

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: P252318

Luminaire Tested: **LD6B60D010TE EU6B60709035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252318
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: LD6B60D010TE EU6B60709035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4781.0 lumens
Efficiency: N/A
Efficacy: 76.5 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

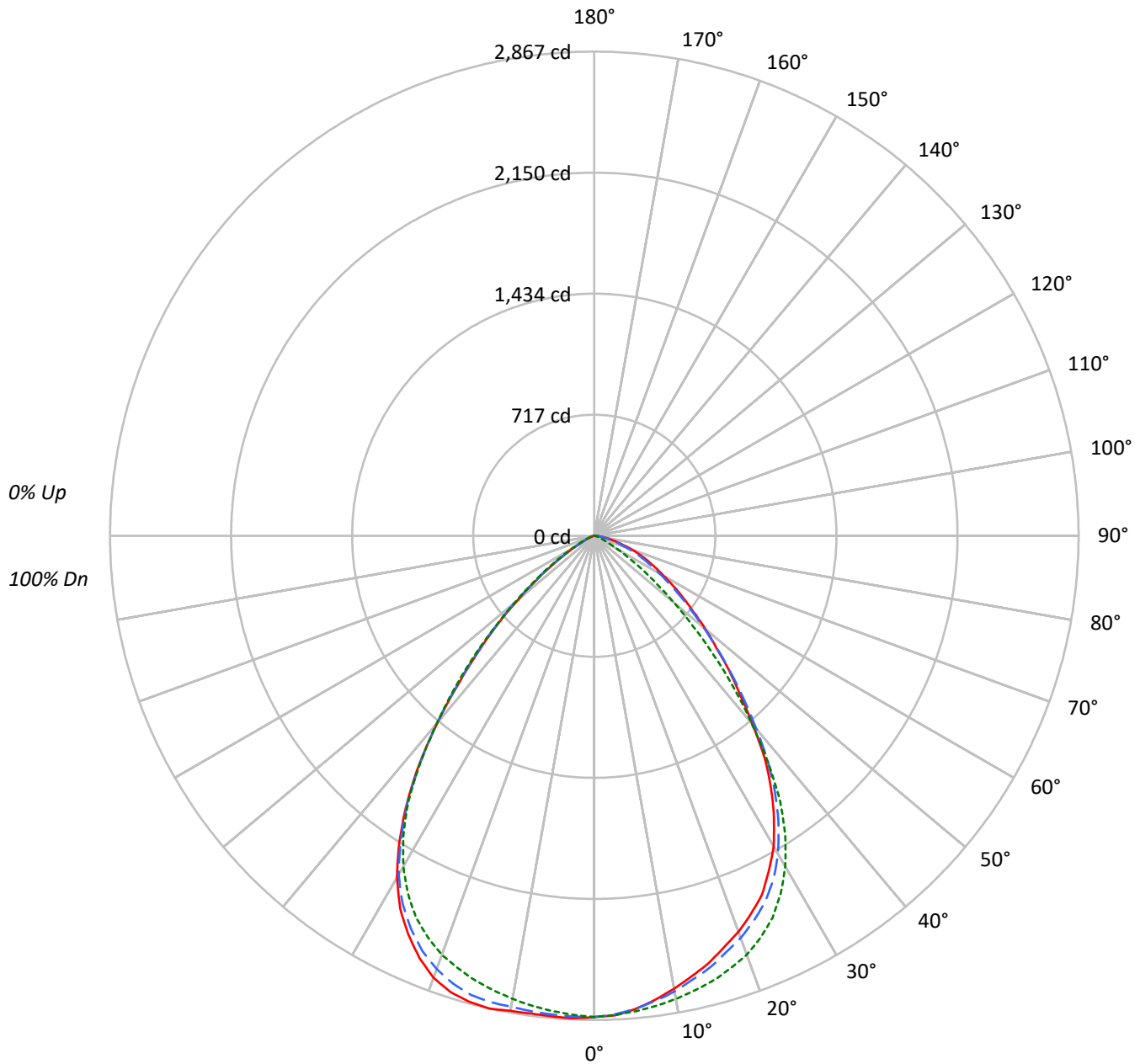
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	185923	185923	185923
5°	184151	185055	187085
10°	180351	184458	189248
15°	176906	184113	192947
20°	173243	183275	193314
25°	168971	179624	187550
30°	159978	170344	176047
35°	145279	152686	154056
40°	123993	123405	122817
45°	104157	92403	89552
50°	86982	62532	59386
55°	73205	38366	34840
60°	61979	20212	17511
65°	53660	10621	8506
70°	44636	6562	4597
75°	32971	4336	2596
80°	25849	2592	1277
85°	20585	2545	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	5.6
10°-20°	769.0	16.1
20°-30°	1135.6	23.8
30°-40°	1170.3	24.5
40°-50°	808.3	16.9
50°-60°	398.4	8.3
60°-70°	161.4	3.4
70°-80°	57.5	1.2
80°-90°	11.9	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°	2173.1	45.5
0°-40°	3343.4	69.9
0°-60°	4550.1	95.2
0°-90°	4781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4781.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2850	2850	2850	2850	2850	
5°	2812	2812	2826	2846	2857	266
15°	2619	2647	2726	2815	2857	737
25°	2347	2392	2495	2568	2605	1073
35°	1824	1869	1917	1927	1934	1130
45°	1129	1136	1002	988	971	873
55°	644	620	337	317	306	582
65°	348	313	69	55	55	345
75°	131	110	17	10	10	147
85°	28	21	3	0	0	34
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°	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8
2.5°	2842.9	2832.6	2839.4	2825.7	2842.9	2825.7	2829.1	2832.6	2829.1	2832.6	2836.0
5°	2811.9	2801.6	2811.9	2794.7	2811.9	2801.6	2801.6	2805.0	2805.0	2808.5	2811.9
7.5°	2770.6	2760.3	2770.6	2753.4	2774.1	2763.7	2763.7	2770.6	2767.2	2770.6	2777.5
10°	2722.4	2708.7	2719.0	2708.7	2729.3	2715.5	2722.4	2722.4	2722.4	2732.8	2739.6
12.5°	2670.8	2657.0	2670.8	2653.6	2674.2	2663.9	2667.4	2677.7	2681.1	2688.0	2691.4
15°	2619.2	2602.0	2608.8	2598.5	2619.2	2608.8	2612.3	2626.1	2626.1	2636.4	2646.7
17.5°	2553.8	2540.0	2553.8	2540.0	2557.2	2550.3	2557.2	2567.5	2567.5	2577.9	2588.2
20°	2495.3	2481.5	2491.8	2481.5	2502.2	2491.8	2495.3	2509.0	2512.5	2522.8	2533.1
22.5°	2423.0	2412.7	2419.6	2409.2	2429.9	2423.0	2426.4	2440.2	2443.6	2450.5	2467.7
25°	2347.3	2326.6	2336.9	2330.1	2350.7	2340.4	2347.3	2361.0	2367.9	2378.3	2392.0
27.5°	2237.1	2226.8	2233.7	2233.7	2250.9	2240.6	2244.0	2257.8	2268.1	2278.4	2295.6
30°	2123.6	2106.4	2113.2	2116.7	2130.4	2123.6	2130.4	2144.2	2147.7	2161.4	2175.2
32.5°	1979.0	1972.1	1985.9	1979.0	1985.9	1985.9	1989.3	1999.7	2006.5	2013.4	2030.6
35°	1824.1	1810.4	1824.1	1817.2	1834.5	1824.1	1834.5	1844.8	1844.8	1858.5	1868.9
37.5°	1655.5	1638.3	1645.2	1645.2	1652.0	1648.6	1648.6	1665.8	1669.2	1679.6	1689.9
40°	1455.9	1449.0	1462.7	1459.3	1462.7	1462.7	1466.2	1476.5	1483.4	1486.8	1490.3
42.5°	1276.9	1280.3	1283.8	1283.8	1283.8	1283.8	1283.8	1297.5	1294.1	1304.4	1307.9
45°	1128.9	1115.1	1122.0	1118.6	1128.9	1118.6	1128.9	1139.2	1132.3	1142.7	1135.8
47.5°	977.5	977.5	977.5	974.0	980.9	977.5	984.3	987.8	987.8	987.8	984.3
50°	857.0	846.7	850.1	850.1	853.6	850.1	857.0	860.4	860.4	853.6	839.8
52.5°	740.0	736.5	736.5	743.4	743.4	740.0	740.0	740.0	740.0	729.7	722.8
55°	643.6	636.7	640.2	640.2	640.2	640.2	643.6	640.2	640.2	629.8	619.5
57.5°	557.6	550.7	550.7	550.7	554.1	550.7	550.7	550.7	547.2	536.9	523.1
60°	475.0	471.5	475.0	475.0	478.4	475.0	475.0	475.0	468.1	457.8	444.0
62.5°	406.1	406.1	406.1	409.6	409.6	406.1	406.1	402.7	399.2	385.5	371.7
65°	347.6	344.2	347.6	347.6	351.1	351.1	347.6	344.2	340.7	327.0	313.2
67.5°	289.1	285.7	289.1	289.1	292.5	289.1	289.1	289.1	278.8	271.9	258.1
70°	234.0	230.6	230.6	230.6	234.0	227.2	230.6	230.6	223.7	213.4	199.6
72.5°	179.0	179.0	179.0	179.0	179.0	179.0	175.5	175.5	168.6	158.3	151.4
75°	130.8	130.8	134.2	134.2	130.8	130.8	130.8	127.3	123.9	117.0	110.1
77.5°	96.4	96.4	96.4	96.4	92.9	92.9	92.9	89.5	86.0	82.6	75.7
80°	68.8	68.8	68.8	65.4	68.8	65.4	65.4	65.4	58.5	55.1	51.6
82.5°	48.2	44.7	44.7	44.7	44.7	44.7	44.7	41.3	41.3	37.9	34.4
85°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	24.1	20.7	20.7
87.5°	13.8	17.2	17.2	17.2	17.2	17.2	17.2	13.8	13.8	13.8	10.3
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°	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8
2.5°	2836.0	2836.0	2842.9	2832.6	2849.8	2839.4	2836.0	2853.2	2842.9	2839.4	2846.3
5°	2811.9	2815.4	2818.8	2811.9	2829.1	2818.8	2818.8	2836.0	2829.1	2825.7	2836.0
7.5°	2780.9	2784.4	2791.3	2787.8	2801.6	2794.7	2798.1	2815.4	2808.5	2808.5	2818.8
10°	2743.1	2750.0	2756.8	2756.8	2774.1	2767.2	2767.2	2787.8	2780.9	2784.4	2798.1
12.5°	2698.3	2708.7	2719.0	2722.4	2739.6	2729.3	2732.8	2756.8	2753.4	2756.8	2770.6
15°	2650.1	2663.9	2674.2	2674.2	2694.9	2684.6	2694.9	2719.0	2712.1	2725.9	2743.1
17.5°	2595.1	2608.8	2622.6	2626.1	2646.7	2639.8	2653.6	2677.7	2677.7	2684.6	2705.2
20°	2543.5	2560.7	2567.5	2577.9	2598.5	2595.1	2602.0	2629.5	2629.5	2639.8	2660.5
22.5°	2474.6	2491.8	2505.6	2515.9	2533.1	2533.1	2543.5	2567.5	2567.5	2574.4	2595.1
25°	2398.9	2419.6	2429.9	2440.2	2457.4	2454.0	2464.3	2484.9	2488.4	2495.3	2515.9
27.5°	2302.5	2319.7	2333.5	2340.4	2364.5	2350.7	2361.0	2385.1	2381.7	2388.6	2405.8
30°	2182.1	2199.3	2213.0	2213.0	2233.7	2233.7	2244.0	2254.3	2254.3	2261.2	2275.0
32.5°	2041.0	2061.6	2061.6	2071.9	2085.7	2071.9	2085.7	2099.5	2092.6	2102.9	2113.2
35°	1879.2	1889.5	1893.0	1893.0	1903.3	1899.8	1896.4	1906.7	1899.8	1917.1	1927.4
37.5°	1683.0	1696.8	1689.9	1696.8	1693.3	1683.0	1683.0	1700.2	1686.5	1689.9	1700.2
40°	1493.7	1493.7	1490.3	1473.1	1476.5	1466.2	1462.7	1466.2	1452.4	1449.0	1462.7
42.5°	1297.5	1294.1	1283.8	1259.7	1263.1	1245.9	1232.1	1232.1	1225.3	1221.8	1225.3
45°	1122.0	1111.7	1094.5	1066.9	1060.1	1046.3	1018.8	1011.9	1001.5	1001.5	1005.0
47.5°	960.2	946.5	918.9	888.0	870.8	853.6	826.0	815.7	798.5	791.6	798.5
50°	826.0	801.9	767.5	722.8	705.6	684.9	657.4	640.2	623.0	616.1	612.6
52.5°	702.1	667.7	633.3	578.2	564.4	543.8	505.9	488.7	471.5	457.8	457.8
55°	595.4	564.4	516.3	464.6	444.0	423.3	385.5	361.4	344.2	337.3	330.4
57.5°	499.1	464.6	419.9	364.8	344.2	323.5	285.7	261.6	244.4	234.0	227.2
60°	419.9	382.0	337.3	289.1	265.0	244.4	206.5	182.4	165.2	154.9	148.0
62.5°	344.2	313.2	268.5	223.7	203.1	182.4	151.4	127.3	110.1	103.3	92.9
65°	289.1	258.1	216.8	179.0	161.8	141.1	113.6	92.9	79.2	68.8	62.0
67.5°	234.0	209.9	175.5	141.1	123.9	110.1	86.0	68.8	55.1	48.2	44.7
70°	185.9	161.8	134.2	106.7	96.4	82.6	65.4	48.2	41.3	34.4	31.0
72.5°	137.7	120.5	99.8	79.2	68.8	62.0	44.7	37.9	27.5	24.1	20.7
75°	99.8	86.0	72.3	55.1	48.2	44.7	34.4	24.1	20.7	17.2	13.8
77.5°	68.8	62.0	48.2	37.9	34.4	31.0	24.1	17.2	13.8	10.3	10.3
80°	44.7	37.9	31.0	24.1	24.1	20.7	13.8	10.3	10.3	6.9	6.9
82.5°	27.5	24.1	20.7	17.2	13.8	13.8	10.3	6.9	6.9	3.4	3.4
85°	17.2	13.8	10.3	10.3	6.9	6.9	6.9	3.4	3.4	3.4	3.4
87.5°	6.9	6.9	6.9	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°	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8
2.5°	2846.3	2846.3	2853.2	2842.9	2849.8	2849.8	2856.7	2842.9	2849.8	2853.2	2860.1
5°	2832.6	2836.0	2842.9	2839.4	2842.9	2842.9	2849.8	2832.6	2846.3	2846.3	2856.7
7.5°	2818.8	2818.8	2825.7	2822.2	2829.1	2832.6	2839.4	2825.7	2839.4	2839.4	2849.8
10°	2801.6	2801.6	2811.9	2808.5	2818.8	2822.2	2832.6	2818.8	2832.6	2836.0	2846.3
12.5°	2777.5	2780.9	2791.3	2791.3	2801.6	2808.5	2818.8	2811.9	2829.1	2832.6	2846.3
15°	2750.0	2756.8	2770.6	2767.2	2777.5	2787.8	2801.6	2791.3	2815.4	2822.2	2836.0
17.5°	2715.5	2722.4	2732.8	2732.8	2743.1	2750.0	2767.2	2760.3	2780.9	2784.4	2801.6
20°	2663.9	2674.2	2688.0	2684.6	2694.9	2701.8	2715.5	2708.7	2729.3	2736.2	2753.4
22.5°	2602.0	2608.8	2619.2	2619.2	2629.5	2636.4	2650.1	2639.8	2660.5	2663.9	2677.7
25°	2519.4	2526.2	2533.1	2536.6	2546.9	2550.3	2557.2	2550.3	2567.5	2571.0	2588.2
27.5°	2412.7	2416.1	2426.4	2426.4	2433.3	2436.8	2447.1	2433.3	2457.4	2457.4	2467.7
30°	2285.3	2281.9	2295.6	2288.8	2295.6	2295.6	2306.0	2299.1	2316.3	2309.4	2319.7
32.5°	2116.7	2123.6	2123.6	2116.7	2130.4	2127.0	2127.0	2120.1	2130.4	2133.9	2140.8
35°	1920.5	1930.8	1930.8	1934.3	1937.7	1927.4	1930.8	1910.2	1927.4	1930.8	1934.3
37.5°	1707.1	1696.8	1703.7	1693.3	1710.6	1689.9	1689.9	1676.1	1689.9	1689.9	1693.3
40°	1462.7	1459.3	1466.2	1459.3	1455.9	1452.4	1445.5	1435.2	1449.0	1442.1	1452.4
42.5°	1232.1	1228.7	1228.7	1221.8	1218.4	1218.4	1211.5	1204.6	1201.2	1201.2	1218.4
45°	994.7	1001.5	994.7	991.2	998.1	991.2	994.7	980.9	987.8	980.9	987.8
47.5°	795.0	798.5	791.6	784.7	795.0	784.7	784.7	774.4	788.2	788.2	781.3
50°	616.1	612.6	605.7	612.6	609.2	609.2	609.2	598.9	605.7	595.4	602.3
52.5°	454.3	450.9	450.9	447.4	450.9	447.4	447.4	444.0	444.0	440.5	444.0
55°	330.4	327.0	320.1	320.1	320.1	323.5	320.1	316.6	316.6	313.2	316.6
57.5°	223.7	216.8	216.8	216.8	216.8	213.4	213.4	209.9	213.4	209.9	213.4
60°	144.6	144.6	137.7	137.7	137.7	137.7	137.7	134.2	137.7	137.7	137.7
62.5°	89.5	89.5	86.0	82.6	86.0	82.6	82.6	82.6	86.0	82.6	86.0
65°	58.5	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
67.5°	41.3	37.9	37.9	37.9	37.9	37.9	37.9	34.4	37.9	37.9	37.9
70°	27.5	27.5	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
72.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
75°	13.8	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
77.5°	10.3	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	6.9	6.9	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: P252318

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8
2.5°	2849.8	2853.2	2846.3	2849.8	2842.9	2849.8	2853.2	2860.1
5°	2842.9	2846.3	2839.4	2846.3	2839.4	2846.3	2849.8	2856.7
7.5°	2836.0	2842.9	2836.0	2842.9	2836.0	2842.9	2846.3	2853.2
10°	2836.0	2846.3	2839.4	2849.8	2839.4	2846.3	2853.2	2856.7
12.5°	2836.0	2846.3	2842.9	2849.8	2846.3	2853.2	2860.1	2867.0
15°	2829.1	2839.4	2832.6	2842.9	2839.4	2842.9	2856.7	2856.7
17.5°	2791.3	2801.6	2801.6	2808.5	2808.5	2818.8	2825.7	2832.6
20°	2743.1	2753.4	2750.0	2760.3	2760.3	2770.6	2777.5	2784.4
22.5°	2670.8	2684.6	2681.1	2691.4	2688.0	2694.9	2708.7	2705.2
25°	2577.9	2595.1	2591.6	2598.5	2595.1	2595.1	2602.0	2605.4
27.5°	2464.3	2474.6	2471.2	2478.1	2471.2	2478.1	2484.9	2488.4
30°	2316.3	2323.2	2319.7	2323.2	2319.7	2326.6	2330.1	2336.9
32.5°	2137.3	2147.7	2137.3	2144.2	2140.8	2140.8	2154.5	2147.7
35°	1923.9	1927.4	1930.8	1930.8	1923.9	1927.4	1934.3	1934.3
37.5°	1686.5	1703.7	1683.0	1693.3	1689.9	1689.9	1689.9	1700.2
40°	1438.7	1442.1	1435.2	1435.2	1435.2	1431.8	1445.5	1442.1
42.5°	1204.6	1208.1	1204.6	1194.3	1197.7	1197.7	1208.1	1194.3
45°	977.5	984.3	980.9	980.9	974.0	974.0	977.5	970.6
47.5°	774.4	781.3	771.0	774.4	767.5	774.4	771.0	777.8
50°	588.5	595.4	592.0	595.4	595.4	588.5	598.9	585.1
52.5°	440.5	444.0	440.5	437.1	433.7	433.7	440.5	437.1
55°	313.2	309.8	309.8	309.8	313.2	313.2	309.8	306.3
57.5°	209.9	209.9	206.5	206.5	209.9	203.1	206.5	203.1
60°	134.2	134.2	134.2	134.2	130.8	134.2	134.2	134.2
62.5°	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
65°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
67.5°	34.4	37.9	37.9	37.9	34.4	34.4	34.4	34.4
70°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
72.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
75°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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)