

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: P252611

Luminaire Tested: **LD6B50D010TE EU6B30508035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252611
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: LD6B50D010TE EU6B30508035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5464.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

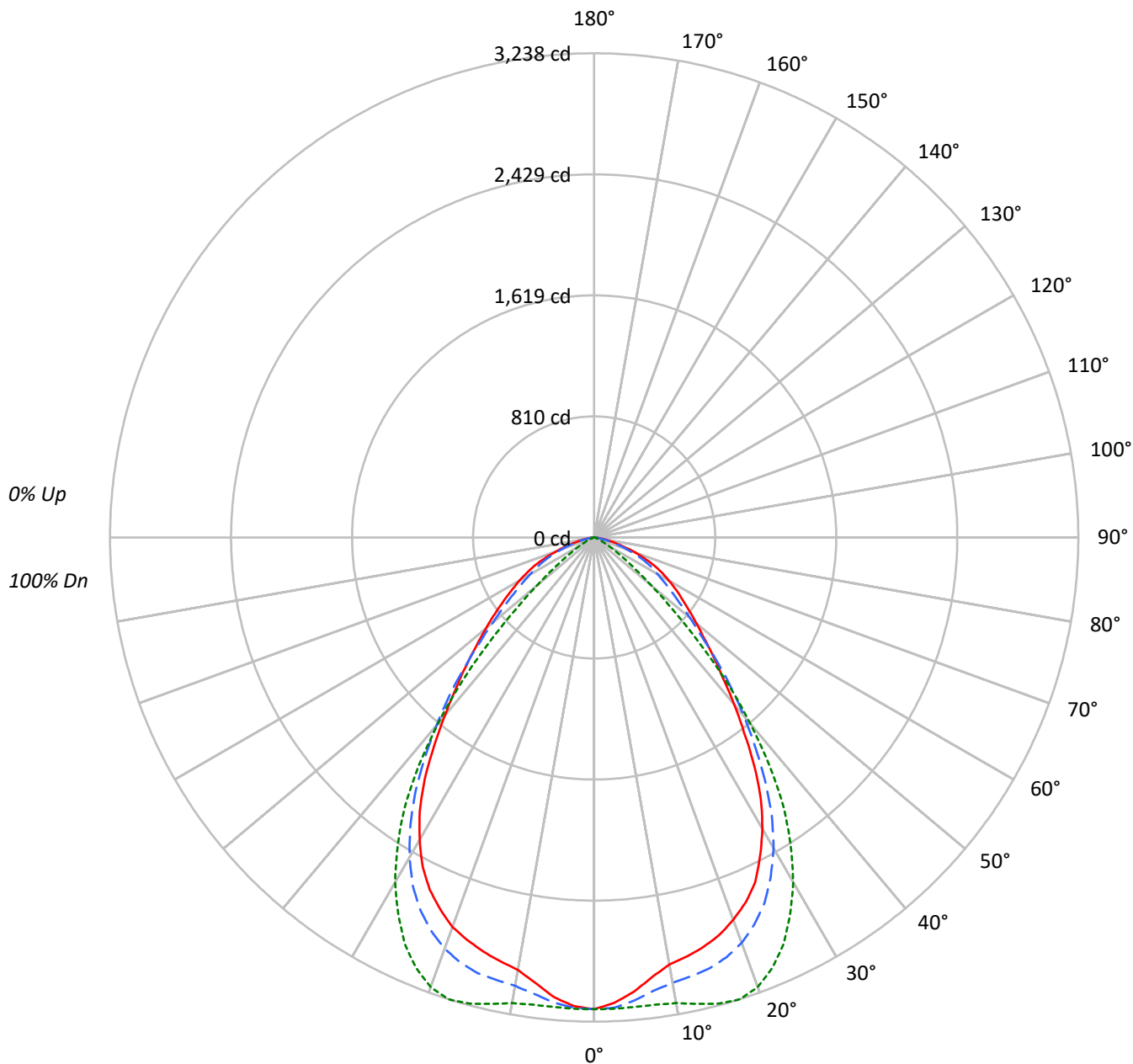
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	205808	205808	205808
5°	199672	206358	202056
10°	192077	209467	194488
15°	191394	217999	193609
20°	188885	222057	192433
25°	183245	215797	187183
30°	169515	200560	175836
35°	148719	176308	157432
40°	123924	138215	132007
45°	104314	91185	111381
50°	90322	49967	95873
55°	81725	26548	83795
60°	75183	13805	75183
65°	68125	7317	66426
70°	54955	4177	50778
75°	37685	2748	34937
80°	24646	1353	21941
85°	16393	2695	13624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	5.4
10°-20°	850.6	15.6
20°-30°	1256.8	23.0
30°-40°	1269.4	23.2
40°-50°	875.0	16.0
50°-60°	502.5	9.2
60°-70°	292.5	5.4
70°-80°	106.7	2.0
80°-90°	16.3	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°	2401.6	44.0
0°-40°	3671.0	67.2
0°-60°	5048.5	92.4
0°-90°	5464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5464.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3155	3155	3155	3155	3155	
5°	3049	3107	3151	3122	3085	286
15°	2834	2983	3228	3016	2866	798
25°	2546	2695	2998	2750	2600	1160
35°	1867	1995	2214	2086	1977	1159
45°	1131	1145	988	1218	1207	879
55°	718	631	233	656	737	647
65°	441	372	47	368	430	432
75°	150	120	11	117	139	168
85°	22	11	4	15	18	28
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°	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6
2.5°	3114.5	3118.2	3121.8	3118.2	3121.8	3136.4	3125.5	3132.8	3132.8	3136.4	3147.3
5°	3048.9	3048.9	3056.2	3052.5	3063.5	3078.1	3067.1	3078.1	3081.7	3089.0	3107.2
7.5°	2965.0	2965.0	2968.6	2968.6	2983.2	2997.8	2990.5	3005.1	3019.7	3034.3	3056.2
10°	2899.4	2906.6	2906.6	2910.3	2924.9	2943.1	2939.5	2957.7	2972.3	2994.2	3023.3
12.5°	2870.2	2873.8	2873.8	2881.1	2895.7	2913.9	2910.3	2928.5	2950.4	2975.9	3005.1
15°	2833.7	2841.0	2837.4	2844.6	2859.2	2877.5	2873.8	2892.1	2917.6	2943.1	2983.2
17.5°	2786.3	2789.9	2793.6	2793.6	2808.2	2822.8	2822.8	2841.0	2870.2	2899.4	2943.1
20°	2720.6	2727.9	2727.9	2731.6	2742.5	2764.4	2760.8	2779.0	2808.2	2837.4	2884.8
22.5°	2644.1	2647.7	2647.7	2651.4	2669.6	2680.5	2684.2	2698.8	2724.3	2757.1	2800.9
25°	2545.6	2549.2	2545.6	2556.5	2563.8	2585.7	2578.4	2596.7	2625.8	2651.4	2695.1
27.5°	2403.4	2410.7	2410.7	2414.3	2432.5	2450.8	2450.8	2469.0	2494.5	2512.8	2556.5
30°	2250.2	2261.1	2250.2	2268.4	2275.7	2290.3	2301.2	2312.2	2334.1	2359.6	2399.7
32.5°	2075.1	2071.5	2075.1	2082.4	2104.3	2115.2	2122.5	2133.5	2155.4	2177.2	2210.1
35°	1867.3	1874.5	1878.2	1892.8	1892.8	1911.0	1914.7	1922.0	1954.8	1969.4	1994.9
37.5°	1648.4	1655.7	1659.4	1666.7	1681.3	1688.6	1699.5	1710.4	1732.3	1757.8	1772.4
40°	1455.1	1455.1	1458.8	1466.1	1477.0	1480.7	1491.6	1506.2	1520.8	1542.7	1557.3
42.5°	1272.8	1276.4	1272.8	1280.1	1291.0	1305.6	1302.0	1320.2	1323.9	1338.4	1349.4
45°	1130.6	1130.6	1123.3	1130.6	1130.6	1145.2	1141.5	1148.8	1145.2	1152.4	1145.2
47.5°	995.6	999.3	995.6	999.3	999.3	999.3	1002.9	995.6	999.3	988.3	966.5
50°	889.9	893.5	886.2	889.9	886.2	882.6	886.2	875.3	871.6	857.0	835.2
52.5°	798.7	795.0	791.4	791.4	791.4	787.7	784.1	773.2	762.2	747.6	722.1
55°	718.5	714.8	711.2	711.2	703.9	700.2	700.2	689.3	678.3	660.1	630.9
57.5°	645.5	641.9	638.2	638.2	634.6	627.3	627.3	616.3	601.8	579.9	554.3
60°	576.2	576.2	576.2	572.6	572.6	565.3	565.3	554.3	539.8	517.9	488.7
62.5°	514.2	510.6	510.6	510.6	510.6	506.9	503.3	496.0	481.4	459.5	434.0
65°	441.3	441.3	441.3	441.3	437.6	437.6	437.6	426.7	419.4	397.5	372.0
67.5°	361.1	361.1	361.1	361.1	357.4	361.1	361.1	353.8	346.5	324.6	302.7
70°	288.1	284.5	280.8	284.5	280.8	280.8	284.5	277.2	273.5	255.3	233.4
72.5°	211.5	215.2	211.5	211.5	211.5	207.9	211.5	207.9	200.6	186.0	171.4
75°	149.5	153.2	153.2	149.5	149.5	149.5	145.9	145.9	138.6	127.6	120.4
77.5°	102.1	102.1	102.1	102.1	98.5	98.5	98.5	94.8	91.2	83.9	76.6
80°	65.6	65.6	65.6	65.6	62.0	62.0	62.0	58.4	58.4	51.1	43.8
82.5°	40.1	40.1	40.1	40.1	40.1	40.1	36.5	36.5	32.8	29.2	25.5
85°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	18.2	18.2	14.6	10.9
87.5°	7.3	7.3	10.9	10.9	10.9	10.9	10.9	10.9	7.3	7.3	7.3
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°	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6
2.5°	3140.1	3143.7	3143.7	3143.7	3154.6	3158.3	3147.3	3136.4	3158.3	3154.6	3161.9
5°	3103.6	3114.5	3121.8	3125.5	3136.4	3143.7	3132.8	3129.1	3147.3	3151.0	3154.6
7.5°	3059.8	3078.1	3096.3	3103.6	3118.2	3125.5	3121.8	3121.8	3143.7	3151.0	3151.0
10°	3030.6	3056.2	3078.1	3096.3	3114.5	3125.5	3125.5	3129.1	3154.6	3161.9	3169.2
12.5°	3023.3	3056.2	3085.3	3110.9	3125.5	3143.7	3147.3	3158.3	3183.8	3194.8	3194.8
15°	3005.1	3048.9	3085.3	3118.2	3140.1	3161.9	3169.2	3191.1	3220.3	3227.6	3234.9
17.5°	2972.3	3016.1	3059.8	3099.9	3129.1	3147.3	3169.2	3191.1	3227.6	3238.5	3242.2
20°	2913.9	2965.0	3008.8	3048.9	3078.1	3103.6	3125.5	3151.0	3183.8	3198.4	3202.1
22.5°	2826.4	2877.5	2921.2	2965.0	2994.2	3016.1	3037.9	3067.1	3099.9	3114.5	3114.5
25°	2720.6	2768.1	2815.5	2848.3	2877.5	2903.0	2913.9	2946.8	2979.6	2997.8	2997.8
27.5°	2585.7	2629.5	2673.2	2709.7	2727.9	2749.8	2768.1	2797.2	2822.8	2837.4	2851.9
30°	2414.3	2458.1	2498.2	2534.7	2556.5	2578.4	2596.7	2618.5	2644.1	2662.3	2665.9
32.5°	2228.3	2264.8	2304.9	2341.4	2363.2	2370.5	2388.8	2410.7	2432.5	2447.1	2450.8
35°	2024.1	2049.6	2075.1	2108.0	2129.8	2129.8	2148.1	2162.7	2180.9	2213.7	2206.4
37.5°	1783.4	1819.8	1838.1	1849.0	1863.6	1878.2	1881.8	1900.1	1922.0	1929.3	1940.2
40°	1557.3	1568.2	1579.1	1579.1	1593.7	1593.7	1593.7	1597.4	1619.3	1622.9	1637.5
42.5°	1331.1	1331.1	1320.2	1309.3	1312.9	1309.3	1291.0	1291.0	1302.0	1316.6	1316.6
45°	1119.6	1094.1	1061.3	1035.7	1017.5	1010.2	988.3	988.3	984.7	988.3	1002.9
47.5°	940.9	897.2	842.5	791.4	773.2	758.6	725.7	711.2	703.9	707.5	714.8
50°	791.4	744.0	682.0	620.0	587.2	568.9	528.8	503.3	499.6	492.3	506.9
52.5°	682.0	623.6	558.0	485.0	452.2	423.0	379.3	357.4	342.8	342.8	346.5
55°	587.2	525.2	452.2	379.3	346.5	324.6	280.8	251.6	237.1	233.4	244.3
57.5°	506.9	448.6	375.6	302.7	269.9	244.3	200.6	175.1	164.1	156.8	160.5
60°	444.9	386.6	313.6	244.3	215.2	186.0	149.5	120.4	105.8	105.8	109.4
62.5°	386.6	331.9	266.2	200.6	175.1	149.5	109.4	83.9	72.9	69.3	72.9
65°	328.2	277.2	222.5	167.8	142.2	120.4	87.5	65.6	51.1	47.4	51.1
67.5°	266.2	226.1	178.7	134.9	113.1	94.8	65.6	47.4	36.5	32.8	36.5
70°	207.9	171.4	134.9	98.5	83.9	69.3	47.4	36.5	25.5	21.9	25.5
72.5°	149.5	124.0	94.8	69.3	58.4	47.4	32.8	25.5	18.2	14.6	18.2
75°	102.1	83.9	62.0	43.8	36.5	32.8	21.9	14.6	10.9	10.9	10.9
77.5°	65.6	51.1	40.1	29.2	21.9	18.2	10.9	7.3	7.3	7.3	7.3
80°	36.5	29.2	21.9	14.6	10.9	10.9	7.3	7.3	3.6	3.6	3.6
82.5°	21.9	14.6	10.9	7.3	7.3	3.6	3.6	3.6	3.6	3.6	3.6
85°	10.9	7.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	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°	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6
2.5°	3147.3	3151.0	3140.1	3154.6	3143.7	3158.3	3158.3	3143.7	3147.3	3140.1	3154.6
5°	3140.1	3140.1	3132.8	3143.7	3129.1	3143.7	3140.1	3114.5	3121.8	3107.2	3121.8
7.5°	3140.1	3132.8	3121.8	3132.8	3114.5	3125.5	3110.9	3085.3	3078.1	3059.8	3059.8
10°	3151.0	3140.1	3125.5	3129.1	3110.9	3114.5	3092.6	3056.2	3045.2	3023.3	3016.1
12.5°	3176.5	3165.6	3143.7	3151.0	3125.5	3125.5	3096.3	3052.5	3030.6	3001.5	2994.2
15°	3213.0	3194.8	3169.2	3172.9	3147.3	3132.8	3096.3	3045.2	3016.1	2975.9	2965.0
17.5°	3220.3	3202.1	3169.2	3169.2	3136.4	3118.2	3074.4	3016.1	2979.6	2939.5	2917.6
20°	3180.2	3161.9	3125.5	3121.8	3092.6	3067.1	3019.7	2961.3	2924.9	2881.1	2862.9
22.5°	3096.3	3074.4	3041.6	3037.9	3008.8	2994.2	2943.1	2884.8	2848.3	2804.5	2789.9
25°	2972.3	2961.3	2928.5	2924.9	2899.4	2881.1	2837.4	2782.6	2749.8	2706.1	2691.5
27.5°	2826.4	2815.5	2782.6	2782.6	2753.5	2742.5	2702.4	2651.4	2625.8	2585.7	2567.5
30°	2651.4	2636.8	2618.5	2614.9	2589.4	2578.4	2541.9	2494.5	2469.0	2436.2	2428.9
32.5°	2443.5	2432.5	2421.6	2417.9	2392.4	2381.5	2356.0	2308.5	2286.7	2257.5	2246.5
35°	2202.8	2195.5	2184.5	2180.9	2170.0	2159.0	2133.5	2097.0	2086.1	2064.2	2053.3
37.5°	1925.6	1932.9	1925.6	1925.6	1914.7	1918.3	1896.4	1874.5	1863.6	1849.0	1841.7
40°	1626.6	1641.1	1652.1	1652.1	1648.4	1663.0	1659.4	1641.1	1637.5	1630.2	1626.6
42.5°	1323.9	1331.1	1353.0	1367.6	1364.0	1400.4	1404.1	1418.7	1429.6	1422.3	1426.0
45°	1006.6	1028.4	1057.6	1072.2	1090.4	1137.9	1163.4	1192.6	1218.1	1232.7	1229.0
47.5°	725.7	751.3	784.1	806.0	838.8	897.2	962.8	999.3	1035.7	1054.0	1072.2
50°	525.2	550.7	590.8	623.6	645.5	725.7	795.0	842.5	882.6	908.1	926.3
52.5°	368.3	397.5	441.3	470.5	503.3	579.9	660.1	714.8	758.6	791.4	809.6
55°	255.3	288.1	328.2	357.4	393.9	474.1	550.7	609.0	656.5	685.6	707.5
57.5°	178.7	207.9	248.0	273.5	310.0	386.6	463.2	521.5	568.9	598.1	623.6
60°	120.4	149.5	189.6	215.2	244.3	320.9	390.2	452.2	496.0	525.2	550.7
62.5°	83.9	109.4	149.5	175.1	200.6	266.2	331.9	386.6	430.3	463.2	485.0
65°	65.6	87.5	120.4	142.2	167.8	222.5	277.2	324.6	368.3	401.2	415.8
67.5°	47.4	69.3	94.8	113.1	131.3	178.7	226.1	262.6	302.7	328.2	346.5
70°	32.8	47.4	69.3	83.9	98.5	134.9	171.4	204.2	233.4	251.6	266.2
72.5°	25.5	32.8	47.4	58.4	69.3	94.8	124.0	149.5	171.4	186.0	200.6
75°	14.6	21.9	32.8	40.1	47.4	65.6	83.9	102.1	116.7	127.6	134.9
77.5°	7.3	10.9	18.2	21.9	29.2	40.1	54.7	65.6	76.6	83.9	91.2
80°	7.3	7.3	10.9	10.9	14.6	21.9	29.2	36.5	43.8	51.1	54.7
82.5°	3.6	3.6	7.3	7.3	7.3	10.9	14.6	21.9	25.5	29.2	32.8
85°	3.6	3.6	3.6	3.6	3.6	7.3	7.3	10.9	14.6	18.2	18.2
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	7.3	7.3	7.3	10.9
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: P252611

CATALOG NUMBER: LD6B50D010TE EU6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6
2.5°	3143.7	3151.0	3147.3	3154.6	3143.7	3140.1	3147.3	3136.4
5°	3103.6	3107.2	3103.6	3103.6	3096.3	3089.0	3096.3	3085.3
7.5°	3041.6	3041.6	3030.6	3030.6	3016.1	3008.8	3008.8	3005.1
10°	2990.5	2979.6	2968.6	2972.3	2950.4	2943.1	2939.5	2935.8
12.5°	2965.0	2957.7	2939.5	2939.5	2917.6	2910.3	2906.6	2903.0
15°	2935.8	2921.2	2906.6	2903.0	2884.8	2877.5	2873.8	2866.5
17.5°	2884.8	2873.8	2855.6	2855.6	2837.4	2833.7	2826.4	2822.8
20°	2830.1	2815.5	2800.9	2800.9	2779.0	2779.0	2768.1	2771.7
22.5°	2753.5	2742.5	2727.9	2727.9	2709.7	2706.1	2695.1	2691.5
25°	2662.3	2647.7	2636.8	2633.1	2618.5	2611.2	2607.6	2600.3
27.5°	2541.9	2531.0	2520.1	2512.8	2494.5	2490.9	2479.9	2483.6
30°	2392.4	2385.1	2381.5	2374.2	2352.3	2345.0	2345.0	2334.1
32.5°	2228.3	2217.4	2210.1	2199.1	2180.9	2177.2	2166.3	2170.0
35°	2027.7	2013.1	2002.2	2005.8	1984.0	1980.3	1973.0	1976.7
37.5°	1819.8	1805.3	1790.7	1787.0	1768.8	1768.8	1757.8	1757.8
40°	1604.7	1590.1	1582.8	1582.8	1560.9	1564.6	1553.6	1550.0
42.5°	1411.4	1396.8	1393.1	1389.5	1378.6	1374.9	1364.0	1367.6
45°	1229.0	1225.4	1225.4	1218.1	1207.2	1203.5	1207.2	1207.2
47.5°	1068.6	1072.2	1068.6	1068.6	1061.3	1068.6	1061.3	1064.9
50°	933.6	940.9	940.9	940.9	937.3	940.9	940.9	944.6
52.5°	820.6	831.5	827.9	831.5	827.9	835.2	831.5	835.2
55°	722.1	729.4	733.0	736.7	736.7	736.7	736.7	736.7
57.5°	630.9	641.9	645.5	649.2	649.2	656.5	649.2	649.2
60°	558.0	568.9	572.6	576.2	576.2	579.9	572.6	576.2
62.5°	492.3	503.3	503.3	506.9	506.9	506.9	499.6	503.3
65°	426.7	430.3	434.0	434.0	430.3	430.3	426.7	430.3
67.5°	353.8	357.4	353.8	353.8	350.1	350.1	342.8	346.5
70°	273.5	273.5	277.2	273.5	269.9	273.5	269.9	266.2
72.5°	204.2	204.2	204.2	200.6	200.6	196.9	200.6	200.6
75°	138.6	138.6	142.2	142.2	142.2	142.2	138.6	138.6
77.5°	91.2	91.2	91.2	91.2	94.8	91.2	91.2	91.2
80°	58.4	58.4	62.0	62.0	58.4	58.4	58.4	58.4
82.5°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
85°	21.9	21.9	21.9	21.9	18.2	18.2	18.2	18.2
87.5°	10.9	10.9	10.9	10.9	10.9	10.9	7.3	7.3
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)