

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: P252740

Luminaire Tested: **LD6B70D010TE EU6B60708030 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252740  
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 EU6B60708030 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

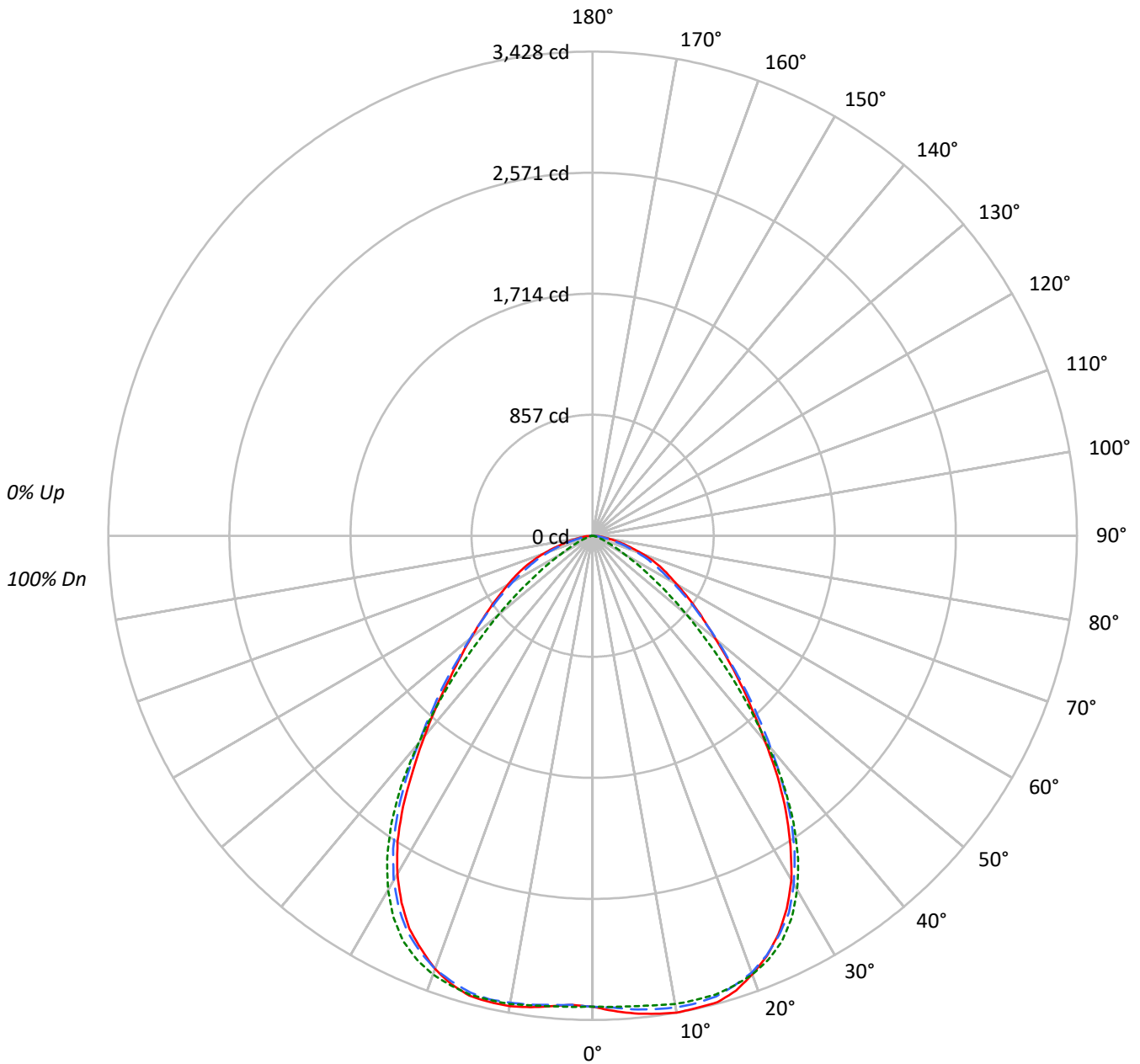
Lumens per Lamp: N/A  
Luminaire Lumens: 6617.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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



TEST NUMBER: P252740

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBDW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P252740

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBDW1H

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

RF	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								
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°	217499	217499	217499
5°	222345	218946	218946
10°	227102	223041	223975
15°	230906	227083	227718
20°	229493	229493	226549
25°	224032	228099	220973
30°	212071	218113	208161
35°	190031	197541	186272
40°	161440	163450	157420
45°	136606	124861	131827
50°	115341	88058	113909
55°	101368	56849	100299
60°	89823	33834	90450
65°	82991	20377	82991
70°	71951	11693	70158
75°	57044	7134	53489
80°	42530	5297	40764
85°	38850	3518	35332



TEST NUMBER: P252740

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBDW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.0	4.9
10°-20°	949.9	14.4
20°-30°	1428.6	21.6
30°-40°	1502.1	22.7
40°-50°	1122.1	17.0
50°-60°	698.6	10.6
60°-70°	397.3	6.0
70°-80°	163.6	2.5
80°-90°	33.8	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°	2699.5	40.8
0°-40°	4201.6	63.5
0°-60°	6022.3	91.0
0°-90°	6617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6617.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3334	3334	3334	3334	3334	
5°	3395	3367	3343	3334	3343	325
15°	3419	3376	3362	3348	3372	961
25°	3112	3122	3169	3098	3070	1425
35°	2386	2447	2480	2410	2339	1481
45°	1481	1514	1353	1485	1429	1147
55°	891	872	500	858	882	802
65°	538	481	132	481	538	529
75°	226	179	28	174	212	246
85°	52	33	5	28	47	58
90°	0	0	0	0	0	



TEST NUMBER: P252740

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBDW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8
2.5°	3366.8	3362.1	3366.8	3357.4	3352.6	3352.6	3357.4	3347.9	3343.2	3347.9	3343.2
5°	3395.1	3385.7	3390.4	3385.7	3376.2	3376.2	3380.9	3366.8	3366.8	3371.5	3366.8
7.5°	3413.9	3413.9	3413.9	3404.5	3399.8	3395.1	3404.5	3390.4	3385.7	3385.7	3380.9
10°	3428.1	3423.4	3428.1	3418.7	3409.2	3404.5	3413.9	3404.5	3395.1	3404.5	3390.4
12.5°	3423.4	3423.4	3423.4	3418.7	3409.2	3404.5	3413.9	3399.8	3395.1	3399.8	3390.4
15°	3418.7	3404.5	3409.2	3404.5	3390.4	3390.4	3395.1	3380.9	3371.5	3385.7	3376.2
17.5°	3376.2	3366.8	3371.5	3362.1	3352.6	3347.9	3352.6	3347.9	3338.5	3347.9	3338.5
20°	3305.5	3305.5	3310.2	3300.8	3291.3	3286.6	3296.1	3286.6	3277.2	3291.3	3291.3
22.5°	3220.6	3220.6	3220.6	3215.9	3211.2	3211.2	3211.2	3206.5	3201.8	3211.2	3215.9
25°	3112.2	3107.4	3112.2	3116.9	3112.2	3107.4	3112.2	3112.2	3102.7	3121.6	3121.6
27.5°	2975.4	2975.4	2984.8	2980.1	2980.1	2975.4	2984.8	2984.8	2980.1	2994.3	3008.4
30°	2815.1	2805.7	2815.1	2815.1	2819.8	2819.8	2824.5	2824.5	2824.5	2838.7	2848.1
32.5°	2607.6	2612.3	2626.5	2621.8	2617.0	2631.2	2631.2	2640.6	2645.3	2654.8	2659.5
35°	2386.0	2390.7	2390.7	2395.4	2404.9	2395.4	2419.0	2414.3	2419.0	2437.9	2447.3
37.5°	2150.2	2136.1	2159.7	2150.2	2154.9	2154.9	2164.4	2169.1	2183.2	2206.8	2206.8
40°	1895.6	1900.3	1909.7	1914.5	1919.2	1919.2	1919.2	1933.3	1938.0	1966.3	1961.6
42.5°	1674.0	1674.0	1683.4	1688.1	1688.1	1688.1	1688.1	1702.3	1711.7	1721.1	1730.6
45°	1480.6	1466.5	1475.9	1475.9	1485.4	1480.6	1490.1	1499.5	1504.2	1518.4	1513.6
47.5°	1296.7	1292.0	1296.7	1301.4	1296.7	1301.4	1306.2	1310.9	1315.6	1315.6	1315.6
50°	1136.4	1136.4	1141.1	1145.8	1145.8	1145.8	1145.8	1150.6	1150.6	1160.0	1150.6
52.5°	1004.4	1009.1	1009.1	1004.4	1009.1	1009.1	1013.8	1013.8	1009.1	1009.1	994.9
55°	891.2	886.5	891.2	886.5	891.2	891.2	886.5	886.5	881.8	877.1	872.3
57.5°	782.8	782.8	782.8	782.8	778.0	782.8	778.0	773.3	773.3	763.9	749.7
60°	688.4	688.4	688.4	688.4	688.4	683.7	688.4	683.7	674.3	664.9	646.0
62.5°	608.3	603.6	608.3	603.6	603.6	598.9	598.9	594.1	584.7	575.3	556.4
65°	537.6	542.3	537.6	537.6	532.8	528.1	528.1	523.4	509.3	499.8	481.0
67.5°	462.1	457.4	457.4	457.4	452.7	452.7	452.7	443.2	433.8	419.7	400.8
70°	377.2	377.2	377.2	372.5	372.5	367.8	367.8	363.1	353.7	344.2	320.6
72.5°	297.1	297.1	297.1	287.6	292.4	287.6	287.6	278.2	273.5	259.3	245.2
75°	226.3	226.3	221.6	221.6	216.9	212.2	212.2	207.5	202.8	193.3	179.2
77.5°	165.0	165.0	165.0	160.3	155.6	150.9	150.9	146.2	141.5	136.7	127.3
80°	113.2	113.2	113.2	113.2	108.5	103.7	103.7	99.0	99.0	94.3	84.9
82.5°	75.4	75.4	75.4	75.4	70.7	70.7	70.7	66.0	61.3	61.3	51.9
85°	51.9	51.9	47.2	47.2	47.2	47.2	42.4	42.4	37.7	33.0	33.0
87.5°	28.3	28.3	28.3	28.3	23.6	23.6	23.6	23.6	18.9	18.9	14.1
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: P252740

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8
2.5°	3357.4	3357.4	3352.6	3338.5	3343.2	3338.5	3343.2	3338.5	3324.4	3338.5	3324.4
5°	3376.2	3380.9	3371.5	3352.6	3357.4	3352.6	3352.6	3347.9	3333.8	3343.2	3333.8
7.5°	3395.1	3390.4	3385.7	3366.8	3371.5	3366.8	3366.8	3357.4	3343.2	3352.6	3338.5
10°	3404.5	3404.5	3395.1	3376.2	3376.2	3371.5	3376.2	3371.5	3352.6	3366.8	3357.4
12.5°	3404.5	3399.8	3399.8	3376.2	3380.9	3376.2	3380.9	3371.5	3357.4	3366.8	3362.1
15°	3390.4	3390.4	3385.7	3362.1	3366.8	3366.8	3371.5	3362.1	3347.9	3362.1	3352.6
17.5°	3362.1	3362.1	3357.4	3338.5	3347.9	3347.9	3352.6	3343.2	3329.1	3338.5	3338.5
20°	3305.5	3310.2	3310.2	3296.1	3305.5	3305.5	3310.2	3305.5	3300.8	3305.5	3296.1
22.5°	3239.5	3248.9	3248.9	3234.8	3244.2	3244.2	3258.3	3253.6	3244.2	3248.9	3244.2
25°	3140.5	3149.9	3159.3	3149.9	3159.3	3159.3	3173.5	3168.7	3159.3	3168.7	3154.6
27.5°	3027.3	3032.0	3041.4	3032.0	3046.1	3041.4	3055.6	3050.9	3036.7	3050.9	3046.1
30°	2867.0	2885.8	2900.0	2885.8	2900.0	2900.0	2909.4	2904.7	2900.0	2895.3	2895.3
32.5°	2687.8	2706.6	2706.6	2701.9	2711.4	2711.4	2716.1	2706.6	2701.9	2706.6	2711.4
35°	2466.2	2475.6	2485.0	2480.3	2485.0	2489.7	2485.0	2489.7	2475.6	2480.3	2480.3
37.5°	2225.7	2235.1	2235.1	2221.0	2230.4	2230.4	2221.0	2221.0	2211.5	2221.0	2202.1
40°	1971.0	1961.6	1966.3	1956.9	1947.5	1947.5	1942.7	1923.9	1914.5	1919.2	1923.9
42.5°	1721.1	1721.1	1707.0	1683.4	1659.8	1659.8	1645.7	1636.2	1617.4	1626.8	1622.1
45°	1508.9	1485.4	1466.5	1428.8	1414.6	1405.2	1381.6	1358.0	1348.6	1353.3	1348.6
47.5°	1306.2	1287.3	1240.1	1188.3	1174.1	1160.0	1131.7	1103.4	1094.0	1084.5	1084.5
50°	1136.4	1103.4	1051.5	994.9	971.4	947.8	910.1	881.8	862.9	867.6	867.6
52.5°	980.8	943.1	881.8	811.0	782.8	754.5	721.5	688.4	674.3	669.6	669.6
55°	844.1	801.6	740.3	660.2	636.6	603.6	561.1	523.4	504.5	499.8	509.3
57.5°	721.5	683.7	613.0	532.8	504.5	471.5	429.1	396.1	372.5	367.8	372.5
60°	622.4	570.6	509.3	433.8	396.1	367.8	320.6	292.4	268.8	259.3	264.1
62.5°	523.4	476.3	415.0	339.5	311.2	282.9	240.5	207.5	188.6	183.9	188.6
65°	448.0	400.8	344.2	278.2	249.9	221.6	183.9	150.9	136.7	132.0	136.7
67.5°	372.5	330.1	282.9	221.6	198.0	174.5	136.7	113.2	94.3	89.6	94.3
70°	301.8	264.1	216.9	174.5	150.9	132.0	103.7	80.2	66.0	61.3	66.0
72.5°	226.3	198.0	165.0	127.3	113.2	99.0	75.4	56.6	47.2	42.4	47.2
75°	165.0	141.5	117.9	89.6	80.2	70.7	51.9	37.7	33.0	28.3	33.0
77.5°	113.2	99.0	80.2	61.3	51.9	47.2	33.0	28.3	23.6	18.9	18.9
80°	75.4	66.0	51.9	42.4	37.7	33.0	23.6	18.9	14.1	14.1	14.1
82.5°	47.2	37.7	33.0	23.6	18.9	18.9	14.1	9.4	9.4	9.4	9.4
85°	28.3	23.6	18.9	14.1	9.4	9.4	4.7	4.7	4.7	4.7	4.7
87.5°	14.1	9.4	9.4	4.7	4.7	4.7	4.7	4.7	0.0	0.0	4.7
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: P252740

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8
2.5°	3333.8	3324.4	3324.4	3329.1	3333.8	3338.5	3329.1	3324.4	3324.4	3338.5	3329.1
5°	3333.8	3329.1	3329.1	3329.1	3338.5	3343.2	3333.8	3329.1	3333.8	3347.9	3343.2
7.5°	3347.9	3338.5	3343.2	3343.2	3347.9	3357.4	3347.9	3343.2	3347.9	3362.1	3352.6
10°	3357.4	3347.9	3352.6	3347.9	3362.1	3366.8	3357.4	3352.6	3357.4	3376.2	3371.5
12.5°	3362.1	3357.4	3357.4	3352.6	3366.8	3371.5	3362.1	3357.4	3362.1	3376.2	3371.5
15°	3352.6	3347.9	3347.9	3347.9	3357.4	3366.8	3352.6	3347.9	3347.9	3362.1	3357.4
17.5°	3333.8	3324.4	3324.4	3324.4	3329.1	3333.8	3319.6	3314.9	3310.2	3324.4	3319.6
20°	3300.8	3291.3	3281.9	3281.9	3286.6	3286.6	3277.2	3263.1	3263.1	3267.8	3258.3
22.5°	3239.5	3234.8	3225.3	3220.6	3230.0	3225.3	3206.5	3192.3	3187.6	3192.3	3182.9
25°	3154.6	3145.2	3140.5	3135.7	3140.5	3135.7	3116.9	3098.0	3098.0	3098.0	3083.9
27.5°	3036.7	3027.3	3022.6	3022.6	3027.3	3017.9	2999.0	2980.1	2970.7	2970.7	2956.6
30°	2885.8	2885.8	2881.1	2876.4	2871.7	2871.7	2843.4	2824.5	2815.1	2819.8	2810.4
32.5°	2701.9	2697.2	2692.5	2678.3	2683.1	2678.3	2654.8	2640.6	2626.5	2617.0	2612.3
35°	2466.2	2466.2	2461.4	2461.4	2461.4	2456.7	2433.1	2419.0	2409.6	2404.9	2390.7
37.5°	2206.8	2202.1	2197.4	2197.4	2197.4	2197.4	2183.2	2169.1	2169.1	2164.4	2154.9
40°	1914.5	1919.2	1923.9	1919.2	1933.3	1947.5	1928.6	1919.2	1914.5	1928.6	1909.7
42.5°	1631.5	1626.8	1650.4	1655.1	1655.1	1678.7	1683.4	1688.1	1683.4	1692.8	1692.8
45°	1358.0	1353.3	1376.9	1386.3	1409.9	1438.2	1452.3	1475.9	1485.4	1494.8	1485.4
47.5°	1098.7	1117.5	1136.4	1160.0	1178.8	1226.0	1254.3	1277.9	1287.3	1301.4	1301.4
50°	881.8	900.6	933.6	952.5	976.1	1032.7	1079.8	1112.8	1131.7	1145.8	1141.1
52.5°	679.0	712.0	754.5	773.3	806.3	872.3	924.2	961.9	985.5	999.7	1004.4
55°	523.4	551.7	594.1	622.4	655.4	726.2	792.2	834.6	858.2	877.1	886.5
57.5°	386.7	419.7	466.8	490.4	528.1	608.3	664.9	716.7	745.0	768.6	773.3
60°	282.9	315.9	358.4	386.7	424.4	504.5	570.6	617.7	650.7	669.6	679.0
62.5°	202.8	235.8	278.2	306.5	339.5	410.2	476.3	523.4	556.4	580.0	594.1
65°	146.2	179.2	221.6	245.2	273.5	339.5	400.8	448.0	481.0	509.3	518.7
67.5°	108.5	132.0	169.8	193.3	221.6	273.5	325.4	367.8	400.8	424.4	433.8
70°	80.2	99.0	132.0	146.2	165.0	212.2	254.6	292.4	320.6	339.5	348.9
72.5°	56.6	70.7	94.3	108.5	122.6	160.3	193.3	221.6	240.5	259.3	268.8
75°	37.7	47.2	66.0	75.4	84.9	113.2	136.7	160.3	174.5	188.6	193.3
77.5°	23.6	33.0	47.2	51.9	61.3	75.4	94.3	108.5	117.9	127.3	136.7
80°	14.1	18.9	28.3	33.0	37.7	51.9	61.3	70.7	80.2	89.6	94.3
82.5°	9.4	14.1	18.9	18.9	23.6	28.3	37.7	47.2	51.9	56.6	61.3
85°	4.7	4.7	9.4	9.4	14.1	14.1	18.9	23.6	28.3	33.0	37.7
87.5°	4.7	4.7	4.7	4.7	9.4	9.4	14.1	14.1	14.1	18.9	18.9
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: P252740

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8
2.5°	3319.6	3333.8	3319.6	3329.1	3324.4	3324.4	3319.6	3324.4
5°	3333.8	3352.6	3333.8	3347.9	3338.5	3338.5	3338.5	3343.2
7.5°	3347.9	3366.8	3352.6	3366.8	3362.1	3357.4	3357.4	3366.8
10°	3362.1	3376.2	3366.8	3380.9	3376.2	3371.5	3371.5	3380.9
12.5°	3362.1	3380.9	3371.5	3385.7	3380.9	3376.2	3376.2	3380.9
15°	3347.9	3371.5	3357.4	3371.5	3366.8	3362.1	3362.1	3371.5
17.5°	3305.5	3324.4	3314.9	3324.4	3324.4	3319.6	3324.4	3329.1
20°	3248.9	3263.1	3253.6	3263.1	3263.1	3253.6	3258.3	3263.1
22.5°	3168.7	3182.9	3173.5	3182.9	3178.2	3173.5	3173.5	3168.7
25°	3069.7	3088.6	3074.4	3083.9	3074.4	3065.0	3065.0	3069.7
27.5°	2947.1	2961.3	2942.4	2951.8	2942.4	2933.0	2933.0	2928.3
30°	2786.8	2791.5	2777.4	2786.8	2777.4	2772.7	2763.2	2763.2
32.5°	2593.5	2598.2	2584.0	2584.0	2574.6	2574.6	2555.7	2569.9
35°	2367.1	2371.8	2367.1	2362.4	2348.3	2343.6	2338.8	2338.8
37.5°	2131.4	2131.4	2117.2	2112.5	2103.1	2093.6	2098.4	2084.2
40°	1890.9	1886.2	1872.0	1876.7	1872.0	1857.9	1853.2	1848.4
42.5°	1664.5	1664.5	1650.4	1655.1	1645.7	1641.0	1626.8	1631.5
45°	1466.5	1466.5	1452.3	1452.3	1447.6	1433.5	1438.2	1428.8
47.5°	1287.3	1287.3	1282.6	1282.6	1268.4	1263.7	1263.7	1263.7
50°	1131.7	1131.7	1131.7	1131.7	1127.0	1122.3	1117.5	1122.3
52.5°	999.7	1009.1	1004.4	1004.4	999.7	994.9	990.2	990.2
55°	881.8	886.5	886.5	891.2	886.5	881.8	886.5	881.8
57.5°	778.0	787.5	787.5	787.5	787.5	787.5	782.8	778.0
60°	688.4	693.2	693.2	697.9	697.9	697.9	693.2	693.2
62.5°	598.9	608.3	613.0	613.0	617.7	613.0	613.0	613.0
65°	528.1	537.6	542.3	537.6	542.3	542.3	537.6	537.6
67.5°	443.2	452.7	452.7	452.7	452.7	457.4	452.7	452.7
70°	358.4	367.8	363.1	367.8	367.8	367.8	367.8	367.8
72.5°	273.5	278.2	282.9	282.9	287.6	282.9	282.9	282.9
75°	198.0	207.5	207.5	207.5	207.5	212.2	212.2	212.2
77.5°	141.5	146.2	146.2	150.9	150.9	150.9	150.9	155.6
80°	99.0	99.0	103.7	103.7	108.5	108.5	108.5	108.5
82.5°	66.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7
85°	37.7	42.4	42.4	42.4	42.4	47.2	47.2	47.2
87.5°	23.6	23.6	23.6	23.6	23.6	23.6	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)