

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: P678412

Luminaire Tested: **CCW-SA-1-AMB-U-T3**

Issue Date: 04/26/2023



Test Information

Test Method: LM-79-08
Report Number: P678412
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-T3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @500mA w/
T3 distribution lens
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1213.8 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

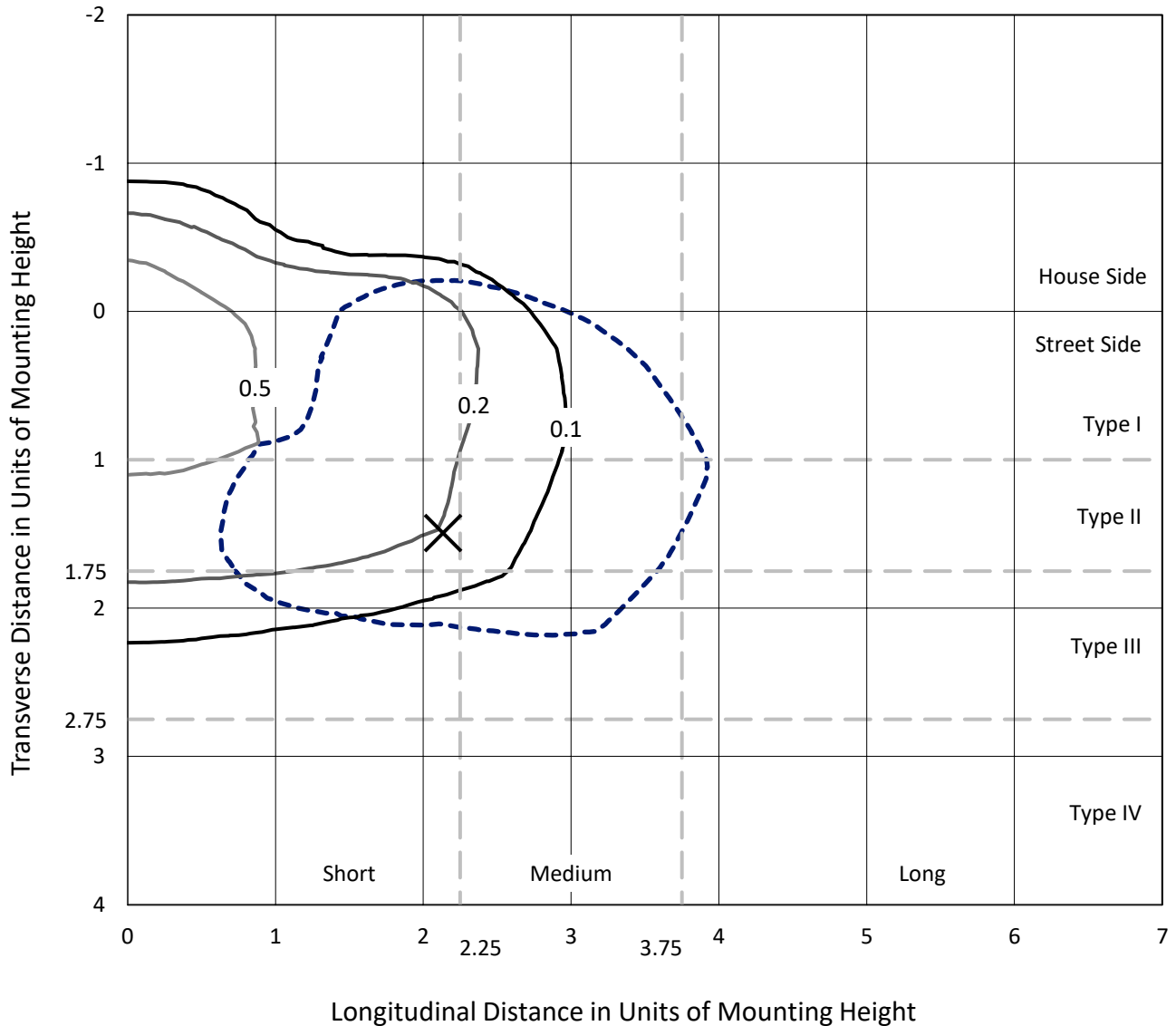
Input Watts (W): 22.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

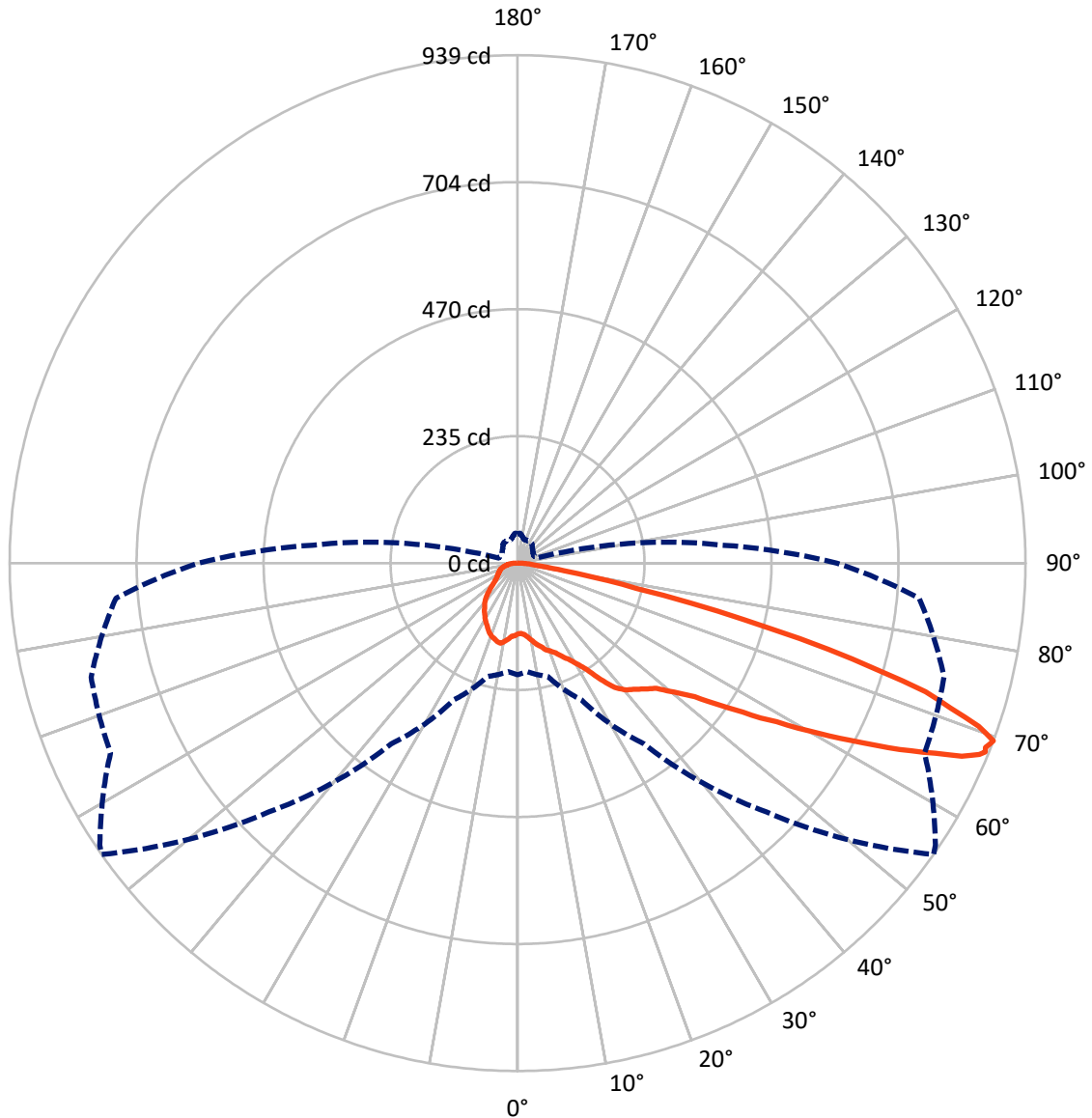
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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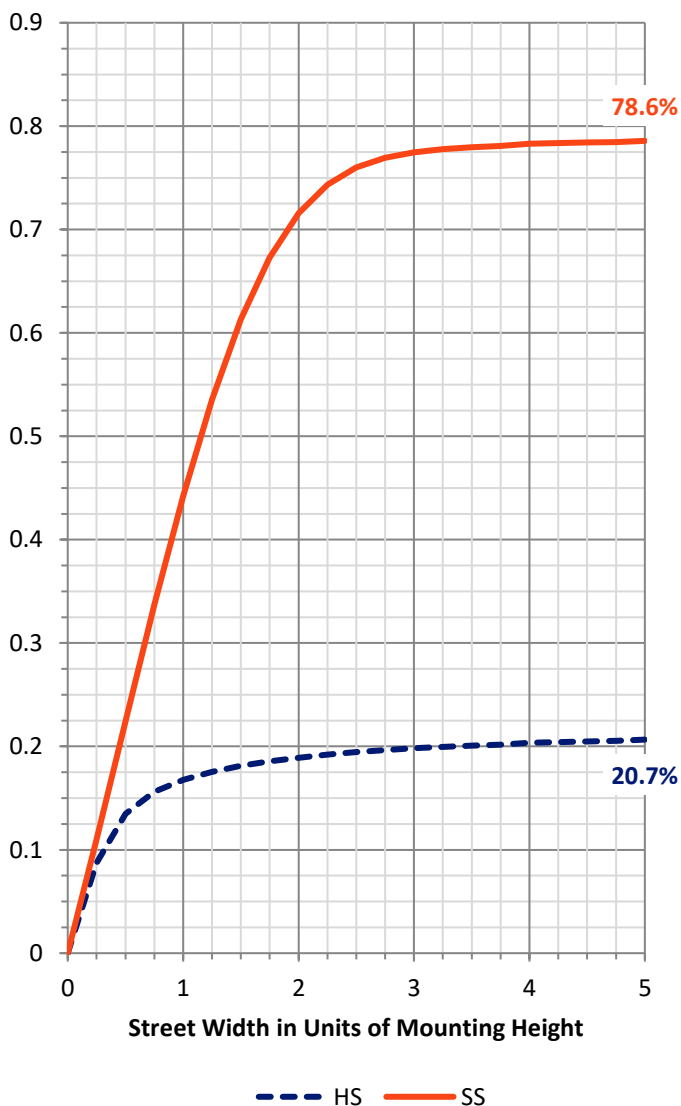
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	256.7	0.0	256.7
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	957.1	0.0	957.1
	% Fixture	78.9	0.0	78.9
Total	Lumens	1213.8	0.0	1213.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	1.1
10°-20°	44.2	3.6
20°-30°	77.7	6.4
30°-40°	117.5	9.7
40°-50°	167.3	13.8
50°-60°	257.1	21.2
60°-70°	344.5	28.4
70°-80°	171.4	14.1
80°-90°	20.7	1.7
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°	1213.8	100.0
0°-180°	1213.8	100.0



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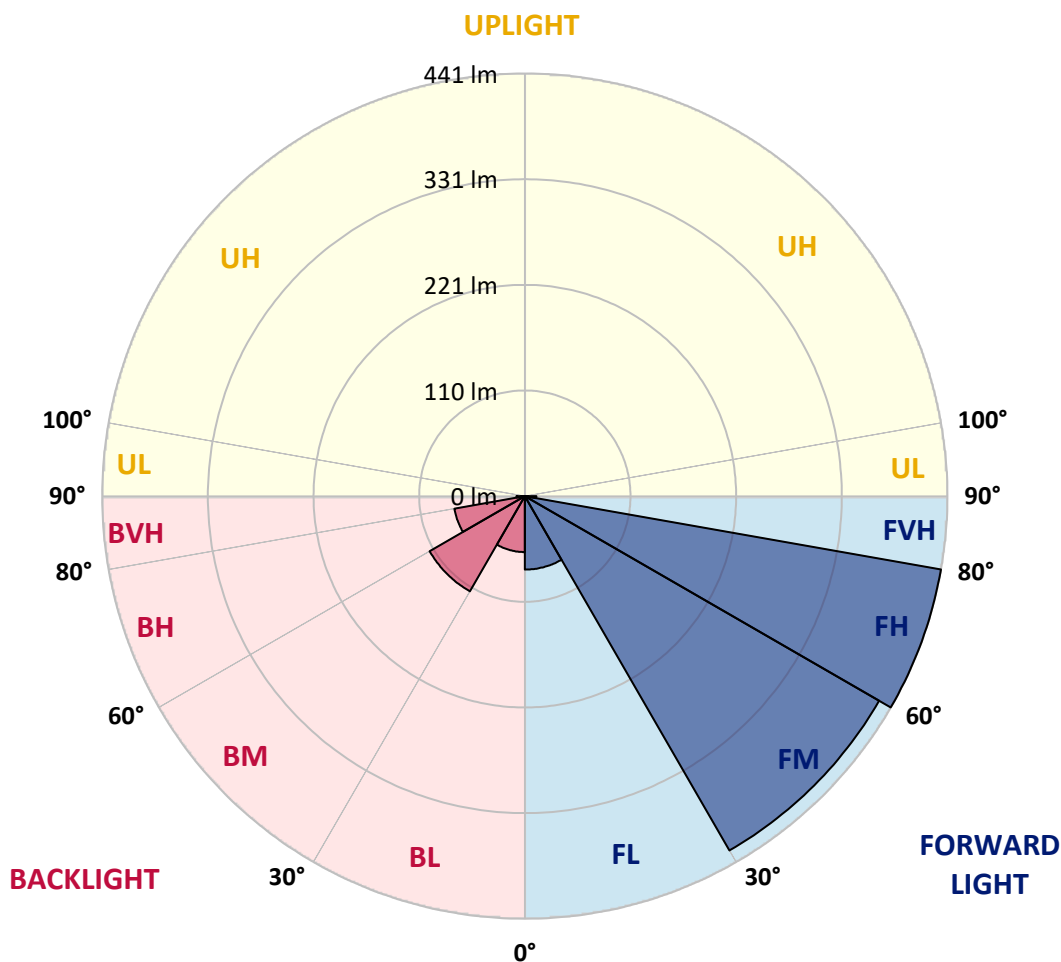
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	76.7	6.3			
FM (30°-60°)	427.2	35.2			
FH (60°-80°)	441.3	36.4			G0/660
FVH (80°-90°)	12.0	1.0			G1/100
BL (0°-30°)	58.4	4.8	B0/110		
BM (30°-60°)	114.8	9.5	B0/220		
BH (60°-80°)	74.7	6.2	B0/110		G0/110
BVH (80°-90°)	8.8	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	130.9	130.9	129.6	128.9	130.9	130.3	130.3	130.3	129.6	130.3	130.9
5°	134.9	134.9	132.9	133.6	132.9	134.3	132.9	132.3	133.6	134.9	132.3
7.5°	141.6	141.0	142.3	139.6	140.3	139.0	138.3	138.3	139.0	136.9	139.0
10°	151.6	149.6	151.6	149.6	147.6	145.6	145.6	143.0	145.0	145.0	145.0
12.5°	163.0	162.3	160.3	157.7	155.0	154.3	153.6	150.3	153.0	151.6	153.0
15°	170.3	168.3	167.7	165.7	162.3	159.7	159.7	160.3	159.7	159.7	160.3
17.5°	179.7	177.0	175.0	173.7	166.3	166.3	168.3	167.7	169.0	168.3	167.0
20°	191.1	187.7	187.7	181.0	177.7	173.0	173.7	171.7	177.7	178.4	173.7
22.5°	204.4	203.8	198.4	192.4	187.1	181.7	180.4	180.4	187.7	187.1	178.4
25°	220.5	216.4	213.8	207.8	198.4	193.1	191.1	189.7	197.1	195.1	187.7
27.5°	233.1	231.8	227.8	222.5	212.4	204.4	201.7	203.1	205.8	205.1	191.7
30°	255.2	253.2	247.2	243.8	235.1	224.5	216.4	215.8	217.1	215.1	200.4
32.5°	276.6	273.9	269.9	263.2	257.9	247.8	233.8	235.1	232.5	225.8	207.8
35°	293.9	287.3	285.9	283.9	272.6	270.6	263.9	265.2	256.5	245.2	222.5
37.5°	302.6	298.6	303.3	298.6	295.3	290.6	291.9	287.9	277.9	259.2	223.8
40°	307.3	305.3	311.3	314.0	316.0	315.3	308.6	303.3	279.2	258.5	232.5
42.5°	315.3	317.3	322.7	332.0	334.0	340.0	318.7	320.0	288.6	273.2	251.2
45°	341.4	336.7	349.4	354.1	356.1	363.4	332.0	330.0	302.0	299.9	278.6
47.5°	370.1	370.1	378.8	380.1	384.8	392.1	346.0	338.0	322.0	337.4	316.0
50°	390.8	388.1	400.8	408.8	422.2	438.2	374.8	368.1	358.7	392.8	364.1
52.5°	399.5	398.8	426.2	427.5	461.6	483.7	410.2	411.5	416.2	450.3	421.5
55°	414.2	411.5	430.9	455.6	493.0	522.4	472.3	464.3	485.0	517.7	481.7
56°	417.5	410.8	438.9	460.3	511.0	533.8	499.7	494.3	508.4	539.1	515.1
57°	413.5	411.5	433.6	465.0	525.1	552.5	533.1	535.1	539.1	564.5	550.5
58°	421.5	415.5	436.2	472.3	535.8	576.5	561.8	566.5	567.8	590.5	577.2
59°	415.5	417.5	438.9	479.0	543.1	595.2	601.9	599.2	597.9	617.3	616.6
60°	408.2	410.2	433.6	484.3	558.5	617.3	638.6	638.6	626.6	642.0	664.0
61°	404.2	405.5	426.9	482.3	569.2	644.0	679.4	686.7	656.0	672.7	698.1
62°	401.5	406.8	423.5	481.0	576.5	672.0	718.8	721.5	682.1	696.8	728.2
63°	399.5	396.8	420.2	477.6	580.5	696.1	765.6	756.9	712.8	726.2	755.5
64°	384.1	382.8	401.5	470.3	581.2	713.5	806.3	795.6	739.5	745.5	773.6
65°	356.1	362.7	382.1	456.3	573.8	730.8	848.4	852.4	769.6	769.6	779.6
66°	324.7	326.0	345.4	422.9	557.1	735.5	895.8	885.8	799.6	782.9	783.6
67°	289.3	296.6	311.3	382.1	517.7	731.5	924.6	913.9	817.7	802.3	781.6
67.5°	277.2	272.6	291.9	356.1	497.7	723.5	932.6	931.2	823.7	807.7	770.9
68°	244.5	251.2	265.9	335.4	473.6	698.8	929.9	934.6	831.7	819.7	765.6
69°	206.4	201.7	217.1	279.2	408.2	650.7	939.3	931.9	830.4	816.3	745.5
70°	150.3	152.3	165.7	223.8	356.1	583.9	904.5	911.2	833.0	805.7	706.1
71°	112.2	114.9	129.6	168.3	276.6	506.4	844.4	867.1	817.0	794.3	663.4
72°	86.8	86.2	98.2	126.3	211.1	416.9	791.0	798.3	770.2	764.9	603.2
72.5°	77.5	77.5	85.5	112.2	186.4	371.4	744.9	766.9	751.5	750.2	577.9
73°	64.1	66.8	75.5	94.9	155.7	324.7	692.1	708.1	714.8	728.2	529.8
74°	45.4	46.8	54.8	70.1	115.6	241.8	596.6	615.9	648.7	658.7	460.9
75°	35.4	35.4	40.1	52.8	83.5	172.4	483.7	511.0	558.5	579.2	377.4



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 CATALOG NUMBER: CCW-SA-1-AMB-U-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
77.5°	24.7	24.7	27.4	32.1	41.4	60.8	225.1	244.5	325.3	350.1	200.4
80°	17.4	17.4	20.7	23.4	27.4	30.1	86.2	92.9	148.3	177.0	90.2
82.5°	12.7	12.7	16.0	17.4	20.0	20.0	34.7	36.7	56.8	62.8	32.7
85°	10.7	11.4	14.0	12.0	12.7	10.7	20.7	20.7	26.7	26.1	10.7
87.5°	4.7	4.7	12.0	8.7	6.7	4.0	6.7	7.3	10.7	12.0	4.7
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°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	130.9	132.3	132.3	133.6	134.3	133.6	132.3	134.3	134.3	131.6	133.6
5°	134.3	135.6	134.9	135.6	135.6	135.6	136.9	136.3	138.3	136.9	136.3
7.5°	139.6	139.0	140.3	140.3	141.6	141.6	142.3	141.0	142.3	142.3	141.6
10°	144.3	145.0	146.3	147.0	147.0	146.3	143.6	143.0	143.0	143.0	143.6
12.5°	151.0	153.6	153.6	155.7	151.6	145.6	141.6	141.6	141.0	141.0	140.3
15°	159.7	161.0	160.3	157.0	150.3	144.3	143.0	141.0	141.6	141.6	139.6
17.5°	167.0	163.7	166.3	155.7	146.3	141.6	140.3	138.3	138.3	139.0	139.0
20°	171.0	171.7	165.7	150.3	143.6	137.6	136.9	136.3	134.9	132.3	132.9
22.5°	176.4	173.0	166.3	147.6	139.0	134.3	132.3	127.6	124.9	124.9	125.6
25°	183.0	177.7	163.7	142.3	132.3	126.9	123.6	120.2	114.2	112.9	112.2
27.5°	188.4	182.4	158.3	137.6	126.3	120.2	114.2	106.2	102.2	101.5	100.2
30°	191.1	181.7	155.0	132.3	120.9	110.9	102.2	94.2	91.5	90.2	90.2
32.5°	198.4	191.7	155.0	128.9	114.2	101.5	90.2	82.8	80.8	81.5	80.8
35°	211.8	197.7	157.0	126.9	108.2	93.5	80.8	76.2	74.2	70.8	71.5
37.5°	211.1	199.1	156.3	123.6	100.9	84.2	74.8	70.8	66.1	62.8	62.1
40°	222.5	205.8	157.0	119.6	95.5	78.8	70.8	66.1	60.8	56.1	56.1
42.5°	236.5	221.1	155.7	111.6	87.5	72.1	65.5	60.1	54.1	49.4	50.1
45°	265.2	239.2	154.3	104.2	78.2	66.8	59.5	52.8	49.4	46.8	46.1
47.5°	298.6	263.9	155.0	93.5	68.1	60.8	52.1	48.8	46.8	44.8	45.4
50°	342.7	289.9	152.3	80.8	59.5	54.8	48.8	47.4	45.4	44.1	43.4
52.5°	398.2	323.3	146.3	67.5	52.1	50.8	48.1	46.1	44.8	44.1	43.4
55°	462.9	364.7	134.9	57.5	47.4	48.8	47.4	46.1	45.4	44.1	43.4
56°	495.7	386.8	127.6	54.1	46.1	48.1	47.4	46.8	46.1	44.8	44.8
57°	526.4	404.2	116.9	51.4	45.4	47.4	47.4	46.8	46.8	44.1	44.8
58°	556.5	426.2	108.9	48.1	44.8	46.8	48.1	46.8	46.8	44.8	44.8
59°	594.6	457.6	97.5	46.1	43.4	46.1	48.1	46.8	46.8	45.4	44.8
60°	621.9	475.6	86.8	44.1	42.1	44.8	48.1	46.1	46.1	46.1	46.1
61°	653.3	495.7	78.2	42.8	41.4	44.8	47.4	45.4	45.4	46.1	46.1
62°	678.7	509.0	68.8	40.8	40.1	43.4	45.4	45.4	45.4	46.8	46.8
63°	696.1	515.7	62.8	39.4	39.4	42.8	44.8	45.4	44.8	48.1	48.1
64°	697.4	506.4	54.8	38.7	38.7	41.4	44.1	44.1	45.4	50.1	50.1
65°	694.8	495.7	48.8	37.4	37.4	40.1	43.4	44.1	46.1	52.1	51.4
66°	683.4	483.0	44.1	36.1	36.7	38.7	43.4	44.1	46.1	53.4	53.4
67°	656.7	456.3	40.8	34.7	36.1	38.7	43.4	44.8	46.1	54.1	54.1
67.5°	649.3	433.6	39.4	34.1	35.4	38.1	44.1	45.4	45.4	55.4	54.8
68°	621.3	420.9	38.7	33.4	34.7	38.1	44.1	45.4	45.4	55.4	55.4
69°	590.5	380.8	36.7	32.7	34.7	38.7	45.4	45.4	45.4	55.4	54.1
70°	542.4	330.7	34.1	31.4	33.4	40.8	44.8	45.4	45.4	54.1	52.8
71°	487.0	287.3	32.7	30.7	33.4	40.8	44.8	45.4	44.8	52.1	50.8
72°	436.2	243.8	32.1	30.1	32.7	39.4	44.8	45.4	44.1	50.8	48.8
72.5°	410.8	215.1	31.4	29.4	31.4	38.1	44.8	45.4	44.8	49.4	47.4
73°	372.1	194.4	30.7	28.7	30.7	36.7	44.1	44.8	44.1	48.1	46.8
74°	306.0	149.6	30.1	28.1	29.4	34.1	43.4	44.8	43.4	45.4	44.8
75°	243.8	121.6	28.7	26.7	27.4	32.1	42.8	44.1	42.1	43.4	42.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	122.3	58.8	24.0	23.4	24.0	28.1	38.7	40.1	38.1	38.7	38.1
80°	56.1	32.1	19.4	20.0	20.0	23.4	33.4	35.4	34.1	32.7	32.7
82.5°	26.1	18.0	16.0	17.4	17.4	20.0	28.1	30.1	28.1	26.7	26.1
85°	9.4	10.0	12.7	14.7	12.7	14.7	21.4	23.4	21.4	17.4	18.0
87.5°	4.0	6.0	9.4	12.0	8.7	8.0	14.7	16.0	14.0	11.4	10.0
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)