

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: P252404

Luminaire Tested: **LD6B50D010TE EU6B30508040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252404
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 EU6B30508040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5007.0 lumens
Efficiency: N/A
Efficacy: 85.2 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

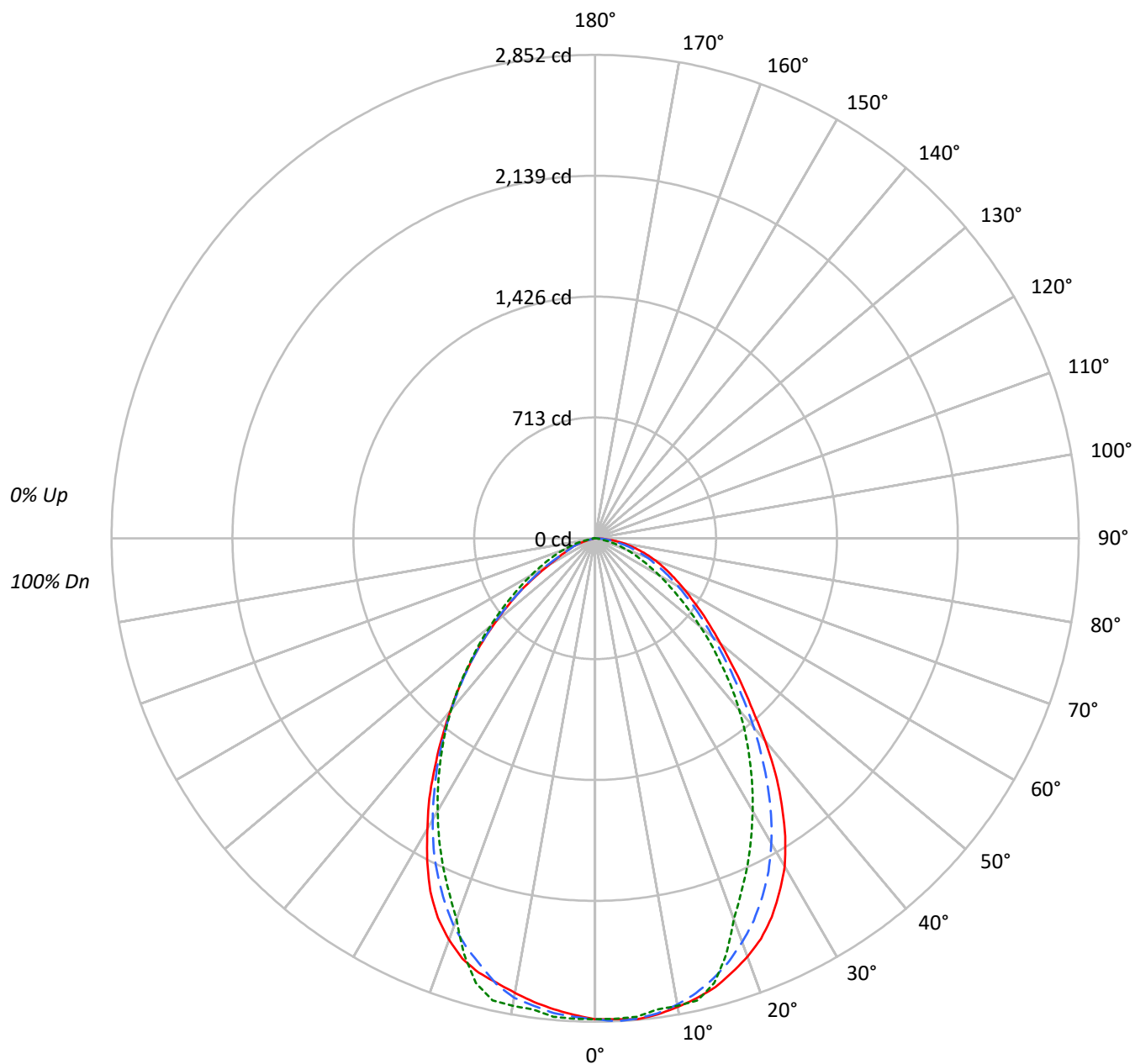
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54		
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	185088	185088	185088
5°	186522	185552	182658
10°	185989	185505	180378
15°	185146	183404	179176
20°	182386	166015	174965
25°	177436	153033	165501
30°	168476	139894	149047
35°	152885	126475	131166
40°	132731	112649	112964
45°	113199	96887	95862
50°	97974	81897	77411
55°	87583	68314	59931
60°	79802	56733	40384
65°	74516	46636	30149
70°	70978	37959	25294
75°	66874	26921	8369
80°	63682	13826	2780
85°	52399	8309	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	5.4
10°-20°	749.3	15.0
20°-30°	1034.3	20.7
30°-40°	1052.5	21.0
40°-50°	845.8	16.9
50°-60°	562.4	11.2
60°-70°	320.5	6.4
70°-80°	144.0	2.9
80°-90°	30.3	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°	2051.5	41.0
0°-40°	3104.0	62.0
0°-60°	4512.2	90.1
0°-90°	5007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5007.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2837	2837	2837	2837	2837	
5°	2848	2844	2833	2811	2789	270
15°	2741	2690	2715	2609	2653	771
25°	2465	2332	2126	2196	2299	1130
35°	1920	1772	1588	1618	1647	1193
45°	1227	1153	1050	1039	1039	951
55°	770	718	601	534	527	692
65°	483	431	302	195	195	481
75°	265	221	107	44	33	283
85°	70	48	11	4	0	83
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°	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0
2.5°	2840.7	2855.4	2851.7	2848.1	2851.7	2848.1	2840.7	2840.7	2833.3	2833.3	2851.7
5°	2848.1	2855.4	2851.7	2848.1	2848.1	2851.7	2837.0	2837.0	2829.6	2826.0	2844.4
7.5°	2833.3	2844.4	2837.0	2837.0	2833.3	2837.0	2822.3	2822.3	2811.2	2807.5	2826.0
10°	2807.5	2822.3	2814.9	2814.9	2814.9	2807.5	2800.2	2796.5	2785.4	2781.7	2792.8
12.5°	2778.1	2789.1	2785.4	2778.1	2778.1	2778.1	2763.3	2759.6	2744.9	2737.5	2748.6
15°	2741.2	2748.6	2744.9	2741.2	2733.8	2733.8	2719.1	2711.7	2697.0	2682.3	2689.6
17.5°	2685.9	2697.0	2689.6	2685.9	2674.9	2674.9	2660.2	2652.8	2630.7	2615.9	2619.6
20°	2627.0	2630.7	2627.0	2619.6	2608.6	2604.9	2590.2	2575.4	2557.0	2538.6	2534.9
22.5°	2557.0	2560.7	2549.6	2542.3	2531.2	2527.5	2509.1	2498.0	2468.6	2446.5	2442.8
25°	2464.9	2468.6	2468.6	2450.1	2442.8	2435.4	2417.0	2398.6	2372.8	2343.3	2332.2
27.5°	2354.3	2365.4	2358.0	2339.6	2324.9	2321.2	2302.8	2288.0	2254.9	2229.1	2214.3
30°	2236.4	2232.8	2229.1	2218.0	2195.9	2192.2	2173.8	2155.4	2129.6	2096.4	2078.0
32.5°	2085.4	2085.4	2081.7	2070.6	2048.5	2041.2	2026.4	2004.3	1974.9	1949.1	1930.6
35°	1919.6	1923.3	1919.6	1897.5	1882.7	1875.4	1868.0	1842.2	1816.4	1786.9	1772.2
37.5°	1746.4	1735.4	1739.0	1720.6	1702.2	1709.6	1687.5	1676.4	1646.9	1624.8	1610.1
40°	1558.5	1565.9	1551.1	1543.8	1532.7	1521.7	1521.7	1503.2	1488.5	1462.7	1455.3
42.5°	1374.3	1385.3	1381.7	1374.3	1359.6	1363.2	1344.8	1337.4	1319.0	1308.0	1296.9
45°	1226.9	1226.9	1226.9	1219.5	1215.9	1208.5	1197.4	1186.4	1175.3	1160.6	1153.2
47.5°	1083.2	1083.2	1086.9	1079.5	1072.2	1068.5	1061.1	1061.1	1042.7	1028.0	1020.6
50°	965.3	965.3	965.3	958.0	950.6	950.6	943.2	935.8	924.8	913.7	906.4
52.5°	858.5	858.5	858.5	851.1	847.4	843.7	840.0	836.4	821.6	814.3	806.9
55°	770.0	766.4	766.4	762.7	755.3	755.3	751.6	744.3	733.2	722.1	718.5
57.5°	681.6	685.3	681.6	681.6	674.2	674.2	666.9	663.2	652.1	644.8	637.4
60°	611.6	611.6	611.6	607.9	600.6	604.2	596.9	593.2	582.1	571.1	563.7
62.5°	541.6	545.3	545.3	541.6	534.2	534.2	530.6	526.9	515.8	504.8	493.7
65°	482.7	482.7	482.7	479.0	475.3	475.3	471.6	467.9	456.9	442.1	431.1
67.5°	427.4	423.7	423.7	423.7	420.0	416.3	412.7	409.0	397.9	386.9	372.1
70°	372.1	372.1	372.1	368.4	361.1	364.8	361.1	357.4	346.3	335.3	324.2
72.5°	320.5	320.5	316.9	313.2	313.2	309.5	309.5	305.8	294.8	280.0	269.0
75°	265.3	265.3	265.3	265.3	257.9	261.6	254.2	250.5	243.2	232.1	221.1
77.5°	217.4	217.4	217.4	213.7	210.0	210.0	206.3	202.6	191.6	184.2	169.5
80°	169.5	169.5	169.5	169.5	165.8	162.1	158.4	154.7	147.4	136.3	125.3
82.5°	125.3	125.3	121.6	121.6	121.6	117.9	114.2	110.5	103.2	95.8	88.4
85°	70.0	73.7	73.7	66.3	70.0	66.3	66.3	59.0	59.0	51.6	47.9
87.5°	25.8	22.1	22.1	22.1	22.1	22.1	22.1	18.4	18.4	18.4	14.7
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°	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0
2.5°	2837.0	2833.3	2848.1	2848.1	2826.0	2837.0	2840.7	2833.3	2833.3	2837.0	2826.0
5°	2829.6	2822.3	2837.0	2840.7	2818.6	2829.6	2833.3	2826.0	2829.6	2833.3	2818.6
7.5°	2803.8	2803.8	2814.9	2818.6	2796.5	2807.5	2807.5	2800.2	2803.8	2803.8	2792.8
10°	2778.1	2767.0	2778.1	2778.1	2759.6	2763.3	2770.7	2767.0	2781.7	2800.2	2800.2
12.5°	2730.2	2719.1	2737.5	2737.5	2726.5	2741.2	2759.6	2770.7	2785.4	2792.8	2770.7
15°	2671.2	2674.9	2708.1	2733.8	2722.8	2744.9	2763.3	2756.0	2737.5	2715.4	2682.3
17.5°	2593.8	2582.8	2612.3	2627.0	2612.3	2619.6	2634.4	2619.6	2590.2	2571.7	2527.5
20°	2505.4	2475.9	2475.9	2468.6	2442.8	2442.8	2439.1	2413.3	2402.2	2391.2	2372.8
22.5°	2405.9	2372.8	2361.7	2339.6	2317.5	2313.8	2302.8	2277.0	2262.2	2254.9	2232.8
25°	2291.7	2262.2	2243.8	2221.7	2188.5	2181.2	2170.1	2144.3	2137.0	2125.9	2107.5
27.5°	2173.8	2137.0	2111.2	2089.1	2059.6	2055.9	2033.8	2015.4	2000.6	1993.3	1978.5
30°	2037.5	1997.0	1978.5	1949.1	1927.0	1919.6	1901.2	1875.4	1864.3	1857.0	1845.9
32.5°	1886.4	1853.3	1834.8	1809.1	1779.6	1783.3	1761.2	1739.0	1731.7	1724.3	1713.3
35°	1739.0	1705.9	1683.8	1661.7	1643.3	1635.9	1621.1	1602.7	1591.7	1588.0	1580.6
37.5°	1576.9	1551.1	1532.7	1510.6	1495.9	1488.5	1481.1	1462.7	1455.3	1455.3	1440.6
40°	1418.5	1396.4	1381.7	1370.6	1352.2	1348.5	1341.1	1330.1	1326.4	1322.7	1311.7
42.5°	1274.8	1245.3	1234.3	1226.9	1215.9	1208.5	1204.8	1197.4	1193.8	1190.1	1179.0
45°	1138.5	1112.7	1101.6	1094.3	1083.2	1079.5	1075.9	1064.8	1057.4	1050.1	1046.4
47.5°	1005.8	987.4	983.7	965.3	958.0	950.6	943.2	935.8	932.2	928.5	913.7
50°	891.6	880.6	862.2	851.1	843.7	840.0	825.3	814.3	810.6	806.9	795.8
52.5°	788.5	773.7	762.7	744.3	740.6	733.2	725.8	711.1	703.7	700.0	689.0
55°	696.4	685.3	670.6	655.8	644.8	641.1	630.0	615.3	607.9	600.6	593.2
57.5°	619.0	600.6	585.8	571.1	563.7	552.7	541.6	534.2	523.2	512.1	501.1
60°	545.3	530.6	512.1	497.4	490.0	482.7	467.9	456.9	445.8	434.8	423.7
62.5°	475.3	460.6	442.1	427.4	420.0	412.7	397.9	386.9	375.8	364.8	350.0
65°	412.7	397.9	383.2	368.4	361.1	353.7	339.0	324.2	313.2	302.1	287.4
67.5°	361.1	342.7	327.9	313.2	305.8	298.4	283.7	272.6	257.9	246.9	232.1
70°	305.8	291.1	280.0	265.3	257.9	250.5	235.8	221.1	210.0	199.0	184.2
72.5°	257.9	239.5	228.4	213.7	206.3	202.6	187.9	176.9	165.8	151.1	140.0
75°	206.3	191.6	176.9	165.8	158.4	154.7	140.0	129.0	117.9	106.8	95.8
77.5°	158.4	147.4	132.6	121.6	114.2	110.5	95.8	84.7	73.7	66.3	55.3
80°	117.9	103.2	95.8	84.7	81.1	73.7	66.3	55.3	47.9	36.8	29.5
82.5°	81.1	70.0	62.6	55.3	51.6	47.9	40.5	33.2	25.8	22.1	18.4
85°	44.2	36.8	33.2	29.5	25.8	25.8	22.1	18.4	14.7	11.1	7.4
87.5°	14.7	11.1	11.1	11.1	11.1	7.4	7.4	7.4	3.7	3.7	3.7
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°	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0
2.5°	2833.3	2833.3	2833.3	2829.6	2829.6	2829.6	2826.0	2840.7	2826.0	2822.3	2833.3
5°	2829.6	2822.3	2822.3	2822.3	2822.3	2818.6	2814.9	2822.3	2811.2	2807.5	2807.5
7.5°	2807.5	2803.8	2803.8	2800.2	2796.5	2792.8	2789.1	2792.8	2781.7	2778.1	2778.1
10°	2811.2	2803.8	2803.8	2792.8	2785.4	2774.4	2763.3	2767.0	2752.3	2741.2	2741.2
12.5°	2767.0	2748.6	2737.5	2726.5	2719.1	2715.4	2700.7	2708.1	2693.3	2689.6	2689.6
15°	2667.5	2645.4	2627.0	2619.6	2619.6	2612.3	2601.2	2615.9	2608.6	2612.3	2630.7
17.5°	2512.8	2501.7	2490.7	2487.0	2490.7	2498.0	2505.4	2527.5	2527.5	2538.6	2557.0
20°	2376.5	2369.1	2376.5	2376.5	2380.1	2394.9	2409.6	2428.0	2435.4	2446.5	2472.2
22.5°	2243.8	2243.8	2251.2	2262.2	2258.6	2284.3	2288.0	2321.2	2321.2	2343.3	2365.4
25°	2114.9	2114.9	2122.2	2125.9	2133.3	2148.0	2162.8	2188.5	2195.9	2218.0	2236.4
27.5°	1989.6	1985.9	1985.9	1989.6	1997.0	2015.4	2022.7	2052.2	2063.3	2078.0	2096.4
30°	1849.6	1845.9	1853.3	1860.6	1857.0	1875.4	1886.4	1908.5	1915.9	1930.6	1945.4
32.5°	1716.9	1716.9	1716.9	1724.3	1724.3	1739.0	1739.0	1764.8	1764.8	1775.9	1790.6
35°	1580.6	1580.6	1584.3	1588.0	1591.7	1595.4	1599.0	1613.8	1617.5	1621.1	1628.5
37.5°	1451.7	1448.0	1451.7	1451.7	1444.3	1459.0	1459.0	1473.8	1462.7	1473.8	1477.5
40°	1319.0	1319.0	1315.3	1315.3	1315.3	1322.7	1315.3	1326.4	1319.0	1326.4	1322.7
42.5°	1182.7	1182.7	1175.3	1182.7	1179.0	1179.0	1179.0	1186.4	1175.3	1182.7	1186.4
45°	1046.4	1042.7	1042.7	1039.0	1039.0	1039.0	1042.7	1042.7	1039.0	1046.4	1046.4
47.5°	913.7	910.1	910.1	910.1	910.1	913.7	902.7	910.1	902.7	902.7	902.7
50°	799.5	795.8	792.2	788.5	784.8	784.8	781.1	781.1	773.7	770.0	766.4
52.5°	689.0	685.3	677.9	677.9	674.2	670.6	659.5	659.5	648.5	644.8	644.8
55°	589.5	578.5	574.8	567.4	567.4	560.0	552.7	545.3	534.2	526.9	526.9
57.5°	497.4	486.3	479.0	475.3	471.6	464.2	449.5	445.8	431.1	427.4	423.7
60°	416.3	405.3	394.2	386.9	383.2	372.1	357.4	350.0	342.7	331.6	320.5
62.5°	339.0	327.9	313.2	309.5	302.1	291.1	280.0	269.0	261.6	250.5	243.2
65°	272.6	261.6	250.5	243.2	235.8	224.7	213.7	202.6	195.3	191.6	187.9
67.5°	221.1	206.3	195.3	191.6	184.2	176.9	165.8	162.1	154.7	154.7	154.7
70°	173.2	162.1	151.1	147.4	143.7	136.3	129.0	129.0	129.0	129.0	129.0
72.5°	129.0	121.6	110.5	106.8	103.2	99.5	92.1	95.8	92.1	92.1	92.1
75°	81.1	73.7	66.3	62.6	59.0	55.3	51.6	47.9	44.2	40.5	40.5
77.5°	44.2	36.8	33.2	29.5	29.5	25.8	22.1	22.1	18.4	18.4	18.4
80°	25.8	22.1	18.4	14.7	14.7	11.1	11.1	11.1	11.1	7.4	7.4
82.5°	14.7	11.1	7.4	7.4	7.4	7.4	3.7	3.7	3.7	3.7	3.7
85°	7.4	7.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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: P252404

CATALOG NUMBER: LD6B50D010TE EU6B30508040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0
2.5°	2814.9	2826.0	2814.9	2826.0	2826.0	2826.0	2826.0	2814.9
5°	2796.5	2803.8	2792.8	2800.2	2803.8	2800.2	2800.2	2789.1
7.5°	2763.3	2770.7	2759.6	2770.7	2774.4	2770.7	2767.0	2759.6
10°	2730.2	2733.8	2722.8	2730.2	2737.5	2737.5	2733.8	2722.8
12.5°	2678.6	2689.6	2678.6	2685.9	2693.3	2697.0	2697.0	2685.9
15°	2619.6	2638.0	2630.7	2641.7	2652.8	2656.5	2656.5	2652.8
17.5°	2560.7	2579.1	2568.0	2586.5	2597.5	2604.9	2608.6	2601.2
20°	2475.9	2498.0	2490.7	2505.4	2520.1	2531.2	2531.2	2520.1
22.5°	2365.4	2394.9	2391.2	2402.2	2420.7	2424.4	2431.7	2424.4
25°	2243.8	2265.9	2262.2	2273.3	2295.4	2295.4	2299.1	2299.1
27.5°	2103.8	2125.9	2122.2	2129.6	2144.3	2148.0	2151.7	2144.3
30°	1952.7	1963.8	1963.8	1974.9	1985.9	1989.6	1989.6	1978.5
32.5°	1786.9	1801.7	1809.1	1805.4	1816.4	1823.8	1820.1	1820.1
35°	1635.9	1639.6	1643.3	1646.9	1650.6	1658.0	1650.6	1646.9
37.5°	1473.8	1484.8	1477.5	1484.8	1492.2	1488.5	1484.8	1484.8
40°	1326.4	1330.1	1322.7	1330.1	1333.8	1333.8	1333.8	1326.4
42.5°	1179.0	1186.4	1179.0	1186.4	1186.4	1186.4	1186.4	1182.7
45°	1031.6	1039.0	1039.0	1042.7	1042.7	1039.0	1039.0	1039.0
47.5°	895.3	902.7	895.3	902.7	906.4	899.0	899.0	899.0
50°	766.4	762.7	762.7	766.4	766.4	766.4	766.4	762.7
52.5°	633.7	637.4	637.4	637.4	641.1	637.4	641.1	641.1
55°	519.5	519.5	519.5	523.2	519.5	519.5	523.2	526.9
57.5°	416.3	412.7	409.0	409.0	412.7	409.0	409.0	409.0
60°	320.5	316.9	313.2	313.2	313.2	313.2	313.2	309.5
62.5°	239.5	239.5	239.5	243.2	243.2	243.2	243.2	246.9
65°	191.6	191.6	191.6	191.6	191.6	191.6	191.6	195.3
67.5°	154.7	154.7	154.7	158.4	158.4	158.4	158.4	158.4
70°	129.0	129.0	132.6	129.0	132.6	132.6	132.6	132.6
72.5°	88.4	88.4	88.4	88.4	88.4	84.7	88.4	84.7
75°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	33.2
77.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
80°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	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)