

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: P252540

Luminaire Tested: **LD6B70D010TE EU6B60709040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60709040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5222.0 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

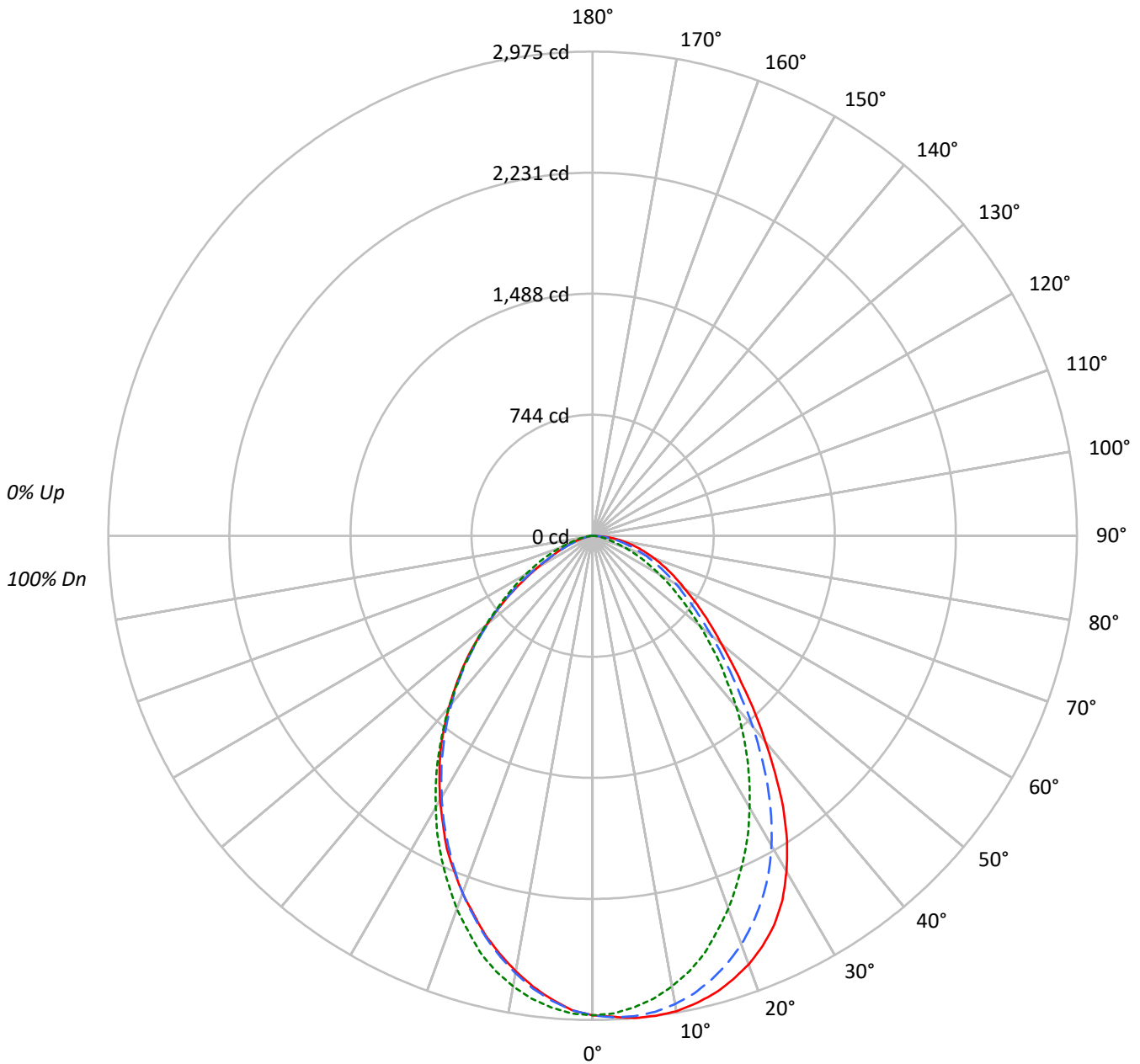
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	192199	192199	192199
5°	194806	190523	187307
10°	196515	186221	179980
15°	196493	179358	171618
20°	194592	169306	162204
25°	189976	157870	152572
30°	179391	145183	141175
35°	162609	131652	130027
40°	140430	117086	116736
45°	120423	101924	102681
50°	104653	87206	85967
55°	94009	73535	68883
60°	85426	61926	50718
65°	80212	51159	37266
70°	76491	39810	27316
75°	73226	28887	18552
80°	69167	19988	12286
85°	61232	12276	6138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.5	5.3
10°-20°	754.7	14.5
20°-30°	1047.8	20.1
30°-40°	1085.3	20.8
40°-50°	891.8	17.1
50°-60°	613.0	11.7
60°-70°	352.4	6.7
70°-80°	162.0	3.1
80°-90°	39.4	0.8
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°	2078.1	39.8
0°-40°	3163.4	60.6
0°-60°	4668.2	89.4
0°-90°	5222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5222.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2946	2946	2946	2946	2946	
5°	2975	2962	2909	2868	2860	283
15°	2909	2823	2656	2549	2541	819
25°	2639	2463	2193	2099	2120	1208
35°	2042	1874	1653	1604	1633	1266
45°	1305	1207	1105	1092	1113	1017
55°	826	749	646	610	606	744
65°	520	454	331	233	241	517
75°	290	229	115	74	74	307
85°	82	57	16	8	8	92
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°	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0
2.5°	2958.3	2982.8	2966.4	2962.3	2970.5	2970.5	2970.5	2958.3	2966.4	2954.2	2962.3
5°	2974.6	2995.1	2978.7	2970.5	2978.7	2982.8	2970.5	2962.3	2974.6	2958.3	2962.3
7.5°	2974.6	2995.1	2978.7	2974.6	2978.7	2978.7	2974.6	2958.3	2966.4	2950.1	2950.1
10°	2966.4	2982.8	2966.4	2958.3	2962.3	2958.3	2958.3	2937.8	2941.9	2921.4	2921.4
12.5°	2941.9	2962.3	2941.9	2933.7	2933.7	2933.7	2921.4	2905.1	2909.2	2884.6	2880.5
15°	2909.2	2925.5	2905.1	2896.9	2896.9	2892.8	2884.6	2860.1	2860.1	2835.5	2823.2
17.5°	2860.1	2876.4	2860.1	2847.8	2843.7	2835.5	2827.3	2802.8	2794.6	2765.9	2753.7
20°	2802.8	2815.0	2798.7	2786.4	2778.2	2770.0	2753.7	2729.1	2720.9	2692.3	2671.8
22.5°	2729.1	2745.5	2720.9	2708.7	2700.5	2688.2	2671.8	2647.3	2635.0	2598.2	2573.6
25°	2639.1	2647.3	2626.8	2614.6	2598.2	2590.0	2577.7	2545.0	2532.7	2491.8	2463.2
27.5°	2524.5	2532.7	2508.2	2500.0	2479.5	2471.4	2455.0	2426.3	2410.0	2369.1	2340.4
30°	2381.3	2389.5	2373.2	2360.9	2344.5	2328.1	2315.9	2287.2	2262.7	2221.8	2197.2
32.5°	2221.8	2234.0	2217.7	2201.3	2172.7	2176.8	2156.3	2127.7	2107.2	2070.4	2041.7
35°	2041.7	2049.9	2029.5	2025.4	2009.0	1992.6	1972.2	1951.7	1939.4	1898.5	1874.0
37.5°	1841.2	1861.7	1841.2	1824.9	1816.7	1804.4	1792.1	1763.5	1755.3	1730.8	1698.0
40°	1648.9	1661.2	1648.9	1632.6	1620.3	1620.3	1603.9	1587.6	1567.1	1542.5	1530.3
42.5°	1477.1	1468.9	1464.8	1456.6	1440.3	1436.2	1432.1	1411.6	1399.3	1374.8	1354.3
45°	1305.2	1309.3	1301.1	1297.1	1284.8	1276.6	1268.4	1252.0	1248.0	1223.4	1207.0
47.5°	1162.0	1157.9	1149.8	1149.8	1141.6	1133.4	1125.2	1112.9	1108.8	1088.4	1072.0
50°	1031.1	1035.2	1031.1	1027.0	1014.7	1010.6	1002.5	994.3	986.1	965.6	949.3
52.5°	924.7	920.6	916.5	916.5	904.3	900.2	892.0	883.8	875.6	855.2	842.9
55°	826.5	826.5	822.4	818.3	806.1	802.0	797.9	789.7	777.4	761.0	748.8
57.5°	736.5	736.5	732.4	728.3	720.1	720.1	711.9	703.8	695.6	679.2	662.8
60°	654.7	658.8	654.7	650.6	642.4	642.4	638.3	626.0	621.9	601.5	589.2
62.5°	585.1	585.1	585.1	581.0	576.9	568.7	568.7	556.5	548.3	536.0	519.6
65°	519.6	519.6	519.6	515.5	507.4	503.3	499.2	491.0	482.8	470.5	454.2
67.5°	458.3	458.3	458.3	454.2	446.0	441.9	437.8	433.7	421.4	409.2	392.8
70°	401.0	401.0	396.9	392.8	388.7	384.6	380.5	372.3	364.2	347.8	335.5
72.5°	343.7	343.7	343.7	335.5	331.4	331.4	323.2	319.1	311.0	294.6	282.3
75°	290.5	286.4	286.4	282.3	278.2	274.1	270.0	266.0	253.7	245.5	229.1
77.5°	237.3	237.3	233.2	229.1	229.1	225.0	220.9	212.8	208.7	196.4	184.1
80°	184.1	184.1	184.1	184.1	180.0	175.9	175.9	167.8	163.7	151.4	143.2
82.5°	139.1	135.0	135.0	135.0	130.9	126.8	126.8	122.7	118.7	110.5	102.3
85°	81.8	77.7	77.7	77.7	73.6	73.6	69.6	69.6	65.5	57.3	57.3
87.5°	24.5	24.5	28.6	28.6	24.5	24.5	24.5	24.5	24.5	20.5	20.5
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°	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0
2.5°	2954.2	2966.4	2950.1	2946.0	2962.3	2954.2	2950.1	2941.9	2946.0	2937.8	2925.5
5°	2950.1	2966.4	2946.0	2933.7	2954.2	2941.9	2933.7	2925.5	2925.5	2909.2	2901.0
7.5°	2937.8	2946.0	2925.5	2913.2	2925.5	2913.2	2905.1	2892.8	2888.7	2868.2	2856.0
10°	2905.1	2913.2	2888.7	2872.3	2884.6	2868.2	2856.0	2843.7	2835.5	2811.0	2794.6
12.5°	2860.1	2864.1	2835.5	2815.0	2823.2	2811.0	2790.5	2774.1	2765.9	2741.4	2720.9
15°	2798.7	2802.8	2770.0	2741.4	2749.6	2733.2	2708.7	2692.3	2680.0	2655.5	2626.8
17.5°	2725.0	2720.9	2684.1	2655.5	2659.6	2639.1	2614.6	2590.0	2573.6	2545.0	2524.5
20°	2643.2	2630.9	2590.0	2557.3	2561.4	2536.8	2508.2	2483.6	2463.2	2438.6	2410.0
22.5°	2540.9	2524.5	2487.7	2446.8	2450.9	2430.4	2389.5	2369.1	2348.6	2315.9	2291.3
25°	2430.4	2405.9	2369.1	2328.1	2328.1	2303.6	2270.9	2246.3	2225.9	2193.1	2164.5
27.5°	2299.5	2287.2	2238.1	2205.4	2201.3	2176.8	2148.1	2119.5	2094.9	2066.3	2037.6
30°	2156.3	2135.8	2099.0	2062.2	2054.0	2033.5	2004.9	1972.2	1955.8	1927.2	1902.6
32.5°	2004.9	1984.4	1943.5	1906.7	1902.6	1886.2	1861.7	1829.0	1812.6	1792.1	1775.8
35°	1833.1	1824.9	1784.0	1755.3	1755.3	1738.9	1714.4	1685.8	1673.5	1653.0	1632.6
37.5°	1669.4	1657.1	1620.3	1595.7	1595.7	1575.3	1550.7	1538.5	1526.2	1509.8	1497.5
40°	1497.5	1489.4	1460.7	1436.2	1440.3	1423.9	1407.5	1391.2	1383.0	1374.8	1362.5
42.5°	1338.0	1329.8	1309.3	1288.9	1288.9	1276.6	1260.2	1248.0	1239.8	1227.5	1223.4
45°	1194.8	1182.5	1166.1	1145.7	1145.7	1133.4	1125.2	1117.0	1112.9	1104.7	1092.5
47.5°	1055.6	1047.5	1031.1	1010.6	1010.6	1010.6	994.3	982.0	982.0	973.8	969.7
50°	937.0	924.7	912.4	896.1	896.1	887.9	875.6	863.3	863.3	859.2	851.1
52.5°	826.5	818.3	802.0	785.6	785.6	777.4	765.1	761.0	757.0	744.7	740.6
55°	732.4	724.2	711.9	691.5	687.4	683.3	671.0	662.8	658.8	646.5	646.5
57.5°	646.5	638.3	617.8	605.6	601.5	593.3	581.0	572.8	568.7	560.6	552.4
60°	572.8	560.6	544.2	527.8	523.7	515.5	503.3	495.1	491.0	474.6	466.4
62.5°	503.3	491.0	474.6	458.3	454.2	446.0	429.6	421.4	413.3	396.9	388.7
65°	437.8	425.5	409.2	392.8	384.6	380.5	364.2	351.9	343.7	331.4	315.1
67.5°	376.4	364.2	347.8	327.3	327.3	315.1	302.8	290.5	278.2	266.0	253.7
70°	319.1	306.9	290.5	274.1	270.0	261.9	249.6	233.2	225.0	208.7	196.4
72.5°	266.0	253.7	237.3	220.9	216.9	208.7	196.4	180.0	167.8	155.5	143.2
75°	216.9	204.6	188.2	175.9	171.8	163.7	151.4	135.0	122.7	114.6	102.3
77.5°	171.8	159.6	147.3	135.0	130.9	122.7	110.5	102.3	90.0	81.8	69.6
80°	130.9	122.7	110.5	102.3	98.2	90.0	81.8	69.6	61.4	53.2	49.1
82.5°	94.1	85.9	77.7	65.5	65.5	57.3	53.2	45.0	36.8	32.7	28.6
85°	53.2	45.0	40.9	36.8	32.7	32.7	28.6	24.5	20.5	16.4	16.4
87.5°	16.4	16.4	12.3	12.3	12.3	12.3	8.2	8.2	8.2	8.2	8.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0
2.5°	2925.5	2929.6	2921.4	2929.6	2921.4	2925.5	2917.3	2925.5	2917.3	2925.5	2909.2
5°	2896.9	2896.9	2884.6	2892.8	2884.6	2888.7	2872.3	2876.4	2868.2	2876.4	2860.1
7.5°	2847.8	2851.9	2831.4	2839.6	2827.3	2827.3	2815.0	2819.1	2806.9	2811.0	2798.7
10°	2790.5	2786.4	2765.9	2774.1	2757.8	2757.8	2745.5	2745.5	2729.1	2733.2	2716.8
12.5°	2708.7	2704.6	2680.0	2688.2	2671.8	2671.8	2659.6	2659.6	2643.2	2651.4	2635.0
15°	2614.6	2610.5	2585.9	2590.0	2573.6	2573.6	2557.3	2561.4	2549.1	2557.3	2540.9
17.5°	2508.2	2504.1	2479.5	2483.6	2463.2	2467.3	2455.0	2450.9	2442.7	2446.8	2434.5
20°	2397.7	2389.5	2365.0	2369.1	2360.9	2348.6	2340.4	2344.5	2336.3	2344.5	2332.2
22.5°	2283.1	2266.8	2246.3	2246.3	2238.1	2238.1	2225.9	2234.0	2217.7	2229.9	2221.8
25°	2152.2	2139.9	2123.6	2131.7	2115.4	2115.4	2103.1	2107.2	2099.0	2107.2	2099.0
27.5°	2025.4	2017.2	1992.6	2000.8	1988.5	1992.6	1980.4	1984.4	1980.4	1988.5	1980.4
30°	1890.3	1886.2	1869.9	1869.9	1865.8	1861.7	1857.6	1857.6	1853.5	1865.8	1857.6
32.5°	1763.5	1751.2	1734.9	1747.1	1726.7	1738.9	1730.8	1738.9	1730.8	1738.9	1734.9
35°	1632.6	1628.5	1608.0	1612.1	1608.0	1608.0	1603.9	1603.9	1603.9	1616.2	1616.2
37.5°	1493.4	1489.4	1477.1	1481.2	1473.0	1468.9	1468.9	1477.1	1477.1	1485.3	1485.3
40°	1358.4	1362.5	1350.2	1350.2	1346.1	1346.1	1346.1	1354.3	1350.2	1358.4	1354.3
42.5°	1223.4	1223.4	1211.1	1215.2	1211.1	1215.2	1215.2	1223.4	1223.4	1227.5	1223.4
45°	1096.6	1096.6	1092.5	1096.6	1088.4	1092.5	1088.4	1096.6	1092.5	1096.6	1096.6
47.5°	969.7	969.7	969.7	965.6	965.6	965.6	965.6	965.6	961.5	969.7	965.6
50°	851.1	855.2	851.1	851.1	847.0	851.1	847.0	847.0	838.8	842.9	842.9
52.5°	744.7	744.7	736.5	736.5	736.5	732.4	732.4	732.4	728.3	728.3	720.1
55°	642.4	642.4	634.2	634.2	630.1	626.0	621.9	621.9	609.7	609.7	597.4
57.5°	548.3	544.2	531.9	531.9	523.7	519.6	515.5	511.5	503.3	495.1	491.0
60°	462.4	454.2	446.0	441.9	433.7	425.5	417.3	409.2	401.0	396.9	392.8
62.5°	380.5	368.2	360.1	356.0	347.8	335.5	327.3	319.1	311.0	306.9	298.7
65°	306.9	294.6	282.3	278.2	270.0	261.9	249.6	241.4	233.2	229.1	229.1
67.5°	241.4	229.1	212.8	212.8	204.6	196.4	188.2	180.0	175.9	180.0	180.0
70°	180.0	171.8	159.6	155.5	147.3	139.1	135.0	135.0	135.0	139.1	135.0
72.5°	135.0	122.7	114.6	110.5	106.4	102.3	102.3	102.3	98.2	102.3	102.3
75°	94.1	85.9	77.7	77.7	73.6	73.6	73.6	73.6	73.6	73.6	73.6
77.5°	65.5	57.3	53.2	53.2	53.2	49.1	49.1	49.1	49.1	49.1	49.1
80°	40.9	40.9	36.8	36.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
82.5°	24.5	24.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
85°	12.3	12.3	12.3	12.3	12.3	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P252540

CATALOG NUMBER: LD6B70D010TE EU6B60709040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0	2946.0
2.5°	2909.2	2921.4	2905.1	2917.3	2913.2	2909.2	2901.0	2917.3
5°	2860.1	2864.1	2847.8	2864.1	2860.1	2851.9	2843.7	2860.1
7.5°	2790.5	2802.8	2782.3	2798.7	2794.6	2786.4	2778.2	2794.6
10°	2712.8	2725.0	2708.7	2720.9	2720.9	2712.8	2700.5	2716.8
12.5°	2626.8	2635.0	2618.6	2635.0	2630.9	2622.7	2618.6	2630.9
15°	2532.7	2545.0	2528.6	2540.9	2536.8	2532.7	2528.6	2540.9
17.5°	2430.4	2442.7	2430.4	2442.7	2442.7	2430.4	2426.3	2434.5
20°	2328.1	2336.3	2324.1	2336.3	2332.2	2332.2	2324.1	2336.3
22.5°	2213.6	2225.9	2217.7	2225.9	2221.8	2221.8	2217.7	2225.9
25°	2099.0	2111.3	2099.0	2111.3	2107.2	2107.2	2099.0	2119.5
27.5°	1984.4	1992.6	1980.4	1996.7	1992.6	1984.4	1988.5	1992.6
30°	1861.7	1869.9	1861.7	1874.0	1874.0	1874.0	1865.8	1874.0
32.5°	1738.9	1751.2	1738.9	1751.2	1747.1	1747.1	1743.0	1751.2
35°	1616.2	1620.3	1612.1	1624.4	1624.4	1628.5	1620.3	1632.6
37.5°	1489.4	1493.4	1489.4	1493.4	1501.6	1489.4	1497.5	1501.6
40°	1358.4	1366.6	1362.5	1366.6	1366.6	1370.7	1366.6	1370.7
42.5°	1227.5	1235.7	1227.5	1239.8	1235.7	1235.7	1239.8	1239.8
45°	1092.5	1104.7	1096.6	1104.7	1108.8	1104.7	1104.7	1112.9
47.5°	965.6	973.8	969.7	973.8	973.8	973.8	973.8	982.0
50°	838.8	842.9	842.9	847.0	847.0	851.1	842.9	847.0
52.5°	711.9	720.1	720.1	720.1	716.0	720.1	720.1	720.1
55°	597.4	601.5	593.3	601.5	601.5	597.4	597.4	605.6
57.5°	486.9	486.9	486.9	486.9	486.9	482.8	486.9	486.9
60°	384.6	388.7	384.6	384.6	384.6	384.6	380.5	388.7
62.5°	298.7	298.7	294.6	298.7	298.7	298.7	302.8	302.8
65°	233.2	237.3	233.2	237.3	237.3	237.3	237.3	241.4
67.5°	184.1	184.1	184.1	184.1	184.1	184.1	184.1	184.1
70°	139.1	139.1	139.1	143.2	139.1	139.1	139.1	143.2
72.5°	102.3	102.3	102.3	102.3	102.3	102.3	106.4	106.4
75°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
77.5°	49.1	49.1	49.1	53.2	49.1	53.2	49.1	49.1
80°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
82.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
85°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1
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)