

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: P212842

Luminaire Tested: **LD6B50D010TE EU6B30509030 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212842
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 EU6B30509030 6LBSWL11
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4361.7 lumens
Efficiency: N/A
Efficacy: 74.2 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

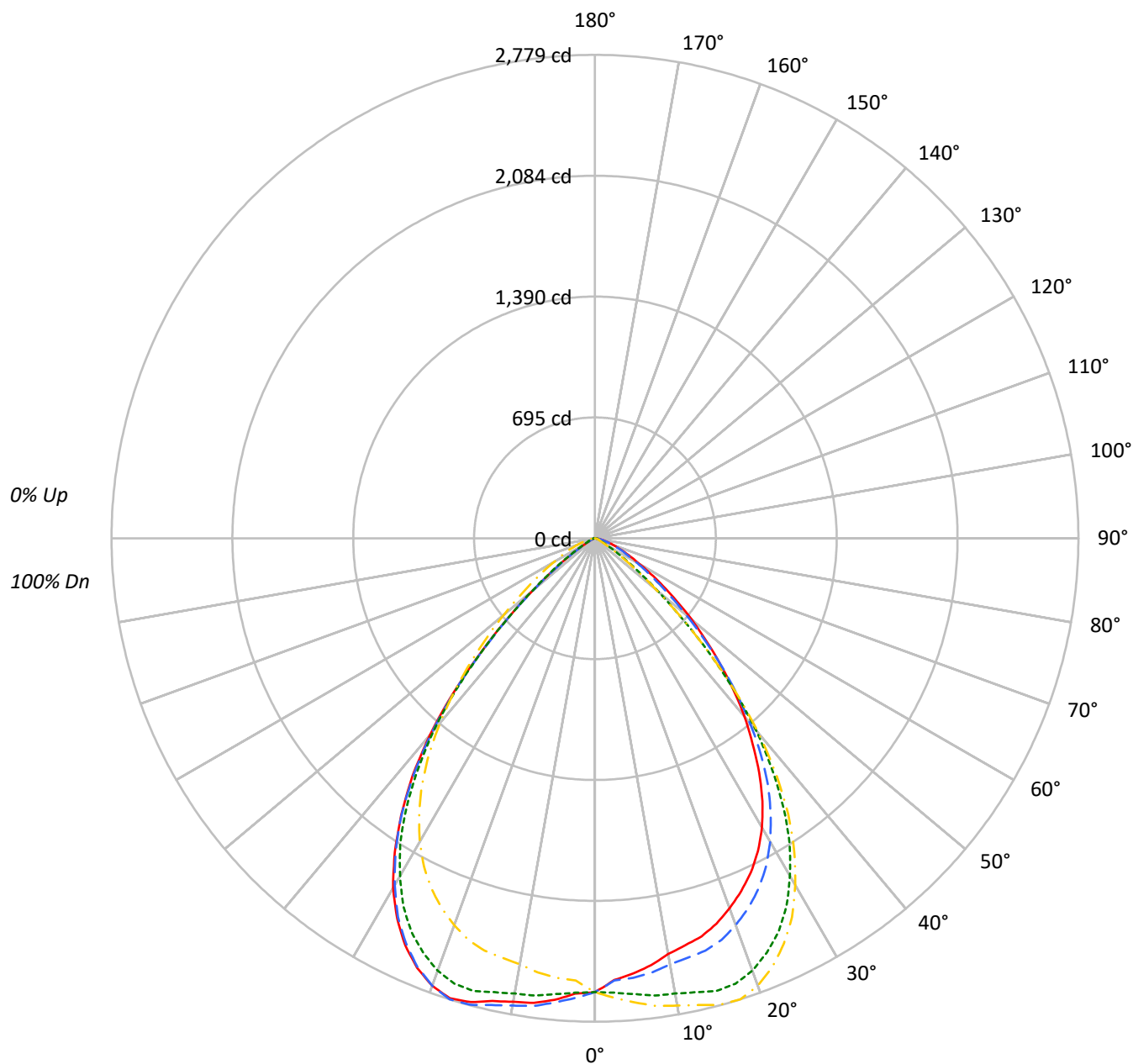
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	112	109	106	103	110	107	104	102	103	100	99	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	71	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°	143015	143015	143015	143015
5°	138212	144733	146571	144733
10°	135079	147926	150632	147926
15°	134445	152890	156681	152890
20°	131996	154323	159637	154323
25°	128227	151007	156148	151007
30°	121500	141876	146877	141876
35°	110162	126418	129878	126418
40°	95629	103022	105626	103022
45°	78403	71108	71581	71108
50°	61644	39888	39112	39888
55°	45571	19736	17710	19736
60°	32300	8662	6326	8662
65°	24036	5513	3943	5513
70°	17519	4376	2917	4376
75°	12857	3219	1927	3219
80°	8619	2873	947	2873
85°	5724	1887	1887	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	5.7
10°-20°	739.7	17.0
20°-30°	1103.8	25.3
30°-40°	1134.1	26.0
40°-50°	734.4	16.8
50°-60°	273.1	6.3
60°-70°	89.6	2.1
70°-80°	31.6	0.7
80°-90°	5.7	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°	2093.3	48.0
0°-40°	3227.4	74.0
0°-60°	4234.9	97.1
0°-90°	4361.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4361.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2609	2609	2609	2609	2609	
5°	2512	2630	2664	2630	2512	237
15°	2369	2694	2761	2694	2369	666
25°	2120	2496	2582	2496	2120	972
35°	1646	1889	1941	1889	1646	1022
45°	1011	917	923	917	1011	782
55°	477	206	185	206	477	435
65°	185	42	30	42	185	188
75°	61	15	9	15	61	67
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°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2542.0	2578.5	2554.2	2569.3	2545.0	2545.0	2593.6	2566.3	2587.6	2566.3	2545.0
5°	2511.6	2557.2	2526.8	2542.0	2520.7	2523.8	2569.3	2548.1	2569.3	2554.2	2535.9
7.5°	2475.2	2520.7	2493.4	2508.6	2487.3	2493.4	2542.0	2520.7	2545.0	2529.9	2517.7
10°	2426.6	2475.2	2450.9	2466.1	2447.9	2450.9	2499.5	2484.3	2505.6	2496.5	2487.3
12.5°	2396.2	2441.8	2414.5	2429.6	2417.5	2423.6	2469.1	2457.0	2484.3	2475.2	2469.1
15°	2368.9	2411.4	2387.1	2402.3	2393.2	2396.2	2444.8	2432.7	2463.0	2457.0	2453.9
17.5°	2323.3	2368.9	2341.6	2359.8	2350.7	2353.7	2402.3	2393.2	2423.6	2423.6	2420.5
20°	2262.6	2308.2	2286.9	2299.0	2293.0	2299.0	2341.6	2335.5	2365.9	2365.9	2365.9
22.5°	2195.8	2241.3	2217.0	2229.2	2223.1	2232.2	2271.7	2271.7	2296.0	2299.0	2302.1
25°	2119.9	2165.4	2141.1	2156.3	2150.2	2156.3	2192.7	2195.8	2217.0	2217.0	2223.1
27.5°	2028.7	2074.3	2050.0	2062.2	2059.1	2062.2	2101.6	2107.7	2119.9	2122.9	2129.0
30°	1919.4	1961.9	1937.6	1949.8	1949.8	1949.8	1989.3	1992.3	2004.5	2007.5	2013.6
32.5°	1791.9	1828.3	1810.1	1822.2	1819.2	1825.3	1852.6	1864.7	1879.9	1876.9	1879.9
35°	1646.1	1685.6	1667.3	1676.4	1679.5	1688.6	1706.8	1722.0	1725.0	1728.1	1734.2
37.5°	1488.2	1527.6	1509.4	1518.5	1521.6	1539.8	1545.9	1561.0	1567.1	1567.1	1567.1
40°	1336.3	1354.5	1339.3	1348.4	1351.5	1366.7	1372.7	1384.9	1391.0	1387.9	1384.9
42.5°	1172.3	1187.5	1172.3	1181.4	1181.4	1193.6	1196.6	1211.8	1211.8	1205.7	1196.6
45°	1011.3	1026.5	1011.3	1017.4	1017.4	1029.6	1029.6	1029.6	1035.6	1026.5	1011.3
47.5°	859.5	874.7	859.5	865.6	862.5	871.6	868.6	871.6	862.5	856.4	838.2
50°	722.8	728.9	722.8	719.8	722.8	728.9	725.9	725.9	713.7	704.6	683.3
52.5°	589.2	598.3	589.2	589.2	589.2	595.3	595.3	592.2	580.1	567.9	546.7
55°	476.8	482.9	479.9	476.8	476.8	482.9	476.8	476.8	464.7	455.6	434.3
57.5°	379.6	382.7	379.6	379.6	379.6	382.7	382.7	376.6	367.5	358.4	343.2
60°	294.6	297.6	297.6	294.6	294.6	300.7	300.7	297.6	288.5	282.4	267.3
62.5°	233.9	233.9	233.9	233.9	233.9	236.9	236.9	236.9	230.8	224.7	212.6
65°	185.3	188.3	185.3	185.3	188.3	191.3	188.3	191.3	185.3	182.2	173.1
67.5°	142.7	145.8	142.7	145.8	145.8	148.8	145.8	148.8	142.7	139.7	133.6
70°	109.3	109.3	109.3	109.3	109.3	112.4	109.3	112.4	109.3	106.3	100.2
72.5°	82.0	82.0	85.0	85.0	82.0	85.0	82.0	82.0	82.0	79.0	75.9
75°	60.7	60.7	63.8	60.7	60.7	60.7	60.7	60.7	57.7	57.7	54.7
77.5°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	39.5	39.5	36.4
80°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	24.3	24.3
82.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	15.2	15.2
85°	9.1	9.1	9.1	12.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
87.5°	3.0	3.0	3.0	6.1	3.0	3.0	6.1	6.1	3.0	3.0	3.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2569.3	2578.5	2578.5	2569.3	2590.6	2572.4	2608.8	2575.4	2584.5	2614.9	2611.9
5°	2560.2	2572.4	2575.4	2569.3	2596.7	2581.5	2617.9	2584.5	2599.7	2630.1	2630.1
7.5°	2548.1	2563.3	2569.3	2575.4	2599.7	2584.5	2627.0	2593.6	2614.9	2651.3	2648.3
10°	2520.7	2542.0	2554.2	2563.3	2587.6	2578.5	2624.0	2596.7	2614.9	2657.4	2654.4
12.5°	2505.6	2529.9	2548.1	2563.3	2590.6	2584.5	2630.1	2605.8	2630.1	2672.6	2672.6
15°	2493.4	2520.7	2542.0	2569.3	2596.7	2590.6	2639.2	2617.9	2642.2	2693.9	2690.8
17.5°	2463.0	2496.5	2517.7	2548.1	2575.4	2572.4	2624.0	2608.8	2636.2	2684.7	2687.8
20°	2411.4	2441.8	2466.1	2502.5	2532.9	2526.8	2581.5	2566.3	2593.6	2645.3	2648.3
22.5°	2344.6	2375.0	2399.3	2438.7	2466.1	2463.0	2517.7	2502.5	2529.9	2578.5	2581.5
25°	2265.6	2293.0	2317.3	2353.7	2384.1	2384.1	2432.7	2417.5	2447.9	2496.5	2496.5
27.5°	2168.5	2192.7	2214.0	2256.5	2280.8	2280.8	2326.4	2311.2	2341.6	2384.1	2381.0
30°	2050.0	2071.3	2089.5	2125.9	2147.2	2150.2	2189.7	2174.5	2204.9	2241.3	2241.3
32.5°	1907.3	1928.5	1940.7	1986.2	2001.4	1998.4	2028.7	2013.6	2043.9	2083.4	2074.3
35°	1755.4	1764.5	1773.6	1819.2	1825.3	1813.1	1843.5	1828.3	1849.6	1889.0	1883.0
37.5°	1582.3	1585.3	1585.3	1624.8	1627.9	1618.7	1637.0	1618.7	1633.9	1670.4	1667.3
40°	1391.0	1387.9	1384.9	1415.3	1412.2	1394.0	1406.2	1391.0	1412.2	1439.6	1424.4
42.5°	1196.6	1187.5	1175.3	1190.5	1178.4	1163.2	1169.3	1145.0	1160.2	1181.4	1163.2
45°	1005.3	987.0	962.7	965.8	950.6	932.4	923.3	899.0	895.9	917.2	902.0
47.5°	826.1	789.6	768.4	756.2	731.9	716.7	698.5	671.2	659.0	671.2	656.0
50°	665.1	628.7	601.3	574.0	549.7	531.5	501.1	482.9	464.7	467.7	455.6
52.5°	525.4	501.1	455.6	434.3	410.0	388.7	361.4	340.1	318.9	318.9	306.7
55°	416.1	382.7	352.3	321.9	297.6	279.4	252.1	230.8	209.6	206.5	194.4
57.5°	321.9	297.6	264.2	233.9	218.7	200.4	173.1	148.8	136.7	127.6	118.4
60°	249.0	224.7	197.4	173.1	154.9	142.7	115.4	97.2	85.0	79.0	69.9
62.5°	200.4	179.2	154.9	130.6	118.4	106.3	85.0	69.9	57.7	51.6	45.6
65°	161.0	142.7	124.5	106.3	97.2	85.0	69.9	57.7	48.6	42.5	36.4
67.5°	124.5	112.4	97.2	85.0	75.9	66.8	54.7	45.6	39.5	33.4	30.4
70°	94.1	85.0	75.9	63.8	57.7	51.6	42.5	33.4	30.4	27.3	24.3
72.5°	72.9	63.8	54.7	48.6	42.5	39.5	33.4	27.3	24.3	21.3	18.2
75°	48.6	45.6	39.5	33.4	30.4	27.3	24.3	21.3	18.2	15.2	15.2
77.5°	33.4	30.4	27.3	24.3	21.3	21.3	18.2	15.2	12.1	12.1	9.1
80°	21.3	18.2	18.2	15.2	15.2	15.2	12.1	9.1	9.1	9.1	6.1
82.5°	15.2	12.1	12.1	9.1	9.1	9.1	9.1	6.1	6.1	6.1	3.0
85°	9.1	6.1	6.1	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2587.6	2614.9	2614.9	2639.2	2642.2	2636.2	2608.8	2608.8	2645.3	2666.5	2630.1
5°	2611.9	2639.2	2639.2	2663.5	2675.6	2666.5	2639.2	2642.2	2678.7	2703.0	2666.5
7.5°	2633.1	2660.5	2666.5	2693.9	2703.0	2693.9	2666.5	2672.6	2712.1	2733.3	2696.9
10°	2642.2	2669.6	2672.6	2703.0	2715.1	2703.0	2681.7	2684.7	2727.3	2742.5	2709.0
12.5°	2663.5	2690.8	2690.8	2724.2	2736.4	2727.3	2699.9	2706.0	2748.5	2763.7	2730.3
15°	2684.7	2712.1	2712.1	2748.5	2763.7	2751.6	2730.3	2733.3	2775.9	2791.0	2763.7
17.5°	2684.7	2709.0	2709.0	2748.5	2763.7	2754.6	2730.3	2733.3	2778.9	2791.0	2763.7
20°	2645.3	2672.6	2666.5	2706.0	2721.2	2712.1	2690.8	2690.8	2736.4	2748.5	2721.2
22.5°	2581.5	2605.8	2599.7	2636.2	2654.4	2642.2	2624.0	2621.0	2666.5	2678.7	2651.3
25°	2493.4	2517.7	2511.6	2548.1	2566.3	2551.1	2529.9	2532.9	2569.3	2587.6	2563.3
27.5°	2390.2	2405.3	2396.2	2432.7	2450.9	2435.7	2414.5	2417.5	2453.9	2466.1	2447.9
30°	2250.5	2262.6	2253.5	2283.9	2296.0	2286.9	2268.7	2268.7	2302.1	2317.3	2299.0
32.5°	2083.4	2092.5	2083.4	2107.7	2132.0	2113.8	2095.6	2095.6	2132.0	2144.2	2122.9
35°	1889.0	1898.2	1892.1	1916.4	1934.6	1910.3	1895.1	1889.0	1937.6	1931.6	1919.4
37.5°	1673.4	1679.5	1661.3	1703.8	1712.9	1685.6	1673.4	1667.3	1709.9	1706.8	1694.7
40°	1430.4	1436.5	1424.4	1454.7	1457.8	1436.5	1427.4	1418.3	1460.8	1457.8	1448.7
42.5°	1172.3	1175.3	1160.2	1184.4	1190.5	1169.3	1166.2	1154.1	1193.6	1187.5	1184.4
45°	905.0	905.0	892.9	911.1	917.2	899.0	892.9	889.9	917.2	917.2	911.1
47.5°	656.0	646.9	631.7	659.0	662.1	649.9	646.9	637.8	665.1	665.1	659.0
50°	449.5	446.4	443.4	449.5	452.5	437.3	446.4	437.3	452.5	452.5	452.5
52.5°	300.7	297.6	291.6	297.6	297.6	288.5	288.5	285.5	297.6	297.6	291.6
55°	188.3	185.3	182.2	185.3	185.3	176.1	182.2	176.1	182.2	182.2	179.2
57.5°	115.4	109.3	109.3	106.3	106.3	100.2	103.3	103.3	103.3	103.3	103.3
60°	66.8	63.8	60.7	60.7	60.7	57.7	57.7	57.7	57.7	57.7	57.7
62.5°	42.5	42.5	39.5	39.5	39.5	39.5	39.5	36.4	39.5	39.5	39.5
65°	36.4	33.4	33.4	33.4	33.4	30.4	30.4	30.4	30.4	30.4	30.4
67.5°	30.4	27.3	27.3	27.3	27.3	24.3	24.3	24.3	24.3	24.3	24.3
70°	24.3	21.3	21.3	21.3	21.3	21.3	18.2	21.3	21.3	18.2	18.2
72.5°	18.2	18.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
75°	12.1	12.1	12.1	12.1	12.1	9.1	9.1	9.1	9.1	9.1	9.1
77.5°	9.1	9.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	6.1	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	3.0	3.0	3.0	3.0	3.0	0.0	3.0	0.0	3.0	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: P212842

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2672.6	2642.2	2627.0	2657.4	2669.6	2654.4	2642.2	2621.0	2642.2	2654.4	2669.6
5°	2709.0	2681.7	2669.6	2690.8	2709.0	2693.9	2684.7	2663.5	2684.7	2693.9	2709.0
7.5°	2742.5	2715.1	2699.9	2721.2	2742.5	2721.2	2712.1	2693.9	2712.1	2721.2	2742.5
10°	2754.6	2724.2	2712.1	2730.3	2751.6	2730.3	2718.2	2706.0	2718.2	2730.3	2751.6
12.5°	2775.9	2745.5	2730.3	2745.5	2766.7	2745.5	2733.3	2724.2	2733.3	2745.5	2766.7
15°	2806.2	2778.9	2760.7	2775.9	2803.2	2778.9	2763.7	2760.7	2763.7	2778.9	2803.2
17.5°	2806.2	2785.0	2766.7	2778.9	2806.2	2788.0	2766.7	2772.8	2766.7	2788.0	2806.2
20°	2766.7	2745.5	2730.3	2730.3	2769.8	2745.5	2727.3	2736.4	2727.3	2745.5	2769.8
22.5°	2696.9	2678.7	2663.5	2660.5	2699.9	2678.7	2654.4	2672.6	2654.4	2678.7	2699.9
25°	2605.8	2587.6	2575.4	2569.3	2608.8	2584.5	2563.3	2581.5	2563.3	2584.5	2608.8
27.5°	2487.3	2472.2	2460.0	2450.9	2487.3	2466.1	2444.8	2463.0	2444.8	2466.1	2487.3
30°	2335.5	2326.4	2314.2	2302.1	2338.5	2317.3	2296.0	2320.3	2296.0	2317.3	2338.5
32.5°	2159.3	2153.3	2138.1	2125.9	2162.4	2138.1	2122.9	2141.1	2122.9	2138.1	2162.4
35°	1955.9	1946.7	1937.6	1916.4	1955.9	1934.6	1934.6	1940.7	1934.6	1934.6	1955.9
37.5°	1728.1	1722.0	1709.9	1691.6	1725.0	1709.9	1703.8	1722.0	1703.8	1709.9	1725.0
40°	1473.0	1469.9	1460.8	1439.6	1476.0	1460.8	1451.7	1476.0	1451.7	1460.8	1476.0
42.5°	1205.7	1199.6	1190.5	1187.5	1205.7	1193.6	1202.7	1202.7	1202.7	1193.6	1205.7
45°	929.3	923.3	917.2	905.0	926.3	920.2	917.2	923.3	917.2	920.2	926.3
47.5°	674.2	668.2	662.1	653.0	674.2	665.1	665.1	671.2	665.1	665.1	674.2
50°	452.5	455.6	452.5	446.4	452.5	449.5	452.5	458.6	452.5	449.5	452.5
52.5°	300.7	300.7	294.6	291.6	297.6	294.6	303.7	297.6	303.7	294.6	297.6
55°	182.2	185.3	182.2	179.2	182.2	179.2	188.3	185.3	188.3	179.2	182.2
57.5°	103.3	103.3	106.3	103.3	109.3	106.3	106.3	106.3	106.3	106.3	109.3
60°	57.7	57.7	57.7	57.7	57.7	57.7	60.7	57.7	60.7	57.7	57.7
62.5°	39.5	39.5	39.5	36.4	39.5	36.4	39.5	39.5	39.5	36.4	39.5
65°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
67.5°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
70°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
72.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	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: P212842

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2657.4	2627.0	2642.2	2672.6	2630.1	2666.5	2645.3	2608.8	2608.8	2636.2	2642.2
5°	2690.8	2669.6	2681.7	2709.0	2666.5	2703.0	2678.7	2642.2	2639.2	2666.5	2675.6
7.5°	2721.2	2699.9	2715.1	2742.5	2696.9	2733.3	2712.1	2672.6	2666.5	2693.9	2703.0
10°	2730.3	2712.1	2724.2	2754.6	2709.0	2742.5	2727.3	2684.7	2681.7	2703.0	2715.1
12.5°	2745.5	2730.3	2745.5	2775.9	2730.3	2763.7	2748.5	2706.0	2699.9	2727.3	2736.4
15°	2775.9	2760.7	2778.9	2806.2	2763.7	2791.0	2775.9	2733.3	2730.3	2751.6	2763.7
17.5°	2778.9	2766.7	2785.0	2806.2	2763.7	2791.0	2778.9	2733.3	2730.3	2754.6	2763.7
20°	2730.3	2730.3	2745.5	2766.7	2721.2	2748.5	2736.4	2690.8	2690.8	2712.1	2721.2
22.5°	2660.5	2663.5	2678.7	2696.9	2651.3	2678.7	2666.5	2621.0	2624.0	2642.2	2654.4
25°	2569.3	2575.4	2587.6	2605.8	2563.3	2587.6	2569.3	2532.9	2529.9	2551.1	2566.3
27.5°	2450.9	2460.0	2472.2	2487.3	2447.9	2466.1	2453.9	2417.5	2414.5	2435.7	2450.9
30°	2302.1	2314.2	2326.4	2335.5	2299.0	2317.3	2302.1	2268.7	2268.7	2286.9	2296.0
32.5°	2125.9	2138.1	2153.3	2159.3	2122.9	2144.2	2132.0	2095.6	2095.6	2113.8	2132.0
35°	1916.4	1937.6	1946.7	1955.9	1919.4	1931.6	1937.6	1889.0	1895.1	1910.3	1934.6
37.5°	1691.6	1709.9	1722.0	1728.1	1694.7	1706.8	1709.9	1667.3	1673.4	1685.6	1712.9
40°	1439.6	1460.8	1469.9	1473.0	1448.7	1457.8	1460.8	1418.3	1427.4	1436.5	1457.8
42.5°	1187.5	1190.5	1199.6	1205.7	1184.4	1187.5	1193.6	1154.1	1166.2	1169.3	1190.5
45°	905.0	917.2	923.3	929.3	911.1	917.2	917.2	889.9	892.9	899.0	917.2
47.5°	653.0	662.1	668.2	674.2	659.0	665.1	665.1	637.8	646.9	649.9	662.1
50°	446.4	452.5	455.6	452.5	452.5	452.5	452.5	437.3	446.4	437.3	452.5
52.5°	291.6	294.6	300.7	300.7	291.6	297.6	297.6	285.5	288.5	288.5	297.6
55°	179.2	182.2	185.3	182.2	179.2	182.2	182.2	176.1	182.2	176.1	185.3
57.5°	103.3	106.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	100.2	106.3
60°	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	60.7
62.5°	36.4	39.5	39.5	39.5	39.5	39.5	39.5	36.4	39.5	39.5	39.5
65°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	33.4
67.5°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	27.3
70°	18.2	18.2	18.2	18.2	18.2	18.2	21.3	21.3	18.2	21.3	21.3
72.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	12.1
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.1
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	3.0	0.0	3.0
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: P212842

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2639.2	2614.9	2614.9	2587.6	2611.9	2614.9	2584.5	2575.4	2608.8	2572.4	2590.6
5°	2663.5	2639.2	2639.2	2611.9	2630.1	2630.1	2599.7	2584.5	2617.9	2581.5	2596.7
7.5°	2693.9	2666.5	2660.5	2633.1	2648.3	2651.3	2614.9	2593.6	2627.0	2584.5	2599.7
10°	2703.0	2672.6	2669.6	2642.2	2654.4	2657.4	2614.9	2596.7	2624.0	2578.5	2587.6
12.5°	2724.2	2690.8	2690.8	2663.5	2672.6	2672.6	2630.1	2605.8	2630.1	2584.5	2590.6
15°	2748.5	2712.1	2712.1	2684.7	2690.8	2693.9	2642.2	2617.9	2639.2	2590.6	2596.7
17.5°	2748.5	2709.0	2709.0	2684.7	2687.8	2684.7	2636.2	2608.8	2624.0	2572.4	2575.4
20°	2706.0	2666.5	2672.6	2645.3	2648.3	2645.3	2593.6	2566.3	2581.5	2526.8	2532.9
22.5°	2636.2	2599.7	2605.8	2581.5	2581.5	2578.5	2529.9	2502.5	2517.7	2463.0	2466.1
25°	2548.1	2511.6	2517.7	2493.4	2496.5	2496.5	2447.9	2417.5	2432.7	2384.1	2384.1
27.5°	2432.7	2396.2	2405.3	2390.2	2381.0	2384.1	2341.6	2311.2	2326.4	2280.8	2280.8
30°	2283.9	2253.5	2262.6	2250.5	2241.3	2241.3	2204.9	2174.5	2189.7	2150.2	2147.2
32.5°	2107.7	2083.4	2092.5	2083.4	2074.3	2083.4	2043.9	2013.6	2028.7	1998.4	2001.4
35°	1916.4	1892.1	1898.2	1889.0	1883.0	1889.0	1849.6	1828.3	1843.5	1813.1	1825.3
37.5°	1703.8	1661.3	1679.5	1673.4	1667.3	1670.4	1633.9	1618.7	1637.0	1618.7	1627.9
40°	1454.7	1424.4	1436.5	1430.4	1424.4	1439.6	1412.2	1391.0	1406.2	1394.0	1412.2
42.5°	1184.4	1160.2	1175.3	1172.3	1163.2	1181.4	1160.2	1145.0	1169.3	1163.2	1178.4
45°	911.1	892.9	905.0	905.0	902.0	917.2	895.9	899.0	923.3	932.4	950.6
47.5°	659.0	631.7	646.9	656.0	656.0	671.2	659.0	671.2	698.5	716.7	731.9
50°	449.5	443.4	446.4	449.5	455.6	467.7	464.7	482.9	501.1	531.5	549.7
52.5°	297.6	291.6	297.6	300.7	306.7	318.9	318.9	340.1	361.4	388.7	410.0
55°	185.3	182.2	185.3	188.3	194.4	206.5	209.6	230.8	252.1	279.4	297.6
57.5°	106.3	109.3	109.3	115.4	118.4	127.6	136.7	148.8	173.1	200.4	218.7
60°	60.7	60.7	63.8	66.8	69.9	79.0	85.0	97.2	115.4	142.7	154.9
62.5°	39.5	39.5	42.5	42.5	45.6	51.6	57.7	69.9	85.0	106.3	118.4
65°	33.4	33.4	33.4	36.4	36.4	42.5	48.6	57.7	69.9	85.0	97.2
67.5°	27.3	27.3	27.3	30.4	30.4	33.4	39.5	45.6	54.7	66.8	75.9
70°	21.3	21.3	21.3	24.3	24.3	27.3	30.4	33.4	42.5	51.6	57.7
72.5°	15.2	15.2	18.2	18.2	18.2	21.3	24.3	27.3	33.4	39.5	42.5
75°	12.1	12.1	12.1	12.1	15.2	15.2	18.2	21.3	24.3	27.3	30.4
77.5°	6.1	6.1	9.1	9.1	9.1	12.1	12.1	15.2	18.2	21.3	21.3
80°	6.1	6.1	6.1	6.1	6.1	9.1	9.1	9.1	12.1	15.2	15.2
82.5°	3.0	3.0	3.0	3.0	3.0	6.1	6.1	6.1	9.1	9.1	9.1
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.1	6.1	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0
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: P212842

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2569.3	2578.5	2578.5	2569.3	2545.0	2566.3	2587.6	2566.3	2593.6	2545.0	2545.0
5°	2569.3	2575.4	2572.4	2560.2	2535.9	2554.2	2569.3	2548.1	2569.3	2523.8	2520.7
7.5°	2575.4	2569.3	2563.3	2548.1	2517.7	2529.9	2545.0	2520.7	2542.0	2493.4	2487.3
10°	2563.3	2554.2	2542.0	2520.7	2487.3	2496.5	2505.6	2484.3	2499.5	2450.9	2447.9
12.5°	2563.3	2548.1	2529.9	2505.6	2469.1	2475.2	2484.3	2457.0	2469.1	2423.6	2417.5
15°	2569.3	2542.0	2520.7	2493.4	2453.9	2457.0	2463.0	2432.7	2444.8	2396.2	2393.2
17.5°	2548.1	2517.7	2496.5	2463.0	2420.5	2423.6	2423.6	2393.2	2402.3	2353.7	2350.7
20°	2502.5	2466.1	2441.8	2411.4	2365.9	2365.9	2365.9	2335.5	2341.6	2299.0	2293.0
22.5°	2438.7	2399.3	2375.0	2344.6	2302.1	2299.0	2296.0	2271.7	2271.7	2232.2	2223.1
25°	2353.7	2317.3	2293.0	2265.6	2223.1	2217.0	2217.0	2195.8	2192.7	2156.3	2150.2
27.5°	2256.5	2214.0	2192.7	2168.5	2129.0	2122.9	2119.9	2107.7	2101.6	2062.2	2059.1
30°	2125.9	2089.5	2071.3	2050.0	2013.6	2007.5	2004.5	1992.3	1989.3	1949.8	1949.8
32.5°	1986.2	1940.7	1928.5	1907.3	1879.9	1876.9	1879.9	1864.7	1852.6	1825.3	1819.2
35°	1819.2	1773.6	1764.5	1755.4	1734.2	1728.1	1725.0	1722.0	1706.8	1688.6	1679.5
37.5°	1624.8	1585.3	1585.3	1582.3	1567.1	1567.1	1567.1	1561.0	1545.9	1539.8	1521.6
40°	1415.3	1384.9	1387.9	1391.0	1384.9	1387.9	1391.0	1384.9	1372.7	1366.7	1351.5
42.5°	1190.5	1175.3	1187.5	1196.6	1196.6	1205.7	1211.8	1211.8	1196.6	1193.6	1181.4
45°	965.8	962.7	987.0	1005.3	1011.3	1026.5	1035.6	1029.6	1029.6	1029.6	1017.4
47.5°	756.2	768.4	789.6	826.1	838.2	856.4	862.5	871.6	868.6	871.6	862.5
50°	574.0	601.3	628.7	665.1	683.3	704.6	713.7	725.9	725.9	728.9	722.8
52.5°	434.3	455.6	501.1	525.4	546.7	567.9	580.1	592.2	595.3	595.3	589.2
55°	321.9	352.3	382.7	416.1	434.3	455.6	464.7	476.8	476.8	482.9	476.8
57.5°	233.9	264.2	297.6	321.9	343.2	358.4	367.5	376.6	382.7	382.7	379.6
60°	173.1	197.4	224.7	249.0	267.3	282.4	288.5	297.6	300.7	300.7	294.6
62.5°	130.6	154.9	179.2	200.4	212.6	224.7	230.8	236.9	236.9	236.9	233.9
65°	106.3	124.5	142.7	161.0	173.1	182.2	185.3	191.3	188.3	191.3	188.3
67.5°	85.0	97.2	112.4	124.5	133.6	139.7	142.7	148.8	145.8	148.8	145.8
70°	63.8	75.9	85.0	94.1	100.2	106.3	109.3	112.4	109.3	112.4	109.3
72.5°	48.6	54.7	63.8	72.9	75.9	79.0	82.0	82.0	82.0	85.0	82.0
75°	33.4	39.5	45.6	48.6	54.7	57.7	57.7	60.7	60.7	60.7	60.7
77.5°	24.3	27.3	30.4	33.4	36.4	39.5	39.5	42.5	42.5	42.5	42.5
80°	15.2	18.2	18.2	21.3	24.3	24.3	27.3	27.3	27.3	27.3	27.3
82.5°	9.1	12.1	12.1	15.2	15.2	15.2	18.2	18.2	18.2	18.2	18.2
85°	6.1	6.1	6.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.1	6.1	3.0	3.0
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: P212842

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2608.8	2608.8	2608.8	2608.8
2.5°	2569.3	2554.2	2578.5	2542.0
5°	2542.0	2526.8	2557.2	2511.6
7.5°	2508.6	2493.4	2520.7	2475.2
10°	2466.1	2450.9	2475.2	2426.6
12.5°	2429.6	2414.5	2441.8	2396.2
15°	2402.3	2387.1	2411.4	2368.9
17.5°	2359.8	2341.6	2368.9	2323.3
20°	2299.0	2286.9	2308.2	2262.6
22.5°	2229.2	2217.0	2241.3	2195.8
25°	2156.3	2141.1	2165.4	2119.9
27.5°	2062.2	2050.0	2074.3	2028.7
30°	1949.8	1937.6	1961.9	1919.4
32.5°	1822.2	1810.1	1828.3	1791.9
35°	1676.4	1667.3	1685.6	1646.1
37.5°	1518.5	1509.4	1527.6	1488.2
40°	1348.4	1339.3	1354.5	1336.3
42.5°	1181.4	1172.3	1187.5	1172.3
45°	1017.4	1011.3	1026.5	1011.3
47.5°	865.6	859.5	874.7	859.5
50°	719.8	722.8	728.9	722.8
52.5°	589.2	589.2	598.3	589.2
55°	476.8	479.9	482.9	476.8
57.5°	379.6	379.6	382.7	379.6
60°	294.6	297.6	297.6	294.6
62.5°	233.9	233.9	233.9	233.9
65°	185.3	185.3	188.3	185.3
67.5°	145.8	142.7	145.8	142.7
70°	109.3	109.3	109.3	109.3
72.5°	85.0	85.0	82.0	82.0
75°	60.7	63.8	60.7	60.7
77.5°	42.5	42.5	42.5	42.5
80°	27.3	27.3	27.3	27.3
82.5°	18.2	18.2	18.2	18.2
85°	12.1	9.1	9.1	9.1
87.5°	6.1	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0



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





















(END OF REPORT)