

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: P252535

Luminaire Tested: **LD6B70D010TE EU6B60708050 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252535  
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 EU6B60708050 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6230.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 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

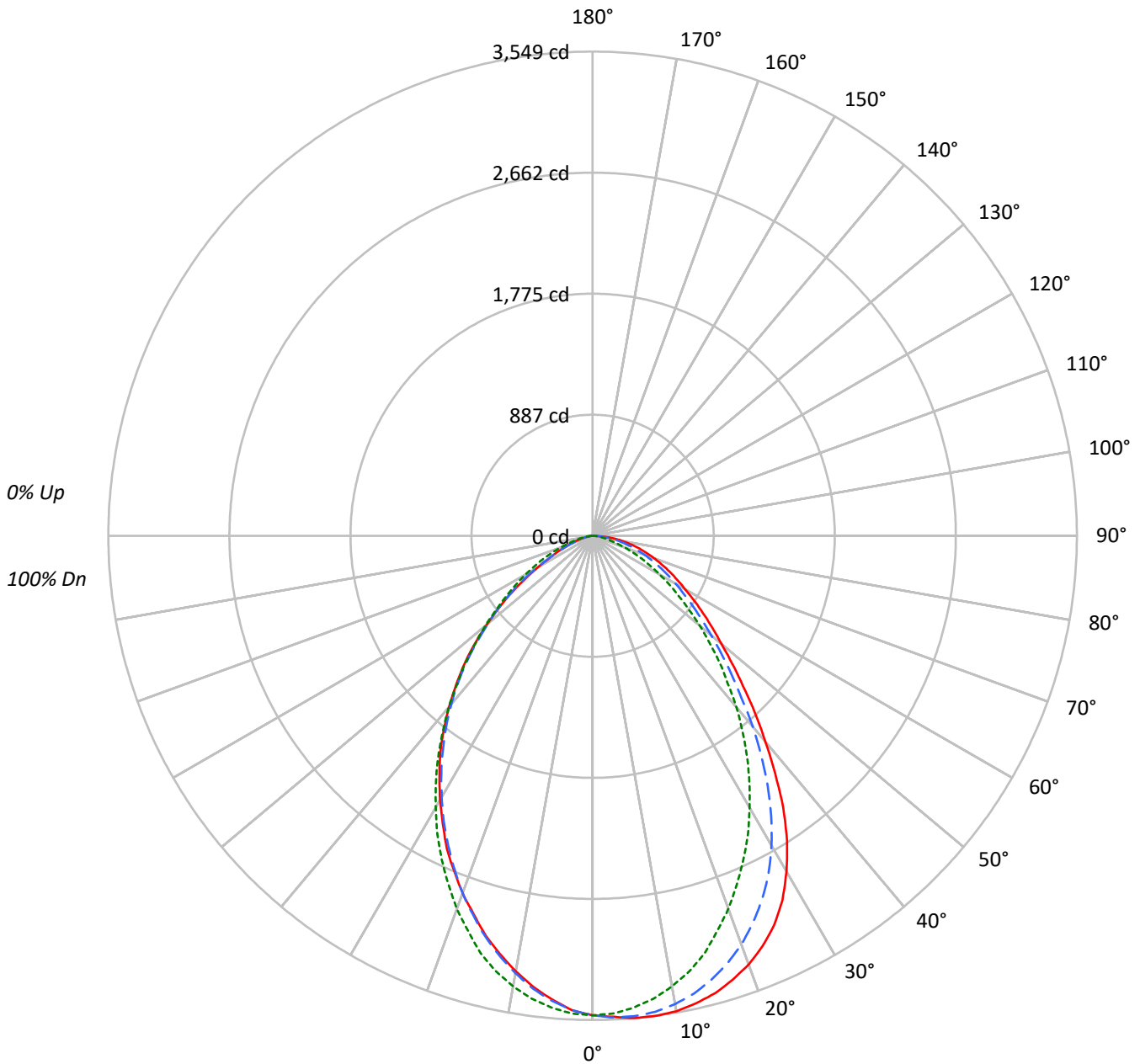
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252535

CATALOG NUMBER: LD6B70D010TE EU6B60708050 6LBLWW1H

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	229295	229295	229295
5°	232410	227296	223458
10°	234448	222166	214727
15°	234418	213980	204747
20°	232152	201986	193516
25°	226645	188349	182021
30°	214022	173207	168423
35°	193997	157066	155123
40°	167538	139689	139271
45°	143674	121604	122508
50°	124851	104044	102562
55°	112163	87730	82180
60°	101906	73878	60504
65°	95695	61039	44459
70°	91255	47497	32599
75°	87368	34458	22157
80°	82543	23857	14690
85°	73059	14597	7336



TEST NUMBER: P252535

CATALOG NUMBER: LD6B70D010TE EU6B60708050 6LBLWW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.7	5.3
10°-20°	900.4	14.5
20°-30°	1250.1	20.1
30°-40°	1294.8	20.8
40°-50°	1064.0	17.1
50°-60°	731.3	11.7
60°-70°	420.4	6.7
70°-80°	193.3	3.1
80°-90°	47.1	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°	2479.2	39.8
0°-40°	3774.0	60.6
0°-60°	5569.3	89.4
0°-90°	6230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3515	3515	3515	3515	3515	
5°	3549	3534	3471	3422	3412	338
15°	3471	3368	3168	3041	3031	978
25°	3148	2939	2616	2504	2529	1441
35°	2436	2236	1972	1914	1948	1511
45°	1557	1440	1318	1303	1328	1213
55°	986	893	771	727	722	887
65°	620	542	395	278	288	617
75°	347	273	137	88	88	366
85°	98	68	20	10	10	110
90°	0	0	0	0	0	



TEST NUMBER: P252535

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6
2.5°	3529.3	3558.6	3539.0	3534.2	3543.9	3543.9	3543.9	3529.3	3539.0	3524.4	3534.2
5°	3548.8	3573.2	3553.7	3543.9	3553.7	3558.6	3543.9	3534.2	3548.8	3529.3	3534.2
7.5°	3548.8	3573.2	3553.7	3548.8	3553.7	3553.7	3548.8	3529.3	3539.0	3519.5	3519.5
10°	3539.0	3558.6	3539.0	3529.3	3534.2	3529.3	3529.3	3504.9	3509.8	3485.4	3485.4
12.5°	3509.8	3534.2	3509.8	3500.0	3500.0	3500.0	3485.4	3465.8	3470.7	3441.4	3436.5
15°	3470.7	3490.2	3465.8	3456.1	3456.1	3451.2	3441.4	3412.1	3412.1	3382.8	3368.2
17.5°	3412.1	3431.7	3412.1	3397.5	3392.6	3382.8	3373.1	3343.8	3334.0	3299.9	3285.2
20°	3343.8	3358.4	3338.9	3324.3	3314.5	3304.7	3285.2	3255.9	3246.2	3212.0	3187.6
22.5°	3255.9	3275.5	3246.2	3231.5	3221.8	3207.1	3187.6	3158.3	3143.7	3099.7	3070.4
25°	3148.5	3158.3	3133.9	3119.2	3099.7	3090.0	3075.3	3036.3	3021.6	2972.8	2938.6
27.5°	3011.9	3021.6	2992.3	2982.6	2958.2	2948.4	2928.9	2894.7	2875.2	2826.4	2792.2
30°	2841.0	2850.8	2831.2	2816.6	2797.1	2777.5	2762.9	2728.7	2699.4	2650.6	2621.3
32.5°	2650.6	2665.3	2645.7	2626.2	2592.0	2596.9	2572.5	2538.4	2513.9	2470.0	2435.8
35°	2435.8	2445.6	2421.2	2416.3	2396.8	2377.3	2352.9	2328.5	2313.8	2265.0	2235.7
37.5°	2196.7	2221.1	2196.7	2177.1	2167.4	2152.7	2138.1	2103.9	2094.1	2064.9	2025.8
40°	1967.2	1981.9	1967.2	1947.7	1933.1	1933.1	1913.5	1894.0	1869.6	1840.3	1825.7
42.5°	1762.2	1752.4	1747.6	1737.8	1718.3	1713.4	1708.5	1684.1	1669.5	1640.2	1615.8
45°	1557.2	1562.1	1552.3	1547.4	1532.8	1523.0	1513.2	1493.7	1488.8	1459.6	1440.0
47.5°	1386.3	1381.4	1371.7	1371.7	1361.9	1352.2	1342.4	1327.8	1322.9	1298.5	1278.9
50°	1230.1	1235.0	1230.1	1225.2	1210.6	1205.7	1196.0	1186.2	1176.4	1152.0	1132.5
52.5°	1103.2	1098.3	1093.4	1093.4	1078.8	1073.9	1064.2	1054.4	1044.6	1020.2	1005.6
55°	986.1	986.1	981.2	976.3	961.6	956.8	951.9	942.1	927.5	907.9	893.3
57.5°	878.7	878.7	873.8	868.9	859.1	859.1	849.4	839.6	829.8	810.3	790.8
60°	781.0	785.9	781.0	776.2	766.4	766.4	761.5	746.9	742.0	717.6	702.9
62.5°	698.0	698.0	698.0	693.2	688.3	678.5	678.5	663.9	654.1	639.5	619.9
65°	619.9	619.9	619.9	615.1	605.3	600.4	595.5	585.8	576.0	561.4	541.8
67.5°	546.7	546.7	546.7	541.8	532.1	527.2	522.3	517.4	502.8	488.1	468.6
70°	478.4	478.4	473.5	468.6	463.7	458.9	454.0	444.2	434.4	414.9	400.3
72.5°	410.0	410.0	410.0	400.3	395.4	395.4	385.6	380.8	371.0	351.5	336.8
75°	346.6	341.7	341.7	336.8	331.9	327.1	322.2	317.3	302.6	292.9	273.4
77.5°	283.1	283.1	278.2	273.4	273.4	268.5	263.6	253.8	249.0	234.3	219.7
80°	219.7	219.7	219.7	219.7	214.8	209.9	209.9	200.1	195.3	180.6	170.9
82.5°	166.0	161.1	161.1	161.1	156.2	151.3	151.3	146.4	141.6	131.8	122.0
85°	97.6	92.7	92.7	92.7	87.9	87.9	83.0	83.0	78.1	68.3	68.3
87.5°	29.3	29.3	34.2	34.2	29.3	29.3	29.3	29.3	29.3	24.4	24.4
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: P252535

CATALOG NUMBER: LD6B70D010TE EU6B60708050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6
2.5°	3524.4	3539.0	3519.5	3514.6	3534.2	3524.4	3519.5	3509.8	3514.6	3504.9	3490.2
5°	3519.5	3539.0	3514.6	3500.0	3524.4	3509.8	3500.0	3490.2	3490.2	3470.7	3460.9
7.5°	3504.9	3514.6	3490.2	3475.6	3490.2	3475.6	3465.8	3451.2	3446.3	3421.9	3407.3
10°	3465.8	3475.6	3446.3	3426.8	3441.4	3421.9	3407.3	3392.6	3382.8	3353.6	3334.0
12.5°	3412.1	3417.0	3382.8	3358.4	3368.2	3353.6	3329.1	3309.6	3299.9	3270.6	3246.2
15°	3338.9	3343.8	3304.7	3270.6	3280.3	3260.8	3231.5	3212.0	3197.3	3168.1	3133.9
17.5°	3251.0	3246.2	3202.2	3168.1	3172.9	3148.5	3119.2	3090.0	3070.4	3036.3	3011.9
20°	3153.4	3138.8	3090.0	3050.9	3055.8	3026.5	2992.3	2963.0	2938.6	2909.3	2875.2
22.5°	3031.4	3011.9	2967.9	2919.1	2924.0	2899.6	2850.8	2826.4	2802.0	2762.9	2733.6
25°	2899.6	2870.3	2826.4	2777.5	2777.5	2748.3	2709.2	2679.9	2655.5	2616.5	2582.3
27.5°	2743.4	2728.7	2670.2	2631.1	2626.2	2596.9	2562.8	2528.6	2499.3	2465.1	2431.0
30°	2572.5	2548.1	2504.2	2460.2	2450.5	2426.1	2391.9	2352.9	2333.3	2299.2	2269.9
32.5°	2391.9	2367.5	2318.7	2274.8	2269.9	2250.3	2221.1	2182.0	2162.5	2138.1	2118.5
35°	2186.9	2177.1	2128.3	2094.1	2094.1	2074.6	2045.3	2011.2	1996.5	1972.1	1947.7
37.5°	1991.6	1977.0	1933.1	1903.8	1903.8	1879.4	1850.1	1835.4	1820.8	1801.3	1786.6
40°	1786.6	1776.8	1742.7	1713.4	1718.3	1698.7	1679.2	1659.7	1649.9	1640.2	1625.5
42.5°	1596.2	1586.5	1562.1	1537.7	1537.7	1523.0	1503.5	1488.8	1479.1	1464.4	1459.6
45°	1425.4	1410.7	1391.2	1366.8	1366.8	1352.2	1342.4	1332.6	1327.8	1318.0	1303.3
47.5°	1259.4	1249.7	1230.1	1205.7	1205.7	1205.7	1186.2	1171.5	1171.5	1161.8	1156.9
50°	1117.9	1103.2	1088.6	1069.0	1069.0	1059.3	1044.6	1030.0	1030.0	1025.1	1015.3
52.5°	986.1	976.3	956.8	937.2	937.2	927.5	912.8	907.9	903.1	888.4	883.5
55°	873.8	864.0	849.4	825.0	820.1	815.2	800.6	790.8	785.9	771.3	771.3
57.5°	771.3	761.5	737.1	722.5	717.6	707.8	693.2	683.4	678.5	668.8	659.0
60°	683.4	668.8	649.2	629.7	624.8	615.1	600.4	590.7	585.8	566.2	556.5
62.5°	600.4	585.8	566.2	546.7	541.8	532.1	512.6	502.8	493.0	473.5	463.7
65°	522.3	507.7	488.1	468.6	458.9	454.0	434.4	419.8	410.0	395.4	375.9
67.5°	449.1	434.4	414.9	390.5	390.5	375.9	361.2	346.6	331.9	317.3	302.6
70°	380.8	366.1	346.6	327.1	322.2	312.4	297.8	278.2	268.5	249.0	234.3
72.5°	317.3	302.6	283.1	263.6	258.7	249.0	234.3	214.8	200.1	185.5	170.9
75°	258.7	244.1	224.5	209.9	205.0	195.3	180.6	161.1	146.4	136.7	122.0
77.5°	205.0	190.4	175.7	161.1	156.2	146.4	131.8	122.0	107.4	97.6	83.0
80°	156.2	146.4	131.8	122.0	117.2	107.4	97.6	83.0	73.2	63.5	58.6
82.5°	112.3	102.5	92.7	78.1	78.1	68.3	63.5	53.7	43.9	39.1	34.2
85°	63.5	53.7	48.8	43.9	39.1	39.1	34.2	29.3	24.4	19.5	19.5
87.5°	19.5	19.5	14.6	14.6	14.6	14.6	9.8	9.8	9.8	9.8	9.8
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: P252535

CATALOG NUMBER: LD6B70D010TE EU6B60708050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6
2.5°	3490.2	3495.1	3485.4	3495.1	3485.4	3490.2	3480.5	3490.2	3480.5	3490.2	3470.7
5°	3456.1	3456.1	3441.4	3451.2	3441.4	3446.3	3426.8	3431.7	3421.9	3431.7	3412.1
7.5°	3397.5	3402.4	3378.0	3387.7	3373.1	3373.1	3358.4	3363.3	3348.7	3353.6	3338.9
10°	3329.1	3324.3	3299.9	3309.6	3290.1	3290.1	3275.5	3275.5	3255.9	3260.8	3241.3
12.5°	3231.5	3226.6	3197.3	3207.1	3187.6	3187.6	3172.9	3172.9	3153.4	3163.2	3143.7
15°	3119.2	3114.4	3085.1	3090.0	3070.4	3070.4	3050.9	3055.8	3041.1	3050.9	3031.4
17.5°	2992.3	2987.4	2958.2	2963.0	2938.6	2943.5	2928.9	2924.0	2914.2	2919.1	2904.5
20°	2860.5	2850.8	2821.5	2826.4	2816.6	2802.0	2792.2	2797.1	2787.3	2797.1	2782.4
22.5°	2723.8	2704.3	2679.9	2679.9	2670.2	2670.2	2655.5	2665.3	2645.7	2660.4	2650.6
25°	2567.6	2553.0	2533.5	2543.2	2523.7	2523.7	2509.1	2513.9	2504.2	2513.9	2504.2
27.5°	2416.3	2406.6	2377.3	2387.0	2372.4	2377.3	2362.6	2367.5	2362.6	2372.4	2362.6
30°	2255.2	2250.3	2230.8	2230.8	2225.9	2221.1	2216.2	2216.2	2211.3	2225.9	2216.2
32.5°	2103.9	2089.3	2069.7	2084.4	2060.0	2074.6	2064.9	2074.6	2064.9	2074.6	2069.7
35°	1947.7	1942.8	1918.4	1923.3	1918.4	1918.4	1913.5	1913.5	1913.5	1928.2	1928.2
37.5°	1781.7	1776.8	1762.2	1767.1	1757.3	1752.4	1752.4	1762.2	1762.2	1772.0	1772.0
40°	1620.6	1625.5	1610.9	1610.9	1606.0	1606.0	1606.0	1615.8	1610.9	1620.6	1615.8
42.5°	1459.6	1459.6	1444.9	1449.8	1444.9	1449.8	1449.8	1459.6	1459.6	1464.4	1459.6
45°	1308.2	1308.2	1303.3	1308.2	1298.5	1303.3	1298.5	1308.2	1303.3	1308.2	1308.2
47.5°	1156.9	1156.9	1156.9	1152.0	1152.0	1152.0	1152.0	1152.0	1147.1	1156.9	1152.0
50°	1015.3	1020.2	1015.3	1015.3	1010.5	1015.3	1010.5	1010.5	1000.7	1005.6	1005.6
52.5°	888.4	888.4	878.7	878.7	878.7	873.8	873.8	873.8	868.9	868.9	859.1
55°	766.4	766.4	756.6	756.6	751.7	746.9	742.0	742.0	727.3	727.3	712.7
57.5°	654.1	649.2	634.6	634.6	624.8	619.9	615.1	610.2	600.4	590.7	585.8
60°	551.6	541.8	532.1	527.2	517.4	507.7	497.9	488.1	478.4	473.5	468.6
62.5°	454.0	439.3	429.6	424.7	414.9	400.3	390.5	380.8	371.0	366.1	356.3
65°	366.1	351.5	336.8	331.9	322.2	312.4	297.8	288.0	278.2	273.4	273.4
67.5°	288.0	273.4	253.8	253.8	244.1	234.3	224.5	214.8	209.9	214.8	214.8
70°	214.8	205.0	190.4	185.5	175.7	166.0	161.1	161.1	161.1	166.0	161.1
72.5°	161.1	146.4	136.7	131.8	126.9	122.0	122.0	122.0	117.2	122.0	122.0
75°	112.3	102.5	92.7	92.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9
77.5°	78.1	68.3	63.5	63.5	63.5	58.6	58.6	58.6	58.6	58.6	58.6
80°	48.8	48.8	43.9	43.9	39.1	39.1	39.1	39.1	39.1	39.1	39.1
82.5°	29.3	29.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
85°	14.6	14.6	14.6	14.6	14.6	9.8	9.8	9.8	9.8	9.8	9.8
87.5°	4.9	4.9	4.9	4.9	4.9	9.8	9.8	9.8	9.8	9.8	9.8
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: P252535

CATALOG NUMBER: LD6B70D010TE EU6B60708050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6
2.5°	3470.7	3485.4	3465.8	3480.5	3475.6	3470.7	3460.9	3480.5
5°	3412.1	3417.0	3397.5	3417.0	3412.1	3402.4	3392.6	3412.1
7.5°	3329.1	3343.8	3319.4	3338.9	3334.0	3324.3	3314.5	3334.0
10°	3236.4	3251.0	3231.5	3246.2	3246.2	3236.4	3221.8	3241.3
12.5°	3133.9	3143.7	3124.1	3143.7	3138.8	3129.0	3124.1	3138.8
15°	3021.6	3036.3	3016.7	3031.4	3026.5	3021.6	3016.7	3031.4
17.5°	2899.6	2914.2	2899.6	2914.2	2914.2	2899.6	2894.7	2904.5
20°	2777.5	2787.3	2772.7	2787.3	2782.4	2782.4	2772.7	2787.3
22.5°	2640.9	2655.5	2645.7	2655.5	2650.6	2650.6	2645.7	2655.5
25°	2504.2	2518.8	2504.2	2518.8	2513.9	2513.9	2504.2	2528.6
27.5°	2367.5	2377.3	2362.6	2382.1	2377.3	2367.5	2372.4	2377.3
30°	2221.1	2230.8	2221.1	2235.7	2235.7	2235.7	2225.9	2235.7
32.5°	2074.6	2089.3	2074.6	2089.3	2084.4	2084.4	2079.5	2089.3
35°	1928.2	1933.1	1923.3	1937.9	1937.9	1942.8	1933.1	1947.7
37.5°	1776.8	1781.7	1776.8	1781.7	1791.5	1776.8	1786.6	1791.5
40°	1620.6	1630.4	1625.5	1630.4	1630.4	1635.3	1630.4	1635.3
42.5°	1464.4	1474.2	1464.4	1479.1	1474.2	1474.2	1479.1	1479.1
45°	1303.3	1318.0	1308.2	1318.0	1322.9	1318.0	1318.0	1327.8
47.5°	1152.0	1161.8	1156.9	1161.8	1161.8	1161.8	1161.8	1171.5
50°	1000.7	1005.6	1005.6	1010.5	1010.5	1015.3	1005.6	1010.5
52.5°	849.4	859.1	859.1	859.1	854.3	859.1	859.1	859.1
55°	712.7	717.6	707.8	717.6	717.6	712.7	712.7	722.5
57.5°	580.9	580.9	580.9	580.9	580.9	576.0	580.9	580.9
60°	458.9	463.7	458.9	458.9	458.9	458.9	454.0	463.7
62.5°	356.3	356.3	351.5	356.3	356.3	356.3	361.2	361.2
65°	278.2	283.1	278.2	283.1	283.1	283.1	283.1	288.0
67.5°	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7
70°	166.0	166.0	166.0	170.9	166.0	166.0	166.0	170.9
72.5°	122.0	122.0	122.0	122.0	122.0	122.0	126.9	126.9
75°	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
77.5°	58.6	58.6	58.6	63.5	58.6	63.5	58.6	58.6
80°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
82.5°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
85°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
87.5°	9.8	9.8	9.8	9.8	4.9	4.9	4.9	4.9
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)