

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: P252534

Luminaire Tested: **LD6B70D010TE EU6B60708040 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252534  
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 EU6B60708040 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6234.0 lumens  
Efficiency: N/A  
Efficacy: 78.5 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

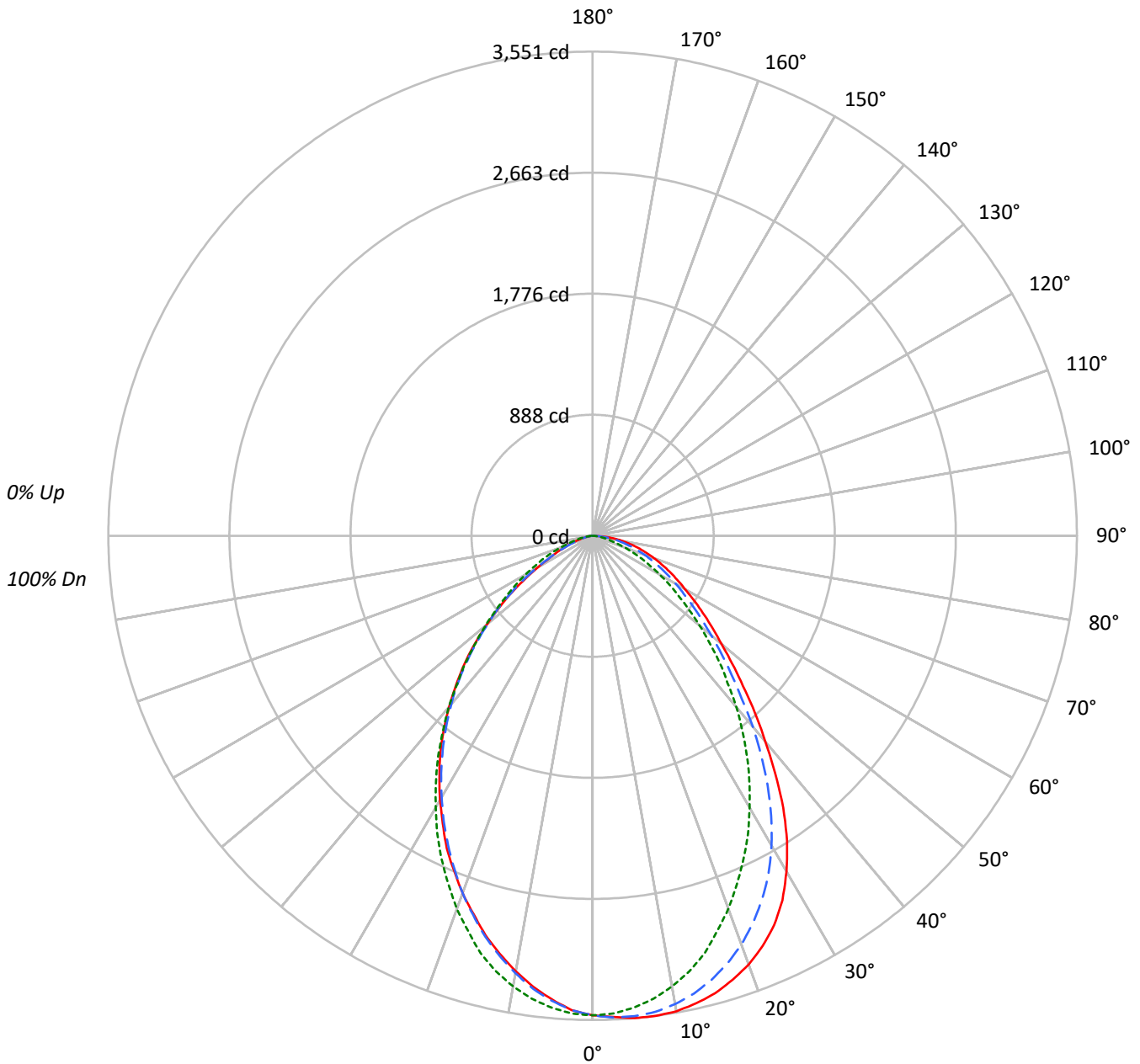
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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°	229445	229445	229445
5°	232561	227440	223602
10°	234601	222305	214866
15°	234567	214115	204875
20°	232298	202118	193641
25°	226796	188464	182137
30°	214158	173312	168528
35°	194125	157170	155218
40°	167648	139774	139356
45°	143766	121678	122582
50°	124932	104115	102623
55°	112231	87787	82225
60°	101971	73931	60543
65°	95757	61085	44490
70°	91312	47516	32618
75°	87418	34483	22157
80°	82580	23857	14690
85°	73134	14597	7336



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.9	5.3
10°-20°	901.0	14.5
20°-30°	1250.9	20.1
30°-40°	1295.6	20.8
40°-50°	1064.7	17.1
50°-60°	731.7	11.7
60°-70°	420.6	6.7
70°-80°	193.4	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°	2480.8	39.8
0°-40°	3776.5	60.6
0°-60°	5572.9	89.4
0°-90°	6234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6234.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3517	3517	3517	3517	3517	
5°	3551	3536	3473	3424	3414	338
15°	3473	3370	3170	3043	3033	978
25°	3151	2940	2618	2506	2530	1442
35°	2437	2237	1973	1915	1949	1511
45°	1558	1441	1319	1304	1329	1214
55°	987	894	772	728	723	888
65°	620	542	396	278	288	617
75°	347	274	137	88	88	367
85°	98	68	20	10	10	110
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°	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9
2.5°	3531.6	3560.9	3541.3	3536.4	3546.2	3546.2	3546.2	3531.6	3541.3	3526.7	3536.4
5°	3551.1	3575.5	3556.0	3546.2	3556.0	3560.9	3546.2	3536.4	3551.1	3531.6	3536.4
7.5°	3551.1	3575.5	3556.0	3551.1	3556.0	3556.0	3551.1	3531.6	3541.3	3521.8	3521.8
10°	3541.3	3560.9	3541.3	3531.6	3536.4	3531.6	3531.6	3507.1	3512.0	3487.6	3487.6
12.5°	3512.0	3536.4	3512.0	3502.2	3502.2	3502.2	3487.6	3468.1	3472.9	3443.6	3438.7
15°	3472.9	3492.5	3468.1	3458.3	3458.3	3453.4	3443.6	3414.3	3414.3	3385.0	3370.4
17.5°	3414.3	3433.9	3414.3	3399.7	3394.8	3385.0	3375.2	3345.9	3336.2	3302.0	3287.3
20°	3345.9	3360.6	3341.1	3326.4	3316.6	3306.9	3287.3	3258.0	3248.2	3214.1	3189.6
22.5°	3258.0	3277.6	3248.2	3233.6	3223.8	3209.2	3189.6	3160.3	3145.7	3101.7	3072.4
25°	3150.6	3160.3	3135.9	3121.2	3101.7	3091.9	3077.3	3038.2	3023.6	2974.7	2940.5
27.5°	3013.8	3023.6	2994.2	2984.5	2960.1	2950.3	2930.7	2896.6	2877.0	2828.2	2794.0
30°	2842.8	2852.6	2833.1	2818.4	2798.9	2779.3	2764.7	2730.5	2701.2	2652.3	2623.0
32.5°	2652.3	2667.0	2647.4	2627.9	2593.7	2598.6	2574.2	2540.0	2515.6	2471.6	2437.4
35°	2437.4	2447.2	2422.8	2417.9	2398.3	2378.8	2354.4	2329.9	2315.3	2266.4	2237.1
37.5°	2198.1	2222.5	2198.1	2178.5	2168.8	2154.1	2139.4	2105.3	2095.5	2066.2	2027.1
40°	1968.5	1983.1	1968.5	1948.9	1934.3	1934.3	1914.8	1895.2	1870.8	1841.5	1826.8
42.5°	1763.3	1753.6	1748.7	1738.9	1719.4	1714.5	1709.6	1685.2	1670.5	1641.2	1616.8
45°	1558.2	1563.1	1553.3	1548.4	1533.8	1524.0	1514.2	1494.7	1489.8	1460.5	1441.0
47.5°	1387.2	1382.3	1372.6	1372.6	1362.8	1353.0	1343.3	1328.6	1323.7	1299.3	1279.8
50°	1230.9	1235.8	1230.9	1226.0	1211.4	1206.5	1196.7	1187.0	1177.2	1152.8	1133.2
52.5°	1103.9	1099.0	1094.1	1094.1	1079.5	1074.6	1064.8	1055.1	1045.3	1020.9	1006.2
55°	986.7	986.7	981.8	976.9	962.3	957.4	952.5	942.7	928.1	908.5	893.9
57.5°	879.2	879.2	874.3	869.5	859.7	859.7	849.9	840.1	830.4	810.8	791.3
60°	781.5	786.4	781.5	776.6	766.9	766.9	762.0	747.3	742.5	718.0	703.4
62.5°	698.5	698.5	698.5	693.6	688.7	679.0	679.0	664.3	654.5	639.9	620.3
65°	620.3	620.3	620.3	615.5	605.7	600.8	595.9	586.1	576.4	561.7	542.2
67.5°	547.1	547.1	547.1	542.2	532.4	527.5	522.7	517.8	503.1	488.5	468.9
70°	478.7	478.7	473.8	468.9	464.0	459.2	454.3	444.5	434.7	415.2	400.5
72.5°	410.3	410.3	410.3	400.5	395.7	395.7	385.9	381.0	371.2	351.7	337.0
75°	346.8	341.9	341.9	337.0	332.2	327.3	322.4	317.5	302.8	293.1	273.5
77.5°	283.3	283.3	278.4	273.5	273.5	268.7	263.8	254.0	249.1	234.5	219.8
80°	219.8	219.8	219.8	219.8	214.9	210.0	210.0	200.3	195.4	180.7	171.0
82.5°	166.1	161.2	161.2	161.2	156.3	151.4	151.4	146.5	141.7	131.9	122.1
85°	97.7	92.8	92.8	92.8	87.9	87.9	83.0	83.0	78.2	68.4	68.4
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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9
2.5°	3526.7	3541.3	3521.8	3516.9	3536.4	3526.7	3521.8	3512.0	3516.9	3507.1	3492.5
5°	3521.8	3541.3	3516.9	3502.2	3526.7	3512.0	3502.2	3492.5	3492.5	3472.9	3463.2
7.5°	3507.1	3516.9	3492.5	3477.8	3492.5	3477.8	3468.1	3453.4	3448.5	3424.1	3409.4
10°	3468.1	3477.8	3448.5	3429.0	3443.6	3424.1	3409.4	3394.8	3385.0	3355.7	3336.2
12.5°	3414.3	3419.2	3385.0	3360.6	3370.4	3355.7	3331.3	3311.7	3302.0	3272.7	3248.2
15°	3341.1	3345.9	3306.9	3272.7	3282.4	3262.9	3233.6	3214.1	3199.4	3170.1	3135.9
17.5°	3253.1	3248.2	3204.3	3170.1	3175.0	3150.6	3121.2	3091.9	3072.4	3038.2	3013.8
20°	3155.4	3140.8	3091.9	3052.9	3057.7	3028.4	2994.2	2964.9	2940.5	2911.2	2877.0
22.5°	3033.3	3013.8	2969.8	2921.0	2925.9	2901.4	2852.6	2828.2	2803.8	2764.7	2735.4
25°	2901.4	2872.1	2828.2	2779.3	2779.3	2750.0	2710.9	2681.6	2657.2	2618.1	2583.9
27.5°	2745.1	2730.5	2671.9	2632.8	2627.9	2598.6	2564.4	2530.2	2500.9	2466.7	2432.5
30°	2574.2	2549.8	2505.8	2461.8	2452.1	2427.6	2393.4	2354.4	2334.8	2300.6	2271.3
32.5°	2393.4	2369.0	2320.2	2276.2	2271.3	2251.8	2222.5	2183.4	2163.9	2139.4	2119.9
35°	2188.3	2178.5	2129.7	2095.5	2095.5	2075.9	2046.6	2012.4	1997.8	1973.4	1948.9
37.5°	1992.9	1978.3	1934.3	1905.0	1905.0	1880.6	1851.3	1836.6	1821.9	1802.4	1787.8
40°	1787.8	1778.0	1743.8	1714.5	1719.4	1699.8	1680.3	1660.8	1651.0	1641.2	1626.6
42.5°	1597.3	1587.5	1563.1	1538.6	1538.6	1524.0	1504.5	1489.8	1480.0	1465.4	1460.5
45°	1426.3	1411.6	1392.1	1367.7	1367.7	1353.0	1343.3	1333.5	1328.6	1318.8	1304.2
47.5°	1260.2	1250.5	1230.9	1206.5	1206.5	1206.5	1187.0	1172.3	1172.3	1162.5	1157.6
50°	1118.6	1103.9	1089.3	1069.7	1069.7	1060.0	1045.3	1030.6	1030.6	1025.8	1016.0
52.5°	986.7	976.9	957.4	937.8	937.8	928.1	913.4	908.5	903.6	889.0	884.1
55°	874.3	864.6	849.9	825.5	820.6	815.7	801.1	791.3	786.4	771.8	771.8
57.5°	771.8	762.0	737.6	722.9	718.0	708.3	693.6	683.8	679.0	669.2	659.4
60°	683.8	669.2	649.6	630.1	625.2	615.5	600.8	591.0	586.1	566.6	556.8
62.5°	600.8	586.1	566.6	547.1	542.2	532.4	512.9	503.1	493.3	473.8	464.0
65°	522.7	508.0	488.5	468.9	459.2	454.3	434.7	420.1	410.3	395.7	376.1
67.5°	449.4	434.7	415.2	390.8	390.8	376.1	361.5	346.8	332.2	317.5	302.8
70°	381.0	366.3	346.8	327.3	322.4	312.6	298.0	278.4	268.7	249.1	234.5
72.5°	317.5	302.8	283.3	263.8	258.9	249.1	234.5	214.9	200.3	185.6	171.0
75°	258.9	244.2	224.7	210.0	205.2	195.4	180.7	161.2	146.5	136.8	122.1
77.5°	205.2	190.5	175.8	161.2	156.3	146.5	131.9	122.1	107.5	97.7	83.0
80°	156.3	146.5	131.9	122.1	117.2	107.5	97.7	83.0	73.3	63.5	58.6
82.5°	112.3	102.6	92.8	78.2	78.2	68.4	63.5	53.7	44.0	39.1	34.2
85°	63.5	53.7	48.8	44.0	39.1	39.1	34.2	29.3	24.4	19.5	19.5
87.5°	19.5	19.5	14.7	14.7	14.7	14.7	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9
2.5°	3492.5	3497.4	3487.6	3497.4	3487.6	3492.5	3482.7	3492.5	3482.7	3492.5	3472.9
5°	3458.3	3458.3	3443.6	3453.4	3443.6	3448.5	3429.0	3433.9	3424.1	3433.9	3414.3
7.5°	3399.7	3404.6	3380.1	3389.9	3375.2	3375.2	3360.6	3365.5	3350.8	3355.7	3341.1
10°	3331.3	3326.4	3302.0	3311.7	3292.2	3292.2	3277.6	3277.6	3258.0	3262.9	3243.4
12.5°	3233.6	3228.7	3199.4	3209.2	3189.6	3189.6	3175.0	3175.0	3155.4	3165.2	3145.7
15°	3121.2	3116.4	3087.1	3091.9	3072.4	3072.4	3052.9	3057.7	3043.1	3052.9	3033.3
17.5°	2994.2	2989.4	2960.1	2964.9	2940.5	2945.4	2930.7	2925.9	2916.1	2921.0	2906.3
20°	2862.4	2852.6	2823.3	2828.2	2818.4	2803.8	2794.0	2798.9	2789.1	2798.9	2784.2
22.5°	2725.6	2706.1	2681.6	2681.6	2671.9	2671.9	2657.2	2667.0	2647.4	2662.1	2652.3
25°	2569.3	2554.6	2535.1	2544.9	2525.3	2525.3	2510.7	2515.6	2505.8	2515.6	2505.8
27.5°	2417.9	2408.1	2378.8	2388.6	2373.9	2378.8	2364.1	2369.0	2364.1	2373.9	2364.1
30°	2256.7	2251.8	2232.3	2232.3	2227.4	2222.5	2217.6	2217.6	2212.7	2227.4	2217.6
32.5°	2105.3	2090.6	2071.1	2085.7	2061.3	2075.9	2066.2	2075.9	2066.2	2075.9	2071.1
35°	1948.9	1944.1	1919.6	1924.5	1919.6	1919.6	1914.8	1914.8	1914.8	1929.4	1929.4
37.5°	1782.9	1778.0	1763.3	1768.2	1758.4	1753.6	1753.6	1763.3	1763.3	1773.1	1773.1
40°	1621.7	1626.6	1611.9	1611.9	1607.0	1607.0	1607.0	1616.8	1611.9	1621.7	1616.8
42.5°	1460.5	1460.5	1445.8	1450.7	1445.8	1450.7	1450.7	1460.5	1460.5	1465.4	1460.5
45°	1309.1	1309.1	1304.2	1309.1	1299.3	1304.2	1299.3	1309.1	1304.2	1309.1	1309.1
47.5°	1157.6	1157.6	1157.6	1152.8	1152.8	1152.8	1152.8	1152.8	1147.9	1157.6	1152.8
50°	1016.0	1020.9	1016.0	1016.0	1011.1	1016.0	1011.1	1011.1	1001.3	1006.2	1006.2
52.5°	889.0	889.0	879.2	879.2	879.2	874.3	874.3	874.3	869.5	869.5	859.7
55°	766.9	766.9	757.1	757.1	752.2	747.3	742.5	742.5	727.8	727.8	713.1
57.5°	654.5	649.6	635.0	635.0	625.2	620.3	615.5	610.6	600.8	591.0	586.1
60°	552.0	542.2	532.4	527.5	517.8	508.0	498.2	488.5	478.7	473.8	468.9
62.5°	454.3	439.6	429.8	425.0	415.2	400.5	390.8	381.0	371.2	366.3	356.6
65°	366.3	351.7	337.0	332.2	322.4	312.6	298.0	288.2	278.4	273.5	273.5
67.5°	288.2	273.5	254.0	254.0	244.2	234.5	224.7	214.9	210.0	214.9	214.9
70°	214.9	205.2	190.5	185.6	175.8	166.1	161.2	161.2	161.2	166.1	161.2
72.5°	161.2	146.5	136.8	131.9	127.0	122.1	122.1	122.1	117.2	122.1	122.1
75°	112.3	102.6	92.8	92.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9
77.5°	78.2	68.4	63.5	63.5	63.5	58.6	58.6	58.6	58.6	58.6	58.6
80°	48.8	48.8	44.0	44.0	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°	14.7	14.7	14.7	14.7	14.7	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: P252534

CATALOG NUMBER: LD6B70D010TE EU6B60708040 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9	3516.9
2.5°	3472.9	3487.6	3468.1	3482.7	3477.8	3472.9	3463.2	3482.7
5°	3414.3	3419.2	3399.7	3419.2	3414.3	3404.6	3394.8	3414.3
7.5°	3331.3	3345.9	3321.5	3341.1	3336.2	3326.4	3316.6	3336.2
10°	3238.5	3253.1	3233.6	3248.2	3248.2	3238.5	3223.8	3243.4
12.5°	3135.9	3145.7	3126.1	3145.7	3140.8	3131.0	3126.1	3140.8
15°	3023.6	3038.2	3018.7	3033.3	3028.4	3023.6	3018.7	3033.3
17.5°	2901.4	2916.1	2901.4	2916.1	2916.1	2901.4	2896.6	2906.3
20°	2779.3	2789.1	2774.4	2789.1	2784.2	2784.2	2774.4	2789.1
22.5°	2642.6	2657.2	2647.4	2657.2	2652.3	2652.3	2647.4	2657.2
25°	2505.8	2520.4	2505.8	2520.4	2515.6	2515.6	2505.8	2530.2
27.5°	2369.0	2378.8	2364.1	2383.7	2378.8	2369.0	2373.9	2378.8
30°	2222.5	2232.3	2222.5	2237.1	2237.1	2237.1	2227.4	2237.1
32.5°	2075.9	2090.6	2075.9	2090.6	2085.7	2085.7	2080.8	2090.6
35°	1929.4	1934.3	1924.5	1939.2	1939.2	1944.1	1934.3	1948.9
37.5°	1778.0	1782.9	1778.0	1782.9	1792.6	1778.0	1787.8	1792.6
40°	1621.7	1631.5	1626.6	1631.5	1631.5	1636.3	1631.5	1636.3
42.5°	1465.4	1475.1	1465.4	1480.0	1475.1	1475.1	1480.0	1480.0
45°	1304.2	1318.8	1309.1	1318.8	1323.7	1318.8	1318.8	1328.6
47.5°	1152.8	1162.5	1157.6	1162.5	1162.5	1162.5	1162.5	1172.3
50°	1001.3	1006.2	1006.2	1011.1	1011.1	1016.0	1006.2	1011.1
52.5°	849.9	859.7	859.7	859.7	854.8	859.7	859.7	859.7
55°	713.1	718.0	708.3	718.0	718.0	713.1	713.1	722.9
57.5°	581.3	581.3	581.3	581.3	581.3	576.4	581.3	581.3
60°	459.2	464.0	459.2	459.2	459.2	459.2	454.3	464.0
62.5°	356.6	356.6	351.7	356.6	356.6	356.6	361.5	361.5
65°	278.4	283.3	278.4	283.3	283.3	283.3	283.3	288.2
67.5°	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8
70°	166.1	166.1	166.1	171.0	166.1	166.1	166.1	171.0
72.5°	122.1	122.1	122.1	122.1	122.1	122.1	127.0	127.0
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)