

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: P252541

Luminaire Tested: **LD6B70D010TE EU6B60709050 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B70D010TE EU6B60709050 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5245.0 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

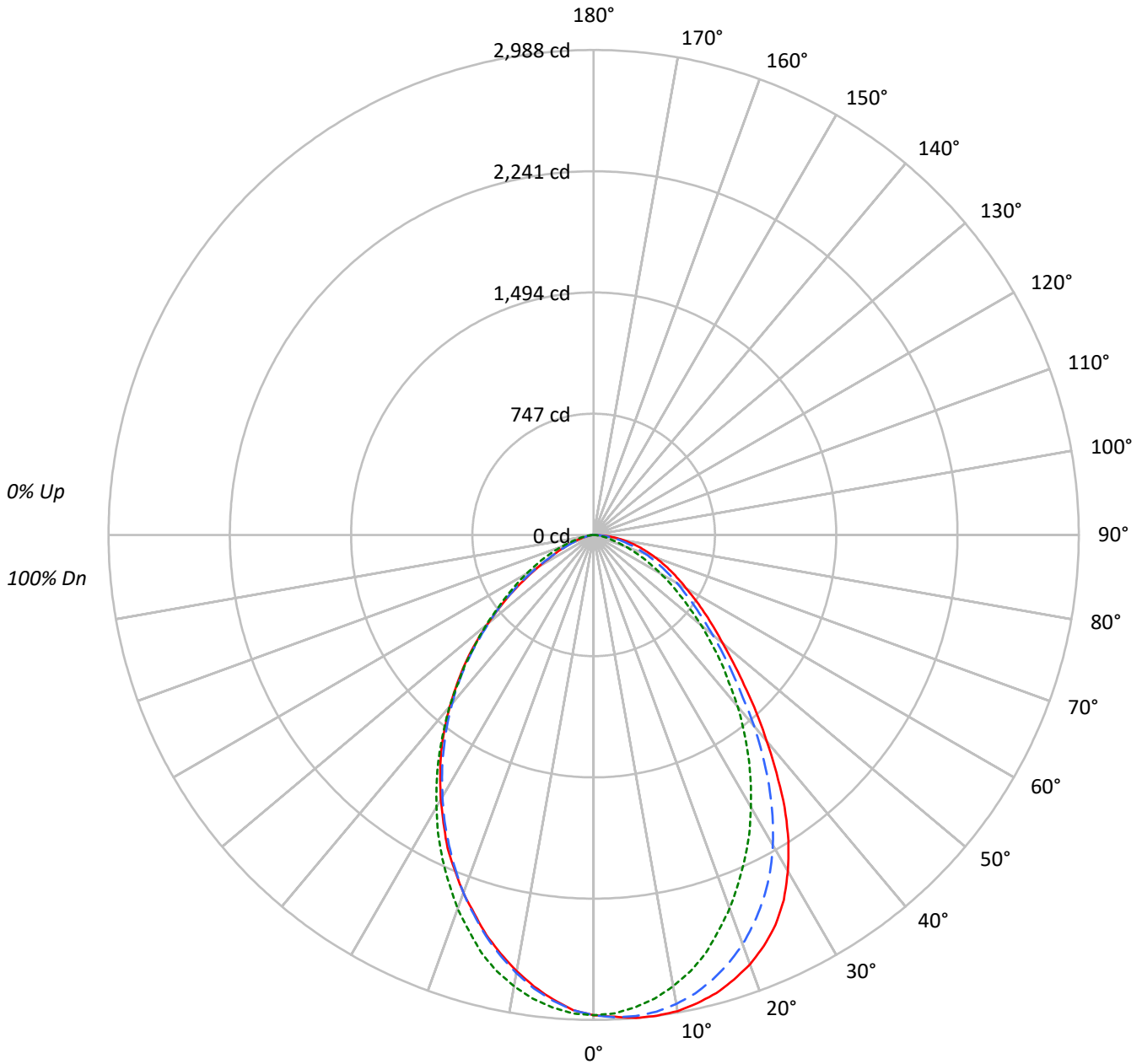
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

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

	0°	90°	180°
0°	193047	193047	193047
5°	195664	191361	188133
10°	197383	187035	180775
15°	197358	180148	172374
20°	195446	170056	162919
25°	190811	158569	153242
30°	180182	145823	141793
35°	163326	132233	130600
40°	141051	117597	117247
45°	120958	102376	103133
50°	105110	87591	86343
55°	94430	73854	69179
60°	85791	62200	50940
65°	80567	51391	37435
70°	76815	39981	27430
75°	73554	29013	18653
80°	69468	20063	12361
85°	61531	12276	6138



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.8	5.3
10°-20°	758.1	14.5
20°-30°	1052.4	20.1
30°-40°	1090.1	20.8
40°-50°	895.8	17.1
50°-60°	615.7	11.7
60°-70°	353.9	6.7
70°-80°	162.7	3.1
80°-90°	39.6	0.8
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°	2087.2	39.8
0°-40°	3177.3	60.6
0°-60°	4688.8	89.4
0°-90°	5245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5245.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2959	2959	2959	2959	2959	
5°	2988	2975	2922	2881	2873	285
15°	2922	2836	2667	2560	2552	823
25°	2651	2474	2203	2108	2129	1213
35°	2051	1882	1660	1611	1640	1272
45°	1311	1212	1110	1097	1118	1021
55°	830	752	649	612	608	747
65°	522	456	333	234	242	520
75°	292	230	115	74	74	308
85°	82	58	16	8	8	92
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°	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0
2.5°	2971.3	2995.9	2979.5	2975.4	2983.6	2983.6	2983.6	2971.3	2979.5	2967.2	2975.4
5°	2987.7	3008.3	2991.8	2983.6	2991.8	2995.9	2983.6	2975.4	2987.7	2971.3	2975.4
7.5°	2987.7	3008.3	2991.8	2987.7	2991.8	2991.8	2987.7	2971.3	2979.5	2963.1	2963.1
10°	2979.5	2995.9	2979.5	2971.3	2975.4	2971.3	2971.3	2950.7	2954.8	2934.3	2934.3
12.5°	2954.8	2975.4	2954.8	2946.6	2946.6	2946.6	2934.3	2917.9	2922.0	2897.3	2893.2
15°	2922.0	2938.4	2917.9	2909.6	2909.6	2905.5	2897.3	2872.7	2872.7	2848.0	2835.7
17.5°	2872.7	2889.1	2872.7	2860.3	2856.2	2848.0	2839.8	2815.1	2806.9	2778.1	2765.8
20°	2815.1	2827.4	2811.0	2798.7	2790.5	2782.2	2765.8	2741.1	2732.9	2704.2	2683.6
22.5°	2741.1	2757.6	2732.9	2720.6	2712.4	2700.0	2683.6	2659.0	2646.6	2609.6	2585.0
25°	2650.7	2659.0	2638.4	2626.1	2609.6	2601.4	2589.1	2556.2	2543.9	2502.8	2474.0
27.5°	2535.7	2543.9	2519.2	2511.0	2490.5	2482.2	2465.8	2437.0	2420.6	2379.5	2350.7
30°	2391.8	2400.0	2383.6	2371.3	2354.8	2338.4	2326.1	2297.3	2272.6	2231.5	2206.9
32.5°	2231.5	2243.9	2227.4	2211.0	2182.2	2186.3	2165.8	2137.0	2116.5	2079.5	2050.7
35°	2050.7	2058.9	2038.4	2034.3	2017.8	2001.4	1980.9	1960.3	1948.0	1906.9	1882.2
37.5°	1849.3	1869.9	1849.3	1832.9	1824.7	1812.4	1800.0	1771.3	1763.0	1738.4	1705.5
40°	1656.2	1668.5	1656.2	1639.8	1627.4	1627.4	1611.0	1594.5	1574.0	1549.3	1537.0
42.5°	1483.6	1475.4	1471.3	1463.0	1446.6	1442.5	1438.4	1417.8	1405.5	1380.8	1360.3
45°	1311.0	1315.1	1306.9	1302.8	1290.4	1282.2	1274.0	1257.6	1253.4	1228.8	1212.4
47.5°	1167.1	1163.0	1154.8	1154.8	1146.6	1138.4	1130.2	1117.8	1113.7	1093.2	1076.7
50°	1035.6	1039.7	1035.6	1031.5	1019.2	1015.1	1006.9	998.6	990.4	969.9	953.4
52.5°	928.8	924.7	920.6	920.6	908.2	904.1	895.9	887.7	879.5	858.9	846.6
55°	830.2	830.2	826.0	821.9	809.6	805.5	801.4	793.2	780.8	764.4	752.1
57.5°	739.7	739.7	735.6	731.5	723.3	723.3	715.1	706.9	698.6	682.2	665.8
60°	657.5	661.7	657.5	653.4	645.2	645.2	641.1	628.8	624.7	604.1	591.8
62.5°	587.7	587.7	587.7	583.6	579.5	571.2	571.2	558.9	550.7	538.4	521.9
65°	521.9	521.9	521.9	517.8	509.6	505.5	501.4	493.2	484.9	472.6	456.2
67.5°	460.3	460.3	460.3	456.2	448.0	443.8	439.7	435.6	423.3	411.0	394.5
70°	402.7	402.7	398.6	394.5	390.4	386.3	382.2	374.0	365.8	349.3	337.0
72.5°	345.2	345.2	345.2	337.0	332.9	332.9	324.7	320.6	312.3	295.9	283.6
75°	291.8	287.7	287.7	283.6	279.5	275.3	271.2	267.1	254.8	246.6	230.1
77.5°	238.4	238.4	234.3	230.1	230.1	226.0	221.9	213.7	209.6	197.3	184.9
80°	184.9	184.9	184.9	184.9	180.8	176.7	176.7	168.5	164.4	152.1	143.8
82.5°	139.7	135.6	135.6	135.6	131.5	127.4	127.4	123.3	119.2	111.0	102.7
85°	82.2	78.1	78.1	78.1	74.0	74.0	69.9	69.9	65.8	57.5	57.5
87.5°	24.7	24.7	28.8	28.8	24.7	24.7	24.7	24.7	24.7	20.5	20.5
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°	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0
2.5°	2967.2	2979.5	2963.1	2959.0	2975.4	2967.2	2963.1	2954.8	2959.0	2950.7	2938.4
5°	2963.1	2979.5	2959.0	2946.6	2967.2	2954.8	2946.6	2938.4	2938.4	2922.0	2913.8
7.5°	2950.7	2959.0	2938.4	2926.1	2938.4	2926.1	2917.9	2905.5	2901.4	2880.9	2868.5
10°	2917.9	2926.1	2901.4	2885.0	2897.3	2880.9	2868.5	2856.2	2848.0	2823.3	2806.9
12.5°	2872.7	2876.8	2848.0	2827.4	2835.7	2823.3	2802.8	2786.4	2778.1	2753.5	2732.9
15°	2811.0	2815.1	2782.2	2753.5	2761.7	2745.3	2720.6	2704.2	2691.8	2667.2	2638.4
17.5°	2737.0	2732.9	2695.9	2667.2	2671.3	2650.7	2626.1	2601.4	2585.0	2556.2	2535.7
20°	2654.8	2642.5	2601.4	2568.5	2572.6	2548.0	2519.2	2494.6	2474.0	2449.4	2420.6
22.5°	2552.1	2535.7	2498.7	2457.6	2461.7	2441.1	2400.0	2379.5	2358.9	2326.1	2301.4
25°	2441.1	2416.5	2379.5	2338.4	2338.4	2313.7	2280.9	2256.2	2235.7	2202.8	2174.0
27.5°	2309.6	2297.3	2248.0	2215.1	2211.0	2186.3	2157.6	2128.8	2104.1	2075.4	2046.6
30°	2165.8	2145.2	2108.3	2071.3	2063.1	2042.5	2013.7	1980.9	1964.4	1935.7	1911.0
32.5°	2013.7	1993.2	1952.1	1915.1	1911.0	1894.6	1869.9	1837.0	1820.6	1800.0	1783.6
35°	1841.1	1832.9	1791.8	1763.0	1763.0	1746.6	1721.9	1693.2	1680.9	1660.3	1639.8
37.5°	1676.7	1664.4	1627.4	1602.8	1602.8	1582.2	1557.6	1545.2	1532.9	1516.5	1504.1
40°	1504.1	1495.9	1467.1	1442.5	1446.6	1430.2	1413.7	1397.3	1389.1	1380.8	1368.5
42.5°	1343.9	1335.6	1315.1	1294.5	1294.5	1282.2	1265.8	1253.4	1245.2	1232.9	1228.8
45°	1200.0	1187.7	1171.3	1150.7	1150.7	1138.4	1130.2	1121.9	1117.8	1109.6	1097.3
47.5°	1060.3	1052.1	1035.6	1015.1	1015.1	1015.1	998.6	986.3	986.3	978.1	974.0
50°	941.1	928.8	916.5	900.0	900.0	891.8	879.5	867.1	867.1	863.0	854.8
52.5°	830.2	821.9	805.5	789.1	789.1	780.8	768.5	764.4	760.3	748.0	743.8
55°	735.6	727.4	715.1	694.5	690.4	686.3	674.0	665.8	661.7	649.3	649.3
57.5°	649.3	641.1	620.6	608.2	604.1	595.9	583.6	575.4	571.2	563.0	554.8
60°	575.4	563.0	546.6	530.1	526.0	517.8	505.5	497.3	493.2	476.7	468.5
62.5°	505.5	493.2	476.7	460.3	456.2	448.0	431.5	423.3	415.1	398.6	390.4
65°	439.7	427.4	411.0	394.5	386.3	382.2	365.8	353.4	345.2	332.9	316.4
67.5°	378.1	365.8	349.3	328.8	328.8	316.4	304.1	291.8	279.5	267.1	254.8
70°	320.6	308.2	291.8	275.3	271.2	263.0	250.7	234.3	226.0	209.6	197.3
72.5°	267.1	254.8	238.4	221.9	217.8	209.6	197.3	180.8	168.5	156.2	143.8
75°	217.8	205.5	189.0	176.7	172.6	164.4	152.1	135.6	123.3	115.1	102.7
77.5°	172.6	160.3	147.9	135.6	131.5	123.3	111.0	102.7	90.4	82.2	69.9
80°	131.5	123.3	111.0	102.7	98.6	90.4	82.2	69.9	61.6	53.4	49.3
82.5°	94.5	86.3	78.1	65.8	65.8	57.5	53.4	45.2	37.0	32.9	28.8
85°	53.4	45.2	41.1	37.0	32.9	32.9	28.8	24.7	20.5	16.4	16.4
87.5°	16.4	16.4	12.3	12.3	12.3	12.3	8.2	8.2	8.2	8.2	8.2
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°	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0
2.5°	2938.4	2942.5	2934.3	2942.5	2934.3	2938.4	2930.2	2938.4	2930.2	2938.4	2922.0
5°	2909.6	2909.6	2897.3	2905.5	2897.3	2901.4	2885.0	2889.1	2880.9	2889.1	2872.7
7.5°	2860.3	2864.4	2843.9	2852.1	2839.8	2839.8	2827.4	2831.6	2819.2	2823.3	2811.0
10°	2802.8	2798.7	2778.1	2786.4	2769.9	2769.9	2757.6	2757.6	2741.1	2745.3	2728.8
12.5°	2720.6	2716.5	2691.8	2700.0	2683.6	2683.6	2671.3	2671.3	2654.8	2663.1	2646.6
15°	2626.1	2622.0	2597.3	2601.4	2585.0	2585.0	2568.5	2572.6	2560.3	2568.5	2552.1
17.5°	2519.2	2515.1	2490.5	2494.6	2474.0	2478.1	2465.8	2461.7	2453.5	2457.6	2445.2
20°	2408.3	2400.0	2375.4	2379.5	2371.3	2358.9	2350.7	2354.8	2346.6	2354.8	2342.5
22.5°	2293.2	2276.8	2256.2	2256.2	2248.0	2248.0	2235.7	2243.9	2227.4	2239.8	2231.5
25°	2161.7	2149.4	2132.9	2141.1	2124.7	2124.7	2112.4	2116.5	2108.3	2116.5	2108.3
27.5°	2034.3	2026.1	2001.4	2009.6	1997.3	2001.4	1989.1	1993.2	1989.1	1997.3	1989.1
30°	1898.7	1894.6	1878.1	1878.1	1874.0	1869.9	1865.8	1865.8	1861.7	1874.0	1865.8
32.5°	1771.3	1758.9	1742.5	1754.8	1734.3	1746.6	1738.4	1746.6	1738.4	1746.6	1742.5
35°	1639.8	1635.6	1615.1	1619.2	1615.1	1615.1	1611.0	1611.0	1611.0	1623.3	1623.3
37.5°	1500.0	1495.9	1483.6	1487.7	1479.5	1475.4	1475.4	1483.6	1483.6	1491.8	1491.8
40°	1364.4	1368.5	1356.2	1356.2	1352.1	1352.1	1352.1	1360.3	1356.2	1364.4	1360.3
42.5°	1228.8	1228.8	1216.5	1220.6	1216.5	1220.6	1220.6	1228.8	1228.8	1232.9	1228.8
45°	1101.4	1101.4	1097.3	1101.4	1093.2	1097.3	1093.2	1101.4	1097.3	1101.4	1101.4
47.5°	974.0	974.0	974.0	969.9	969.9	969.9	969.9	969.9	965.8	974.0	969.9
50°	854.8	858.9	854.8	854.8	850.7	854.8	850.7	850.7	842.5	846.6	846.6
52.5°	748.0	748.0	739.7	739.7	739.7	735.6	735.6	735.6	731.5	731.5	723.3
55°	645.2	645.2	637.0	637.0	632.9	628.8	624.7	624.7	612.3	612.3	600.0
57.5°	550.7	546.6	534.3	534.3	526.0	521.9	517.8	513.7	505.5	497.3	493.2
60°	464.4	456.2	448.0	443.8	435.6	427.4	419.2	411.0	402.7	398.6	394.5
62.5°	382.2	369.9	361.7	357.5	349.3	337.0	328.8	320.6	312.3	308.2	300.0
65°	308.2	295.9	283.6	279.5	271.2	263.0	250.7	242.5	234.3	230.1	230.1
67.5°	242.5	230.1	213.7	213.7	205.5	197.3	189.0	180.8	176.7	180.8	180.8
70°	180.8	172.6	160.3	156.2	147.9	139.7	135.6	135.6	135.6	139.7	135.6
72.5°	135.6	123.3	115.1	111.0	106.9	102.7	102.7	102.7	98.6	102.7	102.7
75°	94.5	86.3	78.1	78.1	74.0	74.0	74.0	74.0	74.0	74.0	74.0
77.5°	65.8	57.5	53.4	53.4	53.4	49.3	49.3	49.3	49.3	49.3	49.3
80°	41.1	41.1	37.0	37.0	32.9	32.9	32.9	32.9	32.9	32.9	32.9
82.5°	24.7	24.7	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
85°	12.3	12.3	12.3	12.3	12.3	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	4.1	4.1	4.1	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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: P252541

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0	2959.0
2.5°	2922.0	2934.3	2917.9	2930.2	2926.1	2922.0	2913.8	2930.2
5°	2872.7	2876.8	2860.3	2876.8	2872.7	2864.4	2856.2	2872.7
7.5°	2802.8	2815.1	2794.6	2811.0	2806.9	2798.7	2790.5	2806.9
10°	2724.7	2737.0	2720.6	2732.9	2732.9	2724.7	2712.4	2728.8
12.5°	2638.4	2646.6	2630.2	2646.6	2642.5	2634.3	2630.2	2642.5
15°	2543.9	2556.2	2539.8	2552.1	2548.0	2543.9	2539.8	2552.1
17.5°	2441.1	2453.5	2441.1	2453.5	2453.5	2441.1	2437.0	2445.2
20°	2338.4	2346.6	2334.3	2346.6	2342.5	2342.5	2334.3	2346.6
22.5°	2223.3	2235.7	2227.4	2235.7	2231.5	2231.5	2227.4	2235.7
25°	2108.3	2120.6	2108.3	2120.6	2116.5	2116.5	2108.3	2128.8
27.5°	1993.2	2001.4	1989.1	2005.5	2001.4	1993.2	1997.3	2001.4
30°	1869.9	1878.1	1869.9	1882.2	1882.2	1882.2	1874.0	1882.2
32.5°	1746.6	1758.9	1746.6	1758.9	1754.8	1754.8	1750.7	1758.9
35°	1623.3	1627.4	1619.2	1631.5	1631.5	1635.6	1627.4	1639.8
37.5°	1495.9	1500.0	1495.9	1500.0	1508.2	1495.9	1504.1	1508.2
40°	1364.4	1372.6	1368.5	1372.6	1372.6	1376.7	1372.6	1376.7
42.5°	1232.9	1241.1	1232.9	1245.2	1241.1	1241.1	1245.2	1245.2
45°	1097.3	1109.6	1101.4	1109.6	1113.7	1109.6	1109.6	1117.8
47.5°	969.9	978.1	974.0	978.1	978.1	978.1	978.1	986.3
50°	842.5	846.6	846.6	850.7	850.7	854.8	846.6	850.7
52.5°	715.1	723.3	723.3	723.3	719.2	723.3	723.3	723.3
55°	600.0	604.1	595.9	604.1	604.1	600.0	600.0	608.2
57.5°	489.0	489.0	489.0	489.0	489.0	484.9	489.0	489.0
60°	386.3	390.4	386.3	386.3	386.3	386.3	382.2	390.4
62.5°	300.0	300.0	295.9	300.0	300.0	300.0	304.1	304.1
65°	234.3	238.4	234.3	238.4	238.4	238.4	238.4	242.5
67.5°	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9
70°	139.7	139.7	139.7	143.8	139.7	139.7	139.7	143.8
72.5°	102.7	102.7	102.7	102.7	102.7	102.7	106.9	106.9
75°	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
77.5°	49.3	49.3	49.3	53.4	49.3	53.4	49.3	49.3
80°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
82.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
85°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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















(END OF REPORT)