

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: P252739

Luminaire Tested: **LD6B70D010TE EU6B60708027 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252739  
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 EU6B60708027 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6330.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 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

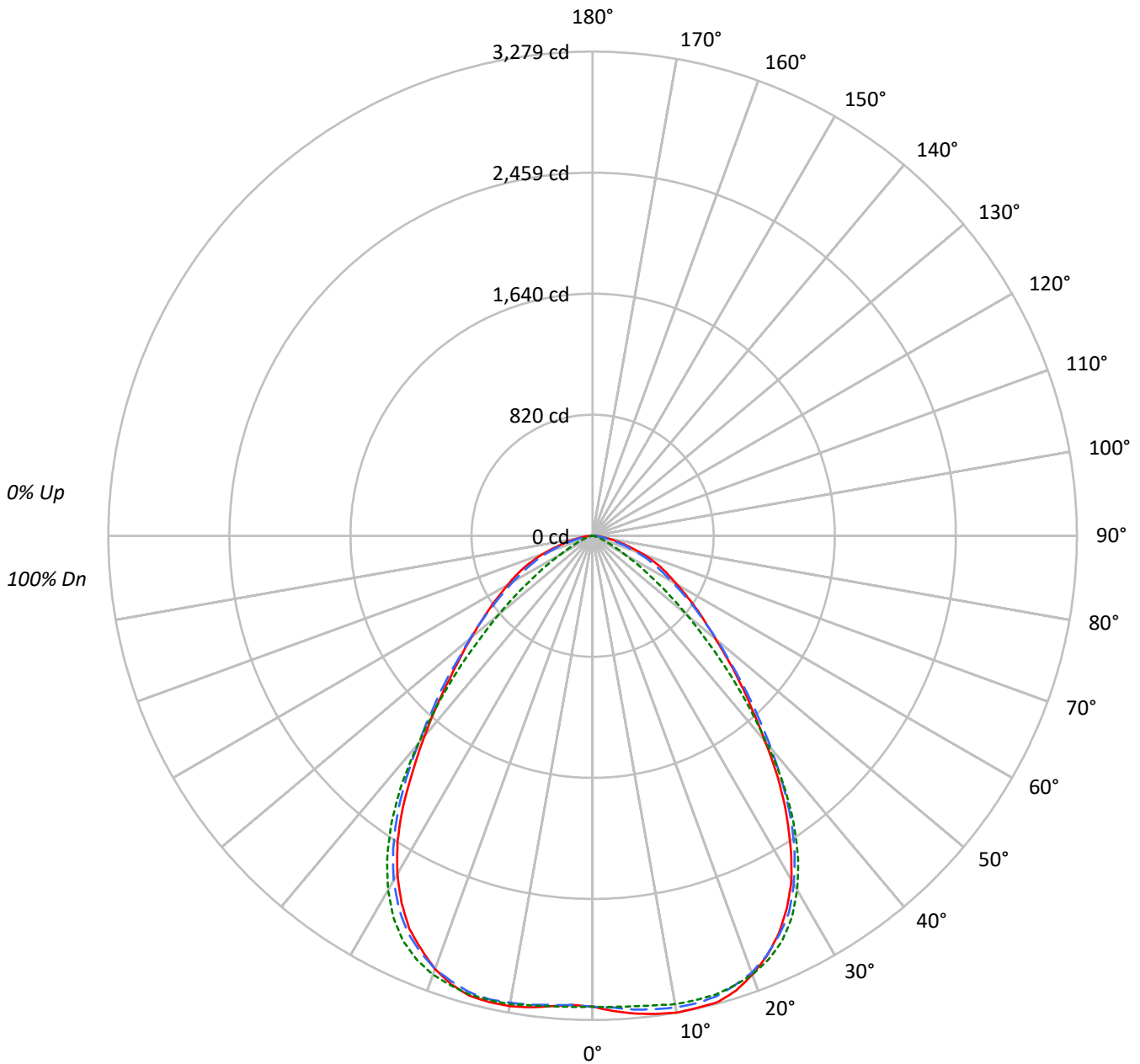
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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°	208065	208065	208065
5°	212698	209450	209450
10°	217251	213369	214263
15°	220890	217236	217843
20°	219537	219537	216718
25°	214314	218208	211391
30°	202873	208651	199136
35°	181788	188972	178196
40°	154439	156356	150598
45°	130683	119445	126107
50°	110337	84242	108967
55°	96978	54392	95943
60°	85935	32372	86522
65°	79378	19497	79378
70°	68842	11178	67106
75°	54573	6831	51170
80°	40689	5072	38998
85°	37128	3368	33760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.0	4.9
10°-20°	908.7	14.4
20°-30°	1366.7	21.6
30°-40°	1436.9	22.7
40°-50°	1073.4	17.0
50°-60°	668.3	10.6
60°-70°	380.0	6.0
70°-80°	156.5	2.5
80°-90°	32.4	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°	2582.4	40.8
0°-40°	4019.4	63.5
0°-60°	5761.1	91.0
0°-90°	6330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6330.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3189	3189	3189	3189	3189	
5°	3248	3221	3198	3189	3198	311
15°	3270	3230	3216	3203	3225	919
25°	2977	2986	3031	2964	2937	1363
35°	2282	2341	2373	2305	2237	1416
45°	1416	1448	1295	1421	1367	1098
55°	853	834	478	821	844	767
65°	514	460	126	460	514	506
75°	216	171	27	167	203	235
85°	50	32	4	27	45	55
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°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3220.8	3216.3	3220.8	3211.7	3207.2	3207.2	3211.7	3202.7	3198.2	3202.7	3198.2
5°	3247.8	3238.8	3243.3	3238.8	3229.8	3229.8	3234.3	3220.8	3220.8	3225.3	3220.8
7.5°	3265.9	3265.9	3265.9	3256.9	3252.3	3247.8	3256.9	3243.3	3238.8	3238.8	3234.3
10°	3279.4	3274.9	3279.4	3270.4	3261.4	3256.9	3265.9	3256.9	3247.8	3256.9	3243.3
12.5°	3274.9	3274.9	3274.9	3270.4	3261.4	3256.9	3265.9	3252.3	3247.8	3252.3	3243.3
15°	3270.4	3256.9	3261.4	3256.9	3243.3	3243.3	3247.8	3234.3	3225.3	3238.8	3229.8
17.5°	3229.8	3220.8	3225.3	3216.3	3207.2	3202.7	3207.2	3202.7	3193.7	3202.7	3193.7
20°	3162.1	3162.1	3166.6	3157.6	3148.6	3144.1	3153.1	3144.1	3135.1	3148.6	3148.6
22.5°	3080.9	3080.9	3080.9	3076.4	3071.9	3071.9	3071.9	3067.4	3062.9	3071.9	3076.4
25°	2977.2	2972.7	2977.2	2981.7	2977.2	2972.7	2977.2	2977.2	2968.2	2986.2	2986.2
27.5°	2846.4	2846.4	2855.4	2850.9	2850.9	2846.4	2855.4	2855.4	2850.9	2864.4	2877.9
30°	2693.0	2684.0	2693.0	2693.0	2697.5	2697.5	2702.0	2702.0	2702.0	2715.5	2724.6
32.5°	2494.5	2499.0	2512.6	2508.0	2503.5	2517.1	2517.1	2526.1	2530.6	2539.6	2544.1
35°	2282.5	2287.0	2287.0	2291.5	2300.5	2291.5	2314.1	2309.6	2314.1	2332.1	2341.1
37.5°	2057.0	2043.4	2066.0	2057.0	2061.5	2061.5	2070.5	2075.0	2088.5	2111.1	2111.1
40°	1813.4	1817.9	1826.9	1831.4	1835.9	1835.9	1835.9	1849.5	1854.0	1881.0	1876.5
42.5°	1601.4	1601.4	1610.4	1614.9	1614.9	1614.9	1614.9	1628.4	1637.4	1646.5	1655.5
45°	1416.4	1402.9	1411.9	1411.9	1420.9	1416.4	1425.4	1434.5	1439.0	1452.5	1448.0
47.5°	1240.5	1236.0	1240.5	1245.0	1240.5	1245.0	1249.5	1254.0	1258.5	1258.5	1258.5
50°	1087.1	1087.1	1091.6	1096.1	1096.1	1096.1	1096.1	1100.7	1100.7	1109.7	1100.7
52.5°	960.8	965.3	965.3	960.8	965.3	965.3	969.8	969.8	965.3	965.3	951.8
55°	852.6	848.0	852.6	848.0	852.6	852.6	848.0	848.0	843.5	839.0	834.5
57.5°	748.8	748.8	748.8	748.8	744.3	748.8	744.3	739.8	739.8	730.8	717.2
60°	658.6	658.6	658.6	658.6	658.6	654.1	658.6	654.1	645.1	636.0	618.0
62.5°	581.9	577.4	581.9	577.4	577.4	572.9	572.9	568.4	559.3	550.3	532.3
65°	514.2	518.8	514.2	514.2	509.7	505.2	505.2	500.7	487.2	478.2	460.1
67.5°	442.1	437.6	437.6	437.6	433.0	433.0	433.0	424.0	415.0	401.5	383.4
70°	360.9	360.9	360.9	356.4	356.4	351.8	351.8	347.3	338.3	329.3	306.7
72.5°	284.2	284.2	284.2	275.2	279.7	275.2	275.2	266.1	261.6	248.1	234.6
75°	216.5	216.5	212.0	212.0	207.5	203.0	203.0	198.5	194.0	184.9	171.4
77.5°	157.9	157.9	157.9	153.4	148.9	144.3	144.3	139.8	135.3	130.8	121.8
80°	108.3	108.3	108.3	108.3	103.8	99.2	99.2	94.7	94.7	90.2	81.2
82.5°	72.2	72.2	72.2	72.2	67.7	67.7	67.7	63.2	58.6	58.6	49.6
85°	49.6	49.6	45.1	45.1	45.1	45.1	40.6	40.6	36.1	31.6	31.6
87.5°	27.1	27.1	27.1	27.1	22.6	22.6	22.6	22.6	18.0	18.0	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3211.7	3211.7	3207.2	3193.7	3198.2	3193.7	3198.2	3193.7	3180.2	3193.7	3180.2
5°	3229.8	3234.3	3225.3	3207.2	3211.7	3207.2	3207.2	3202.7	3189.2	3198.2	3189.2
7.5°	3247.8	3243.3	3238.8	3220.8	3225.3	3220.8	3220.8	3211.7	3198.2	3207.2	3193.7
10°	3256.9	3256.9	3247.8	3229.8	3229.8	3225.3	3229.8	3225.3	3207.2	3220.8	3211.7
12.5°	3256.9	3252.3	3252.3	3229.8	3234.3	3229.8	3234.3	3225.3	3211.7	3220.8	3216.3
15°	3243.3	3243.3	3238.8	3216.3	3220.8	3220.8	3225.3	3216.3	3202.7	3216.3	3207.2
17.5°	3216.3	3216.3	3211.7	3193.7	3202.7	3202.7	3207.2	3198.2	3184.7	3193.7	3193.7
20°	3162.1	3166.6	3166.6	3153.1	3162.1	3162.1	3166.6	3162.1	3157.6	3162.1	3153.1
22.5°	3099.0	3108.0	3108.0	3094.5	3103.5	3103.5	3117.0	3112.5	3103.5	3108.0	3103.5
25°	3004.2	3013.3	3022.3	3013.3	3022.3	3022.3	3035.8	3031.3	3022.3	3031.3	3017.8
27.5°	2896.0	2900.5	2909.5	2900.5	2914.0	2909.5	2923.0	2918.5	2905.0	2918.5	2914.0
30°	2742.6	2760.7	2774.2	2760.7	2774.2	2774.2	2783.2	2778.7	2774.2	2769.7	2769.7
32.5°	2571.2	2589.2	2589.2	2584.7	2593.8	2593.8	2598.3	2589.2	2584.7	2589.2	2593.8
35°	2359.2	2368.2	2377.2	2372.7	2377.2	2381.7	2377.2	2381.7	2368.2	2372.7	2372.7
37.5°	2129.1	2138.2	2138.2	2124.6	2133.6	2133.6	2124.6	2124.6	2115.6	2124.6	2106.6
40°	1885.5	1876.5	1881.0	1872.0	1863.0	1863.0	1858.5	1840.4	1831.4	1835.9	1840.4
42.5°	1646.5	1646.5	1632.9	1610.4	1587.8	1587.8	1574.3	1565.3	1547.2	1556.3	1551.7
45°	1443.5	1420.9	1402.9	1366.8	1353.3	1344.2	1321.7	1299.1	1290.1	1294.6	1290.1
47.5°	1249.5	1231.5	1186.4	1136.7	1123.2	1109.7	1082.6	1055.5	1046.5	1037.5	1037.5
50°	1087.1	1055.5	1005.9	951.8	929.2	906.7	870.6	843.5	825.5	830.0	830.0
52.5°	938.3	902.2	843.5	775.9	748.8	721.7	690.2	658.6	645.1	640.5	640.5
55°	807.4	766.8	708.2	631.5	609.0	577.4	536.8	500.7	482.7	478.2	487.2
57.5°	690.2	654.1	586.4	509.7	482.7	451.1	410.5	378.9	356.4	351.8	356.4
60°	595.4	545.8	487.2	415.0	378.9	351.8	306.7	279.7	257.1	248.1	252.6
62.5°	500.7	455.6	397.0	324.8	297.7	270.7	230.1	198.5	180.4	175.9	180.4
65°	428.5	383.4	329.3	266.1	239.1	212.0	175.9	144.3	130.8	126.3	130.8
67.5°	356.4	315.8	270.7	212.0	189.5	166.9	130.8	108.3	90.2	85.7	90.2
70°	288.7	252.6	207.5	166.9	144.3	126.3	99.2	76.7	63.2	58.6	63.2
72.5°	216.5	189.5	157.9	121.8	108.3	94.7	72.2	54.1	45.1	40.6	45.1
75°	157.9	135.3	112.8	85.7	76.7	67.7	49.6	36.1	31.6	27.1	31.6
77.5°	108.3	94.7	76.7	58.6	49.6	45.1	31.6	27.1	22.6	18.0	18.0
80°	72.2	63.2	49.6	40.6	36.1	31.6	22.6	18.0	13.5	13.5	13.5
82.5°	45.1	36.1	31.6	22.6	18.0	18.0	13.5	9.0	9.0	9.0	9.0
85°	27.1	22.6	18.0	13.5	9.0	9.0	4.5	4.5	4.5	4.5	4.5
87.5°	13.5	9.0	9.0	4.5	4.5	4.5	4.5	4.5	0.0	0.0	4.5
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3189.2	3180.2	3180.2	3184.7	3189.2	3193.7	3184.7	3180.2	3180.2	3193.7	3184.7
5°	3189.2	3184.7	3184.7	3184.7	3193.7	3198.2	3189.2	3184.7	3189.2	3202.7	3198.2
7.5°	3202.7	3193.7	3198.2	3198.2	3202.7	3211.7	3202.7	3198.2	3202.7	3216.3	3202.7
10°	3211.7	3202.7	3207.2	3202.7	3216.3	3220.8	3211.7	3207.2	3211.7	3229.8	3225.3
12.5°	3216.3	3211.7	3211.7	3207.2	3220.8	3225.3	3216.3	3211.7	3216.3	3229.8	3225.3
15°	3207.2	3202.7	3202.7	3202.7	3211.7	3220.8	3207.2	3202.7	3202.7	3216.3	3211.7
17.5°	3189.2	3180.2	3180.2	3180.2	3184.7	3189.2	3175.7	3171.1	3166.6	3180.2	3175.7
20°	3157.6	3148.6	3139.6	3139.6	3144.1	3144.1	3135.1	3121.5	3121.5	3126.0	3117.0
22.5°	3099.0	3094.5	3085.4	3080.9	3090.0	3085.4	3067.4	3053.9	3049.4	3053.9	3044.8
25°	3017.8	3008.8	3004.2	2999.7	3004.2	2999.7	2981.7	2963.6	2963.6	2963.6	2950.1
27.5°	2905.0	2896.0	2891.5	2891.5	2896.0	2887.0	2868.9	2850.9	2841.9	2841.9	2828.3
30°	2760.7	2760.7	2756.1	2751.6	2747.1	2747.1	2720.1	2702.0	2693.0	2697.5	2688.5
32.5°	2584.7	2580.2	2575.7	2562.2	2566.7	2562.2	2539.6	2526.1	2512.6	2503.5	2499.0
35°	2359.2	2359.2	2354.7	2354.7	2354.7	2350.2	2327.6	2314.1	2305.1	2300.5	2287.0
37.5°	2111.1	2106.6	2102.1	2102.1	2102.1	2102.1	2088.5	2075.0	2075.0	2070.5	2061.5
40°	1831.4	1835.9	1840.4	1835.9	1849.5	1863.0	1844.9	1835.9	1831.4	1844.9	1826.9
42.5°	1560.8	1556.3	1578.8	1583.3	1583.3	1605.9	1610.4	1614.9	1610.4	1619.4	1619.4
45°	1299.1	1294.6	1317.2	1326.2	1348.8	1375.8	1389.3	1411.9	1420.9	1429.9	1420.9
47.5°	1051.0	1069.1	1087.1	1109.7	1127.7	1172.8	1199.9	1222.4	1231.5	1245.0	1245.0
50°	843.5	861.6	893.2	911.2	933.8	987.9	1033.0	1064.6	1082.6	1096.1	1091.6
52.5°	649.6	681.1	721.7	739.8	771.4	834.5	884.1	920.2	942.8	956.3	960.8
55°	500.7	527.8	568.4	595.4	627.0	694.7	757.8	798.4	821.0	839.0	848.0
57.5°	369.9	401.5	446.6	469.1	505.2	581.9	636.0	685.7	712.7	735.3	739.8
60°	270.7	302.2	342.8	369.9	406.0	482.7	545.8	590.9	622.5	640.5	649.6
62.5°	194.0	225.5	266.1	293.2	324.8	392.4	455.6	500.7	532.3	554.8	568.4
65°	139.8	171.4	212.0	234.6	261.6	324.8	383.4	428.5	460.1	487.2	496.2
67.5°	103.8	126.3	162.4	184.9	212.0	261.6	311.3	351.8	383.4	406.0	415.0
70°	76.7	94.7	126.3	139.8	157.9	203.0	243.6	279.7	306.7	324.8	333.8
72.5°	54.1	67.7	90.2	103.8	117.3	153.4	184.9	212.0	230.1	248.1	257.1
75°	36.1	45.1	63.2	72.2	81.2	108.3	130.8	153.4	166.9	180.4	184.9
77.5°	22.6	31.6	45.1	49.6	58.6	72.2	90.2	103.8	112.8	121.8	130.8
80°	13.5	18.0	27.1	31.6	36.1	49.6	58.6	67.7	76.7	85.7	90.2
82.5°	9.0	13.5	18.0	18.0	22.6	27.1	36.1	45.1	49.6	54.1	58.6
85°	4.5	4.5	9.0	9.0	13.5	13.5	18.0	22.6	27.1	31.6	36.1
87.5°	4.5	4.5	4.5	4.5	9.0	9.0	13.5	13.5	13.5	18.0	18.0
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: P252739

CATALOG NUMBER: LD6B70D010TE EU6B60708027 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3175.7	3189.2	3175.7	3184.7	3180.2	3180.2	3175.7	3180.2
5°	3189.2	3207.2	3189.2	3202.7	3193.7	3193.7	3193.7	3198.2
7.5°	3202.7	3220.8	3207.2	3220.8	3216.3	3211.7	3211.7	3220.8
10°	3216.3	3229.8	3220.8	3234.3	3229.8	3225.3	3225.3	3234.3
12.5°	3216.3	3234.3	3225.3	3238.8	3234.3	3229.8	3229.8	3234.3
15°	3202.7	3225.3	3211.7	3225.3	3220.8	3216.3	3216.3	3225.3
17.5°	3162.1	3180.2	3171.1	3180.2	3180.2	3175.7	3180.2	3184.7
20°	3108.0	3121.5	3112.5	3121.5	3121.5	3112.5	3117.0	3121.5
22.5°	3031.3	3044.8	3035.8	3044.8	3040.3	3035.8	3035.8	3031.3
25°	2936.6	2954.6	2941.1	2950.1	2941.1	2932.1	2932.1	2936.6
27.5°	2819.3	2832.8	2814.8	2823.8	2814.8	2805.8	2805.8	2801.3
30°	2665.9	2670.4	2656.9	2665.9	2656.9	2652.4	2643.4	2643.4
32.5°	2481.0	2485.5	2472.0	2472.0	2462.9	2462.9	2444.9	2458.4
35°	2264.5	2269.0	2264.5	2259.9	2246.4	2241.9	2237.4	2237.4
37.5°	2038.9	2038.9	2025.4	2020.9	2011.9	2002.8	2007.3	1993.8
40°	1808.9	1804.4	1790.8	1795.3	1790.8	1777.3	1772.8	1768.3
42.5°	1592.3	1592.3	1578.8	1583.3	1574.3	1569.8	1556.3	1560.8
45°	1402.9	1402.9	1389.3	1389.3	1384.8	1371.3	1375.8	1366.8
47.5°	1231.5	1231.5	1227.0	1227.0	1213.4	1208.9	1208.9	1208.9
50°	1082.6	1082.6	1082.6	1082.6	1078.1	1073.6	1069.1	1073.6
52.5°	956.3	965.3	960.8	960.8	956.3	951.8	947.3	947.3
55°	843.5	848.0	848.0	852.6	848.0	843.5	848.0	843.5
57.5°	744.3	753.3	753.3	753.3	753.3	753.3	748.8	744.3
60°	658.6	663.1	663.1	667.6	667.6	667.6	663.1	663.1
62.5°	572.9	581.9	586.4	586.4	590.9	586.4	586.4	586.4
65°	505.2	514.2	518.8	514.2	518.8	518.8	514.2	514.2
67.5°	424.0	433.0	433.0	433.0	433.0	437.6	433.0	433.0
70°	342.8	351.8	347.3	351.8	351.8	351.8	351.8	351.8
72.5°	261.6	266.1	270.7	270.7	275.2	270.7	270.7	270.7
75°	189.5	198.5	198.5	198.5	198.5	203.0	203.0	203.0
77.5°	135.3	139.8	139.8	144.3	144.3	144.3	144.3	148.9
80°	94.7	94.7	99.2	99.2	103.8	103.8	103.8	103.8
82.5°	63.2	67.7	67.7	67.7	67.7	67.7	67.7	67.7
85°	36.1	40.6	40.6	40.6	40.6	45.1	45.1	45.1
87.5°	22.6	22.6	22.6	22.6	22.6	22.6	18.0	18.0
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)