

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: P252329

Luminaire Tested: **LD6B70D010TE EU6B60709027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252329
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 EU6B60709027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5381.0 lumens
Efficiency: N/A
Efficacy: 67.7 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

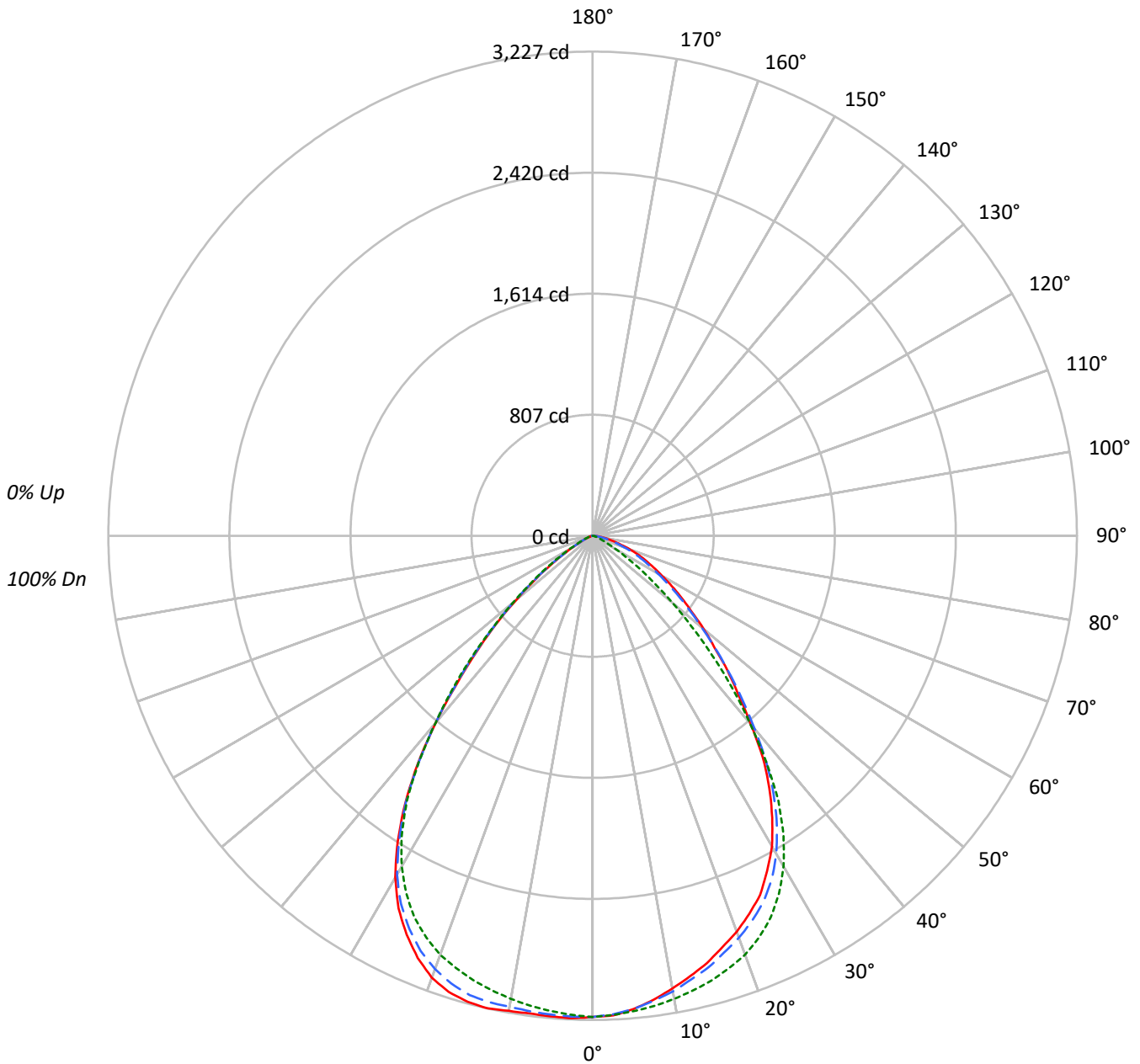
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	209253	209253	209253
5°	207262	208277	210563
10°	202988	207605	212998
15°	199107	207219	217161
20°	194981	206276	217572
25°	190170	202163	211089
30°	180054	191723	198142
35°	163517	171840	173385
40°	139552	138888	138232
45°	117231	104000	100789
50°	97893	70378	66835
55°	82396	43177	39219
60°	69755	22743	19716
65°	60391	11964	9571
70°	50244	7382	5169
75°	37105	4890	2924
80°	29117	2893	1465
85°	23205	2919	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	5.6
10°-20°	865.5	16.1
20°-30°	1278.1	23.8
30°-40°	1317.2	24.5
40°-50°	909.7	16.9
50°-60°	448.4	8.3
60°-70°	181.7	3.4
70°-80°	64.8	1.2
80°-90°	13.4	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°	2445.9	45.5
0°-40°	3763.0	69.9
0°-60°	5121.2	95.2
0°-90°	5381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5381.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3207	3207	3207	3207	3207	
5°	3165	3165	3180	3204	3215	299
15°	2948	2979	3068	3169	3215	830
25°	2642	2692	2808	2890	2932	1208
35°	2053	2103	2158	2169	2177	1272
45°	1271	1278	1127	1112	1092	982
55°	724	697	380	356	345	655
65°	391	352	78	62	62	389
75°	147	124	19	12	12	165
85°	31	23	4	0	0	38
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°	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4
2.5°	3199.7	3188.0	3195.8	3180.3	3199.7	3180.3	3184.2	3188.0	3184.2	3188.0	3191.9
5°	3164.8	3153.2	3164.8	3145.4	3164.8	3153.2	3153.2	3157.0	3157.0	3160.9	3164.8
7.5°	3118.3	3106.7	3118.3	3098.9	3122.2	3110.6	3110.6	3118.3	3114.4	3118.3	3126.1
10°	3064.1	3048.6	3060.2	3048.6	3071.8	3056.3	3064.1	3064.1	3064.1	3075.7	3083.4
12.5°	3006.0	2990.5	3006.0	2986.6	3009.8	2998.2	3002.1	3013.7	3017.6	3025.3	3029.2
15°	2947.9	2928.5	2936.2	2924.6	2947.9	2936.2	2940.1	2955.6	2955.6	2967.2	2978.9
17.5°	2874.3	2858.8	2874.3	2858.8	2878.1	2870.4	2878.1	2889.8	2889.8	2901.4	2913.0
20°	2808.4	2792.9	2804.5	2792.9	2816.2	2804.5	2808.4	2823.9	2827.8	2839.4	2851.0
22.5°	2727.1	2715.4	2723.2	2711.6	2734.8	2727.1	2730.9	2746.4	2750.3	2758.1	2777.4
25°	2641.8	2618.6	2630.2	2622.5	2645.7	2634.1	2641.8	2657.3	2665.1	2676.7	2692.2
27.5°	2517.9	2506.3	2514.0	2514.0	2533.4	2521.8	2525.6	2541.1	2552.8	2564.4	2583.7
30°	2390.1	2370.7	2378.4	2382.3	2397.8	2390.1	2397.8	2413.3	2417.2	2432.7	2448.2
32.5°	2227.4	2219.6	2235.1	2227.4	2235.1	2235.1	2239.0	2250.6	2258.4	2266.1	2285.5
35°	2053.1	2037.6	2053.1	2045.3	2064.7	2053.1	2064.7	2076.3	2076.3	2091.8	2103.4
37.5°	1863.2	1843.9	1851.6	1851.6	1859.4	1855.5	1855.5	1874.9	1878.7	1890.4	1902.0
40°	1638.6	1630.8	1646.3	1642.4	1646.3	1646.3	1650.2	1661.8	1669.6	1673.4	1677.3
42.5°	1437.1	1441.0	1444.9	1444.9	1444.9	1444.9	1444.9	1460.4	1456.5	1468.1	1472.0
45°	1270.6	1255.1	1262.8	1258.9	1270.6	1258.9	1270.6	1282.2	1274.4	1286.1	1278.3
47.5°	1100.1	1100.1	1100.1	1096.3	1104.0	1100.1	1107.9	1111.7	1111.7	1111.7	1107.9
50°	964.5	952.9	956.8	956.8	960.7	956.8	964.5	968.4	968.4	960.7	945.2
52.5°	832.8	829.0	829.0	836.7	836.7	832.8	832.8	832.8	832.8	821.2	813.5
55°	724.4	716.6	720.5	720.5	720.5	720.5	724.4	720.5	720.5	708.9	697.3
57.5°	627.5	619.8	619.8	619.8	623.7	619.8	619.8	619.8	615.9	604.3	588.8
60°	534.6	530.7	534.6	534.6	538.4	534.6	534.6	534.6	526.8	515.2	499.7
62.5°	457.1	457.1	457.1	461.0	461.0	457.1	457.1	453.2	449.3	433.9	418.4
65°	391.2	387.4	391.2	391.2	395.1	395.1	391.2	387.4	383.5	368.0	352.5
67.5°	325.4	321.5	325.4	325.4	329.3	325.4	325.4	325.4	313.8	306.0	290.5
70°	263.4	259.5	259.5	259.5	263.4	255.7	259.5	259.5	251.8	240.2	224.7
72.5°	201.4	201.4	201.4	201.4	201.4	201.4	197.6	197.6	189.8	178.2	170.4
75°	147.2	147.2	151.1	151.1	147.2	147.2	147.2	143.3	139.5	131.7	124.0
77.5°	108.5	108.5	108.5	108.5	104.6	104.6	104.6	100.7	96.8	93.0	85.2
80°	77.5	77.5	77.5	73.6	77.5	73.6	73.6	73.6	65.9	62.0	58.1
82.5°	54.2	50.4	50.4	50.4	50.4	50.4	50.4	46.5	46.5	42.6	38.7
85°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	27.1	23.2	23.2
87.5°	15.5	19.4	19.4	19.4	19.4	19.4	19.4	15.5	15.5	15.5	11.6
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°	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4
2.5°	3191.9	3191.9	3199.7	3188.0	3207.4	3195.8	3191.9	3211.3	3199.7	3195.8	3203.5
5°	3164.8	3168.7	3172.5	3164.8	3184.2	3172.5	3172.5	3191.9	3184.2	3180.3	3191.9
7.5°	3129.9	3133.8	3141.6	3137.7	3153.2	3145.4	3149.3	3168.7	3160.9	3160.9	3172.5
10°	3087.3	3095.1	3102.8	3102.8	3122.2	3114.4	3114.4	3137.7	3129.9	3133.8	3149.3
12.5°	3037.0	3048.6	3060.2	3064.1	3083.4	3071.8	3075.7	3102.8	3098.9	3102.8	3118.3
15°	2982.7	2998.2	3009.8	3009.8	3033.1	3021.5	3033.1	3060.2	3052.5	3068.0	3087.3
17.5°	2920.8	2936.2	2951.7	2955.6	2978.9	2971.1	2986.6	3013.7	3013.7	3021.5	3044.7
20°	2862.6	2882.0	2889.8	2901.4	2924.6	2920.8	2928.5	2959.5	2959.5	2971.1	2994.4
22.5°	2785.2	2804.5	2820.0	2831.7	2851.0	2851.0	2862.6	2889.8	2889.8	2897.5	2920.8
25°	2700.0	2723.2	2734.8	2746.4	2765.8	2761.9	2773.6	2796.8	2800.7	2808.4	2831.7
27.5°	2591.5	2610.9	2626.4	2634.1	2661.2	2645.7	2657.3	2684.5	2680.6	2688.3	2707.7
30°	2455.9	2475.3	2490.8	2490.8	2514.0	2514.0	2525.6	2537.3	2537.3	2545.0	2560.5
32.5°	2297.1	2320.3	2320.3	2332.0	2347.5	2332.0	2347.5	2362.9	2355.2	2366.8	2378.4
35°	2115.0	2126.7	2130.5	2130.5	2142.1	2138.3	2134.4	2146.0	2138.3	2157.6	2169.3
37.5°	1894.2	1909.7	1902.0	1909.7	1905.9	1894.2	1894.2	1913.6	1898.1	1902.0	1913.6
40°	1681.2	1681.2	1677.3	1657.9	1661.8	1650.2	1646.3	1650.2	1634.7	1630.8	1646.3
42.5°	1460.4	1456.5	1444.9	1417.8	1421.6	1402.3	1386.8	1386.8	1379.0	1375.2	1379.0
45°	1262.8	1251.2	1231.8	1200.8	1193.1	1177.6	1146.6	1138.9	1127.2	1127.2	1131.1
47.5°	1080.8	1065.3	1034.3	999.4	980.0	960.7	929.7	918.1	898.7	890.9	898.7
50°	929.7	902.6	863.8	813.5	794.1	770.9	739.9	720.5	701.1	693.4	689.5
52.5°	790.2	751.5	712.8	650.8	635.3	612.0	569.4	550.1	530.7	515.2	515.2
55°	670.1	635.3	581.1	522.9	499.7	476.5	433.9	406.7	387.4	379.6	371.9
57.5°	561.7	522.9	472.6	410.6	387.4	364.1	321.5	294.4	275.0	263.4	255.7
60°	472.6	430.0	379.6	325.4	298.3	275.0	232.4	205.3	185.9	174.3	166.6
62.5°	387.4	352.5	302.1	251.8	228.5	205.3	170.4	143.3	124.0	116.2	104.6
65°	325.4	290.5	244.0	201.4	182.1	158.8	127.8	104.6	89.1	77.5	69.7
67.5°	263.4	236.3	197.6	158.8	139.5	124.0	96.8	77.5	62.0	54.2	50.4
70°	209.2	182.1	151.1	120.1	108.5	93.0	73.6	54.2	46.5	38.7	34.9
72.5°	154.9	135.6	112.3	89.1	77.5	69.7	50.4	42.6	31.0	27.1	23.2
75°	112.3	96.8	81.3	62.0	54.2	50.4	38.7	27.1	23.2	19.4	15.5
77.5°	77.5	69.7	54.2	42.6	38.7	34.9	27.1	19.4	15.5	11.6	11.6
80°	50.4	42.6	34.9	27.1	27.1	23.2	15.5	11.6	11.6	7.7	7.7
82.5°	31.0	27.1	23.2	19.4	15.5	15.5	11.6	7.7	7.7	3.9	3.9
85°	19.4	15.5	11.6	11.6	7.7	7.7	7.7	3.9	3.9	3.9	3.9
87.5°	7.7	7.7	7.7	3.9	3.9	3.9	3.9	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°	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4
2.5°	3203.5	3203.5	3211.3	3199.7	3207.4	3207.4	3215.2	3199.7	3207.4	3211.3	3219.0
5°	3188.0	3191.9	3199.7	3195.8	3199.7	3199.7	3207.4	3188.0	3203.5	3203.5	3215.2
7.5°	3172.5	3172.5	3180.3	3176.4	3184.2	3188.0	3195.8	3180.3	3195.8	3195.8	3207.4
10°	3153.2	3153.2	3164.8	3160.9	3172.5	3176.4	3188.0	3172.5	3188.0	3191.9	3203.5
12.5°	3126.1	3129.9	3141.6	3141.6	3153.2	3160.9	3172.5	3164.8	3184.2	3188.0	3203.5
15°	3095.1	3102.8	3118.3	3114.4	3126.1	3137.7	3153.2	3141.6	3168.7	3176.4	3191.9
17.5°	3056.3	3064.1	3075.7	3075.7	3087.3	3095.1	3114.4	3106.7	3129.9	3133.8	3153.2
20°	2998.2	3009.8	3025.3	3021.5	3033.1	3040.8	3056.3	3048.6	3071.8	3079.6	3098.9
22.5°	2928.5	2936.2	2947.9	2947.9	2959.5	2967.2	2982.7	2971.1	2994.4	2998.2	3013.7
25°	2835.5	2843.3	2851.0	2854.9	2866.5	2870.4	2878.1	2870.4	2889.8	2893.6	2913.0
27.5°	2715.4	2719.3	2730.9	2730.9	2738.7	2742.6	2754.2	2738.7	2765.8	2765.8	2777.4
30°	2572.1	2568.2	2583.7	2576.0	2583.7	2583.7	2595.4	2587.6	2607.0	2599.2	2610.9
32.5°	2382.3	2390.1	2390.1	2382.3	2397.8	2393.9	2393.9	2386.2	2397.8	2401.7	2409.4
35°	2161.5	2173.1	2173.1	2177.0	2180.9	2169.3	2173.1	2149.9	2169.3	2173.1	2177.0
37.5°	1921.3	1909.7	1917.5	1905.9	1925.2	1902.0	1902.0	1886.5	1902.0	1902.0	1905.9
40°	1646.3	1642.4	1650.2	1642.4	1638.6	1634.7	1626.9	1615.3	1630.8	1623.1	1634.7
42.5°	1386.8	1382.9	1382.9	1375.2	1371.3	1371.3	1363.5	1355.8	1351.9	1351.9	1371.3
45°	1119.5	1127.2	1119.5	1115.6	1123.4	1115.6	1119.5	1104.0	1111.7	1104.0	1111.7
47.5°	894.8	898.7	890.9	883.2	894.8	883.2	883.2	871.6	887.1	887.1	879.3
50°	693.4	689.5	681.8	689.5	685.6	685.6	685.6	674.0	681.8	670.1	677.9
52.5°	511.3	507.5	507.5	503.6	507.5	503.6	503.6	499.7	499.7	495.8	499.7
55°	371.9	368.0	360.3	360.3	360.3	364.1	360.3	356.4	356.4	352.5	356.4
57.5°	251.8	244.0	244.0	244.0	244.0	240.2	240.2	236.3	240.2	236.3	240.2
60°	162.7	162.7	154.9	154.9	154.9	154.9	154.9	151.1	154.9	154.9	154.9
62.5°	100.7	100.7	96.8	93.0	96.8	93.0	93.0	93.0	96.8	93.0	96.8
65°	65.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
67.5°	46.5	42.6	42.6	42.6	42.6	42.6	42.6	38.7	42.6	42.6	42.6
70°	31.0	31.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
72.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
75°	15.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
77.5°	11.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
80°	7.7	7.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.9	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	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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: P252329

CATALOG NUMBER: LD6B70D010TE EU6B60709027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4
2.5°	3207.4	3211.3	3203.5	3207.4	3199.7	3207.4	3211.3	3219.0
5°	3199.7	3203.5	3195.8	3203.5	3195.8	3203.5	3207.4	3215.2
7.5°	3191.9	3199.7	3191.9	3199.7	3191.9	3199.7	3203.5	3211.3
10°	3191.9	3203.5	3195.8	3207.4	3195.8	3203.5	3211.3	3215.2
12.5°	3191.9	3203.5	3199.7	3207.4	3203.5	3211.3	3219.0	3226.8
15°	3184.2	3195.8	3188.0	3199.7	3195.8	3199.7	3215.2	3215.2
17.5°	3141.6	3153.2	3153.2	3160.9	3160.9	3172.5	3180.3	3188.0
20°	3087.3	3098.9	3095.1	3106.7	3106.7	3118.3	3126.1	3133.8
22.5°	3006.0	3021.5	3017.6	3029.2	3025.3	3033.1	3048.6	3044.7
25°	2901.4	2920.8	2916.9	2924.6	2920.8	2920.8	2928.5	2932.4
27.5°	2773.6	2785.2	2781.3	2789.0	2781.3	2789.0	2796.8	2800.7
30°	2607.0	2614.7	2610.9	2614.7	2610.9	2618.6	2622.5	2630.2
32.5°	2405.6	2417.2	2405.6	2413.3	2409.4	2409.4	2424.9	2417.2
35°	2165.4	2169.3	2173.1	2173.1	2165.4	2169.3	2177.0	2177.0
37.5°	1898.1	1917.5	1894.2	1905.9	1902.0	1902.0	1902.0	1913.6
40°	1619.2	1623.1	1615.3	1615.3	1615.3	1611.5	1626.9	1623.1
42.5°	1355.8	1359.7	1355.8	1344.2	1348.0	1348.0	1359.7	1344.2
45°	1100.1	1107.9	1104.0	1104.0	1096.3	1096.3	1100.1	1092.4
47.5°	871.6	879.3	867.7	871.6	863.8	871.6	867.7	875.5
50°	662.4	670.1	666.3	670.1	670.1	662.4	674.0	658.5
52.5°	495.8	499.7	495.8	492.0	488.1	488.1	495.8	492.0
55°	352.5	348.6	348.6	348.6	352.5	352.5	348.6	344.8
57.5°	236.3	236.3	232.4	232.4	236.3	228.5	232.4	228.5
60°	151.1	151.1	151.1	151.1	147.2	151.1	151.1	151.1
62.5°	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
65°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
67.5°	38.7	42.6	42.6	42.6	38.7	38.7	38.7	38.7
70°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
72.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
75°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	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)