

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252434

Luminaire Tested: **LD6B70D010TE EU6B60709030 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B70D010TE EU6B60709030 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5474.0 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

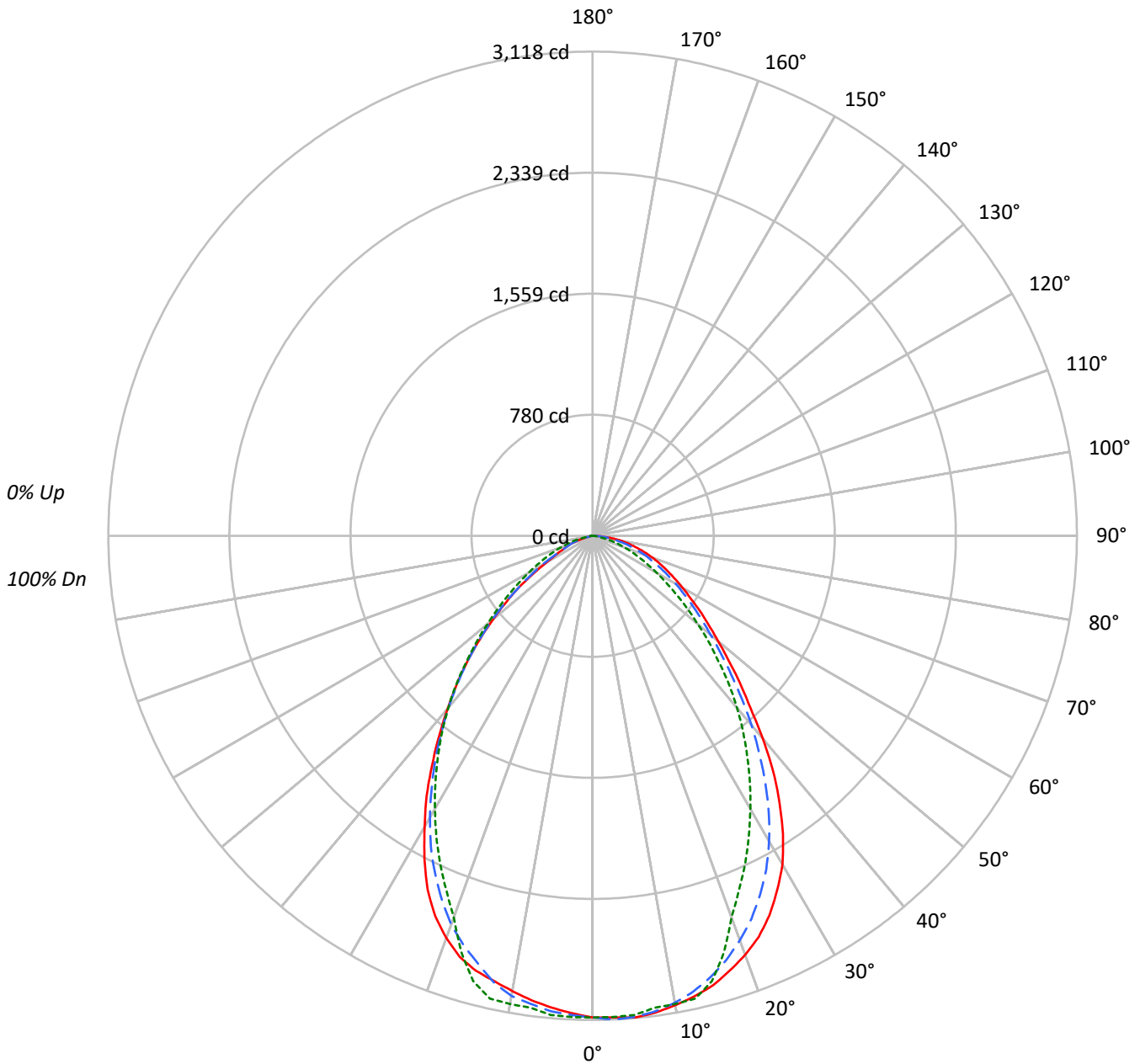
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

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

	0°	90°	180°
0°	202350	202350	202350
5°	203916	202861	199692
10°	203339	202802	197198
15°	202417	200512	195886
20°	199396	181498	191287
25°	193985	167308	180934
30°	184190	152934	162954
35°	167141	138270	143399
40°	145114	123158	123499
45°	123754	105919	104803
50°	107119	89530	84628
55°	95761	74684	65516
60°	87253	62018	44155
65°	81462	50989	32959
70°	77597	41488	27659
75°	73100	29442	9150
80°	69618	15141	3043
85°	57264	9057	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.9	5.4
10°-20°	819.2	15.0
20°-30°	1130.7	20.7
30°-40°	1150.7	21.0
40°-50°	924.7	16.9
50°-60°	614.9	11.2
60°-70°	350.4	6.4
70°-80°	157.4	2.9
80°-90°	33.1	0.6
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°	2242.8	41.0
0°-40°	3393.5	62.0
0°-60°	4933.1	90.1
0°-90°	5474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5474.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3102	3102	3102	3102	3102	
5°	3114	3110	3098	3073	3049	296
15°	2997	2940	2969	2852	2900	843
25°	2695	2550	2324	2401	2514	1235
35°	2099	1938	1736	1768	1800	1304
45°	1341	1261	1148	1136	1136	1040
55°	842	786	657	584	576	756
65°	528	471	330	214	214	526
75°	290	242	117	48	36	310
85°	76	52	12	4	0	91
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°	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6
2.5°	3105.6	3121.8	3117.7	3113.7	3117.7	3113.7	3105.6	3105.6	3097.6	3097.6	3117.7
5°	3113.7	3121.8	3117.7	3113.7	3113.7	3117.7	3101.6	3101.6	3093.6	3089.5	3109.7
7.5°	3097.6	3109.7	3101.6	3101.6	3097.6	3101.6	3085.5	3085.5	3073.4	3069.4	3089.5
10°	3069.4	3085.5	3077.4	3077.4	3077.4	3069.4	3061.3	3057.3	3045.2	3041.2	3053.3
12.5°	3037.2	3049.2	3045.2	3037.2	3037.2	3037.2	3021.1	3017.0	3000.9	2992.9	3004.9
15°	2996.9	3004.9	3000.9	2996.9	2988.8	2988.8	2972.7	2964.7	2948.5	2932.4	2940.5
17.5°	2936.5	2948.5	2940.5	2936.5	2924.4	2924.4	2908.3	2900.2	2876.0	2859.9	2864.0
20°	2872.0	2876.0	2872.0	2864.0	2851.9	2847.8	2831.7	2815.6	2795.5	2775.3	2771.3
22.5°	2795.5	2799.5	2787.4	2779.4	2767.3	2763.3	2743.1	2731.0	2698.8	2674.6	2670.6
25°	2694.8	2698.8	2698.8	2678.7	2670.6	2662.6	2642.4	2622.3	2594.1	2561.9	2549.8
27.5°	2573.9	2586.0	2578.0	2557.8	2541.7	2537.7	2517.5	2501.4	2465.2	2437.0	2420.9
30°	2445.0	2441.0	2437.0	2424.9	2400.7	2396.7	2376.6	2356.4	2328.2	2292.0	2271.8
32.5°	2279.9	2279.9	2275.9	2263.8	2239.6	2231.6	2215.4	2191.3	2159.0	2130.8	2110.7
35°	2098.6	2102.7	2098.6	2074.5	2058.3	2050.3	2042.2	2014.0	1985.8	1953.6	1937.5
37.5°	1909.3	1897.2	1901.2	1881.1	1861.0	1869.0	1844.9	1832.8	1800.5	1776.4	1760.3
40°	1703.9	1711.9	1695.8	1687.8	1675.7	1663.6	1663.6	1643.5	1627.3	1599.1	1591.1
42.5°	1502.5	1514.6	1510.5	1502.5	1486.4	1490.4	1470.2	1462.2	1442.0	1430.0	1417.9
45°	1341.3	1341.3	1341.3	1333.3	1329.3	1321.2	1309.1	1297.0	1285.0	1268.8	1260.8
47.5°	1184.3	1184.3	1188.3	1180.2	1172.2	1168.1	1160.1	1160.1	1139.9	1123.8	1115.8
50°	1055.4	1055.4	1055.4	1047.3	1039.2	1039.2	1031.2	1023.1	1011.0	999.0	990.9
52.5°	938.5	938.5	938.5	930.5	926.5	922.4	918.4	914.4	898.3	890.2	882.1
55°	841.9	837.8	837.8	833.8	825.8	825.8	821.7	813.7	801.6	789.5	785.5
57.5°	745.2	749.2	745.2	745.2	737.1	737.1	729.1	725.1	713.0	704.9	696.9
60°	668.7	668.7	668.7	664.6	656.6	660.6	652.5	648.5	636.4	624.4	616.3
62.5°	592.1	596.2	596.2	592.1	584.1	584.1	580.0	576.0	563.9	551.8	539.8
65°	527.7	527.7	527.7	523.6	519.6	519.6	515.6	511.6	499.5	483.4	471.3
67.5°	467.3	463.2	463.2	463.2	459.2	455.2	451.1	447.1	435.0	422.9	406.8
70°	406.8	406.8	406.8	402.8	394.8	398.8	394.8	390.7	378.6	366.6	354.5
72.5°	350.4	350.4	346.4	342.4	342.4	338.4	338.4	334.3	322.2	306.1	294.0
75°	290.0	290.0	290.0	290.0	282.0	286.0	277.9	273.9	265.9	253.8	241.7
77.5°	237.7	237.7	237.7	233.6	229.6	229.6	225.6	221.5	209.5	201.4	185.3
80°	185.3	185.3	185.3	185.3	181.3	177.2	173.2	169.2	161.1	149.0	137.0
82.5°	137.0	137.0	132.9	132.9	132.9	128.9	124.9	120.8	112.8	104.7	96.7
85°	76.5	80.6	80.6	72.5	76.5	72.5	72.5	64.4	64.4	56.4	52.4
87.5°	28.2	24.2	24.2	24.2	24.2	24.2	24.2	20.1	20.1	20.1	16.1
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°	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6
2.5°	3101.6	3097.6	3113.7	3113.7	3089.5	3101.6	3105.6	3097.6	3097.6	3101.6	3089.5
5°	3093.6	3085.5	3101.6	3105.6	3081.5	3093.6	3097.6	3089.5	3093.6	3097.6	3081.5
7.5°	3065.4	3065.4	3077.4	3081.5	3057.3	3069.4	3069.4	3061.3	3065.4	3065.4	3053.3
10°	3037.2	3025.1	3037.2	3037.2	3017.0	3021.1	3029.1	3025.1	3041.2	3061.3	3061.3
12.5°	2984.8	2972.7	2992.9	2992.9	2980.8	2996.9	3017.0	3029.1	3045.2	3053.3	3029.1
15°	2920.4	2924.4	2960.6	2988.8	2976.7	3000.9	3021.1	3013.0	2992.9	2968.7	2932.4
17.5°	2835.8	2823.7	2855.9	2872.0	2855.9	2864.0	2880.1	2864.0	2831.7	2811.6	2763.3
20°	2739.1	2706.9	2706.9	2698.8	2670.6	2670.6	2666.6	2638.4	2626.3	2614.2	2594.1
22.5°	2630.3	2594.1	2582.0	2557.8	2533.7	2529.6	2517.5	2489.3	2473.2	2465.2	2441.0
25°	2505.5	2473.2	2453.1	2428.9	2392.7	2384.6	2372.5	2344.3	2336.3	2324.2	2304.1
27.5°	2376.6	2336.3	2308.1	2283.9	2251.7	2247.7	2223.5	2203.4	2187.2	2179.2	2163.1
30°	2227.5	2183.2	2163.1	2130.8	2106.7	2098.6	2078.5	2050.3	2038.2	2030.1	2018.1
32.5°	2062.4	2026.1	2006.0	1977.8	1945.6	1949.6	1925.4	1901.2	1893.2	1885.1	1873.1
35°	1901.2	1865.0	1840.8	1816.7	1796.5	1788.5	1772.4	1752.2	1740.1	1736.1	1728.0
37.5°	1724.0	1695.8	1675.7	1651.5	1635.4	1627.3	1619.3	1599.1	1591.1	1591.1	1575.0
40°	1550.8	1526.6	1510.5	1498.4	1478.3	1474.3	1466.2	1454.1	1450.1	1446.1	1434.0
42.5°	1393.7	1361.5	1349.4	1341.3	1329.3	1321.2	1317.2	1309.1	1305.1	1301.1	1289.0
45°	1244.7	1216.5	1204.4	1196.3	1184.3	1180.2	1176.2	1164.1	1156.1	1148.0	1144.0
47.5°	1099.7	1079.5	1075.5	1055.4	1047.3	1039.2	1031.2	1023.1	1019.1	1015.1	999.0
50°	974.8	962.7	942.6	930.5	922.4	918.4	902.3	890.2	886.2	882.1	870.1
52.5°	862.0	845.9	833.8	813.7	809.6	801.6	793.5	777.4	769.4	765.3	753.2
55°	761.3	749.2	733.1	717.0	704.9	700.9	688.8	672.7	664.6	656.6	648.5
57.5°	676.7	656.6	640.5	624.4	616.3	604.2	592.1	584.1	572.0	559.9	547.8
60°	596.2	580.0	559.9	543.8	535.7	527.7	511.6	499.5	487.4	475.3	463.2
62.5°	519.6	503.5	483.4	467.3	459.2	451.1	435.0	422.9	410.9	398.8	382.7
65°	451.1	435.0	418.9	402.8	394.8	386.7	370.6	354.5	342.4	330.3	314.2
67.5°	394.8	374.6	358.5	342.4	334.3	326.3	310.2	298.1	282.0	269.9	253.8
70°	334.3	318.2	306.1	290.0	282.0	273.9	257.8	241.7	229.6	217.5	201.4
72.5°	282.0	261.8	249.7	233.6	225.6	221.5	205.4	193.3	181.3	165.2	153.1
75°	225.6	209.5	193.3	181.3	173.2	169.2	153.1	141.0	128.9	116.8	104.7
77.5°	173.2	161.1	145.0	132.9	124.9	120.8	104.7	92.6	80.6	72.5	60.4
80°	128.9	112.8	104.7	92.6	88.6	80.6	72.5	60.4	52.4	40.3	32.2
82.5°	88.6	76.5	68.5	60.4	56.4	52.4	44.3	36.3	28.2	24.2	20.1
85°	48.3	40.3	36.3	32.2	28.2	28.2	24.2	20.1	16.1	12.1	8.1
87.5°	16.1	12.1	12.1	12.1	12.1	8.1	8.1	8.1	4.0	4.0	4.0
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°	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6
2.5°	3097.6	3097.6	3097.6	3093.6	3093.6	3093.6	3089.5	3105.6	3089.5	3085.5	3097.6
5°	3093.6	3085.5	3085.5	3085.5	3085.5	3081.5	3077.4	3085.5	3073.4	3069.4	3069.4
7.5°	3069.4	3065.4	3065.4	3061.3	3057.3	3053.3	3049.2	3053.3	3041.2	3037.2	3037.2
10°	3073.4	3065.4	3065.4	3053.3	3045.2	3033.1	3021.1	3025.1	3009.0	2996.9	2996.9
12.5°	3025.1	3004.9	2992.9	2980.8	2972.7	2968.7	2952.6	2960.6	2944.5	2940.5	2940.5
15°	2916.3	2892.2	2872.0	2864.0	2864.0	2855.9	2843.8	2859.9	2851.9	2855.9	2876.0
17.5°	2747.1	2735.1	2723.0	2718.9	2723.0	2731.0	2739.1	2763.3	2763.3	2775.3	2795.5
20°	2598.1	2590.0	2598.1	2598.1	2602.1	2618.2	2634.4	2654.5	2662.6	2674.6	2702.8
22.5°	2453.1	2453.1	2461.2	2473.2	2469.2	2497.4	2501.4	2537.7	2537.7	2561.9	2586.0
25°	2312.1	2312.1	2320.2	2324.2	2332.3	2348.4	2364.5	2392.7	2400.7	2424.9	2445.0
27.5°	2175.2	2171.1	2171.1	2175.2	2183.2	2203.4	2211.4	2243.6	2255.7	2271.8	2292.0
30°	2022.1	2018.1	2026.1	2034.2	2030.1	2050.3	2062.4	2086.5	2094.6	2110.7	2126.8
32.5°	1877.1	1877.1	1877.1	1885.1	1885.1	1901.2	1901.2	1929.4	1929.4	1941.5	1957.6
35°	1728.0	1728.0	1732.1	1736.1	1740.1	1744.2	1748.2	1764.3	1768.3	1772.4	1780.4
37.5°	1587.1	1583.0	1587.1	1587.1	1579.0	1595.1	1595.1	1611.2	1599.1	1611.2	1615.3
40°	1442.0	1442.0	1438.0	1438.0	1438.0	1446.1	1438.0	1450.1	1442.0	1450.1	1446.1
42.5°	1293.0	1293.0	1285.0	1293.0	1289.0	1289.0	1289.0	1297.0	1285.0	1293.0	1297.0
45°	1144.0	1139.9	1139.9	1135.9	1135.9	1135.9	1139.9	1139.9	1135.9	1144.0	1144.0
47.5°	999.0	994.9	994.9	994.9	994.9	999.0	986.9	994.9	986.9	986.9	986.9
50°	874.1	870.1	866.0	862.0	858.0	858.0	854.0	854.0	845.9	841.9	837.8
52.5°	753.2	749.2	741.2	741.2	737.1	733.1	721.0	721.0	708.9	704.9	704.9
55°	644.5	632.4	628.4	620.3	620.3	612.3	604.2	596.2	584.1	576.0	576.0
57.5°	543.8	531.7	523.6	519.6	515.6	507.5	491.4	487.4	471.3	467.3	463.2
60°	455.2	443.1	431.0	422.9	418.9	406.8	390.7	382.7	374.6	362.5	350.4
62.5°	370.6	358.5	342.4	338.4	330.3	318.2	306.1	294.0	286.0	273.9	265.9
65°	298.1	286.0	273.9	265.9	257.8	245.7	233.6	221.5	213.5	209.5	205.4
67.5°	241.7	225.6	213.5	209.5	201.4	193.3	181.3	177.2	169.2	169.2	169.2
70°	189.3	177.2	165.2	161.1	157.1	149.0	141.0	141.0	141.0	141.0	141.0
72.5°	141.0	132.9	120.8	116.8	112.8	108.8	100.7	104.7	100.7	100.7	100.7
75°	88.6	80.6	72.5	68.5	64.4	60.4	56.4	52.4	48.3	44.3	44.3
77.5°	48.3	40.3	36.3	32.2	32.2	28.2	24.2	24.2	20.1	20.1	20.1
80°	28.2	24.2	20.1	16.1	16.1	12.1	12.1	12.1	12.1	8.1	8.1
82.5°	16.1	12.1	8.1	8.1	8.1	8.1	4.0	4.0	4.0	4.0	4.0
85°	8.1	8.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P252434

CATALOG NUMBER: LD6B70D010TE EU6B60709030 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6
2.5°	3077.4	3089.5	3077.4	3089.5	3089.5	3089.5	3089.5	3077.4
5°	3057.3	3065.4	3053.3	3061.3	3065.4	3061.3	3061.3	3049.2
7.5°	3021.1	3029.1	3017.0	3029.1	3033.1	3029.1	3025.1	3017.0
10°	2984.8	2988.8	2976.7	2984.8	2992.9	2992.9	2988.8	2976.7
12.5°	2928.4	2940.5	2928.4	2936.5	2944.5	2948.5	2948.5	2936.5
15°	2864.0	2884.1	2876.0	2888.1	2900.2	2904.2	2904.2	2900.2
17.5°	2799.5	2819.6	2807.6	2827.7	2839.8	2847.8	2851.9	2843.8
20°	2706.9	2731.0	2723.0	2739.1	2755.2	2767.3	2767.3	2755.2
22.5°	2586.0	2618.2	2614.2	2626.3	2646.4	2650.5	2658.5	2650.5
25°	2453.1	2477.3	2473.2	2485.3	2509.5	2509.5	2513.5	2513.5
27.5°	2300.0	2324.2	2320.2	2328.2	2344.3	2348.4	2352.4	2344.3
30°	2134.9	2147.0	2147.0	2159.0	2171.1	2175.2	2175.2	2163.1
32.5°	1953.6	1969.7	1977.8	1973.8	1985.8	1993.9	1989.9	1989.9
35°	1788.5	1792.5	1796.5	1800.5	1804.6	1812.6	1804.6	1800.5
37.5°	1611.2	1623.3	1615.3	1623.3	1631.4	1627.3	1623.3	1623.3
40°	1450.1	1454.1	1446.1	1454.1	1458.2	1458.2	1458.2	1450.1
42.5°	1289.0	1297.0	1289.0	1297.0	1297.0	1297.0	1297.0	1293.0
45°	1127.9	1135.9	1135.9	1139.9	1139.9	1135.9	1135.9	1135.9
47.5°	978.8	986.9	978.8	986.9	990.9	982.8	982.8	982.8
50°	837.8	833.8	833.8	837.8	837.8	837.8	837.8	833.8
52.5°	692.8	696.9	696.9	696.9	700.9	696.9	700.9	700.9
55°	568.0	568.0	568.0	572.0	568.0	568.0	572.0	576.0
57.5°	455.2	451.1	447.1	447.1	451.1	447.1	447.1	447.1
60°	350.4	346.4	342.4	342.4	342.4	342.4	342.4	338.4
62.5°	261.8	261.8	261.8	265.9	265.9	265.9	265.9	269.9
65°	209.5	209.5	209.5	209.5	209.5	209.5	209.5	213.5
67.5°	169.2	169.2	169.2	173.2	173.2	173.2	173.2	173.2
70°	141.0	141.0	145.0	141.0	145.0	145.0	145.0	145.0
72.5°	96.7	96.7	96.7	96.7	96.7	92.6	96.7	92.6
75°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	36.3
77.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)