

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: P252742

Luminaire Tested: **LD6B70D010TE EU6B60708040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252742
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 EU6B60708040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6854.0 lumens
Efficiency: N/A
Efficacy: 86.3 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

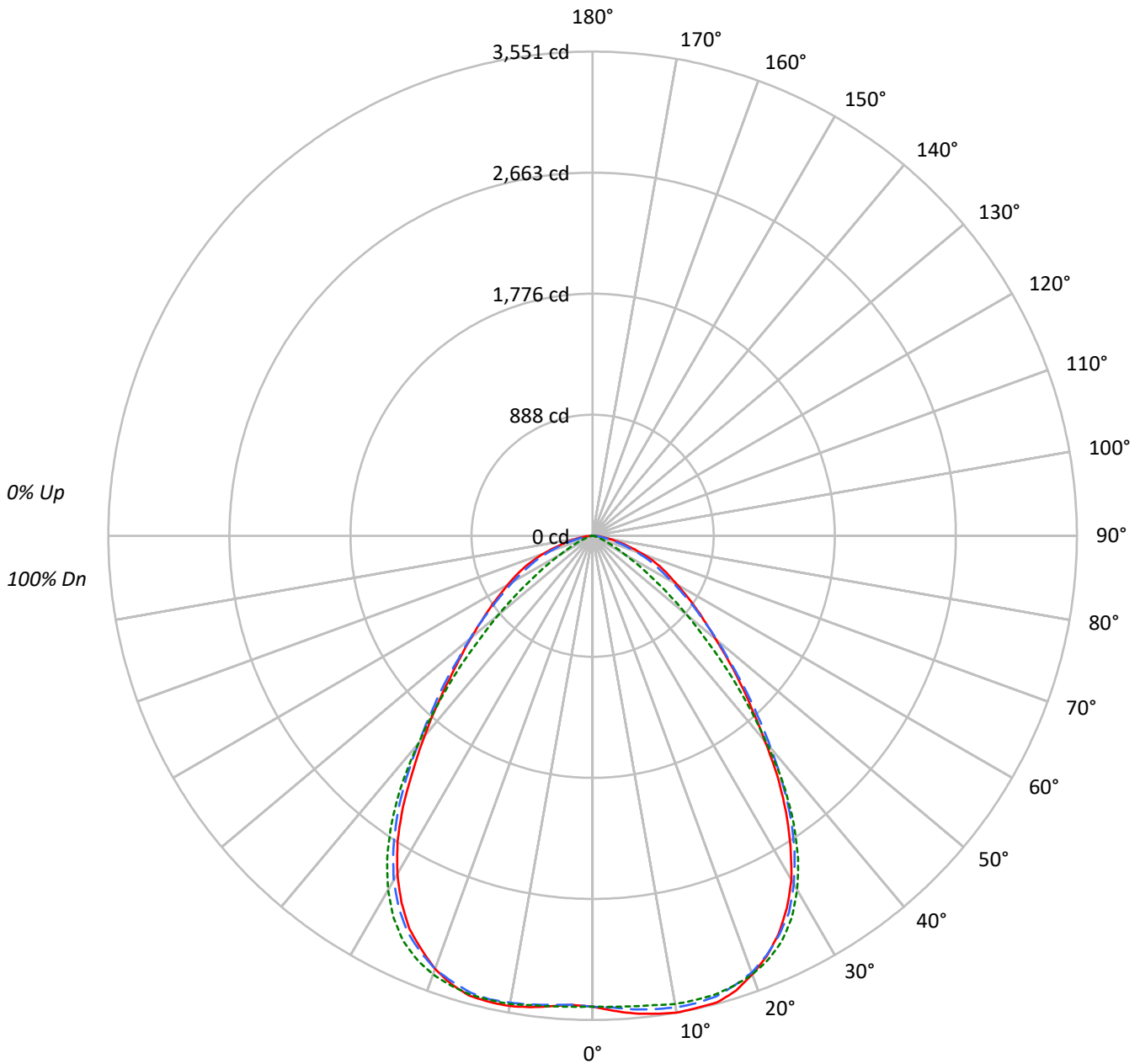
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	225289	225289	225289
5°	230308	226791	226791
10°	235237	231030	231997
15°	239173	235215	235877
20°	237713	237713	234658
25°	232051	236269	228891
30°	219665	225925	215619
35°	196832	204614	192946
40°	167223	169301	163058
45°	141506	129336	136542
50°	119471	91215	117990
55°	104997	58885	103893
60°	93046	35047	93686
65°	85955	21118	85955
70°	74526	12113	72676
75°	59085	7386	55405
80°	44033	5523	42192
85°	40197	3668	36529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.5	4.9
10°-20°	983.9	14.4
20°-30°	1479.8	21.6
30°-40°	1555.9	22.7
40°-50°	1162.3	17.0
50°-60°	723.6	10.6
60°-70°	411.5	6.0
70°-80°	169.5	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°	2796.2	40.8
0°-40°	4352.1	63.5
0°-60°	6238.0	91.0
0°-90°	6854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6854.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3453	3453	3453	3453	3453	
5°	3517	3487	3463	3453	3463	337
15°	3541	3497	3482	3468	3492	996
25°	3224	3233	3282	3209	3180	1476
35°	2471	2535	2569	2496	2423	1534
45°	1534	1568	1402	1539	1480	1188
55°	923	904	518	889	913	830
65°	557	498	137	498	557	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°	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2
2.5°	3487.4	3482.5	3487.4	3477.6	3472.7	3472.7	3477.6	3467.8	3463.0	3467.8	3463.0
5°	3516.7	3506.9	3511.8	3506.9	3497.2	3497.2	3502.0	3487.4	3487.4	3492.3	3487.4
7.5°	3536.2	3536.2	3536.2	3526.5	3521.6	3516.7	3526.5	3511.8	3506.9	3506.9	3502.0
10°	3550.9	3546.0	3550.9	3541.1	3531.3	3526.5	3536.2	3526.5	3516.7	3526.5	3511.8
12.5°	3546.0	3546.0	3546.0	3541.1	3531.3	3526.5	3536.2	3521.6	3516.7	3521.6	3511.8
15°	3541.1	3526.5	3531.3	3526.5	3511.8	3511.8	3516.7	3502.0	3492.3	3506.9	3497.2
17.5°	3497.2	3487.4	3492.3	3482.5	3472.7	3467.8	3472.7	3467.8	3458.1	3467.8	3458.1
20°	3423.9	3423.9	3428.8	3419.0	3409.2	3404.3	3414.1	3404.3	3394.6	3409.2	3409.2
22.5°	3336.0	3336.0	3336.0	3331.1	3326.2	3326.2	3326.2	3321.3	3316.4	3326.2	3331.1
25°	3223.6	3218.7	3223.6	3228.5	3223.6	3218.7	3223.6	3223.6	3213.9	3233.4	3233.4
27.5°	3082.0	3082.0	3091.8	3086.9	3086.9	3082.0	3091.8	3091.8	3086.9	3101.5	3116.2
30°	2915.9	2906.2	2915.9	2915.9	2920.8	2920.8	2925.7	2925.7	2925.7	2940.3	2950.1
32.5°	2701.0	2705.9	2720.5	2715.7	2710.8	2725.4	2725.4	2735.2	2740.1	2749.9	2754.7
35°	2471.4	2476.3	2476.3	2481.2	2491.0	2481.2	2505.6	2500.8	2505.6	2525.2	2534.9
37.5°	2227.2	2212.6	2237.0	2227.2	2232.1	2232.1	2241.9	2246.8	2261.4	2285.8	2285.8
40°	1963.5	1968.4	1978.1	1983.0	1987.9	1987.9	1987.9	2002.6	2007.4	2036.7	2031.9
42.5°	1733.9	1733.9	1743.7	1748.6	1748.6	1748.6	1748.6	1763.2	1773.0	1782.8	1792.5
45°	1533.7	1519.0	1528.8	1528.8	1538.6	1533.7	1543.4	1553.2	1558.1	1572.7	1567.9
47.5°	1343.2	1338.3	1343.2	1348.1	1343.2	1348.1	1352.9	1357.8	1362.7	1362.7	1362.7
50°	1177.1	1177.1	1182.0	1186.9	1186.9	1186.9	1186.9	1191.8	1191.8	1201.5	1191.8
52.5°	1040.4	1045.2	1045.2	1040.4	1045.2	1045.2	1050.1	1050.1	1045.2	1045.2	1030.6
55°	923.1	918.2	923.1	918.2	923.1	923.1	918.2	918.2	913.4	908.5	903.6
57.5°	810.8	810.8	810.8	810.8	805.9	810.8	805.9	801.0	801.0	791.3	776.6
60°	713.1	713.1	713.1	713.1	713.1	708.2	713.1	708.2	698.5	688.7	669.1
62.5°	630.1	625.2	630.1	625.2	625.2	620.3	620.3	615.4	605.7	595.9	576.3
65°	556.8	561.7	556.8	556.8	551.9	547.0	547.0	542.2	527.5	517.7	498.2
67.5°	478.7	473.8	473.8	473.8	468.9	468.9	468.9	459.1	449.4	434.7	415.2
70°	390.7	390.7	390.7	385.9	385.9	381.0	381.0	376.1	366.3	356.6	332.1
72.5°	307.7	307.7	307.7	297.9	302.8	297.9	297.9	288.2	283.3	268.6	254.0
75°	234.4	234.4	229.6	229.6	224.7	219.8	219.8	214.9	210.0	200.3	185.6
77.5°	171.0	171.0	171.0	166.1	161.2	156.3	156.3	151.4	146.5	141.6	131.9
80°	117.2	117.2	117.2	117.2	112.3	107.5	107.5	102.6	102.6	97.7	87.9
82.5°	78.1	78.1	78.1	78.1	73.3	73.3	73.3	68.4	63.5	63.5	53.7
85°	53.7	53.7	48.8	48.8	48.8	48.8	44.0	44.0	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	14.7
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°	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2
2.5°	3477.6	3477.6	3472.7	3458.1	3463.0	3458.1	3463.0	3458.1	3443.4	3458.1	3443.4
5°	3497.2	3502.0	3492.3	3472.7	3477.6	3472.7	3472.7	3467.8	3453.2	3463.0	3453.2
7.5°	3516.7	3511.8	3506.9	3487.4	3492.3	3487.4	3487.4	3477.6	3463.0	3472.7	3458.1
10°	3526.5	3526.5	3516.7	3497.2	3497.2	3492.3	3497.2	3492.3	3472.7	3487.4	3477.6
12.5°	3526.5	3521.6	3521.6	3497.2	3502.0	3497.2	3502.0	3492.3	3477.6	3487.4	3482.5
15°	3511.8	3511.8	3506.9	3482.5	3487.4	3487.4	3492.3	3482.5	3467.8	3482.5	3472.7
17.5°	3482.5	3482.5	3477.6	3458.1	3467.8	3467.8	3472.7	3463.0	3448.3	3458.1	3458.1
20°	3423.9	3428.8	3428.8	3414.1	3423.9	3423.9	3428.8	3423.9	3419.0	3423.9	3414.1
22.5°	3355.5	3365.3	3365.3	3350.6	3360.4	3360.4	3375.0	3370.2	3360.4	3365.3	3360.4
25°	3252.9	3262.7	3272.5	3262.7	3272.5	3272.5	3287.1	3282.2	3272.5	3282.2	3267.6
27.5°	3135.7	3140.6	3150.4	3140.6	3155.3	3150.4	3165.0	3160.1	3145.5	3160.1	3155.3
30°	2969.6	2989.2	3003.8	2989.2	3003.8	3003.8	3013.6	3008.7	3003.8	2999.0	2999.0
32.5°	2784.0	2803.6	2803.6	2798.7	2808.5	2808.5	2813.4	2803.6	2798.7	2803.6	2808.5
35°	2554.5	2564.3	2574.0	2569.1	2574.0	2578.9	2574.0	2578.9	2564.3	2569.1	2569.1
37.5°	2305.4	2315.2	2315.2	2300.5	2310.3	2310.3	2300.5	2300.5	2290.7	2300.5	2281.0
40°	2041.6	2031.9	2036.7	2027.0	2017.2	2017.2	2012.3	1992.8	1983.0	1987.9	1992.8
42.5°	1782.8	1782.8	1768.1	1743.7	1719.3	1719.3	1704.6	1694.8	1675.3	1685.1	1680.2
45°	1563.0	1538.6	1519.0	1479.9	1465.3	1455.5	1431.1	1406.7	1396.9	1401.8	1396.9
47.5°	1352.9	1333.4	1284.6	1230.8	1216.2	1201.5	1172.2	1142.9	1133.2	1123.4	1123.4
50°	1177.1	1142.9	1089.2	1030.6	1006.2	981.7	942.7	913.4	893.8	898.7	898.7
52.5°	1015.9	976.9	913.4	840.1	810.8	781.5	747.3	713.1	698.5	693.6	693.6
55°	874.3	830.3	766.8	683.8	659.4	625.2	581.2	542.2	522.6	517.7	527.5
57.5°	747.3	708.2	635.0	551.9	522.6	488.4	444.5	410.3	385.9	381.0	385.9
60°	644.7	591.0	527.5	449.4	410.3	381.0	332.1	302.8	278.4	268.6	273.5
62.5°	542.2	493.3	429.8	351.7	322.4	293.1	249.1	214.9	195.4	190.5	195.4
65°	464.0	415.2	356.6	288.2	258.9	229.6	190.5	156.3	141.6	136.8	141.6
67.5°	385.9	341.9	293.1	229.6	205.1	180.7	141.6	117.2	97.7	92.8	97.7
70°	312.6	273.5	224.7	180.7	156.3	136.8	107.5	83.0	68.4	63.5	68.4
72.5°	234.4	205.1	171.0	131.9	117.2	102.6	78.1	58.6	48.8	44.0	48.8
75°	171.0	146.5	122.1	92.8	83.0	73.3	53.7	39.1	34.2	29.3	34.2
77.5°	117.2	102.6	83.0	63.5	53.7	48.8	34.2	29.3	24.4	19.5	19.5
80°	78.1	68.4	53.7	44.0	39.1	34.2	24.4	19.5	14.7	14.7	14.7
82.5°	48.8	39.1	34.2	24.4	19.5	19.5	14.7	9.8	9.8	9.8	9.8
85°	29.3	24.4	19.5	14.7	9.8	9.8	4.9	4.9	4.9	4.9	4.9
87.5°	14.7	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°	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2
2.5°	3453.2	3443.4	3443.4	3448.3	3453.2	3458.1	3448.3	3443.4	3443.4	3458.1	3448.3
5°	3453.2	3448.3	3448.3	3448.3	3458.1	3463.0	3453.2	3448.3	3453.2	3467.8	3463.0
7.5°	3467.8	3458.1	3463.0	3463.0	3467.8	3477.6	3467.8	3463.0	3467.8	3482.5	3472.7
10°	3477.6	3467.8	3472.7	3467.8	3482.5	3487.4	3477.6	3472.7	3477.6	3497.2	3492.3
12.5°	3482.5	3477.6	3477.6	3472.7	3487.4	3492.3	3482.5	3477.6	3482.5	3497.2	3492.3
15°	3472.7	3467.8	3467.8	3467.8	3477.6	3487.4	3472.7	3467.8	3467.8	3482.5	3477.6
17.5°	3453.2	3443.4	3443.4	3443.4	3448.3	3453.2	3438.5	3433.7	3428.8	3443.4	3438.5
20°	3419.0	3409.2	3399.5	3399.5	3404.3	3404.3	3394.6	3379.9	3379.9	3384.8	3375.0
22.5°	3355.5	3350.6	3340.9	3336.0	3345.7	3340.9	3321.3	3306.7	3301.8	3306.7	3296.9
25°	3267.6	3257.8	3252.9	3248.1	3252.9	3248.1	3228.5	3209.0	3209.0	3209.0	3194.3
27.5°	3145.5	3135.7	3130.8	3130.8	3135.7	3125.9	3106.4	3086.9	3077.1	3077.1	3062.4
30°	2989.2	2989.2	2984.3	2979.4	2974.5	2974.5	2945.2	2925.7	2915.9	2920.8	2911.0
32.5°	2798.7	2793.8	2788.9	2774.3	2779.2	2774.3	2749.9	2735.2	2720.5	2710.8	2705.9
35°	2554.5	2554.5	2549.6	2549.6	2549.6	2544.7	2520.3	2505.6	2495.9	2491.0	2476.3
37.5°	2285.8	2281.0	2276.1	2276.1	2276.1	2276.1	2261.4	2246.8	2246.8	2241.9	2232.1
40°	1983.0	1987.9	1992.8	1987.9	2002.6	2017.2	1997.7	1987.9	1983.0	1997.7	1978.1
42.5°	1690.0	1685.1	1709.5	1714.4	1714.4	1738.8	1743.7	1748.6	1743.7	1753.5	1753.5
45°	1406.7	1401.8	1426.2	1436.0	1460.4	1489.7	1504.4	1528.8	1538.6	1548.3	1538.6
47.5°	1138.0	1157.6	1177.1	1201.5	1221.1	1269.9	1299.2	1323.6	1333.4	1348.1	1348.1
50°	913.4	932.9	967.1	986.6	1011.0	1069.7	1118.5	1152.7	1172.2	1186.9	1182.0
52.5°	703.3	737.5	781.5	801.0	835.2	903.6	957.3	996.4	1020.8	1035.5	1040.4
55°	542.2	571.5	615.4	644.7	678.9	752.2	820.6	864.5	888.9	908.5	918.2
57.5°	400.5	434.7	483.5	508.0	547.0	630.1	688.7	742.4	771.7	796.1	801.0
60°	293.1	327.2	371.2	400.5	439.6	522.6	591.0	639.8	674.0	693.6	703.3
62.5°	210.0	244.2	288.2	317.5	351.7	424.9	493.3	542.2	576.3	600.8	615.4
65°	151.4	185.6	229.6	254.0	283.3	351.7	415.2	464.0	498.2	527.5	537.3
67.5°	112.3	136.8	175.8	200.3	229.6	283.3	337.0	381.0	415.2	439.6	449.4
70°	83.0	102.6	136.8	151.4	171.0	219.8	263.8	302.8	332.1	351.7	361.4
72.5°	58.6	73.3	97.7	112.3	127.0	166.1	200.3	229.6	249.1	268.6	278.4
75°	39.1	48.8	68.4	78.1	87.9	117.2	141.6	166.1	180.7	195.4	200.3
77.5°	24.4	34.2	48.8	53.7	63.5	78.1	97.7	112.3	122.1	131.9	141.6
80°	14.7	19.5	29.3	34.2	39.1	53.7	63.5	73.3	83.0	92.8	97.7
82.5°	9.8	14.7	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	14.7	14.7	19.5	24.4	29.3	34.2	39.1
87.5°	4.9	4.9	4.9	4.9	9.8	9.8	14.7	14.7	14.7	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: P252742

CATALOG NUMBER: LD6B70D010TE EU6B60708040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2	3453.2
2.5°	3438.5	3453.2	3438.5	3448.3	3443.4	3443.4	3438.5	3443.4
5°	3453.2	3472.7	3453.2	3467.8	3458.1	3458.1	3458.1	3463.0
7.5°	3467.8	3487.4	3472.7	3487.4	3482.5	3477.6	3477.6	3487.4
10°	3482.5	3497.2	3487.4	3502.0	3497.2	3492.3	3492.3	3502.0
12.5°	3482.5	3502.0	3492.3	3506.9	3502.0	3497.2	3497.2	3502.0
15°	3467.8	3492.3	3477.6	3492.3	3487.4	3482.5	3482.5	3492.3
17.5°	3423.9	3443.4	3433.7	3443.4	3443.4	3438.5	3443.4	3448.3
20°	3365.3	3379.9	3370.2	3379.9	3379.9	3370.2	3375.0	3379.9
22.5°	3282.2	3296.9	3287.1	3296.9	3292.0	3287.1	3287.1	3282.2
25°	3179.7	3199.2	3184.6	3194.3	3184.6	3174.8	3174.8	3179.7
27.5°	3052.7	3067.3	3047.8	3057.6	3047.8	3038.0	3038.0	3033.1
30°	2886.6	2891.5	2876.8	2886.6	2876.8	2872.0	2862.2	2862.2
32.5°	2686.4	2691.2	2676.6	2676.6	2666.8	2666.8	2647.3	2661.9
35°	2451.9	2456.8	2451.9	2447.0	2432.4	2427.5	2422.6	2422.6
37.5°	2207.7	2207.7	2193.0	2188.2	2178.4	2168.6	2173.5	2158.9
40°	1958.6	1953.7	1939.1	1943.9	1939.1	1924.4	1919.5	1914.6
42.5°	1724.2	1724.2	1709.5	1714.4	1704.6	1699.7	1685.1	1690.0
45°	1519.0	1519.0	1504.4	1504.4	1499.5	1484.8	1489.7	1479.9
47.5°	1333.4	1333.4	1328.5	1328.5	1313.9	1309.0	1309.0	1309.0
50°	1172.2	1172.2	1172.2	1172.2	1167.3	1162.5	1157.6	1162.5
52.5°	1035.5	1045.2	1040.4	1040.4	1035.5	1030.6	1025.7	1025.7
55°	913.4	918.2	918.2	923.1	918.2	913.4	918.2	913.4
57.5°	805.9	815.7	815.7	815.7	815.7	815.7	810.8	805.9
60°	713.1	718.0	718.0	722.9	722.9	722.9	718.0	718.0
62.5°	620.3	630.1	635.0	635.0	639.8	635.0	635.0	635.0
65°	547.0	556.8	561.7	556.8	561.7	561.7	556.8	556.8
67.5°	459.1	468.9	468.9	468.9	468.9	473.8	468.9	468.9
70°	371.2	381.0	376.1	381.0	381.0	381.0	381.0	381.0
72.5°	283.3	288.2	293.1	293.1	297.9	293.1	293.1	293.1
75°	205.1	214.9	214.9	214.9	214.9	219.8	219.8	219.8
77.5°	146.5	151.4	151.4	156.3	156.3	156.3	156.3	161.2
80°	102.6	102.6	107.5	107.5	112.3	112.3	112.3	112.3
82.5°	68.4	73.3	73.3	73.3	73.3	73.3	73.3	73.3
85°	39.1	44.0	44.0	44.0	44.0	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)