

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: P252507

Luminaire Tested: **LD6B50D010TE EU6B30508035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30508035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4655.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

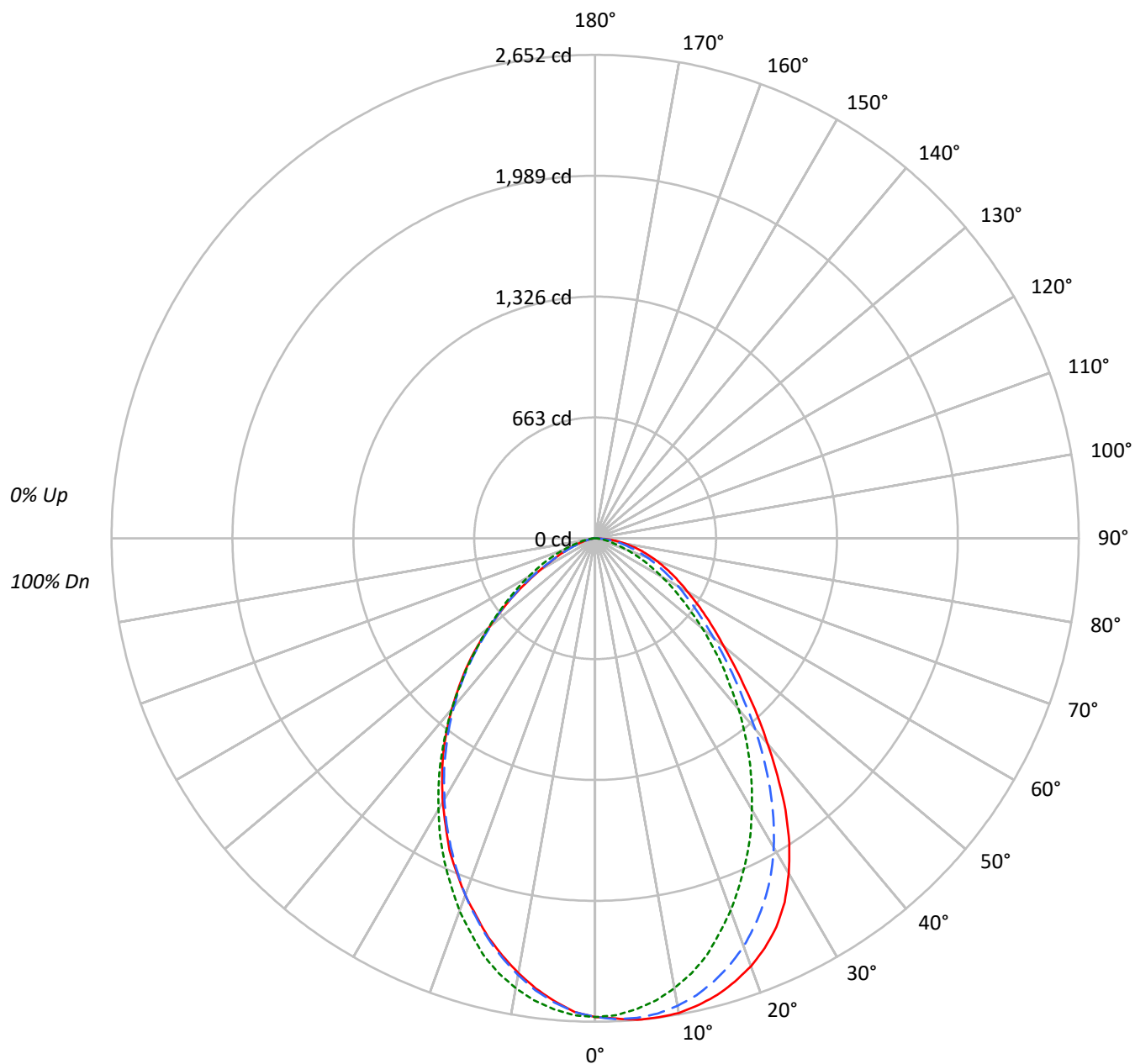
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	101	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	93	84	78	73	81	76	71		79	74	70		76
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	37		48	42	37		47
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	171328	171328	171328
5°	173653	169835	166966
10°	175177	165995	160444
15°	175157	159879	152983
20°	173465	150922	144597
25°	169352	140731	136001
30°	159918	129415	125844
35°	144952	117356	115906
40°	125185	104370	104064
45°	107349	90862	91535
50°	93285	77736	76630
55°	83806	65550	61399
60°	76149	55207	45212
65°	71505	45602	33221
70°	68174	35480	24359
75°	65286	25736	16561
80°	61653	17808	10971
85°	54569	10929	5464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	5.3
10°-20°	672.8	14.5
20°-30°	934.0	20.1
30°-40°	967.5	20.8
40°-50°	795.0	17.1
50°-60°	546.4	11.7
60°-70°	314.1	6.7
70°-80°	144.4	3.1
80°-90°	35.2	0.8
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°	1852.5	39.8
0°-40°	2819.9	60.6
0°-60°	4161.3	89.4
0°-90°	4655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4655.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2626	2626	2626	2626	2626	
5°	2652	2641	2593	2557	2550	253
15°	2593	2517	2367	2272	2265	730
25°	2353	2196	1955	1871	1889	1077
35°	1820	1670	1474	1430	1455	1129
45°	1164	1076	985	974	992	906
55°	737	668	576	544	540	663
65°	463	405	295	208	215	461
75°	259	204	102	66	66	274
85°	73	51	15	7	7	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°	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1
2.5°	2637.1	2658.9	2644.3	2640.7	2648.0	2648.0	2648.0	2637.1	2644.3	2633.4	2640.7
5°	2651.6	2669.9	2655.3	2648.0	2655.3	2658.9	2648.0	2640.7	2651.6	2637.1	2640.7
7.5°	2651.6	2669.9	2655.3	2651.6	2655.3	2655.3	2651.6	2637.1	2644.3	2629.8	2629.8
10°	2644.3	2658.9	2644.3	2637.1	2640.7	2637.1	2637.1	2618.8	2622.5	2604.2	2604.2
12.5°	2622.5	2640.7	2622.5	2615.2	2615.2	2615.2	2604.2	2589.6	2593.3	2571.4	2567.8
15°	2593.3	2607.9	2589.6	2582.3	2582.3	2578.7	2571.4	2549.5	2549.5	2527.6	2516.7
17.5°	2549.5	2564.1	2549.5	2538.6	2534.9	2527.6	2520.3	2498.5	2491.2	2465.6	2454.7
20°	2498.5	2509.4	2494.8	2483.9	2476.6	2469.3	2454.7	2432.8	2425.5	2400.0	2381.7
22.5°	2432.8	2447.4	2425.5	2414.6	2407.3	2396.3	2381.7	2359.9	2348.9	2316.1	2294.2
25°	2352.6	2359.9	2341.6	2330.7	2316.1	2308.8	2297.8	2268.7	2257.7	2221.3	2195.7
27.5°	2250.4	2257.7	2235.8	2228.5	2210.3	2203.0	2188.4	2162.9	2148.3	2111.8	2086.3
30°	2122.8	2130.1	2115.5	2104.5	2089.9	2075.4	2064.4	2038.9	2017.0	1980.5	1958.6
32.5°	1980.5	1991.5	1976.9	1962.3	1936.8	1940.4	1922.2	1896.6	1878.4	1845.6	1820.0
35°	1820.0	1827.3	1809.1	1805.5	1790.9	1776.3	1758.0	1739.8	1728.9	1692.4	1670.5
37.5°	1641.3	1659.6	1641.3	1626.7	1619.4	1608.5	1597.5	1572.0	1564.7	1542.8	1513.7
40°	1469.9	1480.8	1469.9	1455.3	1444.4	1444.4	1429.8	1415.2	1396.9	1375.1	1364.1
42.5°	1316.7	1309.4	1305.8	1298.5	1283.9	1280.2	1276.6	1258.3	1247.4	1225.5	1207.3
45°	1163.5	1167.2	1159.9	1156.2	1145.3	1138.0	1130.7	1116.1	1112.4	1090.6	1076.0
47.5°	1035.9	1032.2	1024.9	1024.9	1017.6	1010.3	1003.0	992.1	988.4	970.2	955.6
50°	919.1	922.8	919.1	915.5	904.5	900.9	893.6	886.3	879.0	860.8	846.2
52.5°	824.3	820.7	817.0	817.0	806.1	802.4	795.1	787.8	780.5	762.3	751.4
55°	736.8	736.8	733.1	729.5	718.5	714.9	711.2	703.9	693.0	678.4	667.5
57.5°	656.5	656.5	652.9	649.2	641.9	641.9	634.6	627.3	620.1	605.5	590.9
60°	583.6	587.2	583.6	579.9	572.6	572.6	569.0	558.0	554.4	536.2	525.2
62.5°	521.6	521.6	521.6	517.9	514.3	507.0	507.0	496.0	488.7	477.8	463.2
65°	463.2	463.2	463.2	459.6	452.3	448.6	445.0	437.7	430.4	419.4	404.9
67.5°	408.5	408.5	408.5	404.9	397.6	393.9	390.3	386.6	375.7	364.7	350.1
70°	357.4	357.4	353.8	350.1	346.5	342.9	339.2	331.9	324.6	310.0	299.1
72.5°	306.4	306.4	306.4	299.1	295.4	295.4	288.1	284.5	277.2	262.6	251.7
75°	259.0	255.3	255.3	251.7	248.0	244.4	240.7	237.1	226.1	218.8	204.3
77.5°	211.5	211.5	207.9	204.3	204.3	200.6	197.0	189.7	186.0	175.1	164.1
80°	164.1	164.1	164.1	164.1	160.5	156.8	156.8	149.5	145.9	135.0	127.7
82.5°	124.0	120.4	120.4	120.4	116.7	113.1	113.1	109.4	105.8	98.5	91.2
85°	72.9	69.3	69.3	69.3	65.7	65.7	62.0	62.0	58.4	51.1	51.1
87.5°	21.9	21.9	25.5	25.5	21.9	21.9	21.9	21.9	21.9	18.2	18.2
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°	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1
2.5°	2633.4	2644.3	2629.8	2626.1	2640.7	2633.4	2629.8	2622.5	2626.1	2618.8	2607.9
5°	2629.8	2644.3	2626.1	2615.2	2633.4	2622.5	2615.2	2607.9	2607.9	2593.3	2586.0
7.5°	2618.8	2626.1	2607.9	2596.9	2607.9	2596.9	2589.6	2578.7	2575.0	2556.8	2545.9
10°	2589.6	2596.9	2575.0	2560.5	2571.4	2556.8	2545.9	2534.9	2527.6	2505.7	2491.2
12.5°	2549.5	2553.2	2527.6	2509.4	2516.7	2505.7	2487.5	2472.9	2465.6	2443.7	2425.5
15°	2494.8	2498.5	2469.3	2443.7	2451.0	2436.4	2414.6	2400.0	2389.0	2367.1	2341.6
17.5°	2429.2	2425.5	2392.7	2367.1	2370.8	2352.6	2330.7	2308.8	2294.2	2268.7	2250.4
20°	2356.2	2345.3	2308.8	2279.6	2283.3	2261.4	2235.8	2214.0	2195.7	2173.8	2148.3
22.5°	2265.0	2250.4	2217.6	2181.1	2184.8	2166.5	2130.1	2111.8	2093.6	2064.4	2042.5
25°	2166.5	2144.7	2111.8	2075.4	2075.4	2053.5	2024.3	2002.4	1984.2	1955.0	1929.5
27.5°	2049.8	2038.9	1995.1	1965.9	1962.3	1940.4	1914.9	1889.3	1867.5	1841.9	1816.4
30°	1922.2	1903.9	1871.1	1838.3	1831.0	1812.7	1787.2	1758.0	1743.4	1717.9	1696.0
32.5°	1787.2	1769.0	1732.5	1699.7	1696.0	1681.4	1659.6	1630.4	1615.8	1597.5	1583.0
35°	1634.0	1626.7	1590.3	1564.7	1564.7	1550.1	1528.2	1502.7	1491.8	1473.5	1455.3
37.5°	1488.1	1477.2	1444.4	1422.5	1422.5	1404.2	1382.4	1371.4	1360.5	1345.9	1334.9
40°	1334.9	1327.6	1302.1	1280.2	1283.9	1269.3	1254.7	1240.1	1232.8	1225.5	1214.6
42.5°	1192.7	1185.4	1167.2	1148.9	1148.9	1138.0	1123.4	1112.4	1105.2	1094.2	1090.6
45°	1065.0	1054.1	1039.5	1021.3	1021.3	1010.3	1003.0	995.7	992.1	984.8	973.8
47.5°	941.0	933.7	919.1	900.9	900.9	900.9	886.3	875.4	875.4	868.1	864.4
50°	835.2	824.3	813.4	798.8	798.8	791.5	780.5	769.6	769.6	765.9	758.7
52.5°	736.8	729.5	714.9	700.3	700.3	693.0	682.1	678.4	674.8	663.8	660.2
55°	652.9	645.6	634.6	616.4	612.8	609.1	598.2	590.9	587.2	576.3	576.3
57.5°	576.3	569.0	550.8	539.8	536.2	528.9	517.9	510.6	507.0	499.7	492.4
60°	510.6	499.7	485.1	470.5	466.9	459.6	448.6	441.3	437.7	423.1	415.8
62.5°	448.6	437.7	423.1	408.5	404.9	397.6	383.0	375.7	368.4	353.8	346.5
65°	390.3	379.3	364.7	350.1	342.9	339.2	324.6	313.7	306.4	295.4	280.8
67.5°	335.6	324.6	310.0	291.8	291.8	280.8	269.9	259.0	248.0	237.1	226.1
70°	284.5	273.6	259.0	244.4	240.7	233.4	222.5	207.9	200.6	186.0	175.1
72.5°	237.1	226.1	211.5	197.0	193.3	186.0	175.1	160.5	149.5	138.6	127.7
75°	193.3	182.4	167.8	156.8	153.2	145.9	135.0	120.4	109.4	102.1	91.2
77.5°	153.2	142.2	131.3	120.4	116.7	109.4	98.5	91.2	80.2	72.9	62.0
80°	116.7	109.4	98.5	91.2	87.5	80.2	72.9	62.0	54.7	47.4	43.8
82.5°	83.9	76.6	69.3	58.4	58.4	51.1	47.4	40.1	32.8	29.2	25.5
85°	47.4	40.1	36.5	32.8	29.2	29.2	25.5	21.9	18.2	14.6	14.6
87.5°	14.6	14.6	10.9	10.9	10.9	10.9	7.3	7.3	7.3	7.3	7.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1
2.5°	2607.9	2611.5	2604.2	2611.5	2604.2	2607.9	2600.6	2607.9	2600.6	2607.9	2593.3
5°	2582.3	2582.3	2571.4	2578.7	2571.4	2575.0	2560.5	2564.1	2556.8	2564.1	2549.5
7.5°	2538.6	2542.2	2524.0	2531.3	2520.3	2520.3	2509.4	2513.0	2502.1	2505.7	2494.8
10°	2487.5	2483.9	2465.6	2472.9	2458.3	2458.3	2447.4	2447.4	2432.8	2436.4	2421.9
12.5°	2414.6	2410.9	2389.0	2396.3	2381.7	2381.7	2370.8	2370.8	2356.2	2363.5	2348.9
15°	2330.7	2327.0	2305.1	2308.8	2294.2	2294.2	2279.6	2283.3	2272.3	2279.6	2265.0
17.5°	2235.8	2232.2	2210.3	2214.0	2195.7	2199.4	2188.4	2184.8	2177.5	2181.1	2170.2
20°	2137.4	2130.1	2108.2	2111.8	2104.5	2093.6	2086.3	2089.9	2082.7	2089.9	2079.0
22.5°	2035.2	2020.6	2002.4	2002.4	1995.1	1995.1	1984.2	1991.5	1976.9	1987.8	1980.5
25°	1918.5	1907.6	1893.0	1900.3	1885.7	1885.7	1874.8	1878.4	1871.1	1878.4	1871.1
27.5°	1805.5	1798.2	1776.3	1783.6	1772.6	1776.3	1765.3	1769.0	1765.3	1772.6	1765.3
30°	1685.1	1681.4	1666.8	1666.8	1663.2	1659.6	1655.9	1655.9	1652.3	1663.2	1655.9
32.5°	1572.0	1561.1	1546.5	1557.4	1539.2	1550.1	1542.8	1550.1	1542.8	1550.1	1546.5
35°	1455.3	1451.7	1433.4	1437.1	1433.4	1433.4	1429.8	1429.8	1429.8	1440.7	1440.7
37.5°	1331.3	1327.6	1316.7	1320.3	1313.1	1309.4	1309.4	1316.7	1316.7	1324.0	1324.0
40°	1210.9	1214.6	1203.6	1203.6	1200.0	1200.0	1200.0	1207.3	1203.6	1210.9	1207.3
42.5°	1090.6	1090.6	1079.6	1083.3	1079.6	1083.3	1083.3	1090.6	1090.6	1094.2	1090.6
45°	977.5	977.5	973.8	977.5	970.2	973.8	970.2	977.5	973.8	977.5	977.5
47.5°	864.4	864.4	864.4	860.8	860.8	860.8	860.8	860.8	857.1	864.4	860.8
50°	758.7	762.3	758.7	758.7	755.0	758.7	755.0	755.0	747.7	751.4	751.4
52.5°	663.8	663.8	656.5	656.5	656.5	652.9	652.9	652.9	649.2	649.2	641.9
55°	572.6	572.6	565.3	565.3	561.7	558.0	554.4	554.4	543.5	543.5	532.5
57.5°	488.7	485.1	474.2	474.2	466.9	463.2	459.6	455.9	448.6	441.3	437.7
60°	412.2	404.9	397.6	393.9	386.6	379.3	372.0	364.7	357.4	353.8	350.1
62.5°	339.2	328.3	321.0	317.3	310.0	299.1	291.8	284.5	277.2	273.6	266.3
65°	273.6	262.6	251.7	248.0	240.7	233.4	222.5	215.2	207.9	204.3	204.3
67.5°	215.2	204.3	189.7	189.7	182.4	175.1	167.8	160.5	156.8	160.5	160.5
70°	160.5	153.2	142.2	138.6	131.3	124.0	120.4	120.4	120.4	124.0	120.4
72.5°	120.4	109.4	102.1	98.5	94.8	91.2	91.2	91.2	87.5	91.2	91.2
75°	83.9	76.6	69.3	69.3	65.7	65.7	65.7	65.7	65.7	65.7	65.7
77.5°	58.4	51.1	47.4	47.4	47.4	43.8	43.8	43.8	43.8	43.8	43.8
80°	36.5	36.5	32.8	32.8	29.2	29.2	29.2	29.2	29.2	29.2	29.2
82.5°	21.9	21.9	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
85°	10.9	10.9	10.9	10.9	10.9	7.3	7.3	7.3	7.3	7.3	7.3
87.5°	3.6	3.6	3.6	3.6	3.6	7.3	7.3	7.3	7.3	7.3	7.3
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: P252507

CATALOG NUMBER: LD6B50D010TE EU6B30508035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1
2.5°	2593.3	2604.2	2589.6	2600.6	2596.9	2593.3	2586.0	2600.6
5°	2549.5	2553.2	2538.6	2553.2	2549.5	2542.2	2534.9	2549.5
7.5°	2487.5	2498.5	2480.2	2494.8	2491.2	2483.9	2476.6	2491.2
10°	2418.2	2429.2	2414.6	2425.5	2425.5	2418.2	2407.3	2421.9
12.5°	2341.6	2348.9	2334.3	2348.9	2345.3	2338.0	2334.3	2345.3
15°	2257.7	2268.7	2254.1	2265.0	2261.4	2257.7	2254.1	2265.0
17.5°	2166.5	2177.5	2166.5	2177.5	2177.5	2166.5	2162.9	2170.2
20°	2075.4	2082.7	2071.7	2082.7	2079.0	2079.0	2071.7	2082.7
22.5°	1973.2	1984.2	1976.9	1984.2	1980.5	1980.5	1976.9	1984.2
25°	1871.1	1882.0	1871.1	1882.0	1878.4	1878.4	1871.1	1889.3
27.5°	1769.0	1776.3	1765.3	1779.9	1776.3	1769.0	1772.6	1776.3
30°	1659.6	1666.8	1659.6	1670.5	1670.5	1670.5	1663.2	1670.5
32.5°	1550.1	1561.1	1550.1	1561.1	1557.4	1557.4	1553.8	1561.1
35°	1440.7	1444.4	1437.1	1448.0	1448.0	1451.7	1444.4	1455.3
37.5°	1327.6	1331.3	1327.6	1331.3	1338.6	1327.6	1334.9	1338.6
40°	1210.9	1218.2	1214.6	1218.2	1218.2	1221.9	1218.2	1221.9
42.5°	1094.2	1101.5	1094.2	1105.2	1101.5	1101.5	1105.2	1105.2
45°	973.8	984.8	977.5	984.8	988.4	984.8	984.8	992.1
47.5°	860.8	868.1	864.4	868.1	868.1	868.1	868.1	875.4
50°	747.7	751.4	751.4	755.0	755.0	758.7	751.4	755.0
52.5°	634.6	641.9	641.9	641.9	638.3	641.9	641.9	641.9
55°	532.5	536.2	528.9	536.2	536.2	532.5	532.5	539.8
57.5°	434.0	434.0	434.0	434.0	434.0	430.4	434.0	434.0
60°	342.9	346.5	342.9	342.9	342.9	342.9	339.2	346.5
62.5°	266.3	266.3	262.6	266.3	266.3	266.3	269.9	269.9
65°	207.9	211.5	207.9	211.5	211.5	211.5	211.5	215.2
67.5°	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1
70°	124.0	124.0	124.0	127.7	124.0	124.0	124.0	127.7
72.5°	91.2	91.2	91.2	91.2	91.2	91.2	94.8	94.8
75°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
77.5°	43.8	43.8	43.8	47.4	43.8	47.4	43.8	43.8
80°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
82.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
87.5°	7.3	7.3	7.3	7.3	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)