

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: P274446

Luminaire Tested: **LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274446
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: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, SINGLE WALLWASH WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 896.4 lumens
Efficiency: N/A
Efficacy: 64.0 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

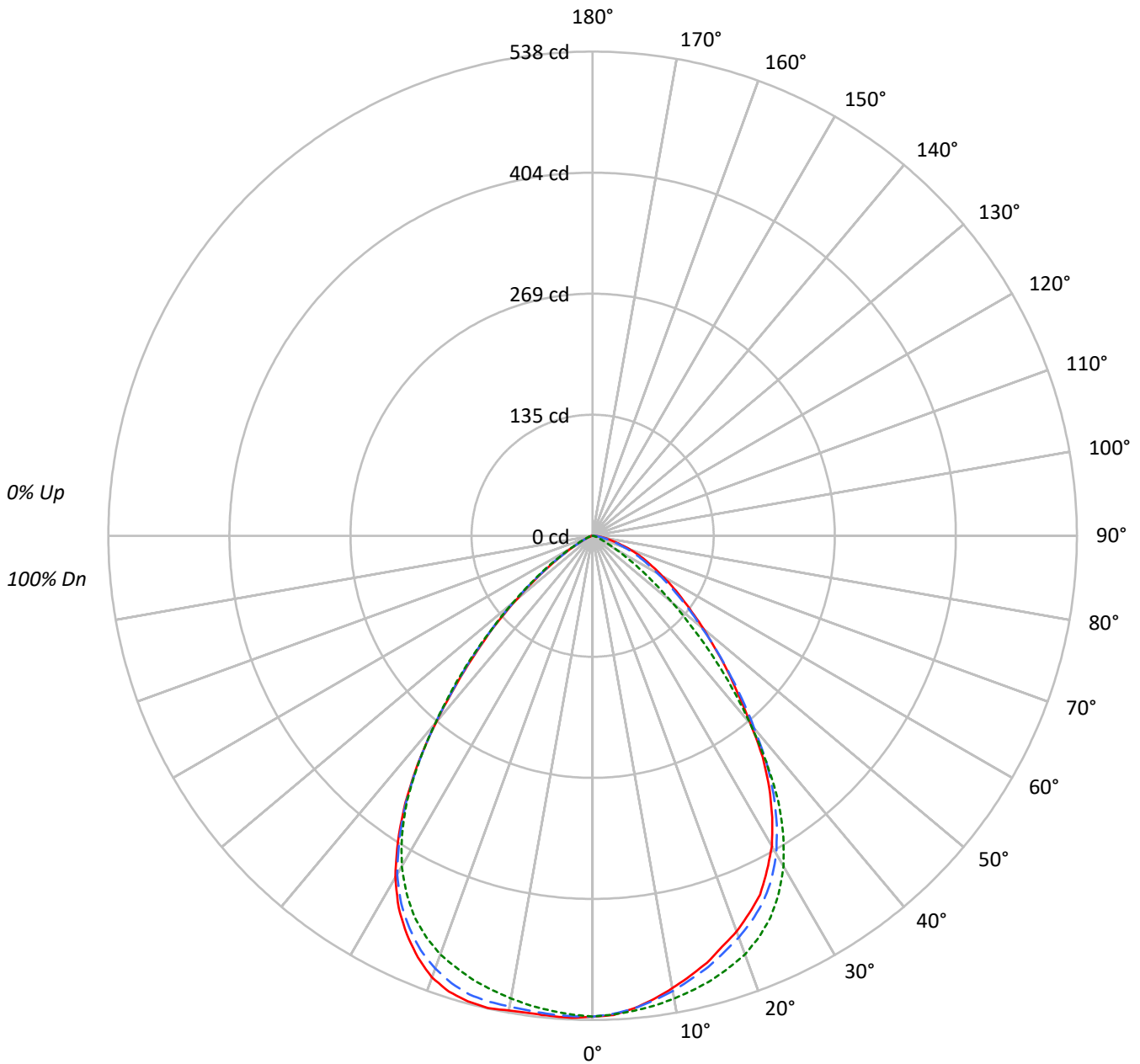
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274446

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H

Luminous Intensity Polar Plot





TEST NUMBER: P274446

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H

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	103	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°	34858	34858	34858
5°	34526	34697	35076
10°	33813	34588	35482
15°	33170	34521	36176
20°	32478	34367	36248
25°	31681	33675	35165
30°	29998	31941	33011
35°	27238	28624	28887
40°	23250	23139	23029
45°	19532	17327	16792
50°	16310	11723	11134
55°	13729	7189	6529
60°	11626	3784	3288
65°	10065	1991	1590
70°	8374	1240	858
75°	6176	807	479
80°	4847	488	225
85°	3892	449	0



TEST NUMBER: P274446

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	5.6
10°-20°	144.2	16.1
20°-30°	212.9	23.8
30°-40°	219.4	24.5
40°-50°	151.6	16.9
50°-60°	74.7	8.3
60°-70°	30.3	3.4
70°-80°	10.8	1.2
80°-90°	2.2	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°	407.4	45.5
0°-40°	626.9	69.9
0°-60°	853.1	95.2
0°-90°	896.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	534	534	534	534	534	
5°	527	527	530	534	536	50
15°	491	496	511	528	536	138
25°	440	448	468	481	488	201
35°	342	350	359	361	363	212
45°	212	213	188	185	182	164
55°	121	116	63	59	57	109
65°	65	59	13	10	10	65
75°	24	21	3	2	2	28
85°	5	4	1	0	0	6
90°	0	0	0	0	0	



TEST NUMBER: P274446

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	533.0	531.1	532.4	529.8	533.0	529.8	530.4	531.1	530.4	531.1	531.7
5°	527.2	525.3	527.2	524.0	527.2	525.3	525.3	525.9	525.9	526.6	527.2
7.5°	519.5	517.5	519.5	516.2	520.1	518.2	518.2	519.5	518.8	519.5	520.8
10°	510.4	507.9	509.8	507.9	511.7	509.1	510.4	510.4	510.4	512.4	513.7
12.5°	500.8	498.2	500.8	497.5	501.4	499.5	500.1	502.0	502.7	504.0	504.6
15°	491.1	487.9	489.1	487.2	491.1	489.1	489.8	492.4	492.4	494.3	496.2
17.5°	478.8	476.2	478.8	476.2	479.5	478.2	479.5	481.4	481.4	483.3	485.3
20°	467.8	465.3	467.2	465.3	469.1	467.2	467.8	470.4	471.1	473.0	474.9
22.5°	454.3	452.4	453.7	451.7	455.6	454.3	454.9	457.5	458.2	459.5	462.7
25°	440.1	436.2	438.2	436.9	440.7	438.8	440.1	442.7	444.0	445.9	448.5
27.5°	419.4	417.5	418.8	418.8	422.0	420.1	420.7	423.3	425.3	427.2	430.4
30°	398.2	394.9	396.2	396.9	399.4	398.2	399.4	402.0	402.7	405.3	407.8
32.5°	371.1	369.8	372.3	371.1	372.3	372.3	373.0	374.9	376.2	377.5	380.7
35°	342.0	339.4	342.0	340.7	343.9	342.0	343.9	345.9	345.9	348.5	350.4
37.5°	310.4	307.2	308.5	308.5	309.7	309.1	309.1	312.3	313.0	314.9	316.8
40°	273.0	271.7	274.3	273.6	274.3	274.3	274.9	276.8	278.1	278.8	279.4
42.5°	239.4	240.1	240.7	240.7	240.7	240.7	240.7	243.3	242.6	244.6	245.2
45°	211.7	209.1	210.4	209.7	211.7	209.7	211.7	213.6	212.3	214.2	213.0
47.5°	183.3	183.3	183.3	182.6	183.9	183.3	184.6	185.2	185.2	185.2	184.6
50°	160.7	158.7	159.4	159.4	160.0	159.4	160.7	161.3	161.3	160.0	157.5
52.5°	138.7	138.1	138.1	139.4	139.4	138.7	138.7	138.7	138.7	136.8	135.5
55°	120.7	119.4	120.0	120.0	120.0	120.0	120.7	120.0	120.0	118.1	116.2
57.5°	104.5	103.2	103.2	103.2	103.9	103.2	103.2	103.2	102.6	100.7	98.1
60°	89.1	88.4	89.1	89.1	89.7	89.1	89.1	89.1	87.8	85.8	83.2
62.5°	76.1	76.1	76.1	76.8	76.8	76.1	76.1	75.5	74.9	72.3	69.7
65°	65.2	64.5	65.2	65.2	65.8	65.8	65.2	64.5	63.9	61.3	58.7
67.5°	54.2	53.6	54.2	54.2	54.9	54.2	54.2	54.2	52.3	51.0	48.4
70°	43.9	43.2	43.2	43.2	43.9	42.6	43.2	43.2	41.9	40.0	37.4
72.5°	33.6	33.6	33.6	33.6	33.6	33.6	32.9	32.9	31.6	29.7	28.4
75°	24.5	24.5	25.2	25.2	24.5	24.5	24.5	23.9	23.2	21.9	20.6
77.5°	18.1	18.1	18.1	18.1	17.4	17.4	17.4	16.8	16.1	15.5	14.2
80°	12.9	12.9	12.9	12.3	12.9	12.3	12.3	12.3	11.0	10.3	9.7
82.5°	9.0	8.4	8.4	8.4	8.4	8.4	8.4	7.7	7.7	7.1	6.5
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.5	3.9	3.9
87.5°	2.6	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6	1.9
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: P274446

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	531.7	531.7	533.0	531.1	534.3	532.4	531.7	535.0	533.0	532.4	533.7
5°	527.2	527.9	528.5	527.2	530.4	528.5	528.5	531.7	530.4	529.8	531.7
7.5°	521.4	522.1	523.3	522.7	525.3	524.0	524.6	527.9	526.6	526.6	528.5
10°	514.3	515.6	516.9	516.9	520.1	518.8	518.8	522.7	521.4	522.1	524.6
12.5°	505.9	507.9	509.8	510.4	513.7	511.7	512.4	516.9	516.2	516.9	519.5
15°	496.9	499.5	501.4	501.4	505.3	503.3	505.3	509.8	508.5	511.1	514.3
17.5°	486.6	489.1	491.7	492.4	496.2	495.0	497.5	502.0	502.0	503.3	507.2
20°	476.9	480.1	481.4	483.3	487.2	486.6	487.9	493.0	493.0	495.0	498.8
22.5°	464.0	467.2	469.8	471.7	474.9	474.9	476.9	481.4	481.4	482.7	486.6
25°	449.8	453.7	455.6	457.5	460.7	460.1	462.0	465.9	466.6	467.8	471.7
27.5°	431.7	434.9	437.5	438.8	443.3	440.7	442.7	447.2	446.6	447.8	451.1
30°	409.1	412.4	414.9	414.9	418.8	418.8	420.7	422.7	422.7	424.0	426.5
32.5°	382.7	386.5	386.5	388.5	391.1	388.5	391.1	393.6	392.3	394.3	396.2
35°	352.3	354.3	354.9	354.9	356.9	356.2	355.6	357.5	356.2	359.4	361.4
37.5°	315.6	318.1	316.8	318.1	317.5	315.6	315.6	318.8	316.2	316.8	318.8
40°	280.1	280.1	279.4	276.2	276.8	274.9	274.3	274.9	272.3	271.7	274.3
42.5°	243.3	242.6	240.7	236.2	236.8	233.6	231.0	231.0	229.7	229.1	229.7
45°	210.4	208.4	205.2	200.0	198.8	196.2	191.0	189.7	187.8	187.8	188.4
47.5°	180.0	177.5	172.3	166.5	163.3	160.0	154.9	152.9	149.7	148.4	149.7
50°	154.9	150.4	143.9	135.5	132.3	128.4	123.3	120.0	116.8	115.5	114.9
52.5°	131.6	125.2	118.7	108.4	105.8	102.0	94.9	91.6	88.4	85.8	85.8
55°	111.6	105.8	96.8	87.1	83.2	79.4	72.3	67.8	64.5	63.2	61.9
57.5°	93.6	87.1	78.7	68.4	64.5	60.7	53.6	49.0	45.8	43.9	42.6
60°	78.7	71.6	63.2	54.2	49.7	45.8	38.7	34.2	31.0	29.0	27.7
62.5°	64.5	58.7	50.3	41.9	38.1	34.2	28.4	23.9	20.6	19.4	17.4
65°	54.2	48.4	40.7	33.6	30.3	26.5	21.3	17.4	14.8	12.9	11.6
67.5°	43.9	39.4	32.9	26.5	23.2	20.6	16.1	12.9	10.3	9.0	8.4
70°	34.8	30.3	25.2	20.0	18.1	15.5	12.3	9.0	7.7	6.5	5.8
72.5°	25.8	22.6	18.7	14.8	12.9	11.6	8.4	7.1	5.2	4.5	3.9
75°	18.7	16.1	13.6	10.3	9.0	8.4	6.5	4.5	3.9	3.2	2.6
77.5°	12.9	11.6	9.0	7.1	6.5	5.8	4.5	3.2	2.6	1.9	1.9
80°	8.4	7.1	5.8	4.5	4.5	3.9	2.6	1.9	1.9	1.3	1.3
82.5°	5.2	4.5	3.9	3.2	2.6	2.6	1.9	1.3	1.3	0.6	0.6
85°	3.2	2.6	1.9	1.9	1.3	1.3	1.3	0.6	0.6	0.6	0.6
87.5°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	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: P274446

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	533.7	533.7	535.0	533.0	534.3	534.3	535.6	533.0	534.3	535.0	536.2
5°	531.1	531.7	533.0	532.4	533.0	533.0	534.3	531.1	533.7	533.7	535.6
7.5°	528.5	528.5	529.8	529.2	530.4	531.1	532.4	529.8	532.4	532.4	534.3
10°	525.3	525.3	527.2	526.6	528.5	529.2	531.1	528.5	531.1	531.7	533.7
12.5°	520.8	521.4	523.3	523.3	525.3	526.6	528.5	527.2	530.4	531.1	533.7
15°	515.6	516.9	519.5	518.8	520.8	522.7	525.3	523.3	527.9	529.2	531.7
17.5°	509.1	510.4	512.4	512.4	514.3	515.6	518.8	517.5	521.4	522.1	525.3
20°	499.5	501.4	504.0	503.3	505.3	506.6	509.1	507.9	511.7	513.0	516.2
22.5°	487.9	489.1	491.1	491.1	493.0	494.3	496.9	495.0	498.8	499.5	502.0
25°	472.4	473.7	474.9	475.6	477.5	478.2	479.5	478.2	481.4	482.0	485.3
27.5°	452.4	453.0	454.9	454.9	456.2	456.9	458.8	456.2	460.7	460.7	462.7
30°	428.5	427.8	430.4	429.1	430.4	430.4	432.4	431.1	434.3	433.0	434.9
32.5°	396.9	398.2	398.2	396.9	399.4	398.8	398.8	397.5	399.4	400.1	401.4
35°	360.1	362.0	362.0	362.7	363.3	361.4	362.0	358.1	361.4	362.0	362.7
37.5°	320.1	318.1	319.4	317.5	320.7	316.8	316.8	314.3	316.8	316.8	317.5
40°	274.3	273.6	274.9	273.6	273.0	272.3	271.0	269.1	271.7	270.4	272.3
42.5°	231.0	230.4	230.4	229.1	228.4	228.4	227.1	225.9	225.2	225.2	228.4
45°	186.5	187.8	186.5	185.8	187.1	185.8	186.5	183.9	185.2	183.9	185.2
47.5°	149.1	149.7	148.4	147.1	149.1	147.1	147.1	145.2	147.8	147.8	146.5
50°	115.5	114.9	113.6	114.9	114.2	114.2	114.2	112.3	113.6	111.6	112.9
52.5°	85.2	84.5	84.5	83.9	84.5	83.9	83.9	83.2	83.2	82.6	83.2
55°	61.9	61.3	60.0	60.0	60.0	60.7	60.0	59.4	59.4	58.7	59.4
57.5°	41.9	40.7	40.7	40.7	40.7	40.0	40.0	39.4	40.0	39.4	40.0
60°	27.1	27.1	25.8	25.8	25.8	25.8	25.8	25.2	25.8	25.8	25.8
62.5°	16.8	16.8	16.1	15.5	16.1	15.5	15.5	15.5	16.1	15.5	16.1
65°	11.0	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
67.5°	7.7	7.1	7.1	7.1	7.1	7.1	7.1	6.5	7.1	7.1	7.1
70°	5.2	5.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	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	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P274446

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	534.3	535.0	533.7	534.3	533.0	534.3	535.0	536.2
5°	533.0	533.7	532.4	533.7	532.4	533.7	534.3	535.6
7.5°	531.7	533.0	531.7	533.0	531.7	533.0	533.7	535.0
10°	531.7	533.7	532.4	534.3	532.4	533.7	535.0	535.6
12.5°	531.7	533.7	533.0	534.3	533.7	535.0	536.2	537.5
15°	530.4	532.4	531.1	533.0	532.4	533.0	535.6	535.6
17.5°	523.3	525.3	525.3	526.6	526.6	528.5	529.8	531.1
20°	514.3	516.2	515.6	517.5	517.5	519.5	520.8	522.1
22.5°	500.8	503.3	502.7	504.6	504.0	505.3	507.9	507.2
25°	483.3	486.6	485.9	487.2	486.6	486.6	487.9	488.5
27.5°	462.0	464.0	463.3	464.6	463.3	464.6	465.9	466.6
30°	434.3	435.6	434.9	435.6	434.9	436.2	436.9	438.2
32.5°	400.7	402.7	400.7	402.0	401.4	401.4	404.0	402.7
35°	360.7	361.4	362.0	362.0	360.7	361.4	362.7	362.7
37.5°	316.2	319.4	315.6	317.5	316.8	316.8	316.8	318.8
40°	269.7	270.4	269.1	269.1	269.1	268.4	271.0	270.4
42.5°	225.9	226.5	225.9	223.9	224.6	224.6	226.5	223.9
45°	183.3	184.6	183.9	183.9	182.6	182.6	183.3	182.0
47.5°	145.2	146.5	144.5	145.2	143.9	145.2	144.5	145.8
50°	110.3	111.6	111.0	111.6	111.6	110.3	112.3	109.7
52.5°	82.6	83.2	82.6	82.0	81.3	81.3	82.6	82.0
55°	58.7	58.1	58.1	58.1	58.7	58.7	58.1	57.4
57.5°	39.4	39.4	38.7	38.7	39.4	38.1	38.7	38.1
60°	25.2	25.2	25.2	25.2	24.5	25.2	25.2	25.2
62.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
65°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
67.5°	6.5	7.1	7.1	7.1	6.5	6.5	6.5	6.5
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
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)