

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: P252326

Luminaire Tested: **LD6B70D010TE EU6B60708040 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252326
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 EU6B60708040 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 6786.0 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

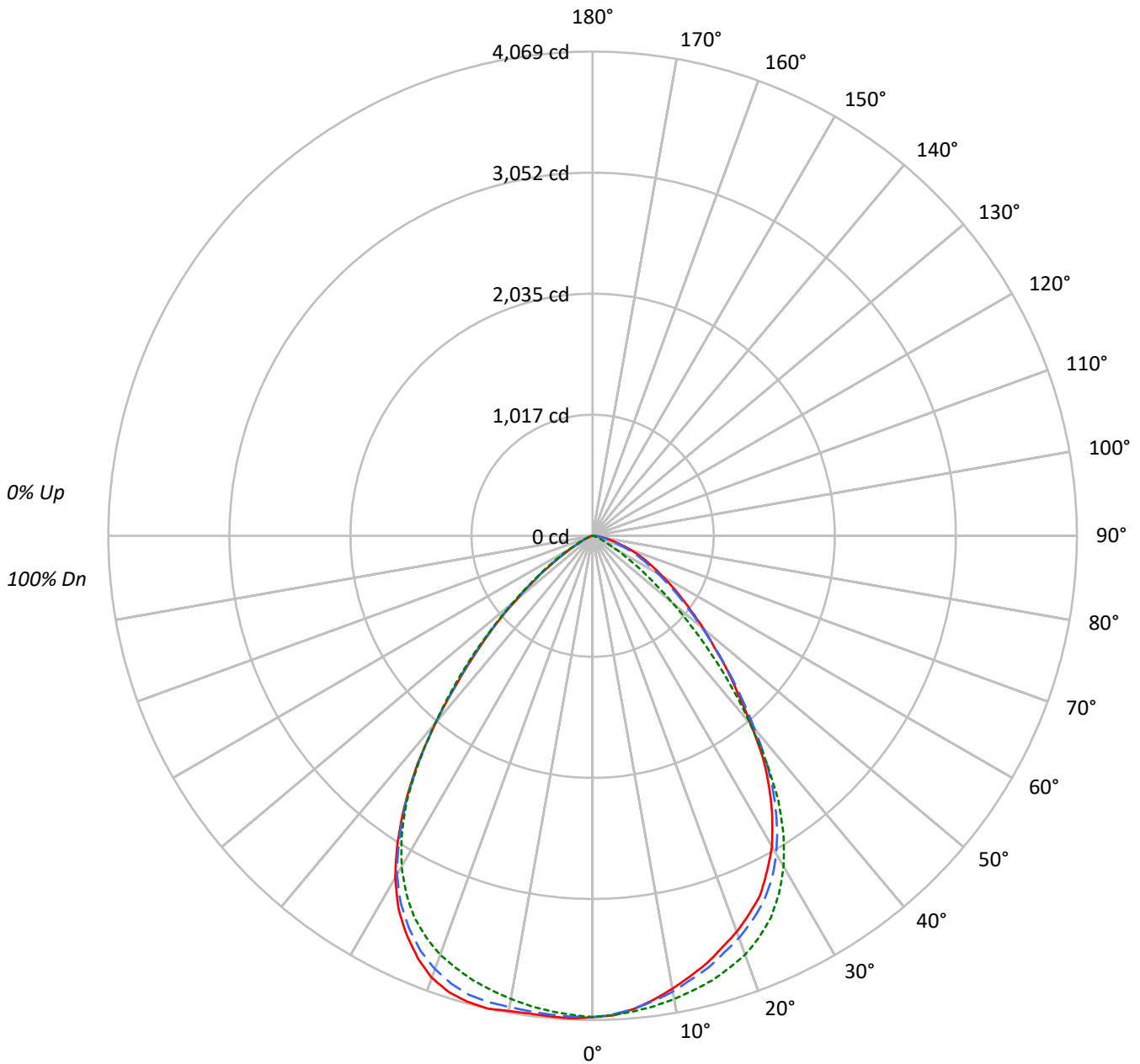
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	263892	263892	263892
5°	261376	262660	265535
10°	255985	261815	268605
15°	251094	261320	273856
20°	245892	260138	274385
25°	239825	254950	266201
30°	227062	241783	249881
35°	206207	216712	218655
40°	175986	175152	174325
45°	147835	131163	127103
50°	123460	88748	84293
55°	103905	54449	49456
60°	87957	28680	24857
65°	76167	15082	12072
70°	63367	9328	6524
75°	46784	6151	3705
80°	36706	3682	1841
85°	29268	3668	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.2	5.6
10°-20°	1091.5	16.1
20°-30°	1611.8	23.8
30°-40°	1661.1	24.5
40°-50°	1147.3	16.9
50°-60°	565.5	8.3
60°-70°	229.1	3.4
70°-80°	81.7	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°	3084.5	45.5
0°-40°	4745.5	69.9
0°-60°	6458.3	95.2
0°-90°	6786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6786.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4045	4045	4045	4045	4045	
5°	3991	3991	4011	4040	4055	377
15°	3718	3757	3869	3996	4055	1047
25°	3332	3395	3542	3644	3698	1523
35°	2589	2653	2721	2736	2745	1604
45°	1602	1612	1422	1402	1378	1239
55°	914	879	479	449	435	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°	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9
2.5°	4035.1	4020.4	4030.2	4010.7	4035.1	4010.7	4015.6	4020.4	4015.6	4020.4	4025.3
5°	3991.1	3976.5	3991.1	3966.7	3991.1	3976.5	3976.5	3981.4	3981.4	3986.3	3991.1
7.5°	3932.5	3917.9	3932.5	3908.1	3937.4	3922.7	3922.7	3932.5	3927.6	3932.5	3942.3
10°	3864.1	3844.6	3859.2	3844.6	3873.9	3854.4	3864.1	3864.1	3864.1	3878.8	3888.5
12.5°	3790.8	3771.3	3790.8	3766.4	3795.7	3781.1	3786.0	3800.6	3805.5	3815.3	3820.2
15°	3717.6	3693.1	3702.9	3688.3	3717.6	3702.9	3707.8	3727.3	3727.3	3742.0	3756.7
17.5°	3624.8	3605.2	3624.8	3605.2	3629.6	3619.9	3629.6	3644.3	3644.3	3658.9	3673.6
20°	3541.7	3522.2	3536.8	3522.2	3551.5	3536.8	3541.7	3561.2	3566.1	3580.8	3595.4
22.5°	3439.1	3424.5	3434.2	3419.6	3448.9	3439.1	3444.0	3463.5	3468.4	3478.2	3502.6
25°	3331.6	3302.3	3317.0	3307.2	3336.5	3321.9	3331.6	3351.2	3361.0	3375.6	3395.2
27.5°	3175.3	3160.7	3170.4	3170.4	3194.9	3180.2	3185.1	3204.6	3219.3	3233.9	3258.4
30°	3014.1	2989.7	2999.5	3004.3	3023.9	3014.1	3023.9	3043.4	3048.3	3067.9	3087.4
32.5°	2808.9	2799.2	2818.7	2808.9	2818.7	2818.7	2823.6	2838.3	2848.0	2857.8	2882.2
35°	2589.1	2569.6	2589.1	2579.3	2603.8	2589.1	2603.8	2618.4	2618.4	2638.0	2652.6
37.5°	2349.7	2325.3	2335.1	2335.1	2344.9	2340.0	2340.0	2364.4	2369.3	2383.9	2398.6
40°	2066.4	2056.6	2076.2	2071.3	2076.2	2076.2	2081.1	2095.7	2105.5	2110.4	2115.3
42.5°	1812.4	1817.3	1822.1	1822.1	1822.1	1822.1	1822.1	1841.7	1836.8	1851.5	1856.3
45°	1602.3	1582.8	1592.5	1587.7	1602.3	1587.7	1602.3	1617.0	1607.2	1621.9	1612.1
47.5°	1387.4	1387.4	1387.4	1382.5	1392.3	1387.4	1397.1	1402.0	1402.0	1402.0	1397.1
50°	1216.4	1201.7	1206.6	1206.6	1211.5	1206.6	1216.4	1221.3	1221.3	1211.5	1192.0
52.5°	1050.3	1045.4	1045.4	1055.2	1055.2	1050.3	1050.3	1050.3	1050.3	1035.6	1025.9
55°	913.5	903.7	908.6	908.6	908.6	908.6	913.5	908.6	908.6	894.0	879.3
57.5°	791.4	781.6	781.6	781.6	786.5	781.6	781.6	781.6	776.7	762.1	742.5
60°	674.1	669.3	674.1	674.1	679.0	674.1	674.1	674.1	664.4	649.7	630.2
62.5°	576.4	576.4	576.4	581.3	581.3	576.4	576.4	571.6	566.7	547.1	527.6
65°	493.4	488.5	493.4	493.4	498.3	498.3	493.4	488.5	483.6	464.1	444.5
67.5°	410.3	405.5	410.3	410.3	415.2	410.3	410.3	410.3	395.7	385.9	366.4
70°	332.2	327.3	327.3	327.3	332.2	322.4	327.3	327.3	317.5	302.9	283.3
72.5°	254.0	254.0	254.0	254.0	254.0	254.0	249.1	249.1	239.4	224.7	214.9
75°	185.6	185.6	190.5	190.5	185.6	185.6	185.6	180.7	175.9	166.1	156.3
77.5°	136.8	136.8	136.8	136.8	131.9	131.9	131.9	127.0	122.1	117.2	107.5
80°	97.7	97.7	97.7	92.8	97.7	92.8	92.8	92.8	83.0	78.2	73.3
82.5°	68.4	63.5	63.5	63.5	63.5	63.5	63.5	58.6	58.6	53.7	48.9
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	14.7
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°	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9
2.5°	4025.3	4025.3	4035.1	4020.4	4044.9	4030.2	4025.3	4049.8	4035.1	4030.2	4040.0
5°	3991.1	3996.0	4000.9	3991.1	4015.6	4000.9	4000.9	4025.3	4015.6	4010.7	4025.3
7.5°	3947.2	3952.1	3961.8	3956.9	3976.5	3966.7	3971.6	3996.0	3986.3	3986.3	4000.9
10°	3893.4	3903.2	3913.0	3913.0	3937.4	3927.6	3927.6	3956.9	3947.2	3952.1	3971.6
12.5°	3829.9	3844.6	3859.2	3864.1	3888.5	3873.9	3878.8	3913.0	3908.1	3913.0	3932.5
15°	3761.5	3781.1	3795.7	3795.7	3825.0	3810.4	3825.0	3859.2	3849.5	3869.0	3893.4
17.5°	3683.4	3702.9	3722.5	3727.3	3756.7	3746.9	3766.4	3800.6	3800.6	3810.4	3839.7
20°	3610.1	3634.5	3644.3	3658.9	3688.3	3683.4	3693.1	3732.2	3732.2	3746.9	3776.2
22.5°	3512.4	3536.8	3556.4	3571.0	3595.4	3595.4	3610.1	3644.3	3644.3	3654.1	3683.4
25°	3404.9	3434.2	3448.9	3463.5	3488.0	3483.1	3497.7	3527.1	3531.9	3541.7	3571.0
27.5°	3268.1	3292.6	3312.1	3321.9	3356.1	3336.5	3351.2	3385.4	3380.5	3390.3	3414.7
30°	3097.2	3121.6	3141.1	3141.1	3170.4	3170.4	3185.1	3199.7	3199.7	3209.5	3229.1
32.5°	2896.9	2926.2	2926.2	2940.8	2960.4	2940.8	2960.4	2979.9	2970.1	2984.8	2999.5
35°	2667.3	2681.9	2686.8	2686.8	2701.5	2696.6	2691.7	2706.4	2696.6	2721.0	2735.7
37.5°	2388.8	2408.4	2398.6	2408.4	2403.5	2388.8	2388.8	2413.2	2393.7	2398.6	2413.2
40°	2120.1	2120.1	2115.3	2090.8	2095.7	2081.1	2076.2	2081.1	2061.5	2056.6	2076.2
42.5°	1841.7	1836.8	1822.1	1788.0	1792.8	1768.4	1748.9	1748.9	1739.1	1734.2	1739.1
45°	1592.5	1577.9	1553.5	1514.4	1504.6	1485.1	1446.0	1436.2	1421.6	1421.6	1426.5
47.5°	1362.9	1343.4	1304.3	1260.4	1235.9	1211.5	1172.4	1157.8	1133.3	1123.6	1133.3
50°	1172.4	1138.2	1089.4	1025.9	1001.4	972.1	933.1	908.6	884.2	874.4	869.6
52.5°	996.6	947.7	898.9	820.7	801.2	771.8	718.1	693.7	669.3	649.7	649.7
55°	845.1	801.2	732.8	659.5	630.2	600.9	547.1	512.9	488.5	478.7	469.0
57.5°	708.3	659.5	596.0	517.8	488.5	459.2	405.5	371.3	346.8	332.2	322.4
60°	596.0	542.2	478.7	410.3	376.2	346.8	293.1	258.9	234.5	219.8	210.1
62.5°	488.5	444.5	381.0	317.5	288.2	258.9	214.9	180.7	156.3	146.6	131.9
65°	410.3	366.4	307.8	254.0	229.6	200.3	161.2	131.9	112.4	97.7	87.9
67.5°	332.2	298.0	249.1	200.3	175.9	156.3	122.1	97.7	78.2	68.4	63.5
70°	263.8	229.6	190.5	151.4	136.8	117.2	92.8	68.4	58.6	48.9	44.0
72.5°	195.4	171.0	141.7	112.4	97.7	87.9	63.5	53.7	39.1	34.2	29.3
75°	141.7	122.1	102.6	78.2	68.4	63.5	48.9	34.2	29.3	24.4	19.5
77.5°	97.7	87.9	68.4	53.7	48.9	44.0	34.2	24.4	19.5	14.7	14.7
80°	63.5	53.7	44.0	34.2	34.2	29.3	19.5	14.7	14.7	9.8	9.8
82.5°	39.1	34.2	29.3	24.4	19.5	19.5	14.7	9.8	9.8	4.9	4.9
85°	24.4	19.5	14.7	14.7	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°	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9
2.5°	4040.0	4040.0	4049.8	4035.1	4044.9	4044.9	4054.6	4035.1	4044.9	4049.8	4059.5
5°	4020.4	4025.3	4035.1	4030.2	4035.1	4035.1	4044.9	4020.4	4040.0	4040.0	4054.6
7.5°	4000.9	4000.9	4010.7	4005.8	4015.6	4020.4	4030.2	4010.7	4030.2	4030.2	4044.9
10°	3976.5	3976.5	3991.1	3986.3	4000.9	4005.8	4020.4	4000.9	4020.4	4025.3	4040.0
12.5°	3942.3	3947.2	3961.8	3961.8	3976.5	3986.3	4000.9	3991.1	4015.6	4020.4	4040.0
15°	3903.2	3913.0	3932.5	3927.6	3942.3	3956.9	3976.5	3961.8	3996.0	4005.8	4025.3
17.5°	3854.4	3864.1	3878.8	3878.8	3893.4	3903.2	3927.6	3917.9	3947.2	3952.1	3976.5
20°	3781.1	3795.7	3815.3	3810.4	3825.0	3834.8	3854.4	3844.6	3873.9	3883.7	3908.1
22.5°	3693.1	3702.9	3717.6	3717.6	3732.2	3742.0	3761.5	3746.9	3776.2	3781.1	3800.6
25°	3575.9	3585.7	3595.4	3600.3	3615.0	3619.9	3629.6	3619.9	3644.3	3649.2	3673.6
27.5°	3424.5	3429.3	3444.0	3444.0	3453.8	3458.7	3473.3	3453.8	3488.0	3488.0	3502.6
30°	3243.7	3238.8	3258.4	3248.6	3258.4	3258.4	3273.0	3263.3	3287.7	3277.9	3292.6
32.5°	3004.3	3014.1	3014.1	3004.3	3023.9	3019.0	3019.0	3009.2	3023.9	3028.8	3038.5
35°	2725.9	2740.5	2740.5	2745.4	2750.3	2735.7	2740.5	2711.2	2735.7	2740.5	2745.4
37.5°	2423.0	2408.4	2418.1	2403.5	2427.9	2398.6	2398.6	2379.1	2398.6	2398.6	2403.5
40°	2076.2	2071.3	2081.1	2071.3	2066.4	2061.5	2051.7	2037.1	2056.6	2046.9	2061.5
42.5°	1748.9	1744.0	1744.0	1734.2	1729.3	1729.3	1719.6	1709.8	1704.9	1704.9	1729.3
45°	1411.8	1421.6	1411.8	1406.9	1416.7	1406.9	1411.8	1392.3	1402.0	1392.3	1402.0
47.5°	1128.5	1133.3	1123.6	1113.8	1128.5	1113.8	1113.8	1099.2	1118.7	1118.7	1108.9
50°	874.4	869.6	859.8	869.6	864.7	864.7	864.7	850.0	859.8	845.1	854.9
52.5°	644.8	639.9	639.9	635.1	639.9	635.1	635.1	630.2	630.2	625.3	630.2
55°	469.0	464.1	454.3	454.3	454.3	459.2	454.3	449.4	449.4	444.5	449.4
57.5°	317.5	307.8	307.8	307.8	307.8	302.9	302.9	298.0	302.9	298.0	302.9
60°	205.2	205.2	195.4	195.4	195.4	195.4	195.4	190.5	195.4	195.4	195.4
62.5°	127.0	127.0	122.1	117.2	122.1	117.2	117.2	117.2	122.1	117.2	122.1
65°	83.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
67.5°	58.6	53.7	53.7	53.7	53.7	53.7	53.7	48.9	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	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
77.5°	14.7	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: P252326

CATALOG NUMBER: LD6B70D010TE EU6B60708040 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9
2.5°	4044.9	4049.8	4040.0	4044.9	4035.1	4044.9	4049.8	4059.5
5°	4035.1	4040.0	4030.2	4040.0	4030.2	4040.0	4044.9	4054.6
7.5°	4025.3	4035.1	4025.3	4035.1	4025.3	4035.1	4040.0	4049.8
10°	4025.3	4040.0	4030.2	4044.9	4030.2	4040.0	4049.8	4054.6
12.5°	4025.3	4040.0	4035.1	4044.9	4040.0	4049.8	4059.5	4069.3
15°	4015.6	4030.2	4020.4	4035.1	4030.2	4035.1	4054.6	4054.6
17.5°	3961.8	3976.5	3976.5	3986.3	3986.3	4000.9	4010.7	4020.4
20°	3893.4	3908.1	3903.2	3917.9	3917.9	3932.5	3942.3	3952.1
22.5°	3790.8	3810.4	3805.5	3820.2	3815.3	3825.0	3844.6	3839.7
25°	3658.9	3683.4	3678.5	3688.3	3683.4	3683.4	3693.1	3698.0
27.5°	3497.7	3512.4	3507.5	3517.3	3507.5	3517.3	3527.1	3531.9
30°	3287.7	3297.5	3292.6	3297.5	3292.6	3302.3	3307.2	3317.0
32.5°	3033.7	3048.3	3033.7	3043.4	3038.5	3038.5	3058.1	3048.3
35°	2730.8	2735.7	2740.5	2740.5	2730.8	2735.7	2745.4	2745.4
37.5°	2393.7	2418.1	2388.8	2403.5	2398.6	2398.6	2398.6	2413.2
40°	2042.0	2046.9	2037.1	2037.1	2037.1	2032.2	2051.7	2046.9
42.5°	1709.8	1714.7	1709.8	1695.1	1700.0	1700.0	1714.7	1695.1
45°	1387.4	1397.1	1392.3	1392.3	1382.5	1382.5	1387.4	1377.6
47.5°	1099.2	1108.9	1094.3	1099.2	1089.4	1099.2	1094.3	1104.0
50°	835.4	845.1	840.2	845.1	845.1	835.4	850.0	830.5
52.5°	625.3	630.2	625.3	620.4	615.5	615.5	625.3	620.4
55°	444.5	439.7	439.7	439.7	444.5	444.5	439.7	434.8
57.5°	298.0	298.0	293.1	293.1	298.0	288.2	293.1	288.2
60°	190.5	190.5	190.5	190.5	185.6	190.5	190.5	190.5
62.5°	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2
65°	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
67.5°	48.9	53.7	53.7	53.7	48.9	48.9	48.9	48.9
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°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
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)