

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: P252750

Luminaire Tested: **LD6B70D010TE EU6B60709727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252750
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 EU6B60709727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4726.0 lumens
Efficiency: N/A
Efficacy: 59.5 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

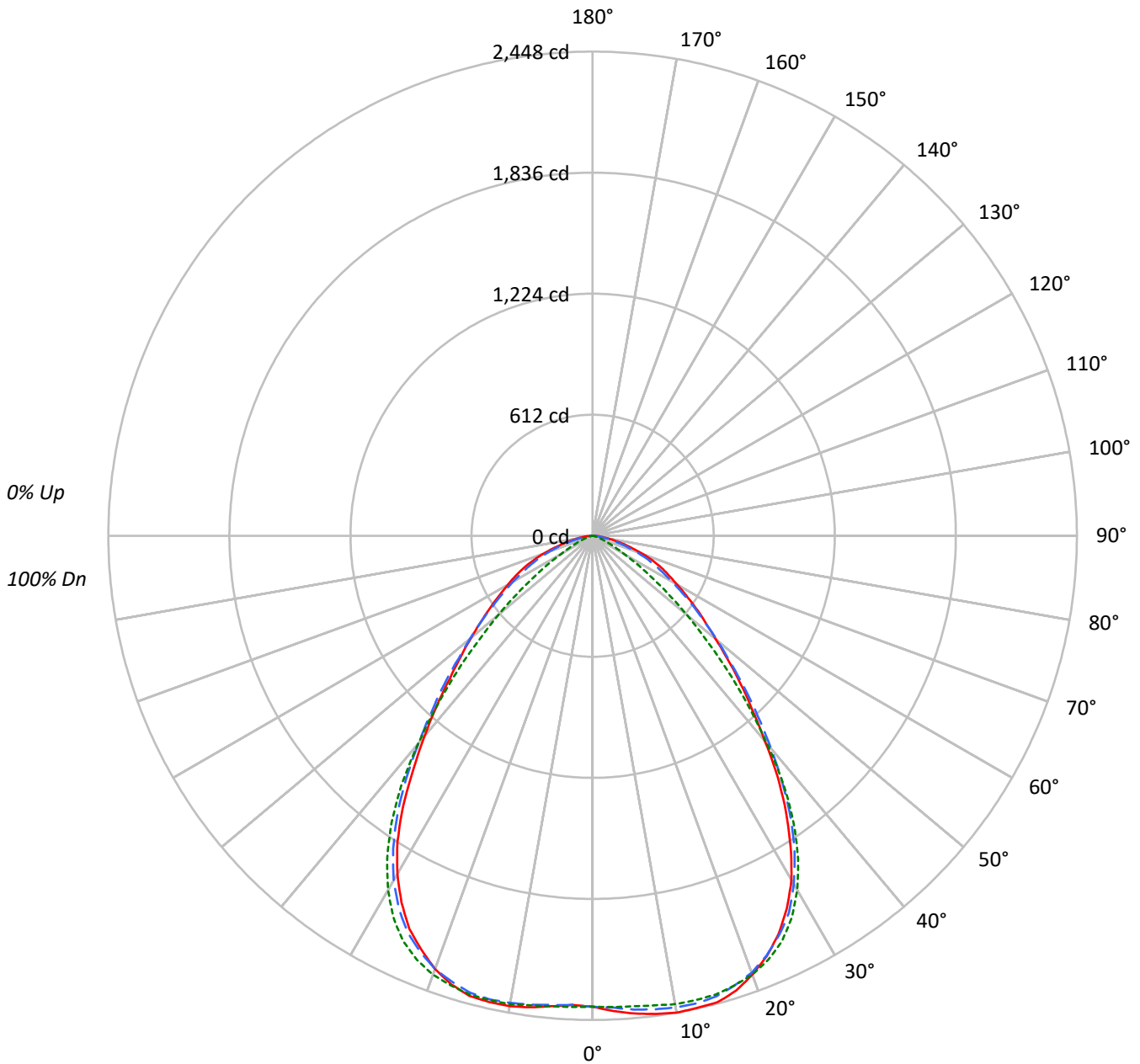
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	155344	155344	155344
5°	158800	156377	156377
10°	162199	159298	159967
15°	164917	162189	162641
20°	163912	163912	161801
25°	160008	162917	157827
30°	151465	155782	148678
35°	135722	141090	133038
40°	115306	116736	112436
45°	97569	89183	94156
50°	82374	62897	81349
55°	72398	40606	71636
60°	64158	24165	64601
65°	59264	14557	59264
70°	51388	8355	50110
75°	40760	5092	38214
80°	30357	3795	29117
85°	27696	2545	25226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	4.9
10°-20°	678.5	14.4
20°-30°	1020.4	21.6
30°-40°	1072.8	22.7
40°-50°	801.4	17.0
50°-60°	498.9	10.6
60°-70°	283.7	6.0
70°-80°	116.9	2.5
80°-90°	24.2	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°	1928.1	40.8
0°-40°	3000.9	63.5
0°-60°	4301.2	91.0
0°-90°	4726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4726.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2381	2381	2381	2381	2381	
5°	2425	2405	2388	2381	2388	232
15°	2442	2411	2401	2391	2408	686
25°	2223	2230	2263	2213	2192	1017
35°	1704	1748	1772	1721	1670	1057
45°	1058	1081	967	1061	1020	819
55°	636	623	357	613	630	572
65°	384	344	94	344	384	378
75°	162	128	20	125	152	176
85°	37	24	3	20	34	41
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°	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1
2.5°	2404.6	2401.3	2404.6	2397.9	2394.5	2394.5	2397.9	2391.2	2387.8	2391.2	2387.8
5°	2424.8	2418.1	2421.5	2418.1	2411.4	2411.4	2414.7	2404.6	2404.6	2408.0	2404.6
7.5°	2438.3	2438.3	2438.3	2431.6	2428.2	2424.8	2431.6	2421.5	2418.1	2418.1	2414.7
10°	2448.4	2445.0	2448.4	2441.7	2434.9	2431.6	2438.3	2431.6	2424.8	2431.6	2421.5
12.5°	2445.0	2445.0	2445.0	2441.7	2434.9	2431.6	2438.3	2428.2	2424.8	2428.2	2421.5
15°	2441.7	2431.6	2434.9	2431.6	2421.5	2421.5	2424.8	2414.7	2408.0	2418.1	2411.4
17.5°	2411.4	2404.6	2408.0	2401.3	2394.5	2391.2	2394.5	2391.2	2384.4	2391.2	2384.4
20°	2360.9	2360.9	2364.2	2357.5	2350.7	2347.4	2354.1	2347.4	2340.6	2350.7	2350.7
22.5°	2300.2	2300.2	2300.2	2296.9	2293.5	2293.5	2293.5	2290.1	2286.8	2293.5	2296.9
25°	2222.8	2219.4	2222.8	2226.1	2222.8	2219.4	2222.8	2222.8	2216.0	2229.5	2229.5
27.5°	2125.1	2125.1	2131.8	2128.5	2128.5	2125.1	2131.8	2131.8	2128.5	2138.6	2148.7
30°	2010.6	2003.9	2010.6	2010.6	2014.0	2014.0	2017.3	2017.3	2017.3	2027.4	2034.2
32.5°	1862.4	1865.8	1875.9	1872.5	1869.1	1879.3	1879.3	1886.0	1889.4	1896.1	1899.5
35°	1704.1	1707.5	1707.5	1710.9	1717.6	1710.9	1727.7	1724.3	1727.7	1741.2	1747.9
37.5°	1535.7	1525.6	1542.5	1535.7	1539.1	1539.1	1545.8	1549.2	1559.3	1576.1	1576.1
40°	1353.9	1357.2	1364.0	1367.3	1370.7	1370.7	1370.7	1380.8	1384.2	1404.4	1401.0
42.5°	1195.6	1195.6	1202.3	1205.7	1205.7	1205.7	1205.7	1215.8	1222.5	1229.3	1236.0
45°	1057.5	1047.4	1054.1	1054.1	1060.9	1057.5	1064.2	1071.0	1074.3	1084.4	1081.1
47.5°	926.2	922.8	926.2	929.5	926.2	929.5	932.9	936.3	939.6	939.6	939.6
50°	811.6	811.6	815.0	818.4	818.4	818.4	818.4	821.8	821.8	828.5	821.8
52.5°	717.3	720.7	720.7	717.3	720.7	720.7	724.1	724.1	720.7	720.7	710.6
55°	636.5	633.2	636.5	633.2	636.5	636.5	633.2	633.2	629.8	626.4	623.0
57.5°	559.1	559.1	559.1	559.1	555.7	559.1	555.7	552.3	552.3	545.6	535.5
60°	491.7	491.7	491.7	491.7	491.7	488.3	491.7	488.3	481.6	474.9	461.4
62.5°	434.5	431.1	434.5	431.1	431.1	427.7	427.7	424.3	417.6	410.9	397.4
65°	383.9	387.3	383.9	383.9	380.6	377.2	377.2	373.8	363.7	357.0	343.5
67.5°	330.0	326.7	326.7	326.7	323.3	323.3	323.3	316.6	309.8	299.7	286.3
70°	269.4	269.4	269.4	266.1	266.1	262.7	262.7	259.3	252.6	245.9	229.0
72.5°	212.2	212.2	212.2	205.4	208.8	205.4	205.4	198.7	195.3	185.2	175.1
75°	161.7	161.7	158.3	158.3	154.9	151.6	151.6	148.2	144.8	138.1	128.0
77.5°	117.9	117.9	117.9	114.5	111.1	107.8	107.8	104.4	101.0	97.7	90.9
80°	80.8	80.8	80.8	80.8	77.5	74.1	74.1	70.7	70.7	67.4	60.6
82.5°	53.9	53.9	53.9	53.9	50.5	50.5	50.5	47.1	43.8	43.8	37.0
85°	37.0	37.0	33.7	33.7	33.7	33.7	30.3	30.3	26.9	23.6	23.6
87.5°	20.2	20.2	20.2	20.2	16.8	16.8	16.8	16.8	13.5	13.5	10.1
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°	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1
2.5°	2397.9	2397.9	2394.5	2384.4	2387.8	2384.4	2387.8	2384.4	2374.3	2384.4	2374.3
5°	2411.4	2414.7	2408.0	2394.5	2397.9	2394.5	2394.5	2391.2	2381.1	2387.8	2381.1
7.5°	2424.8	2421.5	2418.1	2404.6	2408.0	2404.6	2404.6	2397.9	2387.8	2394.5	2384.4
10°	2431.6	2431.6	2424.8	2411.4	2411.4	2408.0	2411.4	2408.0	2394.5	2404.6	2397.9
12.5°	2431.6	2428.2	2428.2	2411.4	2414.7	2411.4	2414.7	2408.0	2397.9	2404.6	2401.3
15°	2421.5	2421.5	2418.1	2401.3	2404.6	2404.6	2408.0	2401.3	2391.2	2401.3	2394.5
17.5°	2401.3	2401.3	2397.9	2384.4	2391.2	2391.2	2394.5	2387.8	2377.7	2384.4	2384.4
20°	2360.9	2364.2	2364.2	2354.1	2360.9	2360.9	2364.2	2360.9	2357.5	2360.9	2354.1
22.5°	2313.7	2320.4	2320.4	2310.3	2317.1	2317.1	2327.2	2323.8	2317.1	2320.4	2317.1
25°	2243.0	2249.7	2256.4	2249.7	2256.4	2256.4	2266.6	2263.2	2256.4	2263.2	2253.1
27.5°	2162.2	2165.5	2172.3	2165.5	2175.6	2172.3	2182.4	2179.0	2168.9	2179.0	2175.6
30°	2047.6	2061.1	2071.2	2061.1	2071.2	2071.2	2078.0	2074.6	2071.2	2067.9	2067.9
32.5°	1919.7	1933.1	1933.1	1929.8	1936.5	1936.5	1939.9	1933.1	1929.8	1933.1	1936.5
35°	1761.4	1768.1	1774.8	1771.5	1774.8	1778.2	1774.8	1778.2	1768.1	1771.5	1771.5
37.5°	1589.6	1596.4	1596.4	1586.3	1593.0	1593.0	1586.3	1586.3	1579.5	1586.3	1572.8
40°	1407.8	1401.0	1404.4	1397.7	1390.9	1390.9	1387.5	1374.1	1367.3	1370.7	1374.1
42.5°	1229.3	1229.3	1219.2	1202.3	1185.5	1185.5	1175.4	1168.6	1155.2	1161.9	1158.5
45°	1077.7	1060.9	1047.4	1020.5	1010.4	1003.6	986.8	969.9	963.2	966.6	963.2
47.5°	932.9	919.4	885.7	848.7	838.6	828.5	808.3	788.1	781.3	774.6	774.6
50°	811.6	788.1	751.0	710.6	693.8	676.9	650.0	629.8	616.3	619.7	619.7
52.5°	700.5	673.6	629.8	579.3	559.1	538.9	515.3	491.7	481.6	478.2	478.2
55°	602.8	572.5	528.8	471.5	454.7	431.1	400.8	373.8	360.4	357.0	363.7
57.5°	515.3	488.3	437.8	380.6	360.4	336.8	306.5	282.9	266.1	262.7	266.1
60°	444.6	407.5	363.7	309.8	282.9	262.7	229.0	208.8	192.0	185.2	188.6
62.5°	373.8	340.2	296.4	242.5	222.3	202.1	171.8	148.2	134.7	131.3	134.7
65°	319.9	286.3	245.9	198.7	178.5	158.3	131.3	107.8	97.7	94.3	97.7
67.5°	266.1	235.7	202.1	158.3	141.4	124.6	97.7	80.8	67.4	64.0	67.4
70°	215.5	188.6	154.9	124.6	107.8	94.3	74.1	57.3	47.1	43.8	47.1
72.5°	161.7	141.4	117.9	90.9	80.8	70.7	53.9	40.4	33.7	30.3	33.7
75°	117.9	101.0	84.2	64.0	57.3	50.5	37.0	26.9	23.6	20.2	23.6
77.5°	80.8	70.7	57.3	43.8	37.0	33.7	23.6	20.2	16.8	13.5	13.5
80°	53.9	47.1	37.0	30.3	26.9	23.6	16.8	13.5	10.1	10.1	10.1
82.5°	33.7	26.9	23.6	16.8	13.5	13.5	10.1	6.7	6.7	6.7	6.7
85°	20.2	16.8	13.5	10.1	6.7	6.7	3.4	3.4	3.4	3.4	3.4
87.5°	10.1	6.7	6.7	3.4	3.4	3.4	3.4	3.4	0.0	0.0	3.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1
2.5°	2381.1	2374.3	2374.3	2377.7	2381.1	2384.4	2377.7	2374.3	2374.3	2384.4	2377.7
5°	2381.1	2377.7	2377.7	2377.7	2384.4	2387.8	2381.1	2377.7	2381.1	2391.2	2387.8
7.5°	2391.2	2384.4	2387.8	2387.8	2391.2	2397.9	2391.2	2387.8	2391.2	2401.3	2394.5
10°	2397.9	2391.2	2394.5	2391.2	2401.3	2404.6	2397.9	2394.5	2397.9	2411.4	2408.0
12.5°	2401.3	2397.9	2397.9	2394.5	2404.6	2408.0	2401.3	2397.9	2401.3	2411.4	2408.0
15°	2394.5	2391.2	2391.2	2391.2	2397.9	2404.6	2394.5	2391.2	2391.2	2401.3	2397.9
17.5°	2381.1	2374.3	2374.3	2374.3	2377.7	2381.1	2371.0	2367.6	2364.2	2374.3	2371.0
20°	2357.5	2350.7	2344.0	2344.0	2347.4	2347.4	2340.6	2330.5	2330.5	2333.9	2327.2
22.5°	2313.7	2310.3	2303.6	2300.2	2307.0	2303.6	2290.1	2280.0	2276.7	2280.0	2273.3
25°	2253.1	2246.3	2243.0	2239.6	2243.0	2239.6	2226.1	2212.7	2212.7	2212.7	2202.6
27.5°	2168.9	2162.2	2158.8	2158.8	2162.2	2155.4	2141.9	2128.5	2121.7	2121.7	2111.6
30°	2061.1	2061.1	2057.7	2054.4	2051.0	2051.0	2030.8	2017.3	2010.6	2014.0	2007.2
32.5°	1929.8	1926.4	1923.0	1912.9	1916.3	1912.9	1896.1	1886.0	1875.9	1869.1	1865.8
35°	1761.4	1761.4	1758.0	1758.0	1758.0	1754.6	1737.8	1727.7	1721.0	1717.6	1707.5
37.5°	1576.1	1572.8	1569.4	1569.4	1569.4	1569.4	1559.3	1549.2	1549.2	1545.8	1539.1
40°	1367.3	1370.7	1374.1	1370.7	1380.8	1390.9	1377.4	1370.7	1367.3	1377.4	1364.0
42.5°	1165.3	1161.9	1178.7	1182.1	1182.1	1198.9	1202.3	1205.7	1202.3	1209.1	1209.1
45°	969.9	966.6	983.4	990.1	1007.0	1027.2	1037.3	1054.1	1060.9	1067.6	1060.9
47.5°	784.7	798.2	811.6	828.5	842.0	875.6	895.8	912.7	919.4	929.5	929.5
50°	629.8	643.3	666.8	680.3	697.1	737.6	771.2	794.8	808.3	818.4	815.0
52.5°	485.0	508.5	538.9	552.3	575.9	623.0	660.1	687.0	703.9	714.0	717.3
55°	373.8	394.0	424.3	444.6	468.1	518.6	565.8	596.1	612.9	626.4	633.2
57.5°	276.2	299.7	333.4	350.3	377.2	434.5	474.9	511.9	532.1	549.0	552.3
60°	202.1	225.6	256.0	276.2	303.1	360.4	407.5	441.2	464.8	478.2	485.0
62.5°	144.8	168.4	198.7	218.9	242.5	293.0	340.2	373.8	397.4	414.2	424.3
65°	104.4	128.0	158.3	175.1	195.3	242.5	286.3	319.9	343.5	363.7	370.5
67.5°	77.5	94.3	121.2	138.1	158.3	195.3	232.4	262.7	286.3	303.1	309.8
70°	57.3	70.7	94.3	104.4	117.9	151.6	181.9	208.8	229.0	242.5	249.2
72.5°	40.4	50.5	67.4	77.5	87.6	114.5	138.1	158.3	171.8	185.2	192.0
75°	26.9	33.7	47.1	53.9	60.6	80.8	97.7	114.5	124.6	134.7	138.1
77.5°	16.8	23.6	33.7	37.0	43.8	53.9	67.4	77.5	84.2	90.9	97.7
80°	10.1	13.5	20.2	23.6	26.9	37.0	43.8	50.5	57.3	64.0	67.4
82.5°	6.7	10.1	13.5	13.5	16.8	20.2	26.9	33.7	37.0	40.4	43.8
85°	3.4	3.4	6.7	6.7	10.1	10.1	13.5	16.8	20.2	23.6	26.9
87.5°	3.4	3.4	3.4	3.4	6.7	6.7	10.1	10.1	10.1	13.5	13.5
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: P252750

CATALOG NUMBER: LD6B70D010TE EU6B60709727 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1
2.5°	2371.0	2381.1	2371.0	2377.7	2374.3	2374.3	2371.0	2374.3
5°	2381.1	2394.5	2381.1	2391.2	2384.4	2384.4	2384.4	2387.8
7.5°	2391.2	2404.6	2394.5	2404.6	2401.3	2397.9	2397.9	2404.6
10°	2401.3	2411.4	2404.6	2414.7	2411.4	2408.0	2408.0	2414.7
12.5°	2401.3	2414.7	2408.0	2418.1	2414.7	2411.4	2411.4	2414.7
15°	2391.2	2408.0	2397.9	2408.0	2404.6	2401.3	2401.3	2408.0
17.5°	2360.9	2374.3	2367.6	2374.3	2374.3	2371.0	2374.3	2377.7
20°	2320.4	2330.5	2323.8	2330.5	2330.5	2323.8	2327.2	2330.5
22.5°	2263.2	2273.3	2266.6	2273.3	2269.9	2266.6	2266.6	2263.2
25°	2192.5	2205.9	2195.8	2202.6	2195.8	2189.1	2189.1	2192.5
27.5°	2104.9	2115.0	2101.5	2108.3	2101.5	2094.8	2094.8	2091.4
30°	1990.4	1993.8	1983.7	1990.4	1983.7	1980.3	1973.6	1973.6
32.5°	1852.3	1855.7	1845.6	1845.6	1838.8	1838.8	1825.4	1835.5
35°	1690.7	1694.0	1690.7	1687.3	1677.2	1673.8	1670.4	1670.4
37.5°	1522.3	1522.3	1512.2	1508.8	1502.1	1495.3	1498.7	1488.6
40°	1350.5	1347.1	1337.0	1340.4	1337.0	1326.9	1323.6	1320.2
42.5°	1188.8	1188.8	1178.7	1182.1	1175.4	1172.0	1161.9	1165.3
45°	1047.4	1047.4	1037.3	1037.3	1033.9	1023.8	1027.2	1020.5
47.5°	919.4	919.4	916.1	916.1	905.9	902.6	902.6	902.6
50°	808.3	808.3	808.3	808.3	804.9	801.5	798.2	801.5
52.5°	714.0	720.7	717.3	717.3	714.0	710.6	707.2	707.2
55°	629.8	633.2	633.2	636.5	633.2	629.8	633.2	629.8
57.5°	555.7	562.4	562.4	562.4	562.4	562.4	559.1	555.7
60°	491.7	495.1	495.1	498.4	498.4	498.4	495.1	495.1
62.5°	427.7	434.5	437.8	437.8	441.2	437.8	437.8	437.8
65°	377.2	383.9	387.3	383.9	387.3	387.3	383.9	383.9
67.5°	316.6	323.3	323.3	323.3	323.3	326.7	323.3	323.3
70°	256.0	262.7	259.3	262.7	262.7	262.7	262.7	262.7
72.5°	195.3	198.7	202.1	202.1	205.4	202.1	202.1	202.1
75°	141.4	148.2	148.2	148.2	148.2	151.6	151.6	151.6
77.5°	101.0	104.4	104.4	107.8	107.8	107.8	107.8	111.1
80°	70.7	70.7	74.1	74.1	77.5	77.5	77.5	77.5
82.5°	47.1	50.5	50.5	50.5	50.5	50.5	50.5	50.5
85°	26.9	30.3	30.3	30.3	30.3	33.7	33.7	33.7
87.5°	16.8	16.8	16.8	16.8	16.8	16.8	13.5	13.5
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)