

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: P136245

Luminaire Tested: **LD6A10D010TE ERW6A10930 6LW111LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23359-R2)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERW6A10930 6LW111LI  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED SINGLE WALL WASH LUMINAIRE  
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER  
Light Source: (1) HIGH LUMEN LED 3000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

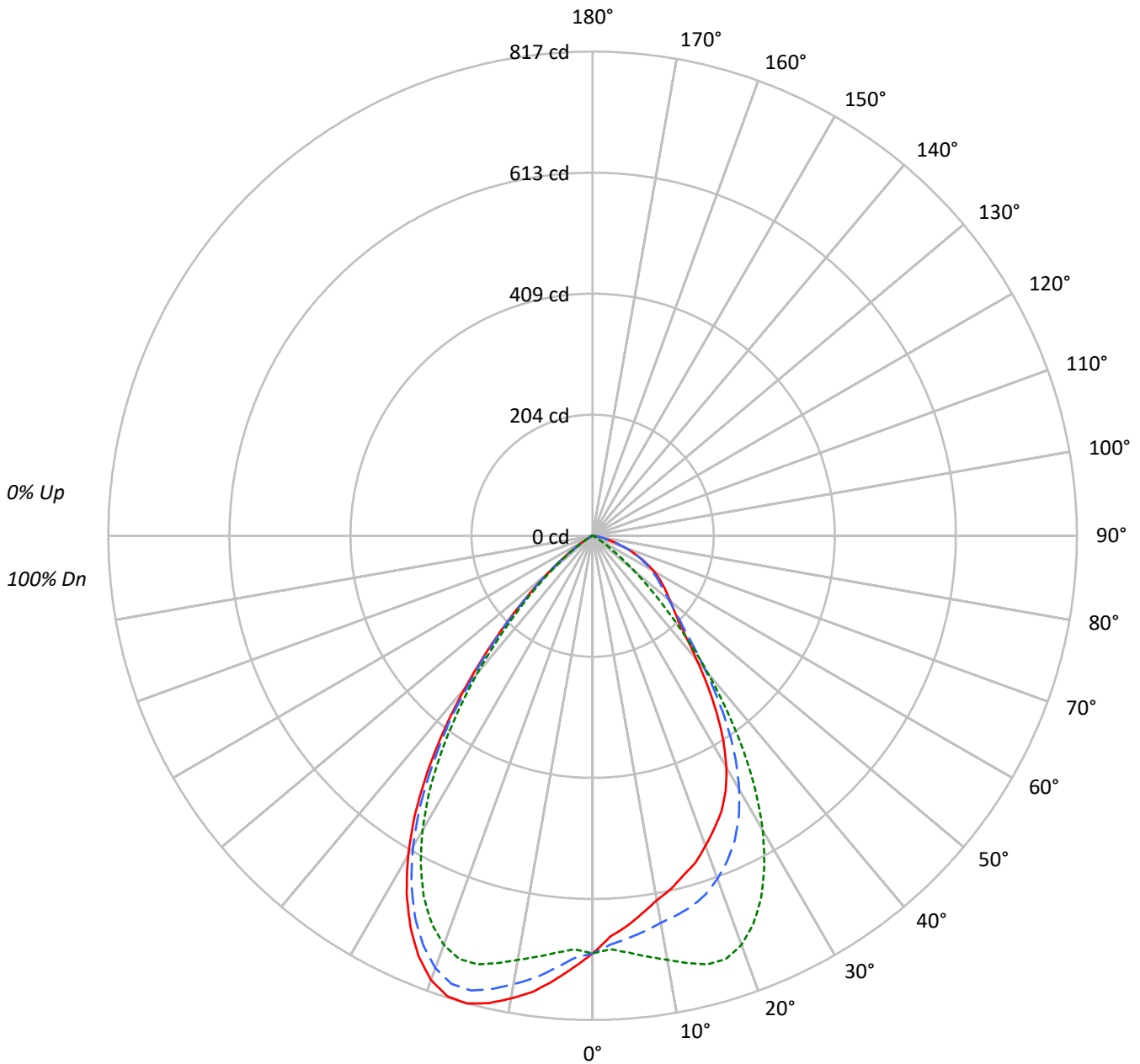
Lumens per Lamp: N/A  
Luminaire Lumens: 1105.3 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P136245

CATALOG NUMBER: LD6A10D010TE ERW6A10930 6LW111LI

### Luminous Intensity Polar Plot





TEST NUMBER: P136245

CATALOG NUMBER: LD6A10D010TE ERW6A10930 6LW111LI

**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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91								
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82								
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74								
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66								
5	86	76	69	64	84	75	69	64	73	68	63	72	67	63	70	66	62	60								
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55								
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	60	56	52	50								
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46								
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43								
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39								

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

	0°	90°	180°
0°	45975	45975	45975
5°	43308	46249	49340
10°	41365	48135	52514
15°	40046	50562	55189
20°	38657	50995	55362
25°	36964	48460	52362
30°	34005	43249	46857
35°	29062	35386	38651
40°	23242	25652	28394
45°	18942	16257	18213
50°	17325	8932	10139
55°	16459	3663	4288
60°	15501	1331	1331
65°	13847	726	602
70°	11102	591	458
75°	7335	403	403
80°	3832	301	301
85°	1797	0	0



TEST NUMBER: P136245

CATALOG NUMBER: LD6A10D010TE ERW6A10930 6LW111LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	6.2
10°-20°	203.8	18.4
20°-30°	293.2	26.5
30°-40°	269.4	24.4
40°-50°	154.7	14.0
50°-60°	68.3	6.2
60°-70°	33.6	3.0
70°-80°	12.9	1.2
80°-90°	1.5	0.1
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°	565.0	51.1
0°-40°	834.4	75.5
0°-60°	1057.4	95.7
0°-90°	1105.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	705	705	705	705	705	
5°	661	682	706	733	753	62
15°	593	647	749	794	817	167
25°	514	567	673	709	727	235
35°	365	400	444	470	485	226
45°	205	214	176	193	197	163
55°	145	138	32	35	38	129
65°	90	86	5	3	4	88
75°	29	31	2	2	2	33
85°	2	2	0	0	0	4
90°	0	0	0	0	0	



TEST NUMBER: P136245

CATALOG NUMBER: LD6A10D010TE ERW6A10930 6LW111LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7
2.5°	677.1	681.1	677.1	682.6	685.7	687.3	685.7	681.8	687.3	690.4	689.7
5°	661.3	664.5	661.3	666.8	670.8	674.7	673.2	670.8	677.1	681.8	682.6
7.5°	642.5	646.5	644.1	649.6	654.3	659.0	659.0	658.2	666.1	673.2	675.6
10°	624.4	627.5	626.0	631.5	637.0	642.5	644.1	644.9	653.5	663.0	668.5
12.5°	610.3	611.8	610.3	616.5	622.0	628.4	631.5	633.1	644.1	655.8	663.0
15°	592.9	596.9	595.3	601.6	607.9	615.0	618.9	622.0	633.9	647.2	657.5
17.5°	578.0	579.5	578.0	585.0	590.5	598.4	603.1	607.1	619.6	634.6	645.6
20°	556.8	559.9	559.2	565.4	571.7	578.8	583.5	587.4	600.8	615.8	628.4
22.5°	535.6	538.7	538.7	545.0	549.7	557.6	561.4	565.4	578.0	593.8	604.8
25°	513.5	515.9	515.1	520.6	526.1	534.0	537.1	541.1	552.8	567.0	577.2
27.5°	486.0	487.5	489.1	493.9	497.8	504.9	507.2	511.1	520.6	534.0	543.4
30°	451.4	452.9	455.3	459.3	462.4	469.5	471.0	474.2	483.6	494.6	503.3
32.5°	410.5	411.3	415.2	418.3	422.3	427.1	430.9	431.7	438.8	449.8	456.2
35°	364.9	365.6	369.6	372.0	375.9	380.6	383.7	384.6	390.9	399.5	403.5
37.5°	317.7	322.4	321.7	324.0	327.9	331.9	335.0	335.0	339.8	346.8	348.4
40°	272.9	275.2	277.6	279.2	282.3	285.5	287.8	287.8	291.0	295.7	295.7
42.5°	234.4	238.3	238.3	239.9	242.2	245.4	246.9	246.1	247.7	250.1	248.5
45°	205.3	206.8	207.7	209.9	210.8	213.9	214.7	213.2	213.9	213.9	209.2
47.5°	186.4	186.4	186.4	187.9	188.7	191.1	191.1	188.7	187.9	187.2	180.8
50°	170.7	170.7	171.4	173.0	173.8	174.6	174.6	171.4	170.7	167.5	158.8
52.5°	157.3	158.1	158.1	159.6	160.5	161.2	160.5	157.3	155.0	151.7	141.6
55°	144.7	145.5	146.2	147.8	147.8	147.8	147.1	143.9	141.6	137.6	127.4
57.5°	132.1	132.9	132.9	134.5	135.2	135.2	134.5	131.4	129.0	125.9	114.8
60°	118.8	118.8	119.5	121.1	121.1	121.9	121.1	118.8	116.4	112.5	103.0
62.5°	103.8	104.6	105.4	106.9	107.8	107.8	107.8	105.4	103.8	100.7	91.2
65°	89.7	89.7	90.4	92.0	92.0	94.4	92.8	91.2	89.7	86.5	78.7
67.5°	73.2	73.9	73.9	75.5	76.3	77.1	77.1	75.5	74.7	72.3	65.3
70°	58.2	58.2	58.9	59.8	60.6	61.3	61.3	60.6	59.8	57.4	51.9
72.5°	42.5	43.2	43.2	44.1	45.6	46.4	46.4	46.4	44.8	43.2	39.3
75°	29.1	29.9	29.9	30.7	31.5	32.2	32.2	32.2	31.5	30.7	27.5
77.5°	18.1	18.1	18.9	18.9	19.6	20.5	21.2	21.2	20.5	19.6	18.1
80°	10.2	10.2	11.0	11.0	11.0	11.8	12.6	12.6	12.6	11.8	10.2
82.5°	5.5	5.5	5.5	5.5	5.5	6.3	6.3	6.3	6.3	6.3	5.5
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P136245

CATALOG NUMBER: LD6A10D010TE ERW6A10930 6LW111LI

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7
2.5°	689.7	695.2	699.1	692.8	698.3	703.8	710.2	698.3	709.3	703.0	705.4
5°	685.7	692.1	697.5	693.6	700.7	707.8	716.4	706.2	718.8	714.0	718.0
7.5°	680.2	688.9	696.8	695.2	704.7	714.0	725.0	716.4	729.8	727.4	732.1
10°	675.6	687.3	697.5	697.5	710.2	721.1	732.9	726.6	742.4	740.0	746.3
12.5°	672.3	687.3	700.7	703.0	718.0	730.5	744.7	738.4	755.7	753.4	760.5
15°	669.2	686.6	702.3	707.0	723.5	738.4	753.4	748.6	766.7	764.4	771.5
17.5°	659.0	679.4	696.8	703.0	721.1	736.9	752.6	748.6	766.7	764.4	771.5
20°	641.7	662.2	681.1	688.1	706.2	722.7	737.6	734.5	752.6	750.2	756.5
22.5°	619.6	639.4	657.5	664.5	681.8	696.8	711.7	708.5	725.9	721.9	729.0
25°	589.0	609.5	626.7	632.2	648.0	663.0	676.3	673.2	689.7	684.9	692.1
27.5°	557.6	572.5	586.7	591.4	605.5	618.1	630.7	627.5	643.2	637.7	644.9
30°	515.1	526.9	539.5	541.8	555.2	565.4	576.4	574.1	587.4	582.7	589.0
32.5°	465.5	475.8	484.4	485.3	496.2	504.9	514.3	512.7	524.5	520.6	525.3
35°	411.3	417.6	423.1	422.3	430.9	437.2	445.9	444.3	455.3	451.4	456.2
37.5°	353.9	357.0	358.6	355.4	361.8	366.5	372.8	372.0	381.4	378.2	383.0
40°	298.1	298.1	295.7	290.2	294.1	296.5	301.2	301.2	308.3	305.1	309.1
42.5°	246.9	243.8	238.3	230.4	231.2	234.4	234.4	234.4	239.9	236.8	243.8
45°	205.3	198.2	189.6	179.3	176.2	177.7	176.2	176.2	180.1	177.7	183.2
47.5°	173.0	164.3	149.5	136.9	131.4	130.5	128.2	128.2	130.5	130.5	132.9
50°	148.6	136.0	118.0	103.0	95.2	92.8	89.7	88.0	90.4	89.7	91.2
52.5°	129.0	113.3	92.0	74.7	66.8	61.3	58.9	55.8	56.6	56.6	57.4
55°	112.5	94.4	71.6	53.5	44.8	38.6	35.3	32.2	32.2	31.5	32.2
57.5°	99.9	81.0	58.2	40.1	30.7	24.4	21.2	18.1	17.3	17.3	17.3
60°	88.9	70.8	48.0	31.5	22.0	15.7	12.6	10.2	9.5	8.6	8.6
62.5°	77.8	61.3	40.9	26.0	16.5	11.8	8.6	6.3	5.5	4.7	4.7
65°	66.8	52.7	35.3	22.0	14.1	9.5	6.3	4.7	3.9	3.1	3.1
67.5°	55.1	43.2	29.9	18.1	11.8	7.9	5.5	3.9	3.1	2.4	2.4
70°	44.1	34.6	23.6	15.0	9.5	6.3	3.9	3.1	2.4	2.4	2.4
72.5°	33.0	26.0	18.1	11.0	7.1	4.7	3.1	2.4	1.6	1.6	1.6
75°	23.6	18.9	12.6	7.9	4.7	3.1	2.4	1.6	1.6	1.6	1.6
77.5°	15.0	11.8	7.9	4.7	3.1	1.6	1.6	0.8	0.8	0.8	0.8
80°	8.6	7.1	4.7	3.1	1.6	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	4.7	3.1	2.4	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0
85°	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.0	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: P136245

CATALOG NUMBER: LD6A10D010TE ERW6A10930 6LW111LI

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7
2.5°	711.7	710.2	715.6	718.0	716.4	713.3	723.5	725.9	718.8	721.9	721.9
5°	725.9	725.9	732.9	736.1	736.1	732.9	744.7	748.6	741.6	744.7	745.5
7.5°	741.6	741.6	750.2	754.1	755.0	752.6	764.4	767.5	762.8	766.0	766.7
10°	755.7	755.7	766.0	769.9	770.7	768.3	780.1	784.1	778.6	781.7	782.5
12.5°	770.7	771.5	781.7	785.6	785.6	783.2	795.1	799.0	792.7	796.6	795.8
15°	781.7	782.5	792.7	796.6	797.4	794.3	805.3	810.0	803.7	806.1	806.1
17.5°	780.9	781.7	791.1	795.1	795.1	792.7	802.1	807.7	801.3	803.7	802.9
20°	765.2	766.0	776.2	779.3	779.3	776.2	784.8	790.3	784.1	785.6	784.8
22.5°	736.9	737.6	747.1	750.2	751.0	747.1	755.7	762.0	755.0	755.7	755.0
25°	699.9	699.9	710.2	710.2	714.0	709.3	715.6	724.3	717.2	717.2	714.8
27.5°	652.0	652.0	662.2	662.2	666.8	662.2	672.3	676.3	670.0	669.2	669.2
30°	596.1	596.1	605.5	605.5	609.5	605.5	615.8	619.6	613.4	612.6	613.4
32.5°	532.4	532.4	541.8	541.1	545.8	542.6	552.1	555.2	550.5	548.1	549.7
35°	462.4	466.3	471.9	471.0	475.8	469.5	481.3	483.6	479.7	480.5	478.1
37.5°	388.5	392.4	396.4	396.4	400.2	398.7	405.8	408.1	405.0	405.8	403.5
40°	314.6	318.5	321.7	321.7	325.6	320.8	330.3	332.7	329.5	326.3	327.9
42.5°	244.6	248.5	251.6	250.9	254.8	254.0	259.5	261.1	258.7	258.0	256.4
45°	184.1	184.8	190.3	192.7	192.7	192.7	196.6	197.4	195.0	195.0	194.2
47.5°	132.9	134.5	138.4	140.0	140.7	140.0	141.6	144.7	142.4	142.4	143.1
50°	92.0	92.8	95.9	97.5	97.5	97.5	98.3	100.7	99.1	99.1	97.5
52.5°	58.9	58.9	61.3	62.1	62.1	62.1	62.9	64.4	62.9	63.7	64.4
55°	33.0	33.0	34.6	35.3	35.3	35.3	36.2	37.0	36.2	37.0	37.0
57.5°	17.3	17.3	18.1	18.1	18.9	18.9	18.9	19.6	19.6	19.6	19.6
60°	8.6	8.6	8.6	9.5	9.5	9.5	9.5	10.2	10.2	10.2	10.2
62.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.5	5.5	5.5	5.5
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	3.1	3.1
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	1.6	1.6
75°	0.8	1.6	1.6	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	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: P136245

CATALOG NUMBER: LD6A10D010TE ERW6A10930 6LW111LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	704.7	704.7	704.7	704.7
2.5°	715.6	716.4	729.8	729.0
5°	739.2	740.0	753.4	753.4
7.5°	760.5	761.2	775.4	776.2
10°	776.2	777.7	791.1	792.7
12.5°	791.1	791.1	804.5	807.7
15°	800.6	800.6	813.2	817.1
17.5°	797.4	797.4	810.0	814.7
20°	780.1	779.3	791.1	797.4
22.5°	750.2	751.0	760.5	767.5
25°	712.5	710.9	721.1	727.4
27.5°	665.3	666.1	672.3	679.4
30°	608.6	610.3	615.0	622.0
32.5°	545.0	547.3	550.5	557.6
35°	475.0	477.4	478.9	485.3
37.5°	399.5	402.6	403.5	409.7
40°	324.8	327.9	327.9	333.4
42.5°	254.8	257.1	256.4	261.1
45°	192.7	194.2	193.4	197.4
47.5°	140.7	142.4	140.7	143.9
50°	97.5	99.1	97.5	99.9
52.5°	62.9	63.7	62.1	64.4
55°	36.2	37.0	36.2	37.7
57.5°	20.5	19.6	18.9	20.5
60°	10.2	10.2	10.2	10.2
62.5°	5.5	5.5	5.5	5.5
65°	3.1	3.1	3.1	3.9
67.5°	3.1	3.1	3.1	3.1
70°	2.4	2.4	2.4	2.4
72.5°	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6
77.5°	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.8
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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















(END OF REPORT)