

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: PORTFOLIO

Report Number: P252345

Luminaire Tested: **LE_6B10D010 EC6B10209040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1042.5 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

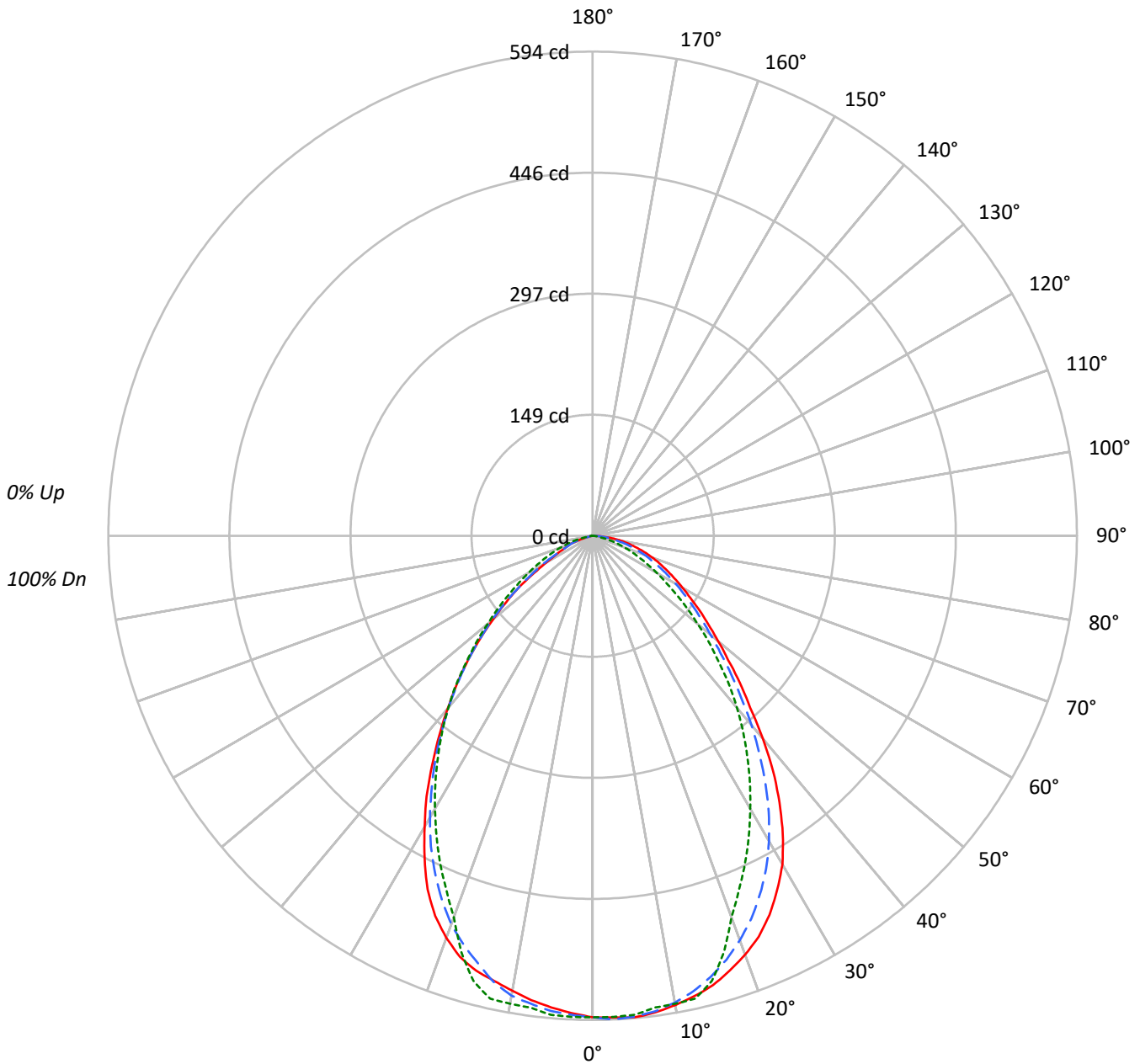
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252345

CATALOG NUMBER: LE_6B10D010 EC6B10209040 6LBLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252345

CATALOG NUMBER: LE_6B10D010 EC6B10209040 6LBLWW1LI

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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38544	38544	38544
5°	38835	38632	38036
10°	38721	38622	37555
15°	38553	38188	37310
20°	37977	34568	36436
25°	36943	31861	34466
30°	35075	29124	31037
35°	31826	26330	27310
40°	27636	23455	23514
45°	23573	20169	19966
50°	20401	17051	16118
55°	18244	14218	12489
60°	16623	11809	8416
65°	15514	9710	6268
70°	14783	7897	5265
75°	13914	5596	1739
80°	13225	2855	564
85°	10929	1647	0



TEST NUMBER: P252345

CATALOG NUMBER: LE_6B10D010 EC6B10209040 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	5.4
10°-20°	156.0	15.0
20°-30°	215.3	20.7
30°-40°	219.1	21.0
40°-50°	176.1	16.9
50°-60°	117.1	11.2
60°-70°	66.7	6.4
70°-80°	30.0	2.9
80°-90°	6.3	0.6
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°	427.1	41.0
0°-40°	646.3	62.0
0°-60°	939.5	90.1
0°-90°	1042.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	591	591	591	591	591	
5°	593	592	590	585	581	56
15°	571	560	565	543	552	161
25°	513	486	443	457	479	235
35°	400	369	331	337	343	248
45°	256	240	219	216	216	198
55°	160	150	125	111	110	144
65°	100	90	63	41	41	100
75°	55	46	22	9	7	59
85°	15	10	2	1	0	17
90°	0	0	0	0	0	



TEST NUMBER: P252345

CATALOG NUMBER: LE_6B10D010 EC6B10209040 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8
2.5°	591.5	594.5	593.8	593.0	593.8	593.0	591.5	591.5	589.9	589.9	593.8
5°	593.0	594.5	593.8	593.0	593.0	593.8	590.8	590.8	589.1	588.4	592.2
7.5°	589.9	592.2	590.8	590.8	589.9	590.8	587.6	587.6	585.4	584.5	588.4
10°	584.5	587.6	586.1	586.1	586.1	584.5	583.0	582.2	580.0	579.1	581.5
12.5°	578.4	580.8	580.0	578.4	578.4	578.4	575.4	574.6	571.5	570.0	572.2
15°	570.8	572.2	571.5	570.8	569.2	569.2	566.1	564.6	561.5	558.5	560.0
17.5°	559.2	561.5	560.0	559.2	556.9	556.9	553.9	552.4	547.8	544.6	545.4
20°	547.0	547.8	547.0	545.4	543.1	542.4	539.2	536.2	532.4	528.5	527.8
22.5°	532.4	533.1	530.9	529.4	527.0	526.2	522.4	520.1	514.0	509.4	508.6
25°	513.2	514.0	514.0	510.1	508.6	507.1	503.2	499.4	494.0	487.9	485.6
27.5°	490.2	492.5	491.0	487.1	484.0	483.2	479.5	476.4	469.5	464.1	461.0
30°	465.6	464.9	464.1	461.8	457.2	456.5	452.6	448.8	443.4	436.5	432.6
32.5°	434.2	434.2	433.4	431.1	426.5	425.0	421.9	417.4	411.1	405.8	402.0
35°	399.6	400.5	399.6	395.1	392.0	390.5	388.9	383.6	378.2	372.0	369.0
37.5°	363.6	361.4	362.1	358.2	354.4	356.0	351.4	349.0	342.9	338.2	335.2
40°	324.5	326.0	323.0	321.4	319.1	316.9	316.9	313.0	309.9	304.5	303.0
42.5°	286.1	288.5	287.6	286.1	283.1	283.9	280.0	278.5	274.6	272.4	270.0
45°	255.5	255.5	255.5	253.9	253.1	251.6	249.4	247.0	244.8	241.6	240.1
47.5°	225.5	225.5	226.2	224.8	223.2	222.5	220.9	220.9	217.1	214.0	212.5
50°	201.0	201.0	201.0	199.5	197.9	197.9	196.4	194.9	192.5	190.2	188.8
52.5°	178.8	178.8	178.8	177.2	176.5	175.6	174.9	174.1	171.1	169.5	168.0
55°	160.4	159.6	159.6	158.8	157.2	157.2	156.5	155.0	152.6	150.4	149.6
57.5°	141.9	142.6	141.9	141.9	140.4	140.4	138.9	138.1	135.8	134.2	132.8
60°	127.4	127.4	127.4	126.6	125.0	125.8	124.2	123.5	121.2	118.9	117.4
62.5°	112.8	113.5	113.5	112.8	111.2	111.2	110.5	109.8	107.4	105.1	102.8
65°	100.5	100.5	100.5	99.8	99.0	99.0	98.2	97.4	95.1	92.0	89.8
67.5°	89.0	88.2	88.2	88.2	87.5	86.6	85.9	85.1	82.9	80.5	77.5
70°	77.5	77.5	77.5	76.8	75.1	76.0	75.1	74.4	72.1	69.8	67.5
72.5°	66.8	66.8	66.0	65.2	65.2	64.5	64.5	63.6	61.4	58.2	56.0
75°	55.2	55.2	55.2	55.2	53.8	54.5	52.9	52.1	50.6	48.4	46.0
77.5°	45.2	45.2	45.2	44.5	43.8	43.8	43.0	42.2	39.9	38.4	35.2
80°	35.2	35.2	35.2	35.2	34.5	33.8	33.0	32.2	30.6	28.4	26.1
82.5°	26.1	26.1	25.4	25.4	25.4	24.5	23.8	23.0	21.5	20.0	18.4
85°	14.6	15.4	15.4	13.8	14.6	13.8	13.8	12.2	12.2	10.8	10.0
87.5°	5.4	4.6	4.6	4.6	4.6	4.6	4.6	3.9	3.9	3.9	3.1
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: P252345

CATALOG NUMBER: LE_6B10D010 EC6B10209040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8
2.5°	590.8	589.9	593.0	593.0	588.4	590.8	591.5	589.9	589.9	590.8	588.4
5°	589.1	587.6	590.8	591.5	586.9	589.1	589.9	588.4	589.1	589.9	586.9
7.5°	583.8	583.8	586.1	586.9	582.2	584.5	584.5	583.0	583.8	583.8	581.5
10°	578.4	576.1	578.4	578.4	574.6	575.4	576.9	576.1	579.1	583.0	583.0
12.5°	568.5	566.1	570.0	570.0	567.6	570.8	574.6	576.9	580.0	581.5	576.9
15°	556.1	556.9	563.9	569.2	566.9	571.5	575.4	573.8	570.0	565.4	558.5
17.5°	540.0	537.8	543.9	547.0	543.9	545.4	548.5	545.4	539.2	535.5	526.2
20°	521.6	515.5	515.5	514.0	508.6	508.6	507.9	502.5	500.1	497.9	494.0
22.5°	500.9	494.0	491.8	487.1	482.5	481.8	479.5	474.1	471.0	469.5	464.9
25°	477.1	471.0	467.1	462.6	455.6	454.1	451.9	446.5	444.9	442.6	438.8
27.5°	452.6	444.9	439.6	435.0	428.9	428.0	423.5	419.6	416.5	415.0	412.0
30°	424.2	415.8	412.0	405.8	401.2	399.6	395.9	390.5	388.1	386.6	384.4
32.5°	392.8	385.9	382.0	376.6	370.5	371.2	366.8	362.1	360.5	359.0	356.8
35°	362.1	355.1	350.6	346.0	342.1	340.6	337.5	333.8	331.4	330.6	329.1
37.5°	328.4	323.0	319.1	314.5	311.5	309.9	308.4	304.5	303.0	303.0	300.0
40°	295.4	290.8	287.6	285.4	281.5	280.8	279.2	276.9	276.1	275.4	273.1
42.5°	265.4	259.2	257.0	255.5	253.1	251.6	250.9	249.4	248.5	247.8	245.5
45°	237.0	231.6	229.4	227.9	225.5	224.8	224.0	221.8	220.1	218.6	217.9
47.5°	209.4	205.6	204.9	201.0	199.5	197.9	196.4	194.9	194.1	193.4	190.2
50°	185.6	183.4	179.5	177.2	175.6	174.9	171.9	169.5	168.8	168.0	165.8
52.5°	164.1	161.1	158.8	155.0	154.2	152.6	151.1	148.0	146.5	145.8	143.5
55°	145.0	142.6	139.6	136.5	134.2	133.5	131.1	128.1	126.6	125.0	123.5
57.5°	128.9	125.0	122.0	118.9	117.4	115.1	112.8	111.2	108.9	106.6	104.4
60°	113.5	110.5	106.6	103.5	102.0	100.5	97.4	95.1	92.9	90.5	88.2
62.5°	99.0	95.9	92.0	89.0	87.5	85.9	82.9	80.5	78.2	76.0	72.9
65°	85.9	82.9	79.8	76.8	75.1	73.6	70.6	67.5	65.2	62.9	59.9
67.5°	75.1	71.4	68.2	65.2	63.6	62.1	59.1	56.8	53.8	51.4	48.4
70°	63.6	60.6	58.2	55.2	53.8	52.1	49.1	46.0	43.8	41.4	38.4
72.5°	53.8	49.9	47.5	44.5	43.0	42.2	39.1	36.9	34.5	31.5	29.1
75°	43.0	39.9	36.9	34.5	33.0	32.2	29.1	26.9	24.5	22.2	20.0
77.5°	33.0	30.6	27.6	25.4	23.8	23.0	20.0	17.6	15.4	13.8	11.5
80°	24.5	21.5	20.0	17.6	16.9	15.4	13.8	11.5	10.0	7.6	6.1
82.5°	16.9	14.6	13.0	11.5	10.8	10.0	8.5	6.9	5.4	4.6	3.9
85°	9.2	7.6	6.9	6.1	5.4	5.4	4.6	3.9	3.1	2.2	1.5
87.5°	3.1	2.2	2.2	2.2	2.2	1.5	1.5	1.5	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: P252345

CATALOG NUMBER: LE_6B10D010 EC6B10209040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8
2.5°	589.9	589.9	589.9	589.1	589.1	589.1	588.4	591.5	588.4	587.6	589.9
5°	589.1	587.6	587.6	587.6	587.6	586.9	586.1	587.6	585.4	584.5	584.5
7.5°	584.5	583.8	583.8	583.0	582.2	581.5	580.8	581.5	579.1	578.4	578.4
10°	585.4	583.8	583.8	581.5	580.0	577.6	575.4	576.1	573.0	570.8	570.8
12.5°	576.1	572.2	570.0	567.6	566.1	565.4	562.2	563.9	560.8	560.0	560.0
15°	555.4	550.8	547.0	545.4	545.4	543.9	541.6	544.6	543.1	543.9	547.8
17.5°	523.1	520.9	518.6	517.8	518.6	520.1	521.6	526.2	526.2	528.5	532.4
20°	494.8	493.2	494.8	494.8	495.6	498.6	501.8	505.5	507.1	509.4	514.8
22.5°	467.1	467.1	468.8	471.0	470.2	475.6	476.4	483.2	483.2	487.9	492.5
25°	440.4	440.4	441.9	442.6	444.1	447.2	450.2	455.6	457.2	461.8	465.6
27.5°	414.2	413.5	413.5	414.2	415.8	419.6	421.1	427.2	429.6	432.6	436.5
30°	385.1	384.4	385.9	387.4	386.6	390.5	392.8	397.4	398.9	402.0	405.0
32.5°	357.5	357.5	357.5	359.0	359.0	362.1	362.1	367.5	367.5	369.8	372.9
35°	329.1	329.1	329.9	330.6	331.4	332.1	332.9	336.0	336.8	337.5	339.1
37.5°	302.2	301.5	302.2	302.2	300.8	303.8	303.8	306.9	304.5	306.9	307.6
40°	274.6	274.6	273.9	273.9	273.9	275.4	273.9	276.1	274.6	276.1	275.4
42.5°	246.2	246.2	244.8	246.2	245.5	245.5	245.5	247.0	244.8	246.2	247.0
45°	217.9	217.1	217.1	216.4	216.4	216.4	217.1	217.1	216.4	217.9	217.9
47.5°	190.2	189.5	189.5	189.5	189.5	190.2	188.0	189.5	188.0	188.0	188.0
50°	166.5	165.8	164.9	164.1	163.4	163.4	162.6	162.6	161.1	160.4	159.6
52.5°	143.5	142.6	141.1	141.1	140.4	139.6	137.4	137.4	135.0	134.2	134.2
55°	122.8	120.5	119.6	118.1	118.1	116.6	115.1	113.5	111.2	109.8	109.8
57.5°	103.5	101.2	99.8	99.0	98.2	96.6	93.6	92.9	89.8	89.0	88.2
60°	86.6	84.4	82.1	80.5	79.8	77.5	74.4	72.9	71.4	69.0	66.8
62.5°	70.6	68.2	65.2	64.5	62.9	60.6	58.2	56.0	54.5	52.1	50.6
65°	56.8	54.5	52.1	50.6	49.1	46.8	44.5	42.2	40.6	39.9	39.1
67.5°	46.0	43.0	40.6	39.9	38.4	36.9	34.5	33.8	32.2	32.2	32.2
70°	36.0	33.8	31.5	30.6	29.9	28.4	26.9	26.9	26.9	26.9	26.9
72.5°	26.9	25.4	23.0	22.2	21.5	20.8	19.1	20.0	19.1	19.1	19.1
75°	16.9	15.4	13.8	13.0	12.2	11.5	10.8	10.0	9.2	8.5	8.5
77.5°	9.2	7.6	6.9	6.1	6.1	5.4	4.6	4.6	3.9	3.9	3.9
80°	5.4	4.6	3.9	3.1	3.1	2.2	2.2	2.2	2.2	1.5	1.5
82.5°	3.1	2.2	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8
85°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
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: P252345

CATALOG NUMBER: LE_6B10D010 EC6B10209040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8
2.5°	586.1	588.4	586.1	588.4	588.4	588.4	588.4	586.1
5°	582.2	583.8	581.5	583.0	583.8	583.0	583.0	580.8
7.5°	575.4	576.9	574.6	576.9	577.6	576.9	576.1	574.6
10°	568.5	569.2	566.9	568.5	570.0	570.0	569.2	566.9
12.5°	557.8	560.0	557.8	559.2	560.8	561.5	561.5	559.2
15°	545.4	549.2	547.8	550.0	552.4	553.1	553.1	552.4
17.5°	533.1	537.0	534.8	538.5	540.9	542.4	543.1	541.6
20°	515.5	520.1	518.6	521.6	524.8	527.0	527.0	524.8
22.5°	492.5	498.6	497.9	500.1	504.0	504.8	506.2	504.8
25°	467.1	471.8	471.0	473.4	477.9	477.9	478.8	478.8
27.5°	438.0	442.6	441.9	443.4	446.5	447.2	448.0	446.5
30°	406.6	408.9	408.9	411.1	413.5	414.2	414.2	412.0
32.5°	372.0	375.1	376.6	375.9	378.2	379.8	379.0	379.0
35°	340.6	341.4	342.1	342.9	343.6	345.2	343.6	342.9
37.5°	306.9	309.1	307.6	309.1	310.6	309.9	309.1	309.1
40°	276.1	276.9	275.4	276.9	277.8	277.8	277.8	276.1
42.5°	245.5	247.0	245.5	247.0	247.0	247.0	247.0	246.2
45°	214.8	216.4	216.4	217.1	217.1	216.4	216.4	216.4
47.5°	186.4	188.0	186.4	188.0	188.8	187.1	187.1	187.1
50°	159.6	158.8	158.8	159.6	159.6	159.6	159.6	158.8
52.5°	132.0	132.8	132.8	132.8	133.5	132.8	133.5	133.5
55°	108.1	108.1	108.1	108.9	108.1	108.1	108.9	109.8
57.5°	86.6	85.9	85.1	85.1	85.9	85.1	85.1	85.1
60°	66.8	66.0	65.2	65.2	65.2	65.2	65.2	64.5
62.5°	49.9	49.9	49.9	50.6	50.6	50.6	50.6	51.4
65°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	40.6
67.5°	32.2	32.2	32.2	33.0	33.0	33.0	33.0	33.0
70°	26.9	26.9	27.6	26.9	27.6	27.6	27.6	27.6
72.5°	18.4	18.4	18.4	18.4	18.4	17.6	18.4	17.6
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.9
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)