

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: P212843

Luminaire Tested: **LD6B50D010TE EU6B30509035 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30509035 6LBSWL11
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4424.3 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

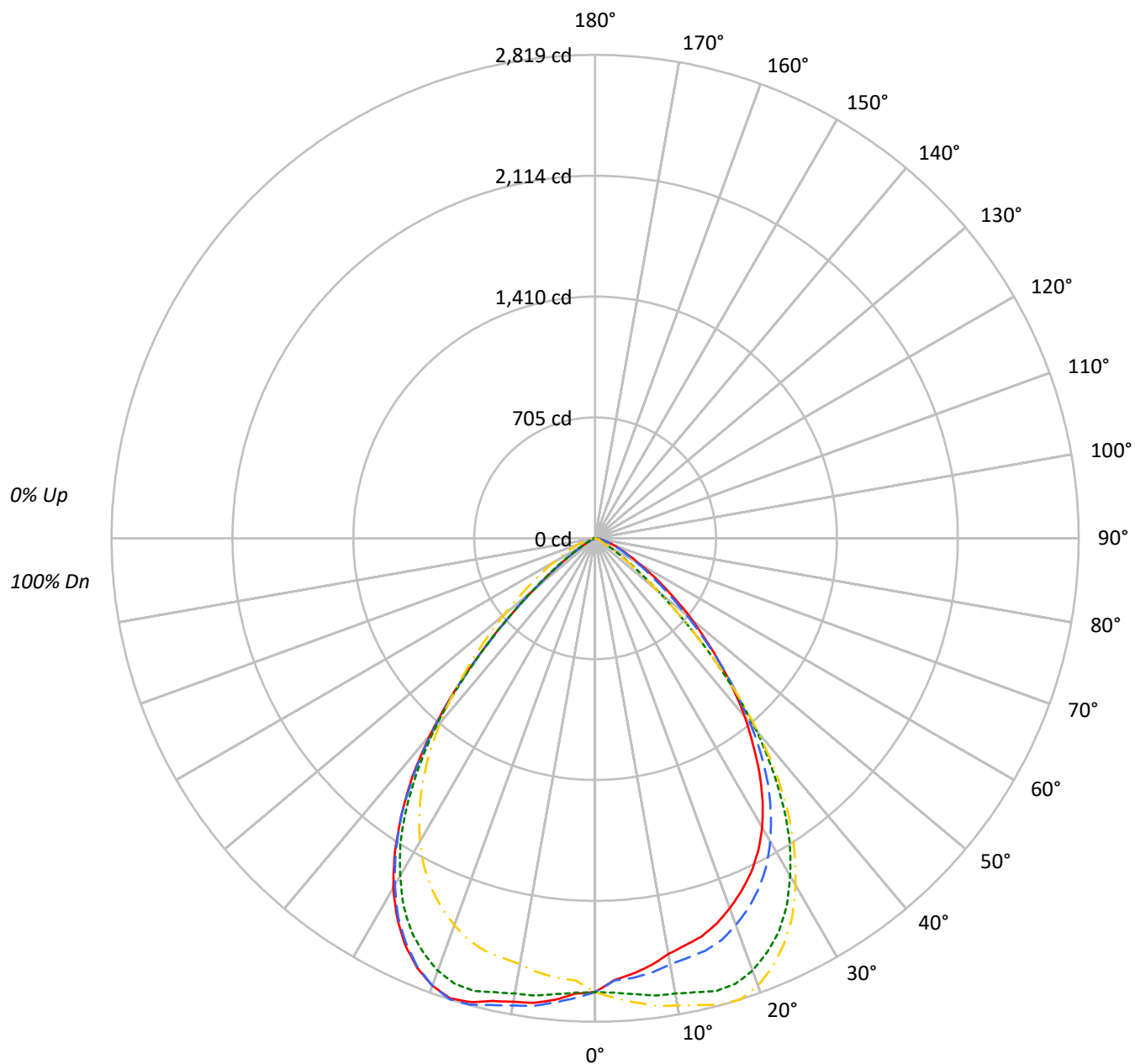
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	100	98		99	97	96		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	91	84	80	96	89	84	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	75	70	79	74	70		77	73	69		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	55	48	44	66	55	48	44	54	48	43		53	47	43		52
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	145065	145065	145065	145065
5°	140193	146808	148673	146808
10°	137016	150047	152792	150047
15°	136369	155080	158923	155080
20°	133887	156534	161924	156534
25°	130060	153166	158386	153166
30°	123240	143915	148985	143915
35°	111741	128231	131738	128231
40°	96996	104496	107144	104496
45°	79528	72124	72604	72124
50°	62531	40459	39675	40459
55°	46221	20023	17959	20023
60°	32761	8782	6414	8782
65°	24374	5591	3995	5591
70°	17775	4440	2965	4440
75°	13047	3262	1949	3262
80°	8745	2904	979	2904
85°	5787	1950	1950	1950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	5.7
10°-20°	750.3	17.0
20°-30°	1119.7	25.3
30°-40°	1150.4	26.0
40°-50°	744.9	16.8
50°-60°	277.0	6.3
60°-70°	90.9	2.1
70°-80°	32.1	0.7
80°-90°	5.8	0.1
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°	2123.3	48.0
0°-40°	3273.6	74.0
0°-60°	4295.5	97.1
0°-90°	4424.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2646	2646	2646	2646	2646	
5°	2548	2668	2702	2668	2548	241
15°	2403	2732	2800	2732	2403	676
25°	2150	2532	2618	2532	2150	985
35°	1670	1916	1968	1916	1670	1037
45°	1026	930	936	930	1026	793
55°	484	210	188	210	484	441
65°	188	43	31	43	188	191
75°	62	15	9	15	62	68
85°	9	3	3	3	9	12
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°	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2
2.5°	2578.4	2615.4	2590.8	2606.2	2581.5	2581.5	2630.8	2603.1	2624.6	2603.1	2581.5
5°	2547.6	2593.8	2563.0	2578.4	2556.9	2560.0	2606.2	2584.6	2606.2	2590.8	2572.3
7.5°	2510.7	2556.9	2529.1	2544.5	2523.0	2529.1	2578.4	2556.9	2581.5	2566.1	2553.8
10°	2461.4	2510.7	2486.0	2501.4	2482.9	2486.0	2535.3	2519.9	2541.5	2532.2	2523.0
12.5°	2430.6	2476.8	2449.1	2464.5	2452.1	2458.3	2504.5	2492.2	2519.9	2510.7	2504.5
15°	2402.8	2446.0	2421.3	2436.7	2427.5	2430.6	2479.9	2467.5	2498.3	2492.2	2489.1
17.5°	2356.6	2402.8	2375.1	2393.6	2384.4	2387.4	2436.7	2427.5	2458.3	2458.3	2455.2
20°	2295.0	2341.2	2319.7	2332.0	2325.8	2332.0	2375.1	2369.0	2399.8	2399.8	2399.8
22.5°	2227.2	2273.5	2248.8	2261.1	2255.0	2264.2	2304.3	2304.3	2328.9	2332.0	2335.1
25°	2150.2	2196.4	2171.8	2187.2	2181.0	2187.2	2224.2	2227.2	2248.8	2248.8	2255.0
27.5°	2057.8	2104.0	2079.4	2091.7	2088.6	2091.7	2131.8	2137.9	2150.2	2153.3	2159.5
30°	1946.9	1990.0	1965.4	1977.7	1977.7	1977.7	2017.8	2020.9	2033.2	2036.3	2042.4
32.5°	1817.5	1854.5	1836.0	1848.3	1845.3	1851.4	1879.1	1891.5	1906.9	1903.8	1906.9
35°	1669.7	1709.7	1691.2	1700.5	1703.6	1712.8	1731.3	1746.7	1749.8	1752.8	1759.0
37.5°	1509.5	1549.5	1531.0	1540.3	1543.4	1561.8	1568.0	1583.4	1589.6	1589.6	1589.6
40°	1355.4	1373.9	1358.5	1367.8	1370.9	1386.3	1392.4	1404.7	1410.9	1407.8	1404.7
42.5°	1189.1	1204.5	1189.1	1198.3	1198.3	1210.7	1213.7	1229.1	1229.1	1223.0	1213.7
45°	1025.8	1041.2	1025.8	1032.0	1032.0	1044.3	1044.3	1044.3	1050.5	1041.2	1025.8
47.5°	871.8	887.2	871.8	878.0	874.9	884.1	881.0	884.1	874.9	868.7	850.2
50°	733.2	739.3	733.2	730.1	733.2	739.3	736.3	736.3	723.9	714.7	693.1
52.5°	597.6	606.9	597.6	597.6	597.6	603.8	603.8	600.7	588.4	576.1	554.5
55°	483.6	489.8	486.7	483.6	483.6	489.8	483.6	483.6	471.3	462.1	440.5
57.5°	385.1	388.2	385.1	385.1	385.1	388.2	388.2	382.0	372.7	363.5	348.1
60°	298.8	301.9	301.9	298.8	298.8	305.0	305.0	301.9	292.7	286.5	271.1
62.5°	237.2	237.2	237.2	237.2	237.2	240.3	240.3	240.3	234.1	228.0	215.6
65°	187.9	191.0	187.9	187.9	191.0	194.1	191.0	194.1	187.9	184.8	175.6
67.5°	144.8	147.9	144.8	147.9	147.9	150.9	147.9	150.9	144.8	141.7	135.5
70°	110.9	110.9	110.9	110.9	110.9	114.0	110.9	114.0	110.9	107.8	101.7
72.5°	83.2	83.2	86.3	86.3	83.2	86.3	83.2	83.2	83.2	80.1	77.0
75°	61.6	61.6	64.7	61.6	61.6	61.6	61.6	61.6	58.5	58.5	55.5
77.5°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	40.0	40.0	37.0
80°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	24.6	24.6
82.5°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	15.4	15.4
85°	9.2	9.2	9.2	12.3	9.2	9.2	9.2	9.2	9.2	9.2	9.2
87.5°	3.1	3.1	3.1	6.2	3.1	3.1	6.2	6.2	3.1	3.1	3.1
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°	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2
2.5°	2606.2	2615.4	2615.4	2606.2	2627.7	2609.2	2646.2	2612.3	2621.6	2652.4	2649.3
5°	2596.9	2609.2	2612.3	2606.2	2633.9	2618.5	2655.4	2621.6	2637.0	2667.8	2667.8
7.5°	2584.6	2600.0	2606.2	2612.3	2637.0	2621.6	2664.7	2630.8	2652.4	2689.3	2686.3
10°	2556.9	2578.4	2590.8	2600.0	2624.6	2615.4	2661.6	2633.9	2652.4	2695.5	2692.4
12.5°	2541.5	2566.1	2584.6	2600.0	2627.7	2621.6	2667.8	2643.1	2667.8	2710.9	2710.9
15°	2529.1	2556.9	2578.4	2606.2	2633.9	2627.7	2677.0	2655.4	2680.1	2732.5	2729.4
17.5°	2498.3	2532.2	2553.8	2584.6	2612.3	2609.2	2661.6	2646.2	2673.9	2723.2	2726.3
20°	2446.0	2476.8	2501.4	2538.4	2569.2	2563.0	2618.5	2603.1	2630.8	2683.2	2686.3
22.5°	2378.2	2409.0	2433.6	2473.7	2501.4	2498.3	2553.8	2538.4	2566.1	2615.4	2618.5
25°	2298.1	2325.8	2350.5	2387.4	2418.2	2418.2	2467.5	2452.1	2482.9	2532.2	2532.2
27.5°	2199.5	2224.2	2245.7	2288.9	2313.5	2313.5	2359.7	2344.3	2375.1	2418.2	2415.2
30°	2079.4	2100.9	2119.4	2156.4	2178.0	2181.0	2221.1	2205.7	2236.5	2273.5	2273.5
32.5°	1934.6	1956.2	1968.5	2014.7	2030.1	2027.0	2057.8	2042.4	2073.2	2113.3	2104.0
35°	1780.6	1789.8	1799.1	1845.3	1851.4	1839.1	1869.9	1854.5	1876.1	1916.1	1910.0
37.5°	1605.0	1608.1	1608.1	1648.1	1651.2	1641.9	1660.4	1641.9	1657.3	1694.3	1691.2
40°	1410.9	1407.8	1404.7	1435.5	1432.5	1414.0	1426.3	1410.9	1432.5	1460.2	1444.8
42.5°	1213.7	1204.5	1192.2	1207.6	1195.3	1179.9	1186.0	1161.4	1176.8	1198.3	1179.9
45°	1019.7	1001.2	976.5	979.6	964.2	945.7	936.5	911.8	908.8	930.3	914.9
47.5°	837.9	800.9	779.4	767.1	742.4	727.0	708.5	680.8	668.5	680.8	665.4
50°	674.6	637.7	610.0	582.2	557.6	539.1	508.3	489.8	471.3	474.4	462.1
52.5°	532.9	508.3	462.1	440.5	415.9	394.3	366.6	345.0	323.5	323.5	311.1
55°	422.0	388.2	357.3	326.5	301.9	283.4	255.7	234.1	212.6	209.5	197.2
57.5°	326.5	301.9	268.0	237.2	221.8	203.3	175.6	150.9	138.6	129.4	120.1
60°	252.6	228.0	200.2	175.6	157.1	144.8	117.1	98.6	86.3	80.1	70.9
62.5°	203.3	181.8	157.1	132.5	120.1	107.8	86.3	70.9	58.5	52.4	46.2
65°	163.3	144.8	126.3	107.8	98.6	86.3	70.9	58.5	49.3	43.1	37.0
67.5°	126.3	114.0	98.6	86.3	77.0	67.8	55.5	46.2	40.0	33.9	30.8
70°	95.5	86.3	77.0	64.7	58.5	52.4	43.1	33.9	30.8	27.7	24.6
72.5°	73.9	64.7	55.5	49.3	43.1	40.0	33.9	27.7	24.6	21.6	18.5
75°	49.3	46.2	40.0	33.9	30.8	27.7	24.6	21.6	18.5	15.4	15.4
77.5°	33.9	30.8	27.7	24.6	21.6	21.6	18.5	15.4	12.3	12.3	9.2
80°	21.6	18.5	18.5	15.4	15.4	15.4	12.3	9.2	9.2	9.2	6.2
82.5°	15.4	12.3	12.3	9.2	9.2	9.2	9.2	6.2	6.2	6.2	3.1
85°	9.2	6.2	6.2	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	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°	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2
2.5°	2624.6	2652.4	2652.4	2677.0	2680.1	2673.9	2646.2	2646.2	2683.2	2704.7	2667.8
5°	2649.3	2677.0	2677.0	2701.7	2714.0	2704.7	2677.0	2680.1	2717.1	2741.7	2704.7
7.5°	2670.9	2698.6	2704.7	2732.5	2741.7	2732.5	2704.7	2710.9	2750.9	2772.5	2735.5
10°	2680.1	2707.8	2710.9	2741.7	2754.0	2741.7	2720.1	2723.2	2766.3	2781.8	2747.9
12.5°	2701.7	2729.4	2729.4	2763.3	2775.6	2766.3	2738.6	2744.8	2787.9	2803.3	2769.4
15°	2723.2	2750.9	2750.9	2787.9	2803.3	2791.0	2769.4	2772.5	2815.6	2831.0	2803.3
17.5°	2723.2	2747.9	2747.9	2787.9	2803.3	2794.1	2769.4	2772.5	2818.7	2831.0	2803.3
20°	2683.2	2710.9	2704.7	2744.8	2760.2	2750.9	2729.4	2729.4	2775.6	2787.9	2760.2
22.5°	2618.5	2643.1	2637.0	2673.9	2692.4	2680.1	2661.6	2658.5	2704.7	2717.1	2689.3
25°	2529.1	2553.8	2547.6	2584.6	2603.1	2587.7	2566.1	2569.2	2606.2	2624.6	2600.0
27.5°	2424.4	2439.8	2430.6	2467.5	2486.0	2470.6	2449.1	2452.1	2489.1	2501.4	2482.9
30°	2282.7	2295.0	2285.8	2316.6	2328.9	2319.7	2301.2	2301.2	2335.1	2350.5	2332.0
32.5°	2113.3	2122.5	2113.3	2137.9	2162.6	2144.1	2125.6	2125.6	2162.6	2174.9	2153.3
35°	1916.1	1925.4	1919.2	1943.8	1962.3	1937.7	1922.3	1916.1	1965.4	1959.2	1946.9
37.5°	1697.4	1703.6	1685.1	1728.2	1737.4	1709.7	1697.4	1691.2	1734.4	1731.3	1719.0
40°	1450.9	1457.1	1444.8	1475.6	1478.7	1457.1	1447.9	1438.6	1481.8	1478.7	1469.4
42.5°	1189.1	1192.2	1176.8	1201.4	1207.6	1186.0	1182.9	1170.6	1210.7	1204.5	1201.4
45°	918.0	918.0	905.7	924.2	930.3	911.8	905.7	902.6	930.3	930.3	924.2
47.5°	665.4	656.2	640.8	668.5	671.6	659.2	656.2	646.9	674.6	674.6	668.5
50°	455.9	452.8	449.8	455.9	459.0	443.6	452.8	443.6	459.0	459.0	459.0
52.5°	305.0	301.9	295.7	301.9	301.9	292.7	292.7	289.6	301.9	301.9	295.7
55°	191.0	187.9	184.8	187.9	187.9	178.7	184.8	178.7	184.8	184.8	181.8
57.5°	117.1	110.9	110.9	107.8	107.8	101.7	104.7	104.7	104.7	104.7	104.7
60°	67.8	64.7	61.6	61.6	61.6	58.5	58.5	58.5	58.5	58.5	58.5
62.5°	43.1	43.1	40.0	40.0	40.0	40.0	40.0	37.0	40.0	40.0	40.0
65°	37.0	33.9	33.9	33.9	33.9	30.8	30.8	30.8	30.8	30.8	30.8
67.5°	30.8	27.7	27.7	27.7	27.7	24.6	24.6	24.6	24.6	24.6	24.6
70°	24.6	21.6	21.6	21.6	21.6	21.6	18.5	21.6	21.6	18.5	18.5
72.5°	18.5	18.5	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
75°	12.3	12.3	12.3	12.3	12.3	9.2	9.2	9.2	9.2	9.2	9.2
77.5°	9.2	9.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
80°	6.2	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	3.1	3.1	3.1	3.1	3.1	0.0	3.1	0.0	3.1	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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: P212843

CATALOG NUMBER: LD6B50D010TE EU6B30509035 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2
2.5°	2710.9	2680.1	2664.7	2695.5	2707.8	2692.4	2680.1	2658.5	2680.1	2692.4	2707.8
5°	2747.9	2720.1	2707.8	2729.4	2747.9	2732.5	2723.2	2701.7	2723.2	2732.5	2747.9
7.5°	2781.8	2754.0	2738.6	2760.2	2781.8	2760.2	2750.9	2732.5	2750.9	2760.2	2781.8
10°	2794.1	2763.3	2750.9	2769.4	2791.0	2769.4	2757.1	2744.8	2757.1	2769.4	2791.0
12.5°	2815.6	2784.8	2769.4	2784.8	2806.4	2784.8	2772.5	2763.3	2772.5	2784.8	2806.4
15°	2846.4	2818.7	2800.2	2815.6	2843.4	2818.7	2803.3	2800.2	2803.3	2818.7	2843.4
17.5°	2846.4	2824.9	2806.4	2818.7	2846.4	2828.0	2806.4	2812.6	2806.4	2828.0	2846.4
20°	2806.4	2784.8	2769.4	2769.4	2809.5	2784.8	2766.3	2775.6	2766.3	2784.8	2809.5
22.5°	2735.5	2717.1	2701.7	2698.6	2738.6	2717.1	2692.4	2710.9	2692.4	2717.1	2738.6
25°	2643.1	2624.6	2612.3	2606.2	2646.2	2621.6	2600.0	2618.5	2600.0	2621.6	2646.2
27.5°	2523.0	2507.6	2495.3	2486.0	2523.0	2501.4	2479.9	2498.3	2479.9	2501.4	2523.0
30°	2369.0	2359.7	2347.4	2335.1	2372.0	2350.5	2328.9	2353.6	2328.9	2350.5	2372.0
32.5°	2190.3	2184.1	2168.7	2156.4	2193.4	2168.7	2153.3	2171.8	2153.3	2168.7	2193.4
35°	1983.9	1974.6	1965.4	1943.8	1983.9	1962.3	1962.3	1968.5	1962.3	1962.3	1983.9
37.5°	1752.8	1746.7	1734.4	1715.9	1749.8	1734.4	1728.2	1746.7	1728.2	1734.4	1749.8
40°	1494.1	1491.0	1481.8	1460.2	1497.2	1481.8	1472.5	1497.2	1472.5	1481.8	1497.2
42.5°	1223.0	1216.8	1207.6	1204.5	1223.0	1210.7	1219.9	1219.9	1219.9	1210.7	1223.0
45°	942.7	936.5	930.3	918.0	939.6	933.4	930.3	936.5	930.3	933.4	939.6
47.5°	683.9	677.7	671.6	662.3	683.9	674.6	674.6	680.8	674.6	674.6	683.9
50°	459.0	462.1	459.0	452.8	459.0	455.9	459.0	465.2	459.0	455.9	459.0
52.5°	305.0	305.0	298.8	295.7	301.9	298.8	308.1	301.9	308.1	298.8	301.9
55°	184.8	187.9	184.8	181.8	184.8	181.8	191.0	187.9	191.0	181.8	184.8
57.5°	104.7	104.7	107.8	104.7	110.9	107.8	107.8	107.8	107.8	107.8	110.9
60°	58.5	58.5	58.5	58.5	58.5	58.5	61.6	58.5	61.6	58.5	58.5
62.5°	40.0	40.0	40.0	37.0	40.0	37.0	40.0	40.0	40.0	37.0	40.0
65°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
67.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
70°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
72.5°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
77.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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: P212843

CATALOG NUMBER: LD6B50D010TE EU6B30509035 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2
2.5°	2695.5	2664.7	2680.1	2710.9	2667.8	2704.7	2683.2	2646.2	2646.2	2673.9	2680.1
5°	2729.4	2707.8	2720.1	2747.9	2704.7	2741.7	2717.1	2680.1	2677.0	2704.7	2714.0
7.5°	2760.2	2738.6	2754.0	2781.8	2735.5	2772.5	2750.9	2710.9	2704.7	2732.5	2741.7
10°	2769.4	2750.9	2763.3	2794.1	2747.9	2781.8	2766.3	2723.2	2720.1	2741.7	2754.0
12.5°	2784.8	2769.4	2784.8	2815.6	2769.4	2803.3	2787.9	2744.8	2738.6	2766.3	2775.6
15°	2815.6	2800.2	2818.7	2846.4	2803.3	2831.0	2815.6	2772.5	2769.4	2791.0	2803.3
17.5°	2818.7	2806.4	2824.9	2846.4	2803.3	2831.0	2818.7	2772.5	2769.4	2794.1	2803.3
20°	2769.4	2769.4	2784.8	2806.4	2760.2	2787.9	2775.6	2729.4	2729.4	2750.9	2760.2
22.5°	2698.6	2701.7	2717.1	2735.5	2689.3	2717.1	2704.7	2658.5	2661.6	2680.1	2692.4
25°	2606.2	2612.3	2624.6	2643.1	2600.0	2624.6	2606.2	2569.2	2566.1	2587.7	2603.1
27.5°	2486.0	2495.3	2507.6	2523.0	2482.9	2501.4	2489.1	2452.1	2449.1	2470.6	2486.0
30°	2335.1	2347.4	2359.7	2369.0	2332.0	2350.5	2335.1	2301.2	2301.2	2319.7	2328.9
32.5°	2156.4	2168.7	2184.1	2190.3	2153.3	2174.9	2162.6	2125.6	2125.6	2144.1	2162.6
35°	1943.8	1965.4	1974.6	1983.9	1946.9	1959.2	1965.4	1916.1	1922.3	1937.7	1962.3
37.5°	1715.9	1734.4	1746.7	1752.8	1719.0	1731.3	1734.4	1691.2	1697.4	1709.7	1737.4
40°	1460.2	1481.8	1491.0	1494.1	1469.4	1478.7	1481.8	1438.6	1447.9	1457.1	1478.7
42.5°	1204.5	1207.6	1216.8	1223.0	1201.4	1204.5	1210.7	1170.6	1182.9	1186.0	1207.6
45°	918.0	930.3	936.5	942.7	924.2	930.3	930.3	902.6	905.7	911.8	930.3
47.5°	662.3	671.6	677.7	683.9	668.5	674.6	674.6	646.9	656.2	659.2	671.6
50°	452.8	459.0	462.1	459.0	459.0	459.0	459.0	443.6	452.8	443.6	459.0
52.5°	295.7	298.8	305.0	305.0	295.7	301.9	301.9	289.6	292.7	292.7	301.9
55°	181.8	184.8	187.9	184.8	181.8	184.8	184.8	178.7	184.8	178.7	187.9
57.5°	104.7	107.8	104.7	104.7	104.7	104.7	104.7	104.7	104.7	101.7	107.8
60°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	61.6
62.5°	37.0	40.0	40.0	40.0	40.0	40.0	40.0	37.0	40.0	40.0	40.0
65°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	33.9
67.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	27.7
70°	18.5	18.5	18.5	18.5	18.5	18.5	21.6	21.6	18.5	21.6	21.6
72.5°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3
77.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	3.1	0.0	3.1
87.5°	0.0	0.0	0.0	0.0	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: P212843

CATALOG NUMBER: LD6B50D010TE EU6B30509035 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2
2.5°	2677.0	2652.4	2652.4	2624.6	2649.3	2652.4	2621.6	2612.3	2646.2	2609.2	2627.7
5°	2701.7	2677.0	2677.0	2649.3	2667.8	2667.8	2637.0	2621.6	2655.4	2618.5	2633.9
7.5°	2732.5	2704.7	2698.6	2670.9	2686.3	2689.3	2652.4	2630.8	2664.7	2621.6	2637.0
10°	2741.7	2710.9	2707.8	2680.1	2692.4	2695.5	2652.4	2633.9	2661.6	2615.4	2624.6
12.5°	2763.3	2729.4	2729.4	2701.7	2710.9	2710.9	2667.8	2643.1	2667.8	2621.6	2627.7
15°	2787.9	2750.9	2750.9	2723.2	2729.4	2732.5	2680.1	2655.4	2677.0	2627.7	2633.9
17.5°	2787.9	2747.9	2747.9	2723.2	2726.3	2723.2	2673.9	2646.2	2661.6	2609.2	2612.3
20°	2744.8	2704.7	2710.9	2683.2	2686.3	2683.2	2630.8	2603.1	2618.5	2563.0	2569.2
22.5°	2673.9	2637.0	2643.1	2618.5	2618.5	2615.4	2566.1	2538.4	2553.8	2498.3	2501.4
25°	2584.6	2547.6	2553.8	2529.1	2532.2	2532.2	2482.9	2452.1	2467.5	2418.2	2418.2
27.5°	2467.5	2430.6	2439.8	2424.4	2415.2	2418.2	2375.1	2344.3	2359.7	2313.5	2313.5
30°	2316.6	2285.8	2295.0	2282.7	2273.5	2273.5	2236.5	2205.7	2221.1	2181.0	2178.0
32.5°	2137.9	2113.3	2122.5	2113.3	2104.0	2113.3	2073.2	2042.4	2057.8	2027.0	2030.1
35°	1943.8	1919.2	1925.4	1916.1	1910.0	1916.1	1876.1	1854.5	1869.9	1839.1	1851.4
37.5°	1728.2	1685.1	1703.6	1697.4	1691.2	1694.3	1657.3	1641.9	1660.4	1641.9	1651.2
40°	1475.6	1444.8	1457.1	1450.9	1444.8	1460.2	1432.5	1410.9	1426.3	1414.0	1432.5
42.5°	1201.4	1176.8	1192.2	1189.1	1179.9	1198.3	1176.8	1161.4	1186.0	1179.9	1195.3
45°	924.2	905.7	918.0	918.0	914.9	930.3	908.8	911.8	936.5	945.7	964.2
47.5°	668.5	640.8	656.2	665.4	665.4	680.8	668.5	680.8	708.5	727.0	742.4
50°	455.9	449.8	452.8	455.9	462.1	474.4	471.3	489.8	508.3	539.1	557.6
52.5°	301.9	295.7	301.9	305.0	311.1	323.5	323.5	345.0	366.6	394.3	415.9
55°	187.9	184.8	187.9	191.0	197.2	209.5	212.6	234.1	255.7	283.4	301.9
57.5°	107.8	110.9	110.9	117.1	120.1	129.4	138.6	150.9	175.6	203.3	221.8
60°	61.6	61.6	64.7	67.8	70.9	80.1	86.3	98.6	117.1	144.8	157.1
62.5°	40.0	40.0	43.1	43.1	46.2	52.4	58.5	70.9	86.3	107.8	120.1
65°	33.9	33.9	33.9	37.0	37.0	43.1	49.3	58.5	70.9	86.3	98.6
67.5°	27.7	27.7	27.7	30.8	30.8	33.9	40.0	46.2	55.5	67.8	77.0
70°	21.6	21.6	21.6	24.6	24.6	27.7	30.8	33.9	43.1	52.4	58.5
72.5°	15.4	15.4	18.5	18.5	18.5	21.6	24.6	27.7	33.9	40.0	43.1
75°	12.3	12.3	12.3	12.3	15.4	15.4	18.5	21.6	24.6	27.7	30.8
77.5°	6.2	6.2	9.2	9.2	9.2	12.3	12.3	15.4	18.5	21.6	21.6
80°	6.2	6.2	6.2	6.2	6.2	9.2	9.2	9.2	12.3	15.4	15.4
82.5°	3.1	3.1	3.1	3.1	3.1	6.2	6.2	6.2	9.2	9.2	9.2
85°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	6.2	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1
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: P212843

CATALOG NUMBER: LD6B50D010TE EU6B30509035 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2	2646.2
2.5°	2606.2	2615.4	2615.4	2606.2	2581.5	2603.1	2624.6	2603.1	2630.8	2581.5	2581.5
5°	2606.2	2612.3	2609.2	2596.9	2572.3	2590.8	2606.2	2584.6	2606.2	2560.0	2556.9
7.5°	2612.3	2606.2	2600.0	2584.6	2553.8	2566.1	2581.5	2556.9	2578.4	2529.1	2523.0
10°	2600.0	2590.8	2578.4	2556.9	2523.0	2532.2	2541.5	2519.9	2535.3	2486.0	2482.9
12.5°	2600.0	2584.6	2566.1	2541.5	2504.5	2510.7	2519.9	2492.2	2504.5	2458.3	2452.1
15°	2606.2	2578.4	2556.9	2529.1	2489.1	2492.2	2498.3	2467.5	2479.9	2430.6	2427.5
17.5°	2584.6	2553.8	2532.2	2498.3	2455.2	2458.3	2458.3	2427.5	2436.7	2387.4	2384.4
20°	2538.4	2501.4	2476.8	2446.0	2399.8	2399.8	2399.8	2369.0	2375.1	2332.0	2325.8
22.5°	2473.7	2433.6	2409.0	2378.2	2335.1	2332.0	2328.9	2304.3	2304.3	2264.2	2255.0
25°	2387.4	2350.5	2325.8	2298.1	2255.0	2248.8	2248.8	2227.2	2224.2	2187.2	2181.0
27.5°	2288.9	2245.7	2224.2	2199.5	2159.5	2153.3	2150.2	2137.9	2131.8	2091.7	2088.6
30°	2156.4	2119.4	2100.9	2079.4	2042.4	2036.3	2033.2	2020.9	2017.8	1977.7	1977.7
32.5°	2014.7	1968.5	1956.2	1934.6	1906.9	1903.8	1906.9	1891.5	1879.1	1851.4	1845.3
35°	1845.3	1799.1	1789.8	1780.6	1759.0	1752.8	1749.8	1746.7	1731.3	1712.8	1703.6
37.5°	1648.1	1608.1	1608.1	1605.0	1589.6	1589.6	1589.6	1583.4	1568.0	1561.8	1543.4
40°	1435.5	1404.7	1407.8	1410.9	1404.7	1407.8	1410.9	1404.7	1392.4	1386.3	1370.9
42.5°	1207.6	1192.2	1204.5	1213.7	1213.7	1223.0	1229.1	1229.1	1213.7	1210.7	1198.3
45°	979.6	976.5	1001.2	1019.7	1025.8	1041.2	1050.5	1044.3	1044.3	1044.3	1032.0
47.5°	767.1	779.4	800.9	837.9	850.2	868.7	874.9	884.1	881.0	884.1	874.9
50°	582.2	610.0	637.7	674.6	693.1	714.7	723.9	736.3	736.3	739.3	733.2
52.5°	440.5	462.1	508.3	532.9	554.5	576.1	588.4	600.7	603.8	603.8	597.6
55°	326.5	357.3	388.2	422.0	440.5	462.1	471.3	483.6	483.6	489.8	483.6
57.5°	237.2	268.0	301.9	326.5	348.1	363.5	372.7	382.0	388.2	388.2	385.1
60°	175.6	200.2	228.0	252.6	271.1	286.5	292.7	301.9	305.0	305.0	298.8
62.5°	132.5	157.1	181.8	203.3	215.6	228.0	234.1	240.3	240.3	240.3	237.2
65°	107.8	126.3	144.8	163.3	175.6	184.8	187.9	194.1	191.0	194.1	191.0
67.5°	86.3	98.6	114.0	126.3	135.5	141.7	144.8	150.9	147.9	150.9	147.9
70°	64.7	77.0	86.3	95.5	101.7	107.8	110.9	114.0	110.9	114.0	110.9
72.5°	49.3	55.5	64.7	73.9	77.0	80.1	83.2	83.2	83.2	86.3	83.2
75°	33.9	40.0	46.2	49.3	55.5	58.5	58.5	61.6	61.6	61.6	61.6
77.5°	24.6	27.7	30.8	33.9	37.0	40.0	40.0	43.1	43.1	43.1	43.1
80°	15.4	18.5	18.5	21.6	24.6	24.6	27.7	27.7	27.7	27.7	27.7
82.5°	9.2	12.3	12.3	15.4	15.4	15.4	18.5	18.5	18.5	18.5	18.5
85°	6.2	6.2	6.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	6.2	3.1	3.1
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: P212843

CATALOG NUMBER: LD6B50D010TE EU6B30509035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2646.2	2646.2	2646.2	2646.2
2.5°	2606.2	2590.8	2615.4	2578.4
5°	2578.4	2563.0	2593.8	2547.6
7.5°	2544.5	2529.1	2556.9	2510.7
10°	2501.4	2486.0	2510.7	2461.4
12.5°	2464.5	2449.1	2476.8	2430.6
15°	2436.7	2421.3	2446.0	2402.8
17.5°	2393.6	2375.1	2402.8	2356.6
20°	2332.0	2319.7	2341.2	2295.0
22.5°	2261.1	2248.8	2273.5	2227.2
25°	2187.2	2171.8	2196.4	2150.2
27.5°	2091.7	2079.4	2104.0	2057.8
30°	1977.7	1965.4	1990.0	1946.9
32.5°	1848.3	1836.0	1854.5	1817.5
35°	1700.5	1691.2	1709.7	1669.7
37.5°	1540.3	1531.0	1549.5	1509.5
40°	1367.8	1358.5	1373.9	1355.4
42.5°	1198.3	1189.1	1204.5	1189.1
45°	1032.0	1025.8	1041.2	1025.8
47.5°	878.0	871.8	887.2	871.8
50°	730.1	733.2	739.3	733.2
52.5°	597.6	597.6	606.9	597.6
55°	483.6	486.7	489.8	483.6
57.5°	385.1	385.1	388.2	385.1
60°	298.8	301.9	301.9	298.8
62.5°	237.2	237.2	237.2	237.2
65°	187.9	187.9	191.0	187.9
67.5°	147.9	144.8	147.9	144.8
70°	110.9	110.9	110.9	110.9
72.5°	86.3	86.3	83.2	83.2
75°	61.6	64.7	61.6	61.6
77.5°	43.1	43.1	43.1	43.1
80°	27.7	27.7	27.7	27.7
82.5°	18.5	18.5	18.5	18.5
85°	12.3	9.2	9.2	9.2
87.5°	6.2	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°





















(END OF REPORT)