

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: P252331

Luminaire Tested: **LD6B70D010TE EU6B60709035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252331
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 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: 5675.0 lumens
Efficiency: N/A
Efficacy: 71.4 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

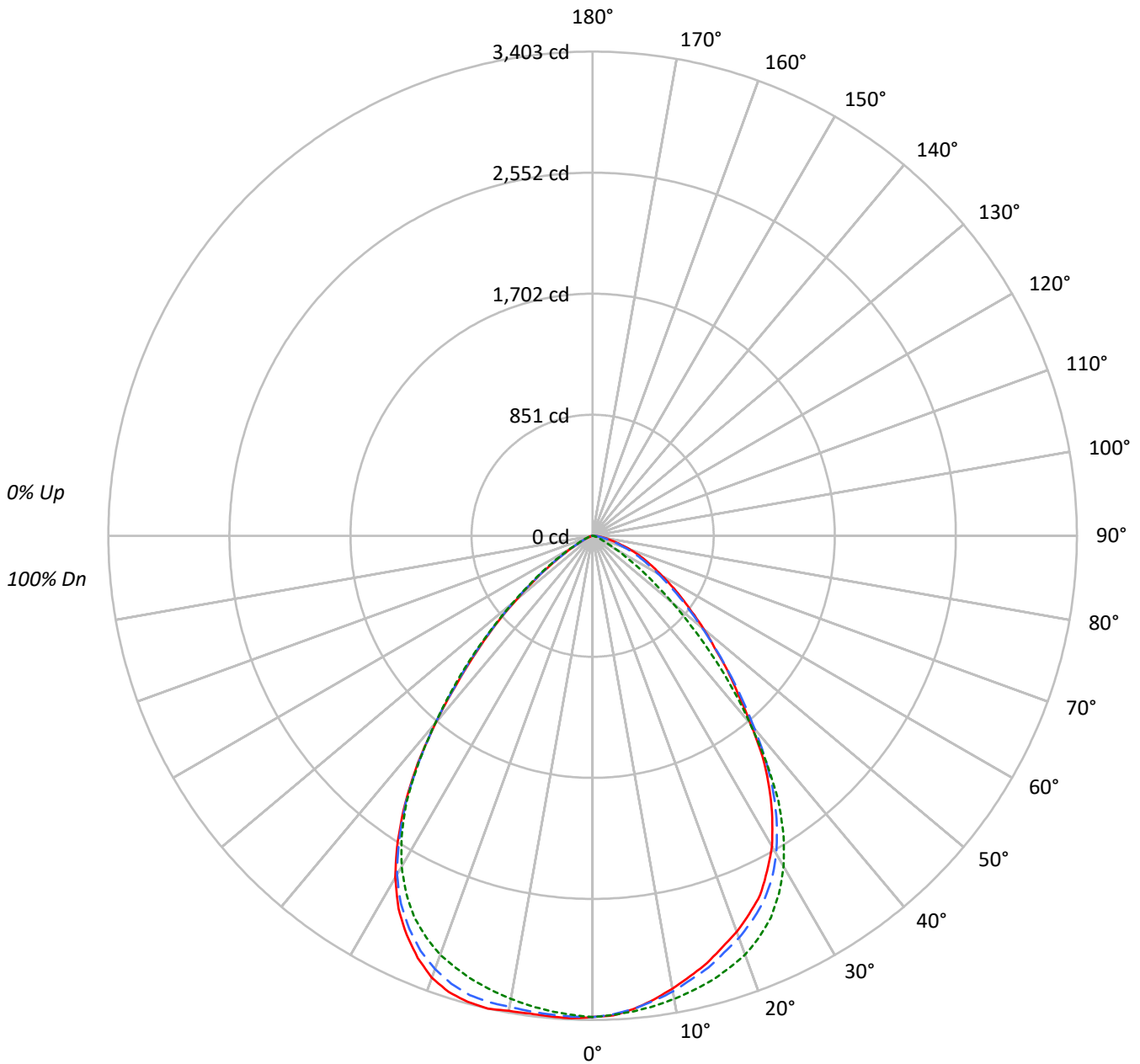
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252331

CATALOG NUMBER: LD6B70D010TE EU6B60709035 6LBSW1H

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°	220683	220683	220683
5°	218585	219659	222063
10°	214077	218947	224631
15°	209982	218539	229022
20°	205638	217545	229458
25°	200565	213213	222621
30°	189885	202202	208967
35°	172445	181230	182863
40°	147175	146476	145786
45°	123634	109684	106298
50°	103242	74224	70489
55°	86900	45543	41357
60°	73565	23982	20786
65°	63694	12612	10096
70°	52991	7802	5455
75°	39121	5142	3100
80°	30695	3081	1540
85°	24478	3069	0



TEST NUMBER: P252331

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	5.6
10°-20°	912.8	16.1
20°-30°	1347.9	23.8
30°-40°	1389.1	24.5
40°-50°	959.5	16.9
50°-60°	472.9	8.3
60°-70°	191.6	3.4
70°-80°	68.3	1.2
80°-90°	14.1	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°	2579.5	45.5
0°-40°	3968.6	69.9
0°-60°	5401.0	95.2
0°-90°	5675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5675.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3383	3383	3383	3383	3383	
5°	3338	3338	3354	3379	3391	315
15°	3109	3142	3236	3342	3391	875
25°	2786	2839	2962	3048	3093	1274
35°	2165	2218	2276	2288	2296	1342
45°	1340	1348	1189	1172	1152	1036
55°	764	735	400	376	364	690
65°	413	372	82	65	65	410
75°	155	131	20	12	12	174
85°	33	24	4	0	0	40
90°	0	0	0	0	0	



TEST NUMBER: P252331

CATALOG NUMBER: LD6B70D010TE EU6B60709035 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6
2.5°	3374.5	3362.2	3370.4	3354.1	3374.5	3354.1	3358.1	3362.2	3358.1	3362.2	3366.3
5°	3337.7	3325.5	3337.7	3317.3	3337.7	3325.5	3325.5	3329.5	3329.5	3333.6	3337.7
7.5°	3288.7	3276.4	3288.7	3268.3	3292.8	3280.5	3280.5	3288.7	3284.6	3288.7	3296.9
10°	3231.5	3215.2	3227.4	3215.2	3239.7	3223.3	3231.5	3231.5	3231.5	3243.7	3251.9
12.5°	3170.2	3153.9	3170.2	3149.8	3174.3	3162.0	3166.1	3178.4	3182.5	3190.6	3194.7
15°	3108.9	3088.5	3096.7	3084.4	3108.9	3096.7	3100.8	3117.1	3117.1	3129.4	3141.6
17.5°	3031.3	3015.0	3031.3	3015.0	3035.4	3027.2	3035.4	3047.7	3047.7	3059.9	3072.2
20°	2961.9	2945.5	2957.8	2945.5	2970.0	2957.8	2961.9	2978.2	2982.3	2994.5	3006.8
22.5°	2876.1	2863.8	2872.0	2859.7	2884.2	2876.1	2880.2	2896.5	2900.6	2908.8	2929.2
25°	2786.2	2761.7	2773.9	2765.8	2790.3	2778.0	2786.2	2802.5	2810.7	2823.0	2839.3
27.5°	2655.5	2643.2	2651.4	2651.4	2671.8	2659.5	2663.6	2680.0	2692.2	2704.5	2724.9
30°	2520.6	2500.2	2508.4	2512.5	2528.8	2520.6	2528.8	2545.2	2549.2	2565.6	2581.9
32.5°	2349.1	2340.9	2357.2	2349.1	2357.2	2357.2	2361.3	2373.6	2381.7	2389.9	2410.3
35°	2165.2	2148.9	2165.2	2157.1	2177.5	2165.2	2177.5	2189.7	2189.7	2206.1	2218.3
37.5°	1965.0	1944.6	1952.8	1952.8	1961.0	1956.9	1956.9	1977.3	1981.4	1993.6	2005.9
40°	1728.1	1719.9	1736.3	1732.2	1736.3	1736.3	1740.3	1752.6	1760.8	1764.9	1768.9
42.5°	1515.7	1519.7	1523.8	1523.8	1523.8	1523.8	1523.8	1540.2	1536.1	1548.3	1552.4
45°	1340.0	1323.6	1331.8	1327.7	1340.0	1327.7	1340.0	1352.2	1344.1	1356.3	1348.2
47.5°	1160.2	1160.2	1160.2	1156.1	1164.3	1160.2	1168.4	1172.5	1172.5	1172.5	1168.4
50°	1017.2	1005.0	1009.1	1009.1	1013.2	1009.1	1017.2	1021.3	1021.3	1013.2	996.8
52.5°	878.3	874.3	874.3	882.4	882.4	878.3	878.3	878.3	878.3	866.1	857.9
55°	764.0	755.8	759.9	759.9	759.9	759.9	764.0	759.9	759.9	747.6	735.4
57.5°	661.8	653.7	653.7	653.7	657.7	653.7	653.7	653.7	649.6	637.3	621.0
60°	563.8	559.7	563.8	563.8	567.9	563.8	563.8	563.8	555.6	543.3	527.0
62.5°	482.1	482.1	482.1	486.2	486.2	482.1	482.1	478.0	473.9	457.6	441.2
65°	412.6	408.5	412.6	412.6	416.7	416.7	412.6	408.5	404.4	388.1	371.8
67.5°	343.2	339.1	343.2	343.2	347.3	343.2	343.2	343.2	330.9	322.7	306.4
70°	277.8	273.7	273.7	273.7	277.8	269.6	273.7	273.7	265.5	253.3	236.9
72.5°	212.4	212.4	212.4	212.4	212.4	212.4	208.4	208.4	200.2	187.9	179.8
75°	155.2	155.2	159.3	159.3	155.2	155.2	155.2	151.2	147.1	138.9	130.7
77.5°	114.4	114.4	114.4	114.4	110.3	110.3	110.3	106.2	102.1	98.0	89.9
80°	81.7	81.7	81.7	77.6	81.7	77.6	77.6	77.6	69.5	65.4	61.3
82.5°	57.2	53.1	53.1	53.1	53.1	53.1	53.1	49.0	49.0	44.9	40.9
85°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	28.6	24.5	24.5
87.5°	16.3	20.4	20.4	20.4	20.4	20.4	20.4	16.3	16.3	16.3	12.3
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: P252331

CATALOG NUMBER: LD6B70D010TE EU6B60709035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6
2.5°	3366.3	3366.3	3374.5	3362.2	3382.6	3370.4	3366.3	3386.7	3374.5	3370.4	3378.6
5°	3337.7	3341.8	3345.9	3337.7	3358.1	3345.9	3345.9	3366.3	3358.1	3354.1	3366.3
7.5°	3300.9	3305.0	3313.2	3309.1	3325.5	3317.3	3321.4	3341.8	3333.6	3333.6	3345.9
10°	3256.0	3264.2	3272.3	3272.3	3292.8	3284.6	3284.6	3309.1	3300.9	3305.0	3321.4
12.5°	3202.9	3215.2	3227.4	3231.5	3251.9	3239.7	3243.7	3272.3	3268.3	3272.3	3288.7
15°	3145.7	3162.0	3174.3	3174.3	3198.8	3186.6	3198.8	3227.4	3219.2	3235.6	3256.0
17.5°	3080.3	3096.7	3113.0	3117.1	3141.6	3133.4	3149.8	3178.4	3178.4	3186.6	3211.1
20°	3019.1	3039.5	3047.7	3059.9	3084.4	3080.3	3088.5	3121.2	3121.2	3133.4	3158.0
22.5°	2937.3	2957.8	2974.1	2986.4	3006.8	3006.8	3019.1	3047.7	3047.7	3055.8	3080.3
25°	2847.5	2872.0	2884.2	2896.5	2916.9	2912.8	2925.1	2949.6	2953.7	2961.9	2986.4
27.5°	2733.1	2753.5	2769.9	2778.0	2806.6	2790.3	2802.5	2831.1	2827.0	2835.2	2855.6
30°	2590.1	2610.5	2626.9	2626.9	2651.4	2651.4	2663.6	2675.9	2675.9	2684.1	2700.4
32.5°	2422.6	2447.1	2447.1	2459.4	2475.7	2459.4	2475.7	2492.0	2483.9	2496.1	2508.4
35°	2230.6	2242.8	2246.9	2246.9	2259.2	2255.1	2251.0	2263.3	2255.1	2275.5	2287.8
37.5°	1997.7	2014.1	2005.9	2014.1	2010.0	1997.7	1997.7	2018.2	2001.8	2005.9	2018.2
40°	1773.0	1773.0	1768.9	1748.5	1752.6	1740.3	1736.3	1740.3	1724.0	1719.9	1736.3
42.5°	1540.2	1536.1	1523.8	1495.2	1499.3	1478.9	1462.5	1462.5	1454.4	1450.3	1454.4
45°	1331.8	1319.6	1299.1	1266.5	1258.3	1241.9	1209.3	1201.1	1188.8	1188.8	1192.9
47.5°	1139.8	1123.5	1090.8	1054.0	1033.6	1013.2	980.5	968.2	947.8	939.6	947.8
50°	980.5	951.9	911.0	857.9	837.5	813.0	780.3	759.9	739.4	731.3	727.2
52.5°	833.4	792.6	751.7	686.3	670.0	645.5	600.5	580.1	559.7	543.3	543.3
55°	706.8	670.0	612.8	551.5	527.0	502.5	457.6	429.0	408.5	400.4	392.2
57.5°	592.4	551.5	498.4	433.0	408.5	384.0	339.1	310.5	290.1	277.8	269.6
60°	498.4	453.5	400.4	343.2	314.6	290.1	245.1	216.5	196.1	183.8	175.7
62.5°	408.5	371.8	318.7	265.5	241.0	216.5	179.8	151.2	130.7	122.6	110.3
65°	343.2	306.4	257.4	212.4	192.0	167.5	134.8	110.3	94.0	81.7	73.5
67.5°	277.8	249.2	208.4	167.5	147.1	130.7	102.1	81.7	65.4	57.2	53.1
70°	220.6	192.0	159.3	126.6	114.4	98.0	77.6	57.2	49.0	40.9	36.8
72.5°	163.4	143.0	118.5	94.0	81.7	73.5	53.1	44.9	32.7	28.6	24.5
75°	118.5	102.1	85.8	65.4	57.2	53.1	40.9	28.6	24.5	20.4	16.3
77.5°	81.7	73.5	57.2	44.9	40.9	36.8	28.6	20.4	16.3	12.3	12.3
80°	53.1	44.9	36.8	28.6	28.6	24.5	16.3	12.3	12.3	8.2	8.2
82.5°	32.7	28.6	24.5	20.4	16.3	16.3	12.3	8.2	8.2	4.1	4.1
85°	20.4	16.3	12.3	12.3	8.2	8.2	8.2	4.1	4.1	4.1	4.1
87.5°	8.2	8.2	8.2	4.1	4.1	4.1	4.1	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: P252331

CATALOG NUMBER: LD6B70D010TE EU6B60709035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6
2.5°	3378.6	3378.6	3386.7	3374.5	3382.6	3382.6	3390.8	3374.5	3382.6	3386.7	3394.9
5°	3362.2	3366.3	3374.5	3370.4	3374.5	3374.5	3382.6	3362.2	3378.6	3378.6	3390.8
7.5°	3345.9	3345.9	3354.1	3350.0	3358.1	3362.2	3370.4	3354.1	3370.4	3370.4	3382.6
10°	3325.5	3325.5	3337.7	3333.6	3345.9	3350.0	3362.2	3345.9	3362.2	3366.3	3378.6
12.5°	3296.9	3300.9	3313.2	3313.2	3325.5	3333.6	3345.9	3337.7	3358.1	3362.2	3378.6
15°	3264.2	3272.3	3288.7	3284.6	3296.9	3309.1	3325.5	3313.2	3341.8	3350.0	3366.3
17.5°	3223.3	3231.5	3243.7	3243.7	3256.0	3264.2	3284.6	3276.4	3300.9	3305.0	3325.5
20°	3162.0	3174.3	3190.6	3186.6	3198.8	3207.0	3223.3	3215.2	3239.7	3247.8	3268.3
22.5°	3088.5	3096.7	3108.9	3108.9	3121.2	3129.4	3145.7	3133.4	3158.0	3162.0	3178.4
25°	2990.5	2998.6	3006.8	3010.9	3023.1	3027.2	3035.4	3027.2	3047.7	3051.7	3072.2
27.5°	2863.8	2867.9	2880.2	2880.2	2888.3	2892.4	2904.7	2888.3	2916.9	2916.9	2929.2
30°	2712.7	2708.6	2724.9	2716.7	2724.9	2724.9	2737.2	2729.0	2749.4	2741.3	2753.5
32.5°	2512.5	2520.6	2520.6	2512.5	2528.8	2524.7	2524.7	2516.6	2528.8	2532.9	2541.1
35°	2279.6	2291.9	2291.9	2296.0	2300.0	2287.8	2291.9	2267.4	2287.8	2291.9	2296.0
37.5°	2026.3	2014.1	2022.2	2010.0	2030.4	2005.9	2005.9	1989.6	2005.9	2005.9	2010.0
40°	1736.3	1732.2	1740.3	1732.2	1728.1	1724.0	1715.8	1703.6	1719.9	1711.8	1724.0
42.5°	1462.5	1458.5	1458.5	1450.3	1446.2	1446.2	1438.0	1429.9	1425.8	1425.8	1446.2
45°	1180.7	1188.8	1180.7	1176.6	1184.7	1176.6	1180.7	1164.3	1172.5	1164.3	1172.5
47.5°	943.7	947.8	939.6	931.5	943.7	931.5	931.5	919.2	935.5	935.5	927.4
50°	731.3	727.2	719.0	727.2	723.1	723.1	723.1	710.8	719.0	706.8	714.9
52.5°	539.3	535.2	535.2	531.1	535.2	531.1	531.1	527.0	527.0	522.9	527.0
55°	392.2	388.1	379.9	379.9	379.9	384.0	379.9	375.8	375.8	371.8	375.8
57.5°	265.5	257.4	257.4	257.4	257.4	253.3	253.3	249.2	253.3	249.2	253.3
60°	171.6	171.6	163.4	163.4	163.4	163.4	163.4	159.3	163.4	163.4	163.4
62.5°	106.2	106.2	102.1	98.0	102.1	98.0	98.0	98.0	102.1	98.0	102.1
65°	69.5	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
67.5°	49.0	44.9	44.9	44.9	44.9	44.9	44.9	40.9	44.9	44.9	44.9
70°	32.7	32.7	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	16.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	12.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	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	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P252331

CATALOG NUMBER: LD6B70D010TE EU6B60709035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6
2.5°	3382.6	3386.7	3378.6	3382.6	3374.5	3382.6	3386.7	3394.9
5°	3374.5	3378.6	3370.4	3378.6	3370.4	3378.6	3382.6	3390.8
7.5°	3366.3	3374.5	3366.3	3374.5	3366.3	3374.5	3378.6	3386.7
10°	3366.3	3378.6	3370.4	3382.6	3370.4	3378.6	3386.7	3390.8
12.5°	3366.3	3378.6	3374.5	3382.6	3378.6	3386.7	3394.9	3403.1
15°	3358.1	3370.4	3362.2	3374.5	3370.4	3374.5	3390.8	3390.8
17.5°	3313.2	3325.5	3325.5	3333.6	3333.6	3345.9	3354.1	3362.2
20°	3256.0	3268.3	3264.2	3276.4	3276.4	3288.7	3296.9	3305.0
22.5°	3170.2	3186.6	3182.5	3194.7	3190.6	3198.8	3215.2	3211.1
25°	3059.9	3080.3	3076.2	3084.4	3080.3	3080.3	3088.5	3092.6
27.5°	2925.1	2937.3	2933.3	2941.4	2933.3	2941.4	2949.6	2953.7
30°	2749.4	2757.6	2753.5	2757.6	2753.5	2761.7	2765.8	2773.9
32.5°	2537.0	2549.2	2537.0	2545.2	2541.1	2541.1	2557.4	2549.2
35°	2283.7	2287.8	2291.9	2291.9	2283.7	2287.8	2296.0	2296.0
37.5°	2001.8	2022.2	1997.7	2010.0	2005.9	2005.9	2005.9	2018.2
40°	1707.7	1711.8	1703.6	1703.6	1703.6	1699.5	1715.8	1711.8
42.5°	1429.9	1433.9	1429.9	1417.6	1421.7	1421.7	1433.9	1417.6
45°	1160.2	1168.4	1164.3	1164.3	1156.1	1156.1	1160.2	1152.1
47.5°	919.2	927.4	915.1	919.2	911.0	919.2	915.1	923.3
50°	698.6	706.8	702.7	706.8	706.8	698.6	710.8	694.5
52.5°	522.9	527.0	522.9	518.8	514.8	514.8	522.9	518.8
55°	371.8	367.7	367.7	367.7	371.8	371.8	367.7	363.6
57.5°	249.2	249.2	245.1	245.1	249.2	241.0	245.1	241.0
60°	159.3	159.3	159.3	159.3	155.2	159.3	159.3	159.3
62.5°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
65°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
67.5°	40.9	44.9	44.9	44.9	40.9	40.9	40.9	40.9
70°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	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)