

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: P252730

Luminaire Tested: **LD6B60D010TE EU6B60708050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252730
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: LD6B60D010TE EU6B60708050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5772.0 lumens
Efficiency: N/A
Efficacy: 92.4 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

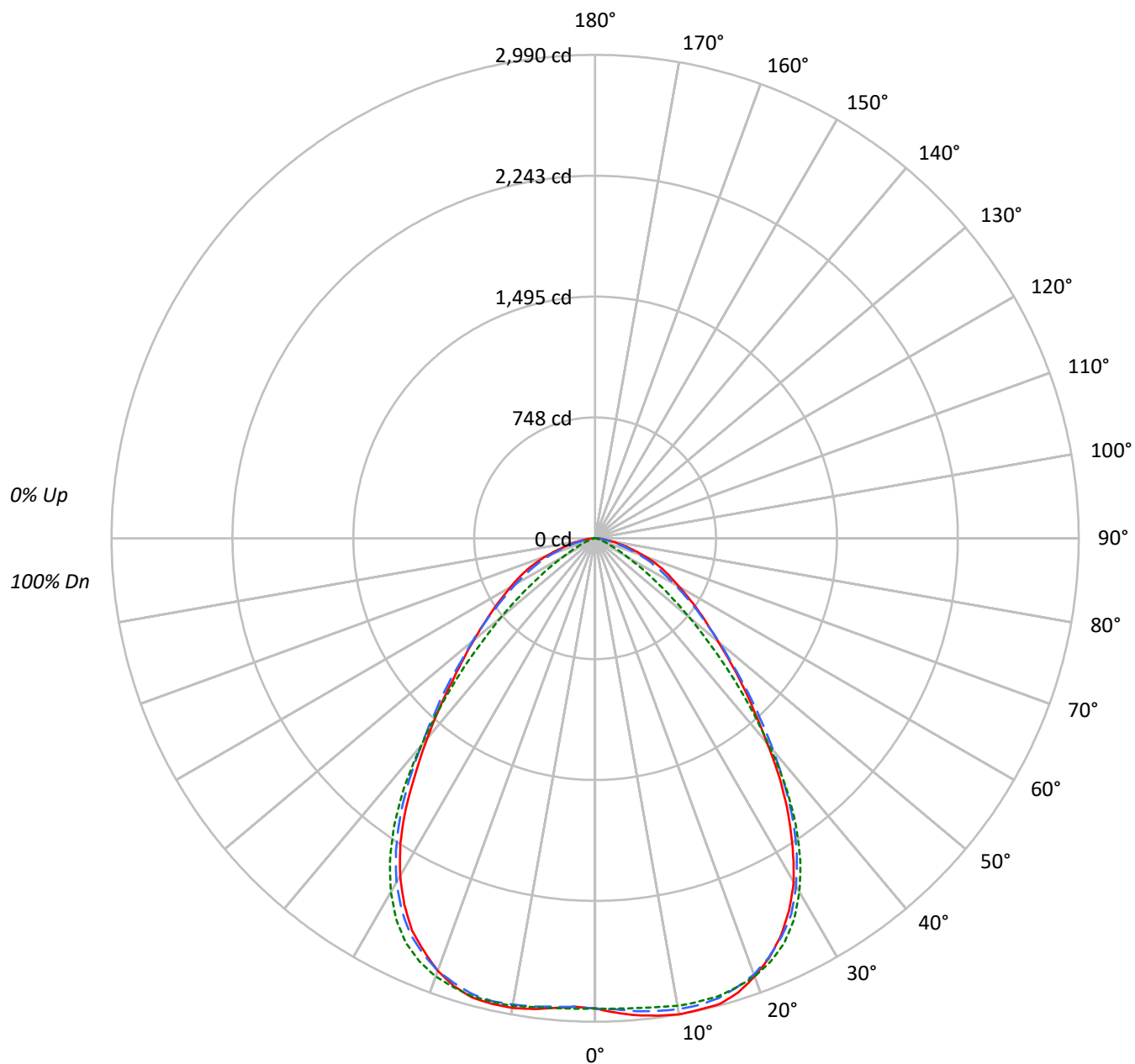
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252730

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBDW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252730

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBDW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				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°	189726	189726	189726
5°	193948	190988	190988
10°	198099	194554	195376
15°	201417	198081	198641
20°	200188	200188	197619
25°	195418	198974	192754
30°	184989	190254	181584
35°	165763	172318	162490
40°	140821	142576	137321
45°	119168	108918	114989
50°	100613	76812	99355
55°	88424	49592	87492
60°	78354	29515	78889
65°	72385	17784	72385
70°	62776	10205	61193
75°	49759	6226	46658
80°	37082	4621	35542
85°	33835	3069	30765



TEST NUMBER: P252730

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.0	4.9
10°-20°	828.6	14.4
20°-30°	1246.2	21.6
30°-40°	1310.3	22.7
40°-50°	978.8	17.0
50°-60°	609.4	10.6
60°-70°	346.6	6.0
70°-80°	142.7	2.5
80°-90°	29.5	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°	2354.8	40.8
0°-40°	3665.1	63.5
0°-60°	5253.2	91.0
0°-90°	5772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5772.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2908	2908	2908	2908	2908	
5°	2962	2937	2916	2908	2916	283
15°	2982	2945	2933	2920	2941	838
25°	2715	2723	2764	2702	2678	1243
35°	2081	2135	2164	2102	2040	1292
45°	1292	1320	1180	1296	1246	1001
55°	777	761	436	749	769	699
65°	469	420	115	420	469	462
75°	197	156	25	152	185	214
85°	45	29	4	25	41	50
90°	0	0	0	0	0	



TEST NUMBER: P252730

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1
2.5°	2936.8	2932.7	2936.8	2928.6	2924.5	2924.5	2928.6	2920.4	2916.3	2920.4	2916.3
5°	2961.5	2953.3	2957.4	2953.3	2945.1	2945.1	2949.2	2936.8	2936.8	2941.0	2936.8
7.5°	2978.0	2978.0	2978.0	2969.8	2965.6	2961.5	2969.8	2957.4	2953.3	2953.3	2949.2
10°	2990.3	2986.2	2990.3	2982.1	2973.9	2969.8	2978.0	2969.8	2961.5	2969.8	2957.4
12.5°	2986.2	2986.2	2986.2	2982.1	2973.9	2969.8	2978.0	2965.6	2961.5	2965.6	2957.4
15°	2982.1	2969.8	2973.9	2969.8	2957.4	2957.4	2961.5	2949.2	2941.0	2953.3	2945.1
17.5°	2945.1	2936.8	2941.0	2932.7	2924.5	2920.4	2924.5	2920.4	2912.2	2920.4	2912.2
20°	2883.4	2883.4	2887.5	2879.3	2871.0	2866.9	2875.2	2866.9	2858.7	2871.0	2871.0
22.5°	2809.3	2809.3	2809.3	2805.2	2801.1	2801.1	2801.1	2797.0	2792.9	2801.1	2805.2
25°	2714.7	2710.6	2714.7	2718.8	2714.7	2710.6	2714.7	2714.7	2706.5	2723.0	2723.0
27.5°	2595.5	2595.5	2603.7	2599.6	2599.6	2595.5	2603.7	2603.7	2599.6	2611.9	2624.2
30°	2455.6	2447.4	2455.6	2455.6	2459.7	2459.7	2463.8	2463.8	2463.8	2476.2	2484.4
32.5°	2274.6	2278.7	2291.1	2287.0	2282.8	2295.2	2295.2	2303.4	2307.5	2315.8	2319.9
35°	2081.3	2085.4	2085.4	2089.5	2097.7	2089.5	2110.1	2106.0	2110.1	2126.5	2134.8
37.5°	1875.6	1863.3	1883.9	1875.6	1879.7	1879.7	1888.0	1892.1	1904.4	1925.0	1925.0
40°	1653.5	1657.6	1665.9	1670.0	1674.1	1674.1	1674.1	1686.4	1690.5	1715.2	1711.1
42.5°	1460.2	1460.2	1468.4	1472.5	1472.5	1472.5	1472.5	1484.9	1493.1	1501.3	1509.6
45°	1291.6	1279.2	1287.4	1287.4	1295.7	1291.6	1299.8	1308.0	1312.1	1324.5	1320.3
47.5°	1131.1	1127.0	1131.1	1135.3	1131.1	1135.3	1139.4	1143.5	1147.6	1147.6	1147.6
50°	991.3	991.3	995.4	999.5	999.5	999.5	999.5	1003.6	1003.6	1011.9	1003.6
52.5°	876.1	880.2	880.2	876.1	880.2	880.2	884.3	884.3	880.2	880.2	867.9
55°	777.4	773.3	777.4	773.3	777.4	777.4	773.3	773.3	769.2	765.1	760.9
57.5°	682.8	682.8	682.8	682.8	678.7	682.8	678.7	674.6	674.6	666.3	654.0
60°	600.5	600.5	600.5	600.5	600.5	596.4	600.5	596.4	588.2	580.0	563.5
62.5°	530.6	526.5	530.6	526.5	526.5	522.4	522.4	518.3	510.0	501.8	485.4
65°	468.9	473.0	468.9	468.9	464.8	460.7	460.7	456.6	444.2	436.0	419.5
67.5°	403.1	399.0	399.0	399.0	394.9	394.9	394.9	386.6	378.4	366.1	349.6
70°	329.1	329.1	329.1	324.9	324.9	320.8	320.8	316.7	308.5	300.3	279.7
72.5°	259.1	259.1	259.1	250.9	255.0	250.9	250.9	242.7	238.6	226.2	213.9
75°	197.4	197.4	193.3	193.3	189.2	185.1	185.1	181.0	176.9	168.6	156.3
77.5°	144.0	144.0	144.0	139.8	135.7	131.6	131.6	127.5	123.4	119.3	111.1
80°	98.7	98.7	98.7	98.7	94.6	90.5	90.5	86.4	86.4	82.3	74.0
82.5°	65.8	65.8	65.8	65.8	61.7	61.7	61.7	57.6	53.5	53.5	45.2
85°	45.2	45.2	41.1	41.1	41.1	41.1	37.0	37.0	32.9	28.8	28.8
87.5°	24.7	24.7	24.7	24.7	20.6	20.6	20.6	20.6	16.5	16.5	12.3
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: P252730

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1
2.5°	2928.6	2928.6	2924.5	2912.2	2916.3	2912.2	2916.3	2912.2	2899.8	2912.2	2899.8
5°	2945.1	2949.2	2941.0	2924.5	2928.6	2924.5	2924.5	2920.4	2908.1	2916.3	2908.1
7.5°	2961.5	2957.4	2953.3	2936.8	2941.0	2936.8	2936.8	2928.6	2916.3	2924.5	2912.2
10°	2969.8	2969.8	2961.5	2945.1	2945.1	2941.0	2945.1	2941.0	2924.5	2936.8	2928.6
12.5°	2969.8	2965.6	2965.6	2945.1	2949.2	2945.1	2949.2	2941.0	2928.6	2936.8	2932.7
15°	2957.4	2957.4	2953.3	2932.7	2936.8	2936.8	2941.0	2932.7	2920.4	2932.7	2924.5
17.5°	2932.7	2932.7	2928.6	2912.2	2920.4	2920.4	2924.5	2916.3	2903.9	2912.2	2912.2
20°	2883.4	2887.5	2887.5	2875.2	2883.4	2883.4	2887.5	2883.4	2879.3	2883.4	2875.2
22.5°	2825.8	2834.0	2834.0	2821.7	2829.9	2829.9	2842.2	2838.1	2829.9	2834.0	2829.9
25°	2739.4	2747.6	2755.9	2747.6	2755.9	2755.9	2768.2	2764.1	2755.9	2764.1	2751.8
27.5°	2640.7	2644.8	2653.0	2644.8	2657.1	2653.0	2665.4	2661.3	2648.9	2661.3	2657.1
30°	2500.8	2517.3	2529.6	2517.3	2529.6	2529.6	2537.9	2533.8	2529.6	2525.5	2525.5
32.5°	2344.5	2361.0	2361.0	2356.9	2365.1	2365.1	2369.2	2361.0	2356.9	2361.0	2365.1
35°	2151.2	2159.4	2167.7	2163.6	2167.7	2171.8	2167.7	2171.8	2159.4	2163.6	2163.6
37.5°	1941.4	1949.7	1949.7	1937.3	1945.6	1945.6	1937.3	1937.3	1929.1	1937.3	1920.9
40°	1719.3	1711.1	1715.2	1707.0	1698.8	1698.8	1694.7	1678.2	1670.0	1674.1	1678.2
42.5°	1501.3	1501.3	1489.0	1468.4	1447.9	1447.9	1435.5	1427.3	1410.8	1419.1	1415.0
45°	1316.2	1295.7	1279.2	1246.3	1234.0	1225.7	1205.2	1184.6	1176.4	1180.5	1176.4
47.5°	1139.4	1122.9	1081.8	1036.5	1024.2	1011.9	987.2	962.5	954.3	946.0	946.0
50°	991.3	962.5	917.3	867.9	847.3	826.8	793.9	769.2	752.7	756.8	756.8
52.5°	855.6	822.6	769.2	707.5	682.8	658.1	629.3	600.5	588.2	584.1	584.1
55°	736.3	699.2	645.8	575.9	555.3	526.5	489.5	456.6	440.1	436.0	444.2
57.5°	629.3	596.4	534.7	464.8	440.1	411.3	374.3	345.5	324.9	320.8	324.9
60°	542.9	497.7	444.2	378.4	345.5	320.8	279.7	255.0	234.5	226.2	230.3
62.5°	456.6	415.4	362.0	296.2	271.5	246.8	209.8	181.0	164.5	160.4	164.5
65°	390.8	349.6	300.3	242.7	218.0	193.3	160.4	131.6	119.3	115.2	119.3
67.5°	324.9	287.9	246.8	193.3	172.8	152.2	119.3	98.7	82.3	78.2	82.3
70°	263.2	230.3	189.2	152.2	131.6	115.2	90.5	69.9	57.6	53.5	57.6
72.5°	197.4	172.8	144.0	111.1	98.7	86.4	65.8	49.4	41.1	37.0	41.1
75°	144.0	123.4	102.8	78.2	69.9	61.7	45.2	32.9	28.8	24.7	28.8
77.5°	98.7	86.4	69.9	53.5	45.2	41.1	28.8	24.7	20.6	16.5	16.5
80°	65.8	57.6	45.2	37.0	32.9	28.8	20.6	16.5	12.3	12.3	12.3
82.5°	41.1	32.9	28.8	20.6	16.5	16.5	12.3	8.2	8.2	8.2	8.2
85°	24.7	20.6	16.5	12.3	8.2	8.2	4.1	4.1	4.1	4.1	4.1
87.5°	12.3	8.2	8.2	4.1	4.1	4.1	4.1	4.1	0.0	0.0	4.1
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: P252730

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1
2.5°	2908.1	2899.8	2899.8	2903.9	2908.1	2912.2	2903.9	2899.8	2899.8	2912.2	2903.9
5°	2908.1	2903.9	2903.9	2903.9	2912.2	2916.3	2908.1	2903.9	2908.1	2920.4	2916.3
7.5°	2920.4	2912.2	2916.3	2916.3	2920.4	2928.6	2920.4	2916.3	2920.4	2932.7	2924.5
10°	2928.6	2920.4	2924.5	2920.4	2932.7	2936.8	2928.6	2924.5	2928.6	2945.1	2941.0
12.5°	2932.7	2928.6	2928.6	2924.5	2936.8	2941.0	2932.7	2928.6	2932.7	2945.1	2941.0
15°	2924.5	2920.4	2920.4	2920.4	2928.6	2936.8	2924.5	2920.4	2920.4	2932.7	2928.6
17.5°	2908.1	2899.8	2899.8	2899.8	2903.9	2908.1	2895.7	2891.6	2887.5	2899.8	2895.7
20°	2879.3	2871.0	2862.8	2862.8	2866.9	2866.9	2858.7	2846.4	2846.4	2850.5	2842.2
22.5°	2825.8	2821.7	2813.5	2809.3	2817.6	2813.5	2797.0	2784.7	2780.5	2784.7	2776.4
25°	2751.8	2743.5	2739.4	2735.3	2739.4	2735.3	2718.8	2702.4	2702.4	2702.4	2690.1
27.5°	2648.9	2640.7	2636.6	2636.6	2640.7	2632.5	2616.0	2599.6	2591.3	2591.3	2579.0
30°	2517.3	2517.3	2513.2	2509.1	2505.0	2505.0	2480.3	2463.8	2455.6	2459.7	2451.5
32.5°	2356.9	2352.8	2348.7	2336.3	2340.4	2336.3	2315.8	2303.4	2291.1	2282.8	2278.7
35°	2151.2	2151.2	2147.1	2147.1	2147.1	2143.0	2122.4	2110.1	2101.9	2097.7	2085.4
37.5°	1925.0	1920.9	1916.8	1916.8	1916.8	1916.8	1904.4	1892.1	1892.1	1888.0	1879.7
40°	1670.0	1674.1	1678.2	1674.1	1686.4	1698.8	1682.3	1674.1	1670.0	1682.3	1665.9
42.5°	1423.2	1419.1	1439.6	1443.7	1443.7	1464.3	1468.4	1472.5	1468.4	1476.7	1476.7
45°	1184.6	1180.5	1201.1	1209.3	1229.9	1254.5	1266.9	1287.4	1295.7	1303.9	1295.7
47.5°	958.4	974.8	991.3	1011.9	1028.3	1069.4	1094.1	1114.7	1122.9	1135.3	1135.3
50°	769.2	785.6	814.4	830.9	851.4	900.8	941.9	970.7	987.2	999.5	995.4
52.5°	592.3	621.1	658.1	674.6	703.4	760.9	806.2	839.1	859.7	872.0	876.1
55°	456.6	481.2	518.3	542.9	571.7	633.4	691.0	728.0	748.6	765.1	773.3
57.5°	337.3	366.1	407.2	427.8	460.7	530.6	580.0	625.2	649.9	670.5	674.6
60°	246.8	275.6	312.6	337.3	370.2	440.1	497.7	538.8	567.6	584.1	592.3
62.5°	176.9	205.7	242.7	267.4	296.2	357.9	415.4	456.6	485.4	505.9	518.3
65°	127.5	156.3	193.3	213.9	238.6	296.2	349.6	390.8	419.5	444.2	452.5
67.5°	94.6	115.2	148.1	168.6	193.3	238.6	283.8	320.8	349.6	370.2	378.4
70°	69.9	86.4	115.2	127.5	144.0	185.1	222.1	255.0	279.7	296.2	304.4
72.5°	49.4	61.7	82.3	94.6	106.9	139.8	168.6	193.3	209.8	226.2	234.5
75°	32.9	41.1	57.6	65.8	74.0	98.7	119.3	139.8	152.2	164.5	168.6
77.5°	20.6	28.8	41.1	45.2	53.5	65.8	82.3	94.6	102.8	111.1	119.3
80°	12.3	16.5	24.7	28.8	32.9	45.2	53.5	61.7	69.9	78.2	82.3
82.5°	8.2	12.3	16.5	16.5	20.6	24.7	32.9	41.1	45.2	49.4	53.5
85°	4.1	4.1	8.2	8.2	12.3	12.3	16.5	20.6	24.7	28.8	32.9
87.5°	4.1	4.1	4.1	4.1	8.2	8.2	12.3	12.3	12.3	16.5	16.5
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: P252730

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1
2.5°	2895.7	2908.1	2895.7	2903.9	2899.8	2899.8	2895.7	2899.8
5°	2908.1	2924.5	2908.1	2920.4	2912.2	2912.2	2912.2	2916.3
7.5°	2920.4	2936.8	2924.5	2936.8	2932.7	2928.6	2928.6	2936.8
10°	2932.7	2945.1	2936.8	2949.2	2945.1	2941.0	2941.0	2949.2
12.5°	2932.7	2949.2	2941.0	2953.3	2949.2	2945.1	2945.1	2949.2
15°	2920.4	2941.0	2928.6	2941.0	2936.8	2932.7	2932.7	2941.0
17.5°	2883.4	2899.8	2891.6	2899.8	2899.8	2895.7	2899.8	2903.9
20°	2834.0	2846.4	2838.1	2846.4	2846.4	2838.1	2842.2	2846.4
22.5°	2764.1	2776.4	2768.2	2776.4	2772.3	2768.2	2768.2	2764.1
25°	2677.7	2694.2	2681.8	2690.1	2681.8	2673.6	2673.6	2677.7
27.5°	2570.8	2583.1	2566.7	2574.9	2566.7	2558.4	2558.4	2554.3
30°	2430.9	2435.0	2422.7	2430.9	2422.7	2418.6	2410.4	2410.4
32.5°	2262.3	2266.4	2254.1	2254.1	2245.8	2245.8	2229.4	2241.7
35°	2064.8	2069.0	2064.8	2060.7	2048.4	2044.3	2040.2	2040.2
37.5°	1859.2	1859.2	1846.8	1842.7	1834.5	1826.3	1830.4	1818.0
40°	1649.4	1645.3	1633.0	1637.1	1633.0	1620.6	1616.5	1612.4
42.5°	1452.0	1452.0	1439.6	1443.7	1435.5	1431.4	1419.1	1423.2
45°	1279.2	1279.2	1266.9	1266.9	1262.8	1250.4	1254.5	1246.3
47.5°	1122.9	1122.9	1118.8	1118.8	1106.5	1102.3	1102.3	1102.3
50°	987.2	987.2	987.2	987.2	983.1	978.9	974.8	978.9
52.5°	872.0	880.2	876.1	876.1	872.0	867.9	863.8	863.8
55°	769.2	773.3	773.3	777.4	773.3	769.2	773.3	769.2
57.5°	678.7	686.9	686.9	686.9	686.9	686.9	682.8	678.7
60°	600.5	604.6	604.6	608.8	608.8	608.8	604.6	604.6
62.5°	522.4	530.6	534.7	534.7	538.8	534.7	534.7	534.7
65°	460.7	468.9	473.0	468.9	473.0	473.0	468.9	468.9
67.5°	386.6	394.9	394.9	394.9	394.9	399.0	394.9	394.9
70°	312.6	320.8	316.7	320.8	320.8	320.8	320.8	320.8
72.5°	238.6	242.7	246.8	246.8	250.9	246.8	246.8	246.8
75°	172.8	181.0	181.0	181.0	181.0	185.1	185.1	185.1
77.5°	123.4	127.5	127.5	131.6	131.6	131.6	131.6	135.7
80°	86.4	86.4	90.5	90.5	94.6	94.6	94.6	94.6
82.5°	57.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7
85°	32.9	37.0	37.0	37.0	37.0	41.1	41.1	41.1
87.5°	20.6	20.6	20.6	20.6	20.6	20.6	16.5	16.5
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)