

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: P678700

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

Issue Date: 04/26/2023



Test Information

Test Method: LM-79-08
Report Number: P678700
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
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @500mA w/
T4W distribution lens
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

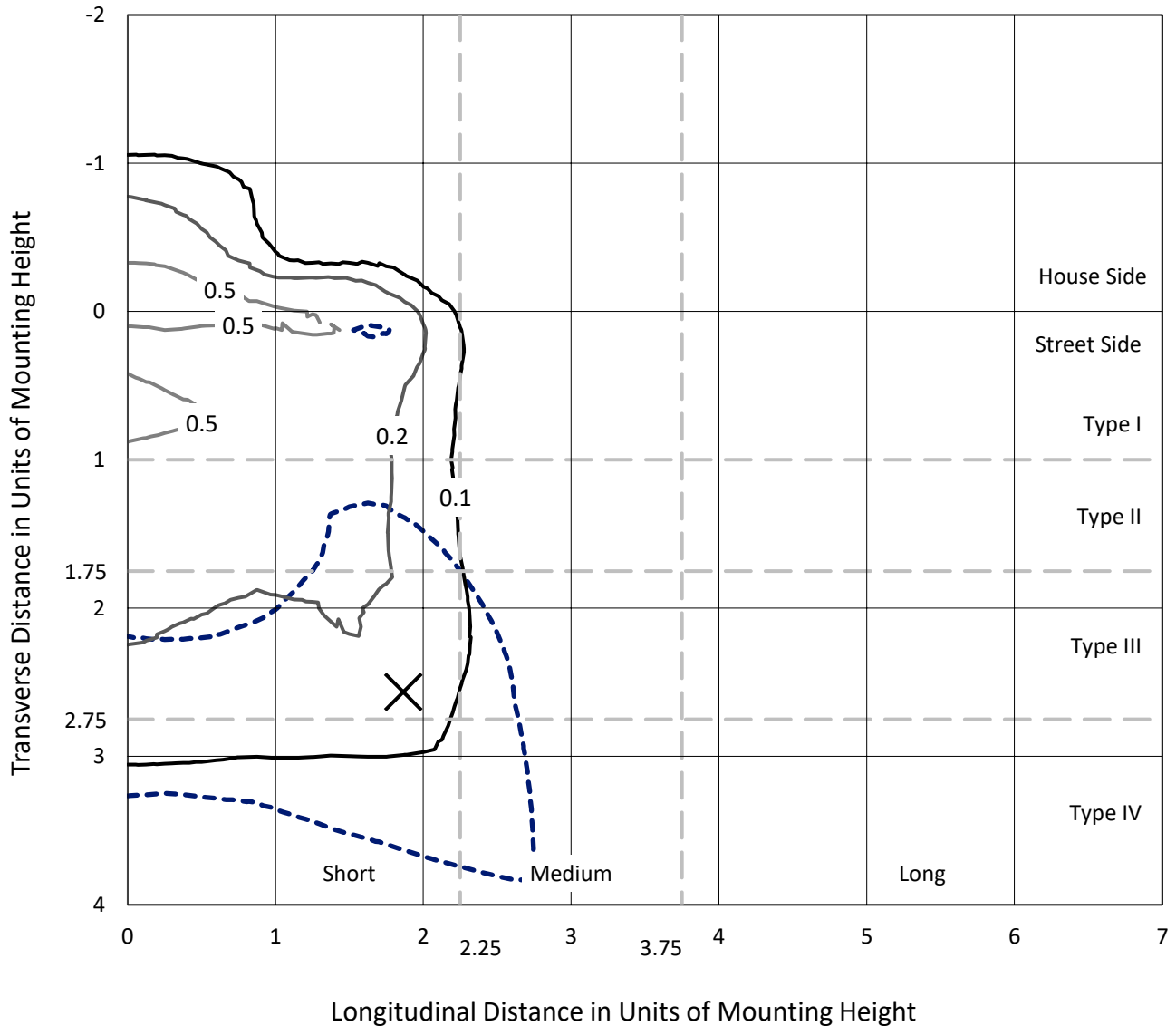
Lumens per Lamp: N/A
Luminaire Lumens: 1180.7 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

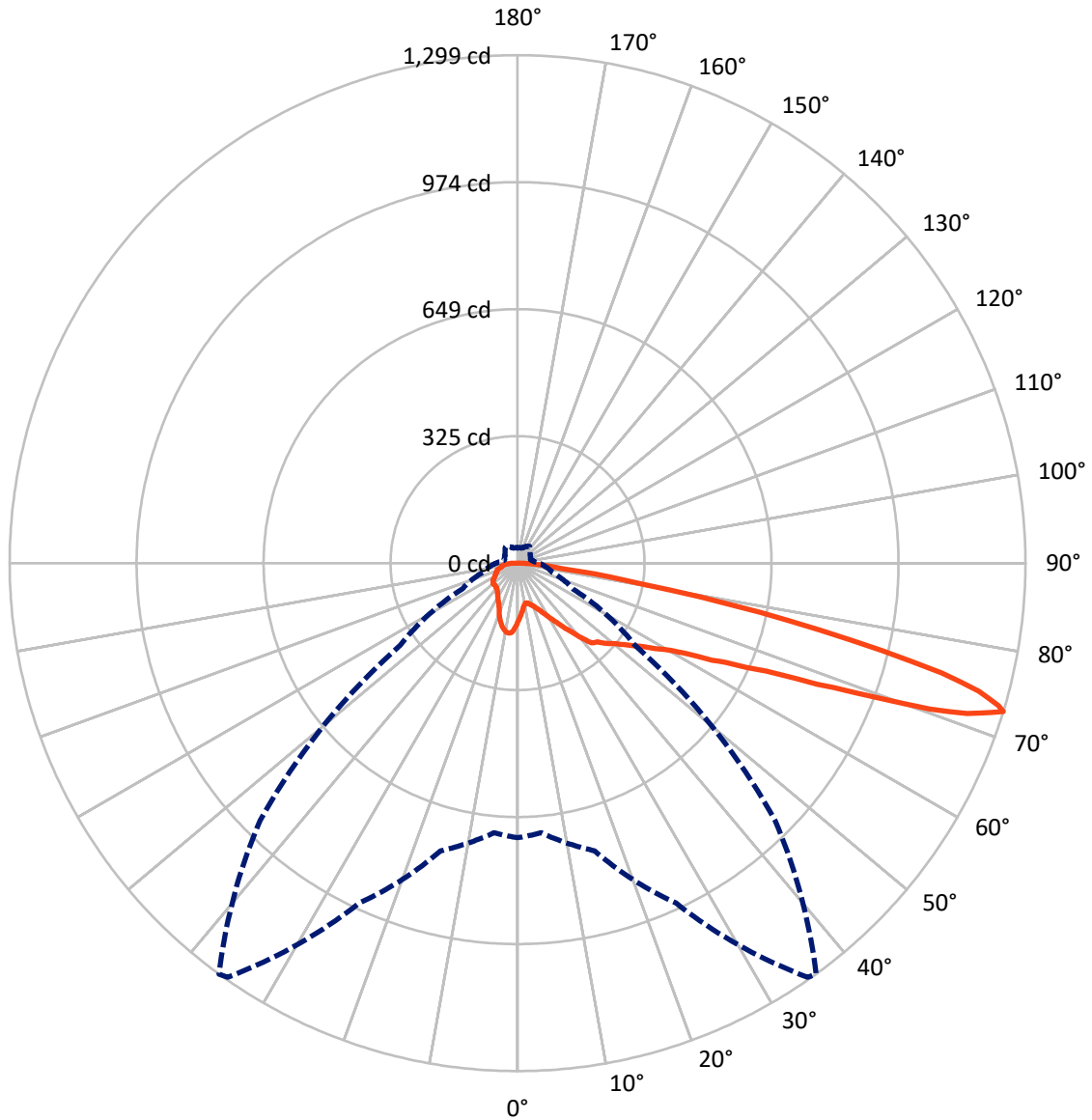
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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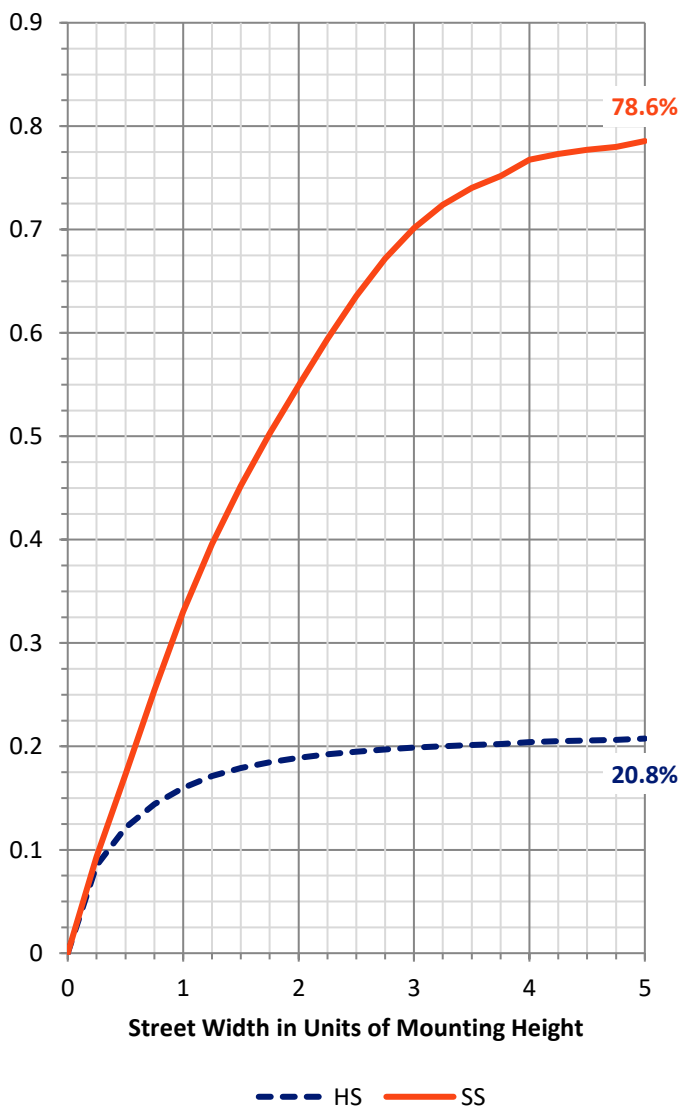
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.0	0.0	251.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	929.7	0.0	929.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	1180.7	0.0	1180.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	1.2
10°-20°	40.5	3.4
20°-30°	66.9	5.7
30°-40°	102.2	8.7
40°-50°	151.8	12.9
50°-60°	232.4	19.7
60°-70°	315.5	26.7
70°-80°	231.3	19.6
80°-90°	26.0	2.2
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°	1180.7	100.0
0°-180°	1180.7	100.0



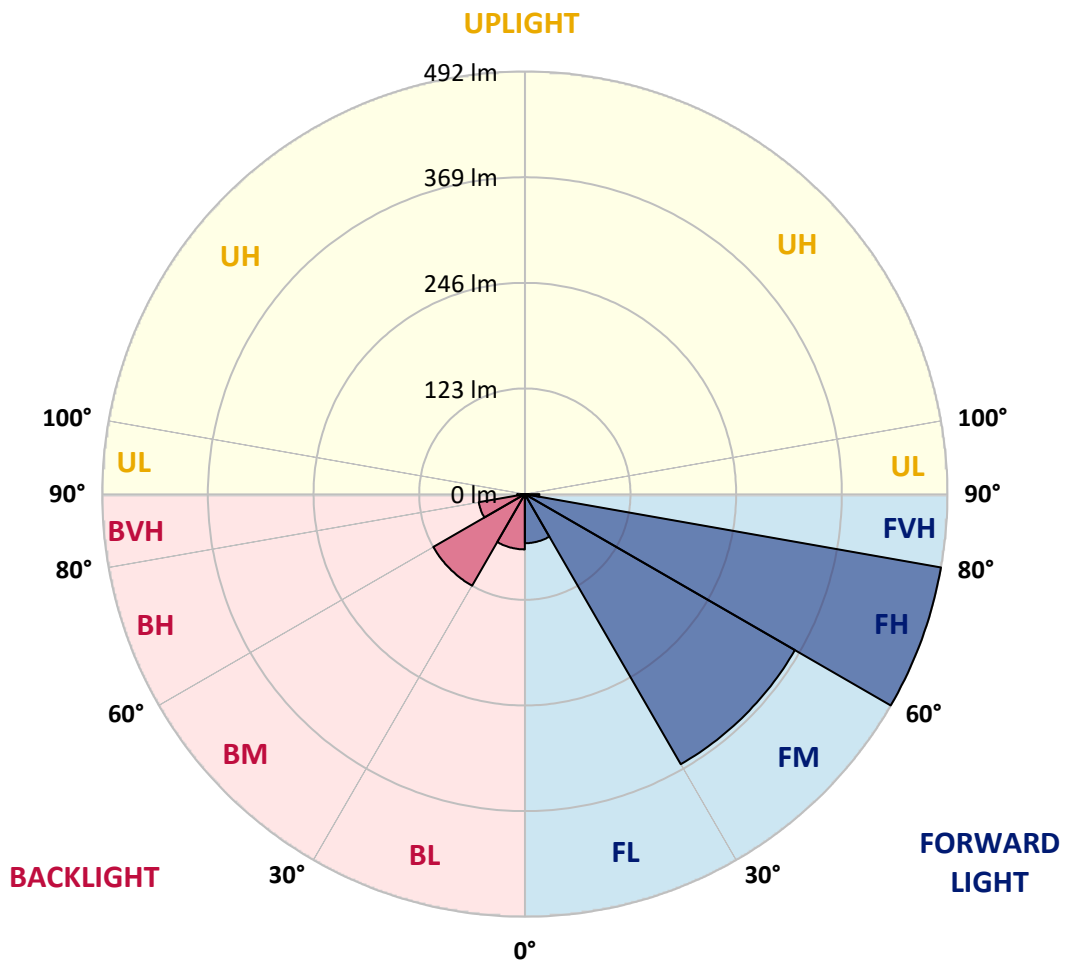
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	57.1	4.8			
FM (30°-60°)	363.3	30.8			
FH (60°-80°)	492.3	41.7			G0/660
FVH (80°-90°)	17.0	1.4			G1/100
BL (0°-30°)	64.4	5.5	B0/110		
BM (30°-60°)	123.2	10.4	B0/220		
BH (60°-80°)	54.5	4.6	B0/110		G0/110
BVH (80°-90°)	9.0	0.8			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°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
2.5°	133.6	134.9	134.9	135.6	135.6	136.3	138.3	139.6	143.0	145.0	148.3
5°	116.9	119.6	119.6	121.6	123.6	124.2	126.9	130.9	136.3	142.3	147.0
7.5°	104.2	104.2	105.5	107.5	112.2	112.2	118.9	124.9	130.3	138.3	145.6
10°	100.2	100.9	100.2	101.5	104.9	104.9	110.9	118.2	128.9	137.6	149.6
12.5°	102.9	103.5	102.2	101.5	104.9	104.2	108.9	116.9	126.3	137.6	150.3
15°	110.2	108.9	106.9	104.9	106.2	107.5	110.9	117.6	126.9	138.9	155.0
17.5°	116.9	116.9	112.9	110.9	111.6	112.2	116.2	119.6	128.3	138.9	157.0
20°	128.9	127.6	120.9	116.2	117.6	117.6	119.6	123.6	128.3	140.3	159.0
22.5°	140.3	139.6	130.9	127.6	124.9	125.6	126.3	128.3	130.9	140.3	160.3
25°	159.0	155.6	145.0	140.3	134.9	134.3	131.6	132.9	134.3	143.0	166.3
27.5°	175.7	174.3	165.0	155.6	147.6	147.0	141.6	142.3	141.6	148.3	174.3
30°	194.4	193.1	186.4	173.0	163.7	161.7	154.3	151.6	152.3	154.3	183.0
32.5°	211.1	210.4	204.4	193.1	179.7	178.4	170.3	167.7	165.7	161.7	197.1
35°	230.5	229.1	223.1	213.8	201.1	199.7	191.7	187.7	177.7	170.3	208.4
37.5°	248.5	249.2	243.8	239.8	225.8	221.8	217.8	210.4	193.1	183.7	229.8
40°	261.9	257.8	259.2	259.9	251.8	251.2	243.8	229.1	209.1	199.7	257.8
42.5°	267.9	263.9	263.9	271.2	281.2	279.2	269.9	257.8	234.5	223.1	296.6
45°	287.2	279.2	273.2	275.2	286.6	287.2	301.9	285.9	262.5	247.8	332.7
47.5°	295.9	289.9	288.6	291.2	306.6	306.6	330.7	320.6	297.9	277.2	381.4
50°	311.3	307.3	303.9	308.6	322.0	323.3	365.4	362.1	336.7	318.6	451.6
52.5°	334.0	326.7	320.0	333.3	348.7	346.7	390.1	410.2	381.4	367.4	529.7
55°	347.4	340.0	348.7	356.7	371.4	374.7	430.2	462.3	416.8	417.5	607.2
56°	354.0	348.7	362.1	363.4	385.4	386.8	453.6	483.6	431.5	434.2	635.9
57°	370.1	361.4	372.1	380.1	400.1	404.1	472.3	505.0	442.9	448.9	653.3
58°	384.8	376.8	386.8	390.8	420.8	419.5	501.7	524.4	457.6	470.9	673.3
59°	401.5	389.4	398.8	405.5	438.2	435.5	531.7	545.1	466.9	483.0	678.0
60°	430.9	416.8	421.5	426.2	456.9	454.9	550.4	557.8	475.6	484.3	674.7
61°	454.9	441.5	442.2	450.2	484.3	481.0	580.5	574.5	482.3	483.6	660.7
62°	488.3	479.0	472.3	474.9	511.7	514.4	622.6	590.5	480.3	479.0	626.6
63°	527.1	513.7	497.7	499.0	547.1	555.8	655.3	597.2	481.0	464.9	586.5
64°	574.5	563.8	543.1	537.7	597.9	589.8	687.4	611.2	470.9	439.5	519.7
65°	627.3	603.9	576.5	579.8	642.6	641.9	729.5	620.6	464.9	415.5	448.2
66°	669.3	661.3	641.3	636.6	694.1	692.7	780.2	615.2	444.2	375.4	378.1
67°	708.7	707.4	685.4	698.1	764.2	770.2	827.0	611.2	414.8	329.3	299.3
67.5°	726.1	727.5	712.8	734.1	829.7	827.0	854.4	613.2	396.8	310.6	263.9
68°	764.9	750.2	744.2	766.9	867.1	867.1	885.8	600.5	379.4	277.9	231.8
69°	784.2	770.9	786.9	831.7	1001.3	981.3	931.2	584.5	334.0	225.8	174.3
70°	800.9	792.2	810.3	893.8	1101.5	1118.2	986.0	547.1	289.9	181.0	127.6
71°	789.6	789.6	819.6	950.6	1211.1	1211.8	1002.7	479.6	226.5	138.9	98.2
72°	743.5	753.5	784.9	964.6	1270.5	1270.5	978.6	400.1	174.3	104.2	77.5
72.5°	702.1	692.0	761.5	959.3	1292.6	1298.6	931.2	366.1	155.6	92.2	66.8
73°	641.9	636.6	719.4	934.5	1286.6	1282.6	905.8	312.0	131.6	82.2	62.1
74°	510.4	508.3	617.9	863.7	1238.5	1223.8	785.6	237.1	101.5	68.8	52.1
75°	357.4	370.7	461.6	752.8	1126.3	1120.2	624.6	172.3	76.2	56.1	46.8



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 CATALOG NUMBER: CCW-SA-1-AMB-U-T4FT

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
77.5°	151.6	155.6	203.7	373.4	721.4	712.1	292.6	80.2	49.4	42.1	35.4
80°	51.4	55.4	80.8	165.7	312.0	318.0	101.5	43.4	36.7	32.1	26.7
82.5°	23.4	25.4	40.7	70.1	123.6	116.9	44.8	30.1	26.7	22.7	17.4
85°	10.7	10.7	22.0	36.7	58.8	56.8	22.7	16.7	18.0	14.0	8.7
87.5°	4.0	4.0	8.7	12.7	21.4	20.7	7.3	6.7	9.4	8.0	4.0
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°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
2.5°	149.0	149.6	154.3	157.0	157.6	162.3	164.3	167.0	166.3	167.7	165.7
5°	149.6	154.3	159.7	164.3	171.0	174.3	177.7	177.7	179.7	179.0	178.4
7.5°	151.6	155.6	164.3	171.7	178.4	181.0	180.4	181.0	177.7	179.0	178.4
10°	154.3	159.0	173.0	179.7	180.4	179.7	178.4	174.3	171.7	169.7	169.0
12.5°	157.0	165.0	180.4	182.4	180.4	176.4	171.0	165.0	162.3	157.0	157.0
15°	163.0	170.3	187.7	185.7	179.0	170.3	163.0	154.3	147.6	146.3	145.6
17.5°	166.3	177.0	189.7	184.4	173.0	164.3	151.0	140.9	135.6	128.9	130.9
20°	171.7	183.7	191.7	183.0	169.0	155.0	138.3	125.6	122.2	119.6	120.9
22.5°	177.0	192.4	193.7	177.0	160.3	140.3	124.2	119.6	118.2	116.9	115.6
25°	183.7	199.7	191.0	171.7	146.3	122.2	114.2	114.2	113.6	113.6	113.6
27.5°	195.1	208.4	191.7	160.3	128.3	110.9	108.2	109.6	110.9	111.6	111.6
30°	209.1	219.8	188.4	149.6	110.9	100.9	102.2	105.5	106.9	107.5	106.2
32.5°	223.8	228.5	183.0	130.3	99.5	96.2	95.5	99.5	101.5	101.5	103.5
35°	241.8	240.5	177.0	111.6	92.2	90.8	90.8	92.2	94.2	95.5	95.5
37.5°	267.2	255.2	167.0	96.9	86.8	84.8	86.2	86.8	88.2	88.8	91.5
40°	297.3	267.2	148.3	84.8	81.5	82.8	83.5	82.8	83.5	84.2	86.2
42.5°	326.7	277.2	124.9	76.2	78.2	80.8	82.8	80.2	78.2	78.2	80.2
45°	344.0	282.6	101.5	68.1	71.5	80.8	80.8	78.2	75.5	72.1	72.1
47.5°	371.4	286.6	83.5	61.5	68.1	80.8	80.8	75.5	72.1	66.8	66.1
50°	426.2	314.6	69.5	58.1	68.1	82.2	81.5	72.8	68.1	62.1	60.8
52.5°	485.6	346.7	59.5	54.8	66.1	80.8	79.5	69.5	63.5	57.4	56.8
55°	535.1	375.4	54.8	52.1	63.5	77.5	76.8	66.8	58.1	52.8	52.1
56°	555.1	380.1	52.8	51.4	61.5	74.8	74.8	64.8	56.1	52.1	50.8
57°	574.5	379.4	50.8	50.8	59.5	72.8	73.5	62.8	54.8	51.4	51.4
58°	591.2	379.4	49.4	50.1	58.1	70.8	72.1	60.8	53.4	50.8	50.8
59°	591.2	364.1	48.8	49.4	56.8	69.5	68.8	58.8	52.1	50.8	49.4
60°	585.2	340.7	48.1	48.1	55.4	66.8	67.5	57.4	52.1	50.1	49.4
61°	562.5	314.0	47.4	48.1	54.1	64.8	65.5	56.8	51.4	49.4	49.4
62°	526.4	283.9	46.1	48.1	52.1	63.5	64.8	56.1	50.1	48.8	48.8
63°	483.0	241.1	44.8	46.8	50.1	61.5	64.1	54.8	49.4	48.8	48.1
64°	422.8	206.4	44.1	46.1	49.4	58.8	62.8	54.8	48.8	48.1	48.1
65°	361.4	172.3	43.4	45.4	47.4	56.8	62.1	53.4	47.4	47.4	47.4
66°	297.9	142.3	42.1	44.8	46.1	55.4	60.8	52.1	46.8	46.8	46.1
67°	231.1	113.6	40.7	43.4	44.8	54.1	60.8	51.4	46.1	46.1	46.1
67.5°	203.1	103.5	40.1	42.8	44.8	53.4	58.8	50.8	45.4	46.1	45.4
68°	176.4	89.5	40.1	42.8	44.1	52.1	58.8	50.8	45.4	45.4	45.4
69°	133.6	74.8	38.7	41.4	42.8	50.8	58.1	50.1	44.1	45.4	44.1
70°	95.5	60.8	37.4	40.1	41.4	49.4	57.4	49.4	42.8	44.8	43.4
71°	76.8	52.1	36.7	38.7	40.1	48.1	55.4	48.1	42.1	44.1	42.8
72°	62.1	45.4	34.7	37.4	38.7	46.1	54.8	47.4	40.7	42.1	40.1
72.5°	54.8	42.8	34.1	36.7	38.7	45.4	52.8	46.1	39.4	40.1	38.1
73°	51.4	40.1	33.4	36.1	37.4	44.1	52.1	45.4	39.4	39.4	37.4
74°	44.1	36.1	31.4	34.7	36.1	42.1	49.4	44.1	38.1	37.4	35.4
75°	40.1	32.7	30.1	32.7	34.1	39.4	47.4	42.8	37.4	35.4	34.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	30.1	25.4	25.4	28.7	30.1	36.1	43.4	39.4	34.7	32.7	31.4
80°	22.0	19.4	21.4	24.0	24.7	33.4	41.4	36.7	31.4	28.7	28.1
82.5°	14.7	12.7	16.7	19.4	19.4	28.7	38.7	31.4	26.7	24.7	22.7
85°	6.7	6.7	10.7	12.7	13.4	20.7	31.4	24.0	19.4	15.4	14.7
87.5°	2.0	3.3	6.0	6.0	6.7	11.4	21.4	15.4	12.7	9.4	8.7
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)