

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: P252726

Luminaire Tested: **LD6B60D010TE EU6B60708027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252726
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 EU6B60708027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5333.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

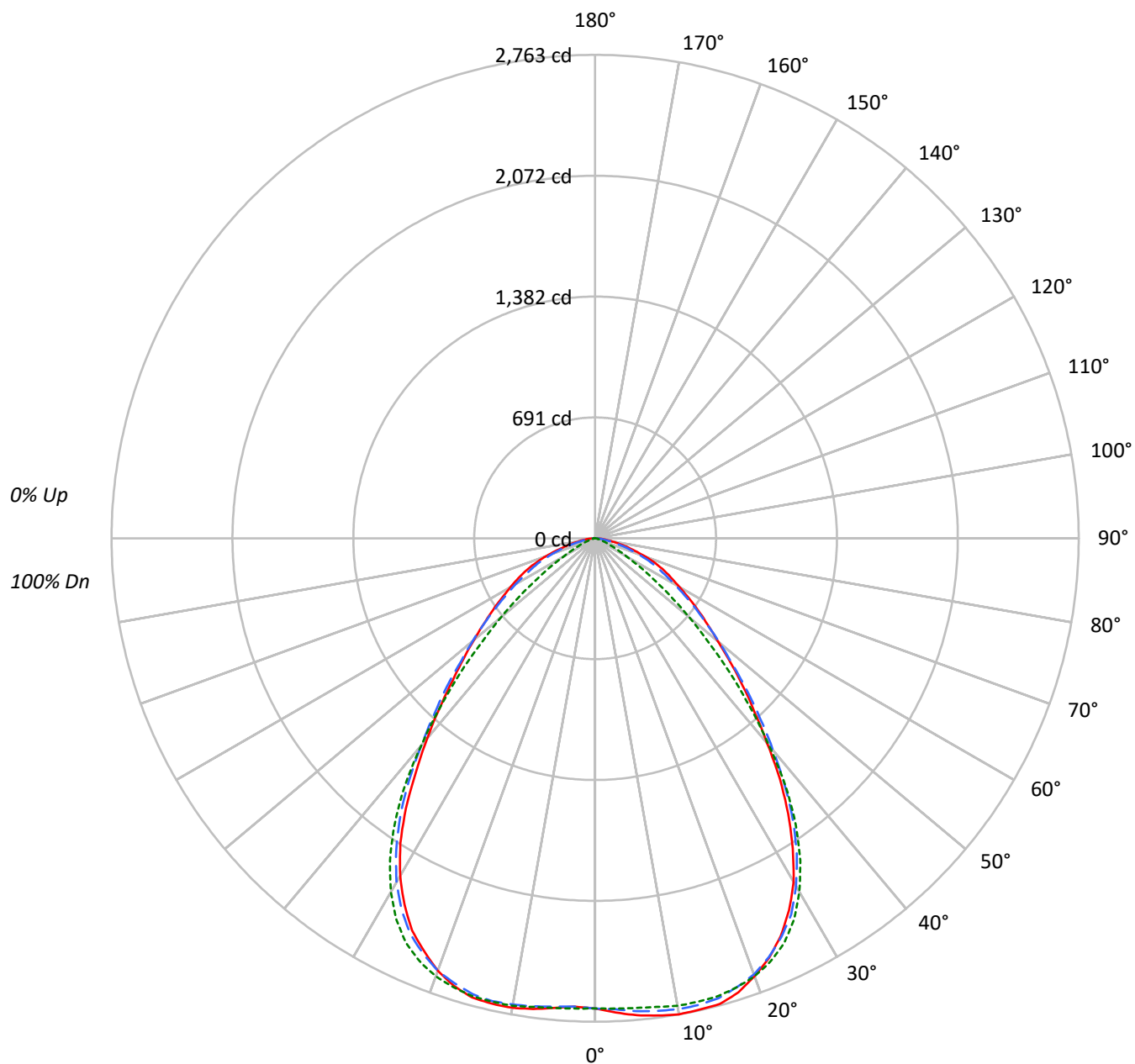
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	102	99	101	98	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	75	93	85	79	74	82	77	73		80	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	82	71	64	58	80	70	63	58	68	62	57		66	61	56		65
6	77	65	57	52	75	64	57	51	63	56	51		61	55	51		59
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	47	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	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	175295	175295	175295
5°	179200	176462	176462
10°	183034	179761	180517
15°	186099	183019	183532
20°	184962	184962	182588
25°	180560	183843	178098
30°	170916	175783	167767
35°	153156	159209	150129
40°	130116	131734	126880
45°	110099	100633	106242
50°	92961	70976	91803
55°	81702	45816	80838
60°	72404	27271	72900
65°	66874	16425	66874
70°	57988	9423	56539
75°	45978	5747	43104
80°	34264	4283	32837
85°	31289	2844	28445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.7	4.9
10°-20°	765.6	14.4
20°-30°	1151.4	21.6
30°-40°	1210.6	22.7
40°-50°	904.4	17.0
50°-60°	563.0	10.6
60°-70°	320.2	6.0
70°-80°	131.9	2.5
80°-90°	27.3	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°	2175.7	40.8
0°-40°	3386.3	63.5
0°-60°	4853.7	91.0
0°-90°	5333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5333.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2687	2687	2687	2687	2687	
5°	2736	2714	2694	2687	2694	262
15°	2755	2721	2710	2698	2717	775
25°	2508	2516	2554	2497	2474	1148
35°	1923	1972	1999	1942	1885	1193
45°	1193	1220	1091	1197	1152	925
55°	718	703	403	692	711	646
65°	433	388	106	388	433	427
75°	182	144	23	141	171	198
85°	42	27	4	23	38	47
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°	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9
2.5°	2713.5	2709.7	2713.5	2705.9	2702.1	2702.1	2705.9	2698.3	2694.5	2698.3	2694.5
5°	2736.3	2728.7	2732.5	2728.7	2721.1	2721.1	2724.9	2713.5	2713.5	2717.3	2713.5
7.5°	2751.5	2751.5	2751.5	2743.9	2740.1	2736.3	2743.9	2732.5	2728.7	2728.7	2724.9
10°	2762.9	2759.1	2762.9	2755.3	2747.7	2743.9	2751.5	2743.9	2736.3	2743.9	2732.5
12.5°	2759.1	2759.1	2759.1	2755.3	2747.7	2743.9	2751.5	2740.1	2736.3	2740.1	2732.5
15°	2755.3	2743.9	2747.7	2743.9	2732.5	2732.5	2736.3	2724.9	2717.3	2728.7	2721.1
17.5°	2721.1	2713.5	2717.3	2709.7	2702.1	2698.3	2702.1	2698.3	2690.7	2698.3	2690.7
20°	2664.1	2664.1	2667.9	2660.3	2652.7	2648.9	2656.5	2648.9	2641.3	2652.7	2652.7
22.5°	2595.7	2595.7	2595.7	2591.9	2588.1	2588.1	2588.1	2584.3	2580.5	2588.1	2591.9
25°	2508.3	2504.5	2508.3	2512.1	2508.3	2504.5	2508.3	2508.3	2500.7	2515.9	2515.9
27.5°	2398.0	2398.0	2405.7	2401.8	2401.8	2398.0	2405.7	2405.7	2401.8	2413.3	2424.7
30°	2268.8	2261.2	2268.8	2268.8	2272.6	2272.6	2276.4	2276.4	2276.4	2287.8	2295.4
32.5°	2101.6	2105.4	2116.8	2113.0	2109.2	2120.6	2120.6	2128.2	2132.0	2139.6	2143.4
35°	1923.0	1926.8	1926.8	1930.6	1938.2	1930.6	1949.6	1945.8	1949.6	1964.8	1972.4
37.5°	1733.0	1721.6	1740.6	1733.0	1736.8	1736.8	1744.4	1748.2	1759.6	1778.6	1778.6
40°	1527.8	1531.6	1539.2	1543.0	1546.8	1546.8	1546.8	1558.2	1562.0	1584.8	1581.0
42.5°	1349.1	1349.1	1356.7	1360.5	1360.5	1360.5	1360.5	1371.9	1379.5	1387.1	1394.7
45°	1193.3	1181.9	1189.5	1189.5	1197.1	1193.3	1200.9	1208.5	1212.3	1223.7	1219.9
47.5°	1045.1	1041.3	1045.1	1048.9	1045.1	1048.9	1052.7	1056.5	1060.3	1060.3	1060.3
50°	915.9	915.9	919.7	923.5	923.5	923.5	923.5	927.3	927.3	934.9	927.3
52.5°	809.5	813.3	813.3	809.5	813.3	813.3	817.1	817.1	813.3	813.3	801.9
55°	718.3	714.5	718.3	714.5	718.3	718.3	714.5	714.5	710.7	706.9	703.1
57.5°	630.9	630.9	630.9	630.9	627.1	630.9	627.1	623.3	623.3	615.7	604.3
60°	554.9	554.9	554.9	554.9	554.9	551.1	554.9	551.1	543.5	535.9	520.7
62.5°	490.3	486.5	490.3	486.5	486.5	482.7	482.7	478.8	471.2	463.6	448.4
65°	433.2	437.0	433.2	433.2	429.4	425.6	425.6	421.8	410.4	402.8	387.6
67.5°	372.4	368.6	368.6	368.6	364.8	364.8	364.8	357.2	349.6	338.2	323.0
70°	304.0	304.0	304.0	300.2	300.2	296.4	296.4	292.6	285.0	277.4	258.4
72.5°	239.4	239.4	239.4	231.8	235.6	231.8	231.8	224.2	220.4	209.0	197.6
75°	182.4	182.4	178.6	178.6	174.8	171.0	171.0	167.2	163.4	155.8	144.4
77.5°	133.0	133.0	133.0	129.2	125.4	121.6	121.6	117.8	114.0	110.2	102.6
80°	91.2	91.2	91.2	91.2	87.4	83.6	83.6	79.8	79.8	76.0	68.4
82.5°	60.8	60.8	60.8	60.8	57.0	57.0	57.0	53.2	49.4	49.4	41.8
85°	41.8	41.8	38.0	38.0	38.0	38.0	34.2	34.2	30.4	26.6	26.6
87.5°	22.8	22.8	22.8	22.8	19.0	19.0	19.0	19.0	15.2	15.2	11.4
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°	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9
2.5°	2705.9	2705.9	2702.1	2690.7	2694.5	2690.7	2694.5	2690.7	2679.3	2690.7	2679.3
5°	2721.1	2724.9	2717.3	2702.1	2705.9	2702.1	2702.1	2698.3	2686.9	2694.5	2686.9
7.5°	2736.3	2732.5	2728.7	2713.5	2717.3	2713.5	2713.5	2705.9	2694.5	2702.1	2690.7
10°	2743.9	2743.9	2736.3	2721.1	2721.1	2717.3	2721.1	2717.3	2702.1	2713.5	2705.9
12.5°	2743.9	2740.1	2740.1	2721.1	2724.9	2721.1	2724.9	2717.3	2705.9	2713.5	2709.7
15°	2732.5	2732.5	2728.7	2709.7	2713.5	2713.5	2717.3	2709.7	2698.3	2709.7	2702.1
17.5°	2709.7	2709.7	2705.9	2690.7	2698.3	2698.3	2702.1	2694.5	2683.1	2690.7	2690.7
20°	2664.1	2667.9	2667.9	2656.5	2664.1	2664.1	2667.9	2664.1	2660.3	2664.1	2656.5
22.5°	2610.9	2618.5	2618.5	2607.1	2614.7	2614.7	2626.1	2622.3	2614.7	2618.5	2614.7
25°	2531.1	2538.7	2546.3	2538.7	2546.3	2546.3	2557.7	2553.9	2546.3	2553.9	2542.5
27.5°	2439.9	2443.7	2451.3	2443.7	2455.1	2451.3	2462.7	2458.9	2447.5	2458.9	2455.1
30°	2310.6	2325.8	2337.2	2325.8	2337.2	2337.2	2344.8	2341.0	2337.2	2333.4	2333.4
32.5°	2166.2	2181.4	2181.4	2177.6	2185.2	2185.2	2189.0	2181.4	2177.6	2181.4	2185.2
35°	1987.6	1995.2	2002.8	1999.0	2002.8	2006.6	2002.8	2006.6	1995.2	1999.0	1999.0
37.5°	1793.8	1801.4	1801.4	1790.0	1797.6	1797.6	1790.0	1790.0	1782.4	1790.0	1774.8
40°	1588.6	1581.0	1584.8	1577.2	1569.6	1569.6	1565.8	1550.6	1543.0	1546.8	1550.6
42.5°	1387.1	1387.1	1375.7	1356.7	1337.7	1337.7	1326.3	1318.7	1303.5	1311.1	1307.3
45°	1216.1	1197.1	1181.9	1151.5	1140.1	1132.5	1113.5	1094.5	1086.9	1090.7	1086.9
47.5°	1052.7	1037.5	999.5	957.7	946.3	934.9	912.1	889.3	881.7	874.1	874.1
50°	915.9	889.3	847.5	801.9	782.9	763.9	733.5	710.7	695.5	699.3	699.3
52.5°	790.5	760.1	710.7	653.7	630.9	608.1	581.5	554.9	543.5	539.7	539.7
55°	680.3	646.1	596.7	532.1	513.1	486.5	452.2	421.8	406.6	402.8	410.4
57.5°	581.5	551.1	494.1	429.4	406.6	380.0	345.8	319.2	300.2	296.4	300.2
60°	501.7	459.8	410.4	349.6	319.2	296.4	258.4	235.6	216.6	209.0	212.8
62.5°	421.8	383.8	334.4	273.6	250.8	228.0	193.8	167.2	152.0	148.2	152.0
65°	361.0	323.0	277.4	224.2	201.4	178.6	148.2	121.6	110.2	106.4	110.2
67.5°	300.2	266.0	228.0	178.6	159.6	140.6	110.2	91.2	76.0	72.2	76.0
70°	243.2	212.8	174.8	140.6	121.6	106.4	83.6	64.6	53.2	49.4	53.2
72.5°	182.4	159.6	133.0	102.6	91.2	79.8	60.8	45.6	38.0	34.2	38.0
75°	133.0	114.0	95.0	72.2	64.6	57.0	41.8	30.4	26.6	22.8	26.6
77.5°	91.2	79.8	64.6	49.4	41.8	38.0	26.6	22.8	19.0	15.2	15.2
80°	60.8	53.2	41.8	34.2	30.4	26.6	19.0	15.2	11.4	11.4	11.4
82.5°	38.0	30.4	26.6	19.0	15.2	15.2	11.4	7.6	7.6	7.6	7.6
85°	22.8	19.0	15.2	11.4	7.6	7.6	3.8	3.8	3.8	3.8	3.8
87.5°	11.4	7.6	7.6	3.8	3.8	3.8	3.8	3.8	0.0	0.0	3.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9
2.5°	2686.9	2679.3	2679.3	2683.1	2686.9	2690.7	2683.1	2679.3	2679.3	2690.7	2683.1
5°	2686.9	2683.1	2683.1	2683.1	2690.7	2694.5	2686.9	2683.1	2686.9	2698.3	2694.5
7.5°	2698.3	2690.7	2694.5	2694.5	2698.3	2705.9	2698.3	2694.5	2698.3	2709.7	2702.1
10°	2705.9	2698.3	2702.1	2698.3	2709.7	2713.5	2705.9	2702.1	2705.9	2721.1	2717.3
12.5°	2709.7	2705.9	2705.9	2702.1	2713.5	2717.3	2709.7	2705.9	2709.7	2721.1	2717.3
15°	2702.1	2698.3	2698.3	2698.3	2705.9	2713.5	2702.1	2698.3	2698.3	2709.7	2705.9
17.5°	2686.9	2679.3	2679.3	2679.3	2683.1	2686.9	2675.5	2671.7	2667.9	2679.3	2675.5
20°	2660.3	2652.7	2645.1	2645.1	2648.9	2648.9	2641.3	2629.9	2629.9	2633.7	2626.1
22.5°	2610.9	2607.1	2599.5	2595.7	2603.3	2599.5	2584.3	2572.9	2569.1	2572.9	2565.3
25°	2542.5	2534.9	2531.1	2527.3	2531.1	2527.3	2512.1	2496.9	2496.9	2496.9	2485.5
27.5°	2447.5	2439.9	2436.1	2436.1	2439.9	2432.3	2417.1	2401.8	2394.2	2394.2	2382.8
30°	2325.8	2325.8	2322.0	2318.2	2314.4	2314.4	2291.6	2276.4	2268.8	2272.6	2265.0
32.5°	2177.6	2173.8	2170.0	2158.6	2162.4	2158.6	2139.6	2128.2	2116.8	2109.2	2105.4
35°	1987.6	1987.6	1983.8	1983.8	1983.8	1980.0	1961.0	1949.6	1942.0	1938.2	1926.8
37.5°	1778.6	1774.8	1771.0	1771.0	1771.0	1771.0	1759.6	1748.2	1748.2	1744.4	1736.8
40°	1543.0	1546.8	1550.6	1546.8	1558.2	1569.6	1554.4	1546.8	1543.0	1554.4	1539.2
42.5°	1314.9	1311.1	1330.1	1333.9	1333.9	1352.9	1356.7	1360.5	1356.7	1364.3	1364.3
45°	1094.5	1090.7	1109.7	1117.3	1136.3	1159.1	1170.5	1189.5	1197.1	1204.7	1197.1
47.5°	885.5	900.7	915.9	934.9	950.1	988.1	1010.9	1029.9	1037.5	1048.9	1048.9
50°	710.7	725.9	752.5	767.7	786.7	832.3	870.3	896.9	912.1	923.5	919.7
52.5°	547.3	573.9	608.1	623.3	649.9	703.1	744.9	775.3	794.3	805.7	809.5
55°	421.8	444.6	478.8	501.7	528.3	585.3	638.5	672.7	691.7	706.9	714.5
57.5°	311.6	338.2	376.2	395.2	425.6	490.3	535.9	577.7	600.5	619.5	623.3
60°	228.0	254.6	288.8	311.6	342.0	406.6	459.8	497.9	524.5	539.7	547.3
62.5°	163.4	190.0	224.2	247.0	273.6	330.6	383.8	421.8	448.4	467.4	478.8
65°	117.8	144.4	178.6	197.6	220.4	273.6	323.0	361.0	387.6	410.4	418.0
67.5°	87.4	106.4	136.8	155.8	178.6	220.4	262.2	296.4	323.0	342.0	349.6
70°	64.6	79.8	106.4	117.8	133.0	171.0	205.2	235.6	258.4	273.6	281.2
72.5°	45.6	57.0	76.0	87.4	98.8	129.2	155.8	178.6	193.8	209.0	216.6
75°	30.4	38.0	53.2	60.8	68.4	91.2	110.2	129.2	140.6	152.0	155.8
77.5°	19.0	26.6	38.0	41.8	49.4	60.8	76.0	87.4	95.0	102.6	110.2
80°	11.4	15.2	22.8	26.6	30.4	41.8	49.4	57.0	64.6	72.2	76.0
82.5°	7.6	11.4	15.2	15.2	19.0	22.8	30.4	38.0	41.8	45.6	49.4
85°	3.8	3.8	7.6	7.6	11.4	11.4	15.2	19.0	22.8	26.6	30.4
87.5°	3.8	3.8	3.8	3.8	7.6	7.6	11.4	11.4	11.4	15.2	15.2
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: P252726

CATALOG NUMBER: LD6B60D010TE EU6B60708027 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9	2686.9
2.5°	2675.5	2686.9	2675.5	2683.1	2679.3	2679.3	2675.5	2679.3
5°	2686.9	2702.1	2686.9	2698.3	2690.7	2690.7	2690.7	2694.5
7.5°	2698.3	2713.5	2702.1	2713.5	2709.7	2705.9	2705.9	2713.5
10°	2709.7	2721.1	2713.5	2724.9	2721.1	2717.3	2717.3	2724.9
12.5°	2709.7	2724.9	2717.3	2728.7	2724.9	2721.1	2721.1	2724.9
15°	2698.3	2717.3	2705.9	2717.3	2713.5	2709.7	2709.7	2717.3
17.5°	2664.1	2679.3	2671.7	2679.3	2679.3	2675.5	2679.3	2683.1
20°	2618.5	2629.9	2622.3	2629.9	2629.9	2622.3	2626.1	2629.9
22.5°	2553.9	2565.3	2557.7	2565.3	2561.5	2557.7	2557.7	2553.9
25°	2474.1	2489.3	2477.9	2485.5	2477.9	2470.3	2470.3	2474.1
27.5°	2375.2	2386.6	2371.4	2379.0	2371.4	2363.8	2363.8	2360.0
30°	2246.0	2249.8	2238.4	2246.0	2238.4	2234.6	2227.0	2227.0
32.5°	2090.2	2094.0	2082.6	2082.6	2075.0	2075.0	2059.8	2071.2
35°	1907.8	1911.6	1907.8	1904.0	1892.6	1888.8	1885.0	1885.0
37.5°	1717.8	1717.8	1706.4	1702.6	1695.0	1687.4	1691.2	1679.8
40°	1524.0	1520.2	1508.8	1512.6	1508.8	1497.4	1493.6	1489.8
42.5°	1341.5	1341.5	1330.1	1333.9	1326.3	1322.5	1311.1	1314.9
45°	1181.9	1181.9	1170.5	1170.5	1166.7	1155.3	1159.1	1151.5
47.5°	1037.5	1037.5	1033.7	1033.7	1022.3	1018.5	1018.5	1018.5
50°	912.1	912.1	912.1	912.1	908.3	904.5	900.7	904.5
52.5°	805.7	813.3	809.5	809.5	805.7	801.9	798.1	798.1
55°	710.7	714.5	714.5	718.3	714.5	710.7	714.5	710.7
57.5°	627.1	634.7	634.7	634.7	634.7	634.7	630.9	627.1
60°	554.9	558.7	558.7	562.5	562.5	562.5	558.7	558.7
62.5°	482.7	490.3	494.1	494.1	497.9	494.1	494.1	494.1
65°	425.6	433.2	437.0	433.2	437.0	437.0	433.2	433.2
67.5°	357.2	364.8	364.8	364.8	364.8	368.6	364.8	364.8
70°	288.8	296.4	292.6	296.4	296.4	296.4	296.4	296.4
72.5°	220.4	224.2	228.0	228.0	231.8	228.0	228.0	228.0
75°	159.6	167.2	167.2	167.2	167.2	171.0	171.0	171.0
77.5°	114.0	117.8	117.8	121.6	121.6	121.6	121.6	125.4
80°	79.8	79.8	83.6	83.6	87.4	87.4	87.4	87.4
82.5°	53.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0
85°	30.4	34.2	34.2	34.2	34.2	38.0	38.0	38.0
87.5°	19.0	19.0	19.0	19.0	19.0	19.0	15.2	15.2
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)