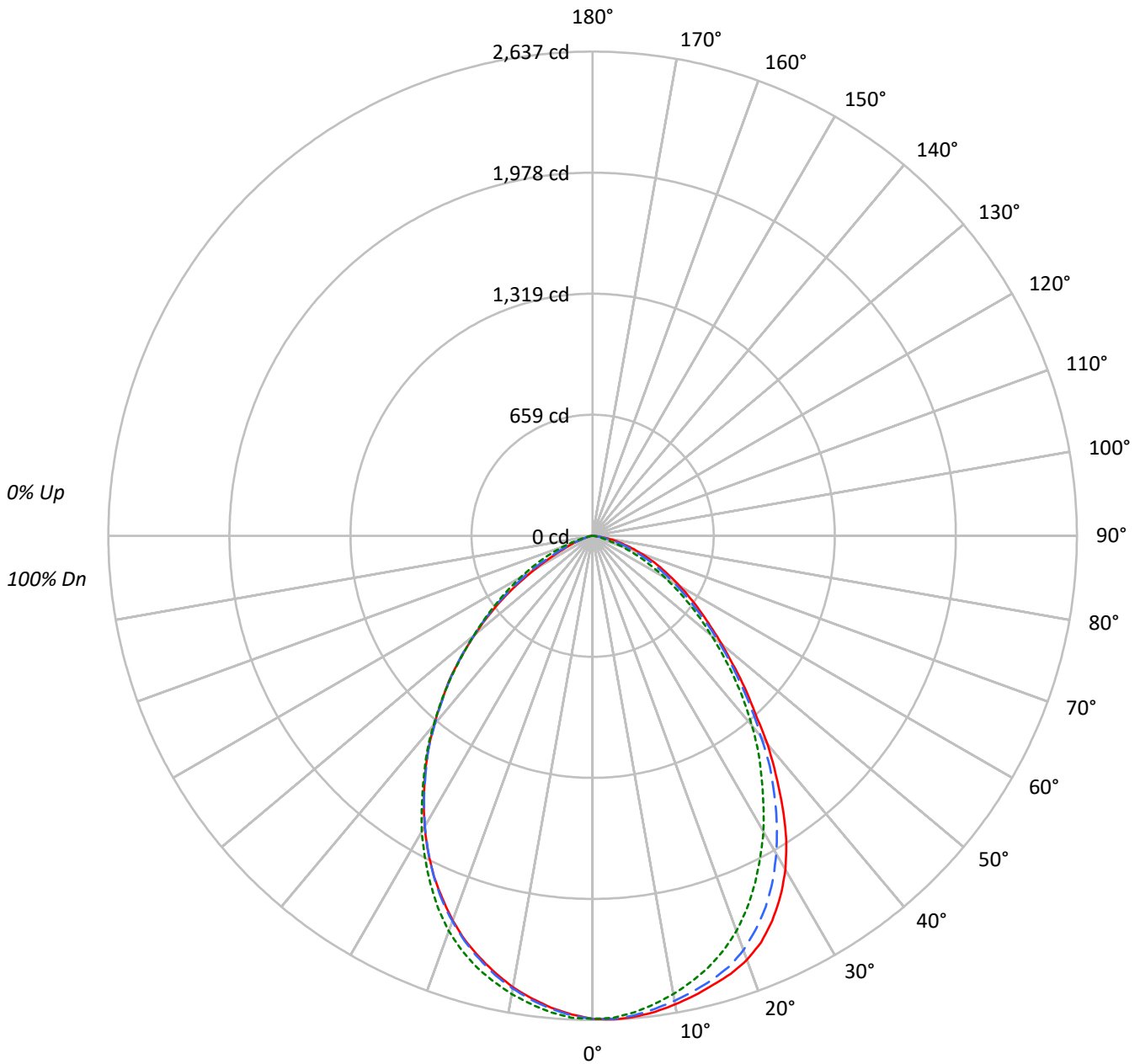
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4785.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 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									
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°	144210	144210	144210
5°	144711	143402	141987
10°	144269	141068	139003
15°	143730	138156	134944
20°	143407	133607	130048
25°	139919	126437	123660
30°	132938	117765	115809
35°	120662	107224	106515
40°	105863	96502	95994
45°	90761	84319	85009
50°	78130	71870	71494
55°	68289	60681	56963
60°	60006	49733	38878
65°	52535	38538	23401
70°	44783	25934	13752
75°	36156	13492	7498
80°	25129	5304	4199
85°	10001	1698	2201



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.5	5.2
10°-20°	688.3	14.4
20°-30°	979.5	20.5
30°-40°	1030.9	21.5
40°-50°	859.1	18.0
50°-60°	580.4	12.1
60°-70°	294.3	6.2
70°-80°	95.0	2.0
80°-90°	10.9	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°	1914.3	40.0
0°-40°	2945.2	61.6
0°-60°	4384.8	91.6
0°-90°	4785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4785.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2631	2631	2631	2631	2631	
5°	2630	2622	2606	2586	2580	250
15°	2532	2505	2434	2386	2378	716
25°	2313	2229	2090	2047	2044	1060
35°	1803	1725	1602	1586	1592	1122
45°	1171	1141	1088	1092	1096	906
55°	714	680	635	615	596	643
65°	405	365	297	215	180	403
75°	171	134	64	34	35	184
85°	16	9	3	4	4	27
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°	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6
2.5°	2636.8	2636.8	2636.8	2636.8	2636.8	2636.8	2635.9	2635.9	2634.1	2634.1	2633.3
5°	2629.7	2630.6	2630.6	2629.7	2629.7	2628.0	2628.0	2627.1	2624.4	2622.7	2621.8
7.5°	2614.7	2614.7	2613.8	2612.9	2612.0	2609.4	2608.5	2605.9	2604.1	2602.3	2598.8
10°	2591.7	2591.7	2590.8	2589.1	2588.2	2586.4	2586.4	2582.9	2579.3	2574.9	2572.3
12.5°	2564.3	2565.2	2563.4	2562.5	2559.9	2559.0	2557.2	2552.8	2550.1	2544.8	2540.4
15°	2532.5	2534.2	2534.2	2530.7	2528.0	2527.2	2524.5	2521.9	2515.7	2510.4	2505.1
17.5°	2501.5	2503.3	2501.5	2498.9	2496.2	2492.7	2490.9	2485.6	2477.6	2470.6	2462.6
20°	2458.2	2460.8	2457.3	2452.9	2447.6	2446.7	2444.0	2435.2	2423.7	2413.1	2401.6
22.5°	2397.2	2395.4	2392.8	2391.0	2382.1	2376.8	2373.3	2361.8	2349.4	2335.3	2321.1
25°	2313.2	2316.7	2311.4	2303.4	2299.0	2293.7	2284.9	2272.5	2261.0	2246.0	2229.2
27.5°	2214.1	2214.1	2207.1	2204.4	2194.7	2187.6	2183.2	2170.8	2155.8	2140.7	2122.2
30°	2100.1	2094.8	2094.8	2082.4	2074.4	2071.8	2067.4	2047.0	2033.8	2017.8	1999.3
32.5°	1962.1	1961.2	1957.7	1949.7	1939.1	1930.3	1930.3	1916.1	1898.5	1879.0	1867.5
35°	1803.0	1803.8	1802.1	1793.2	1793.2	1782.6	1780.9	1768.5	1754.3	1739.3	1725.2
37.5°	1638.5	1642.0	1638.5	1634.1	1631.4	1630.5	1622.6	1613.7	1603.1	1594.3	1583.7
40°	1479.3	1474.0	1475.8	1467.0	1467.8	1466.1	1462.5	1451.0	1444.8	1436.0	1424.5
42.5°	1307.8	1313.1	1314.9	1309.6	1307.8	1304.3	1307.8	1303.4	1296.3	1291.9	1281.3
45°	1170.7	1165.4	1168.1	1166.3	1167.2	1160.1	1157.5	1155.7	1153.0	1145.1	1140.7
47.5°	1034.6	1035.4	1034.6	1031.0	1029.3	1029.3	1025.7	1020.4	1020.4	1015.1	1011.6
50°	916.1	916.1	917.8	913.4	911.7	908.1	909.0	903.7	900.2	895.7	893.1
52.5°	807.3	808.2	804.7	805.5	803.8	803.8	800.2	796.7	793.2	785.2	783.4
55°	714.5	715.3	710.9	712.7	707.4	704.7	703.0	697.7	697.7	689.7	680.0
57.5°	627.8	626.9	626.0	623.4	619.9	617.2	614.5	608.4	605.7	600.4	592.4
60°	547.3	546.5	544.7	543.8	541.2	535.0	535.0	530.5	521.7	516.4	508.4
62.5°	471.3	471.3	470.4	467.8	465.1	462.5	460.7	457.2	448.3	442.1	435.0
65°	405.0	404.1	401.4	397.0	395.3	395.3	389.1	386.4	379.3	373.1	365.2
67.5°	341.3	337.8	336.0	336.9	331.6	331.6	326.3	321.9	315.7	305.1	298.9
70°	279.4	277.7	275.9	274.1	273.2	269.7	267.0	261.7	255.5	247.6	237.9
72.5°	223.7	223.7	221.1	219.3	216.6	213.1	211.3	206.9	199.8	191.0	183.9
75°	170.7	170.7	170.7	167.1	165.4	163.6	158.3	155.6	147.7	142.4	133.5
77.5°	125.6	123.8	121.1	120.3	118.5	116.7	114.1	109.6	102.6	96.4	91.1
80°	79.6	82.2	79.6	79.6	75.2	73.4	72.5	67.2	64.5	59.2	54.8
82.5°	44.2	45.1	43.3	42.4	39.8	38.9	38.9	35.4	33.6	30.1	27.4
85°	15.9	16.8	15.9	15.9	14.1	15.0	14.1	13.3	11.5	9.7	8.8
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6
2.5°	2633.3	2631.5	2631.5	2630.6	2629.7	2629.7	2629.7	2628.8	2627.1	2627.1	2626.2
5°	2620.0	2618.2	2615.6	2613.8	2612.9	2612.0	2611.2	2610.3	2606.7	2605.9	2603.2
7.5°	2596.1	2594.4	2589.9	2588.2	2585.5	2584.6	2581.1	2579.3	2575.8	2572.3	2570.5
10°	2567.8	2563.4	2559.9	2555.5	2553.7	2551.0	2546.6	2541.3	2538.7	2534.2	2530.7
12.5°	2536.0	2530.7	2523.6	2518.3	2516.5	2512.1	2505.1	2500.6	2494.4	2487.4	2481.2
15°	2496.2	2490.0	2483.8	2474.1	2471.4	2466.1	2459.1	2450.2	2441.4	2434.3	2427.2
17.5°	2452.9	2443.2	2433.4	2422.8	2414.9	2412.2	2400.7	2388.3	2380.4	2368.0	2360.0
20°	2391.9	2378.6	2362.7	2352.1	2345.0	2337.0	2323.8	2310.5	2300.8	2290.2	2278.7
22.5°	2307.9	2295.5	2276.9	2261.0	2255.7	2244.2	2232.7	2220.3	2207.9	2196.5	2182.3
25°	2208.8	2195.6	2177.0	2161.1	2152.2	2146.9	2124.8	2112.4	2100.1	2090.3	2080.6
27.5°	2107.1	2083.3	2070.9	2046.1	2038.2	2036.4	2016.1	2002.8	1989.5	1976.3	1963.9
30°	1981.6	1963.0	1944.4	1926.8	1916.1	1910.0	1894.9	1878.1	1869.3	1860.4	1848.1
32.5°	1851.6	1834.8	1811.8	1795.0	1787.0	1778.2	1764.9	1753.4	1740.2	1730.5	1727.8
35°	1712.8	1694.2	1674.7	1662.4	1660.6	1650.0	1636.7	1627.0	1617.3	1602.2	1599.6
37.5°	1564.2	1553.6	1540.3	1522.7	1514.7	1514.7	1501.4	1494.4	1482.0	1481.1	1474.0
40°	1418.3	1413.9	1393.6	1388.3	1386.5	1374.1	1370.6	1358.2	1349.3	1348.5	1337.9
42.5°	1274.2	1262.7	1259.2	1250.3	1242.4	1240.6	1232.6	1227.3	1223.8	1218.5	1213.2
45°	1130.9	1128.3	1119.4	1113.3	1110.6	1107.1	1104.4	1093.8	1092.0	1087.6	1085.0
47.5°	1007.1	1000.1	992.1	985.0	984.2	978.9	972.7	972.7	962.9	962.1	960.3
50°	884.2	878.9	874.5	864.8	866.6	859.5	858.6	850.6	846.2	842.7	847.1
52.5°	776.4	765.8	764.0	756.0	753.4	754.3	744.5	741.9	740.1	736.6	734.8
55°	673.8	668.5	661.4	656.1	651.7	647.3	643.7	643.7	634.0	634.9	630.5
57.5°	583.6	579.2	570.3	562.4	560.6	555.3	550.9	546.5	545.6	539.4	535.0
60°	503.1	495.2	483.7	480.1	474.8	470.4	466.0	460.7	458.0	453.6	445.7
62.5°	428.0	414.7	410.3	403.2	397.0	394.4	387.3	381.1	376.7	370.5	364.3
65°	356.3	346.6	338.7	330.7	329.8	322.7	316.6	311.3	302.4	297.1	285.6
67.5°	290.9	282.1	273.2	265.3	259.1	257.3	247.6	241.4	235.2	224.6	214.9
70°	230.8	221.9	214.9	205.1	202.5	195.4	188.3	182.2	171.5	161.8	153.9
72.5°	176.0	166.2	158.3	151.2	146.8	140.6	133.5	126.4	115.8	106.1	99.0
75°	125.6	118.5	110.5	103.5	99.9	96.4	88.4	80.5	73.4	63.7	57.5
77.5°	84.9	77.8	70.7	64.5	60.1	57.5	52.2	46.0	39.8	34.5	30.1
80°	49.5	45.1	39.8	34.5	33.6	30.9	26.5	23.0	19.5	16.8	13.3
82.5°	23.9	21.2	17.7	15.0	13.3	12.4	10.6	8.8	7.1	6.2	6.2
85°	7.1	6.2	5.3	4.4	3.5	3.5	2.7	2.7	2.7	2.7	2.7
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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6
2.5°	2623.5	2622.7	2621.8	2620.9	2619.1	2619.1	2616.5	2614.7	2614.7	2612.9	2612.0
5°	2600.5	2597.9	2597.0	2595.2	2593.5	2592.6	2589.1	2588.2	2586.4	2584.6	2584.6
7.5°	2567.8	2564.3	2560.8	2559.0	2558.1	2555.5	2553.7	2552.8	2550.1	2548.4	2544.8
10°	2524.5	2521.9	2517.4	2515.7	2513.9	2512.1	2507.7	2505.1	2504.2	2502.4	2500.6
12.5°	2474.1	2470.6	2466.1	2462.6	2460.8	2458.2	2453.8	2451.1	2451.1	2447.6	2447.6
15°	2420.2	2414.9	2406.9	2403.4	2402.5	2397.2	2393.6	2390.1	2385.7	2383.9	2383.9
17.5°	2351.2	2342.4	2335.3	2335.3	2331.7	2326.4	2321.1	2318.5	2315.8	2312.3	2310.5
20°	2269.8	2263.7	2255.7	2255.7	2247.7	2246.0	2240.7	2239.8	2233.6	2234.5	2231.8
22.5°	2171.7	2168.2	2163.7	2160.2	2155.8	2150.5	2147.8	2148.7	2146.0	2145.2	2144.3
25°	2072.7	2062.9	2057.6	2055.9	2054.1	2049.7	2047.9	2047.0	2047.0	2044.4	2045.2
27.5°	1958.6	1951.5	1944.4	1947.1	1943.6	1940.9	1939.1	1936.5	1938.3	1937.4	1938.3
30°	1841.9	1833.0	1828.6	1830.4	1829.5	1822.4	1826.0	1825.1	1826.0	1826.0	1827.7
32.5°	1719.0	1712.8	1711.9	1712.8	1704.8	1705.7	1702.2	1707.5	1708.4	1713.7	1709.2
35°	1594.3	1590.7	1584.6	1583.7	1584.6	1583.7	1583.7	1587.2	1586.3	1591.6	1589.9
37.5°	1466.1	1464.3	1458.1	1459.9	1456.3	1462.5	1464.3	1462.5	1468.7	1467.0	1466.1
40°	1340.5	1337.9	1334.3	1341.4	1337.0	1333.4	1339.6	1334.3	1336.1	1341.4	1341.4
42.5°	1213.2	1208.8	1208.8	1208.8	1207.9	1207.9	1210.5	1213.2	1211.4	1212.3	1219.4
45°	1085.0	1084.1	1081.4	1083.2	1082.3	1086.7	1086.7	1088.5	1092.0	1095.6	1093.8
47.5°	961.2	959.4	962.1	960.3	961.2	958.5	960.3	965.6	970.0	963.8	970.0
50°	845.3	841.8	840.9	843.6	842.7	841.8	843.6	843.6	841.8	841.8	848.0
52.5°	734.8	731.3	728.6	733.0	730.4	731.3	727.7	727.7	729.5	727.7	725.1
55°	631.3	628.7	625.2	626.9	622.5	621.6	618.1	618.1	615.4	613.7	608.4
57.5°	532.3	530.5	522.6	521.7	522.6	516.4	510.2	507.6	500.5	498.7	497.8
60°	444.8	435.0	430.6	425.3	421.8	419.1	412.1	407.6	397.0	390.8	389.9
62.5°	353.7	349.3	344.0	336.0	334.2	325.4	318.3	306.8	301.5	293.6	285.6
65°	280.3	268.8	260.9	256.4	249.4	241.4	233.4	221.1	214.9	205.1	197.2
67.5°	205.1	195.4	184.8	181.3	175.1	165.4	157.4	146.8	141.5	132.6	130.0
70°	140.6	131.8	123.8	118.5	114.1	104.3	96.4	92.8	87.5	85.8	85.8
72.5°	90.2	82.2	73.4	70.7	67.2	61.9	56.6	54.8	56.6	55.7	55.7
75°	50.4	46.0	39.8	37.1	37.1	35.4	34.5	34.5	34.5	34.5	34.5
77.5°	25.6	23.0	21.2	20.3	20.3	20.3	21.2	21.2	21.2	22.1	21.2
80°	12.4	11.5	11.5	11.5	12.4	12.4	12.4	12.4	12.4	13.3	12.4
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	7.1	7.1	7.1	7.1	7.1
85°	2.7	2.7	2.7	2.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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





TEST NUMBER: P684404

CATALOG NUMBER: LX6C55D010 EX6C559027 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6
2.5°	2611.2	2609.4	2609.4	2608.5	2608.5	2608.5	2608.5	2609.4
5°	2582.9	2582.0	2582.0	2580.2	2580.2	2580.2	2580.2	2580.2
7.5°	2544.8	2543.1	2544.0	2542.2	2542.2	2543.1	2542.2	2541.3
10°	2498.0	2497.1	2498.0	2498.0	2496.2	2495.3	2496.2	2497.1
12.5°	2444.9	2444.0	2442.3	2443.2	2443.2	2442.3	2441.4	2439.6
15°	2383.0	2382.1	2381.3	2380.4	2379.5	2380.4	2379.5	2377.7
17.5°	2310.5	2310.5	2309.6	2308.7	2307.9	2306.1	2307.0	2309.6
20°	2232.7	2231.8	2230.1	2230.9	2227.4	2225.6	2226.5	2229.2
22.5°	2143.4	2140.7	2142.5	2139.9	2139.9	2140.7	2139.9	2138.1
25°	2046.1	2042.6	2044.4	2045.2	2045.2	2044.4	2043.5	2044.4
27.5°	1938.3	1940.9	1940.9	1939.1	1941.8	1938.3	1940.0	1940.9
30°	1827.7	1825.1	1824.2	1827.7	1833.0	1828.6	1828.6	1829.5
32.5°	1713.7	1710.1	1710.1	1711.9	1711.0	1711.0	1714.5	1710.1
35°	1591.6	1593.4	1586.3	1590.7	1592.5	1590.7	1591.6	1591.6
37.5°	1468.7	1467.0	1467.0	1467.0	1469.6	1469.6	1471.4	1470.5
40°	1347.6	1344.0	1343.2	1344.9	1341.4	1344.0	1344.0	1341.4
42.5°	1216.7	1217.6	1222.0	1217.6	1218.5	1217.6	1215.8	1214.9
45°	1095.6	1098.2	1096.5	1095.6	1096.5	1092.9	1093.8	1096.5
47.5°	967.4	972.7	967.4	970.9	970.0	968.2	966.5	962.9
50°	847.1	848.9	848.0	847.1	846.2	845.3	840.9	838.3
52.5°	724.2	724.2	724.2	724.2	715.3	719.8	718.0	712.7
55°	603.9	606.6	603.1	603.1	596.9	596.9	595.1	596.0
57.5°	488.1	485.4	482.8	482.8	476.6	474.0	471.3	467.8
60°	380.2	377.6	374.0	369.6	363.4	363.4	361.7	354.6
62.5°	278.5	274.1	271.5	267.9	262.6	259.1	256.4	258.2
65°	191.0	186.6	183.0	183.0	183.0	181.3	180.4	180.4
67.5°	125.6	128.2	126.4	128.2	128.2	126.4	125.6	127.3
70°	86.7	86.7	85.8	85.8	85.8	85.8	84.9	85.8
72.5°	55.7	55.7	55.7	56.6	55.7	55.7	56.6	56.6
75°	35.4	35.4	35.4	36.3	35.4	35.4	36.3	35.4
77.5°	21.2	22.1	22.1	22.1	22.1	21.2	22.1	22.1
80°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)