

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: P252743

Luminaire Tested: **LD6B70D010TE EU6B60708050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252743
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 EU6B60708050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6850.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

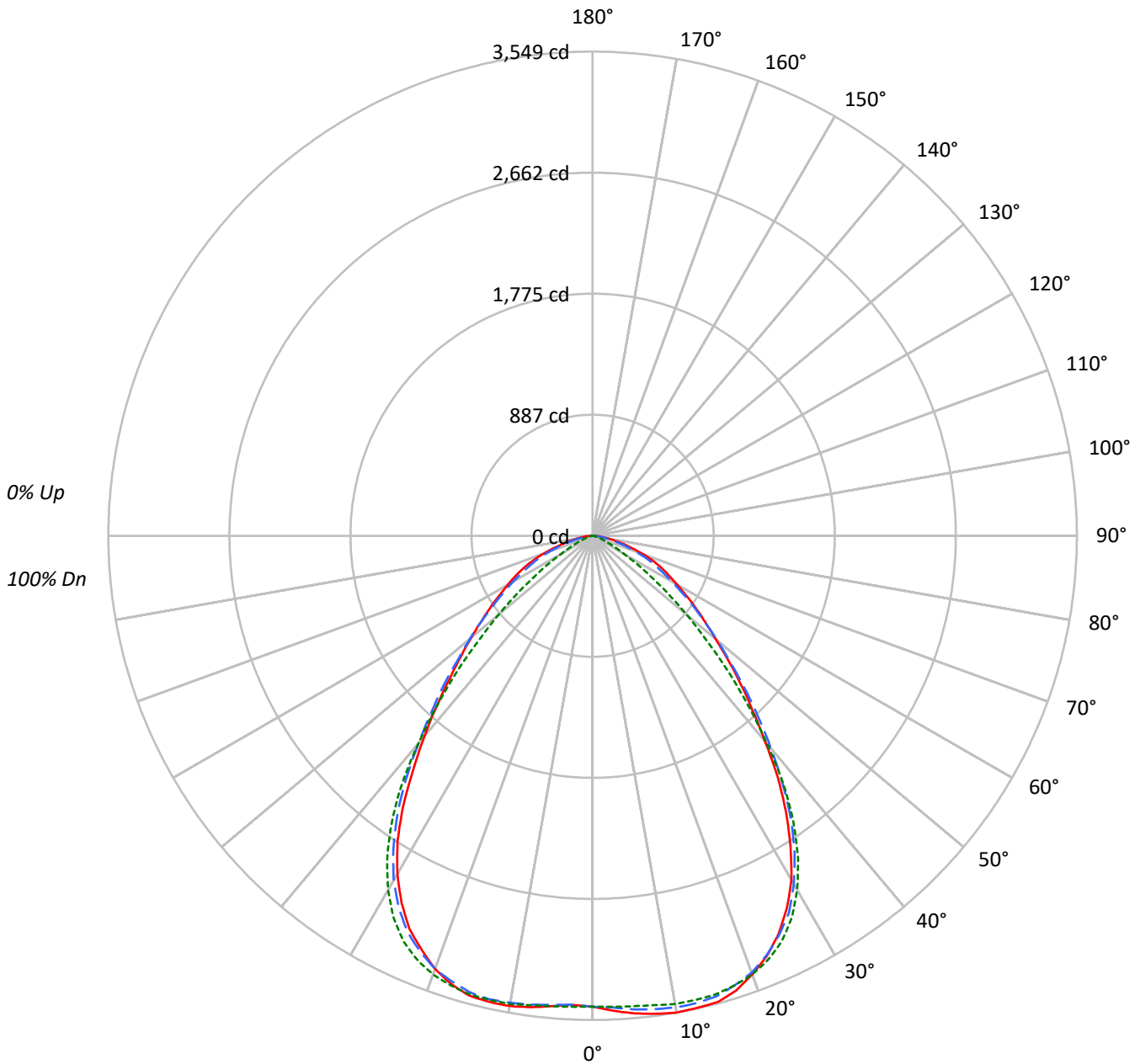
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89				89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78				78
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68				68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61				61
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54				54
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48				48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44				44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	225158	225158	225158
5°	230171	226654	226654
10°	235098	230891	231865
15°	239031	235080	235735
20°	237574	237574	234527
25°	231914	236133	228754
30°	219537	225789	215491
35°	196721	204494	192834
40°	167120	169198	162964
45°	141423	129262	136468
50°	119400	91164	117919
55°	104940	58851	103825
60°	92994	35034	93633
65°	85908	21103	85908
70°	74488	12113	72638
75°	59060	7386	55380
80°	44033	5485	42192
85°	40197	3668	36529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	4.9
10°-20°	983.4	14.4
20°-30°	1479.0	21.6
30°-40°	1555.0	22.7
40°-50°	1161.6	17.0
50°-60°	723.2	10.6
60°-70°	411.3	6.0
70°-80°	169.4	2.5
80°-90°	35.0	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°	2794.6	40.8
0°-40°	4349.6	63.5
0°-60°	6234.3	91.0
0°-90°	6850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6850.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3451	3451	3451	3451	3451	
5°	3515	3485	3461	3451	3461	336
15°	3539	3495	3480	3466	3490	995
25°	3222	3232	3280	3207	3178	1475
35°	2470	2534	2568	2494	2421	1533
45°	1533	1567	1401	1538	1479	1188
55°	923	903	517	888	913	830
65°	556	498	137	498	556	548
75°	234	186	29	181	220	255
85°	54	34	5	29	49	60
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°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3485.3	3480.5	3485.3	3475.6	3470.7	3470.7	3475.6	3465.8	3460.9	3465.8	3460.9
5°	3514.6	3504.9	3509.8	3504.9	3495.1	3495.1	3500.0	3485.3	3485.3	3490.2	3485.3
7.5°	3534.2	3534.2	3534.2	3524.4	3519.5	3514.6	3524.4	3509.8	3504.9	3504.9	3500.0
10°	3548.8	3543.9	3548.8	3539.0	3529.3	3524.4	3534.2	3524.4	3514.6	3524.4	3509.8
12.5°	3543.9	3543.9	3543.9	3539.0	3529.3	3524.4	3534.2	3519.5	3514.6	3519.5	3509.8
15°	3539.0	3524.4	3529.3	3524.4	3509.8	3509.8	3514.6	3500.0	3490.2	3504.9	3495.1
17.5°	3495.1	3485.3	3490.2	3480.5	3470.7	3465.8	3470.7	3465.8	3456.1	3465.8	3456.1
20°	3421.9	3421.9	3426.8	3417.0	3407.2	3402.4	3412.1	3402.4	3392.6	3407.2	3407.2
22.5°	3334.0	3334.0	3334.0	3329.1	3324.3	3324.3	3324.3	3319.4	3314.5	3324.3	3329.1
25°	3221.7	3216.9	3221.7	3226.6	3221.7	3216.9	3221.7	3221.7	3212.0	3231.5	3231.5
27.5°	3080.2	3080.2	3090.0	3085.1	3085.1	3080.2	3090.0	3090.0	3085.1	3099.7	3114.4
30°	2914.2	2904.5	2914.2	2914.2	2919.1	2919.1	2924.0	2924.0	2924.0	2938.6	2948.4
32.5°	2699.4	2704.3	2719.0	2714.1	2709.2	2723.8	2723.8	2733.6	2738.5	2748.2	2753.1
35°	2470.0	2474.9	2474.9	2479.8	2489.5	2479.8	2504.2	2499.3	2504.2	2523.7	2533.5
37.5°	2225.9	2211.3	2235.7	2225.9	2230.8	2230.8	2240.6	2245.5	2260.1	2284.5	2284.5
40°	1962.3	1967.2	1977.0	1981.9	1986.7	1986.7	1986.7	2001.4	2006.3	2035.6	2030.7
42.5°	1732.9	1732.9	1742.7	1747.6	1747.6	1747.6	1747.6	1762.2	1772.0	1781.7	1791.5
45°	1532.8	1518.1	1527.9	1527.9	1537.7	1532.8	1542.5	1552.3	1557.2	1571.8	1566.9
47.5°	1342.4	1337.5	1342.4	1347.3	1342.4	1347.3	1352.2	1357.0	1361.9	1361.9	1361.9
50°	1176.4	1176.4	1181.3	1186.2	1186.2	1186.2	1186.2	1191.1	1191.1	1200.8	1191.1
52.5°	1039.7	1044.6	1044.6	1039.7	1044.6	1044.6	1049.5	1049.5	1044.6	1044.6	1030.0
55°	922.6	917.7	922.6	917.7	922.6	922.6	917.7	917.7	912.8	907.9	903.1
57.5°	810.3	810.3	810.3	810.3	805.4	810.3	805.4	800.6	800.6	790.8	776.1
60°	712.7	712.7	712.7	712.7	712.7	707.8	712.7	707.8	698.0	688.3	668.8
62.5°	629.7	624.8	629.7	624.8	624.8	619.9	619.9	615.1	605.3	595.5	576.0
65°	556.5	561.4	556.5	556.5	551.6	546.7	546.7	541.8	527.2	517.4	497.9
67.5°	478.4	473.5	473.5	473.5	468.6	468.6	468.6	458.9	449.1	434.4	414.9
70°	390.5	390.5	390.5	385.6	385.6	380.8	380.8	375.9	366.1	356.3	331.9
72.5°	307.5	307.5	307.5	297.8	302.6	297.8	297.8	288.0	283.1	268.5	253.8
75°	234.3	234.3	229.4	229.4	224.5	219.7	219.7	214.8	209.9	200.1	185.5
77.5°	170.9	170.9	170.9	166.0	161.1	156.2	156.2	151.3	146.4	141.6	131.8
80°	117.2	117.2	117.2	117.2	112.3	107.4	107.4	102.5	102.5	97.6	87.9
82.5°	78.1	78.1	78.1	78.1	73.2	73.2	73.2	68.3	63.5	63.5	53.7
85°	53.7	53.7	48.8	48.8	48.8	48.8	43.9	43.9	39.1	34.2	34.2
87.5°	29.3	29.3	29.3	29.3	24.4	24.4	24.4	24.4	19.5	19.5	14.6
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°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3475.6	3475.6	3470.7	3456.1	3460.9	3456.1	3460.9	3456.1	3441.4	3456.1	3441.4
5°	3495.1	3500.0	3490.2	3470.7	3475.6	3470.7	3470.7	3465.8	3451.2	3460.9	3451.2
7.5°	3514.6	3509.8	3504.9	3485.3	3490.2	3485.3	3485.3	3475.6	3460.9	3470.7	3456.1
10°	3524.4	3524.4	3514.6	3495.1	3495.1	3490.2	3495.1	3490.2	3470.7	3485.3	3475.6
12.5°	3524.4	3519.5	3519.5	3495.1	3500.0	3495.1	3500.0	3490.2	3475.6	3485.3	3480.5
15°	3509.8	3509.8	3504.9	3480.5	3485.3	3485.3	3490.2	3480.5	3465.8	3480.5	3470.7
17.5°	3480.5	3480.5	3475.6	3456.1	3465.8	3465.8	3470.7	3460.9	3446.3	3456.1	3456.1
20°	3421.9	3426.8	3426.8	3412.1	3421.9	3421.9	3426.8	3421.9	3417.0	3421.9	3412.1
22.5°	3353.5	3363.3	3363.3	3348.7	3358.4	3358.4	3373.1	3368.2	3358.4	3363.3	3358.4
25°	3251.0	3260.8	3270.6	3260.8	3270.6	3270.6	3285.2	3280.3	3270.6	3280.3	3265.7
27.5°	3133.9	3138.8	3148.5	3138.8	3153.4	3148.5	3163.2	3158.3	3143.6	3158.3	3153.4
30°	2967.9	2987.4	3002.1	2987.4	3002.1	3002.1	3011.8	3007.0	3002.1	2997.2	2997.2
32.5°	2782.4	2801.9	2801.9	2797.1	2806.8	2806.8	2811.7	2801.9	2797.1	2801.9	2806.8
35°	2553.0	2562.8	2572.5	2567.6	2572.5	2577.4	2572.5	2577.4	2562.8	2567.6	2567.6
37.5°	2304.0	2313.8	2313.8	2299.2	2308.9	2308.9	2299.2	2299.2	2289.4	2299.2	2279.6
40°	2040.4	2030.7	2035.6	2025.8	2016.0	2016.0	2011.2	1991.6	1981.9	1986.7	1991.6
42.5°	1781.7	1781.7	1767.1	1742.7	1718.3	1718.3	1703.6	1693.9	1674.3	1684.1	1679.2
45°	1562.1	1537.7	1518.1	1479.1	1464.4	1454.7	1430.3	1405.9	1396.1	1401.0	1396.1
47.5°	1352.2	1332.6	1283.8	1230.1	1215.5	1200.8	1171.5	1142.3	1132.5	1122.7	1122.7
50°	1176.4	1142.3	1088.6	1030.0	1005.6	981.2	942.1	912.8	893.3	898.2	898.2
52.5°	1015.3	976.3	912.8	839.6	810.3	781.0	746.9	712.7	698.0	693.2	693.2
55°	873.8	829.8	766.4	683.4	659.0	624.8	580.9	541.8	522.3	517.4	527.2
57.5°	746.9	707.8	634.6	551.6	522.3	488.1	444.2	410.0	385.6	380.8	385.6
60°	644.3	590.7	527.2	449.1	410.0	380.8	331.9	302.6	278.2	268.5	273.4
62.5°	541.8	493.0	429.6	351.5	322.2	292.9	249.0	214.8	195.3	190.4	195.3
65°	463.7	414.9	356.3	288.0	258.7	229.4	190.4	156.2	141.6	136.7	141.6
67.5°	385.6	341.7	292.9	229.4	205.0	180.6	141.6	117.2	97.6	92.7	97.6
70°	312.4	273.4	224.5	180.6	156.2	136.7	107.4	83.0	68.3	63.5	68.3
72.5°	234.3	205.0	170.9	131.8	117.2	102.5	78.1	58.6	48.8	43.9	48.8
75°	170.9	146.4	122.0	92.7	83.0	73.2	53.7	39.1	34.2	29.3	34.2
77.5°	117.2	102.5	83.0	63.5	53.7	48.8	34.2	29.3	24.4	19.5	19.5
80°	78.1	68.3	53.7	43.9	39.1	34.2	24.4	19.5	14.6	14.6	14.6
82.5°	48.8	39.1	34.2	24.4	19.5	19.5	14.6	9.8	9.8	9.8	9.8
85°	29.3	24.4	19.5	14.6	9.8	9.8	4.9	4.9	4.9	4.9	4.9
87.5°	14.6	9.8	9.8	4.9	4.9	4.9	4.9	4.9	0.0	0.0	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°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3451.2	3441.4	3441.4	3446.3	3451.2	3456.1	3446.3	3441.4	3441.4	3456.1	3446.3
5°	3451.2	3446.3	3446.3	3446.3	3456.1	3460.9	3451.2	3446.3	3451.2	3465.8	3460.9
7.5°	3465.8	3456.1	3460.9	3460.9	3465.8	3475.6	3465.8	3460.9	3465.8	3480.5	3470.7
10°	3475.6	3465.8	3470.7	3465.8	3480.5	3485.3	3475.6	3470.7	3475.6	3495.1	3490.2
12.5°	3480.5	3475.6	3475.6	3470.7	3485.3	3490.2	3480.5	3475.6	3480.5	3495.1	3490.2
15°	3470.7	3465.8	3465.8	3465.8	3475.6	3485.3	3470.7	3465.8	3465.8	3480.5	3475.6
17.5°	3451.2	3441.4	3441.4	3441.4	3446.3	3451.2	3436.5	3431.7	3426.8	3441.4	3436.5
20°	3417.0	3407.2	3397.5	3397.5	3402.4	3402.4	3392.6	3378.0	3378.0	3382.8	3373.1
22.5°	3353.5	3348.7	3338.9	3334.0	3343.8	3338.9	3319.4	3304.7	3299.9	3304.7	3295.0
25°	3265.7	3255.9	3251.0	3246.2	3251.0	3246.2	3226.6	3207.1	3207.1	3207.1	3192.5
27.5°	3143.6	3133.9	3129.0	3129.0	3133.9	3124.1	3104.6	3085.1	3075.3	3075.3	3060.7
30°	2987.4	2987.4	2982.6	2977.7	2972.8	2972.8	2943.5	2924.0	2914.2	2919.1	2909.3
32.5°	2797.1	2792.2	2787.3	2772.7	2777.5	2772.7	2748.2	2733.6	2719.0	2709.2	2704.3
35°	2553.0	2553.0	2548.1	2548.1	2548.1	2543.2	2518.8	2504.2	2494.4	2489.5	2474.9
37.5°	2284.5	2279.6	2274.7	2274.7	2274.7	2274.7	2260.1	2245.5	2245.5	2240.6	2230.8
40°	1981.9	1986.7	1991.6	1986.7	2001.4	2016.0	1996.5	1986.7	1981.9	1996.5	1977.0
42.5°	1689.0	1684.1	1708.5	1713.4	1713.4	1737.8	1742.7	1747.6	1742.7	1752.4	1752.4
45°	1405.9	1401.0	1425.4	1435.1	1459.5	1488.8	1503.5	1527.9	1537.7	1547.4	1537.7
47.5°	1137.4	1156.9	1176.4	1200.8	1220.4	1269.2	1298.5	1322.9	1332.6	1347.3	1347.3
50°	912.8	932.4	966.5	986.1	1010.5	1069.0	1117.8	1152.0	1171.5	1186.2	1181.3
52.5°	702.9	737.1	781.0	800.6	834.7	903.1	956.8	995.8	1020.2	1034.9	1039.7
55°	541.8	571.1	615.1	644.3	678.5	751.7	820.1	864.0	888.4	907.9	917.7
57.5°	400.3	434.4	483.3	507.7	546.7	629.7	688.3	742.0	771.3	795.7	800.6
60°	292.9	327.1	371.0	400.3	439.3	522.3	590.7	639.5	673.6	693.2	702.9
62.5°	209.9	244.1	288.0	317.3	351.5	424.7	493.0	541.8	576.0	600.4	615.1
65°	151.3	185.5	229.4	253.8	283.1	351.5	414.9	463.7	497.9	527.2	537.0
67.5°	112.3	136.7	175.7	200.1	229.4	283.1	336.8	380.8	414.9	439.3	449.1
70°	83.0	102.5	136.7	151.3	170.9	219.7	263.6	302.6	331.9	351.5	361.2
72.5°	58.6	73.2	97.6	112.3	126.9	166.0	200.1	229.4	249.0	268.5	278.2
75°	39.1	48.8	68.3	78.1	87.9	117.2	141.6	166.0	180.6	195.3	200.1
77.5°	24.4	34.2	48.8	53.7	63.5	78.1	97.6	112.3	122.0	131.8	141.6
80°	14.6	19.5	29.3	34.2	39.1	53.7	63.5	73.2	83.0	92.7	97.6
82.5°	9.8	14.6	19.5	19.5	24.4	29.3	39.1	48.8	53.7	58.6	63.5
85°	4.9	4.9	9.8	9.8	14.6	14.6	19.5	24.4	29.3	34.2	39.1
87.5°	4.9	4.9	4.9	4.9	9.8	9.8	14.6	14.6	14.6	19.5	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



TEST NUMBER: P252743

CATALOG NUMBER: LD6B70D010TE EU6B60708050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3436.5	3451.2	3436.5	3446.3	3441.4	3441.4	3436.5	3441.4
5°	3451.2	3470.7	3451.2	3465.8	3456.1	3456.1	3456.1	3460.9
7.5°	3465.8	3485.3	3470.7	3485.3	3480.5	3475.6	3475.6	3485.3
10°	3480.5	3495.1	3485.3	3500.0	3495.1	3490.2	3490.2	3500.0
12.5°	3480.5	3500.0	3490.2	3504.9	3500.0	3495.1	3495.1	3500.0
15°	3465.8	3490.2	3475.6	3490.2	3485.3	3480.5	3480.5	3490.2
17.5°	3421.9	3441.4	3431.7	3441.4	3441.4	3436.5	3441.4	3446.3
20°	3363.3	3378.0	3368.2	3378.0	3378.0	3368.2	3373.1	3378.0
22.5°	3280.3	3295.0	3285.2	3295.0	3290.1	3285.2	3285.2	3280.3
25°	3177.8	3197.3	3182.7	3192.5	3182.7	3172.9	3172.9	3177.8
27.5°	3050.9	3065.5	3046.0	3055.8	3046.0	3036.3	3036.3	3031.4
30°	2884.9	2889.8	2875.2	2884.9	2875.2	2870.3	2860.5	2860.5
32.5°	2684.8	2689.7	2675.0	2675.0	2665.3	2665.3	2645.7	2660.4
35°	2450.5	2455.4	2450.5	2445.6	2431.0	2426.1	2421.2	2421.2
37.5°	2206.4	2206.4	2191.8	2186.9	2177.1	2167.4	2172.2	2157.6
40°	1957.5	1952.6	1937.9	1942.8	1937.9	1923.3	1918.4	1913.5
42.5°	1723.1	1723.1	1708.5	1713.4	1703.6	1698.7	1684.1	1689.0
45°	1518.1	1518.1	1503.5	1503.5	1498.6	1484.0	1488.8	1479.1
47.5°	1332.6	1332.6	1327.8	1327.8	1313.1	1308.2	1308.2	1308.2
50°	1171.5	1171.5	1171.5	1171.5	1166.7	1161.8	1156.9	1161.8
52.5°	1034.9	1044.6	1039.7	1039.7	1034.9	1030.0	1025.1	1025.1
55°	912.8	917.7	917.7	922.6	917.7	912.8	917.7	912.8
57.5°	805.4	815.2	815.2	815.2	815.2	815.2	810.3	805.4
60°	712.7	717.6	717.6	722.5	722.5	722.5	717.6	717.6
62.5°	619.9	629.7	634.6	634.6	639.5	634.6	634.6	634.6
65°	546.7	556.5	561.4	556.5	561.4	561.4	556.5	556.5
67.5°	458.9	468.6	468.6	468.6	468.6	473.5	468.6	468.6
70°	371.0	380.8	375.9	380.8	380.8	380.8	380.8	380.8
72.5°	283.1	288.0	292.9	292.9	297.8	292.9	292.9	292.9
75°	205.0	214.8	214.8	214.8	214.8	219.7	219.7	219.7
77.5°	146.4	151.3	151.3	156.2	156.2	156.2	156.2	161.1
80°	102.5	102.5	107.4	107.4	112.3	112.3	112.3	112.3
82.5°	68.3	73.2	73.2	73.2	73.2	73.2	73.2	73.2
85°	39.1	43.9	43.9	43.9	43.9	48.8	48.8	48.8
87.5°	24.4	24.4	24.4	24.4	24.4	24.4	19.5	19.5
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)