

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: P252325

Luminaire Tested: **LD6B70D010TE EU6B60708035 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B70D010TE EU6B60708035 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6719.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

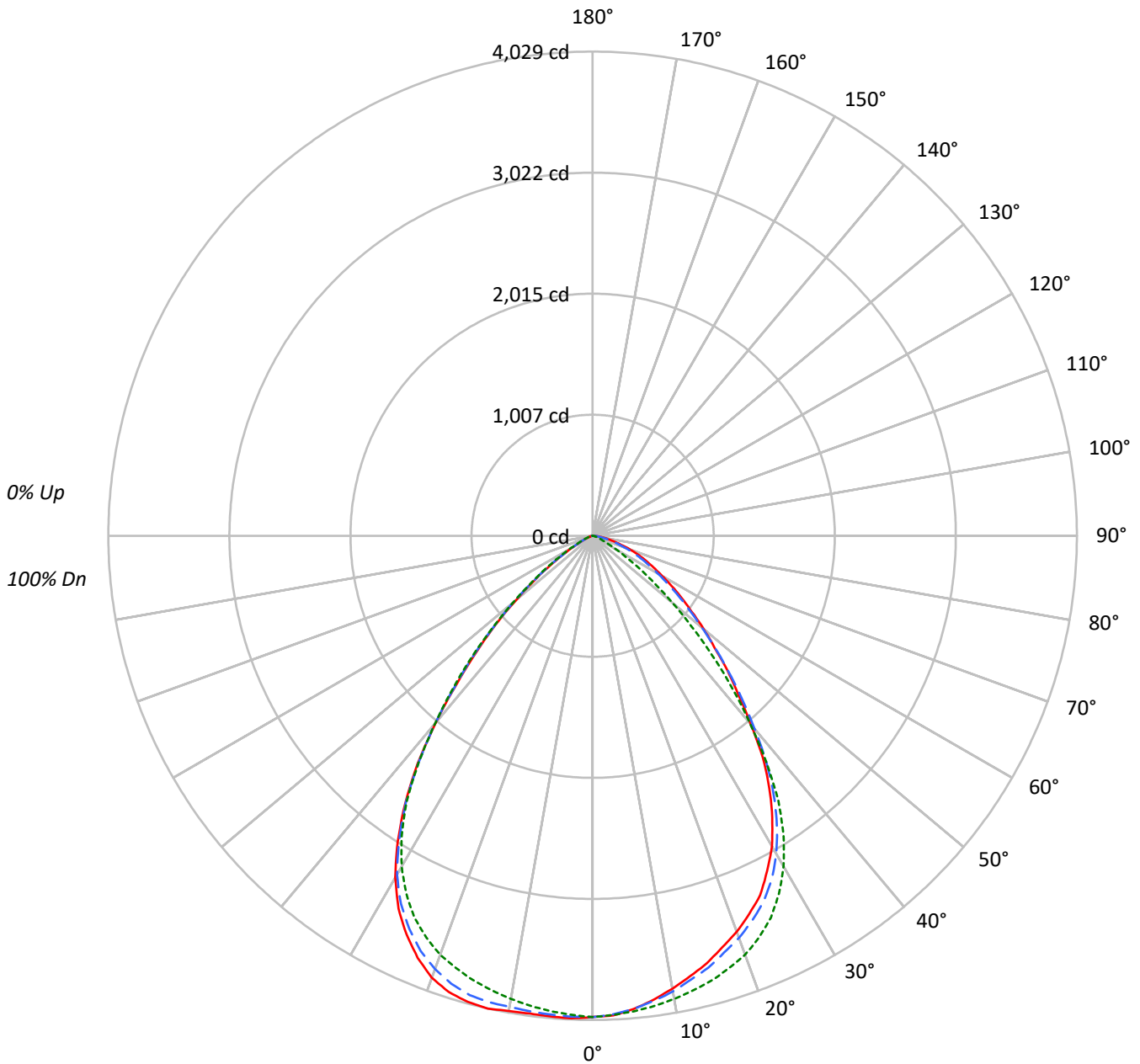
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	261282	261282	261282
5°	258796	260067	262915
10°	253461	259225	265955
15°	248616	258740	271154
20°	243462	257570	271670
25°	237464	252430	263573
30°	224825	239394	247410
35°	204168	214569	216497
40°	174249	173423	172605
45°	146377	129862	125848
50°	122242	87876	83460
55°	102881	53914	48967
60°	87096	28406	24609
65°	75411	14928	11948
70°	62738	9232	6466
75°	46331	6100	3655
80°	36331	3644	1803
85°	28969	3593	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.4	5.6
10°-20°	1080.7	16.1
20°-30°	1595.9	23.8
30°-40°	1644.7	24.5
40°-50°	1136.0	16.9
50°-60°	559.9	8.3
60°-70°	226.9	3.4
70°-80°	80.9	1.2
80°-90°	16.7	0.2
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°	3054.0	45.5
0°-40°	4698.7	69.9
0°-60°	6394.6	95.2
0°-90°	6719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6719.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4005	4005	4005	4005	4005	
5°	3952	3952	3971	4000	4015	373
15°	3681	3720	3831	3957	4015	1036
25°	3299	3362	3507	3608	3662	1508
35°	2564	2626	2694	2709	2718	1588
45°	1586	1596	1408	1388	1364	1226
55°	904	871	474	445	430	817
65°	488	440	97	77	77	485
75°	184	155	24	14	14	206
85°	39	29	5	0	0	47
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°	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9
2.5°	3995.3	3980.8	3990.4	3971.1	3995.3	3971.1	3975.9	3980.8	3975.9	3980.8	3985.6
5°	3951.7	3937.2	3951.7	3927.5	3951.7	3937.2	3937.2	3942.1	3942.1	3946.9	3951.7
7.5°	3893.7	3879.2	3893.7	3869.5	3898.5	3884.0	3884.0	3893.7	3888.9	3893.7	3903.4
10°	3826.0	3806.6	3821.1	3806.6	3835.6	3816.3	3826.0	3826.0	3826.0	3840.5	3850.2
12.5°	3753.4	3734.1	3753.4	3729.2	3758.3	3743.7	3748.6	3763.1	3767.9	3777.6	3782.4
15°	3680.9	3656.7	3666.4	3651.8	3680.9	3666.4	3671.2	3690.5	3690.5	3705.1	3719.6
17.5°	3589.0	3569.6	3589.0	3569.6	3593.8	3584.1	3593.8	3608.3	3608.3	3622.8	3637.3
20°	3506.7	3487.4	3501.9	3487.4	3516.4	3501.9	3506.7	3526.1	3530.9	3545.4	3559.9
22.5°	3405.2	3390.7	3400.3	3385.8	3414.8	3405.2	3410.0	3429.3	3434.2	3443.9	3468.0
25°	3298.8	3269.7	3284.2	3274.6	3303.6	3289.1	3298.8	3318.1	3327.8	3342.3	3361.6
27.5°	3144.0	3129.5	3139.1	3139.1	3163.3	3148.8	3153.6	3173.0	3187.5	3202.0	3226.2
30°	2984.4	2960.2	2969.8	2974.7	2994.0	2984.4	2994.0	3013.4	3018.2	3037.6	3056.9
32.5°	2781.2	2771.5	2790.9	2781.2	2790.9	2790.9	2795.7	2810.2	2819.9	2829.6	2853.8
35°	2563.5	2544.2	2563.5	2553.9	2578.1	2563.5	2578.1	2592.6	2592.6	2611.9	2626.4
37.5°	2326.5	2302.4	2312.0	2312.0	2321.7	2316.9	2316.9	2341.1	2345.9	2360.4	2374.9
40°	2046.0	2036.3	2055.7	2050.8	2055.7	2055.7	2060.5	2075.0	2084.7	2089.5	2094.4
42.5°	1794.5	1799.3	1804.2	1804.2	1804.2	1804.2	1804.2	1823.5	1818.7	1833.2	1838.0
45°	1586.5	1567.1	1576.8	1572.0	1586.5	1572.0	1586.5	1601.0	1591.3	1605.8	1596.2
47.5°	1373.7	1373.7	1373.7	1368.8	1378.5	1373.7	1383.3	1388.2	1388.2	1388.2	1383.3
50°	1204.4	1189.9	1194.7	1194.7	1199.5	1194.7	1204.4	1209.2	1209.2	1199.5	1180.2
52.5°	1039.9	1035.1	1035.1	1044.8	1044.8	1039.9	1039.9	1039.9	1039.9	1025.4	1015.7
55°	904.5	894.8	899.7	899.7	899.7	899.7	904.5	899.7	899.7	885.1	870.6
57.5°	783.6	773.9	773.9	773.9	778.7	773.9	773.9	773.9	769.1	754.6	735.2
60°	667.5	662.7	667.5	667.5	672.3	667.5	667.5	667.5	657.8	643.3	624.0
62.5°	570.8	570.8	570.8	575.6	575.6	570.8	570.8	565.9	561.1	541.7	522.4
65°	488.5	483.7	488.5	488.5	493.4	493.4	488.5	483.7	478.9	459.5	440.2
67.5°	406.3	401.5	406.3	406.3	411.1	406.3	406.3	406.3	391.8	382.1	362.8
70°	328.9	324.1	324.1	324.1	328.9	319.2	324.1	324.1	314.4	299.9	280.5
72.5°	251.5	251.5	251.5	251.5	251.5	251.5	246.7	246.7	237.0	222.5	212.8
75°	183.8	183.8	188.6	188.6	183.8	183.8	183.8	179.0	174.1	164.5	154.8
77.5°	135.4	135.4	135.4	135.4	130.6	130.6	130.6	125.8	120.9	116.1	106.4
80°	96.7	96.7	96.7	91.9	96.7	91.9	91.9	91.9	82.2	77.4	72.6
82.5°	67.7	62.9	62.9	62.9	62.9	62.9	62.9	58.0	58.0	53.2	48.4
85°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	33.9	29.0	29.0
87.5°	19.3	24.2	24.2	24.2	24.2	24.2	24.2	19.3	19.3	19.3	14.5
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°	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9
2.5°	3985.6	3985.6	3995.3	3980.8	4004.9	3990.4	3985.6	4009.8	3995.3	3990.4	4000.1
5°	3951.7	3956.6	3961.4	3951.7	3975.9	3961.4	3961.4	3985.6	3975.9	3971.1	3985.6
7.5°	3908.2	3913.0	3922.7	3917.9	3937.2	3927.5	3932.4	3956.6	3946.9	3946.9	3961.4
10°	3855.0	3864.7	3874.3	3874.3	3898.5	3888.9	3888.9	3917.9	3908.2	3913.0	3932.4
12.5°	3792.1	3806.6	3821.1	3826.0	3850.2	3835.6	3840.5	3874.3	3869.5	3874.3	3893.7
15°	3724.4	3743.7	3758.3	3758.3	3787.3	3772.8	3787.3	3821.1	3811.5	3830.8	3855.0
17.5°	3647.0	3666.4	3685.7	3690.5	3719.6	3709.9	3729.2	3763.1	3763.1	3772.8	3801.8
20°	3574.5	3598.6	3608.3	3622.8	3651.8	3647.0	3656.7	3695.4	3695.4	3709.9	3738.9
22.5°	3477.7	3501.9	3521.2	3535.8	3559.9	3559.9	3574.5	3608.3	3608.3	3618.0	3647.0
25°	3371.3	3400.3	3414.8	3429.3	3453.5	3448.7	3463.2	3492.2	3497.1	3506.7	3535.8
27.5°	3235.9	3260.1	3279.4	3289.1	3322.9	3303.6	3318.1	3352.0	3347.1	3356.8	3381.0
30°	3066.6	3090.8	3110.1	3110.1	3139.1	3139.1	3153.6	3168.2	3168.2	3177.8	3197.2
32.5°	2868.3	2897.3	2897.3	2911.8	2931.1	2911.8	2931.1	2950.5	2940.8	2955.3	2969.8
35°	2640.9	2655.4	2660.3	2660.3	2674.8	2670.0	2665.1	2679.6	2670.0	2694.1	2708.7
37.5°	2365.2	2384.6	2374.9	2384.6	2379.7	2365.2	2365.2	2389.4	2370.1	2374.9	2389.4
40°	2099.2	2099.2	2094.4	2070.2	2075.0	2060.5	2055.7	2060.5	2041.2	2036.3	2055.7
42.5°	1823.5	1818.7	1804.2	1770.3	1775.1	1751.0	1731.6	1731.6	1721.9	1717.1	1721.9
45°	1576.8	1562.3	1538.1	1499.4	1489.8	1470.4	1431.7	1422.0	1407.5	1407.5	1412.4
47.5°	1349.5	1330.1	1291.4	1247.9	1223.7	1199.5	1160.9	1146.3	1122.2	1112.5	1122.2
50°	1160.9	1127.0	1078.6	1015.7	991.6	962.5	923.8	899.7	875.5	865.8	861.0
52.5°	986.7	938.4	890.0	812.6	793.2	764.2	711.0	686.8	662.7	643.3	643.3
55°	836.8	793.2	725.5	653.0	624.0	594.9	541.7	507.9	483.7	474.0	464.3
57.5°	701.3	653.0	590.1	512.7	483.7	454.7	401.5	367.6	343.4	328.9	319.2
60°	590.1	536.9	474.0	406.3	372.4	343.4	290.2	256.4	232.2	217.7	208.0
62.5°	483.7	440.2	377.3	314.4	285.4	256.4	212.8	179.0	154.8	145.1	130.6
65°	406.3	362.8	304.7	251.5	227.3	198.3	159.6	130.6	111.2	96.7	87.1
67.5°	328.9	295.0	246.7	198.3	174.1	154.8	120.9	96.7	77.4	67.7	62.9
70°	261.2	227.3	188.6	149.9	135.4	116.1	91.9	67.7	58.0	48.4	43.5
72.5°	193.5	169.3	140.3	111.2	96.7	87.1	62.9	53.2	38.7	33.9	29.0
75°	140.3	120.9	101.6	77.4	67.7	62.9	48.4	33.9	29.0	24.2	19.3
77.5°	96.7	87.1	67.7	53.2	48.4	43.5	33.9	24.2	19.3	14.5	14.5
80°	62.9	53.2	43.5	33.9	33.9	29.0	19.3	14.5	14.5	9.7	9.7
82.5°	38.7	33.9	29.0	24.2	19.3	19.3	14.5	9.7	9.7	4.8	4.8
85°	24.2	19.3	14.5	14.5	9.7	9.7	9.7	4.8	4.8	4.8	4.8
87.5°	9.7	9.7	9.7	4.8	4.8	4.8	4.8	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°	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9
2.5°	4000.1	4000.1	4009.8	3995.3	4004.9	4004.9	4014.6	3995.3	4004.9	4009.8	4019.4
5°	3980.8	3985.6	3995.3	3990.4	3995.3	3995.3	4004.9	3980.8	4000.1	4000.1	4014.6
7.5°	3961.4	3961.4	3971.1	3966.2	3975.9	3980.8	3990.4	3971.1	3990.4	3990.4	4004.9
10°	3937.2	3937.2	3951.7	3946.9	3961.4	3966.2	3980.8	3961.4	3980.8	3985.6	4000.1
12.5°	3903.4	3908.2	3922.7	3922.7	3937.2	3946.9	3961.4	3951.7	3975.9	3980.8	4000.1
15°	3864.7	3874.3	3893.7	3888.9	3903.4	3917.9	3937.2	3922.7	3956.6	3966.2	3985.6
17.5°	3816.3	3826.0	3840.5	3840.5	3855.0	3864.7	3888.9	3879.2	3908.2	3913.0	3937.2
20°	3743.7	3758.3	3777.6	3772.8	3787.3	3797.0	3816.3	3806.6	3835.6	3845.3	3869.5
22.5°	3656.7	3666.4	3680.9	3680.9	3695.4	3705.1	3724.4	3709.9	3738.9	3743.7	3763.1
25°	3540.6	3550.3	3559.9	3564.8	3579.3	3584.1	3593.8	3584.1	3608.3	3613.2	3637.3
27.5°	3390.7	3395.5	3410.0	3410.0	3419.7	3424.5	3439.0	3419.7	3453.5	3453.5	3468.0
30°	3211.7	3206.9	3226.2	3216.5	3226.2	3226.2	3240.7	3231.0	3255.2	3245.5	3260.1
32.5°	2974.7	2984.4	2984.4	2974.7	2994.0	2989.2	2989.2	2979.5	2994.0	2998.9	3008.5
35°	2699.0	2713.5	2713.5	2718.3	2723.2	2708.7	2713.5	2684.5	2708.7	2713.5	2718.3
37.5°	2399.1	2384.6	2394.3	2379.7	2403.9	2374.9	2374.9	2355.6	2374.9	2374.9	2379.7
40°	2055.7	2050.8	2060.5	2050.8	2046.0	2041.2	2031.5	2017.0	2036.3	2026.7	2041.2
42.5°	1731.6	1726.8	1726.8	1717.1	1712.3	1712.3	1702.6	1692.9	1688.1	1688.1	1712.3
45°	1397.9	1407.5	1397.9	1393.0	1402.7	1393.0	1397.9	1378.5	1388.2	1378.5	1388.2
47.5°	1117.3	1122.2	1112.5	1102.8	1117.3	1102.8	1102.8	1088.3	1107.6	1107.6	1098.0
50°	865.8	861.0	851.3	861.0	856.1	856.1	856.1	841.6	851.3	836.8	846.5
52.5°	638.5	633.6	633.6	628.8	633.6	628.8	628.8	624.0	624.0	619.1	624.0
55°	464.3	459.5	449.8	449.8	449.8	454.7	449.8	445.0	445.0	440.2	445.0
57.5°	314.4	304.7	304.7	304.7	304.7	299.9	299.9	295.0	299.9	295.0	299.9
60°	203.1	203.1	193.5	193.5	193.5	193.5	193.5	188.6	193.5	193.5	193.5
62.5°	125.8	125.8	120.9	116.1	120.9	116.1	116.1	116.1	120.9	116.1	120.9
65°	82.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
67.5°	58.0	53.2	53.2	53.2	53.2	53.2	53.2	48.4	53.2	53.2	53.2
70°	38.7	38.7	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
72.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
75°	19.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
77.5°	14.5	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
80°	9.7	9.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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: P252325

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9
2.5°	4004.9	4009.8	4000.1	4004.9	3995.3	4004.9	4009.8	4019.4
5°	3995.3	4000.1	3990.4	4000.1	3990.4	4000.1	4004.9	4014.6
7.5°	3985.6	3995.3	3985.6	3995.3	3985.6	3995.3	4000.1	4009.8
10°	3985.6	4000.1	3990.4	4004.9	3990.4	4000.1	4009.8	4014.6
12.5°	3985.6	4000.1	3995.3	4004.9	4000.1	4009.8	4019.4	4029.1
15°	3975.9	3990.4	3980.8	3995.3	3990.4	3995.3	4014.6	4014.6
17.5°	3922.7	3937.2	3937.2	3946.9	3946.9	3961.4	3971.1	3980.8
20°	3855.0	3869.5	3864.7	3879.2	3879.2	3893.7	3903.4	3913.0
22.5°	3753.4	3772.8	3767.9	3782.4	3777.6	3787.3	3806.6	3801.8
25°	3622.8	3647.0	3642.2	3651.8	3647.0	3647.0	3656.7	3661.5
27.5°	3463.2	3477.7	3472.9	3482.6	3472.9	3482.6	3492.2	3497.1
30°	3255.2	3264.9	3260.1	3264.9	3260.1	3269.7	3274.6	3284.2
32.5°	3003.7	3018.2	3003.7	3013.4	3008.5	3008.5	3027.9	3018.2
35°	2703.8	2708.7	2713.5	2713.5	2703.8	2708.7	2718.3	2718.3
37.5°	2370.1	2394.3	2365.2	2379.7	2374.9	2374.9	2374.9	2389.4
40°	2021.8	2026.7	2017.0	2017.0	2017.0	2012.1	2031.5	2026.7
42.5°	1692.9	1697.7	1692.9	1678.4	1683.2	1683.2	1697.7	1678.4
45°	1373.7	1383.3	1378.5	1378.5	1368.8	1368.8	1373.7	1364.0
47.5°	1088.3	1098.0	1083.5	1088.3	1078.6	1088.3	1083.5	1093.1
50°	827.1	836.8	831.9	836.8	836.8	827.1	841.6	822.3
52.5°	619.1	624.0	619.1	614.3	609.4	609.4	619.1	614.3
55°	440.2	435.3	435.3	435.3	440.2	440.2	435.3	430.5
57.5°	295.0	295.0	290.2	290.2	295.0	285.4	290.2	285.4
60°	188.6	188.6	188.6	188.6	183.8	188.6	188.6	188.6
62.5°	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1
65°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
67.5°	48.4	53.2	53.2	53.2	48.4	48.4	48.4	48.4
70°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
72.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
75°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
77.5°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	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)