

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: P212845

Luminaire Tested: **LD6B50D010TE EU6B30509050 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212845
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 EU6B30509050 6LBSWL11
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4451.1 lumens
Efficiency: N/A
Efficacy: 75.7 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

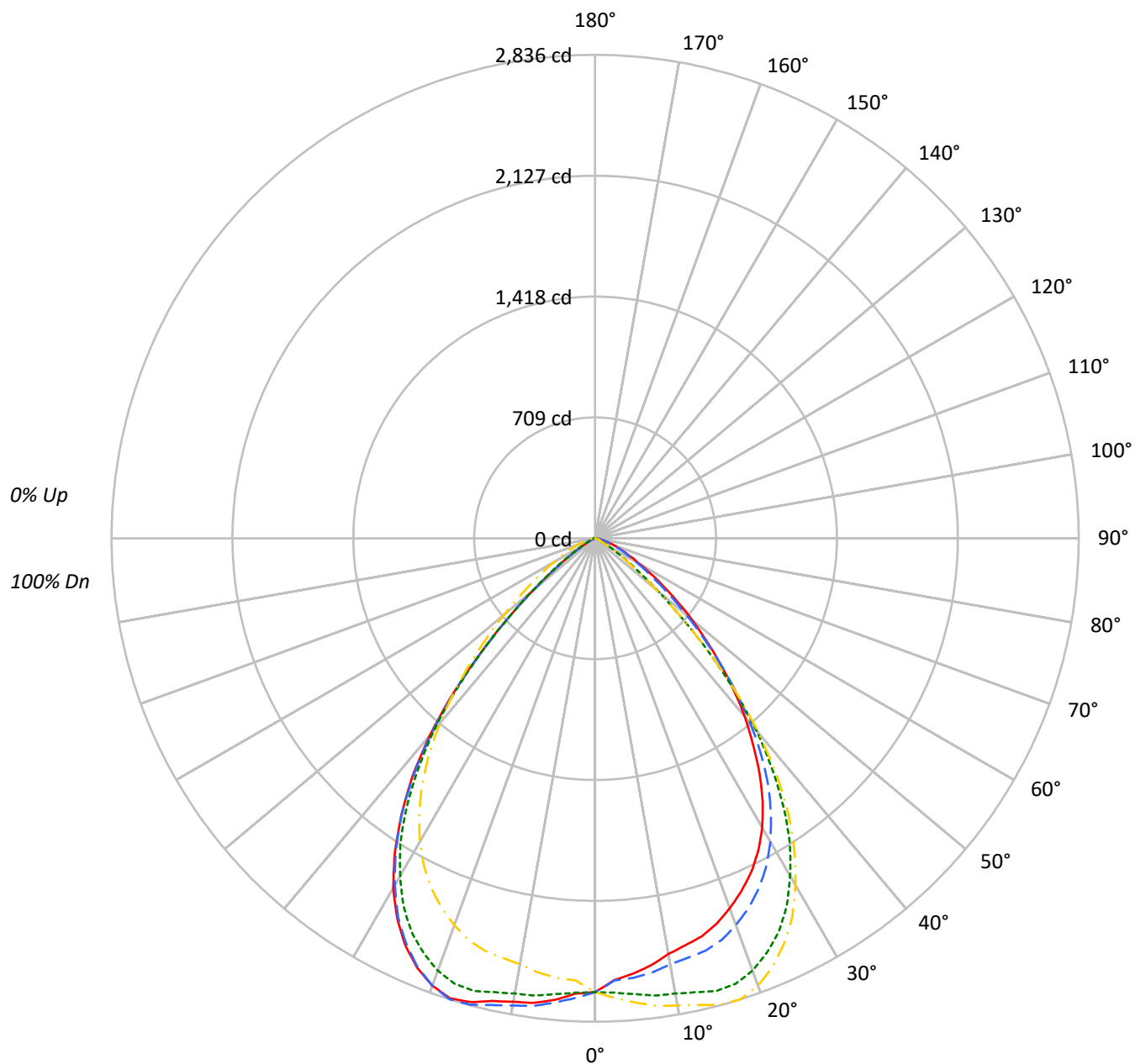
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82		
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73		
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	145942	145942	145942	145942
5°	141046	147694	149570	147694
10°	137845	150955	153716	150955
15°	137197	156017	159887	156017
20°	134698	157479	162904	157479
25°	130852	154098	159342	154098
30°	123987	144782	149884	144782
35°	112417	129008	132534	129008
40°	97590	105126	107788	105126
45°	80008	72566	73046	72566
50°	62906	40707	39913	40707
55°	46507	20138	18073	20138
60°	32958	8837	6458	8837
65°	24529	5630	4021	5630
70°	17888	4472	2981	4472
75°	13132	3283	1970	3283
80°	8808	2936	979	2936
85°	5850	1950	1950	1950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	5.7
10°-20°	754.8	17.0
20°-30°	1126.4	25.3
30°-40°	1157.3	26.0
40°-50°	749.4	16.8
50°-60°	278.7	6.3
60°-70°	91.4	2.1
70°-80°	32.3	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°	2136.1	48.0
0°-40°	3293.4	74.0
0°-60°	4321.6	97.1
0°-90°	4451.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2662	2662	2662	2662	2662	
5°	2563	2684	2718	2684	2563	242
15°	2417	2749	2817	2749	2417	680
25°	2163	2548	2634	2548	2163	991
35°	1680	1928	1980	1928	1680	1043
45°	1032	936	942	936	1032	798
55°	487	211	189	211	487	444
65°	189	43	31	43	189	192
75°	62	16	9	16	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°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2594.0	2631.2	2606.4	2621.9	2597.1	2597.1	2646.7	2618.8	2640.5	2618.8	2597.1
5°	2563.1	2609.5	2578.5	2594.0	2572.4	2575.4	2621.9	2600.2	2621.9	2606.4	2587.8
7.5°	2525.9	2572.4	2544.5	2560.0	2538.3	2544.5	2594.0	2572.4	2597.1	2581.6	2569.3
10°	2476.3	2525.9	2501.1	2516.6	2498.0	2501.1	2550.7	2535.2	2556.9	2547.6	2538.3
12.5°	2445.3	2491.8	2463.9	2479.4	2467.0	2473.2	2519.7	2507.3	2535.2	2525.9	2519.7
15°	2417.4	2460.8	2436.0	2451.5	2442.2	2445.3	2494.9	2482.5	2513.5	2507.3	2504.2
17.5°	2370.9	2417.4	2389.5	2408.1	2398.8	2401.9	2451.5	2442.2	2473.2	2473.2	2470.1
20°	2308.9	2355.4	2333.7	2346.1	2339.9	2346.1	2389.5	2383.3	2414.3	2414.3	2414.3
22.5°	2240.7	2287.2	2262.4	2274.8	2268.6	2277.9	2318.2	2318.2	2343.0	2346.1	2349.2
25°	2163.3	2209.7	2184.9	2200.4	2194.2	2200.4	2237.6	2240.7	2262.4	2262.4	2268.6
27.5°	2070.3	2116.8	2092.0	2104.4	2101.3	2104.4	2144.7	2150.9	2163.3	2166.4	2172.6
30°	1958.7	2002.1	1977.3	1989.7	1989.7	1989.7	2030.0	2033.1	2045.5	2048.6	2054.8
32.5°	1828.5	1865.7	1847.1	1859.5	1856.4	1862.6	1890.5	1902.9	1918.4	1915.3	1918.4
35°	1679.8	1720.1	1701.5	1710.8	1713.9	1723.2	1741.8	1757.3	1760.4	1763.5	1769.7
37.5°	1518.6	1558.9	1540.3	1549.6	1552.7	1571.3	1577.5	1593.0	1599.2	1599.2	1599.2
40°	1363.7	1382.3	1366.8	1376.1	1379.2	1394.6	1400.8	1413.2	1419.4	1416.3	1413.2
42.5°	1196.3	1211.8	1196.3	1205.6	1205.6	1218.0	1221.1	1236.6	1236.6	1230.4	1221.1
45°	1032.0	1047.5	1032.0	1038.2	1038.2	1050.6	1050.6	1050.6	1056.8	1047.5	1032.0
47.5°	877.1	892.6	877.1	883.3	880.2	889.5	886.4	889.5	880.2	874.0	855.4
50°	737.6	743.8	737.6	734.5	737.6	743.8	740.7	740.7	728.3	719.0	697.3
52.5°	601.2	610.5	601.2	601.2	601.2	607.4	607.4	604.3	592.0	579.6	557.9
55°	486.6	492.8	489.7	486.6	486.6	492.8	486.6	486.6	474.2	464.9	443.2
57.5°	387.4	390.5	387.4	387.4	387.4	390.5	390.5	384.3	375.0	365.7	350.2
60°	300.6	303.7	303.7	300.6	300.6	306.8	306.8	303.7	294.4	288.2	272.7
62.5°	238.6	238.6	238.6	238.6	238.6	241.7	241.7	241.7	235.5	229.3	216.9
65°	189.1	192.2	189.1	189.1	192.2	195.3	192.2	195.3	189.1	186.0	176.7
67.5°	145.7	148.8	145.7	148.8	148.8	151.9	148.8	151.9	145.7	142.6	136.4
70°	111.6	111.6	111.6	111.6	111.6	114.7	111.6	114.7	111.6	108.5	102.3
72.5°	83.7	83.7	86.8	86.8	83.7	86.8	83.7	83.7	83.7	80.6	77.5
75°	62.0	62.0	65.1	62.0	62.0	62.0	62.0	62.0	58.9	58.9	55.8
77.5°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	40.3	40.3	37.2
80°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	24.8	24.8
82.5°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	15.5	15.5
85°	9.3	9.3	9.3	12.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3
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°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2621.9	2631.2	2631.2	2621.9	2643.6	2625.0	2662.2	2628.1	2637.4	2668.4	2665.3
5°	2612.6	2625.0	2628.1	2621.9	2649.8	2634.3	2671.5	2637.4	2652.9	2683.9	2683.9
7.5°	2600.2	2615.7	2621.9	2628.1	2652.9	2637.4	2680.8	2646.7	2668.4	2705.6	2702.5
10°	2572.4	2594.0	2606.4	2615.7	2640.5	2631.2	2677.7	2649.8	2668.4	2711.8	2708.7
12.5°	2556.9	2581.6	2600.2	2615.7	2643.6	2637.4	2683.9	2659.1	2683.9	2727.3	2727.3
15°	2544.5	2572.4	2594.0	2621.9	2649.8	2643.6	2693.2	2671.5	2696.3	2749.0	2745.9
17.5°	2513.5	2547.6	2569.3	2600.2	2628.1	2625.0	2677.7	2662.2	2690.1	2739.7	2742.8
20°	2460.8	2491.8	2516.6	2553.8	2584.7	2578.5	2634.3	2618.8	2646.7	2699.4	2702.5
22.5°	2392.6	2423.6	2448.4	2488.7	2516.6	2513.5	2569.3	2553.8	2581.6	2631.2	2634.3
25°	2312.0	2339.9	2364.7	2401.9	2432.9	2432.9	2482.5	2467.0	2498.0	2547.6	2547.6
27.5°	2212.8	2237.6	2259.3	2302.7	2327.5	2327.5	2374.0	2358.5	2389.5	2432.9	2429.8
30°	2092.0	2113.7	2132.3	2169.5	2191.1	2194.2	2234.5	2219.0	2250.0	2287.2	2287.2
32.5°	1946.3	1968.0	1980.4	2026.9	2042.4	2039.3	2070.3	2054.8	2085.8	2126.1	2116.8
35°	1791.3	1800.6	1809.9	1856.4	1862.6	1850.2	1881.2	1865.7	1887.4	1927.7	1921.5
37.5°	1614.7	1617.8	1617.8	1658.1	1661.2	1651.9	1670.5	1651.9	1667.4	1704.6	1701.5
40°	1419.4	1416.3	1413.2	1444.2	1441.1	1422.5	1434.9	1419.4	1441.1	1469.0	1453.5
42.5°	1221.1	1211.8	1199.4	1214.9	1202.5	1187.0	1193.2	1168.4	1183.9	1205.6	1187.0
45°	1025.8	1007.2	982.5	985.6	970.1	951.5	942.2	917.4	914.3	936.0	920.5
47.5°	843.0	805.8	784.1	771.7	746.9	731.4	712.8	684.9	672.5	684.9	669.4
50°	678.7	641.5	613.6	585.8	561.0	542.4	511.4	492.8	474.2	477.3	464.9
52.5°	536.2	511.4	464.9	443.2	418.4	396.7	368.8	347.1	325.4	325.4	313.0
55°	424.6	390.5	359.5	328.5	303.7	285.1	257.2	235.5	213.8	210.7	198.3
57.5°	328.5	303.7	269.6	238.6	223.1	204.5	176.7	151.9	139.5	130.2	120.9
60°	254.1	229.3	201.4	176.7	158.1	145.7	117.8	99.2	86.8	80.6	71.3
62.5°	204.5	182.9	158.1	133.3	120.9	108.5	86.8	71.3	58.9	52.7	46.5
65°	164.3	145.7	127.1	108.5	99.2	86.8	71.3	58.9	49.6	43.4	37.2
67.5°	127.1	114.7	99.2	86.8	77.5	68.2	55.8	46.5	40.3	34.1	31.0
70°	96.1	86.8	77.5	65.1	58.9	52.7	43.4	34.1	31.0	27.9	24.8
72.5°	74.4	65.1	55.8	49.6	43.4	40.3	34.1	27.9	24.8	21.7	18.6
75°	49.6	46.5	40.3	34.1	31.0	27.9	24.8	21.7	18.6	15.5	15.5
77.5°	34.1	31.0	27.9	24.8	21.7	21.7	18.6	15.5	12.4	12.4	9.3
80°	21.7	18.6	18.6	15.5	15.5	15.5	12.4	9.3	9.3	9.3	6.2
82.5°	15.5	12.4	12.4	9.3	9.3	9.3	9.3	6.2	6.2	6.2	3.1
85°	9.3	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°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2640.5	2668.4	2668.4	2693.2	2696.3	2690.1	2662.2	2662.2	2699.4	2721.1	2683.9
5°	2665.3	2693.2	2693.2	2718.0	2730.4	2721.1	2693.2	2696.3	2733.5	2758.3	2721.1
7.5°	2687.0	2714.9	2721.1	2749.0	2758.3	2749.0	2721.1	2727.3	2767.6	2789.3	2752.1
10°	2696.3	2724.2	2727.3	2758.3	2770.7	2758.3	2736.6	2739.7	2783.1	2798.6	2764.5
12.5°	2718.0	2745.9	2745.9	2780.0	2792.4	2783.1	2755.2	2761.4	2804.8	2820.3	2786.2
15°	2739.7	2767.6	2767.6	2804.8	2820.3	2807.9	2786.2	2789.3	2832.7	2848.2	2820.3
17.5°	2739.7	2764.5	2764.5	2804.8	2820.3	2811.0	2786.2	2789.3	2835.8	2848.2	2820.3
20°	2699.4	2727.3	2721.1	2761.4	2776.9	2767.6	2745.9	2745.9	2792.4	2804.8	2776.9
22.5°	2634.3	2659.1	2652.9	2690.1	2708.7	2696.3	2677.7	2674.6	2721.1	2733.5	2705.6
25°	2544.5	2569.3	2563.1	2600.2	2618.8	2603.3	2581.6	2584.7	2621.9	2640.5	2615.7
27.5°	2439.1	2454.6	2445.3	2482.5	2501.1	2485.6	2463.9	2467.0	2504.2	2516.6	2498.0
30°	2296.5	2308.9	2299.6	2330.6	2343.0	2333.7	2315.1	2315.1	2349.2	2364.7	2346.1
32.5°	2126.1	2135.4	2126.1	2150.9	2175.7	2157.1	2138.5	2138.5	2175.7	2188.0	2166.4
35°	1927.7	1937.0	1930.8	1955.6	1974.2	1949.4	1933.9	1927.7	1977.3	1971.1	1958.7
37.5°	1707.7	1713.9	1695.3	1738.7	1748.0	1720.1	1707.7	1701.5	1744.9	1741.8	1729.4
40°	1459.7	1465.9	1453.5	1484.5	1487.6	1465.9	1456.6	1447.3	1490.7	1487.6	1478.3
42.5°	1196.3	1199.4	1183.9	1208.7	1214.9	1193.2	1190.1	1177.7	1218.0	1211.8	1208.7
45°	923.6	923.6	911.2	929.8	936.0	917.4	911.2	908.1	936.0	936.0	929.8
47.5°	669.4	660.1	644.6	672.5	675.6	663.2	660.1	650.8	678.7	678.7	672.5
50°	458.7	455.6	452.5	458.7	461.8	446.3	455.6	446.3	461.8	461.8	461.8
52.5°	306.8	303.7	297.5	303.7	303.7	294.4	294.4	291.3	303.7	303.7	297.5
55°	192.2	189.1	186.0	189.1	189.1	179.8	186.0	179.8	186.0	186.0	182.9
57.5°	117.8	111.6	111.6	108.5	108.5	102.3	105.4	105.4	105.4	105.4	105.4
60°	68.2	65.1	62.0	62.0	62.0	58.9	58.9	58.9	58.9	58.9	58.9
62.5°	43.4	43.4	40.3	40.3	40.3	40.3	40.3	37.2	40.3	40.3	40.3
65°	37.2	34.1	34.1	34.1	34.1	31.0	31.0	31.0	31.0	31.0	31.0
67.5°	31.0	27.9	27.9	27.9	27.9	24.8	24.8	24.8	24.8	24.8	24.8
70°	24.8	21.7	21.7	21.7	21.7	21.7	18.6	21.7	21.7	18.6	18.6
72.5°	18.6	18.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
75°	12.4	12.4	12.4	12.4	12.4	9.3	9.3	9.3	9.3	9.3	9.3
77.5°	9.3	9.3	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: P212845

CATALOG NUMBER: LD6B50D010TE EU6B30509050 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2727.3	2696.3	2680.8	2711.8	2724.2	2708.7	2696.3	2674.6	2696.3	2708.7	2724.2
5°	2764.5	2736.6	2724.2	2745.9	2764.5	2749.0	2739.7	2718.0	2739.7	2749.0	2764.5
7.5°	2798.6	2770.7	2755.2	2776.9	2798.6	2776.9	2767.6	2749.0	2767.6	2776.9	2798.6
10°	2811.0	2780.0	2767.6	2786.2	2807.9	2786.2	2773.8	2761.4	2773.8	2786.2	2807.9
12.5°	2832.7	2801.7	2786.2	2801.7	2823.4	2801.7	2789.3	2780.0	2789.3	2801.7	2823.4
15°	2863.7	2835.8	2817.2	2832.7	2860.6	2835.8	2820.3	2817.2	2820.3	2835.8	2860.6
17.5°	2863.7	2842.0	2823.4	2835.8	2863.7	2845.1	2823.4	2829.6	2823.4	2845.1	2863.7
20°	2823.4	2801.7	2786.2	2786.2	2826.5	2801.7	2783.1	2792.4	2783.1	2801.7	2826.5
22.5°	2752.1	2733.5	2718.0	2714.9	2755.2	2733.5	2708.7	2727.3	2708.7	2733.5	2755.2
25°	2659.1	2640.5	2628.1	2621.9	2662.2	2637.4	2615.7	2634.3	2615.7	2637.4	2662.2
27.5°	2538.3	2522.8	2510.4	2501.1	2538.3	2516.6	2494.9	2513.5	2494.9	2516.6	2538.3
30°	2383.3	2374.0	2361.6	2349.2	2386.4	2364.7	2343.0	2367.8	2343.0	2364.7	2386.4
32.5°	2203.5	2197.3	2181.8	2169.5	2206.6	2181.8	2166.4	2184.9	2166.4	2181.8	2206.6
35°	1995.9	1986.6	1977.3	1955.6	1995.9	1974.2	1974.2	1980.4	1974.2	1974.2	1995.9
37.5°	1763.5	1757.3	1744.9	1726.3	1760.4	1744.9	1738.7	1757.3	1738.7	1744.9	1760.4
40°	1503.1	1500.0	1490.7	1469.0	1506.2	1490.7	1481.4	1506.2	1481.4	1490.7	1506.2
42.5°	1230.4	1224.2	1214.9	1211.8	1230.4	1218.0	1227.3	1227.3	1227.3	1218.0	1230.4
45°	948.4	942.2	936.0	923.6	945.3	939.1	936.0	942.2	936.0	939.1	945.3
47.5°	688.0	681.8	675.6	666.3	688.0	678.7	678.7	684.9	678.7	678.7	688.0
50°	461.8	464.9	461.8	455.6	461.8	458.7	461.8	468.0	461.8	458.7	461.8
52.5°	306.8	306.8	300.6	297.5	303.7	300.6	309.9	303.7	309.9	300.6	303.7
55°	186.0	189.1	186.0	182.9	186.0	182.9	192.2	189.1	192.2	182.9	186.0
57.5°	105.4	105.4	108.5	105.4	111.6	108.5	108.5	108.5	108.5	108.5	111.6
60°	58.9	58.9	58.9	58.9	58.9	58.9	62.0	58.9	62.0	58.9	58.9
62.5°	40.3	40.3	40.3	37.2	40.3	37.2	40.3	40.3	40.3	37.2	40.3
65°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
67.5°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
70°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
72.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
75°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
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	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: P212845

CATALOG NUMBER: LD6B50D010TE EU6B30509050 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2711.8	2680.8	2696.3	2727.3	2683.9	2721.1	2699.4	2662.2	2662.2	2690.1	2696.3
5°	2745.9	2724.2	2736.6	2764.5	2721.1	2758.3	2733.5	2696.3	2693.2	2721.1	2730.4
7.5°	2776.9	2755.2	2770.7	2798.6	2752.1	2789.3	2767.6	2727.3	2721.1	2749.0	2758.3
10°	2786.2	2767.6	2780.0	2811.0	2764.5	2798.6	2783.1	2739.7	2736.6	2758.3	2770.7
12.5°	2801.7	2786.2	2801.7	2832.7	2786.2	2820.3	2804.8	2761.4	2755.2	2783.1	2792.4
15°	2832.7	2817.2	2835.8	2863.7	2820.3	2848.2	2832.7	2789.3	2786.2	2807.9	2820.3
17.5°	2835.8	2823.4	2842.0	2863.7	2820.3	2848.2	2835.8	2789.3	2786.2	2811.0	2820.3
20°	2786.2	2786.2	2801.7	2823.4	2776.9	2804.8	2792.4	2745.9	2745.9	2767.6	2776.9
22.5°	2714.9	2718.0	2733.5	2752.1	2705.6	2733.5	2721.1	2674.6	2677.7	2696.3	2708.7
25°	2621.9	2628.1	2640.5	2659.1	2615.7	2640.5	2621.9	2584.7	2581.6	2603.3	2618.8
27.5°	2501.1	2510.4	2522.8	2538.3	2498.0	2516.6	2504.2	2467.0	2463.9	2485.6	2501.1
30°	2349.2	2361.6	2374.0	2383.3	2346.1	2364.7	2349.2	2315.1	2315.1	2333.7	2343.0
32.5°	2169.5	2181.8	2197.3	2203.5	2166.4	2188.0	2175.7	2138.5	2138.5	2157.1	2175.7
35°	1955.6	1977.3	1986.6	1995.9	1958.7	1971.1	1977.3	1927.7	1933.9	1949.4	1974.2
37.5°	1726.3	1744.9	1757.3	1763.5	1729.4	1741.8	1744.9	1701.5	1707.7	1720.1	1748.0
40°	1469.0	1490.7	1500.0	1503.1	1478.3	1487.6	1490.7	1447.3	1456.6	1465.9	1487.6
42.5°	1211.8	1214.9	1224.2	1230.4	1208.7	1211.8	1218.0	1177.7	1190.1	1193.2	1214.9
45°	923.6	936.0	942.2	948.4	929.8	936.0	936.0	908.1	911.2	917.4	936.0
47.5°	666.3	675.6	681.8	688.0	672.5	678.7	678.7	650.8	660.1	663.2	675.6
50°	455.6	461.8	464.9	461.8	461.8	461.8	461.8	446.3	455.6	446.3	461.8
52.5°	297.5	300.6	306.8	306.8	297.5	303.7	303.7	291.3	294.4	294.4	303.7
55°	182.9	186.0	189.1	186.0	182.9	186.0	186.0	179.8	186.0	179.8	189.1
57.5°	105.4	108.5	105.4	105.4	105.4	105.4	105.4	105.4	105.4	102.3	108.5
60°	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	62.0
62.5°	37.2	40.3	40.3	40.3	40.3	40.3	40.3	37.2	40.3	40.3	40.3
65°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	34.1
67.5°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	27.9
70°	18.6	18.6	18.6	18.6	18.6	18.6	21.7	21.7	18.6	21.7	21.7
72.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
75°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	12.4
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: P212845

CATALOG NUMBER: LD6B50D010TE EU6B30509050 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2693.2	2668.4	2668.4	2640.5	2665.3	2668.4	2637.4	2628.1	2662.2	2625.0	2643.6
5°	2718.0	2693.2	2693.2	2665.3	2683.9	2683.9	2652.9	2637.4	2671.5	2634.3	2649.8
7.5°	2749.0	2721.1	2714.9	2687.0	2702.5	2705.6	2668.4	2646.7	2680.8	2637.4	2652.9
10°	2758.3	2727.3	2724.2	2696.3	2708.7	2711.8	2668.4	2649.8	2677.7	2631.2	2640.5
12.5°	2780.0	2745.9	2745.9	2718.0	2727.3	2727.3	2683.9	2659.1	2683.9	2637.4	2643.6
15°	2804.8	2767.6	2767.6	2739.7	2745.9	2749.0	2696.3	2671.5	2693.2	2643.6	2649.8
17.5°	2804.8	2764.5	2764.5	2739.7	2742.8	2739.7	2690.1	2662.2	2677.7	2625.0	2628.1
20°	2761.4	2721.1	2727.3	2699.4	2702.5	2699.4	2646.7	2618.8	2634.3	2578.5	2584.7
22.5°	2690.1	2652.9	2659.1	2634.3	2634.3	2631.2	2581.6	2553.8	2569.3	2513.5	2516.6
25°	2600.2	2563.1	2569.3	2544.5	2547.6	2547.6	2498.0	2467.0	2482.5	2432.9	2432.9
27.5°	2482.5	2445.3	2454.6	2439.1	2429.8	2432.9	2389.5	2358.5	2374.0	2327.5	2327.5
30°	2330.6	2299.6	2308.9	2296.5	2287.2	2287.2	2250.0	2219.0	2234.5	2194.2	2191.1
32.5°	2150.9	2126.1	2135.4	2126.1	2116.8	2126.1	2085.8	2054.8	2070.3	2039.3	2042.4
35°	1955.6	1930.8	1937.0	1927.7	1921.5	1927.7	1887.4	1865.7	1881.2	1850.2	1862.6
37.5°	1738.7	1695.3	1713.9	1707.7	1701.5	1704.6	1667.4	1651.9	1670.5	1651.9	1661.2
40°	1484.5	1453.5	1465.9	1459.7	1453.5	1469.0	1441.1	1419.4	1434.9	1422.5	1441.1
42.5°	1208.7	1183.9	1199.4	1196.3	1187.0	1205.6	1183.9	1168.4	1193.2	1187.0	1202.5
45°	929.8	911.2	923.6	923.6	920.5	936.0	914.3	917.4	942.2	951.5	970.1
47.5°	672.5	644.6	660.1	669.4	669.4	684.9	672.5	684.9	712.8	731.4	746.9
50°	458.7	452.5	455.6	458.7	464.9	477.3	474.2	492.8	511.4	542.4	561.0
52.5°	303.7	297.5	303.7	306.8	313.0	325.4	325.4	347.1	368.8	396.7	418.4
55°	189.1	186.0	189.1	192.2	198.3	210.7	213.8	235.5	257.2	285.1	303.7
57.5°	108.5	111.6	111.6	117.8	120.9	130.2	139.5	151.9	176.7	204.5	223.1
60°	62.0	62.0	65.1	68.2	71.3	80.6	86.8	99.2	117.8	145.7	158.1
62.5°	40.3	40.3	43.4	43.4	46.5	52.7	58.9	71.3	86.8	108.5	120.9
65°	34.1	34.1	34.1	37.2	37.2	43.4	49.6	58.9	71.3	86.8	99.2
67.5°	27.9	27.9	27.9	31.0	31.0	34.1	40.3	46.5	55.8	68.2	77.5
70°	21.7	21.7	21.7	24.8	24.8	27.9	31.0	34.1	43.4	52.7	58.9
72.5°	15.5	15.5	18.6	18.6	18.6	21.7	24.8	27.9	34.1	40.3	43.4
75°	12.4	12.4	12.4	12.4	15.5	15.5	18.6	21.7	24.8	27.9	31.0
77.5°	6.2	6.2	9.3	9.3	9.3	12.4	12.4	15.5	18.6	21.7	21.7
80°	6.2	6.2	6.2	6.2	6.2	9.3	9.3	9.3	12.4	15.5	15.5
82.5°	3.1	3.1	3.1	3.1	3.1	6.2	6.2	6.2	9.3	9.3	9.3
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: P212845

CATALOG NUMBER: LD6B50D010TE EU6B30509050 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2621.9	2631.2	2631.2	2621.9	2597.1	2618.8	2640.5	2618.8	2646.7	2597.1	2597.1
5°	2621.9	2628.1	2625.0	2612.6	2587.8	2606.4	2621.9	2600.2	2621.9	2575.4	2572.4
7.5°	2628.1	2621.9	2615.7	2600.2	2569.3	2581.6	2597.1	2572.4	2594.0	2544.5	2538.3
10°	2615.7	2606.4	2594.0	2572.4	2538.3	2547.6	2556.9	2535.2	2550.7	2501.1	2498.0
12.5°	2615.7	2600.2	2581.6	2556.9	2519.7	2525.9	2535.2	2507.3	2519.7	2473.2	2467.0
15°	2621.9	2594.0	2572.4	2544.5	2504.2	2507.3	2513.5	2482.5	2494.9	2445.3	2442.2
17.5°	2600.2	2569.3	2547.6	2513.5	2470.1	2473.2	2473.2	2442.2	2451.5	2401.9	2398.8
20°	2553.8	2516.6	2491.8	2460.8	2414.3	2414.3	2414.3	2383.3	2389.5	2346.1	2339.9
22.5°	2488.7	2448.4	2423.6	2392.6	2349.2	2346.1	2343.0	2318.2	2318.2	2277.9	2268.6
25°	2401.9	2364.7	2339.9	2312.0	2268.6	2262.4	2262.4	2240.7	2237.6	2200.4	2194.2
27.5°	2302.7	2259.3	2237.6	2212.8	2172.6	2166.4	2163.3	2150.9	2144.7	2104.4	2101.3
30°	2169.5	2132.3	2113.7	2092.0	2054.8	2048.6	2045.5	2033.1	2030.0	1989.7	1989.7
32.5°	2026.9	1980.4	1968.0	1946.3	1918.4	1915.3	1918.4	1902.9	1890.5	1862.6	1856.4
35°	1856.4	1809.9	1800.6	1791.3	1769.7	1763.5	1760.4	1757.3	1741.8	1723.2	1713.9
37.5°	1658.1	1617.8	1617.8	1614.7	1599.2	1599.2	1599.2	1593.0	1577.5	1571.3	1552.7
40°	1444.2	1413.2	1416.3	1419.4	1413.2	1416.3	1419.4	1413.2	1400.8	1394.6	1379.2
42.5°	1214.9	1199.4	1211.8	1221.1	1221.1	1230.4	1236.6	1236.6	1221.1	1218.0	1205.6
45°	985.6	982.5	1007.2	1025.8	1032.0	1047.5	1056.8	1050.6	1050.6	1050.6	1038.2
47.5°	771.7	784.1	805.8	843.0	855.4	874.0	880.2	889.5	886.4	889.5	880.2
50°	585.8	613.6	641.5	678.7	697.3	719.0	728.3	740.7	740.7	743.8	737.6
52.5°	443.2	464.9	511.4	536.2	557.9	579.6	592.0	604.3	607.4	607.4	601.2
55°	328.5	359.5	390.5	424.6	443.2	464.9	474.2	486.6	486.6	492.8	486.6
57.5°	238.6	269.6	303.7	328.5	350.2	365.7	375.0	384.3	390.5	390.5	387.4
60°	176.7	201.4	229.3	254.1	272.7	288.2	294.4	303.7	306.8	306.8	300.6
62.5°	133.3	158.1	182.9	204.5	216.9	229.3	235.5	241.7	241.7	241.7	238.6
65°	108.5	127.1	145.7	164.3	176.7	186.0	189.1	195.3	192.2	195.3	192.2
67.5°	86.8	99.2	114.7	127.1	136.4	142.6	145.7	151.9	148.8	151.9	148.8
70°	65.1	77.5	86.8	96.1	102.3	108.5	111.6	114.7	111.6	114.7	111.6
72.5°	49.6	55.8	65.1	74.4	77.5	80.6	83.7	83.7	83.7	86.8	83.7
75°	34.1	40.3	46.5	49.6	55.8	58.9	58.9	62.0	62.0	62.0	62.0
77.5°	24.8	27.9	31.0	34.1	37.2	40.3	40.3	43.4	43.4	43.4	43.4
80°	15.5	18.6	18.6	21.7	24.8	24.8	27.9	27.9	27.9	27.9	27.9
82.5°	9.3	12.4	12.4	15.5	15.5	15.5	18.6	18.6	18.6	18.6	18.6
85°	6.2	6.2	6.2	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
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: P212845

CATALOG NUMBER: LD6B50D010TE EU6B30509050 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2662.2	2662.2	2662.2	2662.2
2.5°	2621.9	2606.4	2631.2	2594.0
5°	2594.0	2578.5	2609.5	2563.1
7.5°	2560.0	2544.5	2572.4	2525.9
10°	2516.6	2501.1	2525.9	2476.3
12.5°	2479.4	2463.9	2491.8	2445.3
15°	2451.5	2436.0	2460.8	2417.4
17.5°	2408.1	2389.5	2417.4	2370.9
20°	2346.1	2333.7	2355.4	2308.9
22.5°	2274.8	2262.4	2287.2	2240.7
25°	2200.4	2184.9	2209.7	2163.3
27.5°	2104.4	2092.0	2116.8	2070.3
30°	1989.7	1977.3	2002.1	1958.7
32.5°	1859.5	1847.1	1865.7	1828.5
35°	1710.8	1701.5	1720.1	1679.8
37.5°	1549.6	1540.3	1558.9	1518.6
40°	1376.1	1366.8	1382.3	1363.7
42.5°	1205.6	1196.3	1211.8	1196.3
45°	1038.2	1032.0	1047.5	1032.0
47.5°	883.3	877.1	892.6	877.1
50°	734.5	737.6	743.8	737.6
52.5°	601.2	601.2	610.5	601.2
55°	486.6	489.7	492.8	486.6
57.5°	387.4	387.4	390.5	387.4
60°	300.6	303.7	303.7	300.6
62.5°	238.6	238.6	238.6	238.6
65°	189.1	189.1	192.2	189.1
67.5°	148.8	145.7	148.8	145.7
70°	111.6	111.6	111.6	111.6
72.5°	86.8	86.8	83.7	83.7
75°	62.0	65.1	62.0	62.0
77.5°	43.4	43.4	43.4	43.4
80°	27.9	27.9	27.9	27.9
82.5°	18.6	18.6	18.6	18.6
85°	12.4	9.3	9.3	9.3
87.5°	6.2	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0



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





















(END OF REPORT)