

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: P252182

Luminaire Tested: **LD6B40D010 EU6B30508035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30508035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5450.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

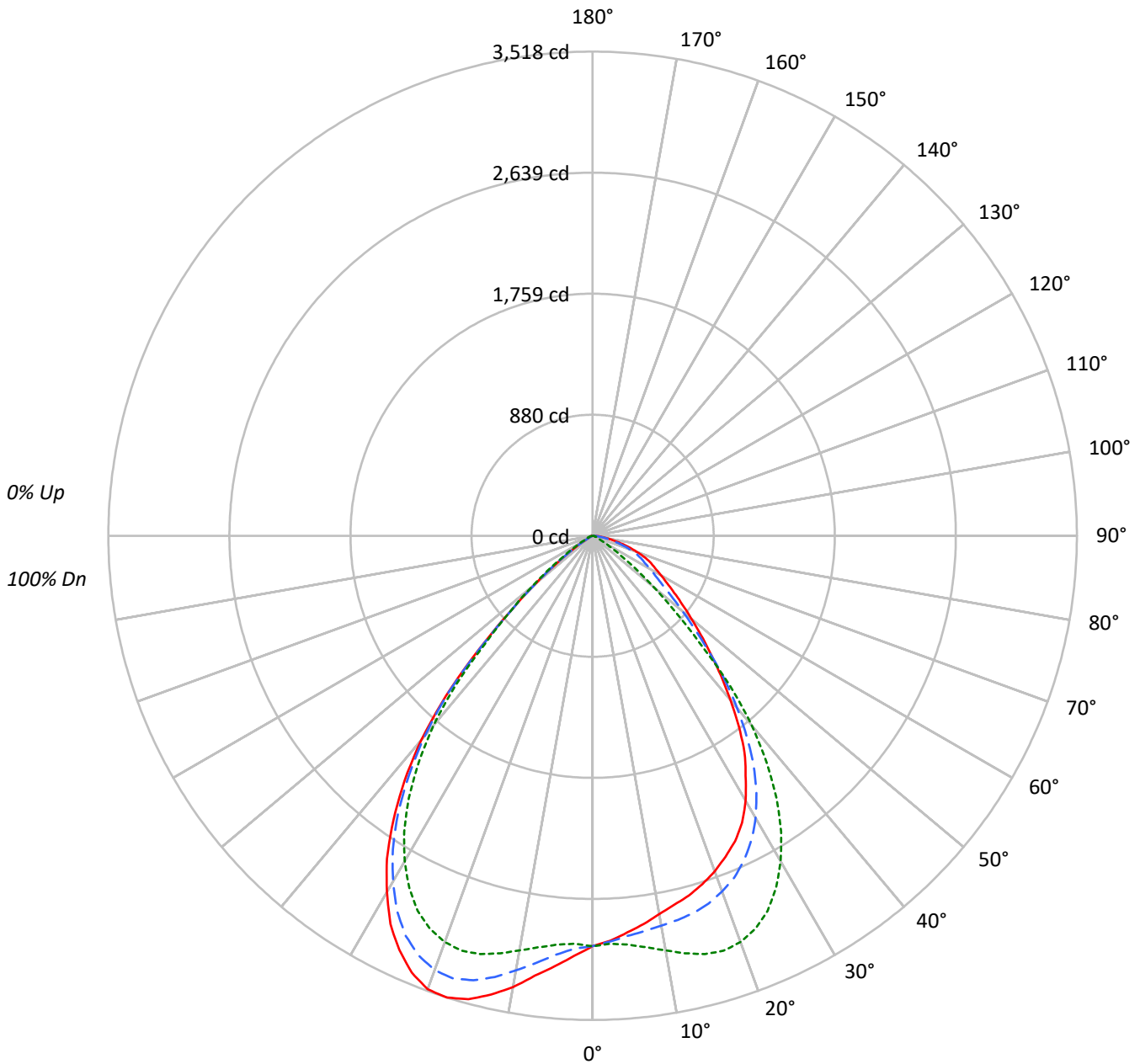
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	194521	194521	194521
5°	189475	195264	205533
10°	184869	202617	220556
15°	182708	212548	235458
20°	180088	218086	243420
25°	176255	216473	239048
30°	167496	205713	225043
35°	153243	185475	200918
40°	132552	153179	164838
45°	111769	100466	107829
50°	94899	58147	54676
55°	82350	27879	21077
60°	74387	13022	5206
65°	72169	7487	1760
70°	64703	5990	1640
75°	53162	4310	731
80°	39637	2142	0
85°	34134	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	5.3
10°-20°	877.7	16.1
20°-30°	1341.0	24.6
30°-40°	1402.6	25.7
40°-50°	909.9	16.7
50°-60°	361.3	6.6
60°-70°	171.4	3.1
70°-80°	81.5	1.5
80°-90°	16.6	0.3
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°	2506.7	46.0
0°-40°	3909.3	71.7
0°-60°	5180.5	95.1
0°-90°	5450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5450.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2982	2982	2982	2982	2982	
5°	2893	2919	2982	3056	3138	273
15°	2705	2836	3147	3344	3486	762
25°	2448	2602	3007	3210	3321	1121
35°	1924	2041	2329	2466	2523	1190
45°	1211	1200	1089	1154	1169	943
55°	724	616	245	191	185	656
65°	468	388	48	11	11	457
75°	211	171	17	6	3	227
85°	46	28	0	0	0	53
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°	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6
2.5°	2944.5	2950.2	2918.9	2910.3	2933.1	2941.7	2944.5	2936.0	2938.8	2950.2	2950.2
5°	2893.2	2898.9	2870.4	2861.9	2884.7	2890.4	2898.9	2896.1	2904.6	2921.7	2918.9
7.5°	2844.8	2853.3	2822.0	2810.6	2839.1	2853.3	2859.0	2859.0	2870.4	2893.2	2896.1
10°	2790.6	2802.0	2773.5	2767.8	2799.2	2813.4	2816.3	2822.0	2839.1	2870.4	2876.1
12.5°	2745.0	2756.4	2736.4	2727.9	2762.1	2776.3	2782.0	2793.4	2813.4	2853.3	2859.0
15°	2705.1	2713.6	2690.8	2685.1	2719.3	2736.4	2739.3	2756.4	2782.0	2827.7	2836.2
17.5°	2653.8	2659.5	2642.4	2636.7	2670.9	2688.0	2690.8	2710.8	2742.1	2787.7	2802.0
20°	2593.9	2599.6	2582.5	2576.8	2611.0	2631.0	2633.8	2650.9	2688.0	2736.4	2750.7
22.5°	2522.7	2534.1	2514.1	2508.4	2542.6	2559.7	2568.3	2582.5	2619.6	2668.0	2688.0
25°	2448.5	2448.5	2434.3	2431.4	2462.8	2482.7	2479.9	2499.9	2536.9	2585.4	2602.5
27.5°	2351.6	2348.8	2334.5	2331.7	2365.9	2383.0	2377.3	2397.2	2431.4	2479.9	2497.0
30°	2223.4	2229.1	2209.1	2203.4	2231.9	2260.4	2257.6	2277.5	2311.7	2357.3	2368.7
32.5°	2069.4	2075.1	2072.3	2063.7	2089.4	2103.6	2112.2	2126.4	2154.9	2203.4	2214.8
35°	1924.1	1915.5	1904.1	1904.1	1929.8	1952.6	1944.0	1961.1	1989.6	2038.1	2040.9
37.5°	1744.5	1741.6	1735.9	1730.2	1758.7	1764.4	1767.3	1778.7	1804.3	1844.2	1838.5
40°	1556.4	1559.2	1556.4	1544.9	1562.1	1584.9	1582.0	1587.7	1610.5	1639.0	1630.5
42.5°	1379.6	1379.6	1379.6	1368.2	1388.2	1399.6	1405.3	1402.4	1408.1	1433.8	1422.4
45°	1211.4	1214.3	1211.4	1208.6	1211.4	1217.1	1211.4	1208.6	1208.6	1217.1	1200.0
47.5°	1066.1	1066.1	1057.5	1049.0	1057.5	1060.4	1051.8	1043.3	1040.4	1037.6	1009.1
50°	935.0	932.1	929.2	915.0	923.5	926.4	915.0	909.3	897.9	883.6	849.4
52.5°	820.9	818.1	815.2	801.0	806.7	809.5	798.1	786.7	772.5	761.1	718.3
55°	724.0	721.2	721.2	712.6	706.9	712.6	701.2	692.7	672.7	658.5	615.7
57.5°	641.4	641.4	635.7	627.1	630.0	630.0	618.5	607.1	590.0	572.9	538.7
60°	570.1	570.1	570.1	561.5	561.5	561.5	555.8	544.4	530.2	513.1	478.9
62.5°	513.1	513.1	510.2	501.7	504.5	504.5	498.8	487.4	473.2	461.8	427.6
65°	467.5	467.5	467.5	458.9	458.9	461.8	456.1	444.7	433.3	419.0	387.7
67.5°	410.5	407.6	407.6	401.9	404.8	407.6	401.9	393.4	379.1	370.6	342.1
70°	339.2	342.1	344.9	336.4	339.2	339.2	336.4	327.8	319.3	310.7	285.0
72.5°	276.5	276.5	273.6	270.8	270.8	273.6	267.9	259.4	253.7	248.0	228.0
75°	210.9	208.1	210.9	205.2	205.2	205.2	199.5	196.7	193.8	185.3	171.0
77.5°	153.9	151.1	151.1	145.4	148.2	148.2	145.4	139.7	134.0	131.1	119.7
80°	105.5	105.5	105.5	102.6	102.6	99.8	99.8	96.9	91.2	88.4	82.7
82.5°	71.3	71.3	71.3	68.4	68.4	68.4	65.6	62.7	59.9	57.0	51.3
85°	45.6	45.6	45.6	42.8	42.8	42.8	39.9	39.9	37.1	34.2	28.5
87.5°	25.7	25.7	25.7	22.8	22.8	22.8	22.8	22.8	20.0	17.1	14.3
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°	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6
2.5°	2970.2	2930.3	2955.9	2955.9	2947.4	2970.2	2984.4	2995.8	2993.0	2967.3	2964.5
5°	2947.4	2913.2	2941.7	2944.5	2936.0	2967.3	2987.3	3001.5	3004.4	2981.6	2984.4
7.5°	2930.3	2901.8	2938.8	2950.2	2947.4	2975.9	2998.7	3021.5	3032.9	3015.8	3018.6
10°	2921.7	2898.9	2938.8	2955.9	2958.8	2990.1	3024.3	3055.7	3069.9	3058.5	3067.1
12.5°	2910.3	2896.1	2941.7	2967.3	2978.7	3010.1	3052.8	3089.9	3112.7	3107.0	3124.1
15°	2898.9	2887.5	2941.7	2978.7	2993.0	3021.5	3069.9	3124.1	3149.8	3146.9	3169.7
17.5°	2870.4	2867.6	2924.6	2964.5	2984.4	3018.6	3064.2	3129.8	3155.5	3161.2	3189.7
20°	2824.8	2824.8	2887.5	2930.3	2953.1	2984.4	3041.4	3104.1	3135.5	3141.2	3172.6
22.5°	2762.1	2767.8	2827.7	2870.4	2904.6	2927.4	2987.3	3052.8	3081.3	3089.9	3124.1
25°	2679.4	2685.1	2742.1	2784.9	2822.0	2847.6	2904.6	2964.5	2998.7	3007.2	3032.9
27.5°	2571.1	2582.5	2636.7	2679.4	2710.8	2727.9	2787.7	2850.5	2876.1	2884.7	2910.3
30°	2445.7	2448.5	2502.7	2539.8	2571.1	2585.4	2636.7	2702.2	2722.2	2730.7	2767.8
32.5°	2291.8	2288.9	2340.2	2374.4	2400.1	2417.2	2471.3	2514.1	2534.1	2548.3	2568.3
35°	2106.5	2103.6	2140.7	2180.6	2200.6	2206.3	2260.4	2306.0	2317.4	2328.8	2354.5
37.5°	1898.4	1898.4	1929.8	1949.7	1972.5	1981.1	2006.7	2058.0	2078.0	2075.1	2095.1
40°	1678.9	1667.5	1690.3	1710.3	1716.0	1718.8	1744.5	1784.4	1798.6	1798.6	1812.9
42.5°	1448.0	1430.9	1433.8	1445.2	1450.9	1430.9	1448.0	1473.7	1465.1	1476.5	1479.4
45°	1202.9	1177.2	1165.8	1140.2	1145.9	1125.9	1114.5	1120.2	1117.4	1088.9	1094.6
47.5°	1003.4	957.8	937.8	900.7	892.2	869.4	855.1	829.5	806.7	806.7	792.4
50°	835.2	789.6	749.7	706.9	692.7	672.7	641.4	607.1	590.0	572.9	558.7
52.5°	701.2	652.8	604.3	558.7	538.7	513.1	470.3	436.1	404.8	387.7	370.6
55°	592.9	538.7	487.4	439.0	413.3	387.7	344.9	305.0	267.9	245.1	230.9
57.5°	510.2	458.9	404.8	353.5	330.7	302.1	256.5	213.8	179.6	153.9	139.7
60°	450.4	399.1	350.6	296.4	273.6	245.1	196.7	156.8	122.6	99.8	82.7
62.5°	399.1	353.5	302.1	253.7	230.9	202.4	156.8	116.9	85.5	62.7	48.5
65°	362.0	316.4	273.6	225.2	205.2	176.7	134.0	96.9	68.4	48.5	34.2
67.5°	319.3	279.3	236.6	196.7	176.7	153.9	114.0	82.7	57.0	39.9	28.5
70°	267.9	236.6	199.5	162.5	148.2	128.3	94.1	68.4	45.6	31.4	22.8
72.5°	213.8	188.1	159.6	131.1	119.7	99.8	77.0	54.2	34.2	22.8	17.1
75°	162.5	142.5	119.7	99.8	88.4	77.0	57.0	39.9	25.7	17.1	11.4
77.5°	111.2	102.6	85.5	68.4	62.7	54.2	37.1	25.7	17.1	11.4	5.7
80°	77.0	68.4	57.0	45.6	39.9	34.2	22.8	17.1	8.6	5.7	2.9
82.5°	48.5	39.9	34.2	28.5	25.7	20.0	14.3	8.6	5.7	2.9	2.9
85°	25.7	22.8	20.0	14.3	14.3	11.4	8.6	5.7	2.9	0.0	0.0
87.5°	14.3	11.4	8.6	5.7	5.7	2.9	2.9	2.9	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°	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6
2.5°	2998.7	2998.7	2995.8	3030.0	2990.1	3030.0	3010.1	3030.0	3001.5	2998.7	3001.5
5°	3021.5	3030.0	3032.9	3064.2	3027.2	3075.6	3058.5	3075.6	3055.7	3061.4	3069.9
7.5°	3067.1	3081.3	3078.5	3118.4	3081.3	3135.5	3124.1	3149.8	3129.8	3135.5	3146.9
10°	3118.4	3135.5	3138.4	3178.3	3144.1	3209.6	3195.4	3223.9	3206.8	3215.3	3229.6
12.5°	3178.3	3198.2	3201.1	3246.7	3209.6	3278.0	3269.5	3298.0	3283.7	3292.3	3309.4
15°	3223.9	3252.4	3258.1	3303.7	3263.8	3335.0	3329.3	3366.4	3343.6	3357.8	3372.1
17.5°	3246.7	3272.3	3283.7	3326.5	3292.3	3363.5	3357.8	3389.2	3372.1	3386.3	3403.4
20°	3232.4	3263.8	3272.3	3315.1	3280.9	3352.1	3343.6	3374.9	3357.8	3369.2	3386.3
22.5°	3181.1	3212.5	3223.9	3263.8	3232.4	3298.0	3295.1	3323.6	3300.8	3315.1	3329.3
25°	3089.9	3124.1	3129.8	3166.9	3132.7	3201.1	3195.4	3226.7	3209.6	3218.2	3238.1
27.5°	2958.8	2998.7	3007.2	3038.6	3012.9	3069.9	3069.9	3095.6	3075.6	3075.6	3095.6
30°	2802.0	2841.9	2847.6	2873.3	2850.5	2901.8	2904.6	2930.3	2898.9	2916.0	2918.9
32.5°	2611.0	2636.7	2653.8	2676.6	2642.4	2707.9	2699.4	2719.3	2702.2	2702.2	2716.5
35°	2380.1	2411.5	2420.0	2448.5	2420.0	2471.3	2471.3	2482.7	2465.6	2465.6	2488.5
37.5°	2129.3	2152.1	2154.9	2183.5	2160.6	2203.4	2200.6	2209.1	2192.0	2203.4	2203.4
40°	1835.7	1852.8	1858.5	1872.8	1869.9	1901.3	1898.4	1904.1	1895.6	1898.4	1904.1
42.5°	1493.6	1516.4	1527.8	1539.2	1522.1	1564.9	1556.4	1564.9	1562.1	1564.9	1573.5
45°	1100.3	1117.4	1125.9	1128.8	1123.1	1148.7	1168.7	1151.6	1154.4	1148.7	1160.1
47.5°	795.3	798.1	792.4	809.5	795.3	806.7	812.4	815.2	798.1	795.3	806.7
50°	544.4	558.7	538.7	547.3	544.4	555.8	550.1	553.0	535.9	544.4	538.7
52.5°	362.0	359.2	353.5	356.3	350.6	350.6	350.6	356.3	344.9	339.2	333.5
55°	219.5	213.8	202.4	199.5	199.5	202.4	196.7	191.0	191.0	188.1	188.1
57.5°	128.3	119.7	114.0	111.2	105.5	102.6	99.8	99.8	94.1	94.1	94.1
60°	71.3	62.7	57.0	51.3	51.3	48.5	45.6	42.8	42.8	42.8	39.9
62.5°	37.1	31.4	25.7	22.8	22.8	20.0	17.1	17.1	17.1	17.1	14.3
65°	25.7	20.0	17.1	14.3	14.3	11.4	11.4	11.4	11.4	11.4	11.4
67.5°	20.0	17.1	14.3	11.4	11.4	11.4	8.6	8.6	8.6	8.6	8.6
70°	17.1	11.4	11.4	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
72.5°	11.4	11.4	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	8.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	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: P252182

CATALOG NUMBER: LD6B40D010 EU6B30508035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6	2981.6
2.5°	3027.2	3024.3	3027.2	3032.9	3021.5	3055.7	3038.6	3055.7
5°	3092.7	3095.6	3098.4	3107.0	3092.7	3135.5	3112.7	3138.4
7.5°	3178.3	3181.1	3184.0	3192.5	3184.0	3226.7	3201.1	3223.9
10°	3266.6	3272.3	3272.3	3286.6	3278.0	3317.9	3300.8	3329.3
12.5°	3349.3	3355.0	3360.7	3369.2	3363.5	3406.3	3392.0	3414.8
15°	3414.8	3426.3	3429.1	3440.5	3434.8	3480.4	3463.3	3486.1
17.5°	3446.2	3457.6	3457.6	3471.9	3466.2	3514.6	3491.8	3517.5
20°	3429.1	3437.7	3440.5	3454.8	3449.1	3497.5	3474.7	3506.1
22.5°	3374.9	3377.8	3380.6	3394.9	3392.0	3434.8	3414.8	3434.8
25°	3275.2	3283.7	3280.9	3292.3	3292.3	3326.5	3303.7	3320.8
27.5°	3132.7	3141.2	3141.2	3155.5	3144.1	3178.3	3155.5	3181.1
30°	2958.8	2967.3	2961.6	2973.0	2961.6	2995.8	2978.7	2987.3
32.5°	2750.7	2750.7	2753.5	2756.4	2750.7	2782.0	2764.9	2782.0
35°	2502.7	2508.4	2511.3	2514.1	2508.4	2531.2	2511.3	2522.7
37.5°	2223.4	2237.6	2234.8	2237.6	2229.1	2257.6	2240.5	2246.2
40°	1924.1	1924.1	1921.2	1926.9	1918.4	1941.2	1929.8	1935.5
42.5°	1576.3	1584.9	1573.5	1587.7	1564.9	1596.3	1584.9	1576.3
45°	1182.9	1171.5	1168.7	1171.5	1163.0	1165.8	1174.4	1168.7
47.5°	806.7	806.7	801.0	792.4	803.8	806.7	795.3	795.3
50°	541.6	541.6	535.9	533.0	538.7	535.9	530.2	538.7
52.5°	344.9	333.5	333.5	339.2	333.5	327.8	336.4	330.7
55°	188.1	182.4	182.4	188.1	182.4	182.4	179.6	185.3
57.5°	91.2	94.1	91.2	91.2	91.2	91.2	88.4	91.2
60°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
62.5°	17.1	17.1	14.3	14.3	14.3	14.3	14.3	14.3
65°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
67.5°	8.6	8.6	8.6	8.6	8.6	11.4	8.6	8.6
70°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
72.5°	8.6	8.6	11.4	11.4	11.4	11.4	11.4	11.4
75°	5.7	5.7	5.7	2.9	2.9	2.9	2.9	2.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)