

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: P252741

Luminaire Tested: **LD6B70D010TE EU6B60708035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60708035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K 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): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

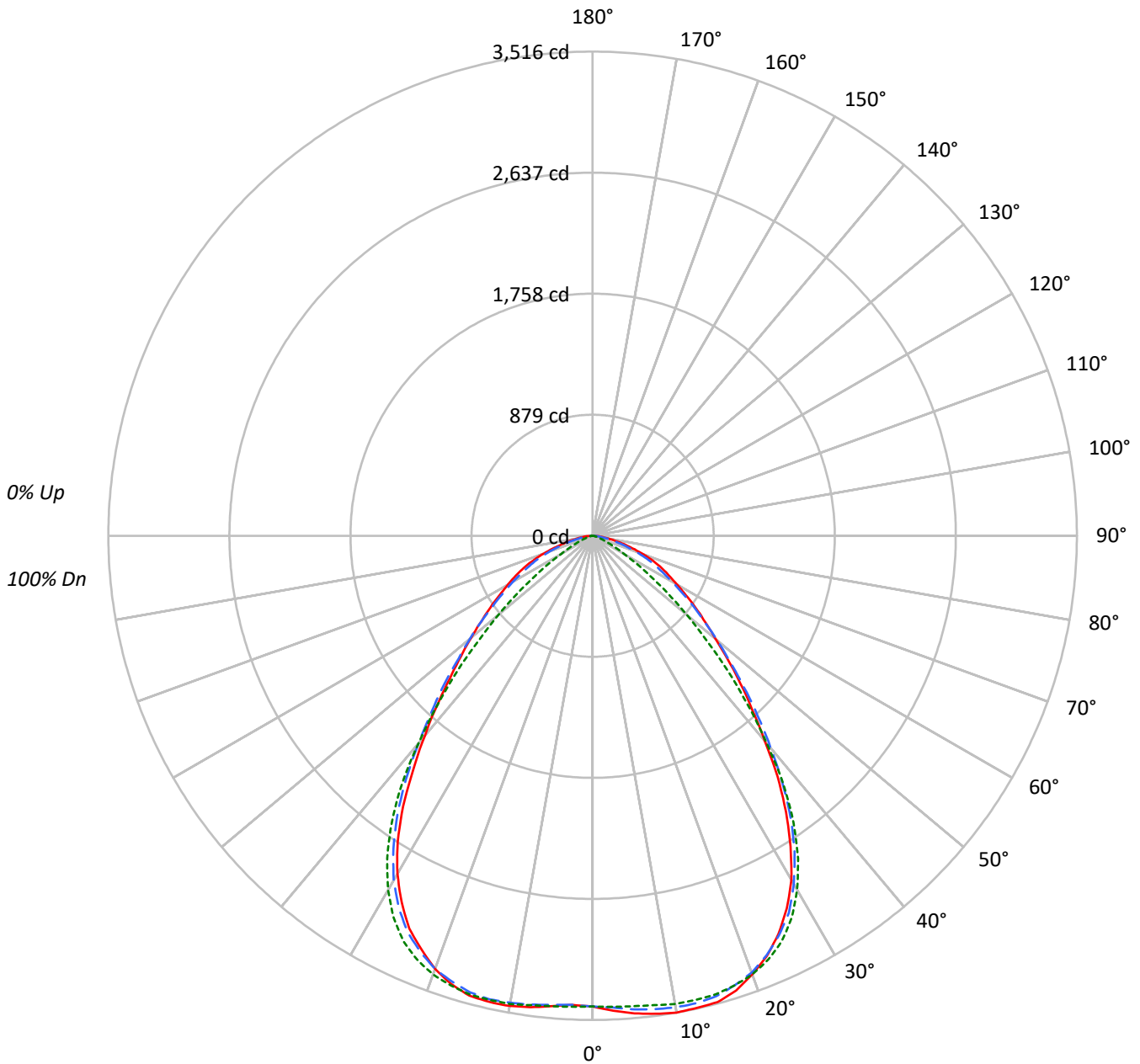
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252741

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBDW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252741

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBDW1H

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	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	223051	223051	223051
5°	228023	224538	224538
10°	232898	228738	229698
15°	236802	232878	233533
20°	235353	235353	232333
25°	229748	233930	226616
30°	217487	223680	213480
35°	194881	202583	191034
40°	165562	167623	161440
45°	140103	128053	135195
50°	118284	90311	116812
55°	103962	58305	102858
60°	92120	34708	92759
65°	85106	20902	85106
70°	73801	11998	71951
75°	58506	7310	54851
80°	43619	5448	41778
85°	39823	3593	36230



TEST NUMBER: P252741

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.2	4.9
10°-20°	974.2	14.4
20°-30°	1465.1	21.6
30°-40°	1540.4	22.7
40°-50°	1150.8	17.0
50°-60°	716.4	10.6
60°-70°	407.4	6.0
70°-80°	167.8	2.5
80°-90°	34.7	0.5
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°	2768.5	40.8
0°-40°	4308.9	63.5
0°-60°	6176.1	91.0
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°	3419	3419	3419	3419	3419	
5°	3482	3453	3429	3419	3429	333
15°	3506	3462	3448	3433	3458	986
25°	3192	3201	3250	3177	3148	1461
35°	2447	2510	2544	2471	2399	1518
45°	1518	1552	1388	1523	1465	1177
55°	914	895	513	880	904	822
65°	551	493	135	493	551	543
75°	232	184	29	179	218	252
85°	53	34	5	29	48	59
90°	0	0	0	0	0	



TEST NUMBER: P252741

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9
2.5°	3452.8	3447.9	3452.8	3443.1	3438.3	3438.3	3443.1	3433.4	3428.6	3433.4	3428.6
5°	3481.8	3472.1	3477.0	3472.1	3462.5	3462.5	3467.3	3452.8	3452.8	3457.6	3452.8
7.5°	3501.1	3501.1	3501.1	3491.5	3486.6	3481.8	3491.5	3477.0	3472.1	3472.1	3467.3
10°	3515.6	3510.8	3515.6	3506.0	3496.3	3491.5	3501.1	3491.5	3481.8	3491.5	3477.0
12.5°	3510.8	3510.8	3510.8	3506.0	3496.3	3491.5	3501.1	3486.6	3481.8	3486.6	3477.0
15°	3506.0	3491.5	3496.3	3491.5	3477.0	3477.0	3481.8	3467.3	3457.6	3472.1	3462.5
17.5°	3462.5	3452.8	3457.6	3447.9	3438.3	3433.4	3438.3	3433.4	3423.8	3433.4	3423.8
20°	3389.9	3389.9	3394.8	3385.1	3375.4	3370.6	3380.2	3370.6	3360.9	3375.4	3375.4
22.5°	3302.9	3302.9	3302.9	3298.0	3293.2	3293.2	3293.2	3288.4	3283.5	3293.2	3298.0
25°	3191.6	3186.8	3191.6	3196.5	3191.6	3186.8	3191.6	3191.6	3182.0	3201.3	3201.3
27.5°	3051.4	3051.4	3061.1	3056.2	3056.2	3051.4	3061.1	3061.1	3056.2	3070.8	3085.3
30°	2887.0	2877.3	2887.0	2887.0	2891.8	2891.8	2896.7	2896.7	2896.7	2911.2	2920.8
32.5°	2674.2	2679.0	2693.6	2688.7	2683.9	2698.4	2698.4	2708.1	2712.9	2722.6	2727.4
35°	2446.9	2451.8	2451.8	2456.6	2466.3	2456.6	2480.8	2475.9	2480.8	2500.1	2509.8
37.5°	2205.1	2190.6	2214.8	2205.1	2210.0	2210.0	2219.6	2224.5	2239.0	2263.2	2263.2
40°	1944.0	1948.8	1958.5	1963.3	1968.2	1968.2	1968.2	1982.7	1987.5	2016.5	2011.7
42.5°	1716.7	1716.7	1726.4	1731.2	1731.2	1731.2	1731.2	1745.7	1755.4	1765.1	1774.7
45°	1518.5	1503.9	1513.6	1513.6	1523.3	1518.5	1528.1	1537.8	1542.6	1557.1	1552.3
47.5°	1329.9	1325.0	1329.9	1334.7	1329.9	1334.7	1339.5	1344.4	1349.2	1349.2	1349.2
50°	1165.4	1165.4	1170.3	1175.1	1175.1	1175.1	1175.1	1179.9	1179.9	1189.6	1179.9
52.5°	1030.0	1034.9	1034.9	1030.0	1034.9	1034.9	1039.7	1039.7	1034.9	1034.9	1020.4
55°	914.0	909.1	914.0	909.1	914.0	914.0	909.1	909.1	904.3	899.5	894.6
57.5°	802.7	802.7	802.7	802.7	797.9	802.7	797.9	793.1	793.1	783.4	768.9
60°	706.0	706.0	706.0	706.0	706.0	701.2	706.0	701.2	691.5	681.9	662.5
62.5°	623.8	619.0	623.8	619.0	619.0	614.2	614.2	609.3	599.6	590.0	570.6
65°	551.3	556.1	551.3	551.3	546.4	541.6	541.6	536.8	522.3	512.6	493.3
67.5°	473.9	469.1	469.1	469.1	464.2	464.2	464.2	454.6	444.9	430.4	411.0
70°	386.9	386.9	386.9	382.0	382.0	377.2	377.2	372.4	362.7	353.0	328.8
72.5°	304.7	304.7	304.7	295.0	299.8	295.0	295.0	285.3	280.5	266.0	251.5
75°	232.1	232.1	227.3	227.3	222.4	217.6	217.6	212.8	207.9	198.3	183.8
77.5°	169.3	169.3	169.3	164.4	159.6	154.7	154.7	149.9	145.1	140.2	130.6
80°	116.1	116.1	116.1	116.1	111.2	106.4	106.4	101.6	101.6	96.7	87.0
82.5°	77.4	77.4	77.4	77.4	72.5	72.5	72.5	67.7	62.9	62.9	53.2
85°	53.2	53.2	48.4	48.4	48.4	48.4	43.5	43.5	38.7	33.9	33.9
87.5°	29.0	29.0	29.0	29.0	24.2	24.2	24.2	24.2	19.3	19.3	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: P252741

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9
2.5°	3443.1	3443.1	3438.3	3423.8	3428.6	3423.8	3428.6	3423.8	3409.3	3423.8	3409.3
5°	3462.5	3467.3	3457.6	3438.3	3443.1	3438.3	3438.3	3433.4	3418.9	3428.6	3418.9
7.5°	3481.8	3477.0	3472.1	3452.8	3457.6	3452.8	3452.8	3443.1	3428.6	3438.3	3423.8
10°	3491.5	3491.5	3481.8	3462.5	3462.5	3457.6	3462.5	3457.6	3438.3	3452.8	3443.1
12.5°	3491.5	3486.6	3486.6	3462.5	3467.3	3462.5	3467.3	3457.6	3443.1	3452.8	3447.9
15°	3477.0	3477.0	3472.1	3447.9	3452.8	3452.8	3457.6	3447.9	3433.4	3447.9	3438.3
17.5°	3447.9	3447.9	3443.1	3423.8	3433.4	3433.4	3438.3	3428.6	3414.1	3423.8	3423.8
20°	3389.9	3394.8	3394.8	3380.2	3389.9	3389.9	3394.8	3389.9	3385.1	3389.9	3380.2
22.5°	3322.2	3331.9	3331.9	3317.4	3327.1	3327.1	3341.6	3336.7	3327.1	3331.9	3327.1
25°	3220.7	3230.3	3240.0	3230.3	3240.0	3240.0	3254.5	3249.7	3240.0	3249.7	3235.2
27.5°	3104.6	3109.4	3119.1	3109.4	3123.9	3119.1	3133.6	3128.8	3114.3	3128.8	3123.9
30°	2940.2	2959.5	2974.0	2959.5	2974.0	2974.0	2983.7	2978.9	2974.0	2969.2	2969.2
32.5°	2756.4	2775.8	2775.8	2770.9	2780.6	2780.6	2785.4	2775.8	2770.9	2775.8	2780.6
35°	2529.1	2538.8	2548.5	2543.6	2548.5	2553.3	2548.5	2553.3	2538.8	2543.6	2543.6
37.5°	2282.5	2292.2	2292.2	2277.7	2287.3	2287.3	2277.7	2277.7	2268.0	2277.7	2258.3
40°	2021.4	2011.7	2016.5	2006.9	1997.2	1997.2	1992.4	1973.0	1963.3	1968.2	1973.0
42.5°	1765.1	1765.1	1750.6	1726.4	1702.2	1702.2	1687.7	1678.0	1658.7	1668.4	1663.5
45°	1547.5	1523.3	1503.9	1465.3	1450.7	1441.1	1416.9	1392.7	1383.0	1387.9	1383.0
47.5°	1339.5	1320.2	1271.8	1218.6	1204.1	1189.6	1160.6	1131.6	1121.9	1112.2	1112.2
50°	1165.4	1131.6	1078.4	1020.4	996.2	972.0	933.3	904.3	885.0	889.8	889.8
52.5°	1005.9	967.2	904.3	831.8	802.7	773.7	739.9	706.0	691.5	686.7	686.7
55°	865.6	822.1	759.2	677.0	652.8	619.0	575.5	536.8	517.4	512.6	522.3
57.5°	739.9	701.2	628.7	546.4	517.4	483.6	440.1	406.2	382.0	377.2	382.0
60°	638.3	585.1	522.3	444.9	406.2	377.2	328.8	299.8	275.6	266.0	270.8
62.5°	536.8	488.4	425.6	348.2	319.2	290.1	246.6	212.8	193.4	188.6	193.4
65°	459.4	411.0	353.0	285.3	256.3	227.3	188.6	154.7	140.2	135.4	140.2
67.5°	382.0	338.5	290.1	227.3	203.1	178.9	140.2	116.1	96.7	91.9	96.7
70°	309.5	270.8	222.4	178.9	154.7	135.4	106.4	82.2	67.7	62.9	67.7
72.5°	232.1	203.1	169.3	130.6	116.1	101.6	77.4	58.0	48.4	43.5	48.4
75°	169.3	145.1	120.9	91.9	82.2	72.5	53.2	38.7	33.9	29.0	33.9
77.5°	116.1	101.6	82.2	62.9	53.2	48.4	33.9	29.0	24.2	19.3	19.3
80°	77.4	67.7	53.2	43.5	38.7	33.9	24.2	19.3	14.5	14.5	14.5
82.5°	48.4	38.7	33.9	24.2	19.3	19.3	14.5	9.7	9.7	9.7	9.7
85°	29.0	24.2	19.3	14.5	9.7	9.7	4.8	4.8	4.8	4.8	4.8
87.5°	14.5	9.7	9.7	4.8	4.8	4.8	4.8	4.8	0.0	0.0	4.8
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: P252741

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9
2.5°	3418.9	3409.3	3409.3	3414.1	3418.9	3423.8	3414.1	3409.3	3409.3	3423.8	3414.1
5°	3418.9	3414.1	3414.1	3414.1	3423.8	3428.6	3418.9	3414.1	3418.9	3433.4	3428.6
7.5°	3433.4	3423.8	3428.6	3428.6	3433.4	3443.1	3433.4	3428.6	3433.4	3447.9	3438.3
10°	3443.1	3433.4	3438.3	3433.4	3447.9	3452.8	3443.1	3438.3	3443.1	3462.5	3457.6
12.5°	3447.9	3443.1	3443.1	3438.3	3452.8	3457.6	3447.9	3443.1	3447.9	3462.5	3457.6
15°	3438.3	3433.4	3433.4	3433.4	3443.1	3452.8	3438.3	3433.4	3433.4	3447.9	3443.1
17.5°	3418.9	3409.3	3409.3	3409.3	3414.1	3418.9	3404.4	3399.6	3394.8	3409.3	3404.4
20°	3385.1	3375.4	3365.7	3365.7	3370.6	3370.6	3360.9	3346.4	3346.4	3351.2	3341.6
22.5°	3322.2	3317.4	3307.7	3302.9	3312.5	3307.7	3288.4	3273.9	3269.0	3273.9	3264.2
25°	3235.2	3225.5	3220.7	3215.8	3220.7	3215.8	3196.5	3177.1	3177.1	3177.1	3162.6
27.5°	3114.3	3104.6	3099.8	3099.8	3104.6	3094.9	3075.6	3056.2	3046.6	3046.6	3032.1
30°	2959.5	2959.5	2954.7	2949.9	2945.0	2945.0	2916.0	2896.7	2887.0	2891.8	2882.2
32.5°	2770.9	2766.1	2761.3	2746.8	2751.6	2746.8	2722.6	2708.1	2693.6	2683.9	2679.0
35°	2529.1	2529.1	2524.3	2524.3	2524.3	2519.5	2495.3	2480.8	2471.1	2466.3	2451.8
37.5°	2263.2	2258.3	2253.5	2253.5	2253.5	2253.5	2239.0	2224.5	2224.5	2219.6	2210.0
40°	1963.3	1968.2	1973.0	1968.2	1982.7	1997.2	1977.9	1968.2	1963.3	1977.9	1958.5
42.5°	1673.2	1668.4	1692.5	1697.4	1697.4	1721.6	1726.4	1731.2	1726.4	1736.1	1736.1
45°	1392.7	1387.9	1412.1	1421.7	1445.9	1474.9	1489.4	1513.6	1523.3	1533.0	1523.3
47.5°	1126.7	1146.1	1165.4	1189.6	1209.0	1257.3	1286.3	1310.5	1320.2	1334.7	1334.7
50°	904.3	923.6	957.5	976.8	1001.0	1059.0	1107.4	1141.3	1160.6	1175.1	1170.3
52.5°	696.4	730.2	773.7	793.1	826.9	894.6	947.8	986.5	1010.7	1025.2	1030.0
55°	536.8	565.8	609.3	638.3	672.2	744.7	812.4	855.9	880.1	899.5	909.1
57.5°	396.5	430.4	478.7	502.9	541.6	623.8	681.9	735.0	764.1	788.2	793.1
60°	290.1	324.0	367.5	396.5	435.2	517.4	585.1	633.5	667.3	686.7	696.4
62.5°	207.9	241.8	285.3	314.3	348.2	420.7	488.4	536.8	570.6	594.8	609.3
65°	149.9	183.8	227.3	251.5	280.5	348.2	411.0	459.4	493.3	522.3	531.9
67.5°	111.2	135.4	174.1	198.3	227.3	280.5	333.7	377.2	411.0	435.2	444.9
70°	82.2	101.6	135.4	149.9	169.3	217.6	261.1	299.8	328.8	348.2	357.9
72.5°	58.0	72.5	96.7	111.2	125.7	164.4	198.3	227.3	246.6	266.0	275.6
75°	38.7	48.4	67.7	77.4	87.0	116.1	140.2	164.4	178.9	193.4	198.3
77.5°	24.2	33.9	48.4	53.2	62.9	77.4	96.7	111.2	120.9	130.6	140.2
80°	14.5	19.3	29.0	33.9	38.7	53.2	62.9	72.5	82.2	91.9	96.7
82.5°	9.7	14.5	19.3	19.3	24.2	29.0	38.7	48.4	53.2	58.0	62.9
85°	4.8	4.8	9.7	9.7	14.5	14.5	19.3	24.2	29.0	33.9	38.7
87.5°	4.8	4.8	4.8	4.8	9.7	9.7	14.5	14.5	14.5	19.3	19.3
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: P252741

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9	3418.9
2.5°	3404.4	3418.9	3404.4	3414.1	3409.3	3409.3	3404.4	3409.3
5°	3418.9	3438.3	3418.9	3433.4	3423.8	3423.8	3423.8	3428.6
7.5°	3433.4	3452.8	3438.3	3452.8	3447.9	3443.1	3443.1	3452.8
10°	3447.9	3462.5	3452.8	3467.3	3462.5	3457.6	3457.6	3467.3
12.5°	3447.9	3467.3	3457.6	3472.1	3467.3	3462.5	3462.5	3467.3
15°	3433.4	3457.6	3443.1	3457.6	3452.8	3447.9	3447.9	3457.6
17.5°	3389.9	3409.3	3399.6	3409.3	3409.3	3404.4	3409.3	3414.1
20°	3331.9	3346.4	3336.7	3346.4	3346.4	3336.7	3341.6	3346.4
22.5°	3249.7	3264.2	3254.5	3264.2	3259.3	3254.5	3254.5	3249.7
25°	3148.1	3167.5	3153.0	3162.6	3153.0	3143.3	3143.3	3148.1
27.5°	3022.4	3036.9	3017.6	3027.2	3017.6	3007.9	3007.9	3003.1
30°	2858.0	2862.8	2848.3	2858.0	2848.3	2843.5	2833.8	2833.8
32.5°	2659.7	2664.5	2650.0	2650.0	2640.4	2640.4	2621.0	2635.5
35°	2427.6	2432.4	2427.6	2422.8	2408.2	2403.4	2398.6	2398.6
37.5°	2185.8	2185.8	2171.3	2166.5	2156.8	2147.1	2151.9	2137.4
40°	1939.2	1934.3	1919.8	1924.7	1919.8	1905.3	1900.5	1895.6
42.5°	1707.0	1707.0	1692.5	1697.4	1687.7	1682.9	1668.4	1673.2
45°	1503.9	1503.9	1489.4	1489.4	1484.6	1470.1	1474.9	1465.3
47.5°	1320.2	1320.2	1315.3	1315.3	1300.8	1296.0	1296.0	1296.0
50°	1160.6	1160.6	1160.6	1160.6	1155.8	1150.9	1146.1	1150.9
52.5°	1025.2	1034.9	1030.0	1030.0	1025.2	1020.4	1015.5	1015.5
55°	904.3	909.1	909.1	914.0	909.1	904.3	909.1	904.3
57.5°	797.9	807.6	807.6	807.6	807.6	807.6	802.7	797.9
60°	706.0	710.9	710.9	715.7	715.7	715.7	710.9	710.9
62.5°	614.2	623.8	628.7	628.7	633.5	628.7	628.7	628.7
65°	541.6	551.3	556.1	551.3	556.1	556.1	551.3	551.3
67.5°	454.6	464.2	464.2	464.2	464.2	469.1	464.2	464.2
70°	367.5	377.2	372.4	377.2	377.2	377.2	377.2	377.2
72.5°	280.5	285.3	290.1	290.1	295.0	290.1	290.1	290.1
75°	203.1	212.8	212.8	212.8	212.8	217.6	217.6	217.6
77.5°	145.1	149.9	149.9	154.7	154.7	154.7	154.7	159.6
80°	101.6	101.6	106.4	106.4	111.2	111.2	111.2	111.2
82.5°	67.7	72.5	72.5	72.5	72.5	72.5	72.5	72.5
85°	38.7	43.5	43.5	43.5	43.5	48.4	48.4	48.4
87.5°	24.2	24.2	24.2	24.2	24.2	24.2	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)