

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: P252403

Luminaire Tested: **LD6B50D010TE EU6B30508035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30508035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS 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: 4957.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

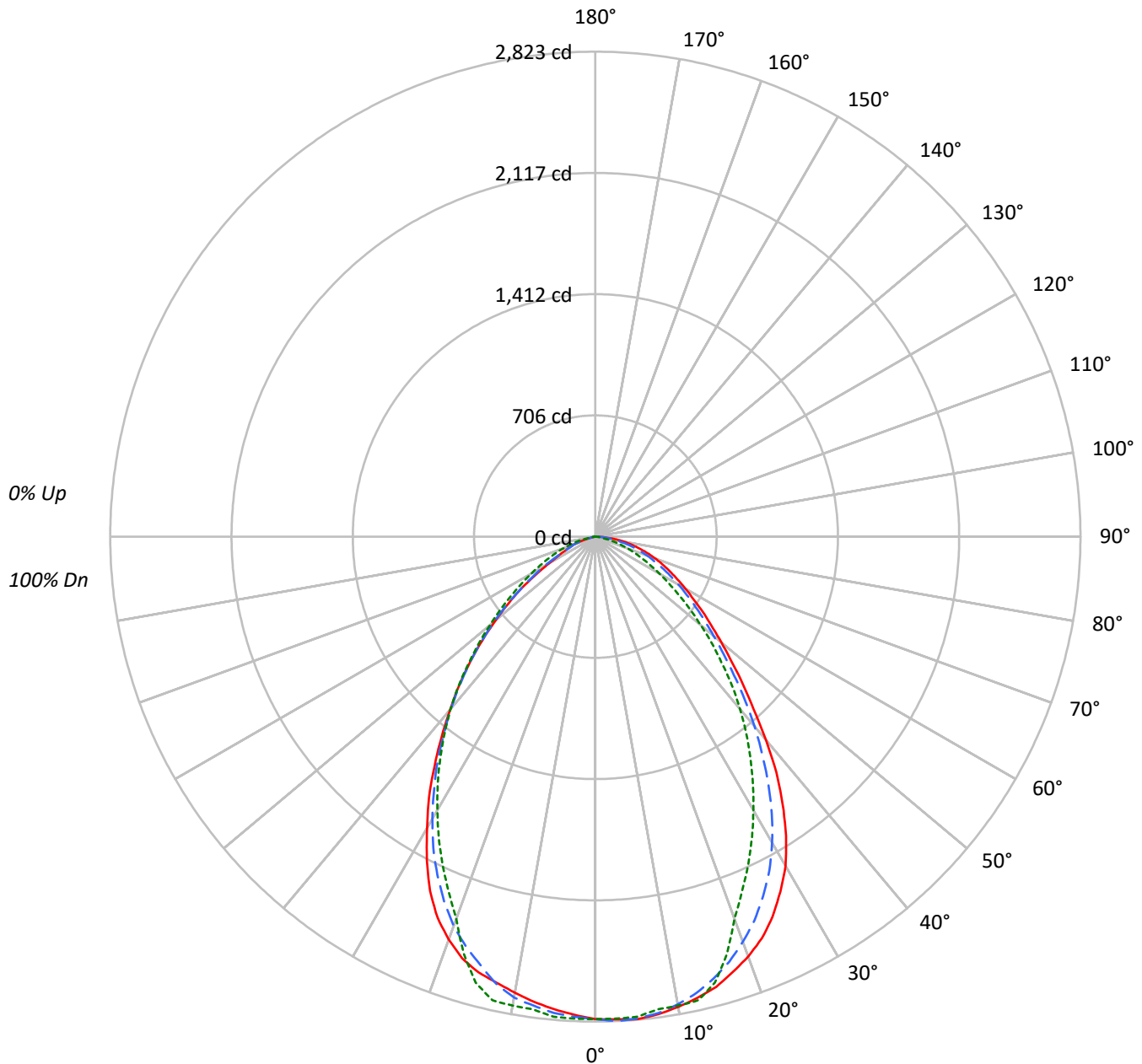
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70
5	82	71	63	57	80	70	63	57	68	62	57		66	60	56		64
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	183241	183241	183241
5°	184655	183699	180837
10°	184134	183650	178576
15°	183296	181573	177386
20°	180567	164356	173222
25°	175665	151507	163845
30°	166796	138493	147563
35°	151356	125208	129860
40°	131402	111524	111831
45°	112073	95918	94903
50°	97000	81075	76640
55°	86718	67632	59329
60°	79006	56159	39979
65°	73759	46173	29840
70°	70273	37578	25046
75°	66194	26669	8268
80°	63043	13713	2743
85°	51875	8159	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	5.4
10°-20°	741.8	15.0
20°-30°	1024.0	20.7
30°-40°	1042.0	21.0
40°-50°	837.4	16.9
50°-60°	556.8	11.2
60°-70°	317.3	6.4
70°-80°	142.5	2.9
80°-90°	30.0	0.6
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°	2031.0	41.0
0°-40°	3073.0	62.0
0°-60°	4467.2	90.1
0°-90°	4957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4957.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2809	2809	2809	2809	2809	
5°	2820	2816	2805	2783	2761	268
15°	2714	2663	2688	2582	2626	764
25°	2440	2309	2105	2174	2276	1118
35°	1900	1754	1572	1601	1630	1181
45°	1215	1142	1040	1029	1029	942
55°	762	711	595	529	522	685
65°	478	427	299	193	193	476
75°	263	219	106	44	33	280
85°	69	47	11	4	0	82
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°	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7
2.5°	2812.3	2826.9	2823.3	2819.6	2823.3	2819.6	2812.3	2812.3	2805.0	2805.0	2823.3
5°	2819.6	2826.9	2823.3	2819.6	2819.6	2823.3	2808.7	2808.7	2801.4	2797.7	2816.0
7.5°	2805.0	2816.0	2808.7	2808.7	2805.0	2808.7	2794.1	2794.1	2783.1	2779.5	2797.7
10°	2779.5	2794.1	2786.8	2786.8	2786.8	2779.5	2772.2	2768.6	2757.6	2754.0	2764.9
12.5°	2750.3	2761.3	2757.6	2750.3	2750.3	2750.3	2735.7	2732.1	2717.5	2710.2	2721.1
15°	2713.8	2721.1	2717.5	2713.8	2706.5	2706.5	2692.0	2684.7	2670.1	2655.5	2662.8
17.5°	2659.1	2670.1	2662.8	2659.1	2648.2	2648.2	2633.6	2626.3	2604.4	2589.8	2593.5
20°	2600.8	2604.4	2600.8	2593.5	2582.5	2578.9	2564.3	2549.7	2531.5	2513.2	2509.6
22.5°	2531.5	2535.1	2524.2	2516.9	2505.9	2502.3	2484.0	2473.1	2443.9	2422.0	2418.4
25°	2440.3	2443.9	2443.9	2425.7	2418.4	2411.1	2392.8	2374.6	2349.1	2319.9	2309.0
27.5°	2330.8	2341.8	2334.5	2316.2	2301.7	2298.0	2279.8	2265.2	2232.4	2206.8	2192.2
30°	2214.1	2210.5	2206.8	2195.9	2174.0	2170.3	2152.1	2133.9	2108.3	2075.5	2057.3
32.5°	2064.6	2064.6	2060.9	2050.0	2028.1	2020.8	2006.2	1984.3	1955.1	1929.6	1911.4
35°	1900.4	1904.1	1900.4	1878.5	1863.9	1856.6	1849.4	1823.8	1798.3	1769.1	1754.5
37.5°	1729.0	1718.0	1721.7	1703.4	1685.2	1692.5	1670.6	1659.7	1630.5	1608.6	1594.0
40°	1542.9	1550.2	1535.7	1528.4	1517.4	1506.5	1506.5	1488.2	1473.6	1448.1	1440.8
42.5°	1360.6	1371.5	1367.9	1360.6	1346.0	1349.6	1331.4	1324.1	1305.9	1294.9	1284.0
45°	1214.7	1214.7	1214.7	1207.4	1203.7	1196.4	1185.5	1174.5	1163.6	1149.0	1141.7
47.5°	1072.4	1072.4	1076.1	1068.8	1061.5	1057.8	1050.5	1050.5	1032.3	1017.7	1010.4
50°	955.7	955.7	955.7	948.4	941.1	941.1	933.8	926.5	915.6	904.6	897.3
52.5°	849.9	849.9	849.9	842.6	839.0	835.3	831.7	828.0	813.4	806.1	798.8
55°	762.4	758.7	758.7	755.1	747.8	747.8	744.1	736.8	725.9	714.9	711.3
57.5°	674.8	678.5	674.8	674.8	667.5	667.5	660.2	656.6	645.6	638.3	631.0
60°	605.5	605.5	605.5	601.9	594.6	598.2	590.9	587.3	576.3	565.4	558.1
62.5°	536.2	539.8	539.8	536.2	528.9	528.9	525.3	521.6	510.7	499.7	488.8
65°	477.8	477.8	477.8	474.2	470.5	470.5	466.9	463.2	452.3	437.7	426.8
67.5°	423.1	419.5	419.5	419.5	415.8	412.2	408.5	404.9	393.9	383.0	368.4
70°	368.4	368.4	368.4	364.8	357.5	361.1	357.5	353.8	342.9	331.9	321.0
72.5°	317.3	317.3	313.7	310.0	310.0	306.4	306.4	302.8	291.8	277.2	266.3
75°	262.6	262.6	262.6	262.6	255.3	259.0	251.7	248.0	240.7	229.8	218.9
77.5°	215.2	215.2	215.2	211.6	207.9	207.9	204.3	200.6	189.7	182.4	167.8
80°	167.8	167.8	167.8	167.8	164.1	160.5	156.8	153.2	145.9	135.0	124.0
82.5°	124.0	124.0	120.4	120.4	120.4	116.7	113.1	109.4	102.1	94.8	87.5
85°	69.3	73.0	73.0	65.7	69.3	65.7	65.7	58.4	58.4	51.1	47.4
87.5°	25.5	21.9	21.9	21.9	21.9	21.9	21.9	18.2	18.2	18.2	14.6
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°	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7
2.5°	2808.7	2805.0	2819.6	2819.6	2797.7	2808.7	2812.3	2805.0	2805.0	2808.7	2797.7
5°	2801.4	2794.1	2808.7	2812.3	2790.4	2801.4	2805.0	2797.7	2801.4	2805.0	2790.4
7.5°	2775.8	2775.8	2786.8	2790.4	2768.6	2779.5	2779.5	2772.2	2775.8	2775.8	2764.9
10°	2750.3	2739.4	2750.3	2750.3	2732.1	2735.7	2743.0	2739.4	2754.0	2772.2	2772.2
12.5°	2702.9	2692.0	2710.2	2710.2	2699.2	2713.8	2732.1	2743.0	2757.6	2764.9	2743.0
15°	2644.5	2648.2	2681.0	2706.5	2695.6	2717.5	2735.7	2728.4	2710.2	2688.3	2655.5
17.5°	2567.9	2557.0	2586.2	2600.8	2586.2	2593.5	2608.1	2593.5	2564.3	2546.0	2502.3
20°	2480.4	2451.2	2451.2	2443.9	2418.4	2418.4	2414.7	2389.2	2378.3	2367.3	2349.1
22.5°	2381.9	2349.1	2338.1	2316.2	2294.4	2290.7	2279.8	2254.2	2239.6	2232.4	2210.5
25°	2268.8	2239.6	2221.4	2199.5	2166.7	2159.4	2148.5	2122.9	2115.6	2104.7	2086.4
27.5°	2152.1	2115.6	2090.1	2068.2	2039.0	2035.4	2013.5	1995.3	1980.7	1973.4	1958.8
30°	2017.1	1977.0	1958.8	1929.6	1907.7	1900.4	1882.2	1856.6	1845.7	1838.4	1827.5
32.5°	1867.6	1834.8	1816.5	1791.0	1761.8	1765.5	1743.6	1721.7	1714.4	1707.1	1696.1
35°	1721.7	1688.9	1667.0	1645.1	1626.8	1619.5	1605.0	1586.7	1575.8	1572.1	1564.8
37.5°	1561.2	1535.7	1517.4	1495.5	1480.9	1473.6	1466.3	1448.1	1440.8	1440.8	1426.2
40°	1404.3	1382.5	1367.9	1356.9	1338.7	1335.0	1327.7	1316.8	1313.1	1309.5	1298.6
42.5°	1262.1	1232.9	1222.0	1214.7	1203.7	1196.4	1192.8	1185.5	1181.8	1178.2	1167.2
45°	1127.1	1101.6	1090.6	1083.3	1072.4	1068.8	1065.1	1054.2	1046.9	1039.6	1035.9
47.5°	995.8	977.6	973.9	955.7	948.4	941.1	933.8	926.5	922.9	919.2	904.6
50°	882.7	871.8	853.5	842.6	835.3	831.7	817.1	806.1	802.5	798.8	787.9
52.5°	780.6	766.0	755.1	736.8	733.2	725.9	718.6	704.0	696.7	693.1	682.1
55°	689.4	678.5	663.9	649.3	638.3	634.7	623.7	609.2	601.9	594.6	587.3
57.5°	612.8	594.6	580.0	565.4	558.1	547.1	536.2	528.9	518.0	507.0	496.1
60°	539.8	525.3	507.0	492.4	485.1	477.8	463.2	452.3	441.4	430.4	419.5
62.5°	470.5	456.0	437.7	423.1	415.8	408.5	393.9	383.0	372.1	361.1	346.5
65°	408.5	393.9	379.4	364.8	357.5	350.2	335.6	321.0	310.0	299.1	284.5
67.5°	357.5	339.2	324.6	310.0	302.8	295.5	280.9	269.9	255.3	244.4	229.8
70°	302.8	288.2	277.2	262.6	255.3	248.0	233.4	218.9	207.9	197.0	182.4
72.5°	255.3	237.1	226.2	211.6	204.3	200.6	186.0	175.1	164.1	149.6	138.6
75°	204.3	189.7	175.1	164.1	156.8	153.2	138.6	127.7	116.7	105.8	94.8
77.5°	156.8	145.9	131.3	120.4	113.1	109.4	94.8	83.9	73.0	65.7	54.7
80°	116.7	102.1	94.8	83.9	80.2	73.0	65.7	54.7	47.4	36.5	29.2
82.5°	80.2	69.3	62.0	54.7	51.1	47.4	40.1	32.8	25.5	21.9	18.2
85°	43.8	36.5	32.8	29.2	25.5	25.5	21.9	18.2	14.6	10.9	7.3
87.5°	14.6	10.9	10.9	10.9	10.9	7.3	7.3	7.3	3.6	3.6	3.6
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°	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7
2.5°	2805.0	2805.0	2805.0	2801.4	2801.4	2801.4	2797.7	2812.3	2797.7	2794.1	2805.0
5°	2801.4	2794.1	2794.1	2794.1	2794.1	2790.4	2786.8	2794.1	2783.1	2779.5	2779.5
7.5°	2779.5	2775.8	2775.8	2772.2	2768.6	2764.9	2761.3	2764.9	2754.0	2750.3	2750.3
10°	2783.1	2775.8	2775.8	2764.9	2757.6	2746.7	2735.7	2739.4	2724.8	2713.8	2713.8
12.5°	2739.4	2721.1	2710.2	2699.2	2692.0	2688.3	2673.7	2681.0	2666.4	2662.8	2662.8
15°	2640.9	2619.0	2600.8	2593.5	2593.5	2586.2	2575.2	2589.8	2582.5	2586.2	2604.4
17.5°	2487.7	2476.7	2465.8	2462.2	2465.8	2473.1	2480.4	2502.3	2502.3	2513.2	2531.5
20°	2352.7	2345.4	2352.7	2352.7	2356.4	2371.0	2385.6	2403.8	2411.1	2422.0	2447.6
22.5°	2221.4	2221.4	2228.7	2239.6	2236.0	2261.5	2265.2	2298.0	2298.0	2319.9	2341.8
25°	2093.7	2093.7	2101.0	2104.7	2112.0	2126.6	2141.2	2166.7	2174.0	2195.9	2214.1
27.5°	1969.7	1966.1	1966.1	1969.7	1977.0	1995.3	2002.6	2031.7	2042.7	2057.3	2075.5
30°	1831.1	1827.5	1834.8	1842.1	1838.4	1856.6	1867.6	1889.5	1896.8	1911.4	1926.0
32.5°	1699.8	1699.8	1699.8	1707.1	1707.1	1721.7	1721.7	1747.2	1747.2	1758.2	1772.7
35°	1564.8	1564.8	1568.5	1572.1	1575.8	1579.4	1583.1	1597.7	1601.3	1605.0	1612.3
37.5°	1437.2	1433.5	1437.2	1437.2	1429.9	1444.5	1444.5	1459.1	1448.1	1459.1	1462.7
40°	1305.9	1305.9	1302.2	1302.2	1302.2	1309.5	1302.2	1313.1	1305.9	1313.1	1309.5
42.5°	1170.9	1170.9	1163.6	1170.9	1167.2	1167.2	1167.2	1174.5	1163.6	1170.9	1174.5
45°	1035.9	1032.3	1032.3	1028.6	1028.6	1028.6	1032.3	1032.3	1028.6	1035.9	1035.9
47.5°	904.6	901.0	901.0	901.0	901.0	904.6	893.7	901.0	893.7	893.7	893.7
50°	791.5	787.9	784.2	780.6	776.9	776.9	773.3	773.3	766.0	762.4	758.7
52.5°	682.1	678.5	671.2	671.2	667.5	663.9	652.9	652.9	642.0	638.3	638.3
55°	583.6	572.7	569.0	561.7	561.7	554.4	547.1	539.8	528.9	521.6	521.6
57.5°	492.4	481.5	474.2	470.5	466.9	459.6	445.0	441.4	426.8	423.1	419.5
60°	412.2	401.2	390.3	383.0	379.4	368.4	353.8	346.5	339.2	328.3	317.3
62.5°	335.6	324.6	310.0	306.4	299.1	288.2	277.2	266.3	259.0	248.0	240.7
65°	269.9	259.0	248.0	240.7	233.4	222.5	211.6	200.6	193.3	189.7	186.0
67.5°	218.9	204.3	193.3	189.7	182.4	175.1	164.1	160.5	153.2	153.2	153.2
70°	171.4	160.5	149.6	145.9	142.3	135.0	127.7	127.7	127.7	127.7	127.7
72.5°	127.7	120.4	109.4	105.8	102.1	98.5	91.2	94.8	91.2	91.2	91.2
75°	80.2	73.0	65.7	62.0	58.4	54.7	51.1	47.4	43.8	40.1	40.1
77.5°	43.8	36.5	32.8	29.2	29.2	25.5	21.9	21.9	18.2	18.2	18.2
80°	25.5	21.9	18.2	14.6	14.6	10.9	10.9	10.9	10.9	7.3	7.3
82.5°	14.6	10.9	7.3	7.3	7.3	7.3	3.6	3.6	3.6	3.6	3.6
85°	7.3	7.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P252403

CATALOG NUMBER: LD6B50D010TE EU6B30508035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7
2.5°	2786.8	2797.7	2786.8	2797.7	2797.7	2797.7	2797.7	2786.8
5°	2768.6	2775.8	2764.9	2772.2	2775.8	2772.2	2772.2	2761.3
7.5°	2735.7	2743.0	2732.1	2743.0	2746.7	2743.0	2739.4	2732.1
10°	2702.9	2706.5	2695.6	2702.9	2710.2	2710.2	2706.5	2695.6
12.5°	2651.8	2662.8	2651.8	2659.1	2666.4	2670.1	2670.1	2659.1
15°	2593.5	2611.7	2604.4	2615.4	2626.3	2629.9	2629.9	2626.3
17.5°	2535.1	2553.3	2542.4	2560.6	2571.6	2578.9	2582.5	2575.2
20°	2451.2	2473.1	2465.8	2480.4	2495.0	2505.9	2505.9	2495.0
22.5°	2341.8	2371.0	2367.3	2378.3	2396.5	2400.1	2407.4	2400.1
25°	2221.4	2243.3	2239.6	2250.6	2272.5	2272.5	2276.1	2276.1
27.5°	2082.8	2104.7	2101.0	2108.3	2122.9	2126.6	2130.2	2122.9
30°	1933.2	1944.2	1944.2	1955.1	1966.1	1969.7	1969.7	1958.8
32.5°	1769.1	1783.7	1791.0	1787.3	1798.3	1805.6	1801.9	1801.9
35°	1619.5	1623.2	1626.8	1630.5	1634.1	1641.4	1634.1	1630.5
37.5°	1459.1	1470.0	1462.7	1470.0	1477.3	1473.6	1470.0	1470.0
40°	1313.1	1316.8	1309.5	1316.8	1320.4	1320.4	1320.4	1313.1
42.5°	1167.2	1174.5	1167.2	1174.5	1174.5	1174.5	1174.5	1170.9
45°	1021.3	1028.6	1028.6	1032.3	1032.3	1028.6	1028.6	1028.6
47.5°	886.4	893.7	886.4	893.7	897.3	890.0	890.0	890.0
50°	758.7	755.1	755.1	758.7	758.7	758.7	758.7	755.1
52.5°	627.4	631.0	631.0	631.0	634.7	631.0	634.7	634.7
55°	514.3	514.3	514.3	518.0	514.3	514.3	518.0	521.6
57.5°	412.2	408.5	404.9	404.9	408.5	404.9	404.9	404.9
60°	317.3	313.7	310.0	310.0	310.0	310.0	310.0	306.4
62.5°	237.1	237.1	237.1	240.7	240.7	240.7	240.7	244.4
65°	189.7	189.7	189.7	189.7	189.7	189.7	189.7	193.3
67.5°	153.2	153.2	153.2	156.8	156.8	156.8	156.8	156.8
70°	127.7	127.7	131.3	127.7	131.3	131.3	131.3	131.3
72.5°	87.5	87.5	87.5	87.5	87.5	83.9	87.5	83.9
75°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	32.8
77.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
80°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	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)