

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: P252749

Luminaire Tested: **LD6B70D010TE EU6B60709050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60709050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 5767.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

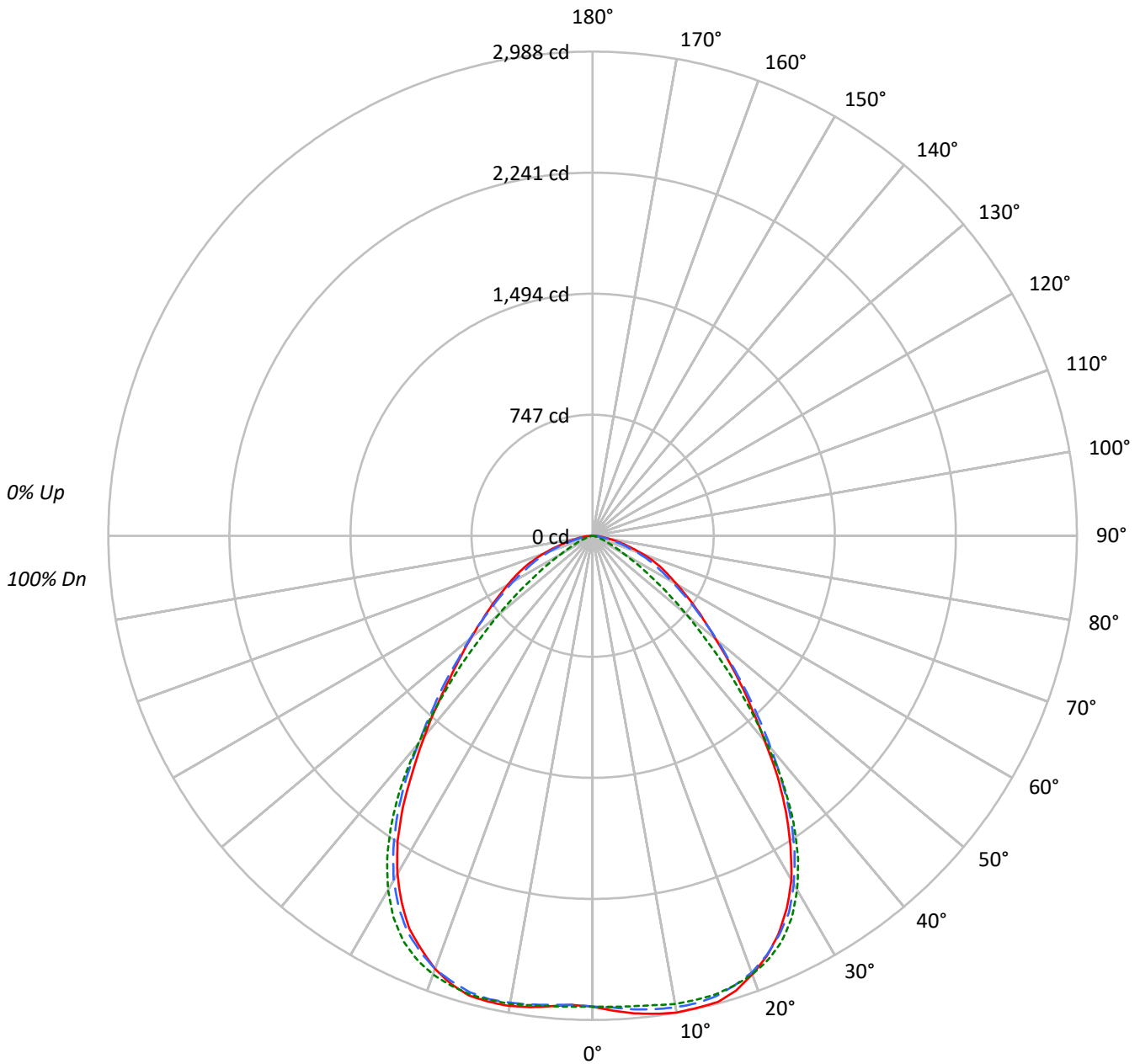
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	189557	189557	189557
5°	193784	190824	190824
10°	197926	194389	195204
15°	201242	197912	198466
20°	200014	200014	197445
25°	195252	198801	192589
30°	184830	190089	181425
35°	165620	172167	162347
40°	140702	142448	137202
45°	119058	108826	114887
50°	100522	76752	99274
55°	88345	49547	87412
60°	78289	29489	78824
65°	72324	17768	72324
70°	62719	10186	61155
75°	49733	6226	46608
80°	37045	4621	35504
85°	33835	3069	30765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.7	4.9
10°-20°	827.9	14.4
20°-30°	1245.1	21.6
30°-40°	1309.1	22.7
40°-50°	978.0	17.0
50°-60°	608.8	10.6
60°-70°	346.3	6.0
70°-80°	142.6	2.5
80°-90°	29.5	0.5
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°	2352.8	40.8
0°-40°	3661.9	63.5
0°-60°	5248.7	91.0
0°-90°	5767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5767.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2906	2906	2906	2906	2906	
5°	2959	2934	2914	2906	2914	283
15°	2980	2942	2930	2918	2938	838
25°	2712	2721	2762	2700	2675	1242
35°	2080	2133	2162	2100	2038	1290
45°	1290	1319	1180	1294	1245	1000
55°	777	760	436	748	768	699
65°	468	419	115	419	468	461
75°	197	156	25	152	185	214
85°	45	29	4	25	41	50
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°	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5
2.5°	2934.3	2930.2	2934.3	2926.1	2922.0	2922.0	2926.1	2917.9	2913.8	2917.9	2913.8
5°	2959.0	2950.7	2954.9	2950.7	2942.5	2942.5	2946.6	2934.3	2934.3	2938.4	2934.3
7.5°	2975.4	2975.4	2975.4	2967.2	2963.1	2959.0	2967.2	2954.9	2950.7	2950.7	2946.6
10°	2987.7	2983.6	2987.7	2979.5	2971.3	2967.2	2975.4	2967.2	2959.0	2967.2	2954.9
12.5°	2983.6	2983.6	2983.6	2979.5	2971.3	2967.2	2975.4	2963.1	2959.0	2963.1	2954.9
15°	2979.5	2967.2	2971.3	2967.2	2954.9	2954.9	2959.0	2946.6	2938.4	2950.7	2942.5
17.5°	2942.5	2934.3	2938.4	2930.2	2922.0	2917.9	2922.0	2917.9	2909.6	2917.9	2909.6
20°	2880.9	2880.9	2885.0	2876.8	2868.6	2864.4	2872.7	2864.4	2856.2	2868.6	2868.6
22.5°	2806.9	2806.9	2806.9	2802.8	2798.7	2798.7	2798.7	2794.6	2790.5	2798.7	2802.8
25°	2712.4	2708.3	2712.4	2716.5	2712.4	2708.3	2712.4	2712.4	2704.2	2720.6	2720.6
27.5°	2593.2	2593.2	2601.4	2597.3	2597.3	2593.2	2601.4	2601.4	2597.3	2609.6	2622.0
30°	2453.5	2445.3	2453.5	2453.5	2457.6	2457.6	2461.7	2461.7	2461.7	2474.0	2482.2
32.5°	2272.6	2276.8	2289.1	2285.0	2280.9	2293.2	2293.2	2301.4	2305.5	2313.7	2317.9
35°	2079.5	2083.6	2083.6	2087.7	2095.9	2087.7	2108.3	2104.2	2108.3	2124.7	2132.9
37.5°	1874.0	1861.7	1882.2	1874.0	1878.1	1878.1	1886.3	1890.4	1902.8	1923.3	1923.3
40°	1652.1	1656.2	1664.4	1668.5	1672.6	1672.6	1672.6	1685.0	1689.1	1713.7	1709.6
42.5°	1458.9	1458.9	1467.2	1471.3	1471.3	1471.3	1471.3	1483.6	1491.8	1500.0	1508.2
45°	1290.4	1278.1	1286.3	1286.3	1294.5	1290.4	1298.7	1306.9	1311.0	1323.3	1319.2
47.5°	1130.2	1126.1	1130.2	1134.3	1130.2	1134.3	1138.4	1142.5	1146.6	1146.6	1146.6
50°	990.4	990.4	994.5	998.7	998.7	998.7	998.7	1002.8	1002.8	1011.0	1002.8
52.5°	875.4	879.5	879.5	875.4	879.5	879.5	883.6	883.6	879.5	879.5	867.1
55°	776.7	772.6	776.7	772.6	776.7	776.7	772.6	772.6	768.5	764.4	760.3
57.5°	682.2	682.2	682.2	682.2	678.1	682.2	678.1	674.0	674.0	665.8	653.4
60°	600.0	600.0	600.0	600.0	600.0	595.9	600.0	595.9	587.7	579.5	563.0
62.5°	530.1	526.0	530.1	526.0	526.0	521.9	521.9	517.8	509.6	501.4	484.9
65°	468.5	472.6	468.5	468.5	464.4	460.3	460.3	456.2	443.8	435.6	419.2
67.5°	402.7	398.6	398.6	398.6	394.5	394.5	394.5	386.3	378.1	365.8	349.3
70°	328.8	328.8	328.8	324.7	324.7	320.6	320.6	316.4	308.2	300.0	279.5
72.5°	258.9	258.9	258.9	250.7	254.8	250.7	250.7	242.5	238.4	226.0	213.7
75°	197.3	197.3	193.2	193.2	189.0	184.9	184.9	180.8	176.7	168.5	156.2
77.5°	143.8	143.8	143.8	139.7	135.6	131.5	131.5	127.4	123.3	119.2	111.0
80°	98.6	98.6	98.6	98.6	94.5	90.4	90.4	86.3	86.3	82.2	74.0
82.5°	65.8	65.8	65.8	65.8	61.6	61.6	61.6	57.5	53.4	53.4	45.2
85°	45.2	45.2	41.1	41.1	41.1	41.1	37.0	37.0	32.9	28.8	28.8
87.5°	24.7	24.7	24.7	24.7	20.5	20.5	20.5	20.5	16.4	16.4	12.3
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°	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5
2.5°	2926.1	2926.1	2922.0	2909.6	2913.8	2909.6	2913.8	2909.6	2897.3	2909.6	2897.3
5°	2942.5	2946.6	2938.4	2922.0	2926.1	2922.0	2922.0	2917.9	2905.5	2913.8	2905.5
7.5°	2959.0	2954.9	2950.7	2934.3	2938.4	2934.3	2934.3	2926.1	2913.8	2922.0	2909.6
10°	2967.2	2967.2	2959.0	2942.5	2942.5	2938.4	2942.5	2938.4	2922.0	2934.3	2926.1
12.5°	2967.2	2963.1	2963.1	2942.5	2946.6	2942.5	2946.6	2938.4	2926.1	2934.3	2930.2
15°	2954.9	2954.9	2950.7	2930.2	2934.3	2934.3	2938.4	2930.2	2917.9	2930.2	2922.0
17.5°	2930.2	2930.2	2926.1	2909.6	2917.9	2917.9	2922.0	2913.8	2901.4	2909.6	2909.6
20°	2880.9	2885.0	2885.0	2872.7	2880.9	2880.9	2885.0	2880.9	2876.8	2880.9	2872.7
22.5°	2823.3	2831.6	2831.6	2819.2	2827.5	2827.5	2839.8	2835.7	2827.5	2831.6	2827.5
25°	2737.0	2745.3	2753.5	2745.3	2753.5	2753.5	2765.8	2761.7	2753.5	2761.7	2749.4
27.5°	2638.4	2642.5	2650.7	2642.5	2654.8	2650.7	2663.1	2659.0	2646.6	2659.0	2654.8
30°	2498.7	2515.1	2527.4	2515.1	2527.4	2527.4	2535.7	2531.6	2527.4	2523.3	2523.3
32.5°	2342.5	2359.0	2359.0	2354.8	2363.1	2363.1	2367.2	2359.0	2354.8	2359.0	2363.1
35°	2149.4	2157.6	2165.8	2161.7	2165.8	2169.9	2165.8	2169.9	2157.6	2161.7	2161.7
37.5°	1939.8	1948.0	1948.0	1935.7	1943.9	1943.9	1935.7	1935.7	1927.4	1935.7	1919.2
40°	1717.8	1709.6	1713.7	1705.5	1697.3	1697.3	1693.2	1676.7	1668.5	1672.6	1676.7
42.5°	1500.0	1500.0	1487.7	1467.2	1446.6	1446.6	1434.3	1426.1	1409.6	1417.8	1413.7
45°	1315.1	1294.5	1278.1	1245.2	1232.9	1224.7	1204.1	1183.6	1175.4	1179.5	1175.4
47.5°	1138.4	1121.9	1080.8	1035.6	1023.3	1011.0	986.3	961.7	953.4	945.2	945.2
50°	990.4	961.7	916.5	867.1	846.6	826.0	793.2	768.5	752.1	756.2	756.2
52.5°	854.8	821.9	768.5	706.9	682.2	657.5	628.8	600.0	587.7	583.6	583.6
55°	735.6	698.6	645.2	575.4	554.8	526.0	489.1	456.2	439.7	435.6	443.8
57.5°	628.8	595.9	534.3	464.4	439.7	411.0	374.0	345.2	324.7	320.6	324.7
60°	542.5	497.3	443.8	378.1	345.2	320.6	279.5	254.8	234.3	226.0	230.1
62.5°	456.2	415.1	361.7	295.9	271.2	246.6	209.6	180.8	164.4	160.3	164.4
65°	390.4	349.3	300.0	242.5	217.8	193.2	160.3	131.5	119.2	115.1	119.2
67.5°	324.7	287.7	246.6	193.2	172.6	152.1	119.2	98.6	82.2	78.1	82.2
70°	263.0	230.1	189.0	152.1	131.5	115.1	90.4	69.9	57.5	53.4	57.5
72.5°	197.3	172.6	143.8	111.0	98.6	86.3	65.8	49.3	41.1	37.0	41.1
75°	143.8	123.3	102.7	78.1	69.9	61.6	45.2	32.9	28.8	24.7	28.8
77.5°	98.6	86.3	69.9	53.4	45.2	41.1	28.8	24.7	20.5	16.4	16.4
80°	65.8	57.5	45.2	37.0	32.9	28.8	20.5	16.4	12.3	12.3	12.3
82.5°	41.1	32.9	28.8	20.5	16.4	16.4	12.3	8.2	8.2	8.2	8.2
85°	24.7	20.5	16.4	12.3	8.2	8.2	4.1	4.1	4.1	4.1	4.1
87.5°	12.3	8.2	8.2	4.1	4.1	4.1	4.1	4.1	0.0	0.0	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°	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5
2.5°	2905.5	2897.3	2897.3	2901.4	2905.5	2909.6	2901.4	2897.3	2897.3	2909.6	2901.4
5°	2905.5	2901.4	2901.4	2901.4	2909.6	2913.8	2905.5	2901.4	2905.5	2917.9	2913.8
7.5°	2917.9	2909.6	2913.8	2913.8	2917.9	2926.1	2917.9	2913.8	2917.9	2930.2	2922.0
10°	2926.1	2917.9	2922.0	2917.9	2930.2	2934.3	2926.1	2922.0	2926.1	2942.5	2938.4
12.5°	2930.2	2926.1	2926.1	2922.0	2934.3	2938.4	2930.2	2926.1	2930.2	2942.5	2938.4
15°	2922.0	2917.9	2917.9	2917.9	2926.1	2934.3	2922.0	2917.9	2917.9	2930.2	2926.1
17.5°	2905.5	2897.3	2897.3	2897.3	2901.4	2905.5	2893.2	2889.1	2885.0	2897.3	2893.2
20°	2876.8	2868.6	2860.3	2860.3	2864.4	2864.4	2856.2	2843.9	2843.9	2848.0	2839.8
22.5°	2823.3	2819.2	2811.0	2806.9	2815.1	2811.0	2794.6	2782.2	2778.1	2782.2	2774.0
25°	2749.4	2741.2	2737.0	2732.9	2737.0	2732.9	2716.5	2700.1	2700.1	2700.1	2687.7
27.5°	2646.6	2638.4	2634.3	2634.3	2638.4	2630.2	2613.8	2597.3	2589.1	2589.1	2576.8
30°	2515.1	2515.1	2511.0	2506.9	2502.8	2502.8	2478.1	2461.7	2453.5	2457.6	2449.4
32.5°	2354.8	2350.7	2346.6	2334.3	2338.4	2334.3	2313.7	2301.4	2289.1	2280.9	2276.8
35°	2149.4	2149.4	2145.2	2145.2	2145.2	2141.1	2120.6	2108.3	2100.0	2095.9	2083.6
37.5°	1923.3	1919.2	1915.1	1915.1	1915.1	1915.1	1902.8	1890.4	1890.4	1886.3	1878.1
40°	1668.5	1672.6	1676.7	1672.6	1685.0	1697.3	1680.9	1672.6	1668.5	1680.9	1664.4
42.5°	1421.9	1417.8	1438.4	1442.5	1442.5	1463.0	1467.2	1471.3	1467.2	1475.4	1475.4
45°	1183.6	1179.5	1200.0	1208.2	1228.8	1253.4	1265.8	1286.3	1294.5	1302.8	1294.5
47.5°	957.6	974.0	990.4	1011.0	1027.4	1068.5	1093.2	1113.7	1121.9	1134.3	1134.3
50°	768.5	784.9	813.7	830.2	850.7	900.0	941.1	969.9	986.3	998.7	994.5
52.5°	591.8	620.6	657.5	674.0	702.8	760.3	805.5	838.4	858.9	871.3	875.4
55°	456.2	480.8	517.8	542.5	571.2	632.9	690.4	727.4	748.0	764.4	772.6
57.5°	337.0	365.8	406.9	427.4	460.3	530.1	579.5	624.7	649.3	669.9	674.0
60°	246.6	275.3	312.3	337.0	369.9	439.7	497.3	538.4	567.1	583.6	591.8
62.5°	176.7	205.5	242.5	267.1	295.9	357.5	415.1	456.2	484.9	505.5	517.8
65°	127.4	156.2	193.2	213.7	238.4	295.9	349.3	390.4	419.2	443.8	452.1
67.5°	94.5	115.1	147.9	168.5	193.2	238.4	283.6	320.6	349.3	369.9	378.1
70°	69.9	86.3	115.1	127.4	143.8	184.9	221.9	254.8	279.5	295.9	304.1
72.5°	49.3	61.6	82.2	94.5	106.9	139.7	168.5	193.2	209.6	226.0	234.3
75°	32.9	41.1	57.5	65.8	74.0	98.6	119.2	139.7	152.1	164.4	168.5
77.5°	20.5	28.8	41.1	45.2	53.4	65.8	82.2	94.5	102.7	111.0	119.2
80°	12.3	16.4	24.7	28.8	32.9	45.2	53.4	61.6	69.9	78.1	82.2
82.5°	8.2	12.3	16.4	16.4	20.5	24.7	32.9	41.1	45.2	49.3	53.4
85°	4.1	4.1	8.2	8.2	12.3	12.3	16.4	20.5	24.7	28.8	32.9
87.5°	4.1	4.1	4.1	4.1	8.2	8.2	12.3	12.3	12.3	16.4	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



TEST NUMBER: P252749

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5	2905.5
2.5°	2893.2	2905.5	2893.2	2901.4	2897.3	2897.3	2893.2	2897.3
5°	2905.5	2922.0	2905.5	2917.9	2909.6	2909.6	2909.6	2913.8
7.5°	2917.9	2934.3	2922.0	2934.3	2930.2	2926.1	2926.1	2934.3
10°	2930.2	2942.5	2934.3	2946.6	2942.5	2938.4	2938.4	2946.6
12.5°	2930.2	2946.6	2938.4	2950.7	2946.6	2942.5	2942.5	2946.6
15°	2917.9	2938.4	2926.1	2938.4	2934.3	2930.2	2930.2	2938.4
17.5°	2880.9	2897.3	2889.1	2897.3	2897.3	2893.2	2897.3	2901.4
20°	2831.6	2843.9	2835.7	2843.9	2843.9	2835.7	2839.8	2843.9
22.5°	2761.7	2774.0	2765.8	2774.0	2769.9	2765.8	2765.8	2761.7
25°	2675.4	2691.8	2679.5	2687.7	2679.5	2671.3	2671.3	2675.4
27.5°	2568.5	2580.9	2564.4	2572.7	2564.4	2556.2	2556.2	2552.1
30°	2428.8	2432.9	2420.6	2428.8	2420.6	2416.5	2408.3	2408.3
32.5°	2260.3	2264.4	2252.1	2252.1	2243.9	2243.9	2227.4	2239.8
35°	2063.1	2067.2	2063.1	2058.9	2046.6	2042.5	2038.4	2038.4
37.5°	1857.6	1857.6	1845.2	1841.1	1832.9	1824.7	1828.8	1816.5
40°	1648.0	1643.9	1631.5	1635.6	1631.5	1619.2	1615.1	1611.0
42.5°	1450.7	1450.7	1438.4	1442.5	1434.3	1430.2	1417.8	1421.9
45°	1278.1	1278.1	1265.8	1265.8	1261.7	1249.3	1253.4	1245.2
47.5°	1121.9	1121.9	1117.8	1117.8	1105.5	1101.4	1101.4	1101.4
50°	986.3	986.3	986.3	986.3	982.2	978.1	974.0	978.1
52.5°	871.3	879.5	875.4	875.4	871.3	867.1	863.0	863.0
55°	768.5	772.6	772.6	776.7	772.6	768.5	772.6	768.5
57.5°	678.1	686.3	686.3	686.3	686.3	686.3	682.2	678.1
60°	600.0	604.1	604.1	608.2	608.2	608.2	604.1	604.1
62.5°	521.9	530.1	534.3	534.3	538.4	534.3	534.3	534.3
65°	460.3	468.5	472.6	468.5	472.6	472.6	468.5	468.5
67.5°	386.3	394.5	394.5	394.5	394.5	398.6	394.5	394.5
70°	312.3	320.6	316.4	320.6	320.6	320.6	320.6	320.6
72.5°	238.4	242.5	246.6	246.6	250.7	246.6	246.6	246.6
75°	172.6	180.8	180.8	180.8	180.8	184.9	184.9	184.9
77.5°	123.3	127.4	127.4	131.5	131.5	131.5	131.5	135.6
80°	86.3	86.3	90.4	90.4	94.5	94.5	94.5	94.5
82.5°	57.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6
85°	32.9	37.0	37.0	37.0	37.0	41.1	41.1	41.1
87.5°	20.5	20.5	20.5	20.5	20.5	20.5	16.4	16.4
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)