

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: P252333

Luminaire Tested: **LD6B70D010TE EU6B60709050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60709050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5709.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

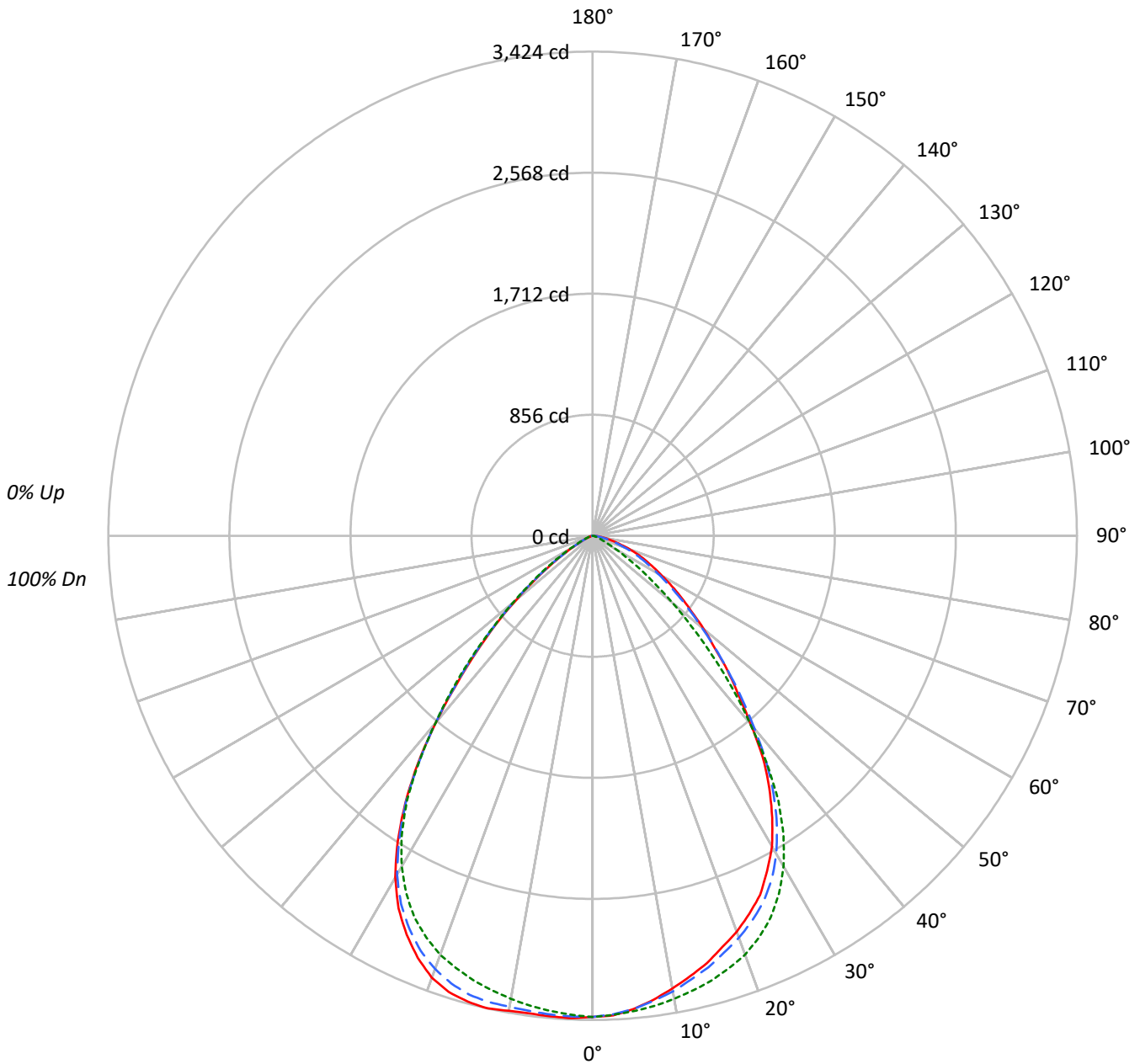
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	222007	222007	222007
5°	219895	220969	223392
10°	215363	220258	225975
15°	211245	219849	230393
20°	206867	218850	230833
25°	201767	214487	223953
30°	191023	203408	210225
35°	173481	182321	183954
40°	148052	147354	146655
45°	124372	110348	106934
50°	103861	74671	70916
55°	87412	45816	41607
60°	74009	24126	20916
65°	64080	12689	10158
70°	53315	7840	5494
75°	39373	5167	3100
80°	30883	3081	1540
85°	24627	3069	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	5.6
10°-20°	918.3	16.1
20°-30°	1356.0	23.8
30°-40°	1397.4	24.5
40°-50°	965.2	16.9
50°-60°	475.7	8.3
60°-70°	192.8	3.4
70°-80°	68.7	1.2
80°-90°	14.2	0.2
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°	2594.9	45.5
0°-40°	3992.4	69.9
0°-60°	5433.3	95.2
0°-90°	5709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5709.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3403	3403	3403	3403	3403	
5°	3358	3358	3374	3399	3411	317
15°	3128	3160	3255	3362	3411	881
25°	2803	2856	2980	3066	3111	1281
35°	2178	2232	2289	2302	2310	1350
45°	1348	1356	1196	1180	1159	1042
55°	768	740	403	378	366	694
65°	415	374	82	66	66	412
75°	156	132	20	12	12	175
85°	33	25	4	0	0	40
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°	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9
2.5°	3394.7	3382.4	3390.6	3374.1	3394.7	3374.1	3378.3	3382.4	3378.3	3382.4	3386.5
5°	3357.7	3345.4	3357.7	3337.2	3357.7	3345.4	3345.4	3349.5	3349.5	3353.6	3357.7
7.5°	3308.4	3296.1	3308.4	3287.8	3312.5	3300.2	3300.2	3308.4	3304.3	3308.4	3316.6
10°	3250.9	3234.4	3246.7	3234.4	3259.1	3242.6	3250.9	3250.9	3250.9	3263.2	3271.4
12.5°	3189.2	3172.8	3189.2	3168.7	3193.3	3181.0	3185.1	3197.4	3201.5	3209.8	3213.9
15°	3127.6	3107.0	3115.2	3102.9	3127.6	3115.2	3119.3	3135.8	3135.8	3148.1	3160.4
17.5°	3049.5	3033.0	3049.5	3033.0	3053.6	3045.4	3053.6	3065.9	3065.9	3078.2	3090.6
20°	2979.6	2963.2	2975.5	2963.2	2987.8	2975.5	2979.6	2996.0	3000.2	3012.5	3024.8
22.5°	2893.3	2881.0	2889.2	2876.9	2901.5	2893.3	2897.4	2913.8	2918.0	2926.2	2946.7
25°	2802.9	2778.2	2790.6	2782.3	2807.0	2794.7	2802.9	2819.3	2827.5	2839.9	2856.3
27.5°	2671.4	2659.0	2667.3	2667.3	2687.8	2675.5	2679.6	2696.0	2708.4	2720.7	2741.2
30°	2535.7	2515.2	2523.4	2527.5	2544.0	2535.7	2544.0	2560.4	2564.5	2581.0	2597.4
32.5°	2363.1	2354.9	2371.4	2363.1	2371.4	2371.4	2375.5	2387.8	2396.0	2404.2	2424.8
35°	2178.2	2161.8	2178.2	2170.0	2190.5	2178.2	2190.5	2202.9	2202.9	2219.3	2231.6
37.5°	1976.8	1956.3	1964.5	1964.5	1972.7	1968.6	1968.6	1989.1	1993.3	2005.6	2017.9
40°	1738.4	1730.2	1746.7	1742.6	1746.7	1746.7	1750.8	1763.1	1771.3	1775.4	1779.5
42.5°	1524.7	1528.8	1533.0	1533.0	1533.0	1533.0	1533.0	1549.4	1545.3	1557.6	1561.7
45°	1348.0	1331.6	1339.8	1335.7	1348.0	1335.7	1348.0	1360.3	1352.1	1364.5	1356.2
47.5°	1167.2	1167.2	1167.2	1163.1	1171.3	1167.2	1175.4	1179.5	1179.5	1179.5	1175.4
50°	1023.3	1011.0	1015.1	1015.1	1019.2	1015.1	1023.3	1027.5	1027.5	1019.2	1002.8
52.5°	883.6	879.5	879.5	887.7	887.7	883.6	883.6	883.6	883.6	871.3	863.1
55°	768.5	760.3	764.4	764.4	764.4	764.4	768.5	764.4	764.4	752.1	739.8
57.5°	665.8	657.6	657.6	657.6	661.7	657.6	657.6	657.6	653.5	641.1	624.7
60°	567.2	563.0	567.2	567.2	571.3	567.2	567.2	567.2	558.9	546.6	530.2
62.5°	485.0	485.0	485.0	489.1	489.1	485.0	485.0	480.8	476.7	460.3	443.9
65°	415.1	411.0	415.1	415.1	419.2	419.2	415.1	411.0	406.9	390.4	374.0
67.5°	345.2	341.1	345.2	345.2	349.3	345.2	345.2	345.2	332.9	324.7	308.2
70°	279.5	275.4	275.4	275.4	279.5	271.2	275.4	275.4	267.1	254.8	238.4
72.5°	213.7	213.7	213.7	213.7	213.7	213.7	209.6	209.6	201.4	189.1	180.8
75°	156.2	156.2	160.3	160.3	156.2	156.2	156.2	152.1	148.0	139.7	131.5
77.5°	115.1	115.1	115.1	115.1	111.0	111.0	111.0	106.9	102.7	98.6	90.4
80°	82.2	82.2	82.2	78.1	82.2	78.1	78.1	78.1	69.9	65.8	61.6
82.5°	57.5	53.4	53.4	53.4	53.4	53.4	53.4	49.3	49.3	45.2	41.1
85°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	28.8	24.7	24.7
87.5°	16.4	20.5	20.5	20.5	20.5	20.5	20.5	16.4	16.4	16.4	12.3
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°	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9
2.5°	3386.5	3386.5	3394.7	3382.4	3402.9	3390.6	3386.5	3407.0	3394.7	3390.6	3398.8
5°	3357.7	3361.8	3365.9	3357.7	3378.3	3365.9	3365.9	3386.5	3378.3	3374.1	3386.5
7.5°	3320.7	3324.8	3333.0	3328.9	3345.4	3337.2	3341.3	3361.8	3353.6	3353.6	3365.9
10°	3275.5	3283.7	3292.0	3292.0	3312.5	3304.3	3304.3	3328.9	3320.7	3324.8	3341.3
12.5°	3222.1	3234.4	3246.7	3250.9	3271.4	3259.1	3263.2	3292.0	3287.8	3292.0	3308.4
15°	3164.5	3181.0	3193.3	3193.3	3218.0	3205.6	3218.0	3246.7	3238.5	3255.0	3275.5
17.5°	3098.8	3115.2	3131.7	3135.8	3160.4	3152.2	3168.7	3197.4	3197.4	3205.6	3230.3
20°	3037.1	3057.7	3065.9	3078.2	3102.9	3098.8	3107.0	3139.9	3139.9	3152.2	3176.9
22.5°	2954.9	2975.5	2991.9	3004.3	3024.8	3024.8	3037.1	3065.9	3065.9	3074.1	3098.8
25°	2864.5	2889.2	2901.5	2913.8	2934.4	2930.3	2942.6	2967.3	2971.4	2979.6	3004.3
27.5°	2749.5	2770.0	2786.4	2794.7	2823.4	2807.0	2819.3	2848.1	2844.0	2852.2	2872.8
30°	2605.6	2626.2	2642.6	2642.6	2667.3	2667.3	2679.6	2691.9	2691.9	2700.1	2716.6
32.5°	2437.1	2461.8	2461.8	2474.1	2490.5	2474.1	2490.5	2507.0	2498.8	2511.1	2523.4
35°	2244.0	2256.3	2260.4	2260.4	2272.7	2268.6	2264.5	2276.8	2268.6	2289.2	2301.5
37.5°	2009.7	2026.1	2017.9	2026.1	2022.0	2009.7	2009.7	2030.2	2013.8	2017.9	2030.2
40°	1783.7	1783.7	1779.5	1759.0	1763.1	1750.8	1746.7	1750.8	1734.3	1730.2	1746.7
42.5°	1549.4	1545.3	1533.0	1504.2	1508.3	1487.7	1471.3	1471.3	1463.1	1459.0	1463.1
45°	1339.8	1327.5	1306.9	1274.0	1265.8	1249.4	1216.5	1208.3	1196.0	1196.0	1200.1
47.5°	1146.6	1130.2	1097.3	1060.3	1039.8	1019.2	986.4	974.0	953.5	945.3	953.5
50°	986.4	957.6	916.5	863.1	842.5	817.9	785.0	764.4	743.9	735.7	731.5
52.5°	838.4	797.3	756.2	690.4	674.0	649.3	604.1	583.6	563.0	546.6	546.6
55°	711.0	674.0	616.5	554.8	530.2	505.5	460.3	431.5	411.0	402.8	394.5
57.5°	595.9	554.8	501.4	435.6	411.0	386.3	341.1	312.3	291.8	279.5	271.2
60°	501.4	456.2	402.8	345.2	316.5	291.8	246.6	217.8	197.3	184.9	176.7
62.5°	411.0	374.0	320.6	267.1	242.5	217.8	180.8	152.1	131.5	123.3	111.0
65°	345.2	308.2	258.9	213.7	193.2	168.5	135.6	111.0	94.5	82.2	74.0
67.5°	279.5	250.7	209.6	168.5	148.0	131.5	102.7	82.2	65.8	57.5	53.4
70°	221.9	193.2	160.3	127.4	115.1	98.6	78.1	57.5	49.3	41.1	37.0
72.5°	164.4	143.8	119.2	94.5	82.2	74.0	53.4	45.2	32.9	28.8	24.7
75°	119.2	102.7	86.3	65.8	57.5	53.4	41.1	28.8	24.7	20.5	16.4
77.5°	82.2	74.0	57.5	45.2	41.1	37.0	28.8	20.5	16.4	12.3	12.3
80°	53.4	45.2	37.0	28.8	28.8	24.7	16.4	12.3	12.3	8.2	8.2
82.5°	32.9	28.8	24.7	20.5	16.4	16.4	12.3	8.2	8.2	4.1	4.1
85°	20.5	16.4	12.3	12.3	8.2	8.2	8.2	4.1	4.1	4.1	4.1
87.5°	8.2	8.2	8.2	4.1	4.1	4.1	4.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9
2.5°	3398.8	3398.8	3407.0	3394.7	3402.9	3402.9	3411.1	3394.7	3402.9	3407.0	3415.2
5°	3382.4	3386.5	3394.7	3390.6	3394.7	3394.7	3402.9	3382.4	3398.8	3398.8	3411.1
7.5°	3365.9	3365.9	3374.1	3370.0	3378.3	3382.4	3390.6	3374.1	3390.6	3390.6	3402.9
10°	3345.4	3345.4	3357.7	3353.6	3365.9	3370.0	3382.4	3365.9	3382.4	3386.5	3398.8
12.5°	3316.6	3320.7	3333.0	3333.0	3345.4	3353.6	3365.9	3357.7	3378.3	3382.4	3398.8
15°	3283.7	3292.0	3308.4	3304.3	3316.6	3328.9	3345.4	3333.0	3361.8	3370.0	3386.5
17.5°	3242.6	3250.9	3263.2	3263.2	3275.5	3283.7	3304.3	3296.1	3320.7	3324.8	3345.4
20°	3181.0	3193.3	3209.8	3205.6	3218.0	3226.2	3242.6	3234.4	3259.1	3267.3	3287.8
22.5°	3107.0	3115.2	3127.6	3127.6	3139.9	3148.1	3164.5	3152.2	3176.9	3181.0	3197.4
25°	3008.4	3016.6	3024.8	3028.9	3041.3	3045.4	3053.6	3045.4	3065.9	3070.0	3090.6
27.5°	2881.0	2885.1	2897.4	2897.4	2905.6	2909.7	2922.1	2905.6	2934.4	2934.4	2946.7
30°	2728.9	2724.8	2741.2	2733.0	2741.2	2741.2	2753.6	2745.3	2765.9	2757.7	2770.0
32.5°	2527.5	2535.7	2535.7	2527.5	2544.0	2539.9	2539.9	2531.6	2544.0	2548.1	2556.3
35°	2293.3	2305.6	2305.6	2309.7	2313.8	2301.5	2305.6	2280.9	2301.5	2305.6	2309.7
37.5°	2038.5	2026.1	2034.4	2022.0	2042.6	2017.9	2017.9	2001.5	2017.9	2017.9	2022.0
40°	1746.7	1742.6	1750.8	1742.6	1738.4	1734.3	1726.1	1713.8	1730.2	1722.0	1734.3
42.5°	1471.3	1467.2	1467.2	1459.0	1454.9	1454.9	1446.6	1438.4	1434.3	1434.3	1454.9
45°	1187.7	1196.0	1187.7	1183.6	1191.8	1183.6	1187.7	1171.3	1179.5	1171.3	1179.5
47.5°	949.4	953.5	945.3	937.0	949.4	937.0	937.0	924.7	941.1	941.1	932.9
50°	735.7	731.5	723.3	731.5	727.4	727.4	727.4	715.1	723.3	711.0	719.2
52.5°	542.5	538.4	538.4	534.3	538.4	534.3	534.3	530.2	530.2	526.1	530.2
55°	394.5	390.4	382.2	382.2	382.2	386.3	382.2	378.1	378.1	374.0	378.1
57.5°	267.1	258.9	258.9	258.9	258.9	254.8	254.8	250.7	254.8	250.7	254.8
60°	172.6	172.6	164.4	164.4	164.4	164.4	164.4	160.3	164.4	164.4	164.4
62.5°	106.9	106.9	102.7	98.6	102.7	98.6	98.6	98.6	102.7	98.6	102.7
65°	69.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
67.5°	49.3	45.2	45.2	45.2	45.2	45.2	45.2	41.1	45.2	45.2	45.2
70°	32.9	32.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
72.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
75°	16.4	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	12.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P252333

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9	3402.9
2.5°	3402.9	3407.0	3398.8	3402.9	3394.7	3402.9	3407.0	3415.2
5°	3394.7	3398.8	3390.6	3398.8	3390.6	3398.8	3402.9	3411.1
7.5°	3386.5	3394.7	3386.5	3394.7	3386.5	3394.7	3398.8	3407.0
10°	3386.5	3398.8	3390.6	3402.9	3390.6	3398.8	3407.0	3411.1
12.5°	3386.5	3398.8	3394.7	3402.9	3398.8	3407.0	3415.2	3423.5
15°	3378.3	3390.6	3382.4	3394.7	3390.6	3394.7	3411.1	3411.1
17.5°	3333.0	3345.4	3345.4	3353.6	3353.6	3365.9	3374.1	3382.4
20°	3275.5	3287.8	3283.7	3296.1	3296.1	3308.4	3316.6	3324.8
22.5°	3189.2	3205.6	3201.5	3213.9	3209.8	3218.0	3234.4	3230.3
25°	3078.2	3098.8	3094.7	3102.9	3098.8	3098.8	3107.0	3111.1
27.5°	2942.6	2954.9	2950.8	2959.1	2950.8	2959.1	2967.3	2971.4
30°	2765.9	2774.1	2770.0	2774.1	2770.0	2778.2	2782.3	2790.6
32.5°	2552.2	2564.5	2552.2	2560.4	2556.3	2556.3	2572.7	2564.5
35°	2297.4	2301.5	2305.6	2305.6	2297.4	2301.5	2309.7	2309.7
37.5°	2013.8	2034.4	2009.7	2022.0	2017.9	2017.9	2017.9	2030.2
40°	1717.9	1722.0	1713.8	1713.8	1713.8	1709.7	1726.1	1722.0
42.5°	1438.4	1442.5	1438.4	1426.1	1430.2	1430.2	1442.5	1426.1
45°	1167.2	1175.4	1171.3	1171.3	1163.1	1163.1	1167.2	1159.0
47.5°	924.7	932.9	920.6	924.7	916.5	924.7	920.6	928.8
50°	702.8	711.0	706.9	711.0	711.0	702.8	715.1	698.7
52.5°	526.1	530.2	526.1	521.9	517.8	517.8	526.1	521.9
55°	374.0	369.9	369.9	369.9	374.0	374.0	369.9	365.8
57.5°	250.7	250.7	246.6	246.6	250.7	242.5	246.6	242.5
60°	160.3	160.3	160.3	160.3	156.2	160.3	160.3	160.3
62.5°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
65°	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
67.5°	41.1	45.2	45.2	45.2	41.1	41.1	41.1	41.1
70°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
72.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
75°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	0.0	0.0	0.0
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)