

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: P252323

Luminaire Tested: **LD6B70D010TE EU6B60708027 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252323  
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 EU6B60708027 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

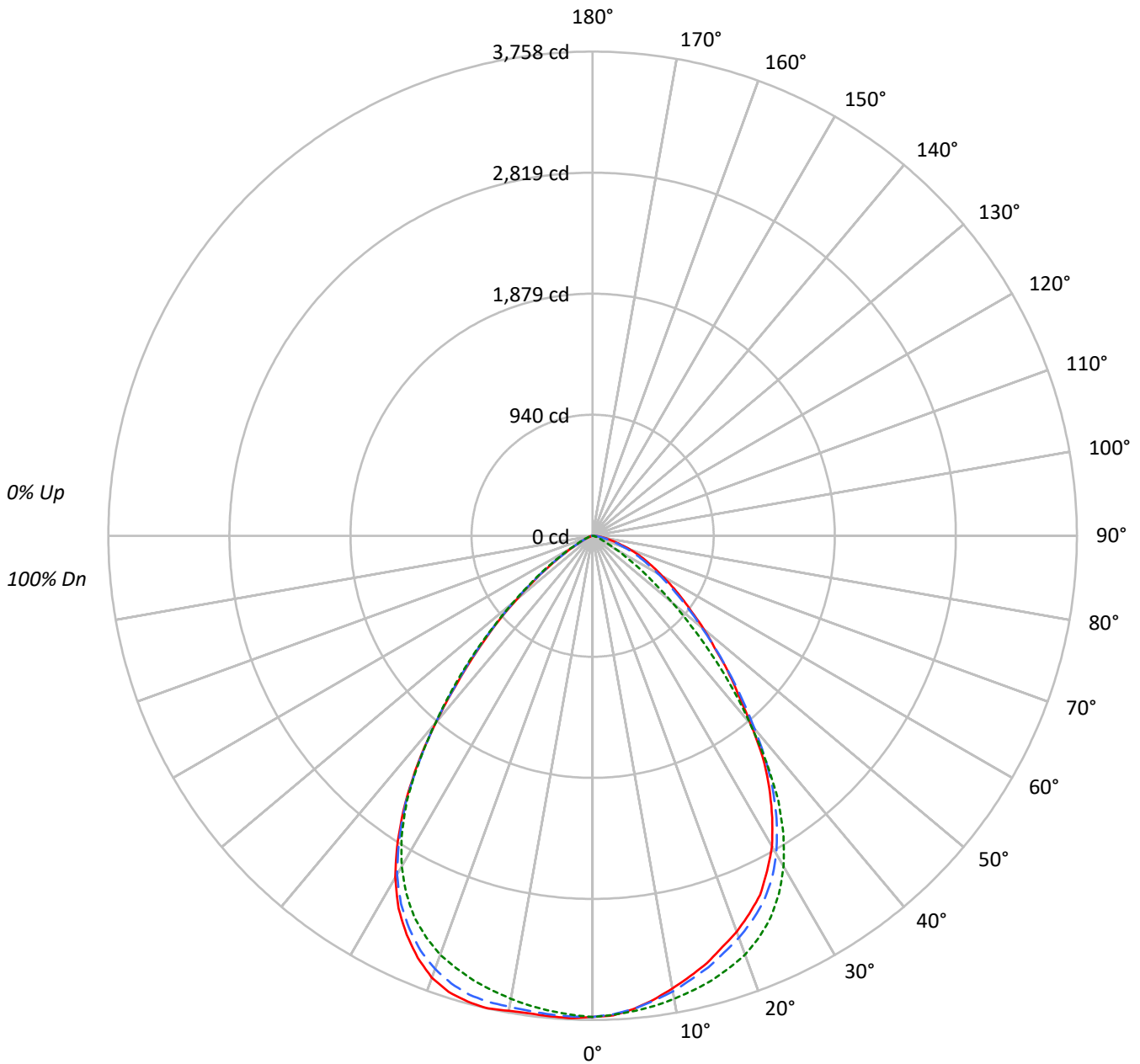
Lumens per Lamp: N/A  
Luminaire Lumens: 6266.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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°	243667	243667	243667
5°	241350	242529	245187
10°	236370	241749	248022
15°	231852	241294	252871
20°	227049	240206	253355
25°	221448	235413	245807
30°	209660	223258	230731
35°	190405	200106	201906
40°	162504	161729	160963
45°	136505	121106	117360
50°	114001	81948	77827
55°	95943	50286	45668
60°	81225	26488	22952
65°	70332	13924	11146
70°	58503	8603	6028
75°	43205	5697	3403
80°	33889	3381	1691
85°	27023	3368	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.0	5.6
10°-20°	1007.9	16.1
20°-30°	1488.3	23.8
30°-40°	1533.8	24.5
40°-50°	1059.4	16.9
50°-60°	522.2	8.3
60°-70°	211.6	3.4
70°-80°	75.4	1.2
80°-90°	15.6	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°	2848.1	45.5
0°-40°	4381.9	69.9
0°-60°	5963.4	95.2
0°-90°	6266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3735	3735	3735	3735	3735	
5°	3685	3685	3703	3730	3744	348
15°	3433	3469	3572	3690	3744	966
25°	3076	3135	3270	3365	3415	1406
35°	2391	2449	2512	2526	2535	1481
45°	1480	1489	1313	1295	1272	1144
55°	844	812	442	415	402	762
65°	456	410	90	72	72	452
75°	171	144	23	14	14	192
85°	36	27	4	0	0	44
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°	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9
2.5°	3725.9	3712.4	3721.4	3703.3	3725.9	3703.3	3707.9	3712.4	3707.9	3712.4	3716.9
5°	3685.3	3671.8	3685.3	3662.7	3685.3	3671.8	3671.8	3676.3	3676.3	3680.8	3685.3
7.5°	3631.2	3617.6	3631.2	3608.6	3635.7	3622.2	3622.2	3631.2	3626.7	3631.2	3640.2
10°	3568.0	3550.0	3563.5	3550.0	3577.0	3559.0	3568.0	3568.0	3568.0	3581.6	3590.6
12.5°	3500.4	3482.3	3500.4	3477.8	3504.9	3491.3	3495.9	3509.4	3513.9	3522.9	3527.4
15°	3432.7	3410.1	3419.2	3405.6	3432.7	3419.2	3423.7	3441.7	3441.7	3455.3	3468.8
17.5°	3347.0	3329.0	3347.0	3329.0	3351.5	3342.5	3351.5	3365.0	3365.0	3378.6	3392.1
20°	3270.3	3252.3	3265.8	3252.3	3279.3	3265.8	3270.3	3288.4	3292.9	3306.4	3319.9
22.5°	3175.6	3162.1	3171.1	3157.5	3184.6	3175.6	3180.1	3198.1	3202.7	3211.7	3234.2
25°	3076.3	3049.3	3062.8	3053.8	3080.9	3067.3	3076.3	3094.4	3103.4	3116.9	3135.0
27.5°	2932.0	2918.5	2927.5	2927.5	2950.0	2936.5	2941.0	2959.1	2972.6	2986.1	3008.7
30°	2783.1	2760.6	2769.6	2774.1	2792.2	2783.1	2792.2	2810.2	2814.7	2832.8	2850.8
32.5°	2593.7	2584.7	2602.7	2593.7	2602.7	2602.7	2607.2	2620.8	2629.8	2638.8	2661.4
35°	2390.7	2372.7	2390.7	2381.7	2404.2	2390.7	2404.2	2417.8	2417.8	2435.8	2449.4
37.5°	2169.7	2147.1	2156.2	2156.2	2165.2	2160.7	2160.7	2183.2	2187.7	2201.3	2214.8
40°	1908.1	1899.0	1917.1	1912.6	1917.1	1917.1	1921.6	1935.1	1944.1	1948.7	1953.2
42.5°	1673.5	1678.0	1682.5	1682.5	1682.5	1682.5	1682.5	1700.6	1696.1	1709.6	1714.1
45°	1479.5	1461.5	1470.5	1466.0	1479.5	1466.0	1479.5	1493.1	1484.0	1497.6	1488.6
47.5°	1281.1	1281.1	1281.1	1276.5	1285.6	1281.1	1290.1	1294.6	1294.6	1294.6	1290.1
50°	1123.2	1109.7	1114.2	1114.2	1118.7	1114.2	1123.2	1127.7	1127.7	1118.7	1100.6
52.5°	969.8	965.3	965.3	974.3	974.3	969.8	969.8	969.8	969.8	956.3	947.3
55°	843.5	834.5	839.0	839.0	839.0	839.0	843.5	839.0	839.0	825.5	811.9
57.5°	730.7	721.7	721.7	721.7	726.2	721.7	721.7	721.7	717.2	703.7	685.6
60°	622.5	618.0	622.5	622.5	627.0	622.5	622.5	622.5	613.5	599.9	581.9
62.5°	532.3	532.3	532.3	536.8	536.8	532.3	532.3	527.8	523.2	505.2	487.2
65°	455.6	451.1	455.6	455.6	460.1	460.1	455.6	451.1	446.6	428.5	410.5
67.5°	378.9	374.4	378.9	378.9	383.4	378.9	378.9	378.9	365.4	356.4	338.3
70°	306.7	302.2	302.2	302.2	306.7	297.7	302.2	302.2	293.2	279.7	261.6
72.5°	234.6	234.6	234.6	234.6	234.6	234.6	230.0	230.0	221.0	207.5	198.5
75°	171.4	171.4	175.9	175.9	171.4	171.4	171.4	166.9	162.4	153.4	144.3
77.5°	126.3	126.3	126.3	126.3	121.8	121.8	121.8	117.3	112.8	108.3	99.2
80°	90.2	90.2	90.2	85.7	90.2	85.7	85.7	85.7	76.7	72.2	67.7
82.5°	63.2	58.6	58.6	58.6	58.6	58.6	58.6	54.1	54.1	49.6	45.1
85°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	31.6	27.1	27.1
87.5°	18.0	22.6	22.6	22.6	22.6	22.6	22.6	18.0	18.0	18.0	13.5
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°	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9
2.5°	3716.9	3716.9	3725.9	3712.4	3734.9	3721.4	3716.9	3739.4	3725.9	3721.4	3730.4
5°	3685.3	3689.8	3694.3	3685.3	3707.9	3694.3	3694.3	3716.9	3707.9	3703.3	3716.9
7.5°	3644.7	3649.2	3658.2	3653.7	3671.8	3662.7	3667.3	3689.8	3680.8	3680.8	3694.3
10°	3595.1	3604.1	3613.1	3613.1	3635.7	3626.7	3626.7	3653.7	3644.7	3649.2	3667.3
12.5°	3536.4	3550.0	3563.5	3568.0	3590.6	3577.0	3581.6	3613.1	3608.6	3613.1	3631.2
15°	3473.3	3491.3	3504.9	3504.9	3531.9	3518.4	3531.9	3563.5	3554.5	3572.5	3595.1
17.5°	3401.1	3419.2	3437.2	3441.7	3468.8	3459.8	3477.8	3509.4	3509.4	3518.4	3545.5
20°	3333.5	3356.0	3365.0	3378.6	3405.6	3401.1	3410.1	3446.2	3446.2	3459.8	3486.8
22.5°	3243.2	3265.8	3283.8	3297.4	3319.9	3319.9	3333.5	3365.0	3365.0	3374.1	3401.1
25°	3144.0	3171.1	3184.6	3198.1	3220.7	3216.2	3229.7	3256.8	3261.3	3270.3	3297.4
27.5°	3017.7	3040.3	3058.3	3067.3	3098.9	3080.9	3094.4	3126.0	3121.5	3130.5	3153.0
30°	2859.8	2882.4	2900.4	2900.4	2927.5	2927.5	2941.0	2954.6	2954.6	2963.6	2981.6
32.5°	2674.9	2702.0	2702.0	2715.5	2733.5	2715.5	2733.5	2751.6	2742.6	2756.1	2769.6
35°	2462.9	2476.4	2480.9	2480.9	2494.5	2489.9	2485.4	2499.0	2489.9	2512.5	2526.0
37.5°	2205.8	2223.8	2214.8	2223.8	2219.3	2205.8	2205.8	2228.3	2210.3	2214.8	2228.3
40°	1957.7	1957.7	1953.2	1930.6	1935.1	1921.6	1917.1	1921.6	1903.5	1899.0	1917.1
42.5°	1700.6	1696.1	1682.5	1650.9	1655.5	1632.9	1614.9	1614.9	1605.8	1601.3	1605.8
45°	1470.5	1457.0	1434.4	1398.3	1389.3	1371.3	1335.2	1326.2	1312.6	1312.6	1317.1
47.5°	1258.5	1240.5	1204.4	1163.8	1141.2	1118.7	1082.6	1069.1	1046.5	1037.5	1046.5
50°	1082.6	1051.0	1005.9	947.3	924.7	897.6	861.6	839.0	816.5	807.4	802.9
52.5°	920.2	875.1	830.0	757.8	739.8	712.7	663.1	640.5	618.0	599.9	599.9
55°	780.4	739.8	676.6	609.0	581.9	554.8	505.2	473.6	451.1	442.1	433.0
57.5°	654.1	609.0	550.3	478.1	451.1	424.0	374.4	342.8	320.3	306.7	297.7
60°	550.3	500.7	442.1	378.9	347.3	320.3	270.6	239.1	216.5	203.0	194.0
62.5°	451.1	410.5	351.8	293.2	266.1	239.1	198.5	166.9	144.3	135.3	121.8
65°	378.9	338.3	284.2	234.6	212.0	184.9	148.9	121.8	103.7	90.2	81.2
67.5°	306.7	275.2	230.0	184.9	162.4	144.3	112.8	90.2	72.2	63.2	58.6
70°	243.6	212.0	175.9	139.8	126.3	108.3	85.7	63.2	54.1	45.1	40.6
72.5°	180.4	157.9	130.8	103.7	90.2	81.2	58.6	49.6	36.1	31.6	27.1
75°	130.8	112.8	94.7	72.2	63.2	58.6	45.1	31.6	27.1	22.6	18.0
77.5°	90.2	81.2	63.2	49.6	45.1	40.6	31.6	22.6	18.0	13.5	13.5
80°	58.6	49.6	40.6	31.6	31.6	27.1	18.0	13.5	13.5	9.0	9.0
82.5°	36.1	31.6	27.1	22.6	18.0	18.0	13.5	9.0	9.0	4.5	4.5
85°	22.6	18.0	13.5	13.5	9.0	9.0	9.0	4.5	4.5	4.5	4.5
87.5°	9.0	9.0	9.0	4.5	4.5	4.5	4.5	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°	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9
2.5°	3730.4	3730.4	3739.4	3725.9	3734.9	3734.9	3743.9	3725.9	3734.9	3739.4	3748.5
5°	3712.4	3716.9	3725.9	3721.4	3725.9	3725.9	3734.9	3712.4	3730.4	3730.4	3743.9
7.5°	3694.3	3694.3	3703.3	3698.8	3707.9	3712.4	3721.4	3703.3	3721.4	3721.4	3734.9
10°	3671.8	3671.8	3685.3	3680.8	3694.3	3698.8	3712.4	3694.3	3712.4	3716.9	3730.4
12.5°	3640.2	3644.7	3658.2	3658.2	3671.8	3680.8	3694.3	3685.3	3707.9	3712.4	3730.4
15°	3604.1	3613.1	3631.2	3626.7	3640.2	3653.7	3671.8	3658.2	3689.8	3698.8	3716.9
17.5°	3559.0	3568.0	3581.6	3581.6	3595.1	3604.1	3626.7	3617.6	3644.7	3649.2	3671.8
20°	3491.3	3504.9	3522.9	3518.4	3531.9	3541.0	3559.0	3550.0	3577.0	3586.1	3608.6
22.5°	3410.1	3419.2	3432.7	3432.7	3446.2	3455.3	3473.3	3459.8	3486.8	3491.3	3509.4
25°	3301.9	3310.9	3319.9	3324.4	3338.0	3342.5	3351.5	3342.5	3365.0	3369.5	3392.1
27.5°	3162.1	3166.6	3180.1	3180.1	3189.1	3193.6	3207.2	3189.1	3220.7	3220.7	3234.2
30°	2995.2	2990.6	3008.7	2999.7	3008.7	3008.7	3022.2	3013.2	3035.8	3026.7	3040.3
32.5°	2774.1	2783.1	2783.1	2774.1	2792.2	2787.7	2787.7	2778.6	2792.2	2796.7	2805.7
35°	2517.0	2530.5	2530.5	2535.1	2539.6	2526.0	2530.5	2503.5	2526.0	2530.5	2535.1
37.5°	2237.3	2223.8	2232.8	2219.3	2241.9	2214.8	2214.8	2196.7	2214.8	2214.8	2219.3
40°	1917.1	1912.6	1921.6	1912.6	1908.1	1903.5	1894.5	1881.0	1899.0	1890.0	1903.5
42.5°	1614.9	1610.3	1610.3	1601.3	1596.8	1596.8	1587.8	1578.8	1574.3	1574.3	1596.8
45°	1303.6	1312.6	1303.6	1299.1	1308.1	1299.1	1303.6	1285.6	1294.6	1285.6	1294.6
47.5°	1042.0	1046.5	1037.5	1028.5	1042.0	1028.5	1028.5	1014.9	1033.0	1033.0	1023.9
50°	807.4	802.9	793.9	802.9	798.4	798.4	798.4	784.9	793.9	780.4	789.4
52.5°	595.4	590.9	590.9	586.4	590.9	586.4	586.4	581.9	581.9	577.4	581.9
55°	433.0	428.5	419.5	419.5	419.5	424.0	419.5	415.0	415.0	410.5	415.0
57.5°	293.2	284.2	284.2	284.2	284.2	279.7	279.7	275.2	279.7	275.2	279.7
60°	189.5	189.5	180.4	180.4	180.4	180.4	180.4	175.9	180.4	180.4	180.4
62.5°	117.3	117.3	112.8	108.3	112.8	108.3	108.3	108.3	112.8	108.3	112.8
65°	76.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
67.5°	54.1	49.6	49.6	49.6	49.6	49.6	49.6	45.1	49.6	49.6	49.6
70°	36.1	36.1	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
72.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
75°	18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
77.5°	13.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
80°	9.0	9.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	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	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: P252323

CATALOG NUMBER: LD6B70D010TE EU6B60708027 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9
2.5°	3734.9	3739.4	3730.4	3734.9	3725.9	3734.9	3739.4	3748.5
5°	3725.9	3730.4	3721.4	3730.4	3721.4	3730.4	3734.9	3743.9
7.5°	3716.9	3725.9	3716.9	3725.9	3716.9	3725.9	3730.4	3739.4
10°	3716.9	3730.4	3721.4	3734.9	3721.4	3730.4	3739.4	3743.9
12.5°	3716.9	3730.4	3725.9	3734.9	3730.4	3739.4	3748.5	3757.5
15°	3707.9	3721.4	3712.4	3725.9	3721.4	3725.9	3743.9	3743.9
17.5°	3658.2	3671.8	3671.8	3680.8	3680.8	3694.3	3703.3	3712.4
20°	3595.1	3608.6	3604.1	3617.6	3617.6	3631.2	3640.2	3649.2
22.5°	3500.4	3518.4	3513.9	3527.4	3522.9	3531.9	3550.0	3545.5
25°	3378.6	3401.1	3396.6	3405.6	3401.1	3401.1	3410.1	3414.7
27.5°	3229.7	3243.2	3238.7	3247.8	3238.7	3247.8	3256.8	3261.3
30°	3035.8	3044.8	3040.3	3044.8	3040.3	3049.3	3053.8	3062.8
32.5°	2801.2	2814.7	2801.2	2810.2	2805.7	2805.7	2823.7	2814.7
35°	2521.5	2526.0	2530.5	2530.5	2521.5	2526.0	2535.1	2535.1
37.5°	2210.3	2232.8	2205.8	2219.3	2214.8	2214.8	2214.8	2228.3
40°	1885.5	1890.0	1881.0	1881.0	1881.0	1876.5	1894.5	1890.0
42.5°	1578.8	1583.3	1578.8	1565.2	1569.7	1569.7	1583.3	1565.2
45°	1281.1	1290.1	1285.6	1285.6	1276.5	1276.5	1281.1	1272.0
47.5°	1014.9	1023.9	1010.4	1014.9	1005.9	1014.9	1010.4	1019.4
50°	771.3	780.4	775.9	780.4	780.4	771.3	784.9	766.8
52.5°	577.4	581.9	577.4	572.9	568.4	568.4	577.4	572.9
55°	410.5	406.0	406.0	406.0	410.5	410.5	406.0	401.5
57.5°	275.2	275.2	270.6	270.6	275.2	266.1	270.6	266.1
60°	175.9	175.9	175.9	175.9	171.4	175.9	175.9	175.9
62.5°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
65°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
67.5°	45.1	49.6	49.6	49.6	45.1	45.1	45.1	45.1
70°	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
72.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
75°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
77.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	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)