

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: P252334

Luminaire Tested: **LD6B70D010TE EU6B60709727 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60709727 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4679.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

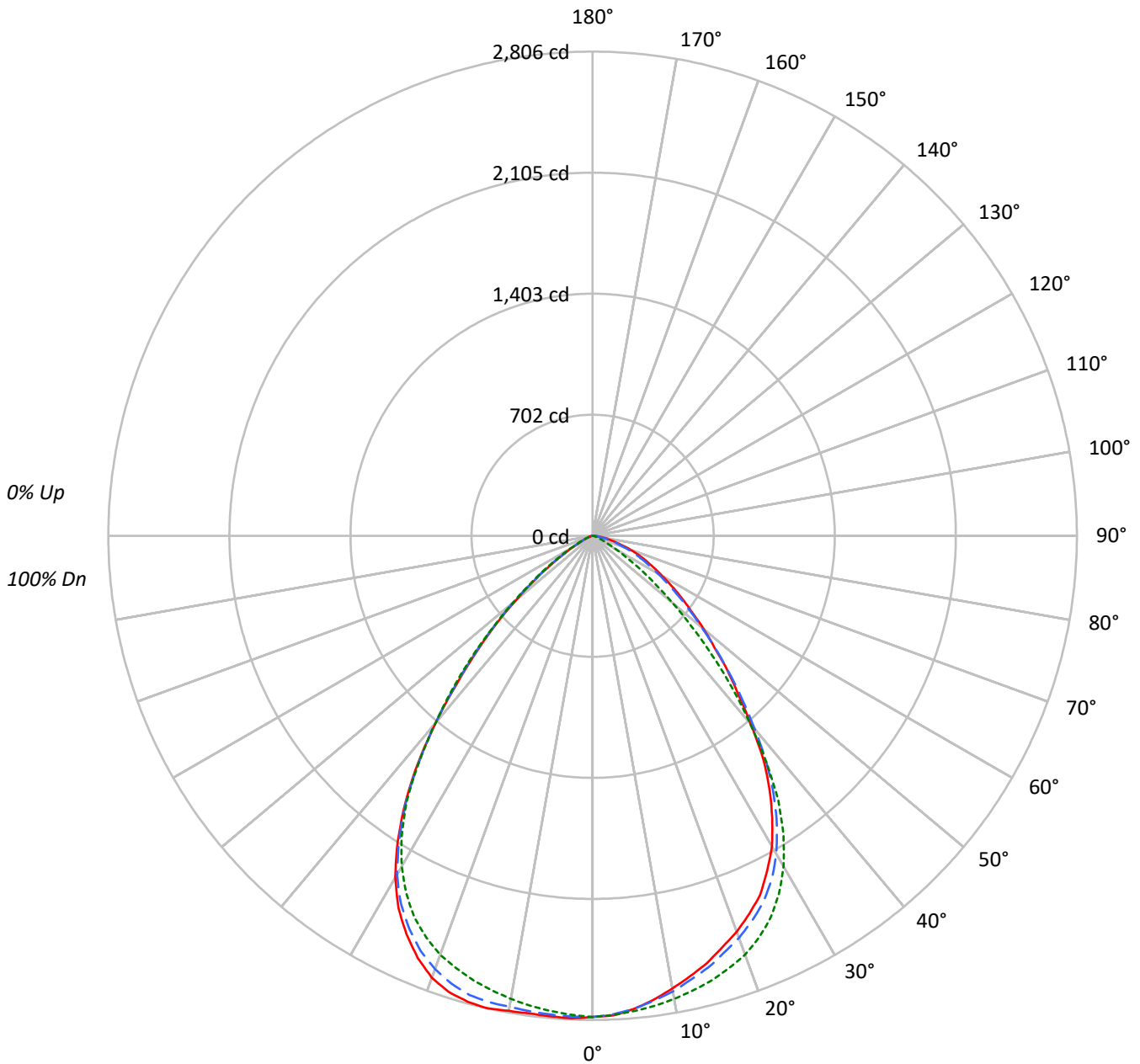
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	181956	181956	181956
5°	180221	181106	183090
10°	176502	180523	185207
15°	173131	180182	188827
20°	169542	179366	189190
25°	165364	175788	183548
30°	156565	166713	172295
35°	142181	149428	150766
40°	121344	120773	120194
45°	101933	90437	87642
50°	85125	61192	58117
55°	71647	37547	34100
60°	60648	19781	17145
65°	52518	10405	8321
70°	43682	6428	4502
75°	32265	4235	2546
80°	25323	2517	1277
85°	20136	2545	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	5.6
10°-20°	752.6	16.1
20°-30°	1111.3	23.8
30°-40°	1145.3	24.5
40°-50°	791.1	16.9
50°-60°	389.9	8.3
60°-70°	158.0	3.4
70°-80°	56.3	1.2
80°-90°	11.6	0.2
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°	2126.8	45.5
0°-40°	3272.1	69.9
0°-60°	4453.1	95.2
0°-90°	4679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4679.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2789	2789	2789	2789	2789	
5°	2752	2752	2765	2786	2796	260
15°	2563	2590	2668	2755	2796	722
25°	2297	2341	2442	2513	2550	1050
35°	1785	1829	1876	1886	1893	1106
45°	1105	1112	980	967	950	854
55°	630	606	330	310	300	569
65°	340	306	67	54	54	338
75°	128	108	17	10	10	144
85°	27	20	3	0	0	33
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°	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0
2.5°	2782.2	2772.1	2778.9	2765.4	2782.2	2765.4	2768.8	2772.1	2768.8	2772.1	2775.5
5°	2751.9	2741.8	2751.9	2735.1	2751.9	2741.8	2741.8	2745.2	2745.2	2748.6	2751.9
7.5°	2711.5	2701.4	2711.5	2694.7	2714.9	2704.8	2704.8	2711.5	2708.1	2711.5	2718.2
10°	2664.3	2650.9	2661.0	2650.9	2671.1	2657.6	2664.3	2664.3	2664.3	2674.4	2681.2
12.5°	2613.8	2600.3	2613.8	2597.0	2617.2	2607.1	2610.5	2620.6	2623.9	2630.7	2634.0
15°	2563.3	2546.5	2553.2	2543.1	2563.3	2553.2	2556.6	2570.0	2570.0	2580.1	2590.2
17.5°	2499.3	2485.8	2499.3	2485.8	2502.7	2495.9	2502.7	2512.8	2512.8	2522.9	2533.0
20°	2442.0	2428.6	2438.7	2428.6	2448.8	2438.7	2442.0	2455.5	2458.9	2469.0	2479.1
22.5°	2371.3	2361.2	2367.9	2357.8	2378.0	2371.3	2374.7	2388.1	2391.5	2398.2	2415.1
25°	2297.2	2277.0	2287.1	2280.4	2300.6	2290.5	2297.2	2310.7	2317.4	2327.5	2341.0
27.5°	2189.4	2179.3	2186.0	2186.0	2202.9	2192.8	2196.1	2209.6	2219.7	2229.8	2246.7
30°	2078.3	2061.4	2068.2	2071.5	2085.0	2078.3	2085.0	2098.5	2101.8	2115.3	2128.8
32.5°	1936.8	1930.0	1943.5	1936.8	1943.5	1943.5	1946.9	1957.0	1963.7	1970.5	1987.3
35°	1785.2	1771.7	1785.2	1778.5	1795.3	1785.2	1795.3	1805.4	1805.4	1818.9	1829.0
37.5°	1620.2	1603.3	1610.1	1610.1	1616.8	1613.4	1613.4	1630.3	1633.6	1643.7	1653.8
40°	1424.8	1418.1	1431.5	1428.2	1431.5	1431.5	1434.9	1445.0	1451.7	1455.1	1458.5
42.5°	1249.6	1253.0	1256.4	1256.4	1256.4	1256.4	1256.4	1269.9	1266.5	1276.6	1280.0
45°	1104.8	1091.3	1098.1	1094.7	1104.8	1094.7	1104.8	1114.9	1108.2	1118.3	1111.5
47.5°	956.6	956.6	956.6	953.2	960.0	956.6	963.3	966.7	966.7	966.7	963.3
50°	838.7	828.6	832.0	832.0	835.3	832.0	838.7	842.1	842.1	835.3	821.9
52.5°	724.2	720.8	720.8	727.6	727.6	724.2	724.2	724.2	724.2	714.1	707.3
55°	629.9	623.1	626.5	626.5	626.5	626.5	629.9	626.5	626.5	616.4	606.3
57.5°	545.7	538.9	538.9	538.9	542.3	538.9	538.9	538.9	535.6	525.5	512.0
60°	464.8	461.5	464.8	464.8	468.2	464.8	464.8	464.8	458.1	448.0	434.5
62.5°	397.5	397.5	397.5	400.8	400.8	397.5	397.5	394.1	390.7	377.3	363.8
65°	340.2	336.8	340.2	340.2	343.6	343.6	340.2	336.8	333.5	320.0	306.5
67.5°	282.9	279.6	282.9	282.9	286.3	282.9	282.9	282.9	272.8	266.1	252.6
70°	229.0	225.7	225.7	225.7	229.0	222.3	225.7	225.7	218.9	208.8	195.4
72.5°	175.2	175.2	175.2	175.2	175.2	175.2	171.8	171.8	165.0	154.9	148.2
75°	128.0	128.0	131.4	131.4	128.0	128.0	128.0	124.6	121.3	114.5	107.8
77.5°	94.3	94.3	94.3	94.3	90.9	90.9	90.9	87.6	84.2	80.8	74.1
80°	67.4	67.4	67.4	64.0	67.4	64.0	64.0	64.0	57.3	53.9	50.5
82.5°	47.2	43.8	43.8	43.8	43.8	43.8	43.8	40.4	40.4	37.1	33.7
85°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	23.6	20.2	20.2
87.5°	13.5	16.8	16.8	16.8	16.8	16.8	16.8	13.5	13.5	13.5	10.1
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°	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0
2.5°	2775.5	2775.5	2782.2	2772.1	2789.0	2778.9	2775.5	2792.3	2782.2	2778.9	2785.6
5°	2751.9	2755.3	2758.7	2751.9	2768.8	2758.7	2758.7	2775.5	2768.8	2765.4	2775.5
7.5°	2721.6	2725.0	2731.7	2728.3	2741.8	2735.1	2738.4	2755.3	2748.6	2748.6	2758.7
10°	2684.6	2691.3	2698.0	2698.0	2714.9	2708.1	2708.1	2728.3	2721.6	2725.0	2738.4
12.5°	2640.8	2650.9	2661.0	2664.3	2681.2	2671.1	2674.4	2698.0	2694.7	2698.0	2711.5
15°	2593.6	2607.1	2617.2	2617.2	2637.4	2627.3	2637.4	2661.0	2654.2	2667.7	2684.6
17.5°	2539.7	2553.2	2566.7	2570.0	2590.2	2583.5	2597.0	2620.6	2620.6	2627.3	2647.5
20°	2489.2	2506.0	2512.8	2522.9	2543.1	2539.7	2546.5	2573.4	2573.4	2583.5	2603.7
22.5°	2421.8	2438.7	2452.1	2462.2	2479.1	2479.1	2489.2	2512.8	2512.8	2519.5	2539.7
25°	2347.7	2367.9	2378.0	2388.1	2405.0	2401.6	2411.7	2431.9	2435.3	2442.0	2462.2
27.5°	2253.4	2270.3	2283.7	2290.5	2314.0	2300.6	2310.7	2334.2	2330.9	2337.6	2354.5
30°	2135.5	2152.4	2165.8	2165.8	2186.0	2186.0	2196.1	2206.3	2206.3	2213.0	2226.5
32.5°	1997.4	2017.6	2017.6	2027.7	2041.2	2027.7	2041.2	2054.7	2047.9	2058.0	2068.2
35°	1839.1	1849.2	1852.6	1852.6	1862.7	1859.3	1855.9	1866.1	1859.3	1876.2	1886.3
37.5°	1647.1	1660.6	1653.8	1660.6	1657.2	1647.1	1647.1	1664.0	1650.5	1653.8	1664.0
40°	1461.9	1461.9	1458.5	1441.6	1445.0	1434.9	1431.5	1434.9	1421.4	1418.1	1431.5
42.5°	1269.9	1266.5	1256.4	1232.8	1236.2	1219.3	1205.9	1205.9	1199.1	1195.8	1199.1
45°	1098.1	1088.0	1071.1	1044.2	1037.4	1024.0	997.0	990.3	980.2	980.2	983.6
47.5°	939.8	926.3	899.3	869.0	852.2	835.3	808.4	798.3	781.5	774.7	781.5
50°	808.4	784.8	751.1	707.3	690.5	670.3	643.3	626.5	609.7	602.9	599.6
52.5°	687.1	653.5	619.8	565.9	552.4	532.2	495.1	478.3	461.5	448.0	448.0
55°	582.7	552.4	505.2	454.7	434.5	414.3	377.3	353.7	336.8	330.1	323.4
57.5°	488.4	454.7	410.9	357.0	336.8	316.6	279.6	256.0	239.2	229.0	222.3
60°	410.9	373.9	330.1	282.9	259.4	239.2	202.1	178.5	161.7	151.6	144.8
62.5°	336.8	306.5	262.7	218.9	198.7	178.5	148.2	124.6	107.8	101.0	90.9
65°	282.9	252.6	212.2	175.2	158.3	138.1	111.2	90.9	77.5	67.4	60.6
67.5°	229.0	205.5	171.8	138.1	121.3	107.8	84.2	67.4	53.9	47.2	43.8
70°	181.9	158.3	131.4	104.4	94.3	80.8	64.0	47.2	40.4	33.7	30.3
72.5°	134.7	117.9	97.7	77.5	67.4	60.6	43.8	37.1	26.9	23.6	20.2
75°	97.7	84.2	70.7	53.9	47.2	43.8	33.7	23.6	20.2	16.8	13.5
77.5°	67.4	60.6	47.2	37.1	33.7	30.3	23.6	16.8	13.5	10.1	10.1
80°	43.8	37.1	30.3	23.6	23.6	20.2	13.5	10.1	10.1	6.7	6.7
82.5°	26.9	23.6	20.2	16.8	13.5	13.5	10.1	6.7	6.7	3.4	3.4
85°	16.8	13.5	10.1	10.1	6.7	6.7	6.7	3.4	3.4	3.4	3.4
87.5°	6.7	6.7	6.7	3.4	3.4	3.4	3.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0
2.5°	2785.6	2785.6	2792.3	2782.2	2789.0	2789.0	2795.7	2782.2	2789.0	2792.3	2799.1
5°	2772.1	2775.5	2782.2	2778.9	2782.2	2782.2	2789.0	2772.1	2785.6	2785.6	2795.7
7.5°	2758.7	2758.7	2765.4	2762.0	2768.8	2772.1	2778.9	2765.4	2778.9	2778.9	2789.0
10°	2741.8	2741.8	2751.9	2748.6	2758.7	2762.0	2772.1	2758.7	2772.1	2775.5	2785.6
12.5°	2718.2	2721.6	2731.7	2731.7	2741.8	2748.6	2758.7	2751.9	2768.8	2772.1	2785.6
15°	2691.3	2698.0	2711.5	2708.1	2718.2	2728.3	2741.8	2731.7	2755.3	2762.0	2775.5
17.5°	2657.6	2664.3	2674.4	2674.4	2684.6	2691.3	2708.1	2701.4	2721.6	2725.0	2741.8
20°	2607.1	2617.2	2630.7	2627.3	2637.4	2644.1	2657.6	2650.9	2671.1	2677.8	2694.7
22.5°	2546.5	2553.2	2563.3	2563.3	2573.4	2580.1	2593.6	2583.5	2603.7	2607.1	2620.6
25°	2465.6	2472.3	2479.1	2482.5	2492.6	2495.9	2502.7	2495.9	2512.8	2516.1	2533.0
27.5°	2361.2	2364.6	2374.7	2374.7	2381.4	2384.8	2394.9	2381.4	2405.0	2405.0	2415.1
30°	2236.6	2233.2	2246.7	2239.9	2246.7	2246.7	2256.8	2250.0	2266.9	2260.1	2270.3
32.5°	2071.5	2078.3	2078.3	2071.5	2085.0	2081.6	2081.6	2074.9	2085.0	2088.4	2095.1
35°	1879.5	1889.6	1889.6	1893.0	1896.4	1886.3	1889.6	1869.4	1886.3	1889.6	1893.0
37.5°	1670.7	1660.6	1667.3	1657.2	1674.1	1653.8	1653.8	1640.4	1653.8	1653.8	1657.2
40°	1431.5	1428.2	1434.9	1428.2	1424.8	1421.4	1414.7	1404.6	1418.1	1411.3	1421.4
42.5°	1205.9	1202.5	1202.5	1195.8	1192.4	1192.4	1185.6	1178.9	1175.5	1175.5	1192.4
45°	973.4	980.2	973.4	970.1	976.8	970.1	973.4	960.0	966.7	960.0	966.7
47.5°	778.1	781.5	774.7	768.0	778.1	768.0	768.0	757.9	771.3	771.3	764.6
50°	602.9	599.6	592.8	599.6	596.2	596.2	596.2	586.1	592.8	582.7	589.5
52.5°	444.6	441.3	441.3	437.9	441.3	437.9	437.9	434.5	434.5	431.1	434.5
55°	323.4	320.0	313.3	313.3	313.3	316.6	313.3	309.9	309.9	306.5	309.9
57.5°	218.9	212.2	212.2	212.2	212.2	208.8	208.8	205.5	208.8	205.5	208.8
60°	141.5	141.5	134.7	134.7	134.7	134.7	134.7	131.4	134.7	134.7	134.7
62.5°	87.6	87.6	84.2	80.8	84.2	80.8	80.8	80.8	84.2	80.8	84.2
65°	57.3	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
67.5°	40.4	37.1	37.1	37.1	37.1	37.1	37.1	33.7	37.1	37.1	37.1
70°	26.9	26.9	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
72.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
75°	13.5	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
77.5°	10.1	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
80°	6.7	6.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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: P252334

CATALOG NUMBER: LD6B70D010TE EU6B60709727 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0	2789.0
2.5°	2789.0	2792.3	2785.6	2789.0	2782.2	2789.0	2792.3	2799.1
5°	2782.2	2785.6	2778.9	2785.6	2778.9	2785.6	2789.0	2795.7
7.5°	2775.5	2782.2	2775.5	2782.2	2775.5	2782.2	2785.6	2792.3
10°	2775.5	2785.6	2778.9	2789.0	2778.9	2785.6	2792.3	2795.7
12.5°	2775.5	2785.6	2782.2	2789.0	2785.6	2792.3	2799.1	2805.8
15°	2768.8	2778.9	2772.1	2782.2	2778.9	2782.2	2795.7	2795.7
17.5°	2731.7	2741.8	2741.8	2748.6	2748.6	2758.7	2765.4	2772.1
20°	2684.6	2694.7	2691.3	2701.4	2701.4	2711.5	2718.2	2725.0
22.5°	2613.8	2627.3	2623.9	2634.0	2630.7	2637.4	2650.9	2647.5
25°	2522.9	2539.7	2536.3	2543.1	2539.7	2539.7	2546.5	2549.8
27.5°	2411.7	2421.8	2418.5	2425.2	2418.5	2425.2	2431.9	2435.3
30°	2266.9	2273.6	2270.3	2273.6	2270.3	2277.0	2280.4	2287.1
32.5°	2091.7	2101.8	2091.7	2098.5	2095.1	2095.1	2108.6	2101.8
35°	1882.9	1886.3	1889.6	1889.6	1882.9	1886.3	1893.0	1893.0
37.5°	1650.5	1667.3	1647.1	1657.2	1653.8	1653.8	1653.8	1664.0
40°	1408.0	1411.3	1404.6	1404.6	1404.6	1401.2	1414.7	1411.3
42.5°	1178.9	1182.3	1178.9	1168.8	1172.2	1172.2	1182.3	1168.8
45°	956.6	963.3	960.0	960.0	953.2	953.2	956.6	949.9
47.5°	757.9	764.6	754.5	757.9	751.1	757.9	754.5	761.2
50°	576.0	582.7	579.4	582.7	582.7	576.0	586.1	572.6
52.5°	431.1	434.5	431.1	427.8	424.4	424.4	431.1	427.8
55°	306.5	303.1	303.1	303.1	306.5	306.5	303.1	299.8
57.5°	205.5	205.5	202.1	202.1	205.5	198.7	202.1	198.7
60°	131.4	131.4	131.4	131.4	128.0	131.4	131.4	131.4
62.5°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
65°	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
67.5°	33.7	37.1	37.1	37.1	33.7	33.7	33.7	33.7
70°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
72.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
75°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
77.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)