

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: P252327

Luminaire Tested: **LD6B70D010TE EU6B60708050 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252327  
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 EU6B60708050 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE 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: 6782.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

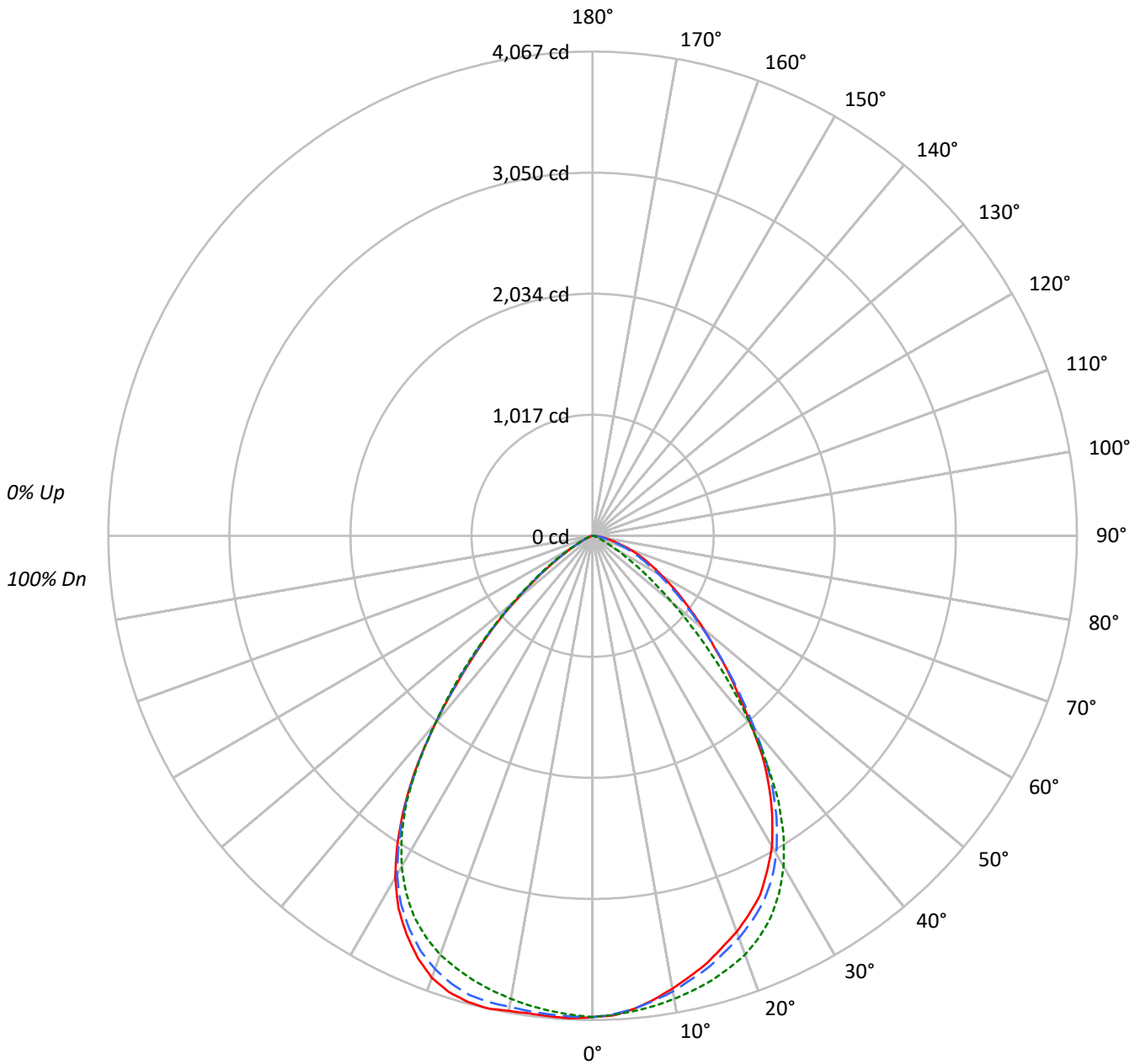
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	263735	263735	263735
5°	261226	262503	265384
10°	255833	261656	268453
15°	250946	261165	273701
20°	245746	259986	274218
25°	239689	254798	266050
30°	226927	241639	249730
35°	206087	216584	218527
40°	175884	175049	174223
45°	147752	131080	127029
50°	123389	88698	84242
55°	103848	54426	49422
60°	87905	28667	24844
65°	76121	15067	12056
70°	63329	9309	6524
75°	46759	6151	3680
80°	36669	3682	1841
85°	29268	3668	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.0	5.6
10°-20°	1090.9	16.1
20°-30°	1610.8	23.8
30°-40°	1660.1	24.5
40°-50°	1146.6	16.9
50°-60°	565.2	8.3
60°-70°	229.0	3.4
70°-80°	81.6	1.2
80°-90°	16.9	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°	3082.7	45.5
0°-40°	4742.7	69.9
0°-60°	6454.5	95.2
0°-90°	6782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4042	4042	4042	4042	4042	
5°	3989	3989	4008	4038	4052	377
15°	3715	3754	3867	3994	4052	1046
25°	3330	3393	3540	3642	3696	1522
35°	2588	2651	2719	2734	2744	1603
45°	1601	1611	1421	1401	1377	1238
55°	913	879	478	449	434	825
65°	493	444	98	78	78	490
75°	186	156	24	15	15	208
85°	39	29	5	0	0	48
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°	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5
2.5°	4032.7	4018.1	4027.8	4008.3	4032.7	4008.3	4013.2	4018.1	4013.2	4018.1	4023.0
5°	3988.8	3974.1	3988.8	3964.4	3988.8	3974.1	3974.1	3979.0	3979.0	3983.9	3988.8
7.5°	3930.2	3915.6	3930.2	3905.8	3935.1	3920.4	3920.4	3930.2	3925.3	3930.2	3940.0
10°	3861.8	3842.3	3857.0	3842.3	3871.6	3852.1	3861.8	3861.8	3861.8	3876.5	3886.3
12.5°	3788.6	3769.1	3788.6	3764.2	3793.5	3778.8	3783.7	3798.4	3803.3	3813.0	3817.9
15°	3715.4	3691.0	3700.7	3686.1	3715.4	3700.7	3705.6	3725.1	3725.1	3739.8	3754.4
17.5°	3622.6	3603.1	3622.6	3603.1	3627.5	3617.7	3627.5	3642.1	3642.1	3656.8	3671.4
20°	3539.6	3520.1	3534.7	3520.1	3549.4	3534.7	3539.6	3559.1	3564.0	3578.7	3593.3
22.5°	3437.1	3422.4	3432.2	3417.6	3446.9	3437.1	3442.0	3461.5	3466.4	3476.2	3500.6
25°	3329.7	3300.4	3315.0	3305.3	3334.6	3319.9	3329.7	3349.2	3359.0	3373.6	3393.2
27.5°	3173.5	3158.8	3168.6	3168.6	3193.0	3178.3	3183.2	3202.7	3217.4	3232.0	3256.4
30°	3012.3	2987.9	2997.7	3002.6	3022.1	3012.3	3022.1	3041.6	3046.5	3066.0	3085.6
32.5°	2807.3	2797.5	2817.0	2807.3	2817.0	2817.0	2821.9	2836.6	2846.3	2856.1	2880.5
35°	2587.6	2568.1	2587.6	2577.8	2602.2	2587.6	2602.2	2616.9	2616.9	2636.4	2651.1
37.5°	2348.4	2323.9	2333.7	2333.7	2343.5	2338.6	2338.6	2363.0	2367.9	2382.5	2397.2
40°	2065.2	2055.4	2074.9	2070.1	2074.9	2074.9	2079.8	2094.5	2104.2	2109.1	2114.0
42.5°	1811.3	1816.2	1821.1	1821.1	1821.1	1821.1	1821.1	1840.6	1835.7	1850.4	1855.2
45°	1601.4	1581.8	1591.6	1586.7	1601.4	1586.7	1601.4	1616.0	1606.3	1620.9	1611.1
47.5°	1386.6	1386.6	1386.6	1381.7	1391.4	1386.6	1396.3	1401.2	1401.2	1401.2	1396.3
50°	1215.7	1201.0	1205.9	1205.9	1210.8	1205.9	1215.7	1220.6	1220.6	1210.8	1191.3
52.5°	1049.7	1044.8	1044.8	1054.6	1054.6	1049.7	1049.7	1049.7	1049.7	1035.0	1025.3
55°	913.0	903.2	908.1	908.1	908.1	908.1	913.0	908.1	908.1	893.4	878.8
57.5°	790.9	781.2	781.2	781.2	786.0	781.2	781.2	781.2	776.3	761.6	742.1
60°	673.7	668.9	673.7	673.7	678.6	673.7	673.7	673.7	664.0	649.3	629.8
62.5°	576.1	576.1	576.1	581.0	581.0	576.1	576.1	571.2	566.3	546.8	527.3
65°	493.1	488.2	493.1	493.1	498.0	498.0	493.1	488.2	483.3	463.8	444.3
67.5°	410.1	405.2	410.1	410.1	415.0	410.1	410.1	410.1	395.5	385.7	366.2
70°	332.0	327.1	327.1	327.1	332.0	322.2	327.1	327.1	317.3	302.7	283.2
72.5°	253.9	253.9	253.9	253.9	253.9	253.9	249.0	249.0	239.2	224.6	214.8
75°	185.5	185.5	190.4	190.4	185.5	185.5	185.5	180.6	175.8	166.0	156.2
77.5°	136.7	136.7	136.7	136.7	131.8	131.8	131.8	126.9	122.1	117.2	107.4
80°	97.6	97.6	97.6	92.8	97.6	92.8	92.8	92.8	83.0	78.1	73.2
82.5°	68.4	63.5	63.5	63.5	63.5	63.5	63.5	58.6	58.6	53.7	48.8
85°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	34.2	29.3	29.3
87.5°	19.5	24.4	24.4	24.4	24.4	24.4	24.4	19.5	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°	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5
2.5°	4023.0	4023.0	4032.7	4018.1	4042.5	4027.8	4023.0	4047.4	4032.7	4027.8	4037.6
5°	3988.8	3993.7	3998.5	3988.8	4013.2	3998.5	3998.5	4023.0	4013.2	4008.3	4023.0
7.5°	3944.8	3949.7	3959.5	3954.6	3974.1	3964.4	3969.3	3993.7	3983.9	3983.9	3998.5
10°	3891.1	3900.9	3910.7	3910.7	3935.1	3925.3	3925.3	3954.6	3944.8	3949.7	3969.3
12.5°	3827.7	3842.3	3857.0	3861.8	3886.3	3871.6	3876.5	3910.7	3905.8	3910.7	3930.2
15°	3759.3	3778.8	3793.5	3793.5	3822.8	3808.1	3822.8	3857.0	3847.2	3866.7	3891.1
17.5°	3681.2	3700.7	3720.3	3725.1	3754.4	3744.7	3764.2	3798.4	3798.4	3808.1	3837.4
20°	3608.0	3632.4	3642.1	3656.8	3686.1	3681.2	3691.0	3730.0	3730.0	3744.7	3774.0
22.5°	3510.3	3534.7	3554.3	3568.9	3593.3	3593.3	3608.0	3642.1	3642.1	3651.9	3681.2
25°	3402.9	3432.2	3446.9	3461.5	3485.9	3481.0	3495.7	3525.0	3529.9	3539.6	3568.9
27.5°	3266.2	3290.6	3310.2	3319.9	3354.1	3334.6	3349.2	3383.4	3378.5	3388.3	3412.7
30°	3095.3	3119.7	3139.3	3139.3	3168.6	3168.6	3183.2	3197.9	3197.9	3207.6	3227.2
32.5°	2895.2	2924.5	2924.5	2939.1	2958.6	2939.1	2958.6	2978.2	2968.4	2983.0	2997.7
35°	2665.7	2680.3	2685.2	2685.2	2699.9	2695.0	2690.1	2704.8	2695.0	2719.4	2734.1
37.5°	2387.4	2406.9	2397.2	2406.9	2402.1	2387.4	2387.4	2411.8	2392.3	2397.2	2411.8
40°	2118.9	2118.9	2114.0	2089.6	2094.5	2079.8	2074.9	2079.8	2060.3	2055.4	2074.9
42.5°	1840.6	1835.7	1821.1	1786.9	1791.8	1767.4	1747.8	1747.8	1738.1	1733.2	1738.1
45°	1591.6	1577.0	1552.6	1513.5	1503.7	1484.2	1445.1	1435.4	1420.7	1420.7	1425.6
47.5°	1362.1	1342.6	1303.6	1259.6	1235.2	1210.8	1171.7	1157.1	1132.7	1122.9	1132.7
50°	1171.7	1137.6	1088.7	1025.3	1000.9	971.6	932.5	908.1	883.7	873.9	869.0
52.5°	996.0	947.2	898.3	820.2	800.7	771.4	717.7	693.3	668.9	649.3	649.3
55°	844.6	800.7	732.3	659.1	629.8	600.5	546.8	512.6	488.2	478.5	468.7
57.5°	707.9	659.1	595.6	517.5	488.2	458.9	405.2	371.0	346.6	332.0	322.2
60°	595.6	541.9	478.5	410.1	375.9	346.6	292.9	258.8	234.3	219.7	209.9
62.5°	488.2	444.3	380.8	317.3	288.1	258.8	214.8	180.6	156.2	146.5	131.8
65°	410.1	366.2	307.6	253.9	229.5	200.2	161.1	131.8	112.3	97.6	87.9
67.5°	332.0	297.8	249.0	200.2	175.8	156.2	122.1	97.6	78.1	68.4	63.5
70°	263.6	229.5	190.4	151.3	136.7	117.2	92.8	68.4	58.6	48.8	43.9
72.5°	195.3	170.9	141.6	112.3	97.6	87.9	63.5	53.7	39.1	34.2	29.3
75°	141.6	122.1	102.5	78.1	68.4	63.5	48.8	34.2	29.3	24.4	19.5
77.5°	97.6	87.9	68.4	53.7	48.8	43.9	34.2	24.4	19.5	14.6	14.6
80°	63.5	53.7	43.9	34.2	34.2	29.3	19.5	14.6	14.6	9.8	9.8
82.5°	39.1	34.2	29.3	24.4	19.5	19.5	14.6	9.8	9.8	4.9	4.9
85°	24.4	19.5	14.6	14.6	9.8	9.8	9.8	4.9	4.9	4.9	4.9
87.5°	9.8	9.8	9.8	4.9	4.9	4.9	4.9	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°	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5
2.5°	4037.6	4037.6	4047.4	4032.7	4042.5	4042.5	4052.3	4032.7	4042.5	4047.4	4057.1
5°	4018.1	4023.0	4032.7	4027.8	4032.7	4032.7	4042.5	4018.1	4037.6	4037.6	4052.3
7.5°	3998.5	3998.5	4008.3	4003.4	4013.2	4018.1	4027.8	4008.3	4027.8	4027.8	4042.5
10°	3974.1	3974.1	3988.8	3983.9	3998.5	4003.4	4018.1	3998.5	4018.1	4023.0	4037.6
12.5°	3940.0	3944.8	3959.5	3959.5	3974.1	3983.9	3998.5	3988.8	4013.2	4018.1	4037.6
15°	3900.9	3910.7	3930.2	3925.3	3940.0	3954.6	3974.1	3959.5	3993.7	4003.4	4023.0
17.5°	3852.1	3861.8	3876.5	3876.5	3891.1	3900.9	3925.3	3915.6	3944.8	3949.7	3974.1
20°	3778.8	3793.5	3813.0	3808.1	3822.8	3832.6	3852.1	3842.3	3871.6	3881.4	3905.8
22.5°	3691.0	3700.7	3715.4	3715.4	3730.0	3739.8	3759.3	3744.7	3774.0	3778.8	3798.4
25°	3573.8	3583.6	3593.3	3598.2	3612.9	3617.7	3627.5	3617.7	3642.1	3647.0	3671.4
27.5°	3422.4	3427.3	3442.0	3442.0	3451.7	3456.6	3471.3	3451.7	3485.9	3485.9	3500.6
30°	3241.8	3236.9	3256.4	3246.7	3256.4	3256.4	3271.1	3261.3	3285.7	3276.0	3290.6
32.5°	3002.6	3012.3	3012.3	3002.6	3022.1	3017.2	3017.2	3007.5	3022.1	3027.0	3036.7
35°	2724.3	2738.9	2738.9	2743.8	2748.7	2734.1	2738.9	2709.6	2734.1	2738.9	2743.8
37.5°	2421.6	2406.9	2416.7	2402.1	2426.5	2397.2	2397.2	2377.6	2397.2	2397.2	2402.1
40°	2074.9	2070.1	2079.8	2070.1	2065.2	2060.3	2050.5	2035.9	2055.4	2045.7	2060.3
42.5°	1747.8	1743.0	1743.0	1733.2	1728.3	1728.3	1718.5	1708.8	1703.9	1703.9	1728.3
45°	1411.0	1420.7	1411.0	1406.1	1415.8	1406.1	1411.0	1391.4	1401.2	1391.4	1401.2
47.5°	1127.8	1132.7	1122.9	1113.1	1127.8	1113.1	1113.1	1098.5	1118.0	1118.0	1108.3
50°	873.9	869.0	859.3	869.0	864.2	864.2	864.2	849.5	859.3	844.6	854.4
52.5°	644.5	639.6	639.6	634.7	639.6	634.7	634.7	629.8	629.8	624.9	629.8
55°	468.7	463.8	454.0	454.0	454.0	458.9	454.0	449.2	449.2	444.3	449.2
57.5°	317.3	307.6	307.6	307.6	307.6	302.7	302.7	297.8	302.7	297.8	302.7
60°	205.1	205.1	195.3	195.3	195.3	195.3	195.3	190.4	195.3	195.3	195.3
62.5°	126.9	126.9	122.1	117.2	122.1	117.2	117.2	117.2	122.1	117.2	122.1
65°	83.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
67.5°	58.6	53.7	53.7	53.7	53.7	53.7	53.7	48.8	53.7	53.7	53.7
70°	39.1	39.1	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
72.5°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
75°	19.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
77.5°	14.6	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
80°	9.8	9.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	4.9	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	4.9	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: P252327

CATALOG NUMBER: LD6B70D010TE EU6B60708050 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5	4042.5
2.5°	4042.5	4047.4	4037.6	4042.5	4032.7	4042.5	4047.4	4057.1
5°	4032.7	4037.6	4027.8	4037.6	4027.8	4037.6	4042.5	4052.3
7.5°	4023.0	4032.7	4023.0	4032.7	4023.0	4032.7	4037.6	4047.4
10°	4023.0	4037.6	4027.8	4042.5	4027.8	4037.6	4047.4	4052.3
12.5°	4023.0	4037.6	4032.7	4042.5	4037.6	4047.4	4057.1	4066.9
15°	4013.2	4027.8	4018.1	4032.7	4027.8	4032.7	4052.3	4052.3
17.5°	3959.5	3974.1	3974.1	3983.9	3983.9	3998.5	4008.3	4018.1
20°	3891.1	3905.8	3900.9	3915.6	3915.6	3930.2	3940.0	3949.7
22.5°	3788.6	3808.1	3803.3	3817.9	3813.0	3822.8	3842.3	3837.4
25°	3656.8	3681.2	3676.3	3686.1	3681.2	3681.2	3691.0	3695.9
27.5°	3495.7	3510.3	3505.4	3515.2	3505.4	3515.2	3525.0	3529.9
30°	3285.7	3295.5	3290.6	3295.5	3290.6	3300.4	3305.3	3315.0
32.5°	3031.9	3046.5	3031.9	3041.6	3036.7	3036.7	3056.3	3046.5
35°	2729.2	2734.1	2738.9	2738.9	2729.2	2734.1	2743.8	2743.8
37.5°	2392.3	2416.7	2387.4	2402.1	2397.2	2397.2	2397.2	2411.8
40°	2040.8	2045.7	2035.9	2035.9	2035.9	2031.0	2050.5	2045.7
42.5°	1708.8	1713.7	1708.8	1694.1	1699.0	1699.0	1713.7	1694.1
45°	1386.6	1396.3	1391.4	1391.4	1381.7	1381.7	1386.6	1376.8
47.5°	1098.5	1108.3	1093.6	1098.5	1088.7	1098.5	1093.6	1103.4
50°	834.9	844.6	839.7	844.6	844.6	834.9	849.5	830.0
52.5°	624.9	629.8	624.9	620.0	615.2	615.2	624.9	620.0
55°	444.3	439.4	439.4	439.4	444.3	444.3	439.4	434.5
57.5°	297.8	297.8	292.9	292.9	297.8	288.1	292.9	288.1
60°	190.4	190.4	190.4	190.4	185.5	190.4	190.4	190.4
62.5°	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2
65°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
67.5°	48.8	53.7	53.7	53.7	48.8	48.8	48.8	48.8
70°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
72.5°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
75°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
77.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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)