

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: P679276

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

Issue Date: 04/26/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P679276  
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-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @500mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (16) 1620 CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

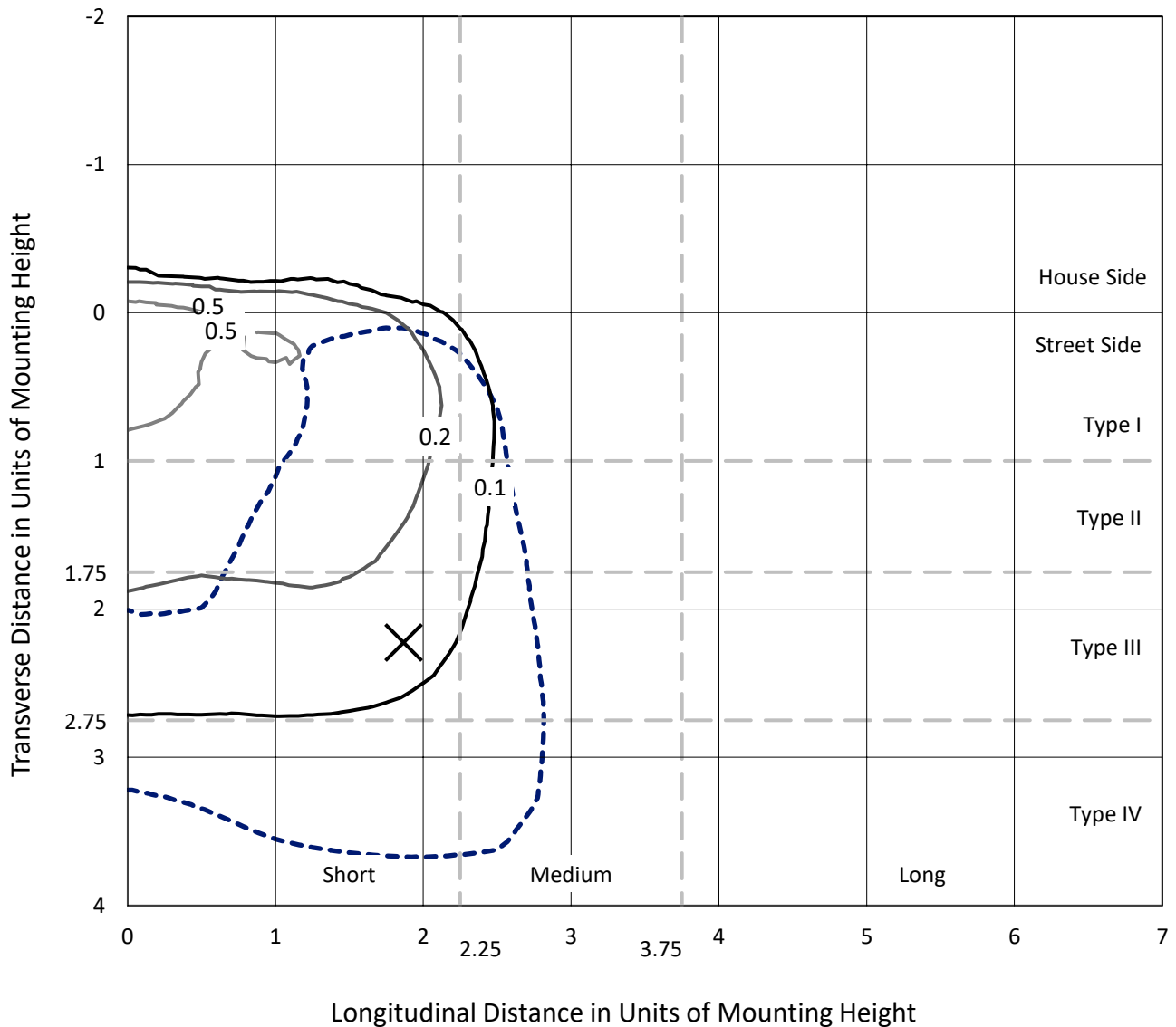
Lumens per Lamp: N/A  
Luminaire Lumens: 977.4 lumens  
Efficiency: N/A  
Efficacy: 43.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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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### Iso-Footcandle Lines of Horizontal Illumination

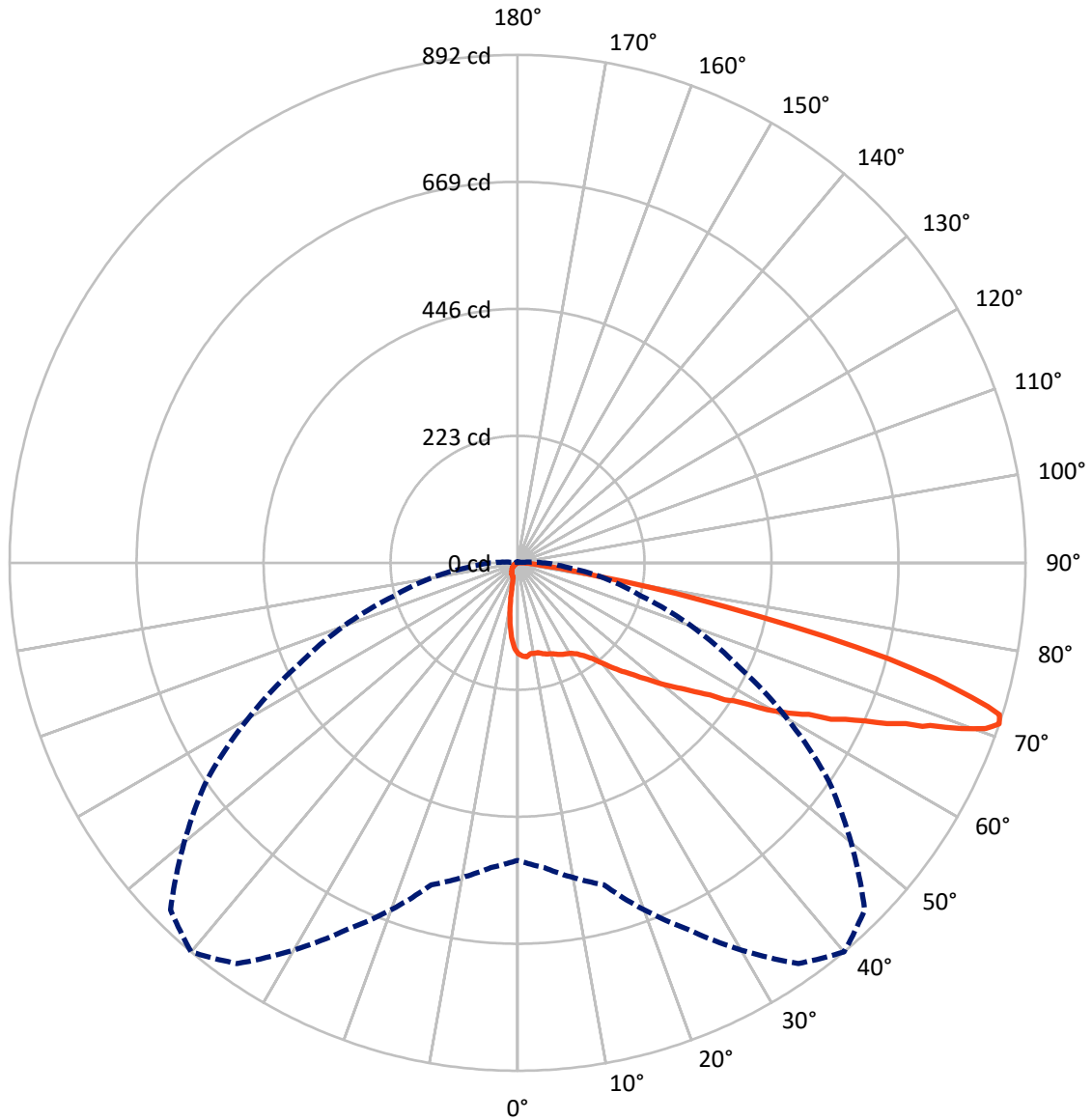
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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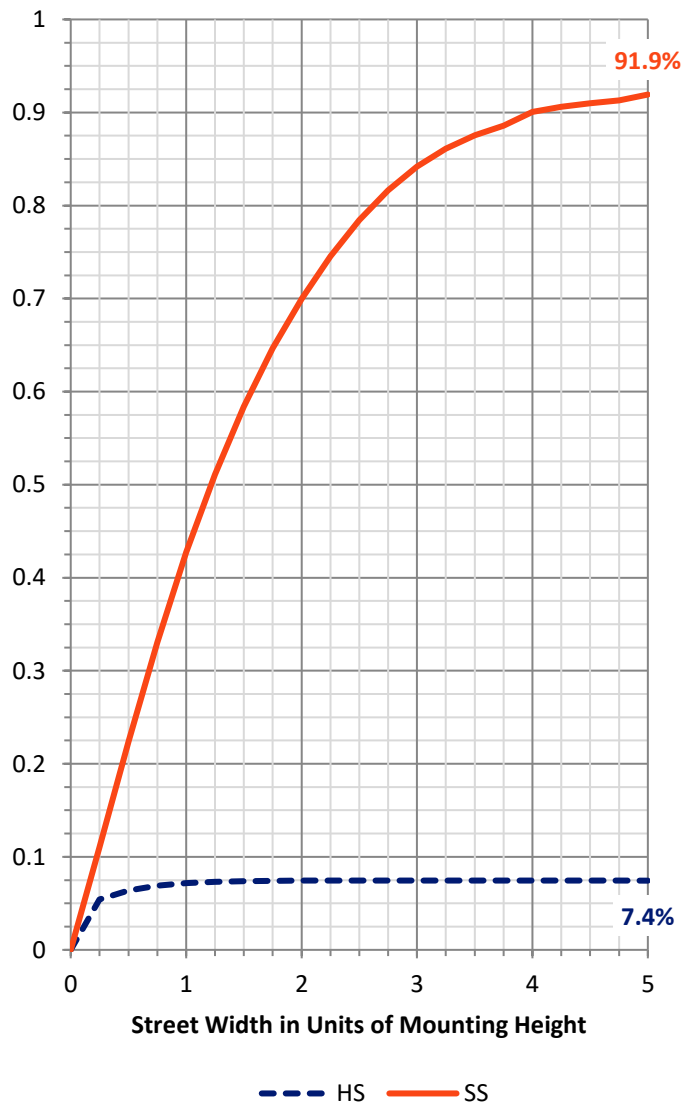
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	73.1	0.0	73.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	904.3	0.0	904.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	977.4	0.0	977.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.5	1.4
10°-20°	32.2	3.3
20°-30°	51.2	5.2
30°-40°	76.4	7.8
40°-50°	124.2	12.7
50°-60°	200.4	20.5
60°-70°	288.3	29.5
70°-80°	173.7	17.8
80°-90°	17.5	1.8
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°-90°	977.4	100.0
0°-180°	977.4	100.0

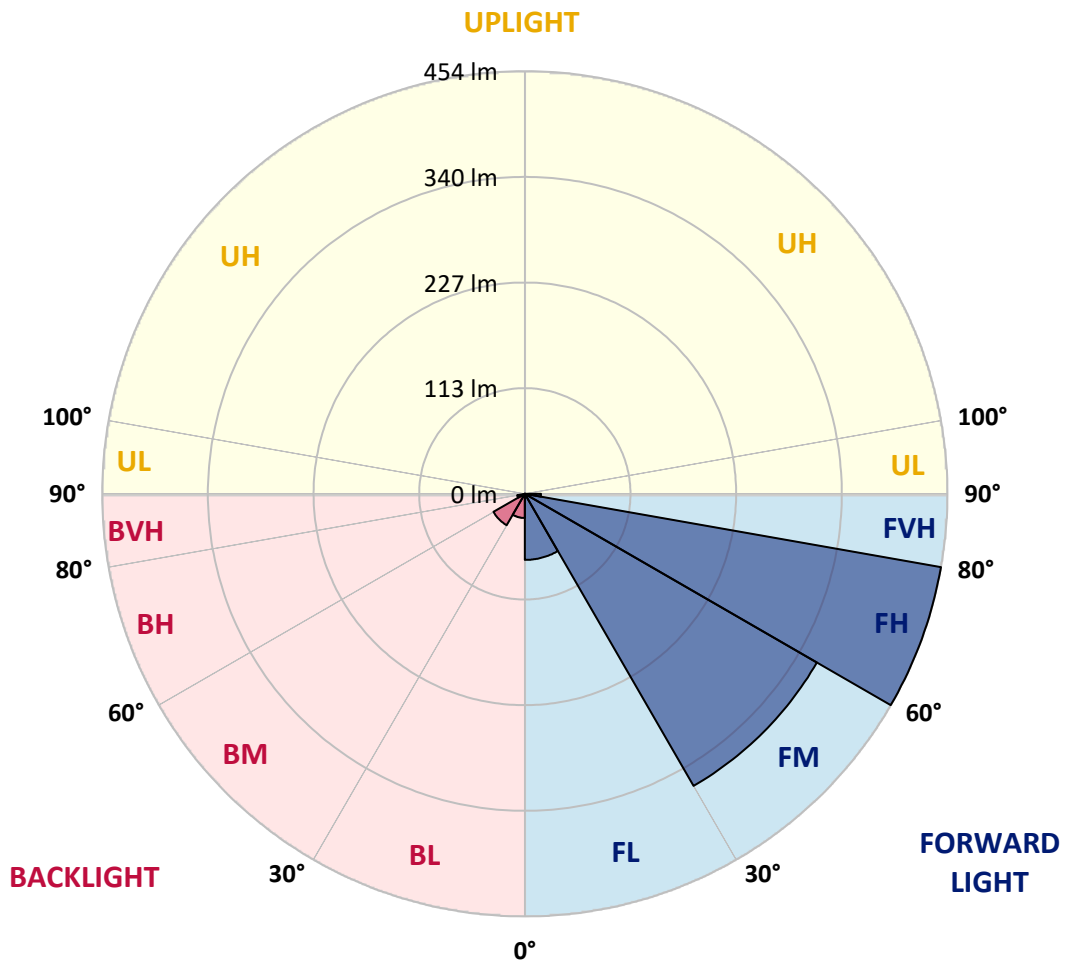


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	71.0	7.3			
FM (30°-60°)	362.1	37.1			
FH (60°-80°)	453.8	46.4			G0/660
FVH (80°-90°)	17.4	1.8			G1/100
BL (0°-30°)	26.0	2.7	B0/110		
BM (30°-60°)	38.9	4.0	B0/220		
BH (60°-80°)	8.2	0.8	B0/110		G0/110
BVH (80°-90°)	0.1	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-G1**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	159.6	159.6	159.6	159.6	159.6	159.6	159.6	159.6	159.6	159.6	159.6
2.5°	166.3	165.7	168.3	165.0	165.0	163.7	164.3	161.0	162.3	160.3	158.3
5°	165.7	166.3	165.7	165.0	166.3	165.7	164.3	164.3	161.0	159.6	156.3
7.5°	161.7	163.0	163.0	162.3	163.7	161.0	163.7	160.3	161.0	157.6	154.3
10°	159.0	159.6	160.3	161.0	160.3	161.7	162.3	160.3	159.6	157.0	153.0
12.5°	159.0	159.0	158.3	161.0	163.7	161.7	163.0	159.6	157.6	155.0	151.0
15°	155.6	157.6	159.0	163.0	165.7	165.7	165.0	163.0	160.3	158.3	154.3
17.5°	161.0	159.6	162.3	166.3	167.7	168.3	168.3	164.3	162.3	160.3	153.6
20°	164.3	165.0	166.3	171.0	171.7	170.3	172.3	167.0	163.7	161.0	160.3
22.5°	169.7	170.3	172.3	176.3	176.3	174.3	175.0	169.0	163.7	162.3	161.7
25°	175.7	175.7	178.4	181.7	181.7	178.4	176.3	170.3	166.3	168.3	165.7
27.5°	181.7	182.4	185.0	186.4	182.4	181.0	181.0	172.3	169.7	172.3	173.0
30°	191.0	191.7	194.4	192.4	187.7	184.4	185.7	175.7	172.3	181.0	175.7
32.5°	206.4	201.7	199.7	199.7	194.4	190.4	191.7	182.4	183.0	191.7	185.0
35°	217.1	215.1	213.1	209.7	202.4	200.4	201.7	191.7	193.7	205.1	197.7
37.5°	229.8	225.1	226.4	223.1	213.8	213.1	212.4	205.7	211.8	226.4	217.8
40°	242.5	239.1	236.5	234.5	231.8	233.1	232.5	223.1	232.5	257.8	242.5
42.5°	253.2	248.5	246.5	247.8	252.5	255.8	253.8	249.8	259.8	294.6	273.9
45°	259.2	258.5	255.8	264.5	273.2	277.9	283.9	275.2	294.6	335.3	312.0
47.5°	275.9	273.2	267.2	286.6	298.6	305.3	309.9	304.6	334.0	381.4	350.7
50°	291.9	291.2	279.2	309.9	322.6	337.3	346.0	348.7	378.8	436.9	392.8
52.5°	316.6	314.0	300.6	329.3	356.0	368.7	388.1	388.8	425.5	493.0	416.2
55°	346.7	340.0	325.3	364.7	395.4	409.5	433.5	442.2	479.6	513.0	430.9
56°	359.4	351.4	339.3	374.1	416.2	436.2	450.2	472.3	503.7	529.0	437.5
57°	375.4	360.0	351.4	389.4	436.9	450.2	472.9	490.3	521.7	539.1	444.2
58°	383.4	373.4	366.7	408.8	456.9	475.6	501.7	515.0	533.7	542.4	449.6
59°	399.5	390.8	376.7	422.8	482.3	508.3	525.7	540.4	545.1	555.8	463.6
60°	410.1	395.4	388.1	440.2	500.3	531.7	551.1	557.1	558.4	570.5	479.6
61°	421.5	408.8	403.5	455.6	529.0	555.8	569.1	575.1	573.8	592.5	489.6
62°	434.2	421.5	415.5	472.3	549.1	576.5	601.2	593.2	593.2	611.9	492.3
63°	437.5	428.2	426.8	488.3	571.8	615.2	620.6	617.9	620.6	636.6	483.6
64°	452.2	448.2	443.5	511.0	601.2	637.9	641.9	641.9	645.3	654.6	470.9
65°	459.6	461.6	464.9	529.0	638.6	669.3	669.3	677.3	665.3	654.6	443.5
66°	476.3	474.3	486.3	564.5	677.3	707.4	716.8	714.1	684.7	633.9	410.8
67°	497.0	497.7	517.7	590.5	709.4	738.1	757.5	748.1	684.7	584.5	360.7
67.5°	515.0	515.0	526.4	611.2	730.1	766.9	781.5	760.8	673.3	556.4	322.0
68°	516.4	519.0	540.4	624.6	752.8	778.9	806.9	767.5	652.6	524.4	290.6
69°	536.4	544.4	572.5	671.3	802.9	831.6	847.0	754.8	605.2	444.9	211.1
70°	547.1	544.4	591.2	696.0	839.7	871.7	869.7	736.1	517.0	341.3	138.9
71°	522.4	537.1	585.2	710.7	859.0	891.8	861.7	666.7	425.5	224.4	84.2
72°	499.7	497.7	577.1	701.4	852.4	887.1	834.3	590.5	314.0	145.0	53.4
72.5°	466.3	468.3	558.4	684.7	837.7	863.7	796.9	535.7	260.5	108.2	43.4
73°	424.8	452.2	542.4	670.0	821.6	831.6	752.8	467.6	215.8	90.2	32.1
74°	366.7	365.4	495.6	618.6	752.8	762.2	657.3	366.7	150.3	53.4	21.4
75°	273.2	283.2	424.8	546.4	686.0	672.7	541.7	260.5	94.2	32.1	14.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
77.5°	149.6	147.6	196.4	315.3	416.8	377.4	269.2	113.6	38.7	14.0	7.3
80°	99.5	100.2	115.6	153.6	179.7	142.9	108.9	70.8	24.0	7.3	4.7
82.5°	43.4	45.4	66.8	78.2	76.2	60.1	54.8	65.5	14.0	4.7	4.0
85°	13.4	14.0	36.1	48.1	44.8	26.7	26.1	66.8	4.0	2.7	2.7
87.5°	10.0	10.0	12.0	26.1	24.7	14.7	22.0	28.7	0.7	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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	159.6	159.6	159.6	159.6	159.6	159.6	159.6	159.6	159.6	159.6	159.6
2.5°	158.3	157.0	154.3	154.3	153.6	151.6	149.0	147.6	146.3	147.0	145.6
5°	155.0	153.0	150.3	146.3	140.9	135.6	127.6	123.6	121.6	118.9	115.6
7.5°	153.0	149.6	146.3	136.9	125.6	113.6	101.5	93.5	86.2	81.5	81.5
10°	150.3	148.3	139.6	125.6	106.2	88.2	71.5	56.8	46.8	44.1	43.4
12.5°	148.3	145.6	135.6	112.9	86.2	60.8	40.7	32.7	29.4	28.7	28.7
15°	148.3	145.0	128.9	97.5	64.1	37.4	28.7	26.7	26.7	26.7	26.1
17.5°	151.0	146.3	122.9	82.8	42.8	28.1	26.1	26.1	25.4	25.4	25.4
20°	154.3	145.6	116.9	67.5	30.7	25.4	24.7	24.7	24.7	24.7	24.0
22.5°	157.0	147.6	109.6	48.1	26.1	24.7	24.0	24.0	24.0	23.4	24.0
25°	159.6	147.0	98.2	34.7	24.0	23.4	22.7	22.7	22.7	22.7	22.0
27.5°	161.7	145.6	87.5	26.7	22.7	22.7	22.0	21.4	21.4	21.4	21.4
30°	165.7	146.3	74.8	23.4	22.0	21.4	20.7	20.7	20.7	20.7	20.0
32.5°	169.7	145.6	58.8	22.0	20.7	19.4	19.4	19.4	19.4	19.4	19.4
35°	177.0	147.6	42.1	20.7	19.4	18.0	18.0	18.0	18.0	18.0	18.0
37.5°	191.7	153.6	32.1	19.4	18.0	16.7	16.7	16.7	16.7	16.0	16.7
40°	211.1	159.0	24.7	18.0	16.7	16.0	15.4	15.4	15.4	14.7	14.7
42.5°	232.5	171.0	20.7	16.7	15.4	14.7	14.0	14.0	13.4	12.7	12.7
45°	259.2	179.0	18.7	15.4	14.0	13.4	13.4	12.7	11.4	10.7	11.4
47.5°	288.6	189.7	16.7	14.0	12.7	12.0	12.0	10.7	10.0	9.4	8.7
50°	316.0	197.7	15.4	12.7	12.0	11.4	10.7	9.4	8.0	7.3	7.3
52.5°	331.3	191.7	14.0	12.0	10.7	10.0	9.4	7.3	6.0	5.3	5.3
55°	336.7	179.0	12.7	10.7	9.4	8.7	7.3	6.0	4.7	4.0	4.0
56°	344.7	173.0	12.0	10.0	8.7	8.0	7.3	5.3	4.0	3.3	2.7
57°	349.4	167.7	11.4	9.4	8.7	8.0	6.7	4.7	3.3	2.7	2.7
58°	356.7	159.6	10.7	9.4	8.0	7.3	6.0	4.7	2.7	2.0	2.0
59°	364.7	149.0	10.0	8.7	7.3	6.7	5.3	3.3	2.7	2.0	1.3
60°	368.1	135.6	9.4	8.0	7.3	6.0	4.7	3.3	2.0	1.3	0.7
61°	367.4	120.9	8.7	7.3	6.7	6.0	4.7	2.7	1.3	0.7	0.7
62°	363.4	102.9	8.0	6.7	6.0	5.3	4.0	2.0	0.7	0.0	0.0
63°	346.7	84.8	7.3	6.0	5.3	4.7	3.3	1.3	0.0	0.0	0.0
64°	322.6	68.1	6.7	6.0	5.3	4.0	2.7	1.3	0.0	0.0	0.0
65°	294.6	52.8	6.7	5.3	4.7	4.0	2.7	0.7	0.0	0.0	0.0
66°	259.2	41.4	6.0	4.7	4.0	3.3	2.0	0.0	0.0	0.0	0.0
67°	217.8	30.7	5.3	4.7	4.0	2.7	1.3	0.0	0.0	0.0	0.0
67.5°	190.4	27.4	4.7	4.7	4.0	2.7	1.3	0.0	0.0	0.0	0.0
68°	165.0	22.0	4.7	4.0	3.3	2.0	0.7	0.0	0.0	0.0	0.0
69°	116.2	15.4	4.0	3.3	3.3	2.0	0.7	0.0	0.0	0.0	0.0
70°	72.1	11.4	4.0	3.3	2.7	1.3	0.0	0.0	0.0	0.0	0.0
71°	44.1	9.4	3.3	2.7	2.0	1.3	0.0	0.0	0.0	0.0	0.0
72°	25.4	7.3	2.7	2.7	2.0	0.7	0.0	0.0	0.0	0.0	0.0
72.5°	21.4	6.7	2.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
73°	16.7	6.0	2.0	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
74°	11.4	4.7	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0
75°	8.7	3.3	1.3	0.7	0.7	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°	5.3	2.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	0.7	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)