

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P677980

Luminaire Tested: **CCW-SA-1-AMB-U-SL4**

Issue Date: 04/26/2023

Test Information

Test Method: LM-79-08
Report Number: P677980
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1-AMB-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @500mA w/
SL4 distribution lens
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

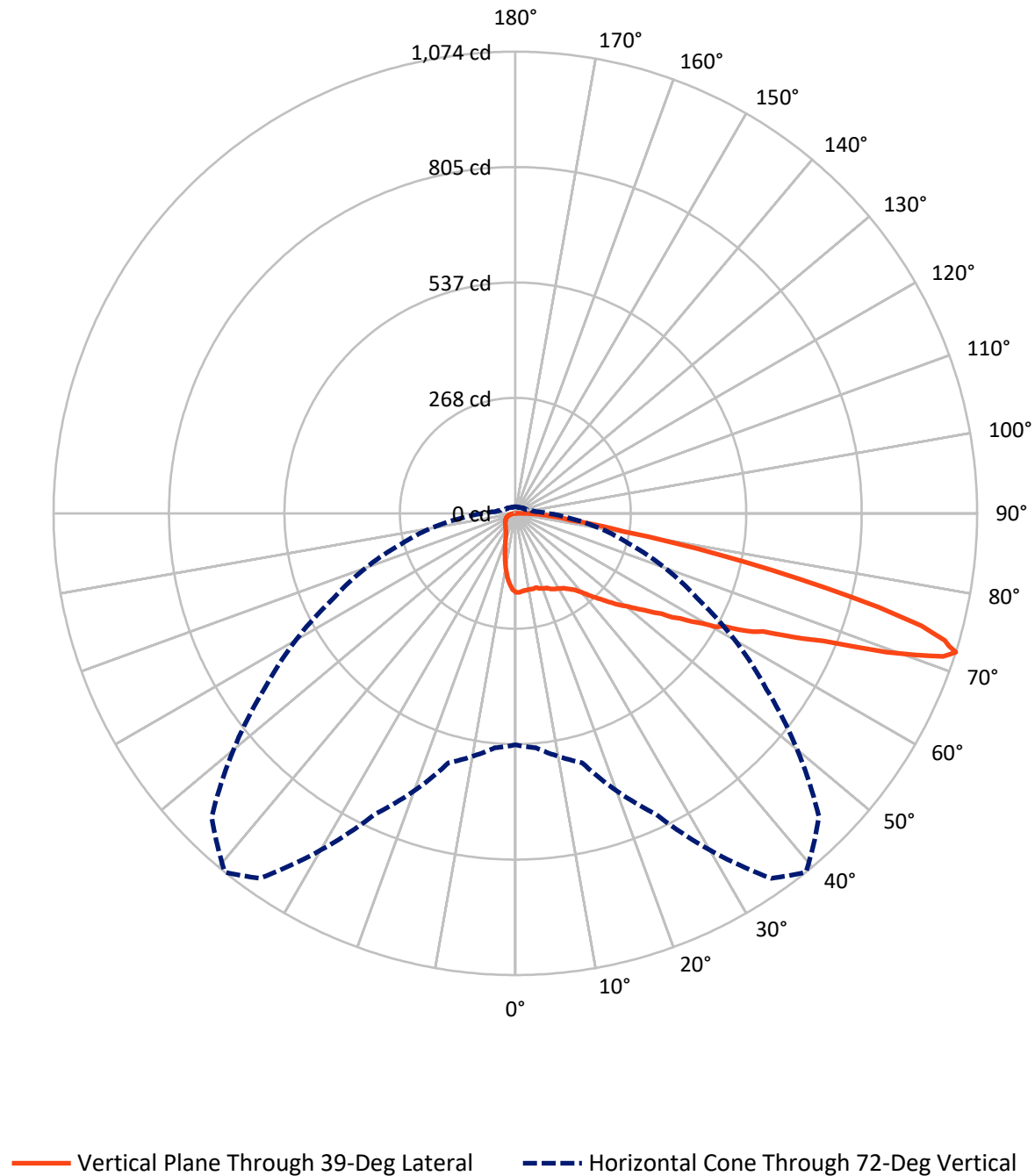
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1162.4 lumens
Efficiency: N/A
Efficacy: 51.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 22.6
Input Voltage (V): 120
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

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Luminous Intensity Polar Plot



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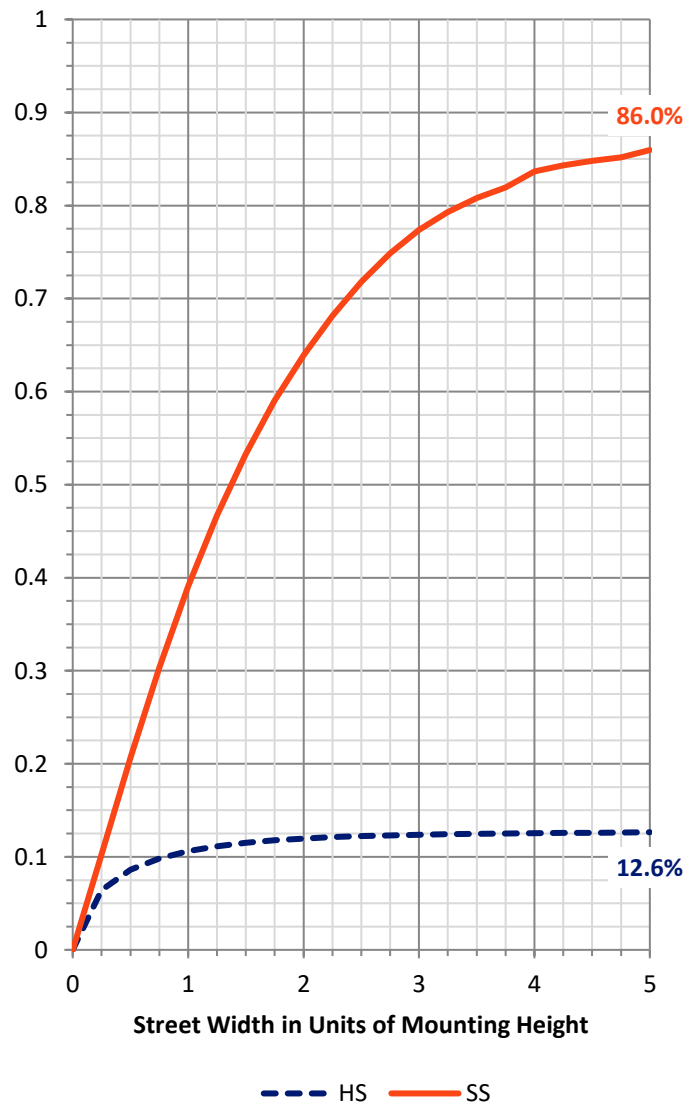
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	148.6	0.0	148.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1013.8	0.0	1013.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	1162.4	0.0	1162.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	1.4
10°-20°	40.7	3.5
20°-30°	62.0	5.3
30°-40°	89.7	7.7
40°-50°	138.5	11.9
50°-60°	221.9	19.1
60°-70°	325.1	28.0
70°-80°	231.9	20.0
80°-90°	36.4	3.1
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°-90°	1162.4	100.0
0°-180°	1162.4	100.0

Coefficient of Utilization



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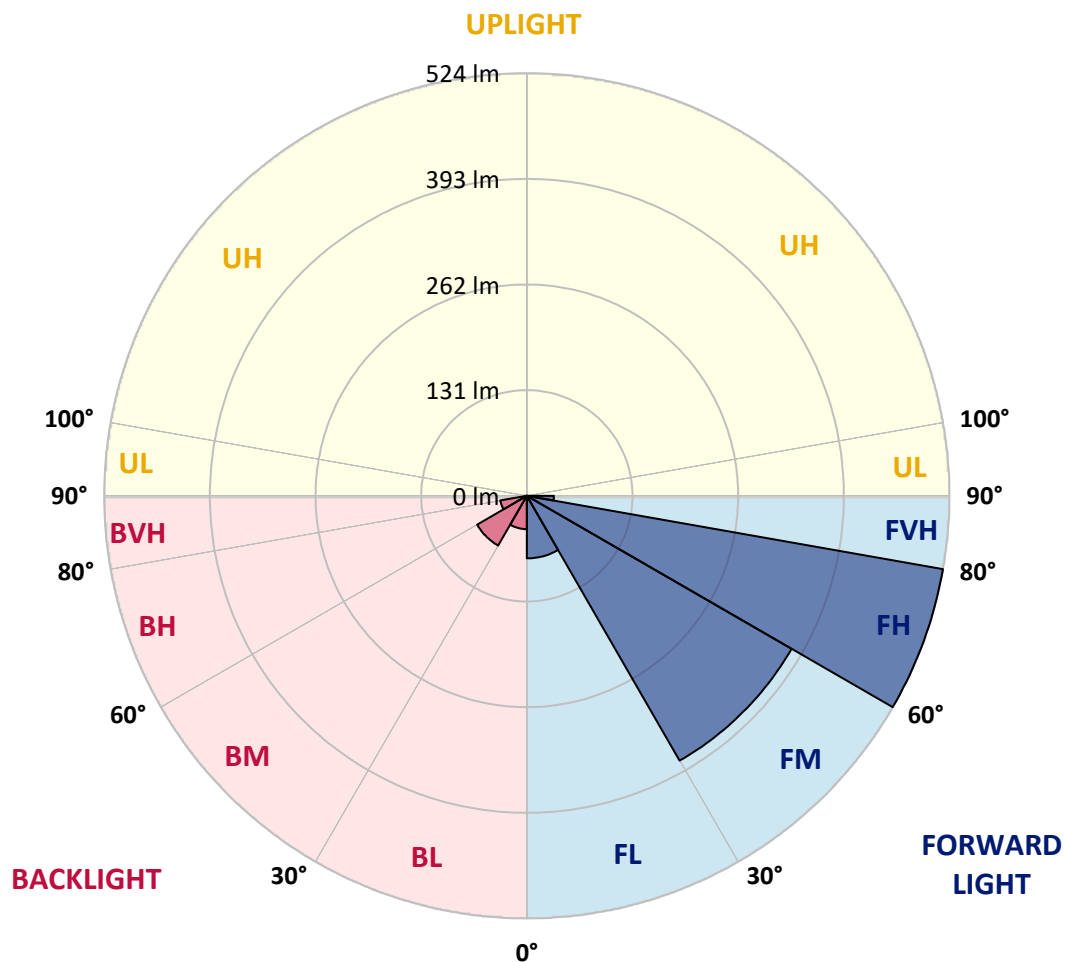
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.5	6.7			
FM	(30°-60°)	378.9	32.6			
FH	(60°-80°)	523.7	45.1			G0/660
FVH	(80°-90°)	33.6	2.9			G1/100
BL	(0°-30°)	41.3	3.6	B0/110		
BM	(30°-60°)	71.2	6.1	B0/220		
BH	(60°-80°)	33.3	2.9	B0/110		G0/110
BVH	(80°-90°)	2.8	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7
2.5°	184.4	185.7	185.0	186.4	184.4	183.7	185.7	183.0	183.7	183.0	182.4
5°	185.0	183.0	184.4	182.4	181.0	181.0	182.4	181.0	180.4	180.4	178.4
7.5°	177.7	179.0	181.0	178.4	180.4	180.4	179.0	177.0	175.7	177.7	175.0
10°	173.0	175.0	177.7	177.7	177.0	179.7	178.4	175.7	176.3	176.3	173.0
12.5°	170.3	171.0	174.3	177.7	179.0	180.4	178.4	177.0	175.0	174.3	173.0
15°	169.7	170.3	173.7	177.0	181.0	179.0	179.7	181.0	177.0	176.3	173.0
17.5°	170.3	173.7	176.3	180.4	183.0	183.7	184.4	181.0	177.7	177.0	174.3
20°	175.0	176.3	180.4	185.7	186.4	186.4	186.4	183.0	181.0	179.7	174.3
22.5°	182.4	181.0	184.4	188.4	191.7	188.4	189.0	183.7	181.0	181.7	177.7
25°	189.0	187.0	191.0	193.0	194.4	195.1	191.0	187.0	182.4	187.0	183.7
27.5°	195.7	193.0	197.1	199.1	196.4	199.1	195.7	189.0	184.4	189.0	188.4
30°	203.1	203.1	207.1	205.7	203.1	202.4	198.4	190.4	188.4	197.1	193.0
32.5°	217.1	215.1	215.1	215.1	208.4	207.7	205.7	198.4	197.1	208.4	201.1
35°	228.5	229.8	228.5	224.4	216.4	216.4	215.1	208.4	210.4	225.1	216.4
37.5°	242.5	241.8	239.1	234.5	227.1	225.8	227.8	220.4	226.4	244.5	233.1
40°	256.5	253.2	250.5	245.2	243.8	243.8	243.8	239.1	249.2	270.5	258.5
42.5°	262.5	265.2	259.2	259.8	264.5	265.2	264.5	259.8	274.5	304.6	287.9
45°	277.2	275.2	272.5	275.2	280.6	287.9	292.6	285.9	307.3	344.7	321.3
47.5°	291.9	287.9	283.2	294.6	306.6	315.3	322.0	320.0	341.3	393.4	363.4
50°	307.3	304.6	297.3	319.3	326.6	341.3	353.4	352.0	384.1	445.5	402.8
52.5°	336.0	327.3	313.3	340.7	360.7	374.1	388.8	393.4	439.5	499.0	446.9
55°	368.1	356.0	338.7	371.4	403.5	412.1	433.5	444.2	493.6	551.8	480.3
56°	380.8	363.4	349.4	386.1	419.5	438.2	455.6	474.3	514.4	569.1	488.3
57°	391.4	380.8	362.1	398.1	435.5	454.9	479.6	498.3	532.4	597.9	507.0
58°	406.8	390.8	374.1	412.8	459.6	481.6	499.7	521.7	557.1	613.2	516.4
59°	410.8	407.5	389.4	426.2	484.3	503.0	527.7	544.4	585.2	629.2	529.7
60°	430.2	411.5	404.1	450.2	515.0	535.7	560.4	572.5	613.2	656.0	546.4
61°	435.5	428.8	414.2	464.9	530.4	549.8	579.1	595.8	634.6	672.0	552.4
62°	438.9	434.2	422.2	480.3	551.1	586.5	605.2	629.9	659.3	692.7	551.8
63°	448.9	441.5	443.5	494.3	583.2	617.2	633.3	656.0	687.4	706.1	542.4
64°	464.3	458.2	453.6	514.4	605.9	637.3	667.3	704.1	716.8	708.7	524.4
65°	475.6	468.9	470.3	535.1	637.3	682.0	718.8	750.2	744.8	718.8	495.6
66°	491.0	478.9	487.6	565.8	683.4	730.8	766.2	790.9	757.5	694.0	454.2
67°	502.3	505.7	511.0	603.2	732.1	774.9	826.3	828.3	760.2	663.3	406.1
67.5°	515.7	515.7	529.7	619.2	765.5	810.3	867.1	845.7	757.5	635.9	377.4
68°	523.7	524.4	545.7	631.9	796.2	845.7	897.8	858.4	752.8	603.9	341.3
69°	541.1	543.7	577.1	678.7	849.7	921.2	951.9	866.4	712.7	548.4	293.2
70°	559.8	564.5	601.9	730.8	935.2	986.6	988.6	847.0	643.3	460.9	225.1
71°	555.8	555.1	614.6	751.5	980.6	1048.7	1014.7	795.6	557.1	372.7	169.0
72°	538.4	547.1	600.5	771.5	1036.1	1073.5	998.0	712.7	465.6	273.2	124.2
72.5°	527.0	529.7	589.8	760.2	1032.0	1054.1	961.2	673.3	430.2	235.1	108.2
73°	507.0	518.4	581.8	751.5	1018.0	1040.7	931.8	607.9	364.7	198.4	96.9
74°	462.9	474.9	546.4	716.8	970.6	979.3	823.6	504.3	268.5	145.0	70.8
75°	410.1	426.2	495.0	648.0	875.1	872.4	713.4	393.4	187.7	106.2	56.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
77.5°	217.8	229.8	292.6	406.8	564.5	545.7	393.4	187.7	92.2	52.1	36.1
80°	133.6	136.3	157.6	199.7	267.9	257.2	181.7	112.2	54.1	35.4	25.4
82.5°	84.2	84.2	100.2	119.6	133.6	128.3	108.9	100.9	38.7	20.0	10.7
85°	56.1	61.5	74.8	80.2	86.8	83.5	86.2	100.9	26.1	9.4	6.7
87.5°	38.1	44.1	60.1	52.8	54.1	47.4	60.8	101.5	8.7	4.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7
2.5°	181.0	180.4	180.4	180.4	179.0	177.7	177.7	177.7	176.3	174.3	174.3
5°	177.7	176.3	175.7	175.0	170.3	167.0	163.7	160.3	161.0	156.3	157.0
7.5°	175.0	175.0	171.0	165.0	158.3	153.6	147.0	140.3	138.3	134.9	133.6
10°	171.7	171.7	167.0	157.6	147.6	136.9	127.6	118.9	112.2	108.2	110.2
12.5°	169.0	168.3	160.3	147.6	135.6	122.2	107.5	96.9	88.8	85.5	86.8
15°	170.3	168.3	154.3	138.9	121.6	105.5	90.2	80.2	70.8	66.8	66.8
17.5°	170.3	165.7	149.6	128.9	108.9	88.8	74.8	64.8	57.4	54.8	54.1
20°	173.0	165.0	143.6	118.2	94.2	76.2	63.5	54.8	50.1	48.8	48.8
22.5°	174.3	165.0	138.3	108.2	82.8	64.8	55.4	48.8	46.8	44.8	46.1
25°	178.4	163.0	130.3	96.9	71.5	56.8	48.8	46.1	44.8	44.1	43.4
27.5°	180.4	165.7	124.2	86.2	61.5	51.4	46.1	44.1	43.4	42.8	42.1
30°	183.7	163.7	117.6	75.5	54.8	47.4	44.1	42.1	41.4	40.7	40.7
32.5°	188.4	166.3	108.9	66.8	49.4	43.4	41.4	40.1	39.4	39.4	38.7
35°	193.7	165.7	101.5	58.8	45.4	40.7	39.4	38.7	38.1	38.1	38.1
37.5°	208.4	171.0	90.8	52.8	42.1	38.7	37.4	37.4	36.7	36.7	36.1
40°	225.1	178.4	84.8	48.1	39.4	37.4	35.4	35.4	35.4	34.7	34.7
42.5°	246.5	185.7	78.8	46.1	38.1	35.4	34.7	33.4	34.1	33.4	32.7
45°	271.2	196.4	74.8	43.4	36.7	34.1	32.7	32.7	32.7	32.7	32.1
47.5°	299.3	209.7	70.8	41.4	36.1	32.7	31.4	31.4	30.7	30.7	30.1
50°	328.0	224.4	68.8	40.1	34.1	31.4	30.7	30.1	29.4	28.7	28.7
52.5°	358.0	237.8	68.8	39.4	33.4	30.1	29.4	28.7	28.1	27.4	27.4
55°	376.7	249.8	70.8	39.4	32.1	28.7	27.4	28.1	26.7	26.1	26.1
56°	393.4	255.2	71.5	39.4	31.4	28.1	27.4	27.4	26.1	25.4	25.4
57°	398.8	259.2	70.8	39.4	31.4	27.4	26.7	26.7	25.4	24.7	24.7
58°	409.5	265.2	70.8	38.7	31.4	27.4	26.1	26.1	25.4	24.7	24.0
59°	418.2	267.9	68.8	39.4	31.4	26.7	25.4	25.4	24.7	24.0	24.0
60°	422.8	263.2	67.5	38.7	30.7	26.1	24.7	25.4	24.7	23.4	23.4
61°	419.5	253.8	65.5	38.7	30.7	25.4	24.0	24.7	24.0	23.4	23.4
62°	413.5	243.1	62.1	37.4	30.7	25.4	23.4	24.0	23.4	23.4	22.7
63°	391.4	223.8	58.8	37.4	29.4	25.4	23.4	23.4	23.4	22.7	22.7
64°	364.7	199.1	54.8	36.1	29.4	24.0	22.7	23.4	23.4	22.7	22.7
65°	335.3	173.7	52.1	35.4	28.7	24.0	21.4	22.0	23.4	22.7	22.0
66°	298.6	148.3	47.4	33.4	28.1	23.4	20.7	21.4	22.0	22.0	22.0
67°	257.2	127.6	44.1	32.1	27.4	22.7	20.0	20.7	21.4	21.4	21.4
67.5°	232.5	113.6	42.1	32.1	26.7	22.0	20.0	20.0	21.4	20.7	20.7
68°	209.7	101.5	41.4	30.7	26.1	22.0	19.4	20.0	20.7	20.0	20.7
69°	167.7	81.5	38.1	29.4	24.7	21.4	18.7	18.7	19.4	19.4	19.4
70°	128.3	66.1	34.7	27.4	23.4	20.7	18.0	18.0	18.0	18.0	18.0
71°	96.9	55.4	32.1	26.1	22.0	19.4	17.4	16.0	16.7	16.7	16.7
72°	74.8	46.1	29.4	24.0	21.4	18.7	16.7	15.4	15.4	15.4	15.4
72.5°	66.8	43.4	28.7	22.7	20.0	18.0	16.0	14.7	14.0	14.7	14.7
73°	59.5	40.1	27.4	22.0	19.4	17.4	16.0	14.0	14.0	14.0	14.0
74°	47.4	35.4	25.4	20.7	17.4	16.0	14.7	13.4	12.7	12.7	12.7
75°	40.1	31.4	23.4	18.7	16.7	14.7	14.0	12.7	12.0	12.0	12.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	29.4	24.7	18.7	14.7	12.7	12.0	11.4	10.0	10.0	10.0	10.0
80°	21.4	19.4	14.7	10.7	10.0	9.4	8.7	8.0	8.0	8.0	7.3
82.5°	12.0	15.4	10.7	8.0	7.3	6.7	6.7	6.0	6.0	5.3	5.3
85°	8.7	11.4	7.3	5.3	4.7	4.0	4.0	4.0	4.0	3.3	2.7
87.5°	2.7	6.7	3.3	2.0	2.0	1.3	1.3	1.3	1.3	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)