

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: P679708

Luminaire Tested: **CCW-SA-1-AMB-U-T4FT-HSS**

Issue Date: 04/26/2023



Test Information

Test Method: LM-79-08
Report Number: P679708
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-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @500mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

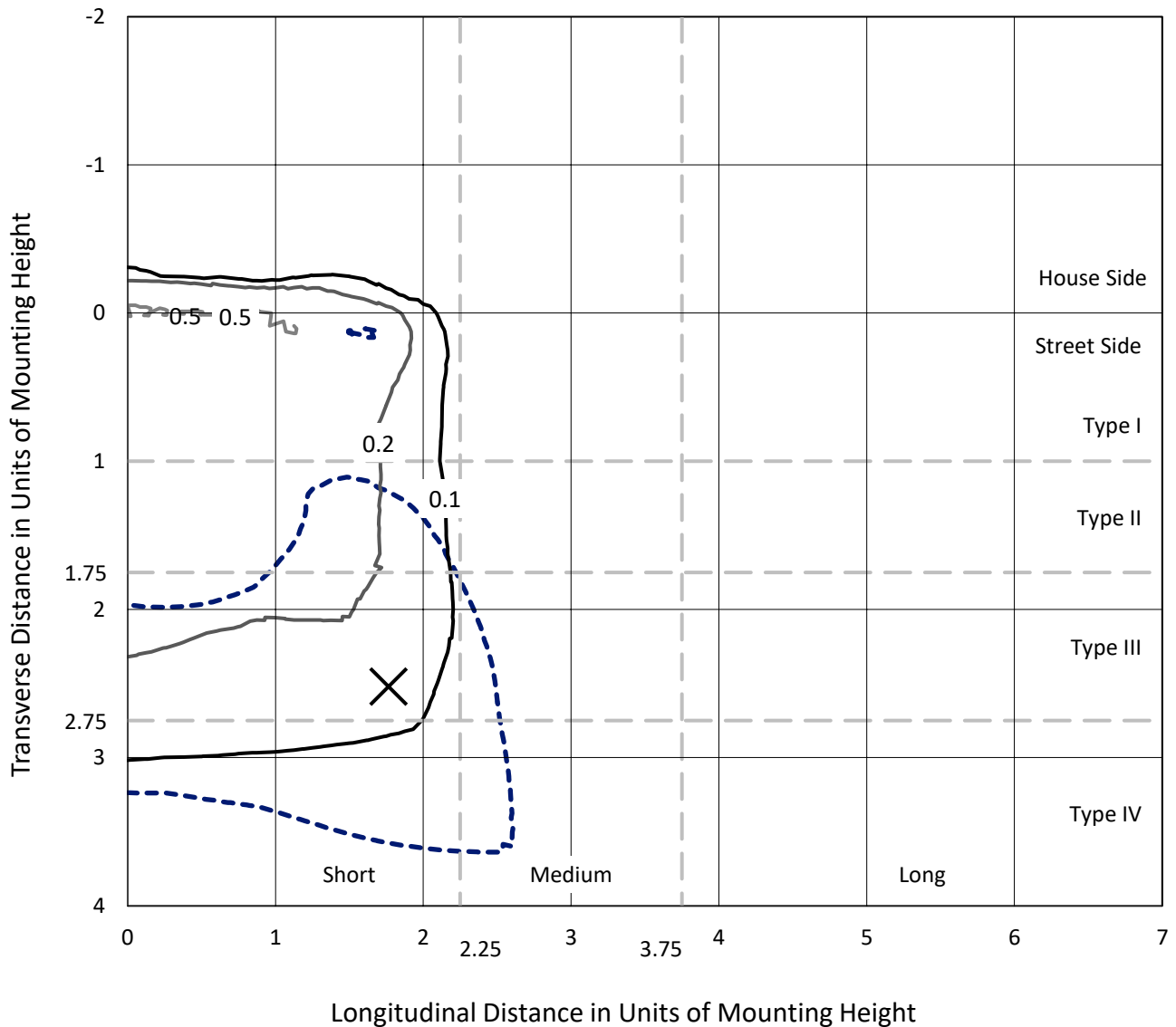
Lumens per Lamp: N/A
Luminaire Lumens: 873.7 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

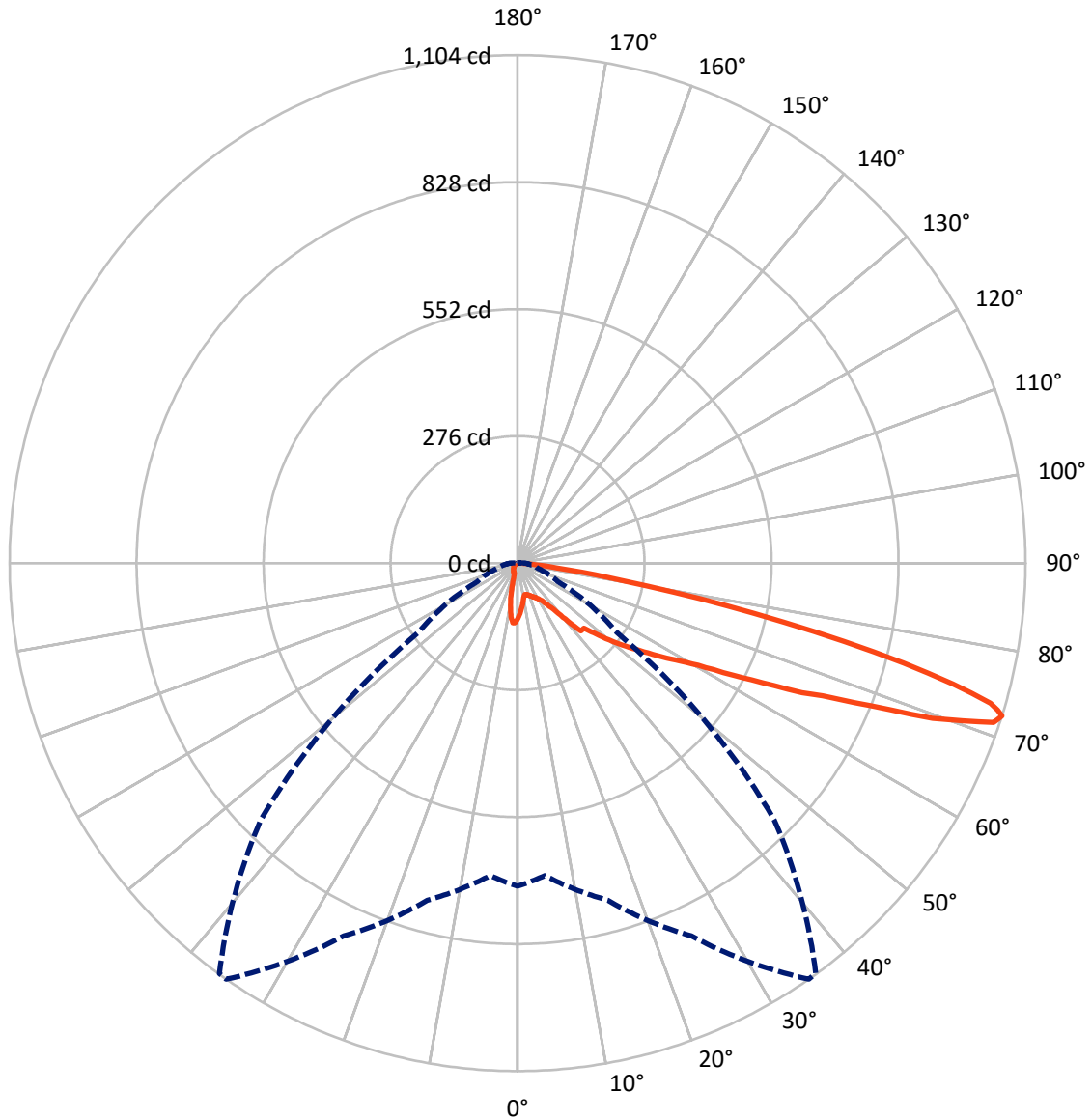
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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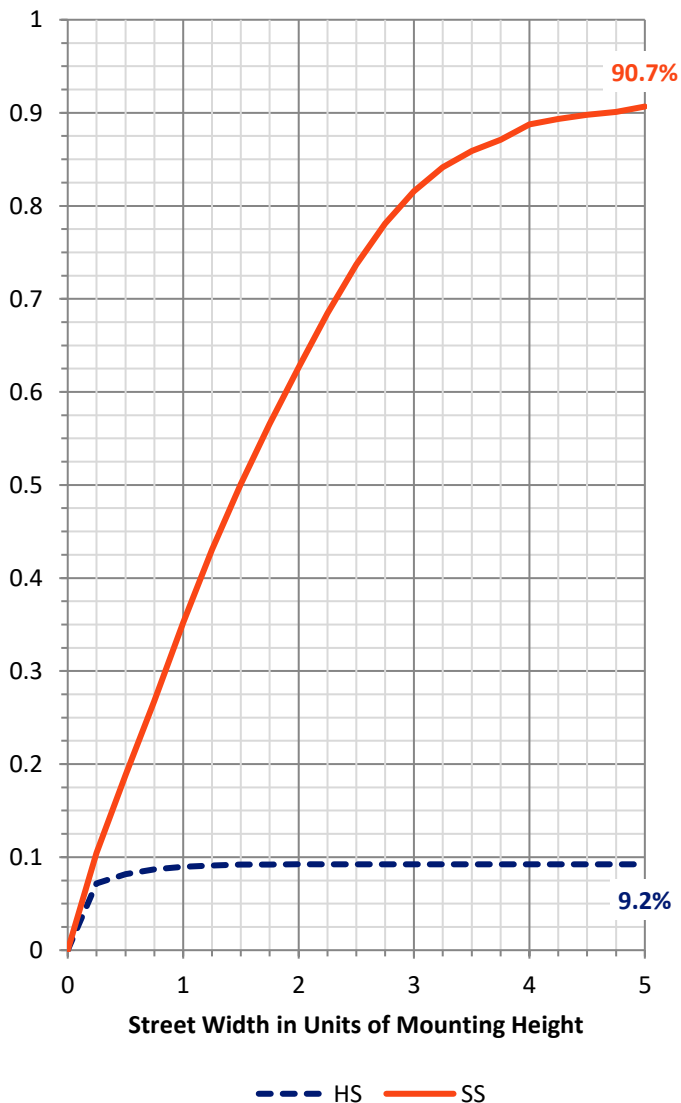
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	81.1	0.0	81.1
	% Fixture	9.3	0.0	9.3
Street Side	Lumens	792.6	0.0	792.6
	% Fixture	90.7	0.0	90.7
Total	Lumens	873.7	0.0	873.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	1.2
10°-20°	22.5	2.6
20°-30°	33.8	3.9
30°-40°	56.6	6.5
40°-50°	106.8	12.2
50°-60°	190.4	21.8
60°-70°	273.0	31.2
70°-80°	170.2	19.5
80°-90°	10.1	1.2
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°-90°	873.7	100.0
0°-180°	873.7	100.0



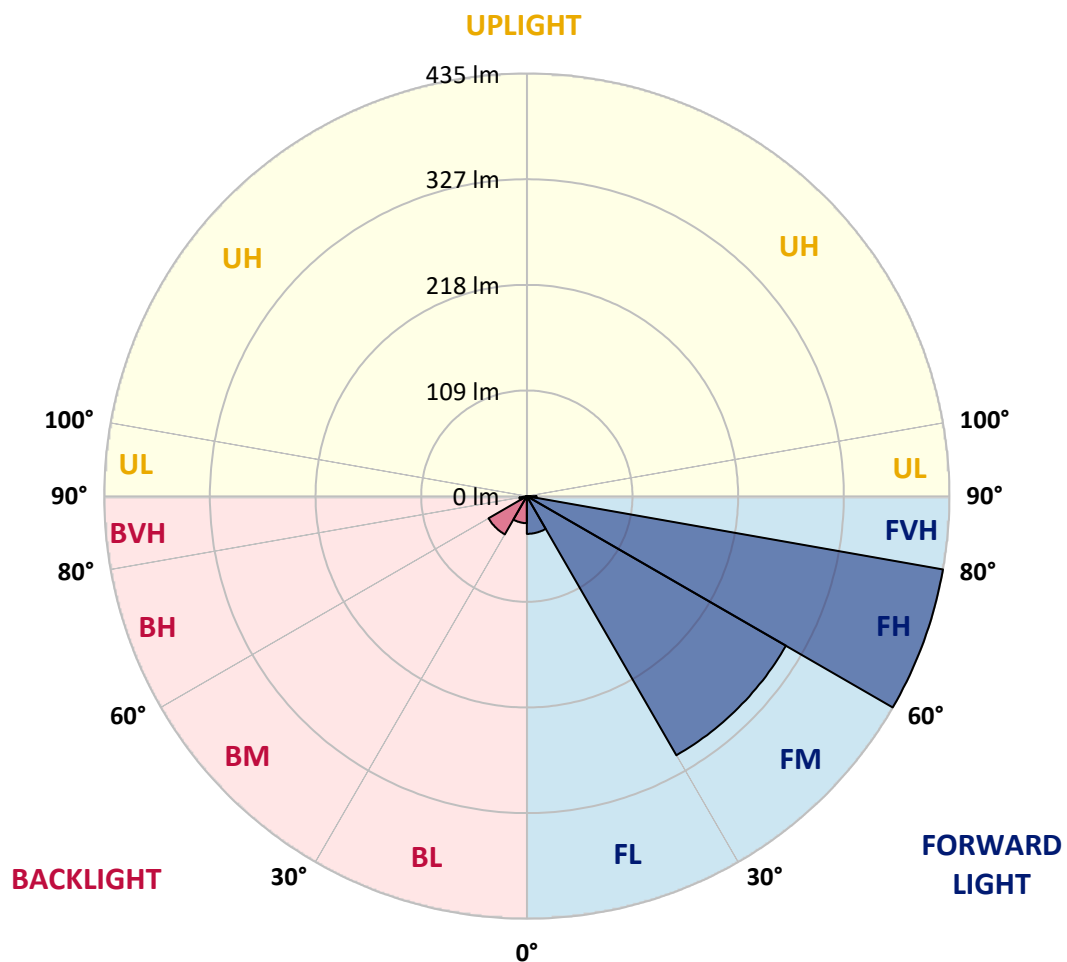
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	38.9	4.4			
FM (30°-60°)	308.3	35.3			
FH (60°-80°)	435.4	49.8			G0/660
FVH (80°-90°)	10.1	1.2			G1/100
BL (0°-30°)	27.8	3.2	B0/110		
BM (30°-60°)	45.5	5.2	B0/220		
BH (60°-80°)	7.8	0.9	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	105.5	105.5	106.2	108.2	108.2	108.2	110.2	111.6	113.6	116.9	118.2
5°	92.2	91.5	92.9	94.9	96.9	95.5	100.2	104.9	108.9	112.9	118.9
7.5°	76.2	75.5	76.2	79.5	84.8	84.2	89.5	96.2	102.2	109.6	117.6
10°	66.1	66.8	66.8	69.5	74.8	74.8	81.5	90.2	98.9	107.6	117.6
12.5°	66.1	65.5	65.5	66.8	70.1	70.1	76.8	85.5	96.2	106.9	118.9
15°	67.5	67.5	66.1	66.8	70.8	70.8	75.5	84.2	94.2	108.2	122.2
17.5°	70.8	70.1	67.5	68.8	72.8	72.8	76.8	85.5	94.2	108.9	123.6
20°	74.8	73.5	70.1	71.5	74.8	74.8	79.5	86.2	94.9	107.6	126.3
22.5°	80.2	78.2	72.8	74.1	78.2	78.2	83.5	89.5	96.2	109.6	130.3
25°	85.5	82.8	76.2	76.8	81.5	80.8	86.8	93.5	98.2	110.9	136.9
27.5°	89.5	88.2	81.5	80.8	84.8	84.8	90.8	98.9	102.9	114.2	145.6
30°	94.9	94.2	87.5	86.8	90.2	89.5	96.2	106.2	112.2	121.6	159.7
32.5°	100.2	99.5	94.2	92.9	97.5	97.5	104.9	118.9	127.6	132.3	171.7
35°	130.9	125.6	110.9	101.5	110.2	109.6	120.9	137.6	138.9	138.9	189.7
37.5°	172.3	167.7	152.3	132.3	127.6	127.6	139.6	150.3	149.6	152.3	215.1
40°	201.1	197.1	182.4	167.0	159.7	159.7	161.0	165.0	167.0	171.7	251.2
42.5°	217.1	211.1	200.4	198.4	201.7	201.1	171.0	185.0	193.7	197.1	291.3
45°	237.8	229.1	214.4	209.1	201.7	199.7	195.1	215.1	229.1	229.8	330.7
47.5°	255.8	249.2	237.1	234.5	229.8	226.5	239.1	263.9	272.5	267.2	390.8
50°	275.9	274.6	261.9	266.5	267.2	266.5	287.2	318.0	320.0	312.6	441.6
52.5°	305.3	300.6	291.3	294.6	303.3	305.3	341.4	384.8	365.4	348.7	499.0
55°	333.3	324.7	321.3	328.7	344.0	345.4	406.2	439.6	394.8	387.4	539.8
56°	342.0	336.7	338.0	340.0	364.1	362.1	432.9	466.3	405.5	395.5	557.1
57°	358.7	349.4	353.4	357.4	384.1	380.1	460.3	485.6	408.2	408.2	565.1
58°	371.4	368.1	372.8	378.1	402.8	404.1	490.3	502.3	416.2	414.2	576.5
59°	400.1	386.1	392.8	394.1	425.5	432.9	527.1	517.0	420.2	420.8	579.2
60°	424.9	418.2	412.8	415.5	450.9	458.9	559.8	527.7	416.2	428.2	575.2
61°	469.6	450.9	441.6	444.2	485.0	491.7	581.2	535.7	420.8	430.9	542.4
62°	501.7	493.0	468.3	473.6	527.1	532.4	608.6	543.8	420.8	420.2	507.0
63°	547.1	533.1	514.4	513.7	567.8	572.5	639.3	551.8	420.8	406.2	451.6
64°	595.2	580.5	561.1	555.8	617.9	617.2	670.0	555.1	420.8	380.8	393.5
65°	651.3	631.9	605.9	612.6	679.4	670.0	698.1	561.8	410.8	340.0	330.7
66°	700.7	681.4	666.7	672.7	722.8	724.8	742.8	568.5	391.5	301.3	253.2
67°	735.5	716.8	712.8	731.5	791.6	796.9	786.9	566.5	356.1	245.8	189.0
67.5°	757.5	747.5	734.1	768.9	827.0	828.3	805.0	559.8	336.7	213.8	166.3
68°	772.9	752.2	758.2	798.9	869.8	876.4	831.7	549.8	312.0	187.7	134.9
69°	783.6	771.6	788.3	845.7	962.6	957.3	877.1	510.4	250.5	136.3	90.8
70°	793.6	771.6	804.3	896.5	1026.7	1027.4	903.8	439.6	187.7	95.5	59.5
71°	770.9	769.6	799.6	911.2	1090.9	1079.5	869.8	347.4	136.9	66.8	39.4
72°	702.1	681.4	758.2	893.8	1103.6	1102.2	788.9	263.2	98.2	47.4	24.7
72.5°	599.9	612.6	725.5	877.1	1090.9	1091.5	733.5	229.8	84.2	40.1	20.0
73°	523.1	534.4	662.0	845.0	1071.5	1053.5	674.7	192.4	71.5	34.1	15.4
74°	390.8	376.8	527.1	754.2	982.0	955.3	567.1	136.3	52.8	26.1	10.7
75°	271.9	278.6	401.5	634.6	866.4	849.0	432.2	96.2	39.4	22.0	8.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
77.5°	122.9	127.6	171.0	330.7	524.4	525.1	173.7	40.7	24.0	15.4	4.0
80°	39.4	44.1	78.2	149.0	227.1	214.4	58.8	20.7	16.0	12.7	2.0
82.5°	11.4	12.0	21.4	55.4	84.8	74.8	18.7	12.7	12.0	10.0	0.7
85°	5.3	5.3	9.4	24.0	29.4	25.4	7.3	6.7	8.7	7.3	0.7
87.5°	2.0	2.0	4.0	9.4	10.0	8.7	2.7	2.7	4.7	4.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	118.9	119.6	122.9	125.6	127.6	127.6	128.9	130.3	131.6	132.3	130.9
5°	120.2	121.6	126.3	132.3	132.3	133.6	130.3	129.6	126.9	128.3	127.6
7.5°	120.2	123.6	131.6	132.9	130.9	124.3	117.6	111.6	104.9	102.2	100.9
10°	122.2	126.3	133.6	130.3	120.9	107.6	92.9	82.2	73.5	70.1	68.8
12.5°	125.6	131.6	134.9	126.3	106.9	85.5	66.8	51.4	40.7	36.7	36.1
15°	128.3	136.3	137.6	116.9	88.2	59.5	35.4	27.4	24.7	24.0	24.0
17.5°	133.6	141.6	134.3	104.9	66.8	34.1	24.0	23.4	23.4	23.4	22.7
20°	136.9	147.0	132.9	89.5	44.1	24.0	22.0	22.0	22.7	22.0	22.7
22.5°	146.3	151.6	128.3	70.8	26.1	21.4	21.4	21.4	22.0	22.0	22.0
25°	153.6	157.0	118.9	51.4	20.7	20.0	20.7	20.7	21.4	21.4	21.4
27.5°	165.0	163.0	111.6	30.7	18.7	18.7	20.0	20.7	21.4	21.4	21.4
30°	179.7	172.3	98.2	21.4	17.4	17.4	18.0	20.0	21.4	21.4	21.4
32.5°	191.7	182.4	84.2	18.0	16.0	16.0	16.7	18.0	20.7	21.4	21.4
35°	212.4	193.1	66.8	16.0	15.4	15.4	15.4	16.7	19.4	21.4	21.4
37.5°	235.8	203.7	43.4	15.4	14.7	14.0	14.0	15.4	17.4	20.0	21.4
40°	267.2	216.4	26.1	14.0	14.0	13.4	13.4	14.0	15.4	18.0	18.7
42.5°	289.9	222.4	19.4	13.4	12.7	12.0	12.0	12.7	14.0	15.4	15.4
45°	313.3	225.8	14.7	12.7	12.0	11.4	11.4	11.4	12.7	12.0	12.0
47.5°	355.4	234.5	12.0	11.4	11.4	10.7	10.7	10.7	10.7	9.4	9.4
50°	388.8	247.8	10.0	10.0	10.0	10.0	10.0	9.4	8.7	8.0	8.0
52.5°	430.2	255.8	8.7	8.0	8.7	9.4	8.7	8.0	7.3	6.7	6.0
55°	458.9	249.2	7.3	6.7	7.3	8.0	7.3	6.0	5.3	5.3	4.7
56°	464.3	241.8	6.7	6.0	7.3	7.3	6.7	6.0	4.7	4.7	4.0
57°	471.6	233.1	6.7	5.3	6.7	6.7	6.0	5.3	4.7	4.0	4.0
58°	477.0	217.8	6.0	4.7	6.0	6.0	5.3	4.7	4.0	3.3	3.3
59°	477.6	199.7	5.3	4.0	5.3	5.3	4.7	4.0	3.3	2.7	2.7
60°	462.9	178.4	4.7	4.0	4.7	5.3	4.7	4.0	2.7	2.0	2.0
61°	436.9	156.3	4.7	3.3	4.0	4.7	4.0	3.3	2.0	1.3	1.3
62°	402.1	131.6	4.0	2.7	3.3	4.0	3.3	2.7	1.3	0.7	0.7
63°	357.4	110.2	3.3	2.7	2.7	3.3	3.3	2.0	0.7	0.0	0.0
64°	301.3	94.2	2.7	2.0	2.7	2.7	2.7	1.3	0.0	0.0	0.0
65°	239.1	73.5	2.7	2.0	2.0	2.7	2.0	0.7	0.0	0.0	0.0
66°	183.0	56.8	2.0	1.3	2.0	2.0	1.3	0.7	0.0	0.0	0.0
67°	132.9	44.1	2.0	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.0
67.5°	115.6	36.7	1.3	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.0
68°	92.9	32.7	1.3	0.7	1.3	0.7	0.7	0.0	0.0	0.0	0.0
69°	65.5	22.0	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
70°	44.1	14.7	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
71°	28.1	9.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72°	16.0	6.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.0	5.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73°	10.7	4.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	8.0	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.0	2.0	0.7	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°
77.5°	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	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)