

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: P252727

Luminaire Tested: **LD6B60D010TE EU6B60708030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5575.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

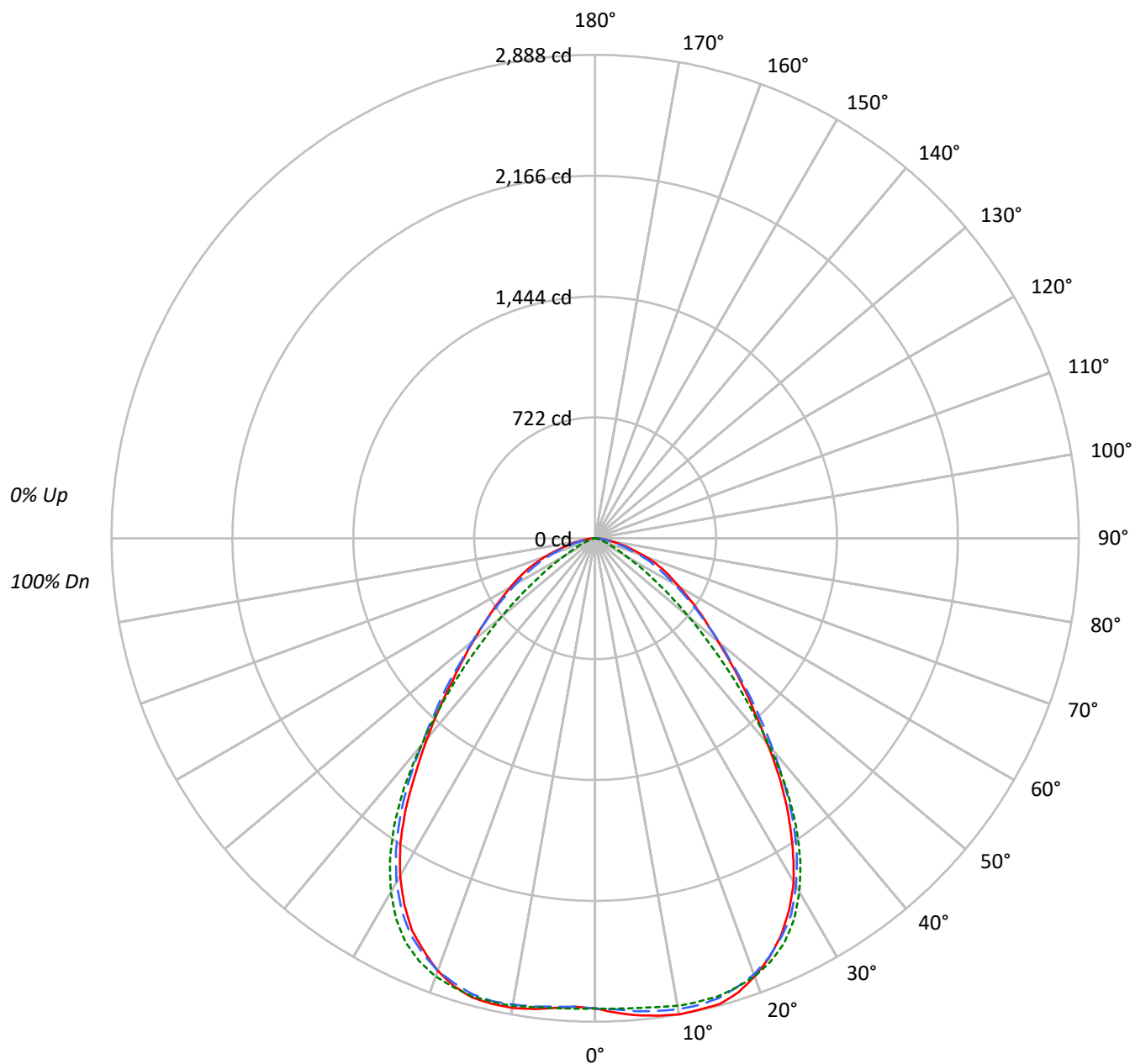
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252727

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBDW1H

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		109	105	102	99		101	98	96		97	95	93		94	92	91
2	103	96	91	86		101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	75		93	85	79	74		82	77	73		80	75	71		77	74	70
4	89	78	71	65		87	77	70	65		75	69	64		73	67	63		71	66	62
5	82	71	64	58		80	70	63	58		68	62	57		66	61	56		65	60	56
6	77	65	57	52		75	64	57	51		63	56	51		61	55	51		59	54	50
7	72	60	52	47		70	59	52	46		58	51	46		56	50	46		55	50	45
8	67	55	47	42		66	54	47	42		53	47	42		52	46	42		51	45	41
9	63	51	43	38		62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35		58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	183248	183248	183248
5°	187334	184465	184465
10°	191341	187916	188705
15°	194541	191320	191860
20°	193356	193356	190870
25°	188752	192186	186175
30°	178676	183761	175384
35°	160109	166432	156939
40°	136018	137704	132637
45°	115100	105200	111068
50°	97183	74194	95965
55°	85410	47897	84500
60°	75679	28510	76201
65°	69915	17166	69915
70°	60621	9843	59114
75°	48070	5999	45070
80°	35805	4471	34340
85°	32712	2994	29718



TEST NUMBER: P252727

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	4.9
10°-20°	800.3	14.4
20°-30°	1203.7	21.6
30°-40°	1265.5	22.7
40°-50°	945.4	17.0
50°-60°	588.6	10.6
60°-70°	334.7	6.0
70°-80°	137.8	2.5
80°-90°	28.5	0.5
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°	2274.4	40.8
0°-40°	3540.0	63.5
0°-60°	5073.9	91.0
0°-90°	5575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5575.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2809	2809	2809	2809	2809	
5°	2860	2837	2817	2809	2817	274
15°	2880	2845	2833	2821	2841	810
25°	2622	2630	2670	2610	2586	1200
35°	2010	2062	2090	2030	1970	1247
45°	1248	1275	1140	1251	1204	967
55°	751	735	421	723	743	675
65°	453	405	111	405	453	446
75°	191	151	24	147	179	207
85°	44	28	4	24	40	49
90°	0	0	0	0	0	



TEST NUMBER: P252727

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8
2.5°	2836.6	2832.6	2836.6	2828.7	2824.7	2824.7	2828.7	2820.7	2816.7	2820.7	2816.7
5°	2860.5	2852.5	2856.5	2852.5	2844.6	2844.6	2848.5	2836.6	2836.6	2840.6	2836.6
7.5°	2876.3	2876.3	2876.3	2868.4	2864.4	2860.5	2868.4	2856.5	2852.5	2852.5	2848.5
10°	2888.3	2884.3	2888.3	2880.3	2872.4	2868.4	2876.3	2868.4	2860.5	2868.4	2856.5
12.5°	2884.3	2884.3	2884.3	2880.3	2872.4	2868.4	2876.3	2864.4	2860.5	2864.4	2856.5
15°	2880.3	2868.4	2872.4	2868.4	2856.5	2856.5	2860.5	2848.5	2840.6	2852.5	2844.6
17.5°	2844.6	2836.6	2840.6	2832.6	2824.7	2820.7	2824.7	2820.7	2812.8	2820.7	2812.8
20°	2785.0	2785.0	2788.9	2781.0	2773.0	2769.1	2777.0	2769.1	2761.1	2773.0	2773.0
22.5°	2713.5	2713.5	2713.5	2709.5	2705.5	2705.5	2705.5	2701.5	2697.6	2705.5	2709.5
25°	2622.1	2618.1	2622.1	2626.1	2622.1	2618.1	2622.1	2622.1	2614.1	2630.0	2630.0
27.5°	2506.9	2506.9	2514.8	2510.8	2510.8	2506.9	2514.8	2514.8	2510.8	2522.8	2534.7
30°	2371.8	2363.8	2371.8	2371.8	2375.8	2375.8	2379.7	2379.7	2379.7	2391.7	2399.6
32.5°	2197.0	2201.0	2212.9	2208.9	2204.9	2216.8	2216.8	2224.8	2228.8	2236.7	2240.7
35°	2010.3	2014.2	2014.2	2018.2	2026.2	2018.2	2038.1	2034.1	2038.1	2054.0	2061.9
37.5°	1811.6	1799.7	1819.6	1811.6	1815.6	1815.6	1823.5	1827.5	1839.4	1859.3	1859.3
40°	1597.1	1601.1	1609.0	1613.0	1616.9	1616.9	1616.9	1628.9	1632.8	1656.7	1652.7
42.5°	1410.4	1410.4	1418.3	1422.3	1422.3	1422.3	1422.3	1434.2	1442.1	1450.1	1458.0
45°	1247.5	1235.6	1243.5	1243.5	1251.4	1247.5	1255.4	1263.4	1267.3	1279.3	1275.3
47.5°	1092.5	1088.6	1092.5	1096.5	1092.5	1096.5	1100.5	1104.5	1108.4	1108.4	1108.4
50°	957.5	957.5	961.4	965.4	965.4	965.4	965.4	969.4	969.4	977.3	969.4
52.5°	846.2	850.2	850.2	846.2	850.2	850.2	854.2	854.2	850.2	850.2	838.3
55°	750.9	746.9	750.9	746.9	750.9	750.9	746.9	746.9	742.9	738.9	735.0
57.5°	659.5	659.5	659.5	659.5	655.5	659.5	655.5	651.5	651.5	643.6	631.7
60°	580.0	580.0	580.0	580.0	580.0	576.1	580.0	576.1	568.1	560.2	544.3
62.5°	512.5	508.5	512.5	508.5	508.5	504.6	504.6	500.6	492.6	484.7	468.8
65°	452.9	456.9	452.9	452.9	448.9	445.0	445.0	441.0	429.1	421.1	405.2
67.5°	389.3	385.4	385.4	385.4	381.4	381.4	381.4	373.4	365.5	353.6	337.7
70°	317.8	317.8	317.8	313.9	313.9	309.9	309.9	305.9	298.0	290.0	270.2
72.5°	250.3	250.3	250.3	242.3	246.3	242.3	242.3	234.4	230.4	218.5	206.6
75°	190.7	190.7	186.7	186.7	182.8	178.8	178.8	174.8	170.8	162.9	151.0
77.5°	139.0	139.0	139.0	135.1	131.1	127.1	127.1	123.2	119.2	115.2	107.3
80°	95.3	95.3	95.3	95.3	91.4	87.4	87.4	83.4	83.4	79.5	71.5
82.5°	63.6	63.6	63.6	63.6	59.6	59.6	59.6	55.6	51.6	51.6	43.7
85°	43.7	43.7	39.7	39.7	39.7	39.7	35.8	35.8	31.8	27.8	27.8
87.5°	23.8	23.8	23.8	23.8	19.9	19.9	19.9	19.9	15.9	15.9	11.9
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: P252727

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8
2.5°	2828.7	2828.7	2824.7	2812.8	2816.7	2812.8	2816.7	2812.8	2800.9	2812.8	2800.9
5°	2844.6	2848.5	2840.6	2824.7	2828.7	2824.7	2824.7	2820.7	2808.8	2816.7	2808.8
7.5°	2860.5	2856.5	2852.5	2836.6	2840.6	2836.6	2836.6	2828.7	2816.7	2824.7	2812.8
10°	2868.4	2868.4	2860.5	2844.6	2844.6	2840.6	2844.6	2840.6	2824.7	2836.6	2828.7
12.5°	2868.4	2864.4	2864.4	2844.6	2848.5	2844.6	2848.5	2840.6	2828.7	2836.6	2832.6
15°	2856.5	2856.5	2852.5	2832.6	2836.6	2836.6	2840.6	2832.6	2820.7	2832.6	2824.7
17.5°	2832.6	2832.6	2828.7	2812.8	2820.7	2820.7	2824.7	2816.7	2804.8	2812.8	2812.8
20°	2785.0	2788.9	2788.9	2777.0	2785.0	2785.0	2788.9	2785.0	2781.0	2785.0	2777.0
22.5°	2729.3	2737.3	2737.3	2725.4	2733.3	2733.3	2745.2	2741.3	2733.3	2737.3	2733.3
25°	2645.9	2653.9	2661.8	2653.9	2661.8	2661.8	2673.7	2669.8	2661.8	2669.8	2657.8
27.5°	2550.6	2554.5	2562.5	2554.5	2566.5	2562.5	2574.4	2570.4	2558.5	2570.4	2566.5
30°	2415.5	2431.4	2443.3	2431.4	2443.3	2443.3	2451.2	2447.3	2443.3	2439.3	2439.3
32.5°	2264.5	2280.4	2280.4	2276.4	2284.4	2284.4	2288.4	2280.4	2276.4	2280.4	2284.4
35°	2077.8	2085.7	2093.7	2089.7	2093.7	2097.7	2093.7	2097.7	2085.7	2089.7	2089.7
37.5°	1875.2	1883.1	1883.1	1871.2	1879.2	1879.2	1871.2	1871.2	1863.3	1871.2	1855.3
40°	1660.7	1652.7	1656.7	1648.7	1640.8	1640.8	1636.8	1620.9	1613.0	1616.9	1620.9
42.5°	1450.1	1450.1	1438.2	1418.3	1398.4	1398.4	1386.5	1378.6	1362.7	1370.6	1366.7
45°	1271.3	1251.4	1235.6	1203.8	1191.9	1183.9	1164.0	1144.2	1136.2	1140.2	1136.2
47.5°	1100.5	1084.6	1044.9	1001.2	989.2	977.3	953.5	929.6	921.7	913.8	913.8
50°	957.5	929.6	885.9	838.3	818.4	798.5	766.8	742.9	727.0	731.0	731.0
52.5°	826.4	794.6	742.9	683.3	659.5	635.7	607.8	580.0	568.1	564.1	564.1
55°	711.1	675.4	623.7	556.2	536.3	508.5	472.8	441.0	425.1	421.1	429.1
57.5°	607.8	576.1	516.5	448.9	425.1	397.3	361.5	333.7	313.9	309.9	313.9
60°	524.4	480.7	429.1	365.5	333.7	309.9	270.2	246.3	226.5	218.5	222.5
62.5°	441.0	401.3	349.6	286.0	262.2	238.4	202.6	174.8	158.9	154.9	158.9
65°	377.4	337.7	290.0	234.4	210.6	186.7	154.9	127.1	115.2	111.2	115.2
67.5°	313.9	278.1	238.4	186.7	166.9	147.0	115.2	95.3	79.5	75.5	79.5
70°	254.3	222.5	182.8	147.0	127.1	111.2	87.4	67.5	55.6	51.6	55.6
72.5°	190.7	166.9	139.0	107.3	95.3	83.4	63.6	47.7	39.7	35.8	39.7
75°	139.0	119.2	99.3	75.5	67.5	59.6	43.7	31.8	27.8	23.8	27.8
77.5°	95.3	83.4	67.5	51.6	43.7	39.7	27.8	23.8	19.9	15.9	15.9
80°	63.6	55.6	43.7	35.8	31.8	27.8	19.9	15.9	11.9	11.9	11.9
82.5°	39.7	31.8	27.8	19.9	15.9	15.9	11.9	7.9	7.9	7.9	7.9
85°	23.8	19.9	15.9	11.9	7.9	7.9	4.0	4.0	4.0	4.0	4.0
87.5°	11.9	7.9	7.9	4.0	4.0	4.0	4.0	4.0	0.0	0.0	4.0
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: P252727

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8
2.5°	2808.8	2800.9	2800.9	2804.8	2808.8	2812.8	2804.8	2800.9	2800.9	2812.8	2804.8
5°	2808.8	2804.8	2804.8	2804.8	2812.8	2816.7	2808.8	2804.8	2808.8	2820.7	2816.7
7.5°	2820.7	2812.8	2816.7	2816.7	2820.7	2828.7	2820.7	2816.7	2820.7	2832.6	2824.7
10°	2828.7	2820.7	2824.7	2820.7	2832.6	2836.6	2828.7	2824.7	2828.7	2844.6	2840.6
12.5°	2832.6	2828.7	2828.7	2824.7	2836.6	2840.6	2832.6	2828.7	2832.6	2844.6	2840.6
15°	2824.7	2820.7	2820.7	2820.7	2828.7	2836.6	2824.7	2820.7	2820.7	2832.6	2828.7
17.5°	2808.8	2800.9	2800.9	2800.9	2804.8	2808.8	2796.9	2792.9	2788.9	2800.9	2796.9
20°	2781.0	2773.0	2765.1	2765.1	2769.1	2769.1	2761.1	2749.2	2749.2	2753.2	2745.2
22.5°	2729.3	2725.4	2717.4	2713.5	2721.4	2717.4	2701.5	2689.6	2685.6	2689.6	2681.7
25°	2657.8	2649.9	2645.9	2641.9	2645.9	2641.9	2626.1	2610.2	2610.2	2610.2	2598.2
27.5°	2558.5	2550.6	2546.6	2546.6	2550.6	2542.6	2526.7	2510.8	2502.9	2502.9	2491.0
30°	2431.4	2431.4	2427.4	2423.4	2419.5	2419.5	2395.6	2379.7	2371.8	2375.8	2367.8
32.5°	2276.4	2272.5	2268.5	2256.6	2260.6	2256.6	2236.7	2224.8	2212.9	2204.9	2201.0
35°	2077.8	2077.8	2073.8	2073.8	2073.8	2069.9	2050.0	2038.1	2030.1	2026.2	2014.2
37.5°	1859.3	1855.3	1851.3	1851.3	1851.3	1851.3	1839.4	1827.5	1827.5	1823.5	1815.6
40°	1613.0	1616.9	1620.9	1616.9	1628.9	1640.8	1624.9	1616.9	1613.0	1624.9	1609.0
42.5°	1374.6	1370.6	1390.5	1394.5	1394.5	1414.3	1418.3	1422.3	1418.3	1426.3	1426.3
45°	1144.2	1140.2	1160.1	1168.0	1187.9	1211.7	1223.6	1243.5	1251.4	1259.4	1251.4
47.5°	925.7	941.6	957.5	977.3	993.2	1032.9	1056.8	1076.6	1084.6	1096.5	1096.5
50°	742.9	758.8	786.6	802.5	822.4	870.1	909.8	937.6	953.5	965.4	961.4
52.5°	572.1	599.9	635.7	651.5	679.4	735.0	778.7	810.5	830.3	842.2	846.2
55°	441.0	464.8	500.6	524.4	552.2	611.8	667.4	703.2	723.1	738.9	746.9
57.5°	325.8	353.6	393.3	413.2	445.0	512.5	560.2	603.9	627.7	647.6	651.5
60°	238.4	266.2	301.9	325.8	357.6	425.1	480.7	520.4	548.3	564.1	572.1
62.5°	170.8	198.6	234.4	258.2	286.0	345.6	401.3	441.0	468.8	488.7	500.6
65°	123.2	151.0	186.7	206.6	230.4	286.0	337.7	377.4	405.2	429.1	437.0
67.5°	91.4	111.2	143.0	162.9	186.7	230.4	274.1	309.9	337.7	357.6	365.5
70°	67.5	83.4	111.2	123.2	139.0	178.8	214.5	246.3	270.2	286.0	294.0
72.5°	47.7	59.6	79.5	91.4	103.3	135.1	162.9	186.7	202.6	218.5	226.5
75°	31.8	39.7	55.6	63.6	71.5	95.3	115.2	135.1	147.0	158.9	162.9
77.5°	19.9	27.8	39.7	43.7	51.6	63.6	79.5	91.4	99.3	107.3	115.2
80°	11.9	15.9	23.8	27.8	31.8	43.7	51.6	59.6	67.5	75.5	79.5
82.5°	7.9	11.9	15.9	15.9	19.9	23.8	31.8	39.7	43.7	47.7	51.6
85°	4.0	4.0	7.9	7.9	11.9	11.9	15.9	19.9	23.8	27.8	31.8
87.5°	4.0	4.0	4.0	4.0	7.9	7.9	11.9	11.9	11.9	15.9	15.9
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: P252727

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8	2808.8
2.5°	2796.9	2808.8	2796.9	2804.8	2800.9	2800.9	2796.9	2800.9
5°	2808.8	2824.7	2808.8	2820.7	2812.8	2812.8	2812.8	2816.7
7.5°	2820.7	2836.6	2824.7	2836.6	2832.6	2828.7	2828.7	2836.6
10°	2832.6	2844.6	2836.6	2848.5	2844.6	2840.6	2840.6	2848.5
12.5°	2832.6	2848.5	2840.6	2852.5	2848.5	2844.6	2844.6	2848.5
15°	2820.7	2840.6	2828.7	2840.6	2836.6	2832.6	2832.6	2840.6
17.5°	2785.0	2800.9	2792.9	2800.9	2800.9	2796.9	2800.9	2804.8
20°	2737.3	2749.2	2741.3	2749.2	2749.2	2741.3	2745.2	2749.2
22.5°	2669.8	2681.7	2673.7	2681.7	2677.7	2673.7	2673.7	2669.8
25°	2586.3	2602.2	2590.3	2598.2	2590.3	2582.4	2582.4	2586.3
27.5°	2483.0	2494.9	2479.1	2487.0	2479.1	2471.1	2471.1	2467.1
30°	2348.0	2351.9	2340.0	2348.0	2340.0	2336.0	2328.1	2328.1
32.5°	2185.1	2189.0	2177.1	2177.1	2169.2	2169.2	2153.3	2165.2
35°	1994.4	1998.3	1994.4	1990.4	1978.5	1974.5	1970.5	1970.5
37.5°	1795.7	1795.7	1783.8	1779.8	1771.9	1763.9	1767.9	1756.0
40°	1593.1	1589.1	1577.2	1581.2	1577.2	1565.3	1561.3	1557.4
42.5°	1402.4	1402.4	1390.5	1394.5	1386.5	1382.6	1370.6	1374.6
45°	1235.6	1235.6	1223.6	1223.6	1219.7	1207.7	1211.7	1203.8
47.5°	1084.6	1084.6	1080.6	1080.6	1068.7	1064.7	1064.7	1064.7
50°	953.5	953.5	953.5	953.5	949.5	945.5	941.6	945.5
52.5°	842.2	850.2	846.2	846.2	842.2	838.3	834.3	834.3
55°	742.9	746.9	746.9	750.9	746.9	742.9	746.9	742.9
57.5°	655.5	663.5	663.5	663.5	663.5	663.5	659.5	655.5
60°	580.0	584.0	584.0	588.0	588.0	588.0	584.0	584.0
62.5°	504.6	512.5	516.5	516.5	520.4	516.5	516.5	516.5
65°	445.0	452.9	456.9	452.9	456.9	456.9	452.9	452.9
67.5°	373.4	381.4	381.4	381.4	381.4	385.4	381.4	381.4
70°	301.9	309.9	305.9	309.9	309.9	309.9	309.9	309.9
72.5°	230.4	234.4	238.4	238.4	242.3	238.4	238.4	238.4
75°	166.9	174.8	174.8	174.8	174.8	178.8	178.8	178.8
77.5°	119.2	123.2	123.2	127.1	127.1	127.1	127.1	131.1
80°	83.4	83.4	87.4	87.4	91.4	91.4	91.4	91.4
82.5°	55.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
85°	31.8	35.8	35.8	35.8	35.8	39.7	39.7	39.7
87.5°	19.9	19.9	19.9	19.9	19.9	19.9	15.9	15.9
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)