

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: P252632

Luminaire Tested: **LD6B60D010TE EU6B60709050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60709050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 5188.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

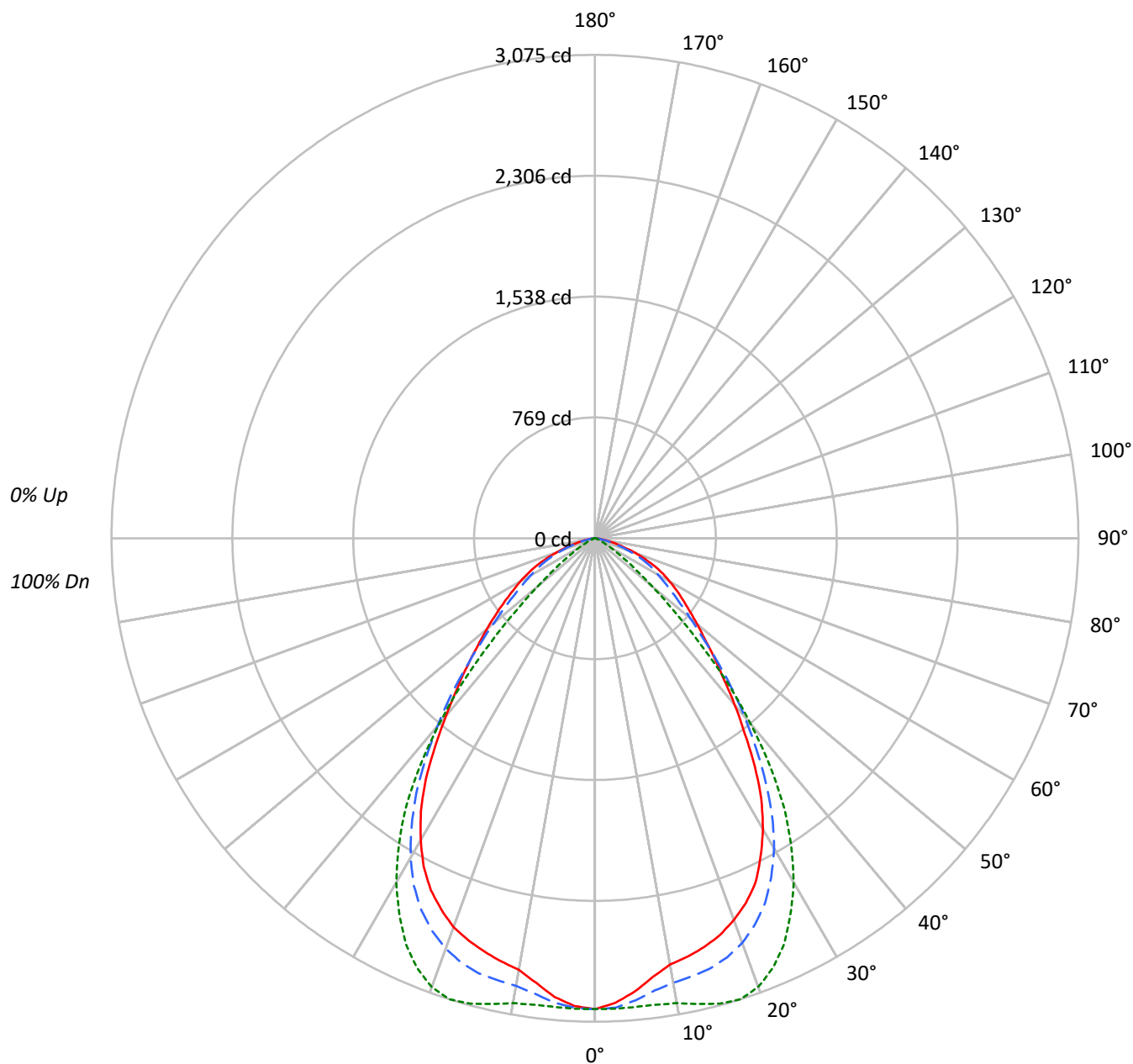
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86
3	96	88	81	76	94	86	80	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	195415	195415	195415
5°	189587	195932	191852
10°	182372	198887	184664
15°	181729	206983	183829
20°	179345	210838	182713
25°	173988	204898	177731
30°	160950	190428	166954
35°	141201	167404	149476
40°	117665	131232	125338
45°	99046	86581	105753
50°	85754	47450	91032
55°	77596	25206	79564
60°	71386	13100	71386
65°	64682	6947	63077
70°	52189	3968	48222
75°	35794	2622	33172
80°	23406	1315	20814
85°	15570	2620	12950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	5.4
10°-20°	807.6	15.6
20°-30°	1193.3	23.0
30°-40°	1205.3	23.2
40°-50°	830.8	16.0
50°-60°	477.1	9.2
60°-70°	277.7	5.4
70°-80°	101.3	2.0
80°-90°	15.5	0.3
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°	2280.3	44.0
0°-40°	3485.6	67.2
0°-60°	4793.5	92.4
0°-90°	5188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5188.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2995	2995	2995	2995	2995	
5°	2895	2950	2992	2964	2930	272
15°	2691	2832	3064	2864	2722	758
25°	2417	2559	2846	2611	2469	1101
35°	1773	1894	2102	1981	1877	1100
45°	1074	1087	938	1157	1146	835
55°	682	599	222	623	700	614
65°	419	353	45	350	409	410
75°	142	114	10	111	132	160
85°	21	10	4	14	17	26
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°	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3
2.5°	2957.2	2960.7	2964.1	2960.7	2964.1	2978.0	2967.6	2974.5	2974.5	2978.0	2988.4
5°	2894.9	2894.9	2901.8	2898.3	2908.7	2922.6	2912.2	2922.6	2926.0	2933.0	2950.3
7.5°	2815.2	2815.2	2818.7	2818.7	2832.5	2846.4	2839.5	2853.3	2867.2	2881.0	2901.8
10°	2752.9	2759.8	2759.8	2763.3	2777.1	2794.5	2791.0	2808.3	2822.2	2842.9	2870.6
12.5°	2725.2	2728.7	2728.7	2735.6	2749.4	2766.7	2763.3	2780.6	2801.4	2825.6	2853.3
15°	2690.6	2697.5	2694.0	2701.0	2714.8	2732.1	2728.7	2746.0	2770.2	2794.5	2832.5
17.5°	2645.6	2649.0	2652.5	2652.5	2666.3	2680.2	2680.2	2697.5	2725.2	2752.9	2794.5
20°	2583.2	2590.1	2590.1	2593.6	2604.0	2624.8	2621.3	2638.6	2666.3	2694.0	2739.0
22.5°	2510.5	2514.0	2514.0	2517.4	2534.7	2545.1	2548.6	2562.4	2586.7	2617.8	2659.4
25°	2417.0	2420.5	2417.0	2427.4	2434.3	2455.1	2448.2	2465.5	2493.2	2517.4	2559.0
27.5°	2282.0	2288.9	2288.9	2292.3	2309.7	2327.0	2327.0	2344.3	2368.5	2385.8	2427.4
30°	2136.5	2146.9	2136.5	2153.8	2160.8	2174.6	2185.0	2195.4	2216.2	2240.4	2278.5
32.5°	1970.3	1966.8	1970.3	1977.2	1998.0	2008.4	2015.3	2025.7	2046.5	2067.3	2098.4
35°	1772.9	1779.9	1783.3	1797.2	1797.2	1814.5	1818.0	1824.9	1856.0	1869.9	1894.1
37.5°	1565.2	1572.1	1575.6	1582.5	1596.3	1603.3	1613.6	1624.0	1644.8	1669.1	1682.9
40°	1381.6	1381.6	1385.1	1392.0	1402.4	1405.9	1416.3	1430.1	1444.0	1464.7	1478.6
42.5°	1208.5	1212.0	1208.5	1215.4	1225.8	1239.7	1236.2	1253.5	1257.0	1270.8	1281.2
45°	1073.5	1073.5	1066.5	1073.5	1073.5	1087.3	1083.8	1090.8	1087.3	1094.2	1087.3
47.5°	945.3	948.8	945.3	948.8	948.8	948.8	952.3	945.3	948.8	938.4	917.6
50°	844.9	848.4	841.5	844.9	841.5	838.0	841.5	831.1	827.6	813.7	793.0
52.5°	758.3	754.9	751.4	751.4	751.4	748.0	744.5	734.1	723.7	709.9	685.6
55°	682.2	678.7	675.2	675.2	668.3	664.9	664.9	654.5	644.1	626.8	599.1
57.5°	612.9	609.4	606.0	606.0	602.5	595.6	595.6	585.2	571.4	550.6	526.3
60°	547.1	547.1	547.1	543.7	543.7	536.7	536.7	526.3	512.5	491.7	464.0
62.5°	488.2	484.8	484.8	484.8	484.8	481.3	477.9	470.9	457.1	436.3	412.1
65°	419.0	419.0	419.0	419.0	415.5	415.5	415.5	405.1	398.2	377.4	353.2
67.5°	342.8	342.8	342.8	342.8	339.4	342.8	342.8	335.9	329.0	308.2	287.4
70°	273.6	270.1	266.6	270.1	266.6	266.6	270.1	263.2	259.7	242.4	221.6
72.5°	200.8	204.3	200.8	200.8	200.8	197.4	200.8	197.4	190.5	176.6	162.7
75°	142.0	145.4	145.4	142.0	142.0	142.0	138.5	138.5	131.6	121.2	114.3
77.5°	97.0	97.0	97.0	97.0	93.5	93.5	93.5	90.0	86.6	79.6	72.7
80°	62.3	62.3	62.3	62.3	58.9	58.9	58.9	55.4	55.4	48.5	41.6
82.5°	38.1	38.1	38.1	38.1	38.1	38.1	34.6	34.6	31.2	27.7	24.2
85°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	17.3	17.3	13.9	10.4
87.5°	6.9	6.9	10.4	10.4	10.4	10.4	10.4	10.4	6.9	6.9	6.9
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°	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3
2.5°	2981.4	2984.9	2984.9	2984.9	2995.3	2998.8	2988.4	2978.0	2998.8	2995.3	3002.2
5°	2946.8	2957.2	2964.1	2967.6	2978.0	2984.9	2974.5	2971.1	2988.4	2991.8	2995.3
7.5°	2905.3	2922.6	2939.9	2946.8	2960.7	2967.6	2964.1	2964.1	2984.9	2991.8	2991.8
10°	2877.6	2901.8	2922.6	2939.9	2957.2	2967.6	2967.6	2971.1	2995.3	3002.2	3009.1
12.5°	2870.6	2901.8	2929.5	2953.7	2967.6	2984.9	2988.4	2998.8	3023.0	3033.4	3033.4
15°	2853.3	2894.9	2929.5	2960.7	2981.4	3002.2	3009.1	3029.9	3057.6	3064.5	3071.5
17.5°	2822.2	2863.7	2905.3	2943.3	2971.1	2988.4	3009.1	3029.9	3064.5	3074.9	3078.4
20°	2766.7	2815.2	2856.8	2894.9	2922.6	2946.8	2967.6	2991.8	3023.0	3036.8	3040.3
22.5°	2683.6	2732.1	2773.7	2815.2	2842.9	2863.7	2884.5	2912.2	2943.3	2957.2	2957.2
25°	2583.2	2628.2	2673.3	2704.4	2732.1	2756.4	2766.7	2797.9	2829.1	2846.4	2846.4
27.5°	2455.1	2496.7	2538.2	2572.8	2590.1	2610.9	2628.2	2655.9	2680.2	2694.0	2707.9
30°	2292.3	2333.9	2372.0	2406.6	2427.4	2448.2	2465.5	2486.3	2510.5	2527.8	2531.3
32.5°	2115.7	2150.4	2188.5	2223.1	2243.9	2250.8	2268.1	2288.9	2309.7	2323.5	2327.0
35°	1921.8	1946.1	1970.3	2001.5	2022.3	2022.3	2039.6	2053.4	2070.7	2101.9	2095.0
37.5°	1693.3	1727.9	1745.2	1755.6	1769.5	1783.3	1786.8	1804.1	1824.9	1831.8	1842.2
40°	1478.6	1489.0	1499.4	1499.4	1513.2	1513.2	1513.2	1516.7	1537.5	1540.9	1554.8
42.5°	1263.9	1263.9	1253.5	1243.1	1246.6	1243.1	1225.8	1225.8	1236.2	1250.1	1250.1
45°	1063.1	1038.8	1007.7	983.4	966.1	959.2	938.4	938.4	934.9	938.4	952.3
47.5°	893.4	851.8	799.9	751.4	734.1	720.3	689.1	675.2	668.3	671.8	678.7
50°	751.4	706.4	647.5	588.7	557.5	540.2	502.1	477.9	474.4	467.5	481.3
52.5°	647.5	592.1	529.8	460.5	429.4	401.7	360.1	339.4	325.5	325.5	329.0
55°	557.5	498.6	429.4	360.1	329.0	308.2	266.6	238.9	225.1	221.6	232.0
57.5°	481.3	425.9	356.7	287.4	256.2	232.0	190.5	166.2	155.8	148.9	152.4
60°	422.5	367.1	297.8	232.0	204.3	176.6	142.0	114.3	100.4	100.4	103.9
62.5°	367.1	315.1	252.8	190.5	166.2	142.0	103.9	79.6	69.3	65.8	69.3
65°	311.6	263.2	211.2	159.3	135.0	114.3	83.1	62.3	48.5	45.0	48.5
67.5°	252.8	214.7	169.7	128.1	107.3	90.0	62.3	45.0	34.6	31.2	34.6
70°	197.4	162.7	128.1	93.5	79.6	65.8	45.0	34.6	24.2	20.8	24.2
72.5°	142.0	117.7	90.0	65.8	55.4	45.0	31.2	24.2	17.3	13.9	17.3
75°	97.0	79.6	58.9	41.6	34.6	31.2	20.8	13.9	10.4	10.4	10.4
77.5°	62.3	48.5	38.1	27.7	20.8	17.3	10.4	6.9	6.9	6.9	6.9
80°	34.6	27.7	20.8	13.9	10.4	10.4	6.9	6.9	3.5	3.5	3.5
82.5°	20.8	13.9	10.4	6.9	6.9	3.5	3.5	3.5	3.5	3.5	3.5
85°	10.4	6.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3
2.5°	2988.4	2991.8	2981.4	2995.3	2984.9	2998.8	2998.8	2984.9	2988.4	2981.4	2995.3
5°	2981.4	2981.4	2974.5	2984.9	2971.1	2984.9	2981.4	2957.2	2964.1	2950.3	2964.1
7.5°	2981.4	2974.5	2964.1	2974.5	2957.2	2967.6	2953.7	2929.5	2922.6	2905.3	2905.3
10°	2991.8	2981.4	2967.6	2971.1	2953.7	2957.2	2936.4	2901.8	2891.4	2870.6	2863.7
12.5°	3016.1	3005.7	2984.9	2991.8	2967.6	2967.6	2939.9	2898.3	2877.6	2849.9	2842.9
15°	3050.7	3033.4	3009.1	3012.6	2988.4	2974.5	2939.9	2891.4	2863.7	2825.6	2815.2
17.5°	3057.6	3040.3	3009.1	3009.1	2978.0	2960.7	2919.1	2863.7	2829.1	2791.0	2770.2
20°	3019.5	3002.2	2967.6	2964.1	2936.4	2912.2	2867.2	2811.8	2777.1	2735.6	2718.3
22.5°	2939.9	2919.1	2887.9	2884.5	2856.8	2842.9	2794.5	2739.0	2704.4	2662.9	2649.0
25°	2822.2	2811.8	2780.6	2777.1	2752.9	2735.6	2694.0	2642.1	2610.9	2569.4	2555.5
27.5°	2683.6	2673.3	2642.1	2642.1	2614.4	2604.0	2565.9	2517.4	2493.2	2455.1	2437.8
30°	2517.4	2503.6	2486.3	2482.8	2458.6	2448.2	2413.5	2368.5	2344.3	2313.1	2306.2
32.5°	2320.1	2309.7	2299.3	2295.8	2271.6	2261.2	2236.9	2191.9	2171.2	2143.5	2133.1
35°	2091.5	2084.6	2074.2	2070.7	2060.3	2050.0	2025.7	1991.1	1980.7	1959.9	1949.5
37.5°	1828.3	1835.3	1828.3	1828.3	1818.0	1821.4	1800.6	1779.9	1769.5	1755.6	1748.7
40°	1544.4	1558.2	1568.6	1568.6	1565.2	1579.0	1575.6	1558.2	1554.8	1547.9	1544.4
42.5°	1257.0	1263.9	1284.7	1298.5	1295.1	1329.7	1333.2	1347.0	1357.4	1350.5	1353.9
45°	955.7	976.5	1004.2	1018.1	1035.4	1080.4	1104.6	1132.3	1156.6	1170.4	1167.0
47.5°	689.1	713.3	744.5	765.3	796.4	851.8	914.2	948.8	983.4	1000.7	1018.1
50°	498.6	522.9	561.0	592.1	612.9	689.1	754.9	799.9	838.0	862.2	879.5
52.5°	349.7	377.4	419.0	446.7	477.9	550.6	626.8	678.7	720.3	751.4	768.7
55°	242.4	273.6	311.6	339.4	374.0	450.2	522.9	578.3	623.3	651.0	671.8
57.5°	169.7	197.4	235.5	259.7	294.3	367.1	439.8	495.2	540.2	567.9	592.1
60°	114.3	142.0	180.1	204.3	232.0	304.7	370.5	429.4	470.9	498.6	522.9
62.5°	79.6	103.9	142.0	166.2	190.5	252.8	315.1	367.1	408.6	439.8	460.5
65°	62.3	83.1	114.3	135.0	159.3	211.2	263.2	308.2	349.7	380.9	394.8
67.5°	45.0	65.8	90.0	107.3	124.7	169.7	214.7	249.3	287.4	311.6	329.0
70°	31.2	45.0	65.8	79.6	93.5	128.1	162.7	193.9	221.6	238.9	252.8
72.5°	24.2	31.2	45.0	55.4	65.8	90.0	117.7	142.0	162.7	176.6	190.5
75°	13.9	20.8	31.2	38.1	45.0	62.3	79.6	97.0	110.8	121.2	128.1
77.5°	6.9	10.4	17.3	20.8	27.7	38.1	51.9	62.3	72.7	79.6	86.6
80°	6.9	6.9	10.4	10.4	13.9	20.8	27.7	34.6	41.6	48.5	51.9
82.5°	3.5	3.5	6.9	6.9	6.9	10.4	13.9	20.8	24.2	27.7	31.2
85°	3.5	3.5	3.5	3.5	3.5	6.9	6.9	10.4	13.9	17.3	17.3
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	6.9	6.9	6.9	10.4
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: P252632

CATALOG NUMBER: LD6B60D010TE EU6B60709050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3
2.5°	2984.9	2991.8	2988.4	2995.3	2984.9	2981.4	2988.4	2978.0
5°	2946.8	2950.3	2946.8	2946.8	2939.9	2933.0	2939.9	2929.5
7.5°	2887.9	2887.9	2877.6	2877.6	2863.7	2856.8	2856.8	2853.3
10°	2839.5	2829.1	2818.7	2822.2	2801.4	2794.5	2791.0	2787.5
12.5°	2815.2	2808.3	2791.0	2791.0	2770.2	2763.3	2759.8	2756.4
15°	2787.5	2773.7	2759.8	2756.4	2739.0	2732.1	2728.7	2721.7
17.5°	2739.0	2728.7	2711.3	2711.3	2694.0	2690.6	2683.6	2680.2
20°	2687.1	2673.3	2659.4	2659.4	2638.6	2638.6	2628.2	2631.7
22.5°	2614.4	2604.0	2590.1	2590.1	2572.8	2569.4	2559.0	2555.5
25°	2527.8	2514.0	2503.6	2500.1	2486.3	2479.3	2475.9	2469.0
27.5°	2413.5	2403.2	2392.8	2385.8	2368.5	2365.1	2354.7	2358.1
30°	2271.6	2264.6	2261.2	2254.3	2233.5	2226.6	2226.6	2216.2
32.5°	2115.7	2105.4	2098.4	2088.0	2070.7	2067.3	2056.9	2060.3
35°	1925.3	1911.4	1901.1	1904.5	1883.7	1880.3	1873.4	1876.8
37.5°	1727.9	1714.1	1700.2	1696.8	1679.4	1679.4	1669.1	1669.1
40°	1523.6	1509.8	1502.8	1502.8	1482.1	1485.5	1475.1	1471.7
42.5°	1340.1	1326.2	1322.8	1319.3	1308.9	1305.5	1295.1	1298.5
45°	1167.0	1163.5	1163.5	1156.6	1146.2	1142.7	1146.2	1146.2
47.5°	1014.6	1018.1	1014.6	1014.6	1007.7	1014.6	1007.7	1011.1
50°	886.5	893.4	893.4	893.4	889.9	893.4	893.4	896.9
52.5°	779.1	789.5	786.0	789.5	786.0	793.0	789.5	793.0
55°	685.6	692.6	696.0	699.5	699.5	699.5	699.5	699.5
57.5°	599.1	609.4	612.9	616.4	616.4	623.3	616.4	616.4
60°	529.8	540.2	543.7	547.1	547.1	550.6	543.7	547.1
62.5°	467.5	477.9	477.9	481.3	481.3	481.3	474.4	477.9
65°	405.1	408.6	412.1	412.1	408.6	408.6	405.1	408.6
67.5°	335.9	339.4	335.9	335.9	332.4	332.4	325.5	329.0
70°	259.7	259.7	263.2	259.7	256.2	259.7	256.2	252.8
72.5°	193.9	193.9	193.9	190.5	190.5	187.0	190.5	190.5
75°	131.6	131.6	135.0	135.0	135.0	135.0	131.6	131.6
77.5°	86.6	86.6	86.6	86.6	90.0	86.6	86.6	86.6
80°	55.4	55.4	58.9	58.9	55.4	55.4	55.4	55.4
82.5°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
85°	20.8	20.8	20.8	20.8	17.3	17.3	17.3	17.3
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	6.9	6.9
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)