

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: P252218

Luminaire Tested: **LD6B60D010TE EU6B60709730 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252218
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: LD6B60D010TE EU6B60709730 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5675.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

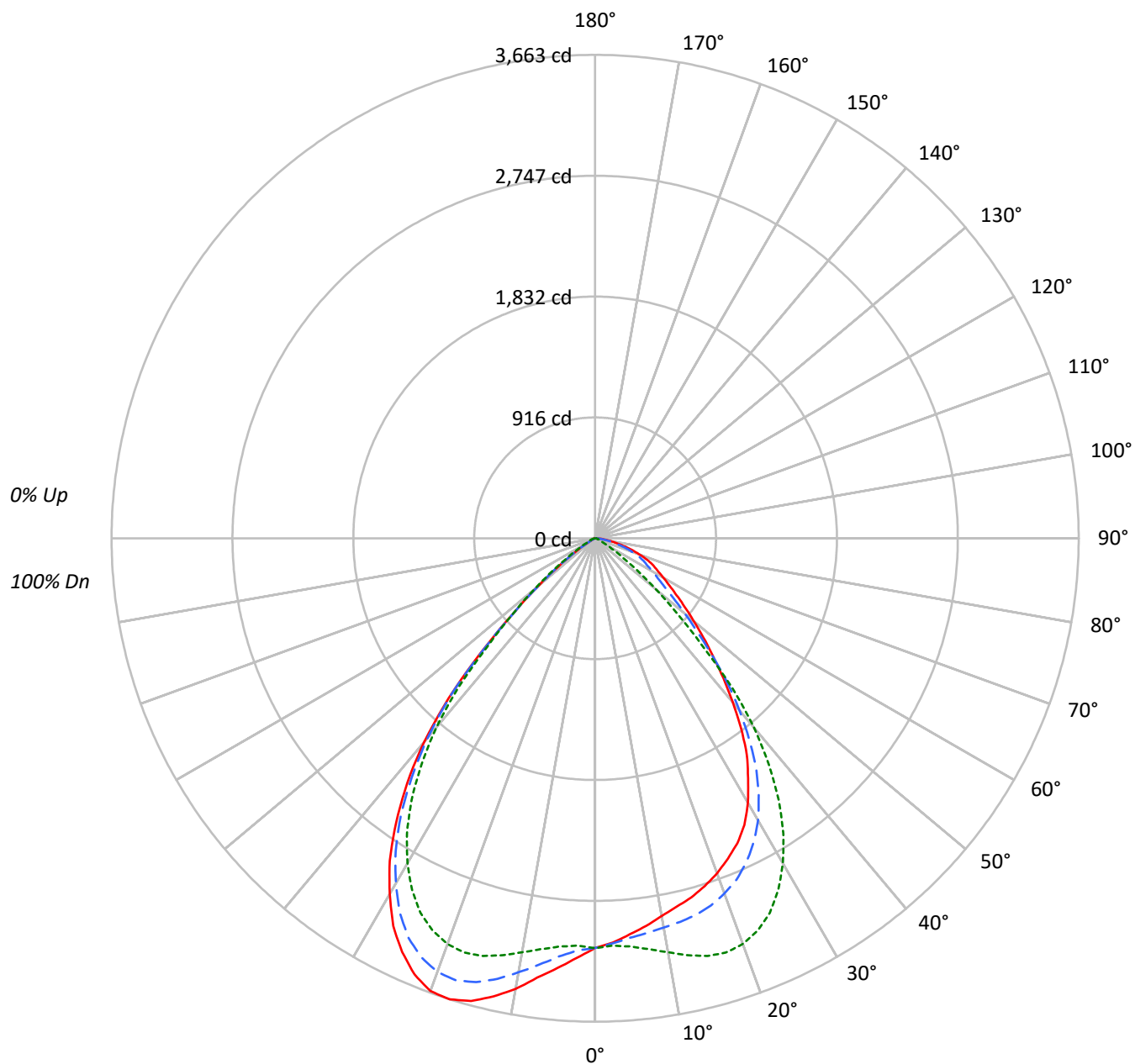
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	103	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	89	83	78	95	88	82	78	85	80	76		83	78	75		80
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68
6	80	69	61	56	78	68	61	56	66	60	55		64	59	55		63
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	202553	202553	202553
5°	197301	203326	214014
10°	192501	210984	229665
15°	190252	221322	245178
20°	187524	227091	253466
25°	183533	225414	248917
30°	174404	214210	234332
35°	159567	193137	209209
40°	138019	159507	171643
45°	116391	104609	112276
50°	98807	60553	56939
55°	85751	29039	21941
60°	77454	13557	5428
65°	75149	7796	1837
70°	67373	6218	1698
75°	55355	4487	756
80°	41252	2217	0
85°	35556	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	5.3
10°-20°	913.9	16.1
20°-30°	1396.4	24.6
30°-40°	1460.5	25.7
40°-50°	947.4	16.7
50°-60°	376.2	6.6
60°-70°	178.5	3.1
70°-80°	84.9	1.5
80°-90°	17.3	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°	2610.2	46.0
0°-40°	4070.7	71.7
0°-60°	5394.4	95.1
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°	3105	3105	3105	3105	3105	
5°	3013	3039	3105	3182	3268	284
15°	2817	2953	3277	3482	3630	794
25°	2550	2710	3131	3342	3458	1168
35°	2004	2125	2425	2567	2627	1239
45°	1262	1250	1134	1202	1217	982
55°	754	641	255	199	193	683
65°	487	404	50	12	12	475
75°	220	178	18	6	3	237
85°	48	30	0	0	0	55
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°	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7
2.5°	3066.1	3072.0	3039.4	3030.5	3054.2	3063.1	3066.1	3057.2	3060.2	3072.0	3072.0
5°	3012.7	3018.6	2988.9	2980.0	3003.8	3009.7	3018.6	3015.6	3024.5	3042.3	3039.4
7.5°	2962.2	2971.1	2938.5	2926.6	2956.3	2971.1	2977.0	2977.0	2988.9	3012.7	3015.6
10°	2905.8	2917.7	2888.0	2882.1	2914.7	2929.6	2932.5	2938.5	2956.3	2988.9	2994.9
12.5°	2858.3	2870.2	2849.4	2840.5	2876.1	2891.0	2896.9	2908.8	2929.6	2971.1	2977.0
15°	2816.8	2825.7	2801.9	2796.0	2831.6	2849.4	2852.4	2870.2	2896.9	2944.4	2953.3
17.5°	2763.3	2769.3	2751.5	2745.5	2781.1	2799.0	2801.9	2822.7	2855.3	2902.8	2917.7
20°	2701.0	2706.9	2689.1	2683.2	2718.8	2739.6	2742.6	2760.4	2799.0	2849.4	2864.3
22.5°	2626.8	2638.7	2617.9	2612.0	2647.6	2665.4	2674.3	2689.1	2727.7	2778.2	2799.0
25°	2549.6	2549.6	2534.8	2531.8	2564.5	2585.2	2582.3	2603.1	2641.6	2692.1	2709.9
27.5°	2448.7	2445.7	2430.9	2427.9	2463.6	2481.4	2475.4	2496.2	2531.8	2582.3	2600.1
30°	2315.1	2321.1	2300.3	2294.4	2324.1	2353.7	2350.8	2371.5	2407.2	2454.7	2466.5
32.5°	2154.9	2160.8	2157.8	2148.9	2175.6	2190.5	2199.4	2214.2	2243.9	2294.4	2306.2
35°	2003.5	1994.6	1982.7	1982.7	2009.4	2033.2	2024.3	2042.1	2071.8	2122.2	2125.2
37.5°	1816.5	1813.5	1807.6	1801.7	1831.3	1837.3	1840.2	1852.1	1878.8	1920.4	1914.4
40°	1620.6	1623.6	1620.6	1608.7	1626.5	1650.3	1647.3	1653.3	1677.0	1706.7	1697.8
42.5°	1436.6	1436.6	1436.6	1424.7	1445.5	1457.4	1463.3	1460.3	1466.3	1493.0	1481.1
45°	1261.5	1264.4	1261.5	1258.5	1261.5	1267.4	1261.5	1258.5	1258.5	1267.4	1249.6
47.5°	1110.1	1110.1	1101.2	1092.3	1101.2	1104.1	1095.2	1086.3	1083.4	1080.4	1050.7
50°	973.5	970.6	967.6	952.8	961.7	964.6	952.8	946.8	935.0	920.1	884.5
52.5°	854.8	851.9	848.9	834.0	840.0	843.0	831.1	819.2	804.4	792.5	748.0
55°	753.9	750.9	750.9	742.0	736.1	742.0	730.2	721.3	700.5	685.6	641.1
57.5°	667.8	667.8	661.9	653.0	656.0	656.0	644.1	632.2	614.4	596.6	561.0
60°	593.6	593.6	593.6	584.7	584.7	584.7	578.8	566.9	552.1	534.3	498.6
62.5°	534.3	534.3	531.3	522.4	525.4	525.4	519.4	507.6	492.7	480.8	445.2
65°	486.8	486.8	486.8	477.9	477.9	480.8	474.9	463.0	451.2	436.3	403.7
67.5°	427.4	424.4	424.4	418.5	421.5	424.4	418.5	409.6	394.8	385.9	356.2
70°	353.2	356.2	359.1	350.2	353.2	353.2	350.2	341.3	332.4	323.5	296.8
72.5°	287.9	287.9	284.9	282.0	282.0	284.9	279.0	270.1	264.2	258.2	237.5
75°	219.6	216.7	219.6	213.7	213.7	213.7	207.8	204.8	201.8	192.9	178.1
77.5°	160.3	157.3	157.3	151.4	154.3	154.3	151.4	145.4	139.5	136.5	124.7
80°	109.8	109.8	109.8	106.9	106.9	103.9	103.9	100.9	95.0	92.0	86.1
82.5°	74.2	74.2	74.2	71.2	71.2	71.2	68.3	65.3	62.3	59.4	53.4
85°	47.5	47.5	47.5	44.5	44.5	44.5	41.6	41.6	38.6	35.6	29.7
87.5°	26.7	26.7	26.7	23.7	23.7	23.7	23.7	23.7	20.8	17.8	14.8
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°	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7
2.5°	3092.8	3051.2	3078.0	3078.0	3069.1	3092.8	3107.6	3119.5	3116.5	3089.8	3086.9
5°	3069.1	3033.4	3063.1	3066.1	3057.2	3089.8	3110.6	3125.4	3128.4	3104.7	3107.6
7.5°	3051.2	3021.6	3060.2	3072.0	3069.1	3098.7	3122.5	3146.2	3158.1	3140.3	3143.3
10°	3042.3	3018.6	3060.2	3078.0	3080.9	3113.6	3149.2	3181.8	3196.7	3184.8	3193.7
12.5°	3030.5	3015.6	3063.1	3089.8	3101.7	3134.4	3178.9	3217.5	3241.2	3235.3	3253.1
15°	3018.6	3006.7	3063.1	3101.7	3116.5	3146.2	3196.7	3253.1	3279.8	3276.8	3300.6
17.5°	2988.9	2985.9	3045.3	3086.9	3107.6	3143.3	3190.7	3259.0	3285.7	3291.7	3321.3
20°	2941.4	2941.4	3006.7	3051.2	3075.0	3107.6	3167.0	3232.3	3265.0	3270.9	3303.5
22.5°	2876.1	2882.1	2944.4	2988.9	3024.5	3048.3	3110.6	3178.9	3208.6	3217.5	3253.1
25°	2790.1	2796.0	2855.3	2899.9	2938.5	2965.2	3024.5	3086.9	3122.5	3131.4	3158.1
27.5°	2677.3	2689.1	2745.5	2790.1	2822.7	2840.5	2902.8	2968.1	2994.9	3003.8	3030.5
30°	2546.7	2549.6	2606.0	2644.6	2677.3	2692.1	2745.5	2813.8	2834.6	2843.5	2882.1
32.5°	2386.4	2383.4	2436.8	2472.5	2499.2	2517.0	2573.4	2617.9	2638.7	2653.5	2674.3
35°	2193.5	2190.5	2229.1	2270.6	2291.4	2297.3	2353.7	2401.2	2413.1	2425.0	2451.7
37.5°	1976.8	1976.8	2009.4	2030.2	2054.0	2062.9	2089.6	2143.0	2163.8	2160.8	2181.6
40°	1748.2	1736.4	1760.1	1780.9	1786.8	1789.8	1816.5	1858.1	1872.9	1872.9	1887.7
42.5°	1507.8	1490.0	1493.0	1504.8	1510.8	1490.0	1507.8	1534.5	1525.6	1537.5	1540.5
45°	1252.6	1225.8	1214.0	1187.3	1193.2	1172.4	1160.5	1166.5	1163.5	1133.8	1139.8
47.5°	1044.8	997.3	976.5	937.9	929.0	905.3	890.4	863.7	840.0	840.0	825.1
50°	869.7	822.2	780.6	736.1	721.3	700.5	667.8	632.2	614.4	596.6	581.8
52.5°	730.2	679.7	629.2	581.8	561.0	534.3	489.7	454.1	421.5	403.7	385.9
55°	617.4	561.0	507.6	457.1	430.4	403.7	359.1	317.6	279.0	255.3	240.4
57.5°	531.3	477.9	421.5	368.0	344.3	314.6	267.1	222.6	187.0	160.3	145.4
60°	469.0	415.5	365.1	308.7	284.9	255.3	204.8	163.2	127.6	103.9	86.1
62.5°	415.5	368.0	314.6	264.2	240.4	210.7	163.2	121.7	89.0	65.3	50.5
65°	377.0	329.5	284.9	234.5	213.7	184.0	139.5	100.9	71.2	50.5	35.6
67.5°	332.4	290.9	246.4	204.8	184.0	160.3	118.7	86.1	59.4	41.6	29.7
70°	279.0	246.4	207.8	169.2	154.3	133.6	97.9	71.2	47.5	32.6	23.7
72.5°	222.6	195.9	166.2	136.5	124.7	103.9	80.1	56.4	35.6	23.7	17.8
75°	169.2	148.4	124.7	103.9	92.0	80.1	59.4	41.6	26.7	17.8	11.9
77.5°	115.8	106.9	89.0	71.2	65.3	56.4	38.6	26.7	17.8	11.9	5.9
80°	80.1	71.2	59.4	47.5	41.6	35.6	23.7	17.8	8.9	5.9	3.0
82.5°	50.5	41.6	35.6	29.7	26.7	20.8	14.8	8.9	5.9	3.0	3.0
85°	26.7	23.7	20.8	14.8	14.8	11.9	8.9	5.9	3.0	0.0	0.0
87.5°	14.8	11.9	8.9	5.9	5.9	3.0	3.0	3.0	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°	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7
2.5°	3122.5	3122.5	3119.5	3155.1	3113.6	3155.1	3134.4	3155.1	3125.4	3122.5	3125.4
5°	3146.2	3155.1	3158.1	3190.7	3152.2	3202.6	3184.8	3202.6	3181.8	3187.8	3196.7
7.5°	3193.7	3208.6	3205.6	3247.1	3208.6	3265.0	3253.1	3279.8	3259.0	3265.0	3276.8
10°	3247.1	3265.0	3267.9	3309.5	3273.9	3342.1	3327.3	3357.0	3339.2	3348.1	3362.9
12.5°	3309.5	3330.3	3333.2	3380.7	3342.1	3413.4	3404.5	3434.1	3419.3	3428.2	3446.0
15°	3357.0	3386.6	3392.6	3440.1	3398.5	3472.7	3466.8	3505.4	3481.6	3496.5	3511.3
17.5°	3380.7	3407.4	3419.3	3463.8	3428.2	3502.4	3496.5	3529.1	3511.3	3526.1	3544.0
20°	3365.9	3398.5	3407.4	3451.9	3416.3	3490.5	3481.6	3514.3	3496.5	3508.3	3526.1
22.5°	3312.4	3345.1	3357.0	3398.5	3365.9	3434.1	3431.2	3460.8	3437.1	3451.9	3466.8
25°	3217.5	3253.1	3259.0	3297.6	3262.0	3333.2	3327.3	3359.9	3342.1	3351.0	3371.8
27.5°	3080.9	3122.5	3131.4	3164.0	3137.3	3196.7	3196.7	3223.4	3202.6	3202.6	3223.4
30°	2917.7	2959.2	2965.2	2991.9	2968.1	3021.6	3024.5	3051.2	3018.6	3036.4	3039.4
32.5°	2718.8	2745.5	2763.3	2787.1	2751.5	2819.7	2810.8	2831.6	2813.8	2813.8	2828.6
35°	2478.4	2511.0	2519.9	2549.6	2519.9	2573.4	2573.4	2585.2	2567.4	2567.4	2591.2
37.5°	2217.2	2240.9	2243.9	2273.6	2249.8	2294.4	2291.4	2300.3	2282.5	2294.4	2294.4
40°	1911.5	1929.3	1935.2	1950.1	1947.1	1979.7	1976.8	1982.7	1973.8	1976.8	1982.7
42.5°	1555.3	1579.0	1590.9	1602.8	1585.0	1629.5	1620.6	1629.5	1626.5	1629.5	1638.4
45°	1145.7	1163.5	1172.4	1175.4	1169.4	1196.2	1216.9	1199.1	1202.1	1196.2	1208.0
47.5°	828.1	831.1	825.1	843.0	828.1	840.0	845.9	848.9	831.1	828.1	840.0
50°	566.9	581.8	561.0	569.9	566.9	578.8	572.9	575.8	558.0	566.9	561.0
52.5°	377.0	374.0	368.0	371.0	365.1	365.1	365.1	371.0	359.1	353.2	347.3
55°	228.5	222.6	210.7	207.8	207.8	210.7	204.8	198.9	198.9	195.9	195.9
57.5°	133.6	124.7	118.7	115.8	109.8	106.9	103.9	103.9	97.9	97.9	97.9
60°	74.2	65.3	59.4	53.4	53.4	50.5	47.5	44.5	44.5	44.5	41.6
62.5°	38.6	32.6	26.7	23.7	23.7	20.8	17.8	17.8	17.8	17.8	14.8
65°	26.7	20.8	17.8	14.8	14.8	11.9	11.9	11.9	11.9	11.9	11.9
67.5°	20.8	17.8	14.8	11.9	11.9	11.9	8.9	8.9	8.9	8.9	8.9
70°	17.8	11.9	11.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
72.5°	11.9	11.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
75°	8.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	3.0	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: P252218

CATALOG NUMBER: LD6B60D010TE EU6B60709730 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7	3104.7
2.5°	3152.2	3149.2	3152.2	3158.1	3146.2	3181.8	3164.0	3181.8
5°	3220.4	3223.4	3226.4	3235.3	3220.4	3265.0	3241.2	3267.9
7.5°	3309.5	3312.4	3315.4	3324.3	3315.4	3359.9	3333.2	3357.0
10°	3401.5	3407.4	3407.4	3422.3	3413.4	3454.9	3437.1	3466.8
12.5°	3487.6	3493.5	3499.4	3508.3	3502.4	3546.9	3532.1	3555.8
15°	3555.8	3567.7	3570.7	3582.5	3576.6	3624.1	3606.3	3630.0
17.5°	3588.5	3600.4	3600.4	3615.2	3609.3	3659.7	3636.0	3662.7
20°	3570.7	3579.6	3582.5	3597.4	3591.4	3641.9	3618.2	3650.8
22.5°	3514.3	3517.2	3520.2	3535.1	3532.1	3576.6	3555.8	3576.6
25°	3410.4	3419.3	3416.3	3428.2	3428.2	3463.8	3440.1	3457.9
27.5°	3262.0	3270.9	3270.9	3285.7	3273.9	3309.5	3285.7	3312.4
30°	3080.9	3089.8	3083.9	3095.8	3083.9	3119.5	3101.7	3110.6
32.5°	2864.3	2864.3	2867.2	2870.2	2864.3	2896.9	2879.1	2896.9
35°	2606.0	2612.0	2614.9	2617.9	2612.0	2635.7	2614.9	2626.8
37.5°	2315.1	2330.0	2327.0	2330.0	2321.1	2350.8	2333.0	2338.9
40°	2003.5	2003.5	2000.5	2006.5	1997.6	2021.3	2009.4	2015.4
42.5°	1641.4	1650.3	1638.4	1653.3	1629.5	1662.2	1650.3	1641.4
45°	1231.8	1219.9	1216.9	1219.9	1211.0	1214.0	1222.9	1216.9
47.5°	840.0	840.0	834.0	825.1	837.0	840.0	828.1	828.1
50°	563.9	563.9	558.0	555.0	561.0	558.0	552.1	561.0
52.5°	359.1	347.3	347.3	353.2	347.3	341.3	350.2	344.3
55°	195.9	190.0	190.0	195.9	190.0	190.0	187.0	192.9
57.5°	95.0	97.9	95.0	95.0	95.0	95.0	92.0	95.0
60°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
62.5°	17.8	17.8	14.8	14.8	14.8	14.8	14.8	14.8
65°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
67.5°	8.9	8.9	8.9	8.9	8.9	11.9	8.9	8.9
70°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
72.5°	8.9	8.9	11.9	11.9	11.9	11.9	11.9	11.9
75°	5.9	5.9	5.9	3.0	3.0	3.0	3.0	3.0
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)