

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: P252637

Luminaire Tested: **LD6B70D010TE EU6B60708035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60708035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7246.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

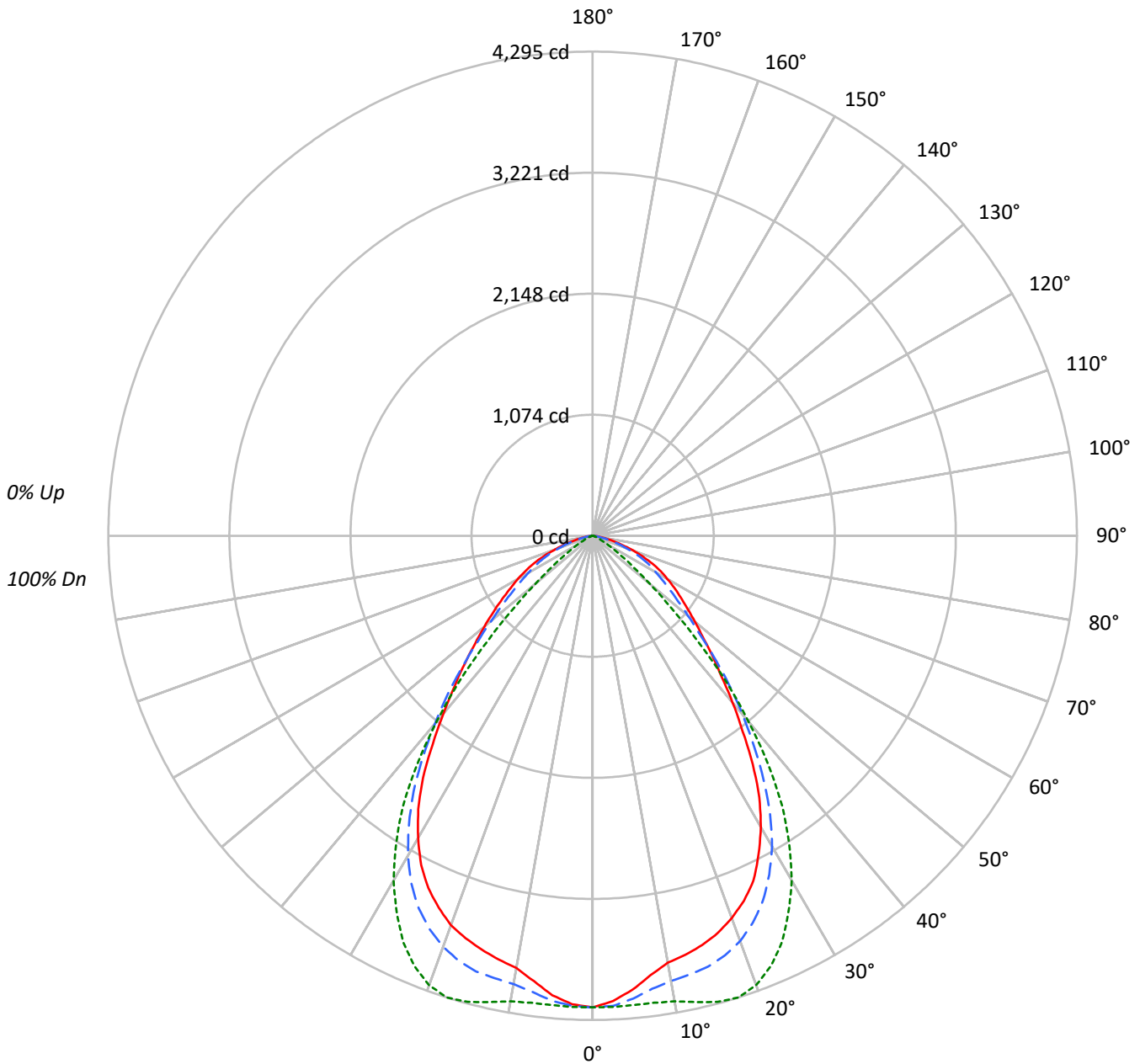
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	272934	272934	272934
5°	264789	273656	267958
10°	254713	277781	257920
15°	253816	289094	256754
20°	250488	294477	255195
25°	243007	286177	248226
30°	224802	265972	233179
35°	197215	233811	208771
40°	164344	183293	175058
45°	138332	120931	147696
50°	119776	66267	127134
55°	108375	35204	111127
60°	99701	18307	99701
65°	90339	9710	88100
70°	72886	5532	67354
75°	49986	3655	46331
80°	32724	1803	29080
85°	21708	3593	18115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.1	5.4
10°-20°	1128.0	15.6
20°-30°	1666.7	23.0
30°-40°	1683.5	23.2
40°-50°	1160.3	16.0
50°-60°	666.4	9.2
60°-70°	387.9	5.4
70°-80°	141.5	2.0
80°-90°	21.6	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°	3184.8	44.0
0°-40°	4868.2	67.2
0°-60°	6695.0	92.4
0°-90°	7246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7246.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4184	4184	4184	4184	4184	
5°	4043	4121	4179	4140	4092	379
15°	3758	3956	4280	4000	3801	1059
25°	3376	3574	3976	3647	3448	1538
35°	2476	2646	2936	2766	2621	1537
45°	1499	1519	1311	1615	1601	1166
55°	953	837	310	871	977	858
65°	585	493	63	488	571	573
75°	198	160	14	155	184	223
85°	29	14	5	19	24	37
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°	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5
2.5°	4130.3	4135.1	4139.9	4135.1	4139.9	4159.3	4144.8	4154.5	4154.5	4159.3	4173.8
5°	4043.2	4043.2	4052.9	4048.1	4062.6	4081.9	4067.4	4081.9	4086.7	4096.4	4120.6
7.5°	3932.0	3932.0	3936.8	3936.8	3956.2	3975.5	3965.8	3985.2	4004.5	4023.9	4052.9
10°	3844.9	3854.6	3854.6	3859.4	3878.8	3903.0	3898.1	3922.3	3941.7	3970.7	4009.4
12.5°	3806.2	3811.1	3811.1	3820.7	3840.1	3864.3	3859.4	3883.6	3912.6	3946.5	3985.2
15°	3757.9	3767.5	3762.7	3772.4	3791.7	3815.9	3811.1	3835.3	3869.1	3903.0	3956.2
17.5°	3695.0	3699.8	3704.7	3704.7	3724.0	3743.4	3743.4	3767.5	3806.2	3844.9	3903.0
20°	3607.9	3617.6	3617.6	3622.5	3637.0	3666.0	3661.1	3685.3	3724.0	3762.7	3825.6
22.5°	3506.4	3511.2	3511.2	3516.1	3540.2	3554.7	3559.6	3578.9	3612.8	3656.3	3714.3
25°	3375.8	3380.6	3375.8	3390.3	3400.0	3429.0	3419.3	3443.5	3482.2	3516.1	3574.1
27.5°	3187.2	3196.9	3196.9	3201.7	3225.9	3250.1	3250.1	3274.2	3308.1	3332.3	3390.3
30°	2984.1	2998.6	2984.1	3008.2	3017.9	3037.3	3051.8	3066.3	3095.3	3129.1	3182.3
32.5°	2751.9	2747.1	2751.9	2761.6	2790.6	2805.1	2814.8	2829.3	2858.3	2887.3	2930.9
35°	2476.2	2485.9	2490.7	2510.1	2510.1	2534.3	2539.1	2548.8	2592.3	2611.7	2645.5
37.5°	2186.0	2195.7	2200.6	2210.2	2229.6	2239.2	2253.8	2268.3	2297.3	2331.1	2350.5
40°	1929.7	1929.7	1934.6	1944.2	1958.7	1963.6	1978.1	1997.4	2016.8	2045.8	2065.1
42.5°	1687.9	1692.7	1687.9	1697.6	1712.1	1731.4	1726.6	1750.8	1755.6	1775.0	1789.5
45°	1499.3	1499.3	1489.6	1499.3	1499.3	1518.6	1513.8	1523.5	1518.6	1528.3	1518.6
47.5°	1320.3	1325.2	1320.3	1325.2	1325.2	1325.2	1330.0	1320.3	1325.2	1310.7	1281.6
50°	1180.1	1184.9	1175.2	1180.1	1175.2	1170.4	1175.2	1160.7	1155.9	1136.6	1107.5
52.5°	1059.2	1054.3	1049.5	1049.5	1049.5	1044.7	1039.8	1025.3	1010.8	991.5	957.6
55°	952.8	947.9	943.1	943.1	933.4	928.6	928.6	914.1	899.6	875.4	836.7
57.5°	856.0	851.2	846.4	846.4	841.5	831.9	831.9	817.3	798.0	769.0	735.1
60°	764.1	764.1	764.1	759.3	759.3	749.6	749.6	735.1	715.8	686.8	648.1
62.5°	681.9	677.1	677.1	677.1	677.1	672.3	667.4	657.7	638.4	609.4	575.5
65°	585.2	585.2	585.2	585.2	580.4	580.4	580.4	565.9	556.2	527.2	493.3
67.5°	478.8	478.8	478.8	478.8	474.0	478.8	478.8	469.1	459.5	430.4	401.4
70°	382.1	377.2	372.4	377.2	372.4	372.4	377.2	367.6	362.7	338.5	309.5
72.5°	280.5	285.3	280.5	280.5	280.5	275.7	280.5	275.7	266.0	246.7	227.3
75°	198.3	203.1	203.1	198.3	198.3	198.3	193.5	193.5	183.8	169.3	159.6
77.5°	135.4	135.4	135.4	135.4	130.6	130.6	130.6	125.7	120.9	111.2	101.6
80°	87.1	87.1	87.1	87.1	82.2	82.2	82.2	77.4	77.4	67.7	58.0
82.5°	53.2	53.2	53.2	53.2	53.2	53.2	48.4	48.4	43.5	38.7	33.9
85°	29.0	29.0	29.0	29.0	29.0	29.0	29.0	24.2	24.2	19.3	14.5
87.5°	9.7	9.7	14.5	14.5	14.5	14.5	14.5	14.5	9.7	9.7	9.7
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°	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5
2.5°	4164.1	4169.0	4169.0	4169.0	4183.5	4188.3	4173.8	4159.3	4188.3	4183.5	4193.1
5°	4115.8	4130.3	4139.9	4144.8	4159.3	4169.0	4154.5	4149.6	4173.8	4178.6	4183.5
7.5°	4057.7	4081.9	4106.1	4115.8	4135.1	4144.8	4139.9	4139.9	4169.0	4178.6	4178.6
10°	4019.0	4052.9	4081.9	4106.1	4130.3	4144.8	4144.8	4149.6	4183.5	4193.1	4202.8
12.5°	4009.4	4052.9	4091.6	4125.4	4144.8	4169.0	4173.8	4188.3	4222.2	4236.7	4236.7
15°	3985.2	4043.2	4091.6	4135.1	4164.1	4193.1	4202.8	4231.8	4270.5	4280.2	4289.9
17.5°	3941.7	3999.7	4057.7	4110.9	4149.6	4173.8	4202.8	4231.8	4280.2	4294.7	4299.6
20°	3864.3	3932.0	3990.0	4043.2	4081.9	4115.8	4144.8	4178.6	4222.2	4241.5	4246.3
22.5°	3748.2	3815.9	3873.9	3932.0	3970.7	3999.7	4028.7	4067.4	4110.9	4130.3	4130.3
25°	3607.9	3670.8	3733.7	3777.2	3815.9	3849.8	3864.3	3907.8	3951.3	3975.5	3975.5
27.5°	3429.0	3487.0	3545.1	3593.4	3617.6	3646.6	3670.8	3709.5	3743.4	3762.7	3782.1
30°	3201.7	3259.7	3312.9	3361.3	3390.3	3419.3	3443.5	3472.5	3506.4	3530.6	3535.4
32.5°	2955.0	3003.4	3056.6	3105.0	3134.0	3143.7	3167.8	3196.9	3225.9	3245.2	3250.1
35°	2684.2	2718.1	2751.9	2795.4	2824.5	2824.5	2848.6	2868.0	2892.2	2935.7	2926.0
37.5°	2365.0	2413.4	2437.5	2452.0	2471.4	2490.7	2495.6	2519.8	2548.8	2558.4	2573.0
40°	2065.1	2079.6	2094.2	2094.2	2113.5	2113.5	2113.5	2118.3	2147.4	2152.2	2171.5
42.5°	1765.3	1765.3	1750.8	1736.3	1741.1	1736.3	1712.1	1712.1	1726.6	1745.9	1745.9
45°	1484.8	1450.9	1407.4	1373.5	1349.4	1339.7	1310.7	1310.7	1305.8	1310.7	1330.0
47.5°	1247.8	1189.8	1117.2	1049.5	1025.3	1006.0	962.4	943.1	933.4	938.3	947.9
50°	1049.5	986.6	904.4	822.2	778.7	754.5	701.3	667.4	662.6	652.9	672.3
52.5°	904.4	827.0	740.0	643.2	599.7	561.0	503.0	474.0	454.6	454.6	459.5
55°	778.7	696.4	599.7	503.0	459.5	430.4	372.4	333.7	314.4	309.5	324.0
57.5°	672.3	594.9	498.1	401.4	357.9	324.0	266.0	232.1	217.6	208.0	212.8
60°	590.0	512.7	415.9	324.0	285.3	246.7	198.3	159.6	140.3	140.3	145.1
62.5°	512.7	440.1	353.1	266.0	232.1	198.3	145.1	111.2	96.7	91.9	96.7
65°	435.3	367.6	295.0	222.5	188.6	159.6	116.1	87.1	67.7	62.9	67.7
67.5°	353.1	299.9	237.0	178.9	149.9	125.7	87.1	62.9	48.4	43.5	48.4
70°	275.7	227.3	178.9	130.6	111.2	91.9	62.9	48.4	33.9	29.0	33.9
72.5°	198.3	164.4	125.7	91.9	77.4	62.9	43.5	33.9	24.2	19.3	24.2
75°	135.4	111.2	82.2	58.0	48.4	43.5	29.0	19.3	14.5	14.5	14.5
77.5°	87.1	67.7	53.2	38.7	29.0	24.2	14.5	9.7	9.7	9.7	9.7
80°	48.4	38.7	29.0	19.3	14.5	14.5	9.7	9.7	4.8	4.8	4.8
82.5°	29.0	19.3	14.5	9.7	9.7	4.8	4.8	4.8	4.8	4.8	4.8
85°	14.5	9.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5
2.5°	4173.8	4178.6	4164.1	4183.5	4169.0	4188.3	4188.3	4169.0	4173.8	4164.1	4183.5
5°	4164.1	4164.1	4154.5	4169.0	4149.6	4169.0	4164.1	4130.3	4139.9	4120.6	4139.9
7.5°	4164.1	4154.5	4139.9	4154.5	4130.3	4144.8	4125.4	4091.6	4081.9	4057.7	4057.7
10°	4178.6	4164.1	4144.8	4149.6	4125.4	4130.3	4101.3	4052.9	4038.4	4009.4	3999.7
12.5°	4212.5	4198.0	4169.0	4178.6	4144.8	4144.8	4106.1	4048.1	4019.0	3980.3	3970.7
15°	4260.9	4236.7	4202.8	4207.7	4173.8	4154.5	4106.1	4038.4	3999.7	3946.5	3932.0
17.5°	4270.5	4246.3	4202.8	4202.8	4159.3	4135.1	4077.1	3999.7	3951.3	3898.1	3869.1
20°	4217.3	4193.1	4144.8	4139.9	4101.3	4067.4	4004.5	3927.1	3878.8	3820.7	3796.6
22.5°	4106.1	4077.1	4033.5	4028.7	3990.0	3970.7	3903.0	3825.6	3777.2	3719.2	3699.8
25°	3941.7	3927.1	3883.6	3878.8	3844.9	3820.7	3762.7	3690.2	3646.6	3588.6	3569.3
27.5°	3748.2	3733.7	3690.2	3690.2	3651.5	3637.0	3583.8	3516.1	3482.2	3429.0	3404.8
30°	3516.1	3496.7	3472.5	3467.7	3433.8	3419.3	3371.0	3308.1	3274.2	3230.7	3221.0
32.5°	3240.4	3225.9	3211.4	3206.5	3172.7	3158.2	3124.3	3061.4	3032.4	2993.7	2979.2
35°	2921.2	2911.5	2897.0	2892.2	2877.7	2863.1	2829.3	2780.9	2766.4	2737.4	2722.9
37.5°	2553.6	2563.3	2553.6	2553.6	2539.1	2543.9	2514.9	2485.9	2471.4	2452.0	2442.4
40°	2157.0	2176.4	2190.9	2190.9	2186.0	2205.4	2200.6	2176.4	2171.5	2161.9	2157.0
42.5°	1755.6	1765.3	1794.3	1813.6	1808.8	1857.2	1862.0	1881.4	1895.9	1886.2	1891.0
45°	1334.8	1363.9	1402.6	1421.9	1446.1	1509.0	1542.8	1581.5	1615.4	1634.7	1629.9
47.5°	962.4	996.3	1039.8	1068.8	1112.4	1189.8	1276.8	1325.2	1373.5	1397.7	1421.9
50°	696.4	730.3	783.5	827.0	856.0	962.4	1054.3	1117.2	1170.4	1204.3	1228.4
52.5°	488.5	527.2	585.2	623.9	667.4	769.0	875.4	947.9	1006.0	1049.5	1073.7
55°	338.5	382.1	435.3	474.0	522.3	628.7	730.3	807.7	870.6	909.2	938.3
57.5°	237.0	275.7	328.9	362.7	411.1	512.7	614.2	691.6	754.5	793.2	827.0
60°	159.6	198.3	251.5	285.3	324.0	425.6	517.5	599.7	657.7	696.4	730.3
62.5°	111.2	145.1	198.3	232.1	266.0	353.1	440.1	512.7	570.7	614.2	643.2
65°	87.1	116.1	159.6	188.6	222.5	295.0	367.6	430.4	488.5	532.0	551.3
67.5°	62.9	91.9	125.7	149.9	174.1	237.0	299.9	348.2	401.4	435.3	459.5
70°	43.5	62.9	91.9	111.2	130.6	178.9	227.3	270.8	309.5	333.7	353.1
72.5°	33.9	43.5	62.9	77.4	91.9	125.7	164.4	198.3	227.3	246.7	266.0
75°	19.3	29.0	43.5	53.2	62.9	87.1	111.2	135.4	154.8	169.3	178.9
77.5°	9.7	14.5	24.2	29.0	38.7	53.2	72.5	87.1	101.6	111.2	120.9
80°	9.7	9.7	14.5	14.5	19.3	29.0	38.7	48.4	58.0	67.7	72.5
82.5°	4.8	4.8	9.7	9.7	9.7	14.5	19.3	29.0	33.9	38.7	43.5
85°	4.8	4.8	4.8	4.8	4.8	9.7	9.7	14.5	19.3	24.2	24.2
87.5°	0.0	0.0	4.8	4.8	4.8	4.8	4.8	9.7	9.7	9.7	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



TEST NUMBER: P252637

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5	4183.5
2.5°	4169.0	4178.6	4173.8	4183.5	4169.0	4164.1	4173.8	4159.3
5°	4115.8	4120.6	4115.8	4115.8	4106.1	4096.4	4106.1	4091.6
7.5°	4033.5	4033.5	4019.0	4019.0	3999.7	3990.0	3990.0	3985.2
10°	3965.8	3951.3	3936.8	3941.7	3912.6	3903.0	3898.1	3893.3
12.5°	3932.0	3922.3	3898.1	3898.1	3869.1	3859.4	3854.6	3849.8
15°	3893.3	3873.9	3854.6	3849.8	3825.6	3815.9	3811.1	3801.4
17.5°	3825.6	3811.1	3786.9	3786.9	3762.7	3757.9	3748.2	3743.4
20°	3753.0	3733.7	3714.3	3714.3	3685.3	3685.3	3670.8	3675.7
22.5°	3651.5	3637.0	3617.6	3617.6	3593.4	3588.6	3574.1	3569.3
25°	3530.6	3511.2	3496.7	3491.9	3472.5	3462.9	3458.0	3448.3
27.5°	3371.0	3356.5	3341.9	3332.3	3308.1	3303.3	3288.7	3293.6
30°	3172.7	3163.0	3158.2	3148.5	3119.5	3109.8	3109.8	3095.3
32.5°	2955.0	2940.5	2930.9	2916.3	2892.2	2887.3	2872.8	2877.7
35°	2689.0	2669.7	2655.2	2660.0	2631.0	2626.2	2616.5	2621.3
37.5°	2413.4	2394.0	2374.7	2369.8	2345.6	2345.6	2331.1	2331.1
40°	2128.0	2108.7	2099.0	2099.0	2070.0	2074.8	2060.3	2055.5
42.5°	1871.7	1852.3	1847.5	1842.7	1828.2	1823.3	1808.8	1813.6
45°	1629.9	1625.0	1625.0	1615.4	1600.8	1596.0	1600.8	1600.8
47.5°	1417.1	1421.9	1417.1	1417.1	1407.4	1417.1	1407.4	1412.2
50°	1238.1	1247.8	1247.8	1247.8	1243.0	1247.8	1247.8	1252.6
52.5°	1088.2	1102.7	1097.9	1102.7	1097.9	1107.5	1102.7	1107.5
55°	957.6	967.3	972.1	977.0	977.0	977.0	977.0	977.0
57.5°	836.7	851.2	856.0	860.9	860.9	870.6	860.9	860.9
60°	740.0	754.5	759.3	764.1	764.1	769.0	759.3	764.1
62.5°	652.9	667.4	667.4	672.3	672.3	672.3	662.6	667.4
65°	565.9	570.7	575.5	575.5	570.7	570.7	565.9	570.7
67.5°	469.1	474.0	469.1	469.1	464.3	464.3	454.6	459.5
70°	362.7	362.7	367.6	362.7	357.9	362.7	357.9	353.1
72.5°	270.8	270.8	270.8	266.0	266.0	261.2	266.0	266.0
75°	183.8	183.8	188.6	188.6	188.6	188.6	183.8	183.8
77.5°	120.9	120.9	120.9	120.9	125.7	120.9	120.9	120.9
80°	77.4	77.4	82.2	82.2	77.4	77.4	77.4	77.4
82.5°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
85°	29.0	29.0	29.0	29.0	24.2	24.2	24.2	24.2
87.5°	14.5	14.5	14.5	14.5	14.5	14.5	9.7	9.7
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)