

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: P679564

Luminaire Tested: **CCW-SA-1-AMB-U-T4W-HSS**

Issue Date: 04/26/2023



Test Information

Test Method: LM-79-08
Report Number: P679564
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-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @500mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

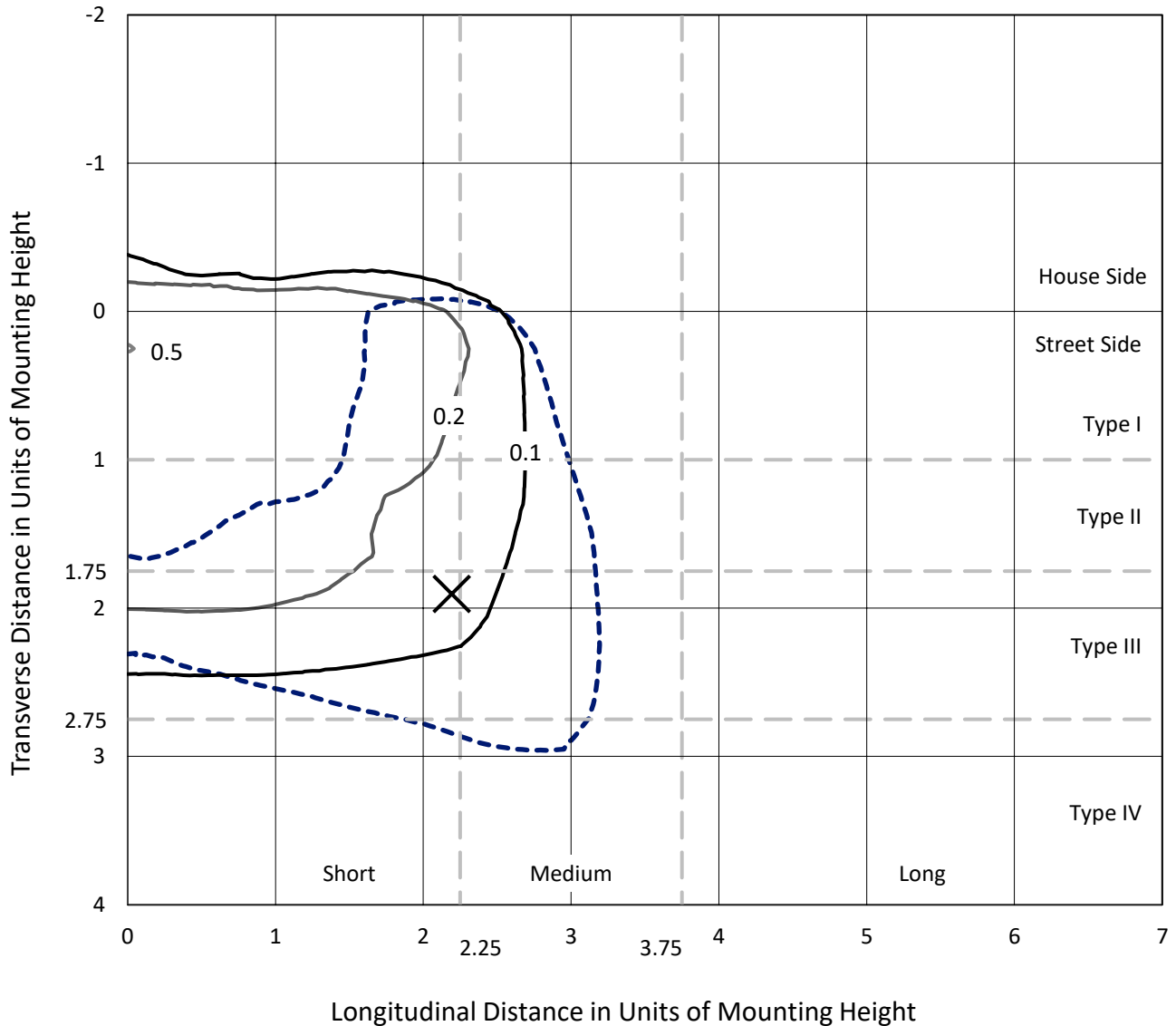
Lumens per Lamp: N/A
Luminaire Lumens: 867.8 lumens
Efficiency: N/A
Efficacy: 38.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

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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Iso-Footcandle Lines of Horizontal Illumination

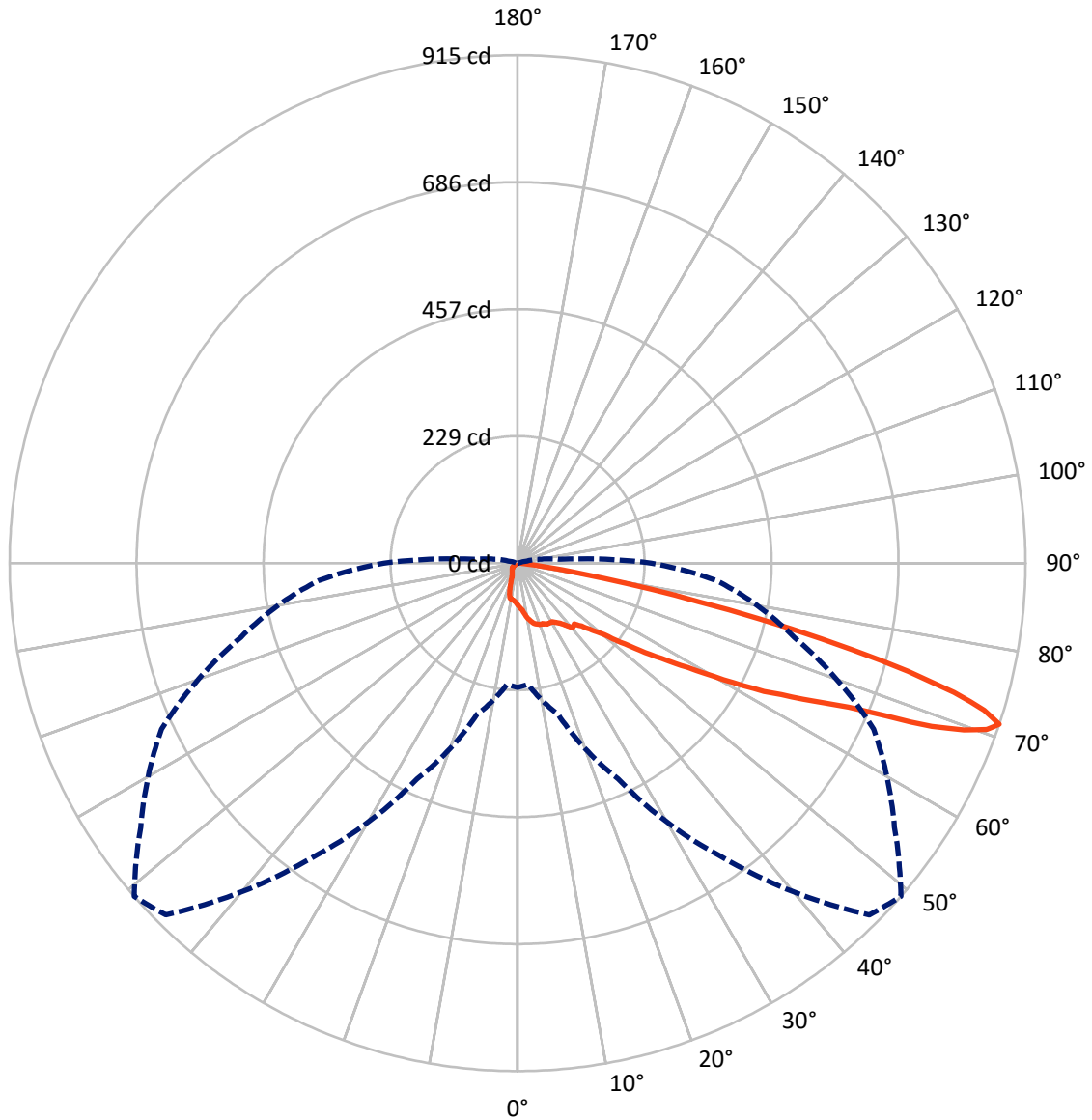
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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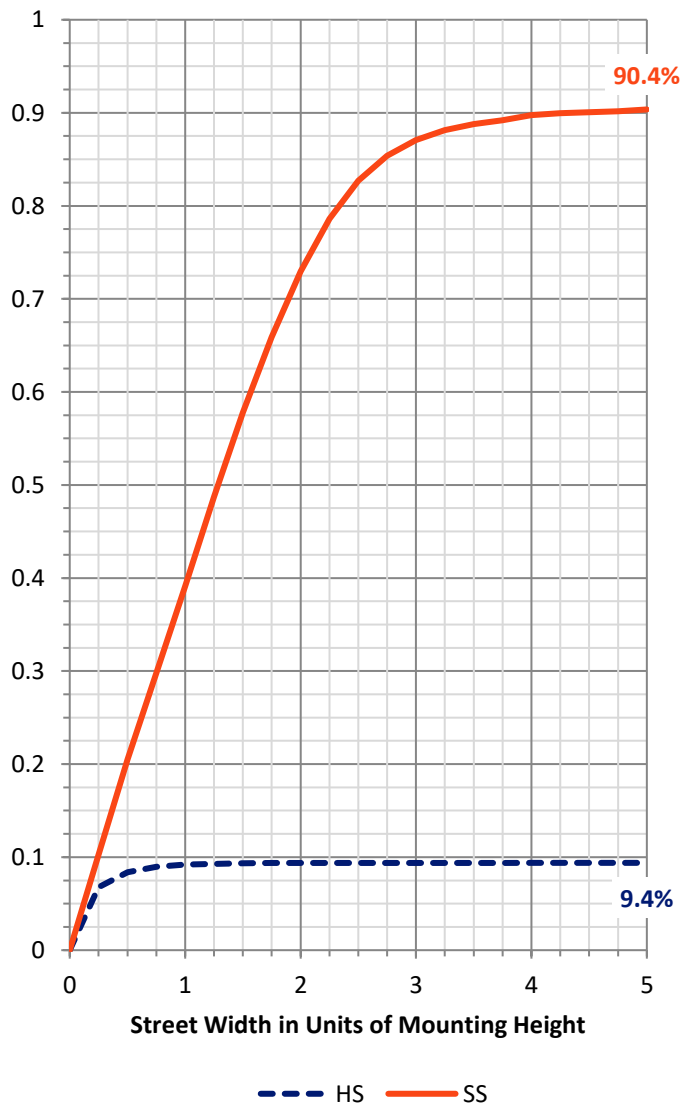
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.1	0.0	82.1
	% Fixture	9.5	0.0	9.5
Street Side	Lumens	785.7	0.0	785.7
	% Fixture	90.5	0.0	90.5
Total	Lumens	867.8	0.0	867.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.9
10°-20°	23.5	2.7
20°-30°	37.0	4.3
30°-40°	53.8	6.2
40°-50°	90.6	10.4
50°-60°	180.9	20.8
60°-70°	315.4	36.3
70°-80°	151.2	17.4
80°-90°	7.8	0.9
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°	867.8	100.0
0°-180°	867.8	100.0



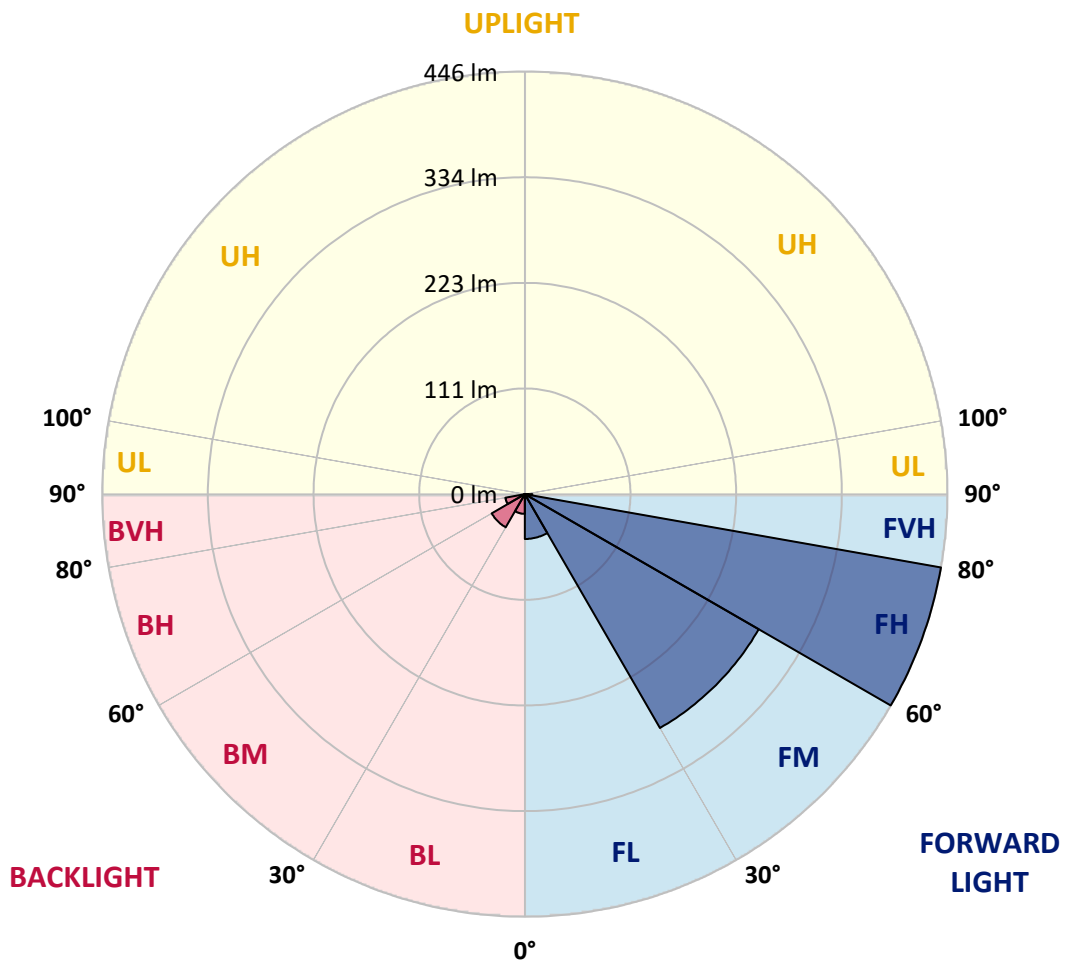
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.3	5.5			
FM (30°-60°)	284.9	32.8			
FH (60°-80°)	445.8	51.4			G0/660
FVH (80°-90°)	7.7	0.9			G0/10
BL (0°-30°)	20.8	2.4	B0/110		
BM (30°-60°)	40.4	4.7	B0/220		
BH (60°-80°)	20.9	2.4	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
2.5°	83.5	82.8	82.2	82.2	80.8	79.5	80.2	78.2	77.5	76.2	75.5
5°	94.9	93.5	92.9	91.5	89.5	85.5	84.2	83.5	81.5	77.5	76.2
7.5°	108.2	106.2	106.2	103.5	98.9	94.2	92.9	90.2	86.2	82.2	79.5
10°	117.6	116.9	114.2	110.9	107.5	102.2	100.9	98.2	92.9	88.8	82.8
12.5°	124.9	122.9	122.2	118.2	112.2	110.2	107.5	106.2	99.5	93.5	87.5
15°	126.9	128.3	124.2	120.2	117.6	113.6	112.9	110.2	105.5	100.2	91.5
17.5°	126.9	126.2	125.6	121.6	118.9	116.2	115.6	114.2	111.6	104.9	96.2
20°	122.2	122.2	122.2	119.6	118.2	117.6	117.6	117.6	116.2	108.9	100.2
22.5°	117.6	118.2	118.9	116.9	118.9	118.2	118.2	118.9	116.9	113.6	104.2
25°	118.2	116.9	117.6	115.6	118.2	120.2	121.6	120.9	118.9	114.2	108.2
27.5°	116.9	118.2	117.6	116.9	118.9	122.2	122.2	122.9	120.2	116.2	109.5
30°	119.6	120.2	119.6	117.6	118.2	123.6	122.2	123.6	124.2	120.9	115.6
32.5°	132.3	128.9	124.9	122.2	124.9	127.6	127.6	130.3	130.3	129.6	122.9
35°	152.3	138.9	130.9	126.9	126.9	131.6	132.9	136.3	142.3	135.6	126.9
37.5°	168.3	151.6	138.9	136.9	134.3	140.9	142.3	145.0	153.0	141.6	131.6
40°	196.4	188.4	170.3	145.0	140.9	150.3	153.0	157.0	156.3	145.6	138.9
42.5°	239.1	232.5	213.1	178.4	146.3	149.0	149.6	154.3	165.7	159.0	152.3
45°	282.6	279.9	260.5	217.8	168.3	162.3	161.7	166.3	180.4	175.7	165.7
47.5°	311.3	314.6	309.9	262.5	204.4	180.4	179.7	185.0	202.4	201.7	185.7
50°	334.0	330.7	336.0	316.0	250.5	207.1	202.4	207.7	234.5	236.5	223.8
52.5°	376.7	378.7	365.4	362.7	319.3	251.8	241.8	244.5	277.2	286.6	275.9
55°	418.2	414.2	402.1	402.8	382.8	307.3	289.9	293.2	339.3	350.7	336.0
56°	428.2	422.2	417.5	425.5	408.1	328.0	311.3	311.9	366.1	379.4	366.1
57°	433.5	428.2	432.2	446.9	441.5	350.7	336.0	341.3	397.5	404.8	399.5
58°	447.6	436.9	444.9	460.9	467.6	379.4	359.4	373.4	428.2	424.8	445.5
59°	449.6	448.9	461.6	487.6	499.7	409.5	390.1	398.1	454.9	454.9	487.6
60°	470.3	460.9	477.6	504.3	514.3	446.2	426.2	433.5	489.6	485.6	533.7
61°	484.3	480.3	498.3	524.4	539.1	482.3	461.6	469.6	513.7	521.0	597.2
62°	497.0	501.0	519.0	553.1	562.4	514.3	500.3	504.3	548.4	561.8	658.6
63°	505.7	511.7	546.4	575.8	590.5	558.4	530.4	530.4	575.1	603.2	704.1
64°	509.0	515.7	560.4	608.5	631.2	588.5	569.1	555.8	613.2	636.6	734.8
65°	489.6	499.0	565.1	628.6	678.0	631.9	606.5	593.2	657.3	671.3	767.5
66°	464.9	474.9	549.1	637.3	702.1	684.7	650.6	644.6	697.4	694.7	756.8
67°	445.5	442.2	521.7	627.9	726.8	754.8	718.1	700.7	729.4	701.4	717.4
67.5°	430.2	426.2	500.3	617.9	735.5	777.5	763.5	731.4	745.5	699.4	692.7
68°	397.5	410.1	478.9	604.5	738.1	812.9	801.6	763.5	760.8	683.4	666.0
69°	352.7	346.0	422.8	565.1	723.4	867.0	857.7	808.9	766.8	648.6	576.5
70°	275.9	276.5	350.0	497.0	689.4	895.1	896.4	830.3	746.8	595.2	462.2
71°	223.8	219.1	281.9	428.8	648.6	895.8	914.5	828.3	707.4	515.7	359.4
72°	157.6	158.3	211.1	345.3	573.1	873.7	881.1	783.5	633.9	417.5	249.2
72.5°	133.6	136.3	187.0	314.0	524.4	847.0	852.4	746.1	585.2	360.0	203.7
73°	104.9	108.2	157.6	265.2	493.6	812.3	819.6	704.1	530.4	314.0	162.3
74°	71.5	72.8	111.6	202.4	402.8	725.4	730.1	617.2	441.5	220.4	102.2
75°	54.8	56.1	76.8	147.0	324.0	642.6	622.6	512.3	332.7	136.9	60.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
77.5°	17.4	18.7	31.4	62.8	151.0	330.7	332.0	265.2	142.3	52.1	16.0
80°	10.0	10.7	14.0	26.1	62.1	104.9	114.2	102.9	56.8	27.4	6.7
82.5°	5.3	5.3	8.0	14.0	28.7	28.1	30.7	38.1	28.1	21.4	3.3
85°	2.0	2.0	4.7	8.0	12.7	9.4	9.4	14.7	18.0	17.4	1.3
87.5°	0.7	0.7	2.7	4.0	4.7	4.0	3.3	4.0	9.4	12.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
2.5°	74.1	74.1	72.8	72.1	72.1	71.5	71.5	70.1	70.8	70.1	70.8
5°	74.8	72.8	72.1	70.8	68.8	68.8	67.5	67.5	67.5	67.5	68.8
7.5°	76.8	74.8	72.1	70.1	67.5	66.8	65.5	64.8	65.5	66.1	64.8
10°	79.5	77.5	74.1	69.5	67.5	64.8	62.8	60.8	58.1	58.1	58.1
12.5°	83.5	80.2	75.5	70.8	66.8	62.8	54.8	47.4	42.1	41.4	42.1
15°	88.8	84.2	76.8	71.5	65.5	52.8	39.4	32.1	30.1	30.7	30.7
17.5°	91.5	87.5	78.2	72.8	58.1	38.7	28.7	26.7	27.4	28.7	29.4
20°	96.2	90.8	81.5	70.8	45.4	28.1	26.1	25.4	26.1	27.4	28.1
22.5°	100.9	93.5	84.8	64.8	31.4	24.0	24.7	24.7	25.4	26.1	26.7
25°	104.2	99.5	88.8	54.1	24.0	22.7	23.4	24.0	24.0	25.4	26.1
27.5°	106.9	101.5	89.5	40.7	21.4	21.4	21.4	22.7	22.7	24.0	24.0
30°	112.2	108.9	89.5	28.1	20.0	19.4	19.4	20.7	21.4	22.7	22.7
32.5°	119.6	117.6	85.5	22.0	18.7	18.0	18.0	18.7	19.4	20.7	20.7
35°	125.6	123.6	78.2	19.4	18.0	16.7	16.7	16.0	16.7	17.4	18.0
37.5°	132.9	132.9	68.1	18.0	17.4	16.0	14.7	14.0	13.4	13.4	13.4
40°	141.6	144.3	55.4	17.4	16.0	15.4	13.4	12.0	10.0	9.4	10.0
42.5°	155.6	158.3	38.7	16.7	15.4	14.0	11.4	9.4	7.3	6.7	6.7
45°	170.3	175.0	26.7	16.0	15.4	12.0	9.4	6.7	5.3	4.7	5.3
47.5°	194.4	195.1	21.4	15.4	15.4	10.7	6.7	5.3	4.0	4.0	4.0
50°	238.5	215.8	18.7	14.7	14.0	9.4	5.3	4.0	4.0	4.0	4.0
52.5°	299.3	244.5	16.7	14.0	12.0	7.3	4.7	4.0	4.0	4.0	4.0
55°	357.4	265.2	14.0	12.0	9.4	6.7	4.7	4.0	3.3	3.3	3.3
56°	380.1	270.5	12.7	10.7	8.7	6.0	4.7	4.0	3.3	2.7	2.7
57°	408.1	276.5	11.4	10.0	7.3	5.3	4.7	3.3	3.3	2.7	2.7
58°	440.9	285.2	10.0	8.7	6.7	5.3	4.0	3.3	3.3	2.7	2.7
59°	468.3	289.9	8.7	8.0	6.0	4.7	4.0	3.3	2.7	2.0	2.0
60°	509.0	293.9	7.3	6.7	5.3	4.7	4.0	3.3	2.7	2.0	1.3
61°	549.1	298.6	6.7	6.0	4.7	4.0	3.3	2.7	2.0	1.3	1.3
62°	581.1	296.6	6.0	4.7	4.0	4.0	3.3	2.0	1.3	0.7	0.0
63°	594.5	293.9	5.3	4.0	3.3	3.3	2.7	1.3	0.7	0.0	0.0
64°	607.9	284.6	4.7	4.0	3.3	2.7	2.7	1.3	0.7	0.0	0.0
65°	611.2	267.9	4.0	3.3	2.7	2.0	2.0	0.7	0.0	0.0	0.0
66°	581.8	248.5	4.0	2.7	2.0	2.0	1.3	0.7	0.0	0.0	0.0
67°	543.7	216.4	3.3	2.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0
67.5°	518.4	199.1	3.3	2.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0
68°	481.6	182.4	2.7	2.0	1.3	1.3	0.7	0.0	0.0	0.0	0.0
69°	406.1	142.9	2.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
70°	318.0	112.2	2.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
71°	241.1	78.2	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
72°	158.3	55.4	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	131.6	40.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
73°	98.9	32.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
74°	63.5	19.4	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	38.1	12.7	1.3	0.7	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°
77.5°	10.7	3.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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

(END OF REPORT)