

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: P252642

Luminaire Tested: **LD6B70D010TE EU6B60709030 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B70D010TE EU6B60709030 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6034.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

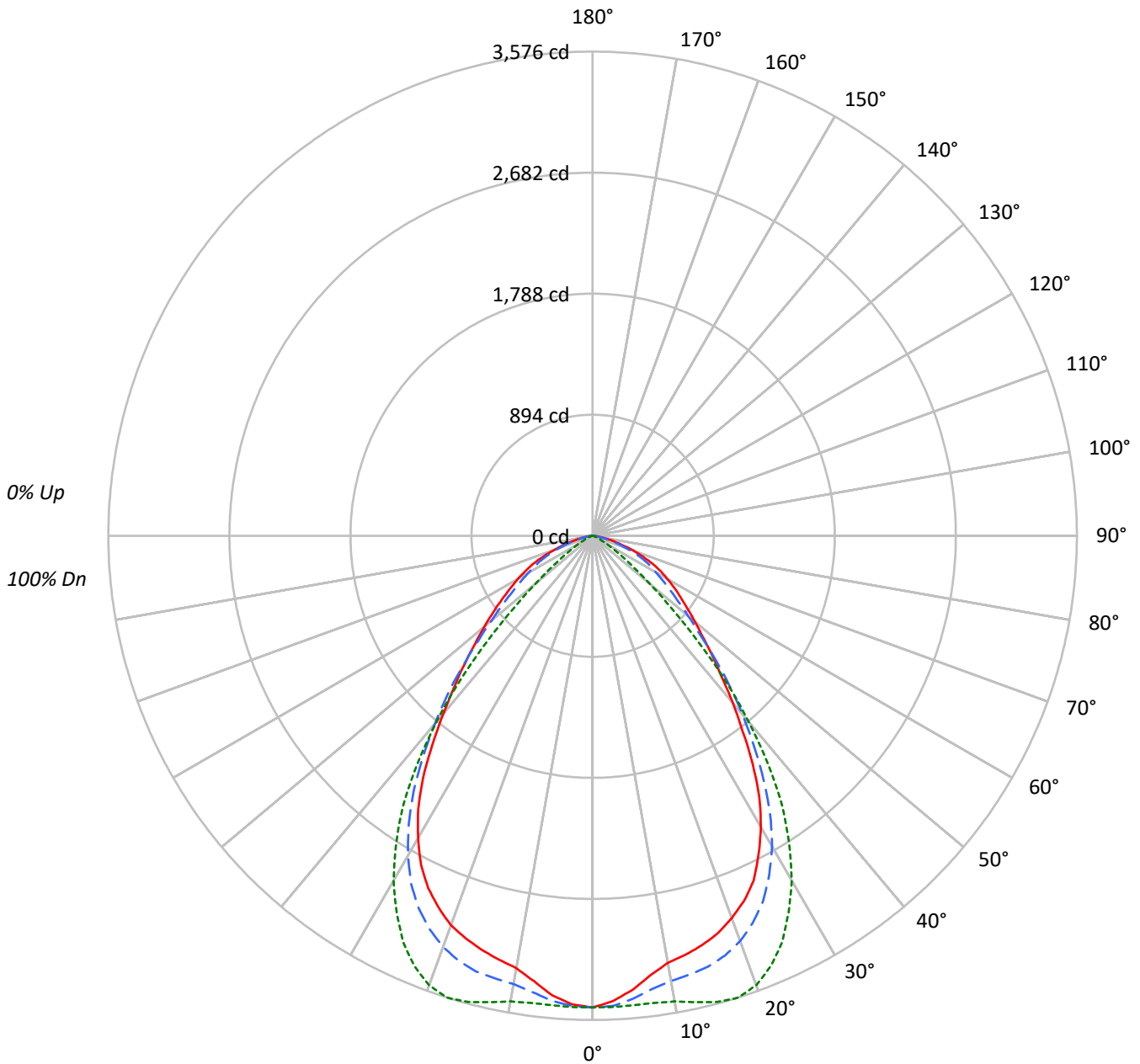
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°	90°	180°
0°	227279	227279	227279
5°	220498	227885	223137
10°	212110	231322	214780
15°	211359	240740	213811
20°	208595	245225	212504
25°	202357	238307	206712
30°	187196	221480	194179
35°	164226	194706	173855
40°	136853	152634	145778
45°	115192	100697	122997
50°	99741	55184	105871
55°	90244	29323	92530
60°	83025	15240	83025
65°	75226	8089	73358
70°	60697	4616	56081
75°	41617	3050	38567
80°	27239	1503	24195
85°	18115	2994	15046



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CATALOG NUMBER: LD6B70D010TE EU6B60709030 6LBDW1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.9	5.4
10°-20°	939.3	15.6
20°-30°	1387.9	23.0
30°-40°	1401.9	23.2
40°-50°	966.2	16.0
50°-60°	555.0	9.2
60°-70°	323.0	5.4
70°-80°	117.8	2.0
80°-90°	18.0	0.3
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°	2652.1	44.0
0°-40°	4054.0	67.2
0°-60°	5575.1	92.4
0°-90°	6034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3484	3484	3484	3484	3484	
5°	3367	3431	3480	3448	3407	316
15°	3129	3294	3564	3331	3166	882
25°	2811	2976	3310	3037	2872	1281
35°	2062	2203	2445	2304	2183	1280
45°	1248	1265	1091	1345	1333	971
55°	793	697	258	725	814	714
65°	487	411	52	407	475	477
75°	165	133	12	129	153	186
85°	24	12	4	16	20	31
90°	0	0	0	0	0	



TEST NUMBER: P252642

CATALOG NUMBER: LD6B70D010TE EU6B60709030 6LBDW1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7
2.5°	3439.4	3443.5	3447.5	3443.5	3447.5	3463.6	3451.5	3459.6	3459.6	3463.6	3475.7
5°	3366.9	3366.9	3375.0	3371.0	3383.0	3399.2	3387.1	3399.2	3403.2	3411.2	3431.4
7.5°	3274.3	3274.3	3278.3	3278.3	3294.4	3310.5	3302.5	3318.6	3334.7	3350.8	3375.0
10°	3201.8	3209.9	3209.9	3213.9	3230.0	3250.1	3246.1	3266.2	3282.4	3306.5	3338.7
12.5°	3169.6	3173.6	3173.6	3181.7	3197.8	3217.9	3213.9	3234.0	3258.2	3286.4	3318.6
15°	3129.3	3137.4	3133.3	3141.4	3157.5	3177.6	3173.6	3193.8	3221.9	3250.1	3294.4
17.5°	3077.0	3081.0	3085.0	3085.0	3101.1	3117.2	3117.2	3137.4	3169.6	3201.8	3250.1
20°	3004.5	3012.5	3012.5	3016.5	3028.6	3052.8	3048.8	3068.9	3101.1	3133.3	3185.7
22.5°	2919.9	2923.9	2923.9	2927.9	2948.1	2960.2	2964.2	2980.3	3008.5	3044.7	3093.1
25°	2811.1	2815.2	2811.1	2823.2	2831.3	2855.4	2847.4	2867.5	2899.8	2927.9	2976.3
27.5°	2654.1	2662.1	2662.1	2666.2	2686.3	2706.4	2706.4	2726.6	2754.8	2774.9	2823.2
30°	2484.9	2497.0	2484.9	2505.1	2513.1	2529.2	2541.3	2553.4	2577.6	2605.7	2650.1
32.5°	2291.6	2287.6	2291.6	2299.7	2323.8	2335.9	2344.0	2356.0	2380.2	2404.4	2440.6
35°	2062.0	2070.1	2074.1	2090.2	2090.2	2110.4	2114.4	2122.5	2158.7	2174.8	2203.0
37.5°	1820.4	1828.5	1832.5	1840.5	1856.6	1864.7	1876.8	1888.9	1913.0	1941.2	1957.3
40°	1606.9	1606.9	1611.0	1619.0	1631.1	1635.1	1647.2	1663.3	1679.4	1703.6	1719.7
42.5°	1405.6	1409.6	1405.6	1413.6	1425.7	1441.8	1437.8	1457.9	1462.0	1478.1	1490.1
45°	1248.5	1248.5	1240.4	1248.5	1248.5	1264.6	1260.6	1268.6	1264.6	1272.7	1264.6
47.5°	1099.5	1103.5	1099.5	1103.5	1103.5	1103.5	1107.5	1099.5	1103.5	1091.4	1067.3
50°	982.7	986.7	978.7	982.7	978.7	974.6	978.7	966.6	962.6	946.4	922.3
52.5°	882.0	878.0	874.0	874.0	874.0	869.9	865.9	853.8	841.7	825.6	797.4
55°	793.4	789.4	785.3	785.3	777.3	773.3	773.3	761.2	749.1	729.0	696.7
57.5°	712.9	708.8	704.8	704.8	700.8	692.7	692.7	680.6	664.5	640.4	612.2
60°	636.3	636.3	636.3	632.3	632.3	624.3	624.3	612.2	596.1	571.9	539.7
62.5°	567.9	563.8	563.8	563.8	563.8	559.8	555.8	547.7	531.6	507.5	479.3
65°	487.3	487.3	487.3	487.3	483.3	483.3	483.3	471.2	463.2	439.0	410.8
67.5°	398.7	398.7	398.7	398.7	394.7	398.7	398.7	390.7	382.6	358.4	334.3
70°	318.2	314.1	310.1	314.1	310.1	310.1	314.1	306.1	302.1	281.9	257.8
72.5°	233.6	237.6	233.6	233.6	233.6	229.6	233.6	229.6	221.5	205.4	189.3
75°	165.1	169.2	169.2	165.1	165.1	165.1	161.1	161.1	153.0	141.0	132.9
77.5°	112.8	112.8	112.8	112.8	108.7	108.7	108.7	104.7	100.7	92.6	84.6
80°	72.5	72.5	72.5	72.5	68.5	68.5	68.5	64.4	64.4	56.4	48.3
82.5°	44.3	44.3	44.3	44.3	44.3	44.3	40.3	40.3	36.2	32.2	28.2
85°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	20.1	20.1	16.1	12.1
87.5°	8.1	8.1	12.1	12.1	12.1	12.1	12.1	12.1	8.1	8.1	8.1
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: P252642

CATALOG NUMBER: LD6B70D010TE EU6B60709030 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7
2.5°	3467.6	3471.6	3471.6	3471.6	3483.7	3487.8	3475.7	3463.6	3487.8	3483.7	3491.8
5°	3427.3	3439.4	3447.5	3451.5	3463.6	3471.6	3459.6	3455.5	3475.7	3479.7	3483.7
7.5°	3379.0	3399.2	3419.3	3427.3	3443.5	3451.5	3447.5	3447.5	3471.6	3479.7	3479.7
10°	3346.8	3375.0	3399.2	3419.3	3439.4	3451.5	3451.5	3455.5	3483.7	3491.8	3499.8
12.5°	3338.7	3375.0	3407.2	3435.4	3451.5	3471.6	3475.7	3487.8	3515.9	3528.0	3528.0
15°	3318.6	3366.9	3407.2	3443.5	3467.6	3491.8	3499.8	3524.0	3556.2	3564.3	3572.3
17.5°	3282.4	3330.7	3379.0	3423.3	3455.5	3475.7	3499.8	3524.0	3564.3	3576.4	3580.4
20°	3217.9	3274.3	3322.6	3366.9	3399.2	3427.3	3451.5	3479.7	3515.9	3532.1	3536.1
22.5°	3121.3	3177.6	3226.0	3274.3	3306.5	3330.7	3354.9	3387.1	3423.3	3439.4	3439.4
25°	3004.5	3056.8	3109.2	3145.4	3177.6	3205.8	3217.9	3254.2	3290.4	3310.5	3310.5
27.5°	2855.4	2903.8	2952.1	2992.4	3012.5	3036.7	3056.8	3089.0	3117.2	3133.3	3149.5
30°	2666.2	2714.5	2758.8	2799.1	2823.2	2847.4	2867.5	2891.7	2919.9	2940.0	2944.1
32.5°	2460.8	2501.0	2545.3	2585.6	2609.8	2617.8	2638.0	2662.1	2686.3	2702.4	2706.4
35°	2235.2	2263.4	2291.6	2327.9	2352.0	2352.0	2372.2	2388.3	2408.4	2444.7	2436.6
37.5°	1969.4	2009.7	2029.8	2041.9	2058.0	2074.1	2078.2	2098.3	2122.5	2130.5	2142.6
40°	1719.7	1731.8	1743.9	1743.9	1760.0	1760.0	1760.0	1764.0	1788.2	1792.2	1808.3
42.5°	1470.0	1470.0	1457.9	1445.8	1449.9	1445.8	1425.7	1425.7	1437.8	1453.9	1453.9
45°	1236.4	1208.2	1172.0	1143.8	1123.7	1115.6	1091.4	1091.4	1087.4	1091.4	1107.5
47.5°	1039.1	990.7	930.3	874.0	853.8	837.7	801.5	785.3	777.3	781.3	789.4
50°	874.0	821.6	753.1	684.7	648.4	628.3	584.0	555.8	551.8	543.7	559.8
52.5°	753.1	688.7	616.2	535.6	499.4	467.2	418.9	394.7	378.6	378.6	382.6
55°	648.4	580.0	499.4	418.9	382.6	358.4	310.1	277.9	261.8	257.8	269.8
57.5°	559.8	495.4	414.8	334.3	298.0	269.8	221.5	193.3	181.2	173.2	177.2
60°	491.3	426.9	346.4	269.8	237.6	205.4	165.1	132.9	116.8	116.8	120.8
62.5°	426.9	366.5	294.0	221.5	193.3	165.1	120.8	92.6	80.5	76.5	80.5
65°	362.5	306.1	245.7	185.3	157.1	132.9	96.7	72.5	56.4	52.4	56.4
67.5°	294.0	249.7	197.3	149.0	124.9	104.7	72.5	52.4	40.3	36.2	40.3
70°	229.6	189.3	149.0	108.7	92.6	76.5	52.4	40.3	28.2	24.2	28.2
72.5°	165.1	136.9	104.7	76.5	64.4	52.4	36.2	28.2	20.1	16.1	20.1
75°	112.8	92.6	68.5	48.3	40.3	36.2	24.2	16.1	12.1	12.1	12.1
77.5°	72.5	56.4	44.3	32.2	24.2	20.1	12.1	8.1	8.1	8.1	8.1
80°	40.3	32.2	24.2	16.1	12.1	12.1	8.1	8.1	4.0	4.0	4.0
82.5°	24.2	16.1	12.1	8.1	8.1	4.0	4.0	4.0	4.0	4.0	4.0
85°	12.1	8.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P252642

CATALOG NUMBER: LD6B70D010TE EU6B60709030 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7
2.5°	3475.7	3479.7	3467.6	3483.7	3471.6	3487.8	3487.8	3471.6	3475.7	3467.6	3483.7
5°	3467.6	3467.6	3459.6	3471.6	3455.5	3471.6	3467.6	3439.4	3447.5	3431.4	3447.5
7.5°	3467.6	3459.6	3447.5	3459.6	3439.4	3451.5	3435.4	3407.2	3399.2	3379.0	3379.0
10°	3479.7	3467.6	3451.5	3455.5	3435.4	3439.4	3415.3	3375.0	3362.9	3338.7	3330.7
12.5°	3507.9	3495.8	3471.6	3479.7	3451.5	3451.5	3419.3	3371.0	3346.8	3314.6	3306.5
15°	3548.2	3528.0	3499.8	3503.9	3475.7	3459.6	3419.3	3362.9	3330.7	3286.4	3274.3
17.5°	3556.2	3536.1	3499.8	3499.8	3463.6	3443.5	3395.1	3330.7	3290.4	3246.1	3221.9
20°	3511.9	3491.8	3451.5	3447.5	3415.3	3387.1	3334.7	3270.3	3230.0	3181.7	3161.5
22.5°	3419.3	3395.1	3358.9	3354.9	3322.6	3306.5	3250.1	3185.7	3145.4	3097.1	3081.0
25°	3282.4	3270.3	3234.0	3230.0	3201.8	3181.7	3133.3	3072.9	3036.7	2988.4	2972.2
27.5°	3121.3	3109.2	3072.9	3072.9	3040.7	3028.6	2984.3	2927.9	2899.8	2855.4	2835.3
30°	2927.9	2911.8	2891.7	2887.7	2859.5	2847.4	2807.1	2754.8	2726.6	2690.3	2682.3
32.5°	2698.4	2686.3	2674.2	2670.2	2642.0	2629.9	2601.7	2549.4	2525.2	2493.0	2480.9
35°	2432.6	2424.5	2412.4	2408.4	2396.3	2384.2	2356.0	2315.8	2303.7	2279.5	2267.4
37.5°	2126.5	2134.5	2126.5	2126.5	2114.4	2118.4	2094.3	2070.1	2058.0	2041.9	2033.9
40°	1796.2	1812.3	1824.4	1824.4	1820.4	1836.5	1832.5	1812.3	1808.3	1800.3	1796.2
42.5°	1462.0	1470.0	1494.2	1510.3	1506.3	1546.5	1550.6	1566.7	1578.8	1570.7	1574.7
45°	1111.6	1135.7	1168.0	1184.1	1204.2	1256.6	1284.8	1317.0	1345.2	1361.3	1357.2
47.5°	801.5	829.7	865.9	890.1	926.3	990.7	1063.2	1103.5	1143.8	1163.9	1184.1
50°	580.0	608.1	652.4	688.7	712.9	801.5	878.0	930.3	974.6	1002.8	1023.0
52.5°	406.8	439.0	487.3	519.5	555.8	640.4	729.0	789.4	837.7	874.0	894.1
55°	281.9	318.2	362.5	394.7	435.0	523.6	608.1	672.6	724.9	757.2	781.3
57.5°	197.3	229.6	273.9	302.1	342.3	426.9	511.5	575.9	628.3	660.5	688.7
60°	132.9	165.1	209.4	237.6	269.8	354.4	430.9	499.4	547.7	580.0	608.1
62.5°	92.6	120.8	165.1	193.3	221.5	294.0	366.5	426.9	475.2	511.5	535.6
65°	72.5	96.7	132.9	157.1	185.3	245.7	306.1	358.4	406.8	443.0	459.1
67.5°	52.4	76.5	104.7	124.9	145.0	197.3	249.7	290.0	334.3	362.5	382.6
70°	36.2	52.4	76.5	92.6	108.7	149.0	189.3	225.5	257.8	277.9	294.0
72.5°	28.2	36.2	52.4	64.4	76.5	104.7	136.9	165.1	189.3	205.4	221.5
75°	16.1	24.2	36.2	44.3	52.4	72.5	92.6	112.8	128.9	141.0	149.0
77.5°	8.1	12.1	20.1	24.2	32.2	44.3	60.4	72.5	84.6	92.6	100.7
80°	8.1	8.1	12.1	12.1	16.1	24.2	32.2	40.3	48.3	56.4	60.4
82.5°	4.0	4.0	8.1	8.1	8.1	12.1	16.1	24.2	28.2	32.2	36.2
85°	4.0	4.0	4.0	4.0	4.0	8.1	8.1	12.1	16.1	20.1	20.1
87.5°	0.0	0.0	4.0	4.0	4.0	4.0	4.0	8.1	8.1	8.1	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





TEST NUMBER: P252642

CATALOG NUMBER: LD6B70D010TE EU6B60709030 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7	3483.7
2.5°	3471.6	3479.7	3475.7	3483.7	3471.6	3467.6	3475.7	3463.6
5°	3427.3	3431.4	3427.3	3427.3	3419.3	3411.2	3419.3	3407.2
7.5°	3358.9	3358.9	3346.8	3346.8	3330.7	3322.6	3322.6	3318.6
10°	3302.5	3290.4	3278.3	3282.4	3258.2	3250.1	3246.1	3242.1
12.5°	3274.3	3266.2	3246.1	3246.1	3221.9	3213.9	3209.9	3205.8
15°	3242.1	3226.0	3209.9	3205.8	3185.7	3177.6	3173.6	3165.6
17.5°	3185.7	3173.6	3153.5	3153.5	3133.3	3129.3	3121.3	3117.2
20°	3125.3	3109.2	3093.1	3093.1	3068.9	3068.9	3056.8	3060.8
22.5°	3040.7	3028.6	3012.5	3012.5	2992.4	2988.4	2976.3	2972.2
25°	2940.0	2923.9	2911.8	2907.8	2891.7	2883.6	2879.6	2871.6
27.5°	2807.1	2795.0	2783.0	2774.9	2754.8	2750.7	2738.7	2742.7
30°	2642.0	2633.9	2629.9	2621.9	2597.7	2589.6	2589.6	2577.6
32.5°	2460.8	2448.7	2440.6	2428.5	2408.4	2404.4	2392.3	2396.3
35°	2239.3	2223.1	2211.1	2215.1	2190.9	2186.9	2178.8	2182.9
37.5°	2009.7	1993.6	1977.5	1973.4	1953.3	1953.3	1941.2	1941.2
40°	1772.1	1756.0	1747.9	1747.9	1723.7	1727.8	1715.7	1711.7
42.5°	1558.6	1542.5	1538.5	1534.5	1522.4	1518.3	1506.3	1510.3
45°	1357.2	1353.2	1353.2	1345.2	1333.1	1329.1	1333.1	1333.1
47.5°	1180.0	1184.1	1180.0	1180.0	1172.0	1180.0	1172.0	1176.0
50°	1031.0	1039.1	1039.1	1039.1	1035.1	1039.1	1039.1	1043.1
52.5°	906.2	918.3	914.2	918.3	914.2	922.3	918.3	922.3
55°	797.4	805.5	809.5	813.5	813.5	813.5	813.5	813.5
57.5°	696.7	708.8	712.9	716.9	716.9	724.9	716.9	716.9
60°	616.2	628.3	632.3	636.3	636.3	640.4	632.3	636.3
62.5°	543.7	555.8	555.8	559.8	559.8	559.8	551.8	555.8
65°	471.2	475.2	479.3	479.3	475.2	475.2	471.2	475.2
67.5°	390.7	394.7	390.7	390.7	386.6	386.6	378.6	382.6
70°	302.1	302.1	306.1	302.1	298.0	302.1	298.0	294.0
72.5°	225.5	225.5	225.5	221.5	221.5	217.5	221.5	221.5
75°	153.0	153.0	157.1	157.1	157.1	157.1	153.0	153.0
77.5°	100.7	100.7	100.7	100.7	104.7	100.7	100.7	100.7
80°	64.4	64.4	68.5	68.5	64.4	64.4	64.4	64.4
82.5°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
85°	24.2	24.2	24.2	24.2	20.1	20.1	20.1	20.1
87.5°	12.1	12.1	12.1	12.1	12.1	12.1	8.1	8.1
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)