

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: P252207

Luminaire Tested: **LD6B60D010TE EU6B60708030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7602.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

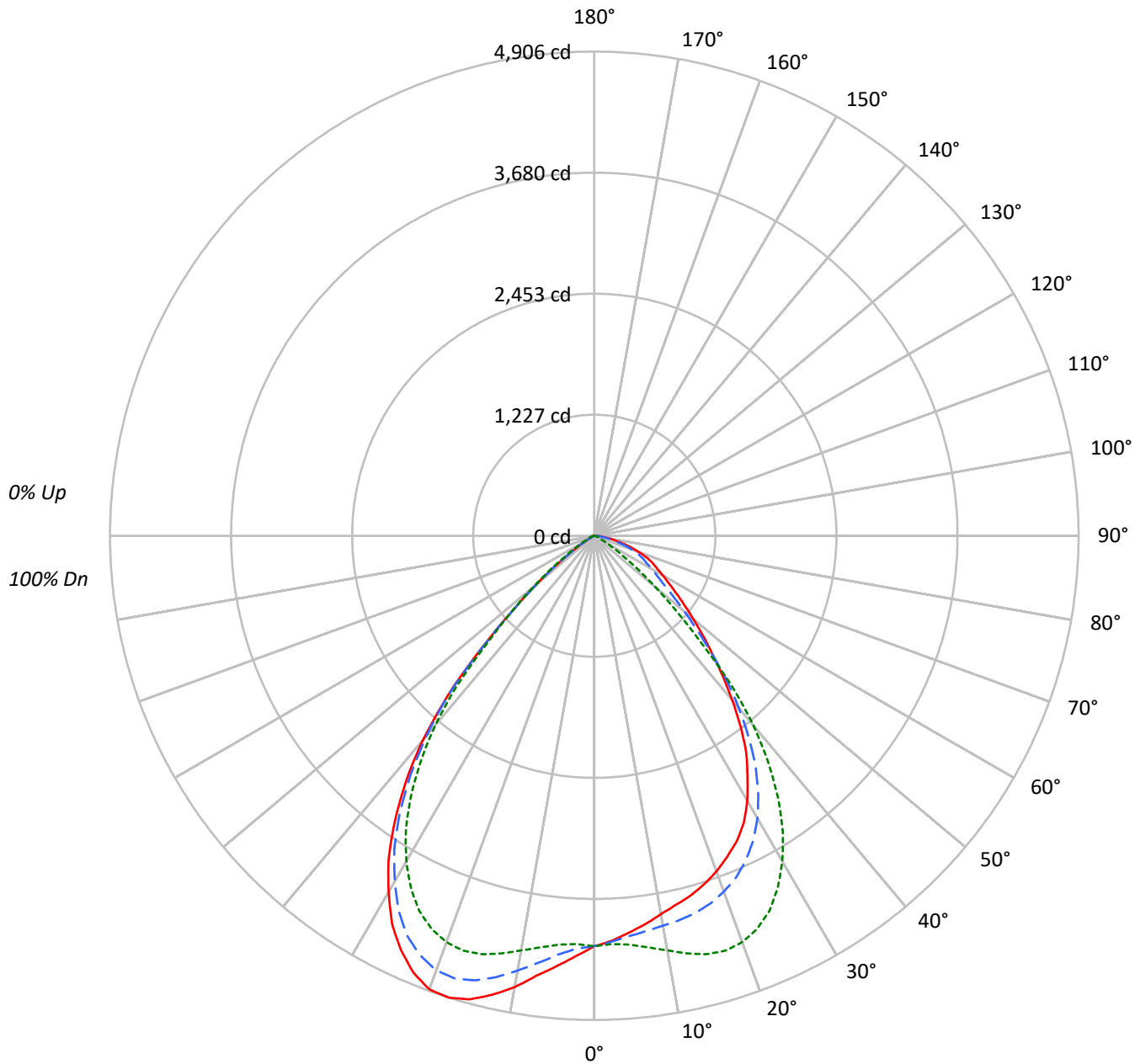
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	103	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	89	83	78	95	88	82	78	85	80	76		83	78	75		80
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68
6	80	69	61	56	78	68	61	56	66	60	55		64	59	55		63
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	271329	271329	271329
5°	264291	272366	286688
10°	257867	282623	307651
15°	254850	296476	328430
20°	251203	304197	339536
25°	245858	301956	333435
30°	233631	286945	313899
35°	213749	258716	280252
40°	184886	213672	229922
45°	155908	140131	150409
50°	132361	81116	76275
55°	114870	38889	29391
60°	103759	18163	7268
65°	100666	10436	2455
70°	90244	8336	2270
75°	74159	6024	1008
80°	55266	3006	0
85°	47608	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.7	5.3
10°-20°	1224.3	16.1
20°-30°	1870.6	24.6
30°-40°	1956.4	25.7
40°-50°	1269.2	16.7
50°-60°	503.9	6.6
60°-70°	239.0	3.1
70°-80°	113.7	1.5
80°-90°	23.2	0.3
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°	3496.5	46.0
0°-40°	5453.0	71.7
0°-60°	7226.1	95.1
0°-90°	7602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7602.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4159	4159	4159	4159	4159	
5°	4036	4071	4159	4262	4378	381
15°	3773	3956	4390	4664	4863	1063
25°	3415	3630	4195	4477	4632	1564
35°	2684	2847	3248	3439	3519	1660
45°	1690	1674	1519	1610	1630	1315
55°	1010	859	342	266	258	915
65°	652	541	68	16	16	637
75°	294	239	24	8	4	317
85°	64	40	0	0	0	74
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°	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9
2.5°	4107.2	4115.2	4071.4	4059.5	4091.3	4103.2	4107.2	4095.3	4099.3	4115.2	4115.2
5°	4035.6	4043.6	4003.8	3991.9	4023.7	4031.7	4043.6	4039.6	4051.5	4075.4	4071.4
7.5°	3968.0	3980.0	3936.2	3920.3	3960.1	3980.0	3987.9	3987.9	4003.8	4035.6	4039.6
10°	3892.5	3908.4	3868.6	3860.7	3904.4	3924.3	3928.3	3936.2	3960.1	4003.8	4011.8
12.5°	3828.9	3844.8	3817.0	3805.0	3852.7	3872.6	3880.6	3896.5	3924.3	3980.0	3987.9
15°	3773.2	3785.2	3753.3	3745.4	3793.1	3817.0	3820.9	3844.8	3880.6	3944.2	3956.1
17.5°	3701.7	3709.6	3685.8	3677.8	3725.5	3749.4	3753.3	3781.2	3824.9	3888.5	3908.4
20°	3618.2	3626.1	3602.3	3594.3	3642.0	3669.8	3673.8	3697.7	3749.4	3817.0	3836.8
22.5°	3518.8	3534.7	3506.8	3498.9	3546.6	3570.4	3582.4	3602.3	3653.9	3721.5	3749.4
25°	3415.4	3415.4	3395.5	3391.5	3435.3	3463.1	3459.1	3487.0	3538.6	3606.2	3630.1
27.5°	3280.2	3276.2	3256.3	3252.4	3300.1	3323.9	3316.0	3343.8	3391.5	3459.1	3483.0
30°	3101.3	3109.2	3081.4	3073.4	3113.2	3153.0	3149.0	3176.8	3224.5	3288.2	3304.1
32.5°	2886.6	2894.5	2890.6	2878.6	2914.4	2934.3	2946.2	2966.1	3005.9	3073.4	3089.4
35°	2683.8	2671.9	2656.0	2656.0	2691.8	2723.6	2711.6	2735.5	2775.2	2842.8	2846.8
37.5°	2433.3	2429.3	2421.4	2413.4	2453.2	2461.1	2465.1	2481.0	2516.8	2572.5	2564.5
40°	2170.9	2174.9	2170.9	2155.0	2178.8	2210.7	2206.7	2214.6	2246.4	2286.2	2274.3
42.5°	1924.4	1924.4	1924.4	1908.5	1936.3	1952.2	1960.2	1956.2	1964.1	1999.9	1984.0
45°	1689.8	1693.8	1689.8	1685.8	1689.8	1697.8	1689.8	1685.8	1685.8	1697.8	1673.9
47.5°	1487.0	1487.0	1475.1	1463.2	1475.1	1479.1	1467.1	1455.2	1451.2	1447.3	1407.5
50°	1304.1	1300.2	1296.2	1276.3	1288.2	1292.2	1276.3	1268.3	1252.4	1232.6	1184.8
52.5°	1145.1	1141.1	1137.1	1117.3	1125.2	1129.2	1113.3	1097.4	1077.5	1061.6	1002.0
55°	1009.9	1005.9	1005.9	994.0	986.0	994.0	978.1	966.2	938.3	918.5	858.8
57.5°	894.6	894.6	886.6	874.7	878.7	878.7	862.8	846.9	823.0	799.2	751.5
60°	795.2	795.2	795.2	783.3	783.3	783.3	775.3	759.4	739.5	715.7	668.0
62.5°	715.7	715.7	711.7	699.8	703.8	703.8	695.8	679.9	660.0	644.1	596.4
65°	652.1	652.1	652.1	640.1	640.1	644.1	636.2	620.3	604.4	584.5	540.7
67.5°	572.5	568.6	568.6	560.6	564.6	568.6	560.6	548.7	528.8	516.9	477.1
70°	473.1	477.1	481.1	469.2	473.1	473.1	469.2	457.2	445.3	433.4	397.6
72.5°	385.7	385.7	381.7	377.7	377.7	381.7	373.7	361.8	353.9	345.9	318.1
75°	294.2	290.2	294.2	286.3	286.3	286.3	278.3	274.3	270.4	258.4	238.6
77.5°	214.7	210.7	210.7	202.8	206.8	206.8	202.8	194.8	186.9	182.9	167.0
80°	147.1	147.1	147.1	143.1	143.1	139.2	139.2	135.2	127.2	123.3	115.3
82.5°	99.4	99.4	99.4	95.4	95.4	95.4	91.4	87.5	83.5	79.5	71.6
85°	63.6	63.6	63.6	59.6	59.6	59.6	55.7	55.7	51.7	47.7	39.8
87.5°	35.8	35.8	35.8	31.8	31.8	31.8	31.8	31.8	27.8	23.9	19.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9
2.5°	4143.0	4087.3	4123.1	4123.1	4111.2	4143.0	4162.9	4178.8	4174.8	4139.0	4135.0
5°	4111.2	4063.5	4103.2	4107.2	4095.3	4139.0	4166.8	4186.7	4190.7	4158.9	4162.9
7.5°	4087.3	4047.6	4099.3	4115.2	4111.2	4150.9	4182.7	4214.6	4230.5	4206.6	4210.6
10°	4075.4	4043.6	4099.3	4123.1	4127.1	4170.8	4218.5	4262.3	4282.1	4266.2	4278.2
12.5°	4059.5	4039.6	4103.2	4139.0	4154.9	4198.7	4258.3	4310.0	4341.8	4333.8	4357.7
15°	4043.6	4027.7	4103.2	4154.9	4174.8	4214.6	4282.1	4357.7	4393.5	4389.5	4421.3
17.5°	4003.8	3999.9	4079.4	4135.0	4162.9	4210.6	4274.2	4365.6	4401.4	4409.4	4449.1
20°	3940.2	3940.2	4027.7	4087.3	4119.1	4162.9	4242.4	4329.9	4373.6	4381.5	4425.3
22.5°	3852.7	3860.7	3944.2	4003.8	4051.5	4083.3	4166.8	4258.3	4298.1	4310.0	4357.7
25°	3737.4	3745.4	3824.9	3884.6	3936.2	3972.0	4051.5	4135.0	4182.7	4194.7	4230.5
27.5°	3586.4	3602.3	3677.8	3737.4	3781.2	3805.0	3888.5	3976.0	4011.8	4023.7	4059.5
30°	3411.4	3415.4	3490.9	3542.6	3586.4	3606.2	3677.8	3769.2	3797.1	3809.0	3860.7
32.5°	3196.7	3192.7	3264.3	3312.0	3347.8	3371.6	3447.2	3506.8	3534.7	3554.5	3582.4
35°	2938.3	2934.3	2986.0	3041.6	3069.5	3077.4	3153.0	3216.6	3232.5	3248.4	3284.2
37.5°	2648.0	2648.0	2691.8	2719.6	2751.4	2763.3	2799.1	2870.7	2898.5	2894.5	2922.4
40°	2341.9	2326.0	2357.8	2385.6	2393.6	2397.5	2433.3	2489.0	2508.9	2508.9	2528.7
42.5°	2019.8	1996.0	1999.9	2015.8	2023.8	1996.0	2019.8	2055.6	2043.7	2059.6	2063.5
45°	1677.9	1642.1	1626.2	1590.4	1598.4	1570.5	1554.6	1562.6	1558.6	1518.8	1526.8
47.5°	1399.6	1335.9	1308.1	1256.4	1244.5	1212.7	1192.8	1157.0	1125.2	1125.2	1105.3
50°	1165.0	1101.4	1045.7	986.0	966.2	938.3	894.6	846.9	823.0	799.2	779.3
52.5°	978.1	910.5	842.9	779.3	751.5	715.7	656.0	608.3	564.6	540.7	516.9
55°	827.0	751.5	679.9	612.3	576.5	540.7	481.1	425.4	373.7	341.9	322.1
57.5°	711.7	640.1	564.6	493.0	461.2	421.5	357.8	298.2	250.5	214.7	194.8
60°	628.2	556.6	489.0	413.5	381.7	341.9	274.3	218.7	171.0	139.2	115.3
62.5°	556.6	493.0	421.5	353.9	322.1	282.3	218.7	163.0	119.3	87.5	67.6
65°	505.0	441.3	381.7	314.1	286.3	246.5	186.9	135.2	95.4	67.6	47.7
67.5°	445.3	389.6	330.0	274.3	246.5	214.7	159.0	115.3	79.5	55.7	39.8
70°	373.7	330.0	278.3	226.6	206.8	178.9	131.2	95.4	63.6	43.7	31.8
72.5°	298.2	262.4	222.7	182.9	167.0	139.2	107.4	75.5	47.7	31.8	23.9
75°	226.6	198.8	167.0	139.2	123.3	107.4	79.5	55.7	35.8	23.9	15.9
77.5°	155.1	143.1	119.3	95.4	87.5	75.5	51.7	35.8	23.9	15.9	8.0
80°	107.4	95.4	79.5	63.6	55.7	47.7	31.8	23.9	11.9	8.0	4.0
82.5°	67.6	55.7	47.7	39.8	35.8	27.8	19.9	11.9	8.0	4.0	4.0
85°	35.8	31.8	27.8	19.9	19.9	15.9	11.9	8.0	4.0	0.0	0.0
87.5°	19.9	15.9	11.9	8.0	8.0	4.0	4.0	4.0	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°	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9
2.5°	4182.7	4182.7	4178.8	4226.5	4170.8	4226.5	4198.7	4226.5	4186.7	4182.7	4186.7
5°	4214.6	4226.5	4230.5	4274.2	4222.5	4290.1	4266.2	4290.1	4262.3	4270.2	4282.1
7.5°	4278.2	4298.1	4294.1	4349.7	4298.1	4373.6	4357.7	4393.5	4365.6	4373.6	4389.5
10°	4349.7	4373.6	4377.6	4433.2	4385.5	4477.0	4457.1	4496.9	4473.0	4484.9	4504.8
12.5°	4433.2	4461.1	4465.0	4528.7	4477.0	4572.4	4560.5	4600.2	4580.3	4592.3	4616.1
15°	4496.9	4536.6	4544.6	4608.2	4552.5	4651.9	4644.0	4695.7	4663.8	4683.7	4703.6
17.5°	4528.7	4564.4	4580.3	4640.0	4592.3	4691.7	4683.7	4727.5	4703.6	4723.5	4747.3
20°	4508.8	4552.5	4564.4	4624.1	4576.4	4675.8	4663.8	4707.6	4683.7	4699.6	4723.5
22.5°	4437.2	4480.9	4496.9	4552.5	4508.8	4600.2	4596.3	4636.0	4604.2	4624.1	4644.0
25°	4310.0	4357.7	4365.6	4417.3	4369.6	4465.0	4457.1	4500.8	4477.0	4488.9	4516.7
27.5°	4127.1	4182.7	4194.7	4238.4	4202.6	4282.1	4282.1	4317.9	4290.1	4290.1	4317.9
30°	3908.4	3964.1	3972.0	4007.8	3976.0	4047.6	4051.5	4087.3	4043.6	4067.4	4071.4
32.5°	3642.0	3677.8	3701.7	3733.5	3685.8	3777.2	3765.3	3793.1	3769.2	3769.2	3789.1
35°	3320.0	3363.7	3375.6	3415.4	3375.6	3447.2	3447.2	3463.1	3439.2	3439.2	3471.0
37.5°	2970.1	3001.9	3005.9	3045.6	3013.8	3073.4	3069.5	3081.4	3057.5	3073.4	3073.4
40°	2560.5	2584.4	2592.4	2612.2	2608.3	2652.0	2648.0	2656.0	2644.0	2648.0	2656.0
42.5°	2083.4	2115.2	2131.1	2147.0	2123.2	2182.8	2170.9	2182.8	2178.8	2182.8	2194.8
45°	1534.7	1558.6	1570.5	1574.5	1566.5	1602.3	1630.2	1606.3	1610.3	1602.3	1618.2
47.5°	1109.3	1113.3	1105.3	1129.2	1109.3	1125.2	1133.2	1137.1	1113.3	1109.3	1125.2
50°	759.4	779.3	751.5	763.4	759.4	775.3	767.4	771.3	747.5	759.4	751.5
52.5°	505.0	501.0	493.0	497.0	489.0	489.0	489.0	497.0	481.1	473.1	465.2
55°	306.2	298.2	282.3	278.3	278.3	282.3	274.3	266.4	266.4	262.4	262.4
57.5°	178.9	167.0	159.0	155.1	147.1	143.1	139.2	139.2	131.2	131.2	131.2
60°	99.4	87.5	79.5	71.6	71.6	67.6	63.6	59.6	59.6	59.6	55.7
62.5°	51.7	43.7	35.8	31.8	31.8	27.8	23.9	23.9	23.9	23.9	19.9
65°	35.8	27.8	23.9	19.9	19.9	15.9	15.9	15.9	15.9	15.9	15.9
67.5°	27.8	23.9	19.9	15.9	15.9	15.9	11.9	11.9	11.9	11.9	11.9
70°	23.9	15.9	15.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
72.5°	15.9	15.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
75°	11.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P252207

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9	4158.9
2.5°	4222.5	4218.5	4222.5	4230.5	4214.6	4262.3	4238.4	4262.3
5°	4314.0	4317.9	4321.9	4333.8	4314.0	4373.6	4341.8	4377.6
7.5°	4433.2	4437.2	4441.2	4453.1	4441.2	4500.8	4465.0	4496.9
10°	4556.5	4564.4	4564.4	4584.3	4572.4	4628.1	4604.2	4644.0
12.5°	4671.8	4679.7	4687.7	4699.6	4691.7	4751.3	4731.4	4763.2
15°	4763.2	4779.1	4783.1	4799.0	4791.1	4854.7	4830.8	4862.6
17.5°	4807.0	4822.9	4822.9	4842.8	4834.8	4902.4	4870.6	4906.4
20°	4783.1	4795.1	4799.0	4818.9	4811.0	4878.5	4846.7	4890.5
22.5°	4707.6	4711.6	4715.5	4735.4	4731.4	4791.1	4763.2	4791.1
25°	4568.4	4580.3	4576.4	4592.3	4592.3	4640.0	4608.2	4632.0
27.5°	4369.6	4381.5	4381.5	4401.4	4385.5	4433.2	4401.4	4437.2
30°	4127.1	4139.0	4131.1	4147.0	4131.1	4178.8	4154.9	4166.8
32.5°	3836.8	3836.8	3840.8	3844.8	3836.8	3880.6	3856.7	3880.6
35°	3490.9	3498.9	3502.9	3506.8	3498.9	3530.7	3502.9	3518.8
37.5°	3101.3	3121.2	3117.2	3121.2	3109.2	3149.0	3125.1	3133.1
40°	2683.8	2683.8	2679.8	2687.8	2675.8	2707.7	2691.8	2699.7
42.5°	2198.7	2210.7	2194.8	2214.6	2182.8	2226.6	2210.7	2198.7
45°	1650.0	1634.1	1630.2	1634.1	1622.2	1626.2	1638.1	1630.2
47.5°	1125.2	1125.2	1117.3	1105.3	1121.2	1125.2	1109.3	1109.3
50°	755.4	755.4	747.5	743.5	751.5	747.5	739.5	751.5
52.5°	481.1	465.2	465.2	473.1	465.2	457.2	469.2	461.2
55°	262.4	254.5	254.5	262.4	254.5	254.5	250.5	258.4
57.5°	127.2	131.2	127.2	127.2	127.2	127.2	123.3	127.2
60°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
62.5°	23.9	23.9	19.9	19.9	19.9	19.9	19.9	19.9
65°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
67.5°	11.9	11.9	11.9	11.9	11.9	15.9	11.9	11.9
70°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
72.5°	11.9	11.9	15.9	15.9	15.9	15.9	15.9	15.9
75°	8.0	8.0	8.0	4.0	4.0	4.0	4.0	4.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)