

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: P252440

Luminaire Tested: **LD6B10D010 EU6B10208027 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252440  
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: LD6B10D010 EU6B10208027 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS 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: 863.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

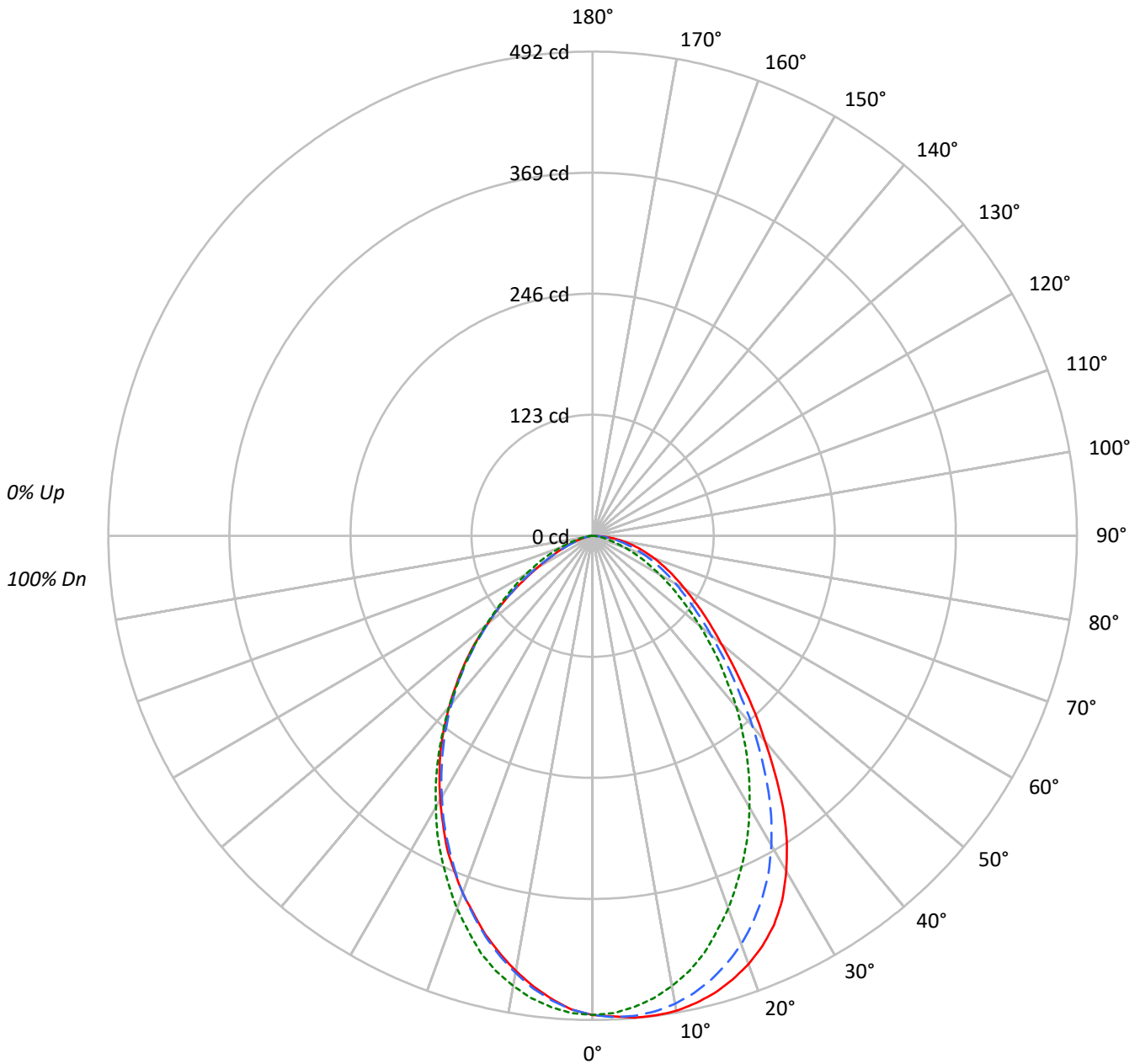
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252440

CATALOG NUMBER: LD6B10D010 EU6B10208027 6LBLWW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P252440

CATALOG NUMBER: LD6B10D010 EU6B10208027 6LBLWW1H

**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°	31766	31766	31766
5°	32195	31488	30957
10°	32474	30772	29745
15°	32474	29637	28361
20°	32159	27979	26806
25°	31393	26087	25216
30°	29644	23994	23331
35°	26872	21759	21488
40°	23208	19350	19290
45°	19901	16847	16967
50°	17295	14412	14209
55°	15537	12148	11386
60°	14118	10230	8377
65°	13261	8460	6159
70°	12647	6581	4521
75°	12099	4764	3075
80°	11421	3306	2029
85°	10105	2021	1048



TEST NUMBER: P252440

CATALOG NUMBER: LD6B10D010 EU6B10208027 6LBLWW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.5	5.3
10°-20°	124.7	14.5
20°-30°	173.2	20.1
30°-40°	179.4	20.8
40°-50°	147.4	17.1
50°-60°	101.3	11.7
60°-70°	58.2	6.7
70°-80°	26.8	3.1
80°-90°	6.5	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°	343.4	39.8
0°-40°	522.8	60.6
0°-60°	771.5	89.4
0°-90°	863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	487	487	487	487	487	
5°	492	490	481	474	473	47
15°	481	467	439	421	420	135
25°	436	407	362	347	350	200
35°	337	310	273	265	270	209
45°	216	200	183	180	184	168
55°	137	124	107	101	100	123
65°	86	75	55	38	40	85
75°	48	38	19	12	12	51
85°	14	10	3	1	1	15
90°	0	0	0	0	0	



TEST NUMBER: P252440

CATALOG NUMBER: LD6B10D010 EU6B10208027 6LBLWW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9
2.5°	488.9	492.9	490.2	489.6	490.9	490.9	490.9	488.9	490.2	488.2	489.6
5°	491.6	495.0	492.3	490.9	492.3	492.9	490.9	489.6	491.6	488.9	489.6
7.5°	491.6	495.0	492.3	491.6	492.3	492.3	491.6	488.9	490.2	487.5	487.5
10°	490.2	492.9	490.2	488.9	489.6	488.9	488.9	485.5	486.2	482.8	482.8
12.5°	486.2	489.6	486.2	484.8	484.8	484.8	482.8	480.1	480.8	476.7	476.0
15°	480.8	483.5	480.1	478.7	478.7	478.1	476.7	472.7	472.7	468.6	466.6
17.5°	472.7	475.4	472.7	470.6	470.0	468.6	467.3	463.2	461.8	457.1	455.1
20°	463.2	465.2	462.5	460.5	459.1	457.8	455.1	451.0	449.7	444.9	441.6
22.5°	451.0	453.7	449.7	447.6	446.3	444.3	441.6	437.5	435.5	429.4	425.3
25°	436.1	437.5	434.1	432.1	429.4	428.0	426.0	420.6	418.6	411.8	407.1
27.5°	417.2	418.6	414.5	413.2	409.8	408.4	405.7	401.0	398.3	391.5	386.8
30°	393.5	394.9	392.2	390.2	387.5	384.8	382.7	378.0	373.9	367.2	363.1
32.5°	367.2	369.2	366.5	363.8	359.1	359.7	356.4	351.6	348.2	342.2	337.4
35°	337.4	338.8	335.4	334.7	332.0	329.3	325.9	322.5	320.5	313.8	309.7
37.5°	304.3	307.7	304.3	301.6	300.2	298.2	296.2	291.4	290.1	286.0	280.6
40°	272.5	274.5	272.5	269.8	267.8	267.8	265.1	262.4	259.0	254.9	252.9
42.5°	244.1	242.8	242.1	240.7	238.0	237.3	236.7	233.3	231.3	227.2	223.8
45°	215.7	216.4	215.0	214.4	212.3	211.0	209.6	206.9	206.2	202.2	199.5
47.5°	192.0	191.4	190.0	190.0	188.7	187.3	186.0	183.9	183.2	179.9	177.2
50°	170.4	171.1	170.4	169.7	167.7	167.0	165.7	164.3	163.0	159.6	156.9
52.5°	152.8	152.1	151.5	151.5	149.4	148.8	147.4	146.1	144.7	141.3	139.3
55°	136.6	136.6	135.9	135.2	133.2	132.5	131.9	130.5	128.5	125.8	123.7
57.5°	121.7	121.7	121.0	120.4	119.0	119.0	117.7	116.3	115.0	112.2	109.5
60°	108.2	108.9	108.2	107.5	106.2	106.2	105.5	103.5	102.8	99.4	97.4
62.5°	96.7	96.7	96.7	96.0	95.3	94.0	94.0	92.0	90.6	88.6	85.9
65°	85.9	85.9	85.9	85.2	83.8	83.2	82.5	81.1	79.8	77.8	75.1
67.5°	75.7	75.7	75.7	75.1	73.7	73.0	72.4	71.7	69.6	67.6	64.9
70°	66.3	66.3	65.6	64.9	64.2	63.6	62.9	61.5	60.2	57.5	55.4
72.5°	56.8	56.8	56.8	55.4	54.8	54.8	53.4	52.7	51.4	48.7	46.7
75°	48.0	47.3	47.3	46.7	46.0	45.3	44.6	44.0	41.9	40.6	37.9
77.5°	39.2	39.2	38.5	37.9	37.9	37.2	36.5	35.2	34.5	32.5	30.4
80°	30.4	30.4	30.4	30.4	29.8	29.1	29.1	27.7	27.0	25.0	23.7
82.5°	23.0	22.3	22.3	22.3	21.6	21.0	21.0	20.3	19.6	18.3	16.9
85°	13.5	12.8	12.8	12.8	12.2	12.2	11.5	11.5	10.8	9.5	9.5
87.5°	4.1	4.1	4.7	4.7	4.1	4.1	4.1	4.1	4.1	3.4	3.4
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: P252440

CATALOG NUMBER: LD6B10D010 EU6B10208027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9
2.5°	488.2	490.2	487.5	486.9	489.6	488.2	487.5	486.2	486.9	485.5	483.5
5°	487.5	490.2	486.9	484.8	488.2	486.2	484.8	483.5	483.5	480.8	479.4
7.5°	485.5	486.9	483.5	481.5	483.5	481.5	480.1	478.1	477.4	474.0	472.0
10°	480.1	481.5	477.4	474.7	476.7	474.0	472.0	470.0	468.6	464.5	461.8
12.5°	472.7	473.3	468.6	465.2	466.6	464.5	461.2	458.5	457.1	453.1	449.7
15°	462.5	463.2	457.8	453.1	454.4	451.7	447.6	444.9	442.9	438.8	434.1
17.5°	450.3	449.7	443.6	438.8	439.5	436.1	432.1	428.0	425.3	420.6	417.2
20°	436.8	434.8	428.0	422.6	423.3	419.2	414.5	410.4	407.1	403.0	398.3
22.5°	419.9	417.2	411.1	404.4	405.0	401.7	394.9	391.5	388.1	382.7	378.7
25°	401.7	397.6	391.5	384.8	384.8	380.7	375.3	371.2	367.8	362.4	357.7
27.5°	380.0	378.0	369.9	364.5	363.8	359.7	355.0	350.3	346.2	341.5	336.7
30°	356.4	353.0	346.9	340.8	339.4	336.1	331.3	325.9	323.2	318.5	314.4
32.5°	331.3	328.0	321.2	315.1	314.4	311.7	307.7	302.3	299.6	296.2	293.5
35°	302.9	301.6	294.8	290.1	290.1	287.4	283.3	278.6	276.6	273.2	269.8
37.5°	275.9	273.9	267.8	263.7	263.7	260.3	256.3	254.2	252.2	249.5	247.5
40°	247.5	246.1	241.4	237.3	238.0	235.3	232.6	229.9	228.6	227.2	225.2
42.5°	221.1	219.8	216.4	213.0	213.0	211.0	208.3	206.2	204.9	202.9	202.2
45°	197.4	195.4	192.7	189.3	189.3	187.3	186.0	184.6	183.9	182.6	180.5
47.5°	174.5	173.1	170.4	167.0	167.0	167.0	164.3	162.3	162.3	160.9	160.3
50°	154.8	152.8	150.8	148.1	148.1	146.7	144.7	142.7	142.7	142.0	140.6
52.5°	136.6	135.2	132.5	129.8	129.8	128.5	126.4	125.8	125.1	123.1	122.4
55°	121.0	119.7	117.7	114.3	113.6	112.9	110.9	109.5	108.9	106.8	106.8
57.5°	106.8	105.5	102.1	100.1	99.4	98.0	96.0	94.7	94.0	92.6	91.3
60°	94.7	92.6	89.9	87.2	86.6	85.2	83.2	81.8	81.1	78.4	77.1
62.5°	83.2	81.1	78.4	75.7	75.1	73.7	71.0	69.6	68.3	65.6	64.2
65°	72.4	70.3	67.6	64.9	63.6	62.9	60.2	58.2	56.8	54.8	52.1
67.5°	62.2	60.2	57.5	54.1	54.1	52.1	50.0	48.0	46.0	44.0	41.9
70°	52.7	50.7	48.0	45.3	44.6	43.3	41.2	38.5	37.2	34.5	32.5
72.5°	44.0	41.9	39.2	36.5	35.8	34.5	32.5	29.8	27.7	25.7	23.7
75°	35.8	33.8	31.1	29.1	28.4	27.0	25.0	22.3	20.3	18.9	16.9
77.5°	28.4	26.4	24.3	22.3	21.6	20.3	18.3	16.9	14.9	13.5	11.5
80°	21.6	20.3	18.3	16.9	16.2	14.9	13.5	11.5	10.1	8.8	8.1
82.5°	15.6	14.2	12.8	10.8	10.8	9.5	8.8	7.4	6.1	5.4	4.7
85°	8.8	7.4	6.8	6.1	5.4	5.4	4.7	4.1	3.4	2.7	2.7
87.5°	2.7	2.7	2.0	2.0	2.0	2.0	1.4	1.4	1.4	1.4	1.4
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: P252440

CATALOG NUMBER: LD6B10D010 EU6B10208027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9
2.5°	483.5	484.2	482.8	484.2	482.8	483.5	482.1	483.5	482.1	483.5	480.8
5°	478.7	478.7	476.7	478.1	476.7	477.4	474.7	475.4	474.0	475.4	472.7
7.5°	470.6	471.3	467.9	469.3	467.3	467.3	465.2	465.9	463.9	464.5	462.5
10°	461.2	460.5	457.1	458.5	455.8	455.8	453.7	453.7	451.0	451.7	449.0
12.5°	447.6	447.0	442.9	444.3	441.6	441.6	439.5	439.5	436.8	438.2	435.5
15°	432.1	431.4	427.4	428.0	425.3	425.3	422.6	423.3	421.3	422.6	419.9
17.5°	414.5	413.8	409.8	410.4	407.1	407.7	405.7	405.0	403.7	404.4	402.3
20°	396.2	394.9	390.8	391.5	390.2	388.1	386.8	387.5	386.1	387.5	385.4
22.5°	377.3	374.6	371.2	371.2	369.9	369.9	367.8	369.2	366.5	368.5	367.2
25°	355.7	353.6	350.9	352.3	349.6	349.6	347.6	348.2	346.9	348.2	346.9
27.5°	334.7	333.4	329.3	330.7	328.6	329.3	327.3	328.0	327.3	328.6	327.3
30°	312.4	311.7	309.0	309.0	308.3	307.7	307.0	307.0	306.3	308.3	307.0
32.5°	291.4	289.4	286.7	288.7	285.4	287.4	286.0	287.4	286.0	287.4	286.7
35°	269.8	269.1	265.7	266.4	265.7	265.7	265.1	265.1	265.1	267.1	267.1
37.5°	246.8	246.1	244.1	244.8	243.4	242.8	242.8	244.1	244.1	245.5	245.5
40°	224.5	225.2	223.1	223.1	222.5	222.5	222.5	223.8	223.1	224.5	223.8
42.5°	202.2	202.2	200.2	200.8	200.2	200.8	200.8	202.2	202.2	202.9	202.2
45°	181.2	181.2	180.5	181.2	179.9	180.5	179.9	181.2	180.5	181.2	181.2
47.5°	160.3	160.3	160.3	159.6	159.6	159.6	159.6	159.6	158.9	160.3	159.6
50°	140.6	141.3	140.6	140.6	140.0	140.6	140.0	140.0	138.6	139.3	139.3
52.5°	123.1	123.1	121.7	121.7	121.7	121.0	121.0	121.0	120.4	120.4	119.0
55°	106.2	106.2	104.8	104.8	104.1	103.5	102.8	102.8	100.8	100.8	98.7
57.5°	90.6	89.9	87.9	87.9	86.6	85.9	85.2	84.5	83.2	81.8	81.1
60°	76.4	75.1	73.7	73.0	71.7	70.3	69.0	67.6	66.3	65.6	64.9
62.5°	62.9	60.9	59.5	58.8	57.5	55.4	54.1	52.7	51.4	50.7	49.4
65°	50.7	48.7	46.7	46.0	44.6	43.3	41.2	39.9	38.5	37.9	37.9
67.5°	39.9	37.9	35.2	35.2	33.8	32.5	31.1	29.8	29.1	29.8	29.8
70°	29.8	28.4	26.4	25.7	24.3	23.0	22.3	22.3	22.3	23.0	22.3
72.5°	22.3	20.3	18.9	18.3	17.6	16.9	16.9	16.9	16.2	16.9	16.9
75°	15.6	14.2	12.8	12.8	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	10.8	9.5	8.8	8.8	8.8	8.1	8.1	8.1	8.1	8.1	8.1
80°	6.8	6.8	6.1	6.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4
82.5°	4.1	4.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	2.0	2.0	2.0	2.0	2.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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: P252440

CATALOG NUMBER: LD6B10D010 EU6B10208027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9
2.5°	480.8	482.8	480.1	482.1	481.5	480.8	479.4	482.1
5°	472.7	473.3	470.6	473.3	472.7	471.3	470.0	472.7
7.5°	461.2	463.2	459.8	462.5	461.8	460.5	459.1	461.8
10°	448.3	450.3	447.6	449.7	449.7	448.3	446.3	449.0
12.5°	434.1	435.5	432.8	435.5	434.8	433.4	432.8	434.8
15°	418.6	420.6	417.9	419.9	419.2	418.6	417.9	419.9
17.5°	401.7	403.7	401.7	403.7	403.7	401.7	401.0	402.3
20°	384.8	386.1	384.1	386.1	385.4	385.4	384.1	386.1
22.5°	365.8	367.8	366.5	367.8	367.2	367.2	366.5	367.8
25°	346.9	348.9	346.9	348.9	348.2	348.2	346.9	350.3
27.5°	328.0	329.3	327.3	330.0	329.3	328.0	328.6	329.3
30°	307.7	309.0	307.7	309.7	309.7	309.7	308.3	309.7
32.5°	287.4	289.4	287.4	289.4	288.7	288.7	288.1	289.4
35°	267.1	267.8	266.4	268.4	268.4	269.1	267.8	269.8
37.5°	246.1	246.8	246.1	246.8	248.2	246.1	247.5	248.2
40°	224.5	225.8	225.2	225.8	225.8	226.5	225.8	226.5
42.5°	202.9	204.2	202.9	204.9	204.2	204.2	204.9	204.9
45°	180.5	182.6	181.2	182.6	183.2	182.6	182.6	183.9
47.5°	159.6	160.9	160.3	160.9	160.9	160.9	160.9	162.3
50°	138.6	139.3	139.3	140.0	140.0	140.6	139.3	140.0
52.5°	117.7	119.0	119.0	119.0	118.3	119.0	119.0	119.0
55°	98.7	99.4	98.0	99.4	99.4	98.7	98.7	100.1
57.5°	80.5	80.5	80.5	80.5	80.5	79.8	80.5	80.5
60°	63.6	64.2	63.6	63.6	63.6	63.6	62.9	64.2
62.5°	49.4	49.4	48.7	49.4	49.4	49.4	50.0	50.0
65°	38.5	39.2	38.5	39.2	39.2	39.2	39.2	39.9
67.5°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
70°	23.0	23.0	23.0	23.7	23.0	23.0	23.0	23.7
72.5°	16.9	16.9	16.9	16.9	16.9	16.9	17.6	17.6
75°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	8.1	8.1	8.1	8.8	8.1	8.8	8.1	8.1
80°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7
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)