

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: P252437

Luminaire Tested: **LD6B70D010TE EU6B60709050 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252437  
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 EU6B60709050 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5586.0 lumens  
Efficiency: N/A  
Efficacy: 70.3 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

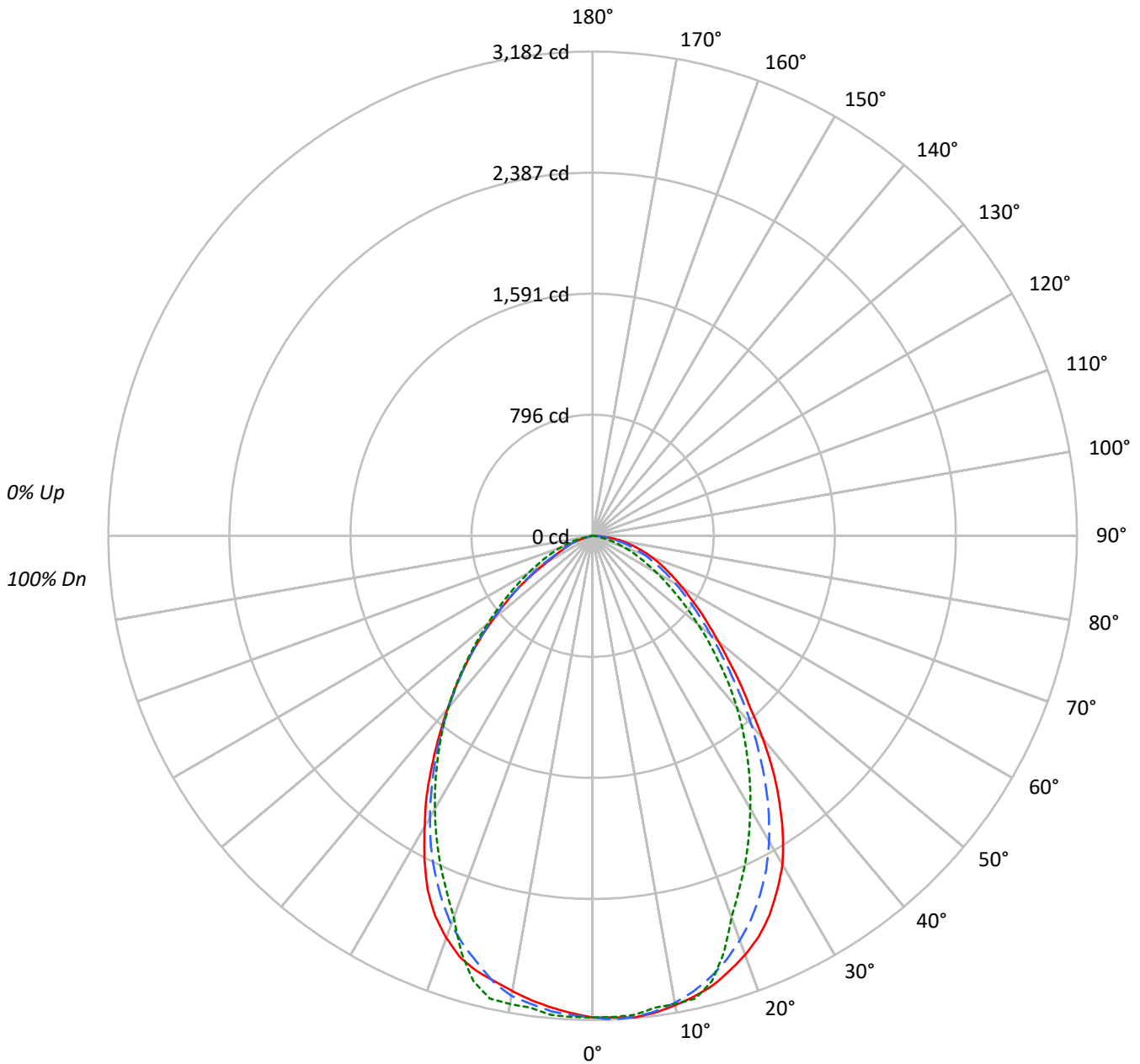
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

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

	0°	90°	180°
0°	206493	206493	206493
5°	208087	207013	203778
10°	207499	206956	201232
15°	206557	204612	199891
20°	203478	185212	195203
25°	197952	170734	184634
30°	187964	156068	166283
35°	170566	141097	146338
40°	148077	125679	126028
45°	126291	108087	106953
50°	109301	91367	86363
55°	97717	76208	66858
60°	89027	63283	45055
65°	83130	52039	33638
70°	79200	42347	28231
75°	74613	30047	9327
80°	71046	15442	3081
85°	58462	9207	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.9	5.4
10°-20°	836.0	15.0
20°-30°	1153.9	20.7
30°-40°	1174.2	21.0
40°-50°	943.7	16.9
50°-60°	627.5	11.2
60°-70°	357.6	6.4
70°-80°	160.6	2.9
80°-90°	33.8	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°	2288.7	41.0
0°-40°	3462.9	62.0
0°-60°	5034.0	90.1
0°-90°	5586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5586.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3165	3165	3165	3165	3165	
5°	3177	3173	3161	3136	3112	302
15°	3058	3001	3029	2910	2960	861
25°	2750	2602	2372	2450	2565	1260
35°	2142	1977	1772	1804	1837	1331
45°	1369	1287	1172	1159	1159	1061
55°	859	802	670	596	588	772
65°	538	481	337	218	218	536
75°	296	247	119	49	37	316
85°	78	53	12	4	0	93
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°	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1
2.5°	3169.2	3185.6	3181.5	3177.4	3181.5	3177.4	3169.2	3169.2	3161.0	3161.0	3181.5
5°	3177.4	3185.6	3181.5	3177.4	3177.4	3181.5	3165.1	3165.1	3156.9	3152.7	3173.3
7.5°	3161.0	3173.3	3165.1	3165.1	3161.0	3165.1	3148.6	3148.6	3136.3	3132.2	3152.7
10°	3132.2	3148.6	3140.4	3140.4	3140.4	3132.2	3124.0	3119.9	3107.5	3103.4	3115.7
12.5°	3099.3	3111.6	3107.5	3099.3	3099.3	3099.3	3082.9	3078.8	3062.3	3054.1	3066.4
15°	3058.2	3066.4	3062.3	3058.2	3050.0	3050.0	3033.5	3025.3	3008.9	2992.4	3000.7
17.5°	2996.5	3008.9	3000.7	2996.5	2984.2	2984.2	2967.8	2959.5	2934.9	2918.4	2922.6
20°	2930.8	2934.9	2930.8	2922.6	2910.2	2906.1	2889.7	2873.2	2852.7	2832.1	2828.0
22.5°	2852.7	2856.8	2844.5	2836.2	2823.9	2819.8	2799.2	2786.9	2754.0	2729.4	2725.3
25°	2749.9	2754.0	2754.0	2733.5	2725.3	2717.0	2696.5	2675.9	2647.2	2614.3	2601.9
27.5°	2626.6	2638.9	2630.7	2610.2	2593.7	2589.6	2569.1	2552.6	2515.6	2486.8	2470.4
30°	2495.1	2491.0	2486.8	2474.5	2449.8	2445.7	2425.2	2404.6	2375.9	2338.9	2318.3
32.5°	2326.5	2326.5	2322.4	2310.1	2285.4	2277.2	2260.8	2236.1	2203.2	2174.4	2153.9
35°	2141.6	2145.7	2141.6	2116.9	2100.5	2092.2	2084.0	2055.2	2026.5	1993.6	1977.1
37.5°	1948.4	1936.0	1940.1	1919.6	1899.0	1907.3	1882.6	1870.3	1837.4	1812.7	1796.3
40°	1738.7	1747.0	1730.5	1722.3	1710.0	1697.6	1697.6	1677.1	1660.6	1631.9	1623.6
42.5°	1533.2	1545.5	1541.4	1533.2	1516.8	1520.9	1500.3	1492.1	1471.6	1459.2	1446.9
45°	1368.8	1368.8	1368.8	1360.6	1356.5	1348.2	1335.9	1323.6	1311.2	1294.8	1286.6
47.5°	1208.5	1208.5	1212.6	1204.4	1196.2	1192.0	1183.8	1183.8	1163.3	1146.8	1138.6
50°	1076.9	1076.9	1076.9	1068.7	1060.5	1060.5	1052.3	1044.1	1031.7	1019.4	1011.2
52.5°	957.7	957.7	957.7	949.5	945.4	941.3	937.2	933.1	916.6	908.4	900.2
55°	859.1	855.0	855.0	850.9	842.6	842.6	838.5	830.3	818.0	805.7	801.5
57.5°	760.4	764.6	760.4	760.4	752.2	752.2	744.0	739.9	727.6	719.3	711.1
60°	682.3	682.3	682.3	678.2	670.0	674.1	665.9	661.8	649.5	637.1	628.9
62.5°	604.2	608.4	608.4	604.2	596.0	596.0	591.9	587.8	575.5	563.1	550.8
65°	538.5	538.5	538.5	534.4	530.3	530.3	526.1	522.0	509.7	493.3	480.9
67.5°	476.8	472.7	472.7	472.7	468.6	464.5	460.4	456.3	443.9	431.6	415.2
70°	415.2	415.2	415.2	411.0	402.8	406.9	402.8	398.7	386.4	374.1	361.7
72.5°	357.6	357.6	353.5	349.4	349.4	345.3	345.3	341.2	328.8	312.4	300.1
75°	296.0	296.0	296.0	296.0	287.7	291.8	283.6	279.5	271.3	259.0	246.6
77.5°	242.5	242.5	242.5	238.4	234.3	234.3	230.2	226.1	213.7	205.5	189.1
80°	189.1	189.1	189.1	189.1	185.0	180.9	176.8	172.6	164.4	152.1	139.8
82.5°	139.8	139.8	135.6	135.6	135.6	131.5	127.4	123.3	115.1	106.9	98.7
85°	78.1	82.2	82.2	74.0	78.1	74.0	74.0	65.8	65.8	57.5	53.4
87.5°	28.8	24.7	24.7	24.7	24.7	24.7	24.7	20.6	20.6	20.6	16.4
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°	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1
2.5°	3165.1	3161.0	3177.4	3177.4	3152.7	3165.1	3169.2	3161.0	3161.0	3165.1	3152.7
5°	3156.9	3148.6	3165.1	3169.2	3144.5	3156.9	3161.0	3152.7	3156.9	3161.0	3144.5
7.5°	3128.1	3128.1	3140.4	3144.5	3119.9	3132.2	3132.2	3124.0	3128.1	3128.1	3115.7
10°	3099.3	3087.0	3099.3	3099.3	3078.8	3082.9	3091.1	3087.0	3103.4	3124.0	3124.0
12.5°	3045.9	3033.5	3054.1	3054.1	3041.8	3058.2	3078.8	3091.1	3107.5	3115.7	3091.1
15°	2980.1	2984.2	3021.2	3050.0	3037.6	3062.3	3082.9	3074.6	3054.1	3029.4	2992.4
17.5°	2893.8	2881.5	2914.3	2930.8	2914.3	2922.6	2939.0	2922.6	2889.7	2869.1	2819.8
20°	2795.1	2762.2	2762.2	2754.0	2725.3	2725.3	2721.1	2692.4	2680.0	2667.7	2647.2
22.5°	2684.1	2647.2	2634.8	2610.2	2585.5	2581.4	2569.1	2540.3	2523.8	2515.6	2491.0
25°	2556.7	2523.8	2503.3	2478.6	2441.6	2433.4	2421.1	2392.3	2384.1	2371.8	2351.2
27.5°	2425.2	2384.1	2355.3	2330.6	2297.8	2293.7	2269.0	2248.4	2232.0	2223.8	2207.3
30°	2273.1	2227.9	2207.3	2174.4	2149.8	2141.6	2121.0	2092.2	2079.9	2071.7	2059.4
32.5°	2104.6	2067.6	2047.0	2018.2	1985.4	1989.5	1964.8	1940.1	1931.9	1923.7	1911.4
35°	1940.1	1903.2	1878.5	1853.8	1833.3	1825.1	1808.6	1788.1	1775.7	1771.6	1763.4
37.5°	1759.3	1730.5	1710.0	1685.3	1668.9	1660.6	1652.4	1631.9	1623.6	1623.6	1607.2
40°	1582.5	1557.9	1541.4	1529.1	1508.5	1504.4	1496.2	1483.9	1479.8	1475.7	1463.3
42.5°	1422.2	1389.3	1377.0	1368.8	1356.5	1348.2	1344.1	1335.9	1331.8	1327.7	1315.4
45°	1270.1	1241.4	1229.0	1220.8	1208.5	1204.4	1200.3	1187.9	1179.7	1171.5	1167.4
47.5°	1122.2	1101.6	1097.5	1076.9	1068.7	1060.5	1052.3	1044.1	1040.0	1035.8	1019.4
50°	994.7	982.4	961.9	949.5	941.3	937.2	920.7	908.4	904.3	900.2	887.9
52.5°	879.6	863.2	850.9	830.3	826.2	818.0	809.8	793.3	785.1	781.0	768.7
55°	776.9	764.6	748.1	731.7	719.3	715.2	702.9	686.5	678.2	670.0	661.8
57.5°	690.6	670.0	653.6	637.1	628.9	616.6	604.2	596.0	583.7	571.4	559.0
60°	608.4	591.9	571.4	554.9	546.7	538.5	522.0	509.7	497.4	485.0	472.7
62.5°	530.3	513.8	493.3	476.8	468.6	460.4	443.9	431.6	419.3	406.9	390.5
65°	460.4	443.9	427.5	411.0	402.8	394.6	378.2	361.7	349.4	337.1	320.6
67.5°	402.8	382.3	365.8	349.4	341.2	332.9	316.5	304.2	287.7	275.4	259.0
70°	341.2	324.7	312.4	296.0	287.7	279.5	263.1	246.6	234.3	222.0	205.5
72.5°	287.7	267.2	254.9	238.4	230.2	226.1	209.6	197.3	185.0	168.5	156.2
75°	230.2	213.7	197.3	185.0	176.8	172.6	156.2	143.9	131.5	119.2	106.9
77.5°	176.8	164.4	148.0	135.6	127.4	123.3	106.9	94.5	82.2	74.0	61.7
80°	131.5	115.1	106.9	94.5	90.4	82.2	74.0	61.7	53.4	41.1	32.9
82.5°	90.4	78.1	69.9	61.7	57.5	53.4	45.2	37.0	28.8	24.7	20.6
85°	49.3	41.1	37.0	32.9	28.8	28.8	24.7	20.6	16.4	12.3	8.2
87.5°	16.4	12.3	12.3	12.3	12.3	8.2	8.2	8.2	4.1	4.1	4.1
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1
2.5°	3161.0	3161.0	3161.0	3156.9	3156.9	3156.9	3152.7	3169.2	3152.7	3148.6	3161.0
5°	3156.9	3148.6	3148.6	3148.6	3148.6	3144.5	3140.4	3148.6	3136.3	3132.2	3132.2
7.5°	3132.2	3128.1	3128.1	3124.0	3119.9	3115.7	3111.6	3115.7	3103.4	3099.3	3099.3
10°	3136.3	3128.1	3128.1	3115.7	3107.5	3095.2	3082.9	3087.0	3070.5	3058.2	3058.2
12.5°	3087.0	3066.4	3054.1	3041.8	3033.5	3029.4	3013.0	3021.2	3004.8	3000.7	3000.7
15°	2976.0	2951.3	2930.8	2922.6	2922.6	2914.3	2902.0	2918.4	2910.2	2914.3	2934.9
17.5°	2803.4	2791.0	2778.7	2774.6	2778.7	2786.9	2795.1	2819.8	2819.8	2832.1	2852.7
20°	2651.3	2643.0	2651.3	2651.3	2655.4	2671.8	2688.3	2708.8	2717.0	2729.4	2758.1
22.5°	2503.3	2503.3	2511.5	2523.8	2519.7	2548.5	2552.6	2589.6	2589.6	2614.3	2638.9
25°	2359.4	2359.4	2367.6	2371.8	2380.0	2396.4	2412.9	2441.6	2449.8	2474.5	2495.1
27.5°	2219.7	2215.6	2215.6	2219.7	2227.9	2248.4	2256.7	2289.5	2301.9	2318.3	2338.9
30°	2063.5	2059.4	2067.6	2075.8	2071.7	2092.2	2104.6	2129.2	2137.5	2153.9	2170.3
32.5°	1915.5	1915.5	1915.5	1923.7	1923.7	1940.1	1940.1	1968.9	1968.9	1981.3	1997.7
35°	1763.4	1763.4	1767.5	1771.6	1775.7	1779.8	1784.0	1800.4	1804.5	1808.6	1816.8
37.5°	1619.5	1615.4	1619.5	1619.5	1611.3	1627.8	1627.8	1644.2	1631.9	1644.2	1648.3
40°	1471.6	1471.6	1467.4	1467.4	1467.4	1475.7	1467.4	1479.8	1471.6	1479.8	1475.7
42.5°	1319.5	1319.5	1311.2	1319.5	1315.4	1315.4	1315.4	1323.6	1311.2	1319.5	1323.6
45°	1167.4	1163.3	1163.3	1159.2	1159.2	1159.2	1163.3	1163.3	1159.2	1167.4	1167.4
47.5°	1019.4	1015.3	1015.3	1015.3	1015.3	1019.4	1007.1	1015.3	1007.1	1007.1	1007.1
50°	892.0	887.9	883.8	879.6	875.5	875.5	871.4	871.4	863.2	859.1	855.0
52.5°	768.7	764.6	756.3	756.3	752.2	748.1	735.8	735.8	723.4	719.3	719.3
55°	657.7	645.3	641.2	633.0	633.0	624.8	616.6	608.4	596.0	587.8	587.8
57.5°	554.9	542.6	534.4	530.3	526.1	517.9	501.5	497.4	480.9	476.8	472.7
60°	464.5	452.2	439.8	431.6	427.5	415.2	398.7	390.5	382.3	369.9	357.6
62.5°	378.2	365.8	349.4	345.3	337.1	324.7	312.4	300.1	291.8	279.5	271.3
65°	304.2	291.8	279.5	271.3	263.1	250.7	238.4	226.1	217.9	213.7	209.6
67.5°	246.6	230.2	217.9	213.7	205.5	197.3	185.0	180.9	172.6	172.6	172.6
70°	193.2	180.9	168.5	164.4	160.3	152.1	143.9	143.9	143.9	143.9	143.9
72.5°	143.9	135.6	123.3	119.2	115.1	111.0	102.8	106.9	102.8	102.8	102.8
75°	90.4	82.2	74.0	69.9	65.8	61.7	57.5	53.4	49.3	45.2	45.2
77.5°	49.3	41.1	37.0	32.9	32.9	28.8	24.7	24.7	20.6	20.6	20.6
80°	28.8	24.7	20.6	16.4	16.4	12.3	12.3	12.3	12.3	8.2	8.2
82.5°	16.4	12.3	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	4.1
85°	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	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	0.0	0.0	0.0





TEST NUMBER: P252437

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1
2.5°	3140.4	3152.7	3140.4	3152.7	3152.7	3152.7	3152.7	3140.4
5°	3119.9	3128.1	3115.7	3124.0	3128.1	3124.0	3124.0	3111.6
7.5°	3082.9	3091.1	3078.8	3091.1	3095.2	3091.1	3087.0	3078.8
10°	3045.9	3050.0	3037.6	3045.9	3054.1	3054.1	3050.0	3037.6
12.5°	2988.3	3000.7	2988.3	2996.5	3004.8	3008.9	3008.9	2996.5
15°	2922.6	2943.1	2934.9	2947.2	2959.5	2963.7	2963.7	2959.5
17.5°	2856.8	2877.3	2865.0	2885.6	2897.9	2906.1	2910.2	2902.0
20°	2762.2	2786.9	2778.7	2795.1	2811.6	2823.9	2823.9	2811.6
22.5°	2638.9	2671.8	2667.7	2680.0	2700.6	2704.7	2712.9	2704.7
25°	2503.3	2527.9	2523.8	2536.2	2560.8	2560.8	2564.9	2564.9
27.5°	2347.1	2371.8	2367.6	2375.9	2392.3	2396.4	2400.5	2392.3
30°	2178.6	2190.9	2190.9	2203.2	2215.6	2219.7	2219.7	2207.3
32.5°	1993.6	2010.0	2018.2	2014.1	2026.5	2034.7	2030.6	2030.6
35°	1825.1	1829.2	1833.3	1837.4	1841.5	1849.7	1841.5	1837.4
37.5°	1644.2	1656.5	1648.3	1656.5	1664.7	1660.6	1656.5	1656.5
40°	1479.8	1483.9	1475.7	1483.9	1488.0	1488.0	1488.0	1479.8
42.5°	1315.4	1323.6	1315.4	1323.6	1323.6	1323.6	1323.6	1319.5
45°	1150.9	1159.2	1159.2	1163.3	1163.3	1159.2	1159.2	1159.2
47.5°	998.8	1007.1	998.8	1007.1	1011.2	1003.0	1003.0	1003.0
50°	855.0	850.9	850.9	855.0	855.0	855.0	855.0	850.9
52.5°	707.0	711.1	711.1	711.1	715.2	711.1	715.2	715.2
55°	579.6	579.6	579.6	583.7	579.6	579.6	583.7	587.8
57.5°	464.5	460.4	456.3	456.3	460.4	456.3	456.3	456.3
60°	357.6	353.5	349.4	349.4	349.4	349.4	349.4	345.3
62.5°	267.2	267.2	267.2	271.3	271.3	271.3	271.3	275.4
65°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	217.9
67.5°	172.6	172.6	172.6	176.8	176.8	176.8	176.8	176.8
70°	143.9	143.9	148.0	143.9	148.0	148.0	148.0	148.0
72.5°	98.7	98.7	98.7	98.7	98.7	94.5	98.7	94.5
75°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	37.0
77.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	0.0	0.0	0.0
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)