

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: P252431

Luminaire Tested: **LD6B70D010TE EU6B60708050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252431
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 EU6B60708050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6635.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

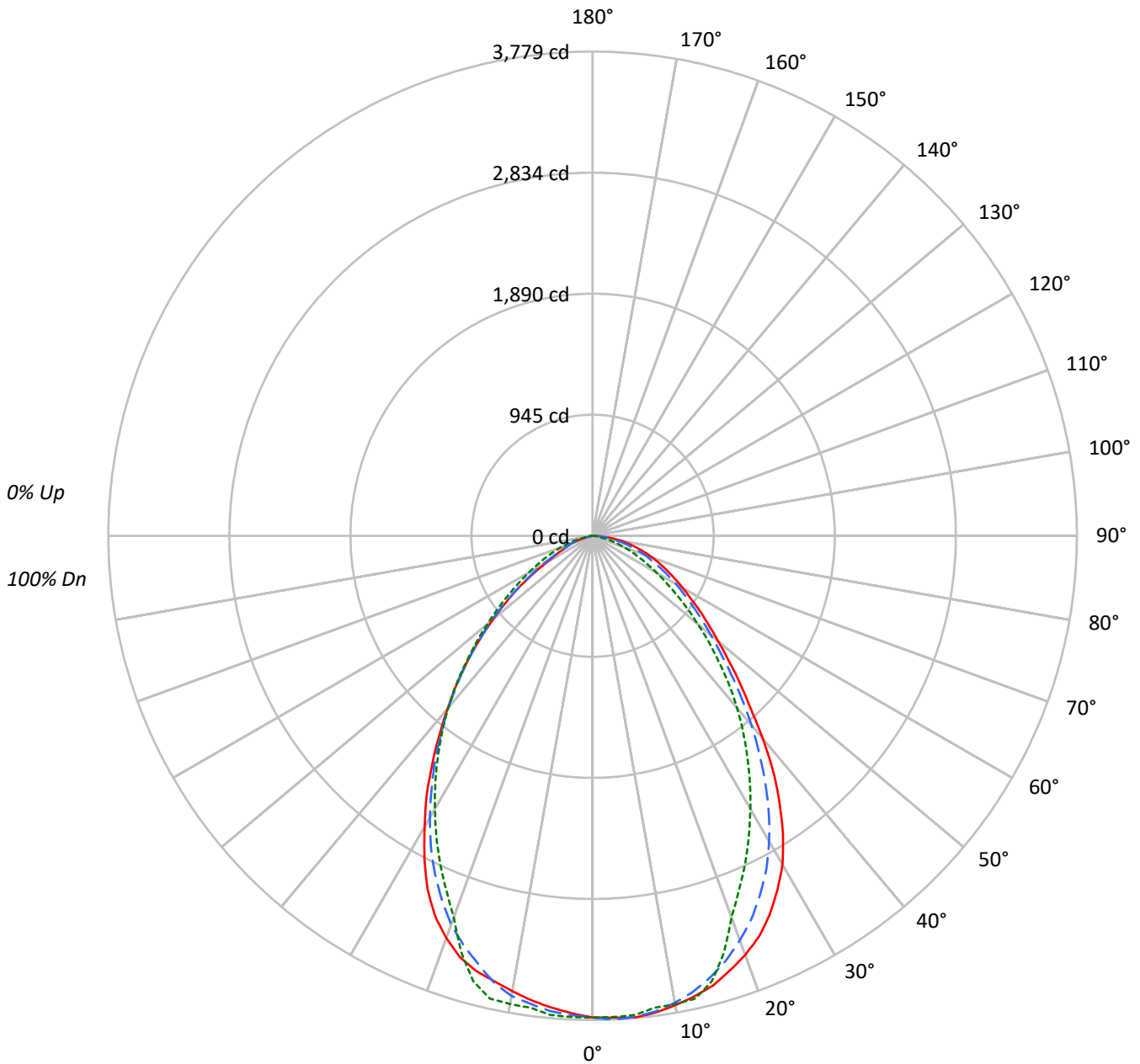
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	245266	245266	245266
5°	247165	245888	242050
10°	246466	245816	239026
15°	245347	243037	237431
20°	241685	219995	231860
25°	235125	202789	219310
30°	223258	185373	197509
35°	202591	167595	173815
40°	175892	149278	149696
45°	150003	128386	127029
50°	129834	108520	102582
55°	116064	90517	79416
60°	105755	75170	53510
65°	98737	61811	39952
70°	94059	50282	33534
75°	88603	35693	11066
80°	84384	18334	3682
85°	69466	10929	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	5.4
10°-20°	992.9	15.0
20°-30°	1370.6	20.7
30°-40°	1394.7	21.0
40°-50°	1120.9	16.9
50°-60°	745.3	11.2
60°-70°	424.7	6.4
70°-80°	190.8	2.9
80°-90°	40.2	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°	2718.5	41.0
0°-40°	4113.2	62.0
0°-60°	5979.4	90.1
0°-90°	6635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6635.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3759	3759	3759	3759	3759	
5°	3774	3769	3755	3725	3696	358
15°	3632	3564	3598	3457	3515	1022
25°	3266	3091	2817	2910	3047	1497
35°	2544	2348	2104	2143	2182	1581
45°	1626	1528	1392	1377	1377	1261
55°	1020	952	796	708	698	917
65°	640	571	400	259	259	637
75°	352	293	142	59	44	375
85°	93	64	15	5	0	110
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°	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4
2.5°	3764.3	3783.9	3779.0	3774.1	3779.0	3774.1	3764.3	3764.3	3754.6	3754.6	3779.0
5°	3774.1	3783.9	3779.0	3774.1	3774.1	3779.0	3759.4	3759.4	3749.7	3744.8	3769.2
7.5°	3754.6	3769.2	3759.4	3759.4	3754.6	3759.4	3739.9	3739.9	3725.3	3720.4	3744.8
10°	3720.4	3739.9	3730.2	3730.2	3730.2	3720.4	3710.6	3705.7	3691.1	3686.2	3700.9
12.5°	3681.3	3696.0	3691.1	3681.3	3681.3	3681.3	3661.8	3656.9	3637.4	3627.6	3642.3
15°	3632.5	3642.3	3637.4	3632.5	3622.7	3622.7	3603.2	3593.4	3573.9	3554.4	3564.2
17.5°	3559.3	3573.9	3564.2	3559.3	3544.6	3544.6	3525.1	3515.3	3486.0	3466.5	3471.4
20°	3481.1	3486.0	3481.1	3471.4	3456.7	3451.9	3432.3	3412.8	3388.4	3364.0	3359.1
22.5°	3388.4	3393.3	3378.6	3368.9	3354.2	3349.3	3324.9	3310.3	3271.2	3241.9	3237.0
25°	3266.3	3271.2	3271.2	3246.8	3237.0	3227.3	3202.9	3178.4	3144.3	3105.2	3090.6
27.5°	3119.9	3134.5	3124.7	3100.3	3080.8	3075.9	3051.5	3032.0	2988.0	2953.9	2934.3
30°	2963.6	2958.7	2953.9	2939.2	2909.9	2905.0	2880.6	2856.2	2822.0	2778.1	2753.7
32.5°	2763.4	2763.4	2758.6	2743.9	2714.6	2704.8	2685.3	2656.0	2617.0	2582.8	2558.4
35°	2543.7	2548.6	2543.7	2514.4	2494.9	2485.1	2475.4	2441.2	2407.0	2368.0	2348.4
37.5°	2314.3	2299.6	2304.5	2280.1	2255.7	2265.4	2236.1	2221.5	2182.4	2153.1	2133.6
40°	2065.3	2075.0	2055.5	2045.7	2031.1	2016.4	2016.4	1992.0	1972.5	1938.3	1928.5
42.5°	1821.1	1835.8	1830.9	1821.1	1801.6	1806.5	1782.1	1772.3	1747.9	1733.3	1718.6
45°	1625.8	1625.8	1625.8	1616.1	1611.2	1601.4	1586.8	1572.1	1557.5	1538.0	1528.2
47.5°	1435.4	1435.4	1440.3	1430.5	1420.8	1415.9	1406.1	1406.1	1381.7	1362.2	1352.4
50°	1279.2	1279.2	1279.2	1269.4	1259.7	1259.7	1249.9	1240.1	1225.5	1210.8	1201.1
52.5°	1137.6	1137.6	1137.6	1127.8	1123.0	1118.1	1113.2	1108.3	1088.8	1079.0	1069.2
55°	1020.4	1015.5	1015.5	1010.7	1000.9	1000.9	996.0	986.2	971.6	957.0	952.1
57.5°	903.2	908.1	903.2	903.2	893.5	893.5	883.7	878.8	864.2	854.4	844.7
60°	810.5	810.5	810.5	805.6	795.8	800.7	790.9	786.1	771.4	756.8	747.0
62.5°	717.7	722.6	722.6	717.7	707.9	707.9	703.1	698.2	683.5	668.9	654.2
65°	639.6	639.6	639.6	634.7	629.8	629.8	624.9	620.1	605.4	585.9	571.2
67.5°	566.4	561.5	561.5	561.5	556.6	551.7	546.8	541.9	527.3	512.7	493.1
70°	493.1	493.1	493.1	488.2	478.5	483.4	478.5	473.6	458.9	444.3	429.7
72.5°	424.8	424.8	419.9	415.0	415.0	410.1	410.1	405.2	390.6	371.1	356.4
75°	351.5	351.5	351.5	351.5	341.8	346.7	336.9	332.0	322.2	307.6	292.9
77.5°	288.1	288.1	288.1	283.2	278.3	278.3	273.4	268.5	253.9	244.1	224.6
80°	224.6	224.6	224.6	224.6	219.7	214.8	209.9	205.1	195.3	180.6	166.0
82.5°	166.0	166.0	161.1	161.1	161.1	156.2	151.4	146.5	136.7	126.9	117.2
85°	92.8	97.6	97.6	87.9	92.8	87.9	87.9	78.1	78.1	68.4	63.5
87.5°	34.2	29.3	29.3	29.3	29.3	29.3	29.3	24.4	24.4	24.4	19.5
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°	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4
2.5°	3759.4	3754.6	3774.1	3774.1	3744.8	3759.4	3764.3	3754.6	3754.6	3759.4	3744.8
5°	3749.7	3739.9	3759.4	3764.3	3735.0	3749.7	3754.6	3744.8	3749.7	3754.6	3735.0
7.5°	3715.5	3715.5	3730.2	3735.0	3705.7	3720.4	3720.4	3710.6	3715.5	3715.5	3700.9
10°	3681.3	3666.7	3681.3	3681.3	3656.9	3661.8	3671.6	3666.7	3686.2	3710.6	3710.6
12.5°	3617.9	3603.2	3627.6	3627.6	3613.0	3632.5	3656.9	3671.6	3691.1	3700.9	3671.6
15°	3539.7	3544.6	3588.6	3622.7	3608.1	3637.4	3661.8	3652.0	3627.6	3598.3	3554.4
17.5°	3437.2	3422.6	3461.6	3481.1	3461.6	3471.4	3490.9	3471.4	3432.3	3407.9	3349.3
20°	3320.0	3281.0	3281.0	3271.2	3237.0	3237.0	3232.1	3198.0	3183.3	3168.7	3144.3
22.5°	3188.2	3144.3	3129.6	3100.3	3071.0	3066.1	3051.5	3017.3	2997.8	2988.0	2958.7
25°	3036.9	2997.8	2973.4	2944.1	2900.1	2890.4	2875.7	2841.6	2831.8	2817.1	2792.7
27.5°	2880.6	2831.8	2797.6	2768.3	2729.3	2724.4	2695.1	2670.7	2651.1	2641.4	2621.8
30°	2700.0	2646.3	2621.8	2582.8	2553.5	2543.7	2519.3	2485.1	2470.5	2460.7	2446.1
32.5°	2499.8	2455.8	2431.4	2397.3	2358.2	2363.1	2333.8	2304.5	2294.7	2285.0	2270.3
35°	2304.5	2260.6	2231.3	2202.0	2177.5	2167.8	2148.3	2123.8	2109.2	2104.3	2094.5
37.5°	2089.7	2055.5	2031.1	2001.8	1982.3	1972.5	1962.7	1938.3	1928.5	1928.5	1909.0
40°	1879.7	1850.4	1830.9	1816.3	1791.8	1787.0	1777.2	1762.5	1757.7	1752.8	1738.1
42.5°	1689.3	1650.3	1635.6	1625.8	1611.2	1601.4	1596.5	1586.8	1581.9	1577.0	1562.4
45°	1508.7	1474.5	1459.8	1450.1	1435.4	1430.5	1425.7	1411.0	1401.2	1391.5	1386.6
47.5°	1332.9	1308.5	1303.6	1279.2	1269.4	1259.7	1249.9	1240.1	1235.2	1230.4	1210.8
50°	1181.5	1166.9	1142.5	1127.8	1118.1	1113.2	1093.7	1079.0	1074.1	1069.2	1054.6
52.5°	1044.8	1025.3	1010.7	986.2	981.4	971.6	961.8	942.3	932.5	927.7	913.0
55°	922.8	908.1	888.6	869.1	854.4	849.5	834.9	815.4	805.6	795.8	786.1
57.5°	820.2	795.8	776.3	756.8	747.0	732.4	717.7	707.9	693.3	678.7	664.0
60°	722.6	703.1	678.7	659.1	649.4	639.6	620.1	605.4	590.8	576.1	561.5
62.5°	629.8	610.3	585.9	566.4	556.6	546.8	527.3	512.7	498.0	483.4	463.8
65°	546.8	527.3	507.8	488.2	478.5	468.7	449.2	429.7	415.0	400.4	380.8
67.5°	478.5	454.1	434.5	415.0	405.2	395.5	375.9	361.3	341.8	327.1	307.6
70°	405.2	385.7	371.1	351.5	341.8	332.0	312.5	292.9	278.3	263.6	244.1
72.5°	341.8	317.4	302.7	283.2	273.4	268.5	249.0	234.4	219.7	200.2	185.5
75°	273.4	253.9	234.4	219.7	209.9	205.1	185.5	170.9	156.2	141.6	126.9
77.5°	209.9	195.3	175.8	161.1	151.4	146.5	126.9	112.3	97.6	87.9	73.2
80°	156.2	136.7	126.9	112.3	107.4	97.6	87.9	73.2	63.5	48.8	39.1
82.5°	107.4	92.8	83.0	73.2	68.4	63.5	53.7	43.9	34.2	29.3	24.4
85°	58.6	48.8	43.9	39.1	34.2	34.2	29.3	24.4	19.5	14.6	9.8
87.5°	19.5	14.6	14.6	14.6	14.6	9.8	9.8	9.8	4.9	4.9	4.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4
2.5°	3754.6	3754.6	3754.6	3749.7	3749.7	3749.7	3744.8	3764.3	3744.8	3739.9	3754.6
5°	3749.7	3739.9	3739.9	3739.9	3739.9	3735.0	3730.2	3739.9	3725.3	3720.4	3720.4
7.5°	3720.4	3715.5	3715.5	3710.6	3705.7	3700.9	3696.0	3700.9	3686.2	3681.3	3681.3
10°	3725.3	3715.5	3715.5	3700.9	3691.1	3676.4	3661.8	3666.7	3647.2	3632.5	3632.5
12.5°	3666.7	3642.3	3627.6	3613.0	3603.2	3598.3	3578.8	3588.6	3569.0	3564.2	3564.2
15°	3534.9	3505.6	3481.1	3471.4	3471.4	3461.6	3447.0	3466.5	3456.7	3461.6	3486.0
17.5°	3329.8	3315.1	3300.5	3295.6	3300.5	3310.3	3320.0	3349.3	3349.3	3364.0	3388.4
20°	3149.1	3139.4	3149.1	3149.1	3154.0	3173.6	3193.1	3217.5	3227.3	3241.9	3276.1
22.5°	2973.4	2973.4	2983.1	2997.8	2992.9	3027.1	3032.0	3075.9	3075.9	3105.2	3134.5
25°	2802.5	2802.5	2812.3	2817.1	2826.9	2846.4	2866.0	2900.1	2909.9	2939.2	2963.6
27.5°	2636.5	2631.6	2631.6	2636.5	2646.3	2670.7	2680.4	2719.5	2734.1	2753.7	2778.1
30°	2451.0	2446.1	2455.8	2465.6	2460.7	2485.1	2499.8	2529.1	2538.8	2558.4	2577.9
32.5°	2275.2	2275.2	2275.2	2285.0	2285.0	2304.5	2304.5	2338.7	2338.7	2353.3	2372.8
35°	2094.5	2094.5	2099.4	2104.3	2109.2	2114.1	2119.0	2138.5	2143.4	2148.3	2158.0
37.5°	1923.7	1918.8	1923.7	1923.7	1913.9	1933.4	1933.4	1953.0	1938.3	1953.0	1957.8
40°	1747.9	1747.9	1743.0	1743.0	1743.0	1752.8	1743.0	1757.7	1747.9	1757.7	1752.8
42.5°	1567.2	1567.2	1557.5	1567.2	1562.4	1562.4	1562.4	1572.1	1557.5	1567.2	1572.1
45°	1386.6	1381.7	1381.7	1376.8	1376.8	1376.8	1381.7	1381.7	1376.8	1386.6	1386.6
47.5°	1210.8	1206.0	1206.0	1206.0	1206.0	1210.8	1196.2	1206.0	1196.2	1196.2	1196.2
50°	1059.5	1054.6	1049.7	1044.8	1040.0	1040.0	1035.1	1035.1	1025.3	1020.4	1015.5
52.5°	913.0	908.1	898.4	898.4	893.5	888.6	873.9	873.9	859.3	854.4	854.4
55°	781.2	766.5	761.7	751.9	751.9	742.1	732.4	722.6	707.9	698.2	698.2
57.5°	659.1	644.5	634.7	629.8	624.9	615.2	595.7	590.8	571.2	566.4	561.5
60°	551.7	537.1	522.4	512.7	507.8	493.1	473.6	463.8	454.1	439.4	424.8
62.5°	449.2	434.5	415.0	410.1	400.4	385.7	371.1	356.4	346.7	332.0	322.2
65°	361.3	346.7	332.0	322.2	312.5	297.8	283.2	268.5	258.8	253.9	249.0
67.5°	292.9	273.4	258.8	253.9	244.1	234.4	219.7	214.8	205.1	205.1	205.1
70°	229.5	214.8	200.2	195.3	190.4	180.6	170.9	170.9	170.9	170.9	170.9
72.5°	170.9	161.1	146.5	141.6	136.7	131.8	122.1	126.9	122.1	122.1	122.1
75°	107.4	97.6	87.9	83.0	78.1	73.2	68.4	63.5	58.6	53.7	53.7
77.5°	58.6	48.8	43.9	39.1	39.1	34.2	29.3	29.3	24.4	24.4	24.4
80°	34.2	29.3	24.4	19.5	19.5	14.6	14.6	14.6	14.6	9.8	9.8
82.5°	19.5	14.6	9.8	9.8	9.8	9.8	4.9	4.9	4.9	4.9	4.9
85°	9.8	9.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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: P252431

CATALOG NUMBER: LD6B70D010TE EU6B60708050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4	3759.4
2.5°	3730.2	3744.8	3730.2	3744.8	3744.8	3744.8	3744.8	3730.2
5°	3705.7	3715.5	3700.9	3710.6	3715.5	3710.6	3710.6	3696.0
7.5°	3661.8	3671.6	3656.9	3671.6	3676.4	3671.6	3666.7	3656.9
10°	3617.9	3622.7	3608.1	3617.9	3627.6	3627.6	3622.7	3608.1
12.5°	3549.5	3564.2	3549.5	3559.3	3569.0	3573.9	3573.9	3559.3
15°	3471.4	3495.8	3486.0	3500.7	3515.3	3520.2	3520.2	3515.3
17.5°	3393.3	3417.7	3403.0	3427.4	3442.1	3451.9	3456.7	3447.0
20°	3281.0	3310.3	3300.5	3320.0	3339.6	3354.2	3354.2	3339.6
22.5°	3134.5	3173.6	3168.7	3183.3	3207.7	3212.6	3222.4	3212.6
25°	2973.4	3002.7	2997.8	3012.4	3041.7	3041.7	3046.6	3046.6
27.5°	2787.8	2817.1	2812.3	2822.0	2841.6	2846.4	2851.3	2841.6
30°	2587.7	2602.3	2602.3	2617.0	2631.6	2636.5	2636.5	2621.8
32.5°	2368.0	2387.5	2397.3	2392.4	2407.0	2416.8	2411.9	2411.9
35°	2167.8	2172.7	2177.5	2182.4	2187.3	2197.1	2187.3	2182.4
37.5°	1953.0	1967.6	1957.8	1967.6	1977.4	1972.5	1967.6	1967.6
40°	1757.7	1762.5	1752.8	1762.5	1767.4	1767.4	1767.4	1757.7
42.5°	1562.4	1572.1	1562.4	1572.1	1572.1	1572.1	1572.1	1567.2
45°	1367.1	1376.8	1376.8	1381.7	1381.7	1376.8	1376.8	1376.8
47.5°	1186.4	1196.2	1186.4	1196.2	1201.1	1191.3	1191.3	1191.3
50°	1015.5	1010.7	1010.7	1015.5	1015.5	1015.5	1015.5	1010.7
52.5°	839.8	844.7	844.7	844.7	849.5	844.7	849.5	849.5
55°	688.4	688.4	688.4	693.3	688.4	688.4	693.3	698.2
57.5°	551.7	546.8	541.9	541.9	546.8	541.9	541.9	541.9
60°	424.8	419.9	415.0	415.0	415.0	415.0	415.0	410.1
62.5°	317.4	317.4	317.4	322.2	322.2	322.2	322.2	327.1
65°	253.9	253.9	253.9	253.9	253.9	253.9	253.9	258.8
67.5°	205.1	205.1	205.1	209.9	209.9	209.9	209.9	209.9
70°	170.9	170.9	175.8	170.9	175.8	175.8	175.8	175.8
72.5°	117.2	117.2	117.2	117.2	117.2	112.3	117.2	112.3
75°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	43.9
77.5°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
80°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	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)