

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: P252610

Luminaire Tested: **LD6B50D010TE EU6B30508030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252610
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: LD6B50D010TE EU6B30508030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 5328.0 lumens
Efficiency: N/A
Efficacy: 90.7 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

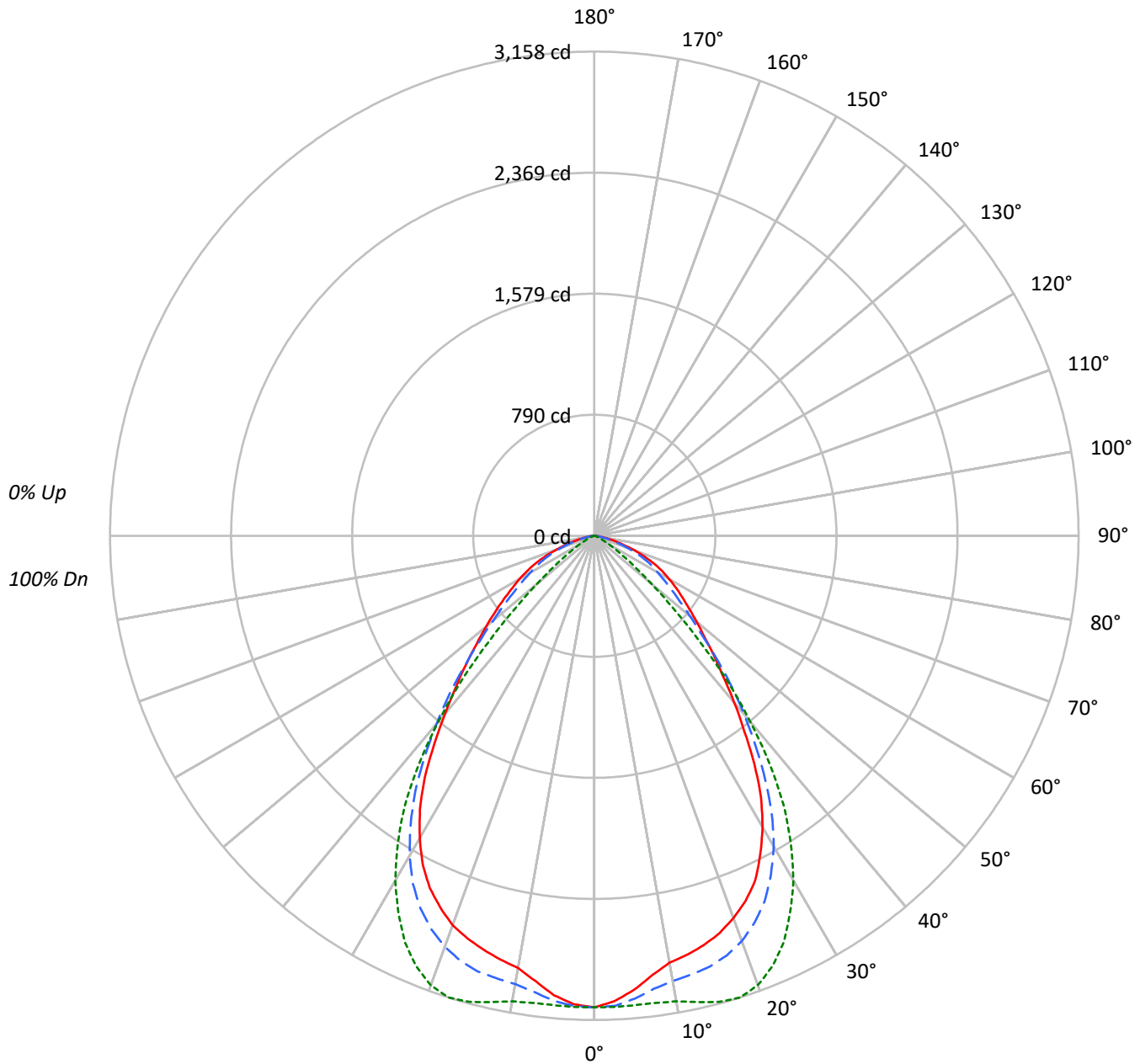
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252610

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252610

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1LI

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	105	102		109	106	103	100		102	99	97		98	96	94		94	93	91
2	104	97	92	87		101	95	91	86		92	88	84		89	86	83		86	83	81
3	96	88	81	76		94	86	80	76		84	79	74		81	77	73		79	75	72
4	90	80	73	67		88	79	72	67		76	70	66		74	69	65		72	68	64
5	84	73	65	60		82	72	65	59		70	64	59		68	63	58		66	62	58
6	78	67	59	54		76	66	59	53		64	58	53		63	57	53		61	56	52
7	73	61	54	49		72	61	53	48		59	53	48		58	52	48		57	51	48
8	69	57	49	44		67	56	49	44		55	48	44		54	48	44		53	47	43
9	64	53	45	40		63	52	45	40		51	45	40		50	44	40		49	44	40
10	61	49	42	37		60	48	42	37		48	41	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	200687	200687	200687
5°	194701	201224	197033
10°	187294	204253	189645
15°	186632	212568	188794
20°	184185	216531	187642
25°	178681	210427	182525
30°	165297	195565	171459
35°	145016	171920	153514
40°	120841	134775	128719
45°	101712	88915	108604
50°	88068	48728	93488
55°	79689	25888	81713
60°	73317	13453	73317
65°	66426	7132	64775
70°	53582	4063	49519
75°	36752	2697	34055
80°	24045	1353	21378
85°	15944	2695	13324



TEST NUMBER: P252610

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.8	5.4
10°-20°	829.4	15.6
20°-30°	1225.5	23.0
30°-40°	1237.8	23.2
40°-50°	853.2	16.0
50°-60°	490.0	9.2
60°-70°	285.2	5.4
70°-80°	104.1	2.0
80°-90°	15.9	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°	2341.8	44.0
0°-40°	3579.6	67.2
0°-60°	4922.8	92.4
0°-90°	5328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5328.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3076	3076	3076	3076	3076	
5°	2973	3030	3073	3044	3009	279
15°	2763	2909	3147	2941	2795	778
25°	2482	2628	2923	2681	2536	1131
35°	1821	1945	2159	2034	1928	1130
45°	1102	1117	964	1188	1177	857
55°	701	615	228	640	718	631
65°	430	363	46	359	420	421
75°	146	117	11	114	135	164
85°	21	11	4	14	18	27
90°	0	0	0	0	0	



TEST NUMBER: P252610

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1
2.5°	3037.0	3040.6	3044.1	3040.6	3044.1	3058.3	3047.7	3054.8	3054.8	3058.3	3069.0
5°	2973.0	2973.0	2980.1	2976.5	2987.2	3001.4	2990.8	3001.4	3005.0	3012.1	3029.9
7.5°	2891.2	2891.2	2894.8	2894.8	2909.0	2923.2	2916.1	2930.3	2944.5	2958.8	2980.1
10°	2827.2	2834.3	2834.3	2837.9	2852.1	2869.9	2866.3	2884.1	2898.3	2919.6	2948.1
12.5°	2798.7	2802.3	2802.3	2809.4	2823.6	2841.4	2837.9	2855.6	2877.0	2901.9	2930.3
15°	2763.2	2770.3	2766.7	2773.8	2788.1	2805.8	2802.3	2820.1	2845.0	2869.9	2909.0
17.5°	2716.9	2720.5	2724.1	2724.1	2738.3	2752.5	2752.5	2770.3	2798.7	2827.2	2869.9
20°	2652.9	2660.0	2660.0	2663.6	2674.3	2695.6	2692.0	2709.8	2738.3	2766.7	2813.0
22.5°	2578.3	2581.8	2581.8	2585.4	2603.1	2613.8	2617.4	2631.6	2656.5	2688.5	2731.2
25°	2482.2	2485.8	2482.2	2492.9	2500.0	2521.4	2514.2	2532.0	2560.5	2585.4	2628.0
27.5°	2343.5	2350.7	2350.7	2354.2	2372.0	2389.8	2389.8	2407.6	2432.4	2450.2	2492.9
30°	2194.2	2204.8	2194.2	2212.0	2219.1	2233.3	2244.0	2254.6	2276.0	2300.9	2340.0
32.5°	2023.5	2019.9	2023.5	2030.6	2051.9	2062.6	2069.7	2080.4	2101.7	2123.1	2155.1
35°	1820.8	1827.9	1831.4	1845.7	1845.7	1863.5	1867.0	1874.1	1906.1	1920.4	1945.2
37.5°	1607.4	1614.5	1618.1	1625.2	1639.4	1646.5	1657.2	1667.9	1689.2	1714.1	1728.3
40°	1418.9	1418.9	1422.5	1429.6	1440.3	1443.8	1454.5	1468.7	1482.9	1504.3	1518.5
42.5°	1241.1	1244.7	1241.1	1248.2	1258.9	1273.1	1269.6	1287.3	1290.9	1305.1	1315.8
45°	1102.4	1102.4	1095.3	1102.4	1102.4	1116.6	1113.1	1120.2	1116.6	1123.8	1116.6
47.5°	970.8	974.4	970.8	974.4	974.4	974.4	978.0	970.8	974.4	963.7	942.4
50°	867.7	871.3	864.2	867.7	864.2	860.6	864.2	853.5	849.9	835.7	814.4
52.5°	778.8	775.3	771.7	771.7	771.7	768.1	764.6	753.9	743.2	729.0	704.1
55°	700.6	697.0	693.5	693.5	686.3	682.8	682.8	672.1	661.5	643.7	615.2
57.5°	629.4	625.9	622.3	622.3	618.8	611.7	611.7	601.0	586.8	565.4	540.5
60°	561.9	561.9	561.9	558.3	558.3	551.2	551.2	540.5	526.3	505.0	476.5
62.5°	501.4	497.9	497.9	497.9	497.9	494.3	490.8	483.6	469.4	448.1	423.2
65°	430.3	430.3	430.3	430.3	426.7	426.7	426.7	416.1	409.0	387.6	362.7
67.5°	352.1	352.1	352.1	352.1	348.5	352.1	352.1	345.0	337.8	316.5	295.2
70°	280.9	277.4	273.8	277.4	273.8	273.8	277.4	270.3	266.7	248.9	227.6
72.5°	206.3	209.8	206.3	206.3	206.3	202.7	206.3	202.7	195.6	181.4	167.1
75°	145.8	149.4	149.4	145.8	145.8	145.8	142.2	142.2	135.1	124.5	117.4
77.5°	99.6	99.6	99.6	99.6	96.0	96.0	96.0	92.5	88.9	81.8	74.7
80°	64.0	64.0	64.0	64.0	60.5	60.5	60.5	56.9	56.9	49.8	42.7
82.5°	39.1	39.1	39.1	39.1	39.1	39.1	35.6	35.6	32.0	28.4	24.9
85°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	17.8	17.8	14.2	10.7
87.5°	7.1	7.1	10.7	10.7	10.7	10.7	10.7	10.7	7.1	7.1	7.1
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: P252610

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1
2.5°	3061.9	3065.5	3065.5	3065.5	3076.1	3079.7	3069.0	3058.3	3079.7	3076.1	3083.2
5°	3026.3	3037.0	3044.1	3047.7	3058.3	3065.5	3054.8	3051.2	3069.0	3072.6	3076.1
7.5°	2983.7	3001.4	3019.2	3026.3	3040.6	3047.7	3044.1	3044.1	3065.5	3072.6	3072.6
10°	2955.2	2980.1	3001.4	3019.2	3037.0	3047.7	3047.7	3051.2	3076.1	3083.2	3090.3
12.5°	2948.1	2980.1	3008.6	3033.4	3047.7	3065.5	3069.0	3079.7	3104.6	3115.2	3115.2
15°	2930.3	2973.0	3008.6	3040.6	3061.9	3083.2	3090.3	3111.7	3140.1	3147.2	3154.4
17.5°	2898.3	2941.0	2983.7	3022.8	3051.2	3069.0	3090.3	3111.7	3147.2	3157.9	3161.5
20°	2841.4	2891.2	2933.9	2973.0	3001.4	3026.3	3047.7	3072.6	3104.6	3118.8	3122.4
22.5°	2756.1	2805.8	2848.5	2891.2	2919.6	2941.0	2962.3	2990.8	3022.8	3037.0	3037.0
25°	2652.9	2699.2	2745.4	2777.4	2805.8	2830.7	2841.4	2873.4	2905.4	2923.2	2923.2
27.5°	2521.4	2564.0	2606.7	2642.3	2660.0	2681.4	2699.2	2727.6	2752.5	2766.7	2781.0
30°	2354.2	2396.9	2436.0	2471.6	2492.9	2514.2	2532.0	2553.4	2578.3	2596.0	2599.6
32.5°	2172.8	2208.4	2247.5	2283.1	2304.4	2311.5	2329.3	2350.7	2372.0	2386.2	2389.8
35°	1973.7	1998.6	2023.5	2055.5	2076.8	2076.8	2094.6	2108.8	2126.6	2158.6	2151.5
37.5°	1739.0	1774.5	1792.3	1803.0	1817.2	1831.4	1835.0	1852.8	1874.1	1881.2	1891.9
40°	1518.5	1529.2	1539.8	1539.8	1554.1	1554.1	1554.1	1557.6	1579.0	1582.5	1596.7
42.5°	1298.0	1298.0	1287.3	1276.7	1280.2	1276.7	1258.9	1258.9	1269.6	1283.8	1283.8
45°	1091.8	1066.9	1034.9	1010.0	992.2	985.1	963.7	963.7	960.2	963.7	978.0
47.5°	917.5	874.8	821.5	771.7	753.9	739.7	707.7	693.5	686.3	689.9	697.0
50°	771.7	725.5	665.0	604.6	572.5	554.8	515.7	490.8	487.2	480.1	494.3
52.5°	665.0	608.1	544.1	473.0	441.0	412.5	369.8	348.5	334.3	334.3	337.8
55°	572.5	512.1	441.0	369.8	337.8	316.5	273.8	245.4	231.2	227.6	238.3
57.5°	494.3	437.4	366.3	295.2	263.2	238.3	195.6	170.7	160.0	152.9	156.5
60°	433.9	377.0	305.8	238.3	209.8	181.4	145.8	117.4	103.1	103.1	106.7
62.5°	377.0	323.6	259.6	195.6	170.7	145.8	106.7	81.8	71.1	67.6	71.1
65°	320.1	270.3	216.9	163.6	138.7	117.4	85.3	64.0	49.8	46.2	49.8
67.5°	259.6	220.5	174.3	131.6	110.2	92.5	64.0	46.2	35.6	32.0	35.6
70°	202.7	167.1	131.6	96.0	81.8	67.6	46.2	35.6	24.9	21.3	24.9
72.5°	145.8	120.9	92.5	67.6	56.9	46.2	32.0	24.9	17.8	14.2	17.8
75°	99.6	81.8	60.5	42.7	35.6	32.0	21.3	14.2	10.7	10.7	10.7
77.5°	64.0	49.8	39.1	28.4	21.3	17.8	10.7	7.1	7.1	7.1	7.1
80°	35.6	28.4	21.3	14.2	10.7	10.7	7.1	7.1	3.6	3.6	3.6
82.5°	21.3	14.2	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6	3.6
85°	10.7	7.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	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: P252610

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1
2.5°	3069.0	3072.6	3061.9	3076.1	3065.5	3079.7	3079.7	3065.5	3069.0	3061.9	3076.1
5°	3061.9	3061.9	3054.8	3065.5	3051.2	3065.5	3061.9	3037.0	3044.1	3029.9	3044.1
7.5°	3061.9	3054.8	3044.1	3054.8	3037.0	3047.7	3033.4	3008.6	3001.4	2983.7	2983.7
10°	3072.6	3061.9	3047.7	3051.2	3033.4	3037.0	3015.7	2980.1	2969.4	2948.1	2941.0
12.5°	3097.5	3086.8	3065.5	3072.6	3047.7	3047.7	3019.2	2976.5	2955.2	2926.8	2919.6
15°	3133.0	3115.2	3090.3	3093.9	3069.0	3054.8	3019.2	2969.4	2941.0	2901.9	2891.2
17.5°	3140.1	3122.4	3090.3	3090.3	3058.3	3040.6	2997.9	2941.0	2905.4	2866.3	2845.0
20°	3101.0	3083.2	3047.7	3044.1	3015.7	2990.8	2944.5	2887.6	2852.1	2809.4	2791.6
22.5°	3019.2	2997.9	2965.9	2962.3	2933.9	2919.6	2869.9	2813.0	2777.4	2734.7	2720.5
25°	2898.3	2887.6	2855.6	2852.1	2827.2	2809.4	2766.7	2713.4	2681.4	2638.7	2624.5
27.5°	2756.1	2745.4	2713.4	2713.4	2684.9	2674.3	2635.2	2585.4	2560.5	2521.4	2503.6
30°	2585.4	2571.1	2553.4	2549.8	2524.9	2514.2	2478.7	2432.4	2407.6	2375.5	2368.4
32.5°	2382.7	2372.0	2361.3	2357.8	2332.9	2322.2	2297.3	2251.1	2229.7	2201.3	2190.6
35°	2147.9	2140.8	2130.2	2126.6	2115.9	2105.3	2080.4	2044.8	2034.2	2012.8	2002.1
37.5°	1877.7	1884.8	1877.7	1877.7	1867.0	1870.6	1849.2	1827.9	1817.2	1803.0	1795.9
40°	1586.1	1600.3	1611.0	1611.0	1607.4	1621.6	1618.1	1600.3	1596.7	1589.6	1586.1
42.5°	1290.9	1298.0	1319.4	1333.6	1330.0	1365.6	1369.1	1383.4	1394.0	1386.9	1390.5
45°	981.5	1002.9	1031.3	1045.5	1063.3	1109.5	1134.4	1162.9	1187.8	1202.0	1198.4
47.5°	707.7	732.6	764.6	785.9	817.9	874.8	938.8	974.4	1010.0	1027.7	1045.5
50°	512.1	537.0	576.1	608.1	629.4	707.7	775.3	821.5	860.6	885.5	903.3
52.5°	359.2	387.6	430.3	458.8	490.8	565.4	643.7	697.0	739.7	771.7	789.5
55°	248.9	280.9	320.1	348.5	384.1	462.3	537.0	593.9	640.1	668.6	689.9
57.5°	174.3	202.7	241.8	266.7	302.3	377.0	451.6	508.5	554.8	583.2	608.1
60°	117.4	145.8	184.9	209.8	238.3	312.9	380.5	441.0	483.6	512.1	537.0
62.5°	81.8	106.7	145.8	170.7	195.6	259.6	323.6	377.0	419.6	451.6	473.0
65°	64.0	85.3	117.4	138.7	163.6	216.9	270.3	316.5	359.2	391.2	405.4
67.5°	46.2	67.6	92.5	110.2	128.0	174.3	220.5	256.0	295.2	320.1	337.8
70°	32.0	46.2	67.6	81.8	96.0	131.6	167.1	199.1	227.6	245.4	259.6
72.5°	24.9	32.0	46.2	56.9	67.6	92.5	120.9	145.8	167.1	181.4	195.6
75°	14.2	21.3	32.0	39.1	46.2	64.0	81.8	99.6	113.8	124.5	131.6
77.5°	7.1	10.7	17.8	21.3	28.4	39.1	53.3	64.0	74.7	81.8	88.9
80°	7.1	7.1	10.7	10.7	14.2	21.3	28.4	35.6	42.7	49.8	53.3
82.5°	3.6	3.6	7.1	7.1	7.1	10.7	14.2	21.3	24.9	28.4	32.0
85°	3.6	3.6	3.6	3.6	3.6	7.1	7.1	10.7	14.2	17.8	17.8
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	7.1	7.1	7.1	10.7
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: P252610

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1	3076.1
2.5°	3065.5	3072.6	3069.0	3076.1	3065.5	3061.9	3069.0	3058.3
5°	3026.3	3029.9	3026.3	3026.3	3019.2	3012.1	3019.2	3008.6
7.5°	2965.9	2965.9	2955.2	2955.2	2941.0	2933.9	2933.9	2930.3
10°	2916.1	2905.4	2894.8	2898.3	2877.0	2869.9	2866.3	2862.7
12.5°	2891.2	2884.1	2866.3	2866.3	2845.0	2837.9	2834.3	2830.7
15°	2862.7	2848.5	2834.3	2830.7	2813.0	2805.8	2802.3	2795.2
17.5°	2813.0	2802.3	2784.5	2784.5	2766.7	2763.2	2756.1	2752.5
20°	2759.6	2745.4	2731.2	2731.2	2709.8	2709.8	2699.2	2702.7
22.5°	2684.9	2674.3	2660.0	2660.0	2642.3	2638.7	2628.0	2624.5
25°	2596.0	2581.8	2571.1	2567.6	2553.4	2546.2	2542.7	2535.6
27.5°	2478.7	2468.0	2457.3	2450.2	2432.4	2428.9	2418.2	2421.8
30°	2332.9	2325.8	2322.2	2315.1	2293.8	2286.6	2286.6	2276.0
32.5°	2172.8	2162.2	2155.1	2144.4	2126.6	2123.1	2112.4	2115.9
35°	1977.3	1963.0	1952.4	1955.9	1934.6	1931.0	1923.9	1927.5
37.5°	1774.5	1760.3	1746.1	1742.5	1724.8	1724.8	1714.1	1714.1
40°	1564.7	1550.5	1543.4	1543.4	1522.1	1525.6	1514.9	1511.4
42.5°	1376.3	1362.0	1358.5	1354.9	1344.2	1340.7	1330.0	1333.6
45°	1198.4	1194.9	1194.9	1187.8	1177.1	1173.5	1177.1	1177.1
47.5°	1042.0	1045.5	1042.0	1042.0	1034.9	1042.0	1034.9	1038.4
50°	910.4	917.5	917.5	917.5	913.9	917.5	917.5	921.1
52.5°	800.1	810.8	807.3	810.8	807.3	814.4	810.8	814.4
55°	704.1	711.2	714.8	718.4	718.4	718.4	718.4	718.4
57.5°	615.2	625.9	629.4	633.0	633.0	640.1	633.0	633.0
60°	544.1	554.8	558.3	561.9	561.9	565.4	558.3	561.9
62.5°	480.1	490.8	490.8	494.3	494.3	494.3	487.2	490.8
65°	416.1	419.6	423.2	423.2	419.6	419.6	416.1	419.6
67.5°	345.0	348.5	345.0	345.0	341.4	341.4	334.3	337.8
70°	266.7	266.7	270.3	266.7	263.2	266.7	263.2	259.6
72.5°	199.1	199.1	199.1	195.6	195.6	192.0	195.6	195.6
75°	135.1	135.1	138.7	138.7	138.7	138.7	135.1	135.1
77.5°	88.9	88.9	88.9	88.9	92.5	88.9	88.9	88.9
80°	56.9	56.9	60.5	60.5	56.9	56.9	56.9	56.9
82.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
85°	21.3	21.3	21.3	21.3	17.8	17.8	17.8	17.8
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	7.1	7.1
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)