

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: P252746

Luminaire Tested: **LD6B70D010TE EU6B60709030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252746
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: LD6B70D010TE EU6B60709030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5651.0 lumens
Efficiency: N/A
Efficacy: 71.1 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

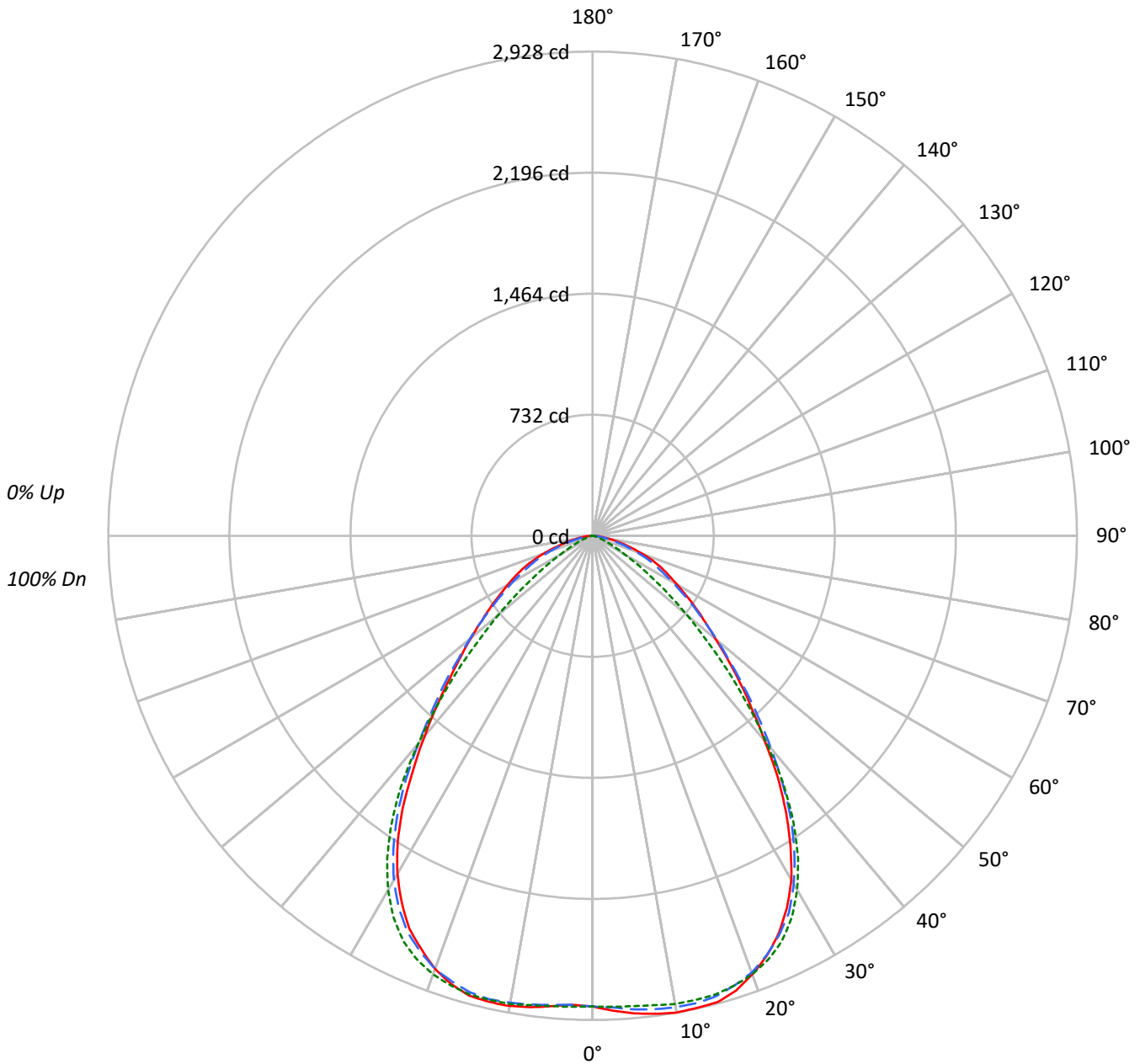
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
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	109	105	102	99	101	98	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78								
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68								
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61								
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44								
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	185747	185747	185747
5°	189881	186980	186980
10°	193945	190480	191282
15°	197196	193934	194474
20°	195987	195987	193474
25°	191322	194799	188716
30°	181109	186269	177772
35°	162291	168702	159081
40°	137875	139586	134442
45°	116668	106639	112581
50°	98502	75209	97274
55°	86570	48557	85660
60°	76710	28902	77245
65°	70872	17413	70872
70°	61460	9995	59915
75°	48725	6100	45675
80°	36293	4546	34790
85°	33161	2994	30167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	4.9
10°-20°	811.2	14.4
20°-30°	1220.1	21.6
30°-40°	1282.8	22.7
40°-50°	958.3	17.0
50°-60°	596.6	10.6
60°-70°	339.3	6.0
70°-80°	139.7	2.5
80°-90°	28.9	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°	2305.4	40.8
0°-40°	3588.2	63.5
0°-60°	5143.1	91.0
0°-90°	5651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5651.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2847	2847	2847	2847	2847	
5°	2899	2875	2855	2847	2855	277
15°	2920	2883	2871	2859	2879	821
25°	2658	2666	2706	2646	2622	1217
35°	2038	2090	2118	2058	1997	1264
45°	1264	1293	1156	1268	1220	980
55°	761	745	427	733	753	685
65°	459	411	113	411	459	452
75°	193	153	24	149	181	210
85°	44	28	4	24	40	49
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°	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1
2.5°	2875.3	2871.3	2875.3	2867.2	2863.2	2863.2	2867.2	2859.2	2855.1	2859.2	2855.1
5°	2899.4	2891.4	2895.4	2891.4	2883.3	2883.3	2887.4	2875.3	2875.3	2879.3	2875.3
7.5°	2915.6	2915.6	2915.6	2907.5	2903.5	2899.4	2907.5	2895.4	2891.4	2891.4	2887.4
10°	2927.6	2923.6	2927.6	2919.6	2911.5	2907.5	2915.6	2907.5	2899.4	2907.5	2895.4
12.5°	2923.6	2923.6	2923.6	2919.6	2911.5	2907.5	2915.6	2903.5	2899.4	2903.5	2895.4
15°	2919.6	2907.5	2911.5	2907.5	2895.4	2895.4	2899.4	2887.4	2879.3	2891.4	2883.3
17.5°	2883.3	2875.3	2879.3	2871.3	2863.2	2859.2	2863.2	2859.2	2851.1	2859.2	2851.1
20°	2822.9	2822.9	2827.0	2818.9	2810.9	2806.8	2814.9	2806.8	2798.8	2810.9	2810.9
22.5°	2750.4	2750.4	2750.4	2746.4	2742.4	2742.4	2742.4	2738.4	2734.3	2742.4	2746.4
25°	2657.8	2653.8	2657.8	2661.9	2657.8	2653.8	2657.8	2657.8	2649.8	2665.9	2665.9
27.5°	2541.0	2541.0	2549.1	2545.1	2545.1	2541.0	2549.1	2549.1	2545.1	2557.2	2569.2
30°	2404.1	2396.1	2404.1	2404.1	2408.2	2408.2	2412.2	2412.2	2412.2	2424.3	2432.3
32.5°	2226.9	2231.0	2243.0	2239.0	2235.0	2247.1	2247.1	2255.1	2259.2	2267.2	2271.2
35°	2037.7	2041.7	2041.7	2045.7	2053.8	2045.7	2065.9	2061.8	2065.9	2082.0	2090.0
37.5°	1836.3	1824.2	1844.4	1836.3	1840.3	1840.3	1848.4	1852.4	1864.5	1884.6	1884.6
40°	1618.9	1622.9	1630.9	1635.0	1639.0	1639.0	1639.0	1651.1	1655.1	1679.3	1675.2
42.5°	1429.6	1429.6	1437.6	1441.7	1441.7	1441.7	1441.7	1453.7	1461.8	1469.9	1477.9
45°	1264.5	1252.4	1260.5	1260.5	1268.5	1264.5	1272.5	1280.6	1284.6	1296.7	1292.7
47.5°	1107.4	1103.4	1107.4	1111.5	1107.4	1111.5	1115.5	1119.5	1123.5	1123.5	1123.5
50°	970.5	970.5	974.5	978.6	978.6	978.6	978.6	982.6	982.6	990.6	982.6
52.5°	857.8	861.8	861.8	857.8	861.8	861.8	865.8	865.8	861.8	861.8	849.7
55°	761.1	757.1	761.1	757.1	761.1	761.1	757.1	757.1	753.1	749.0	745.0
57.5°	668.5	668.5	668.5	668.5	664.5	668.5	664.5	660.4	660.4	652.4	640.3
60°	587.9	587.9	587.9	587.9	587.9	583.9	587.9	583.9	575.9	567.8	551.7
62.5°	519.5	515.5	519.5	515.5	515.5	511.4	511.4	507.4	499.3	491.3	475.2
65°	459.1	463.1	459.1	459.1	455.1	451.0	451.0	447.0	434.9	426.9	410.8
67.5°	394.6	390.6	390.6	390.6	386.6	386.6	386.6	378.5	370.5	358.4	342.3
70°	322.2	322.2	322.2	318.1	318.1	314.1	314.1	310.1	302.0	294.0	273.8
72.5°	253.7	253.7	253.7	245.6	249.7	245.6	245.6	237.6	233.6	221.5	209.4
75°	193.3	193.3	189.3	189.3	185.2	181.2	181.2	177.2	173.2	165.1	153.0
77.5°	140.9	140.9	140.9	136.9	132.9	128.9	128.9	124.8	120.8	116.8	108.7
80°	96.6	96.6	96.6	96.6	92.6	88.6	88.6	84.6	84.6	80.5	72.5
82.5°	64.4	64.4	64.4	64.4	60.4	60.4	60.4	56.4	52.4	52.4	44.3
85°	44.3	44.3	40.3	40.3	40.3	40.3	36.2	36.2	32.2	28.2	28.2
87.5°	24.2	24.2	24.2	24.2	20.1	20.1	20.1	20.1	16.1	16.1	12.1
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°	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1
2.5°	2867.2	2867.2	2863.2	2851.1	2855.1	2851.1	2855.1	2851.1	2839.0	2851.1	2839.0
5°	2883.3	2887.4	2879.3	2863.2	2867.2	2863.2	2863.2	2859.2	2847.1	2855.1	2847.1
7.5°	2899.4	2895.4	2891.4	2875.3	2879.3	2875.3	2875.3	2867.2	2855.1	2863.2	2851.1
10°	2907.5	2907.5	2899.4	2883.3	2883.3	2879.3	2883.3	2879.3	2863.2	2875.3	2867.2
12.5°	2907.5	2903.5	2903.5	2883.3	2887.4	2883.3	2887.4	2879.3	2867.2	2875.3	2871.3
15°	2895.4	2895.4	2891.4	2871.3	2875.3	2875.3	2879.3	2871.3	2859.2	2871.3	2863.2
17.5°	2871.3	2871.3	2867.2	2851.1	2859.2	2859.2	2863.2	2855.1	2843.1	2851.1	2851.1
20°	2822.9	2827.0	2827.0	2814.9	2822.9	2822.9	2827.0	2822.9	2818.9	2822.9	2814.9
22.5°	2766.6	2774.6	2774.6	2762.5	2770.6	2770.6	2782.7	2778.6	2770.6	2774.6	2770.6
25°	2682.0	2690.0	2698.1	2690.0	2698.1	2698.1	2710.2	2706.1	2698.1	2706.1	2694.1
27.5°	2585.3	2589.4	2597.4	2589.4	2601.4	2597.4	2609.5	2605.5	2593.4	2605.5	2601.4
30°	2448.4	2464.5	2476.6	2464.5	2476.6	2476.6	2484.7	2480.6	2476.6	2472.6	2472.6
32.5°	2295.4	2311.5	2311.5	2307.5	2315.5	2315.5	2319.6	2311.5	2307.5	2311.5	2315.5
35°	2106.1	2114.2	2122.2	2118.2	2122.2	2126.3	2122.2	2126.3	2114.2	2118.2	2118.2
37.5°	1900.7	1908.8	1908.8	1896.7	1904.8	1904.8	1896.7	1896.7	1888.7	1896.7	1880.6
40°	1683.3	1675.2	1679.3	1671.2	1663.2	1663.2	1659.1	1643.0	1635.0	1639.0	1643.0
42.5°	1469.9	1469.9	1457.8	1437.6	1417.5	1417.5	1405.4	1397.4	1381.3	1389.3	1385.3
45°	1288.6	1268.5	1252.4	1220.2	1208.1	1200.0	1179.9	1159.8	1151.7	1155.8	1151.7
47.5°	1115.5	1099.4	1059.1	1014.8	1002.7	990.6	966.5	942.3	934.3	926.2	926.2
50°	970.5	942.3	898.0	849.7	829.6	809.4	777.2	753.1	736.9	741.0	741.0
52.5°	837.6	805.4	753.1	692.6	668.5	644.3	616.1	587.9	575.9	571.8	571.8
55°	720.8	684.6	632.2	563.8	543.6	515.5	479.2	447.0	430.9	426.9	434.9
57.5°	616.1	583.9	523.5	455.1	430.9	402.7	366.5	338.3	318.1	314.1	318.1
60°	531.6	487.3	434.9	370.5	338.3	314.1	273.8	249.7	229.5	221.5	225.5
62.5°	447.0	406.7	354.4	289.9	265.8	241.6	205.4	177.2	161.1	157.1	161.1
65°	382.6	342.3	294.0	237.6	213.4	189.3	157.1	128.9	116.8	112.8	116.8
67.5°	318.1	281.9	241.6	189.3	169.1	149.0	116.8	96.6	80.5	76.5	80.5
70°	257.7	225.5	185.2	149.0	128.9	112.8	88.6	68.5	56.4	52.4	56.4
72.5°	193.3	169.1	140.9	108.7	96.6	84.6	64.4	48.3	40.3	36.2	40.3
75°	140.9	120.8	100.7	76.5	68.5	60.4	44.3	32.2	28.2	24.2	28.2
77.5°	96.6	84.6	68.5	52.4	44.3	40.3	28.2	24.2	20.1	16.1	16.1
80°	64.4	56.4	44.3	36.2	32.2	28.2	20.1	16.1	12.1	12.1	12.1
82.5°	40.3	32.2	28.2	20.1	16.1	16.1	12.1	8.1	8.1	8.1	8.1
85°	24.2	20.1	16.1	12.1	8.1	8.1	4.0	4.0	4.0	4.0	4.0
87.5°	12.1	8.1	8.1	4.0	4.0	4.0	4.0	4.0	0.0	0.0	4.0
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°	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1
2.5°	2847.1	2839.0	2839.0	2843.1	2847.1	2851.1	2843.1	2839.0	2839.0	2851.1	2843.1
5°	2847.1	2843.1	2843.1	2843.1	2851.1	2855.1	2847.1	2843.1	2847.1	2859.2	2855.1
7.5°	2859.2	2851.1	2855.1	2855.1	2859.2	2867.2	2859.2	2855.1	2859.2	2871.3	2863.2
10°	2867.2	2859.2	2863.2	2859.2	2871.3	2875.3	2867.2	2863.2	2867.2	2883.3	2879.3
12.5°	2871.3	2867.2	2867.2	2863.2	2875.3	2879.3	2871.3	2867.2	2871.3	2883.3	2879.3
15°	2863.2	2859.2	2859.2	2859.2	2867.2	2875.3	2863.2	2859.2	2859.2	2871.3	2867.2
17.5°	2847.1	2839.0	2839.0	2839.0	2843.1	2847.1	2835.0	2831.0	2827.0	2839.0	2835.0
20°	2818.9	2810.9	2802.8	2802.8	2806.8	2806.8	2798.8	2786.7	2786.7	2790.7	2782.7
22.5°	2766.6	2762.5	2754.5	2750.4	2758.5	2754.5	2738.4	2726.3	2722.3	2726.3	2718.2
25°	2694.1	2686.0	2682.0	2678.0	2682.0	2678.0	2661.9	2645.7	2645.7	2645.7	2633.7
27.5°	2593.4	2585.3	2581.3	2581.3	2585.3	2577.3	2561.2	2545.1	2537.0	2537.0	2524.9
30°	2464.5	2464.5	2460.5	2456.5	2452.4	2452.4	2428.3	2412.2	2404.1	2408.2	2400.1
32.5°	2307.5	2303.4	2299.4	2287.3	2291.4	2287.3	2267.2	2255.1	2243.0	2235.0	2231.0
35°	2106.1	2106.1	2102.1	2102.1	2102.1	2098.1	2077.9	2065.9	2057.8	2053.8	2041.7
37.5°	1884.6	1880.6	1876.6	1876.6	1876.6	1876.6	1864.5	1852.4	1852.4	1848.4	1840.3
40°	1635.0	1639.0	1643.0	1639.0	1651.1	1663.2	1647.0	1639.0	1635.0	1647.0	1630.9
42.5°	1393.3	1389.3	1409.5	1413.5	1413.5	1433.6	1437.6	1441.7	1437.6	1445.7	1445.7
45°	1159.8	1155.8	1175.9	1183.9	1204.1	1228.2	1240.3	1260.5	1268.5	1276.6	1268.5
47.5°	938.3	954.4	970.5	990.6	1006.8	1047.0	1071.2	1091.3	1099.4	1111.5	1111.5
50°	753.1	769.2	797.3	813.5	833.6	881.9	922.2	950.4	966.5	978.6	974.5
52.5°	579.9	608.1	644.3	660.4	688.6	745.0	789.3	821.5	841.6	853.7	857.8
55°	447.0	471.2	507.4	531.6	559.8	620.2	676.5	712.8	732.9	749.0	757.1
57.5°	330.2	358.4	398.7	418.8	451.0	519.5	567.8	612.1	636.3	656.4	660.4
60°	241.6	269.8	306.1	330.2	362.4	430.9	487.3	527.5	555.7	571.8	579.9
62.5°	173.2	201.4	237.6	261.8	289.9	350.3	406.7	447.0	475.2	495.3	507.4
65°	124.8	153.0	189.3	209.4	233.6	289.9	342.3	382.6	410.8	434.9	443.0
67.5°	92.6	112.8	145.0	165.1	189.3	233.6	277.9	314.1	342.3	362.4	370.5
70°	68.5	84.6	112.8	124.8	140.9	181.2	217.5	249.7	273.8	289.9	298.0
72.5°	48.3	60.4	80.5	92.6	104.7	136.9	165.1	189.3	205.4	221.5	229.5
75°	32.2	40.3	56.4	64.4	72.5	96.6	116.8	136.9	149.0	161.1	165.1
77.5°	20.1	28.2	40.3	44.3	52.4	64.4	80.5	92.6	100.7	108.7	116.8
80°	12.1	16.1	24.2	28.2	32.2	44.3	52.4	60.4	68.5	76.5	80.5
82.5°	8.1	12.1	16.1	16.1	20.1	24.2	32.2	40.3	44.3	48.3	52.4
85°	4.0	4.0	8.1	8.1	12.1	12.1	16.1	20.1	24.2	28.2	32.2
87.5°	4.0	4.0	4.0	4.0	8.1	8.1	12.1	12.1	12.1	16.1	16.1
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: P252746

CATALOG NUMBER: LD6B70D010TE EU6B60709030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1
2.5°	2835.0	2847.1	2835.0	2843.1	2839.0	2839.0	2835.0	2839.0
5°	2847.1	2863.2	2847.1	2859.2	2851.1	2851.1	2851.1	2855.1
7.5°	2859.2	2875.3	2863.2	2875.3	2871.3	2867.2	2867.2	2875.3
10°	2871.3	2883.3	2875.3	2887.4	2883.3	2879.3	2879.3	2887.4
12.5°	2871.3	2887.4	2879.3	2891.4	2887.4	2883.3	2883.3	2887.4
15°	2859.2	2879.3	2867.2	2879.3	2875.3	2871.3	2871.3	2879.3
17.5°	2822.9	2839.0	2831.0	2839.0	2839.0	2835.0	2839.0	2843.1
20°	2774.6	2786.7	2778.6	2786.7	2786.7	2778.6	2782.7	2786.7
22.5°	2706.1	2718.2	2710.2	2718.2	2714.2	2710.2	2710.2	2706.1
25°	2621.6	2637.7	2625.6	2633.7	2625.6	2617.6	2617.6	2621.6
27.5°	2516.9	2529.0	2512.9	2520.9	2512.9	2504.8	2504.8	2500.8
30°	2380.0	2384.0	2371.9	2380.0	2371.9	2367.9	2359.8	2359.8
32.5°	2214.9	2218.9	2206.8	2206.8	2198.7	2198.7	2182.6	2194.7
35°	2021.6	2025.6	2021.6	2017.5	2005.4	2001.4	1997.4	1997.4
37.5°	1820.2	1820.2	1808.1	1804.1	1796.0	1788.0	1792.0	1779.9
40°	1614.8	1610.8	1598.7	1602.7	1598.7	1586.6	1582.6	1578.6
42.5°	1421.5	1421.5	1409.5	1413.5	1405.4	1401.4	1389.3	1393.3
45°	1252.4	1252.4	1240.3	1240.3	1236.3	1224.2	1228.2	1220.2
47.5°	1099.4	1099.4	1095.3	1095.3	1083.3	1079.2	1079.2	1079.2
50°	966.5	966.5	966.5	966.5	962.5	958.4	954.4	958.4
52.5°	853.7	861.8	857.8	857.8	853.7	849.7	845.7	845.7
55°	753.1	757.1	757.1	761.1	757.1	753.1	757.1	753.1
57.5°	664.5	672.5	672.5	672.5	672.5	672.5	668.5	664.5
60°	587.9	592.0	592.0	596.0	596.0	596.0	592.0	592.0
62.5°	511.4	519.5	523.5	523.5	527.5	523.5	523.5	523.5
65°	451.0	459.1	463.1	459.1	463.1	463.1	459.1	459.1
67.5°	378.5	386.6	386.6	386.6	386.6	390.6	386.6	386.6
70°	306.1	314.1	310.1	314.1	314.1	314.1	314.1	314.1
72.5°	233.6	237.6	241.6	241.6	245.6	241.6	241.6	241.6
75°	169.1	177.2	177.2	177.2	177.2	181.2	181.2	181.2
77.5°	120.8	124.8	124.8	128.9	128.9	128.9	128.9	132.9
80°	84.6	84.6	88.6	88.6	92.6	92.6	92.6	92.6
82.5°	56.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
85°	32.2	36.2	36.2	36.2	36.2	40.3	40.3	40.3
87.5°	20.1	20.1	20.1	20.1	20.1	20.1	16.1	16.1
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)