

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: P252402

Luminaire Tested: **LD6B50D010TE EU6B30508030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252402
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 EU6B30508030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4833.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

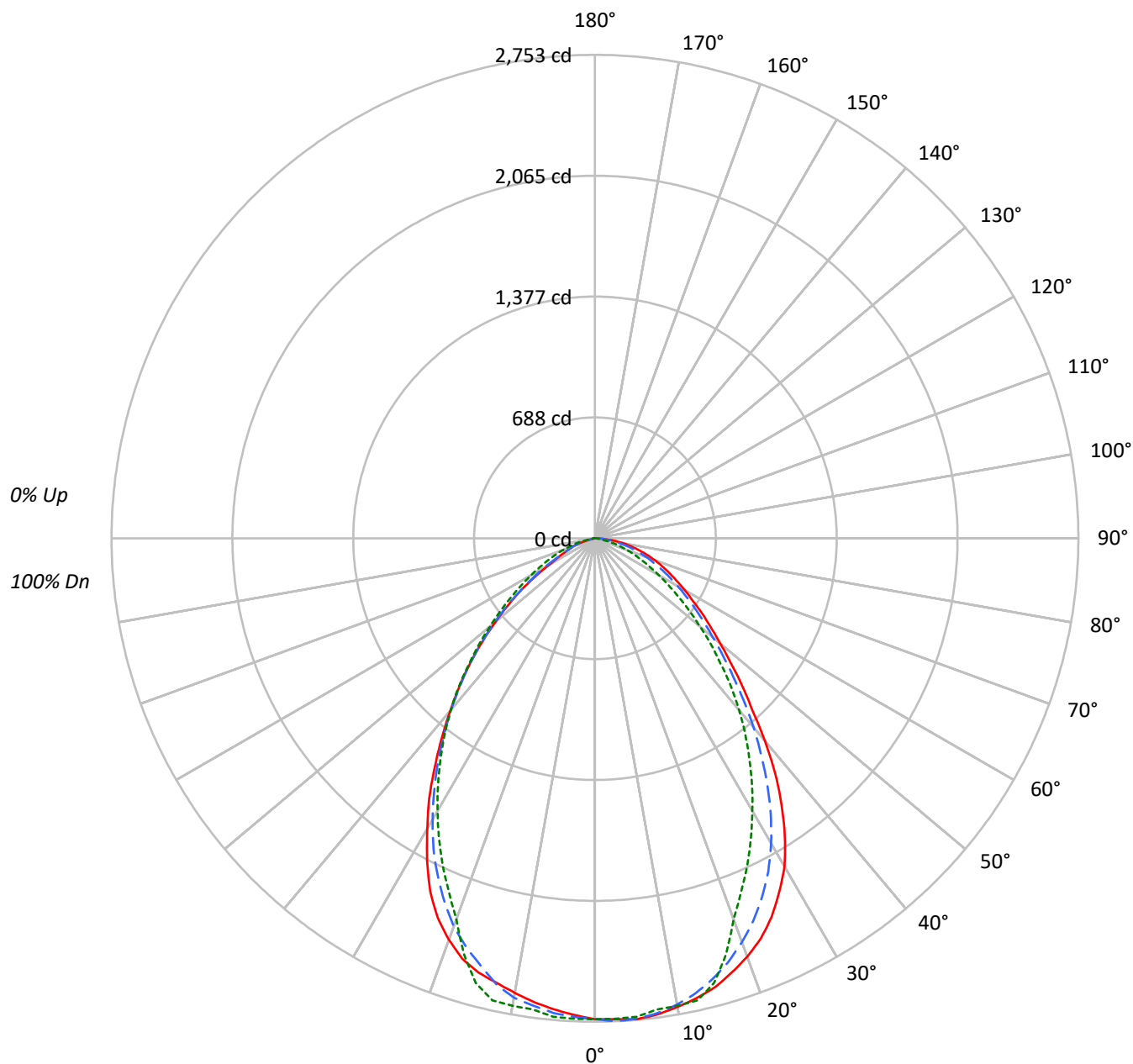
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	105	102	99	101	98	96	97	95	93	93	92	90
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	178655	178655	178655
5°	180038	179108	176312
10°	179530	179059	174111
15°	178716	177035	172948
20°	176048	160246	168890
25°	171267	147713	159749
30°	162622	135028	143872
35°	147573	122078	126610
40°	128123	108731	109038
45°	109268	93519	92532
50°	94574	79045	74722
55°	84546	65937	57850
60°	77036	54763	38975
65°	71922	45015	29099
70°	68518	36624	24416
75°	64555	25988	8066
80°	61465	13375	2668
85°	50602	8010	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	5.4
10°-20°	723.3	15.0
20°-30°	998.3	20.7
30°-40°	1015.9	21.0
40°-50°	816.5	16.9
50°-60°	542.9	11.2
60°-70°	309.4	6.4
70°-80°	139.0	2.9
80°-90°	29.3	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°	1980.2	41.0
0°-40°	2996.1	62.0
0°-60°	4355.4	90.1
0°-90°	4833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4833.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2738	2738	2738	2738	2738	
5°	2749	2746	2735	2714	2692	261
15°	2646	2596	2621	2518	2561	745
25°	2379	2251	2052	2120	2219	1090
35°	1853	1711	1533	1561	1590	1152
45°	1184	1113	1014	1003	1003	918
55°	743	694	580	516	509	668
65°	466	416	292	188	188	464
75°	256	213	103	43	32	273
85°	68	46	11	4	0	80
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°	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4
2.5°	2742.0	2756.2	2752.6	2749.1	2752.6	2749.1	2742.0	2742.0	2734.9	2734.9	2752.6
5°	2749.1	2756.2	2752.6	2749.1	2749.1	2752.6	2738.4	2738.4	2731.3	2727.7	2745.5
7.5°	2734.9	2745.5	2738.4	2738.4	2734.9	2738.4	2724.2	2724.2	2713.5	2710.0	2727.7
10°	2710.0	2724.2	2717.1	2717.1	2717.1	2710.0	2702.9	2699.3	2688.6	2685.1	2695.7
12.5°	2681.5	2692.2	2688.6	2681.5	2681.5	2681.5	2667.3	2663.7	2649.5	2642.4	2653.1
15°	2646.0	2653.1	2649.5	2646.0	2638.8	2638.8	2624.6	2617.5	2603.3	2589.0	2596.2
17.5°	2592.6	2603.3	2596.2	2592.6	2581.9	2581.9	2567.7	2560.6	2539.3	2525.0	2528.6
20°	2535.7	2539.3	2535.7	2528.6	2517.9	2514.4	2500.1	2485.9	2468.1	2450.4	2446.8
22.5°	2468.1	2471.7	2461.0	2453.9	2443.2	2439.7	2421.9	2411.2	2382.8	2361.4	2357.9
25°	2379.2	2382.8	2382.8	2365.0	2357.9	2350.8	2333.0	2315.2	2290.3	2261.9	2251.2
27.5°	2272.5	2283.2	2276.1	2258.3	2244.1	2240.5	2222.7	2208.5	2176.5	2151.6	2137.4
30°	2158.7	2155.2	2151.6	2140.9	2119.6	2116.1	2098.3	2080.5	2055.6	2023.6	2005.8
32.5°	2012.9	2012.9	2009.4	1998.7	1977.4	1970.2	1956.0	1934.7	1906.2	1881.3	1863.5
35°	1852.9	1856.4	1852.9	1831.5	1817.3	1810.2	1803.1	1778.2	1753.3	1724.8	1710.6
37.5°	1685.7	1675.1	1678.6	1660.8	1643.1	1650.2	1628.8	1618.2	1589.7	1568.4	1554.1
40°	1504.4	1511.5	1497.2	1490.1	1479.5	1468.8	1468.8	1451.0	1436.8	1411.9	1404.8
42.5°	1326.5	1337.2	1333.6	1326.5	1312.3	1315.9	1298.1	1291.0	1273.2	1262.5	1251.8
45°	1184.3	1184.3	1184.3	1177.2	1173.6	1166.5	1155.8	1145.2	1134.5	1120.3	1113.1
47.5°	1045.6	1045.6	1049.1	1042.0	1034.9	1031.4	1024.2	1024.2	1006.5	992.2	985.1
50°	931.8	931.8	931.8	924.7	917.5	917.5	910.4	903.3	892.7	882.0	874.9
52.5°	828.6	828.6	828.6	821.5	818.0	814.4	810.9	807.3	793.1	786.0	778.8
55°	743.3	739.7	739.7	736.2	729.1	729.1	725.5	718.4	707.7	697.1	693.5
57.5°	657.9	661.5	657.9	657.9	650.8	650.8	643.7	640.1	629.5	622.4	615.3
60°	590.4	590.4	590.4	586.8	579.7	583.2	576.1	572.6	561.9	551.2	544.1
62.5°	522.8	526.3	526.3	522.8	515.7	515.7	512.1	508.6	497.9	487.2	476.6
65°	465.9	465.9	465.9	462.3	458.8	458.8	455.2	451.7	441.0	426.8	416.1
67.5°	412.5	409.0	409.0	409.0	405.4	401.9	398.3	394.8	384.1	373.4	359.2
70°	359.2	359.2	359.2	355.6	348.5	352.1	348.5	345.0	334.3	323.6	313.0
72.5°	309.4	309.4	305.8	302.3	302.3	298.7	298.7	295.2	284.5	270.3	259.6
75°	256.1	256.1	256.1	256.1	248.9	252.5	245.4	241.8	234.7	224.1	213.4
77.5°	209.8	209.8	209.8	206.3	202.7	202.7	199.2	195.6	184.9	177.8	163.6
80°	163.6	163.6	163.6	163.6	160.0	156.5	152.9	149.4	142.3	131.6	120.9
82.5°	120.9	120.9	117.4	117.4	117.4	113.8	110.2	106.7	99.6	92.5	85.4
85°	67.6	71.1	71.1	64.0	67.6	64.0	64.0	56.9	56.9	49.8	46.2
87.5°	24.9	21.3	21.3	21.3	21.3	21.3	21.3	17.8	17.8	17.8	14.2
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°	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4
2.5°	2738.4	2734.9	2749.1	2749.1	2727.7	2738.4	2742.0	2734.9	2734.9	2738.4	2727.7
5°	2731.3	2724.2	2738.4	2742.0	2720.6	2731.3	2734.9	2727.7	2731.3	2734.9	2720.6
7.5°	2706.4	2706.4	2717.1	2720.6	2699.3	2710.0	2710.0	2702.9	2706.4	2706.4	2695.7
10°	2681.5	2670.8	2681.5	2681.5	2663.7	2667.3	2674.4	2670.8	2685.1	2702.9	2702.9
12.5°	2635.3	2624.6	2642.4	2642.4	2631.7	2646.0	2663.7	2674.4	2688.6	2695.7	2674.4
15°	2578.4	2581.9	2613.9	2638.8	2628.2	2649.5	2667.3	2660.2	2642.4	2621.1	2589.0
17.5°	2503.7	2493.0	2521.5	2535.7	2521.5	2528.6	2542.8	2528.6	2500.1	2482.4	2439.7
20°	2418.3	2389.9	2389.9	2382.8	2357.9	2357.9	2354.3	2329.4	2318.8	2308.1	2290.3
22.5°	2322.3	2290.3	2279.6	2258.3	2237.0	2233.4	2222.7	2197.8	2183.6	2176.5	2155.2
25°	2212.1	2183.6	2165.8	2144.5	2112.5	2105.4	2094.7	2069.8	2062.7	2052.0	2034.3
27.5°	2098.3	2062.7	2037.8	2016.5	1988.0	1984.5	1963.1	1945.3	1931.1	1924.0	1909.8
30°	1966.7	1927.6	1909.8	1881.3	1860.0	1852.9	1835.1	1810.2	1799.5	1792.4	1781.8
32.5°	1820.9	1788.9	1771.1	1746.2	1717.7	1721.3	1700.0	1678.6	1671.5	1664.4	1653.7
35°	1678.6	1646.6	1625.3	1603.9	1586.1	1579.0	1564.8	1547.0	1536.4	1532.8	1525.7
37.5°	1522.1	1497.2	1479.5	1458.1	1443.9	1436.8	1429.7	1411.9	1404.8	1404.8	1390.5
40°	1369.2	1347.9	1333.6	1323.0	1305.2	1301.6	1294.5	1283.9	1280.3	1276.7	1266.1
42.5°	1230.5	1202.1	1191.4	1184.3	1173.6	1166.5	1162.9	1155.8	1152.3	1148.7	1138.0
45°	1098.9	1074.0	1063.4	1056.2	1045.6	1042.0	1038.5	1027.8	1020.7	1013.6	1010.0
47.5°	970.9	953.1	949.6	931.8	924.7	917.5	910.4	903.3	899.8	896.2	882.0
50°	860.6	850.0	832.2	821.5	814.4	810.9	796.6	786.0	782.4	778.8	768.2
52.5°	761.1	746.8	736.2	718.4	714.8	707.7	700.6	686.4	679.3	675.7	665.0
55°	672.2	661.5	647.3	633.0	622.4	618.8	608.1	593.9	586.8	579.7	572.6
57.5°	597.5	579.7	565.5	551.2	544.1	533.5	522.8	515.7	505.0	494.3	483.7
60°	526.3	512.1	494.3	480.1	473.0	465.9	451.7	441.0	430.3	419.7	409.0
62.5°	458.8	444.5	426.8	412.5	405.4	398.3	384.1	373.4	362.8	352.1	337.9
65°	398.3	384.1	369.9	355.6	348.5	341.4	327.2	313.0	302.3	291.6	277.4
67.5°	348.5	330.7	316.5	302.3	295.2	288.1	273.8	263.2	248.9	238.3	224.1
70°	295.2	281.0	270.3	256.1	248.9	241.8	227.6	213.4	202.7	192.0	177.8
72.5°	248.9	231.2	220.5	206.3	199.2	195.6	181.4	170.7	160.0	145.8	135.1
75°	199.2	184.9	170.7	160.0	152.9	149.4	135.1	124.5	113.8	103.1	92.5
77.5°	152.9	142.3	128.0	117.4	110.2	106.7	92.5	81.8	71.1	64.0	53.3
80°	113.8	99.6	92.5	81.8	78.2	71.1	64.0	53.3	46.2	35.6	28.5
82.5°	78.2	67.6	60.5	53.3	49.8	46.2	39.1	32.0	24.9	21.3	17.8
85°	42.7	35.6	32.0	28.5	24.9	24.9	21.3	17.8	14.2	10.7	7.1
87.5°	14.2	10.7	10.7	10.7	10.7	7.1	7.1	7.1	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°	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4
2.5°	2734.9	2734.9	2734.9	2731.3	2731.3	2731.3	2727.7	2742.0	2727.7	2724.2	2734.9
5°	2731.3	2724.2	2724.2	2724.2	2724.2	2720.6	2717.1	2724.2	2713.5	2710.0	2710.0
7.5°	2710.0	2706.4	2706.4	2702.9	2699.3	2695.7	2692.2	2695.7	2685.1	2681.5	2681.5
10°	2713.5	2706.4	2706.4	2695.7	2688.6	2678.0	2667.3	2670.8	2656.6	2646.0	2646.0
12.5°	2670.8	2653.1	2642.4	2631.7	2624.6	2621.1	2606.8	2613.9	2599.7	2596.2	2596.2
15°	2574.8	2553.5	2535.7	2528.6	2528.6	2521.5	2510.8	2525.0	2517.9	2521.5	2539.3
17.5°	2425.5	2414.8	2404.1	2400.6	2404.1	2411.2	2418.3	2439.7	2439.7	2450.4	2468.1
20°	2293.9	2286.8	2293.9	2293.9	2297.4	2311.7	2325.9	2343.7	2350.8	2361.4	2386.3
22.5°	2165.8	2165.8	2173.0	2183.6	2180.1	2205.0	2208.5	2240.5	2240.5	2261.9	2283.2
25°	2041.4	2041.4	2048.5	2052.0	2059.1	2073.4	2087.6	2112.5	2119.6	2140.9	2158.7
27.5°	1920.4	1916.9	1916.9	1920.4	1927.6	1945.3	1952.5	1980.9	1991.6	2005.8	2023.6
30°	1785.3	1781.8	1788.9	1796.0	1792.4	1810.2	1820.9	1842.2	1849.3	1863.5	1877.8
32.5°	1657.3	1657.3	1657.3	1664.4	1664.4	1678.6	1678.6	1703.5	1703.5	1714.2	1728.4
35°	1525.7	1525.7	1529.2	1532.8	1536.4	1539.9	1543.5	1557.7	1561.3	1564.8	1571.9
37.5°	1401.2	1397.7	1401.2	1401.2	1394.1	1408.3	1408.3	1422.6	1411.9	1422.6	1426.1
40°	1273.2	1273.2	1269.6	1269.6	1269.6	1276.7	1269.6	1280.3	1273.2	1280.3	1276.7
42.5°	1141.6	1141.6	1134.5	1141.6	1138.0	1138.0	1138.0	1145.2	1134.5	1141.6	1145.2
45°	1010.0	1006.5	1006.5	1002.9	1002.9	1002.9	1006.5	1006.5	1002.9	1010.0	1010.0
47.5°	882.0	878.4	878.4	878.4	878.4	882.0	871.3	878.4	871.3	871.3	871.3
50°	771.7	768.2	764.6	761.1	757.5	757.5	754.0	754.0	746.8	743.3	739.7
52.5°	665.0	661.5	654.4	654.4	650.8	647.3	636.6	636.6	625.9	622.4	622.4
55°	569.0	558.4	554.8	547.7	547.7	540.6	533.5	526.3	515.7	508.6	508.6
57.5°	480.1	469.4	462.3	458.8	455.2	448.1	433.9	430.3	416.1	412.5	409.0
60°	401.9	391.2	380.5	373.4	369.9	359.2	345.0	337.9	330.7	320.1	309.4
62.5°	327.2	316.5	302.3	298.7	291.6	281.0	270.3	259.6	252.5	241.8	234.7
65°	263.2	252.5	241.8	234.7	227.6	216.9	206.3	195.6	188.5	184.9	181.4
67.5°	213.4	199.2	188.5	184.9	177.8	170.7	160.0	156.5	149.4	149.4	149.4
70°	167.2	156.5	145.8	142.3	138.7	131.6	124.5	124.5	124.5	124.5	124.5
72.5°	124.5	117.4	106.7	103.1	99.6	96.0	88.9	92.5	88.9	88.9	88.9
75°	78.2	71.1	64.0	60.5	56.9	53.3	49.8	46.2	42.7	39.1	39.1
77.5°	42.7	35.6	32.0	28.5	28.5	24.9	21.3	21.3	17.8	17.8	17.8
80°	24.9	21.3	17.8	14.2	14.2	10.7	10.7	10.7	10.7	7.1	7.1
82.5°	14.2	10.7	7.1	7.1	7.1	7.1	3.6	3.6	3.6	3.6	3.6
85°	7.1	7.1	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: P252402

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4	2738.4
2.5°	2717.1	2727.7	2717.1	2727.7	2727.7	2727.7	2727.7	2717.1
5°	2699.3	2706.4	2695.7	2702.9	2706.4	2702.9	2702.9	2692.2
7.5°	2667.3	2674.4	2663.7	2674.4	2678.0	2674.4	2670.8	2663.7
10°	2635.3	2638.8	2628.2	2635.3	2642.4	2642.4	2638.8	2628.2
12.5°	2585.5	2596.2	2585.5	2592.6	2599.7	2603.3	2603.3	2592.6
15°	2528.6	2546.4	2539.3	2549.9	2560.6	2564.2	2564.2	2560.6
17.5°	2471.7	2489.5	2478.8	2496.6	2507.3	2514.4	2517.9	2510.8
20°	2389.9	2411.2	2404.1	2418.3	2432.6	2443.2	2443.2	2432.6
22.5°	2283.2	2311.7	2308.1	2318.8	2336.5	2340.1	2347.2	2340.1
25°	2165.8	2187.2	2183.6	2194.3	2215.6	2215.6	2219.2	2219.2
27.5°	2030.7	2052.0	2048.5	2055.6	2069.8	2073.4	2076.9	2069.8
30°	1884.9	1895.6	1895.6	1906.2	1916.9	1920.4	1920.4	1909.8
32.5°	1724.8	1739.1	1746.2	1742.6	1753.3	1760.4	1756.9	1756.9
35°	1579.0	1582.6	1586.1	1589.7	1593.3	1600.4	1593.3	1589.7
37.5°	1422.6	1433.2	1426.1	1433.2	1440.3	1436.8	1433.2	1433.2
40°	1280.3	1283.9	1276.7	1283.9	1287.4	1287.4	1287.4	1280.3
42.5°	1138.0	1145.2	1138.0	1145.2	1145.2	1145.2	1145.2	1141.6
45°	995.8	1002.9	1002.9	1006.5	1006.5	1002.9	1002.9	1002.9
47.5°	864.2	871.3	864.2	871.3	874.9	867.8	867.8	867.8
50°	739.7	736.2	736.2	739.7	739.7	739.7	739.7	736.2
52.5°	611.7	615.3	615.3	615.3	618.8	615.3	618.8	618.8
55°	501.5	501.5	501.5	505.0	501.5	501.5	505.0	508.6
57.5°	401.9	398.3	394.8	394.8	398.3	394.8	394.8	394.8
60°	309.4	305.8	302.3	302.3	302.3	302.3	302.3	298.7
62.5°	231.2	231.2	231.2	234.7	234.7	234.7	234.7	238.3
65°	184.9	184.9	184.9	184.9	184.9	184.9	184.9	188.5
67.5°	149.4	149.4	149.4	152.9	152.9	152.9	152.9	152.9
70°	124.5	124.5	128.0	124.5	128.0	128.0	128.0	128.0
72.5°	85.4	85.4	85.4	85.4	85.4	81.8	85.4	81.8
75°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	32.0
77.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
80°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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)