

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: P679420

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

Issue Date: 04/26/2023



Test Information

Test Method: LM-79-08
Report Number: P679420
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-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @500mA w/
T3 distribution lens and House Side Shield
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

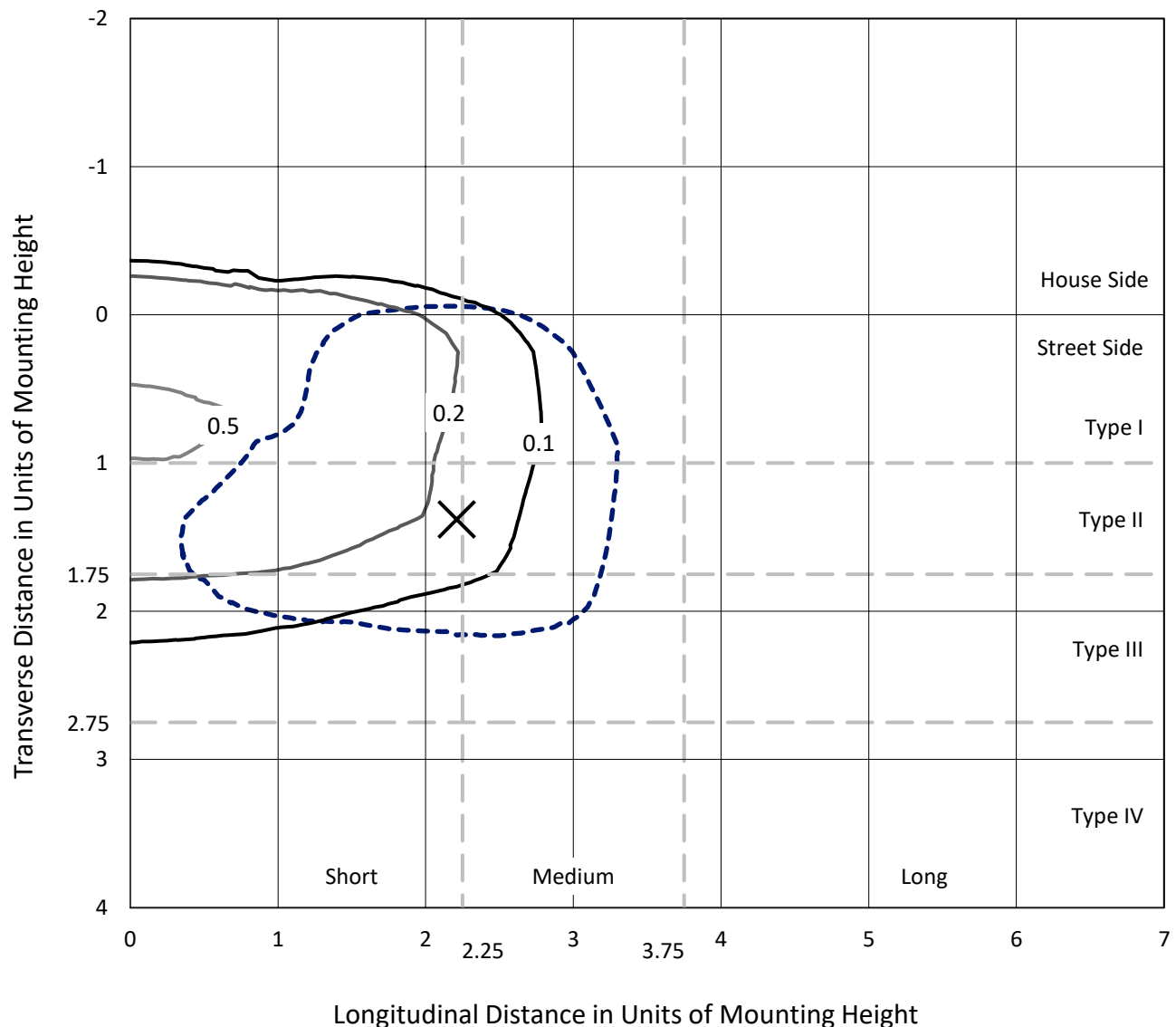
Lumens per Lamp: N/A
Luminaire Lumens: 876.1 lumens
Efficiency: N/A
Efficacy: 38.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

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

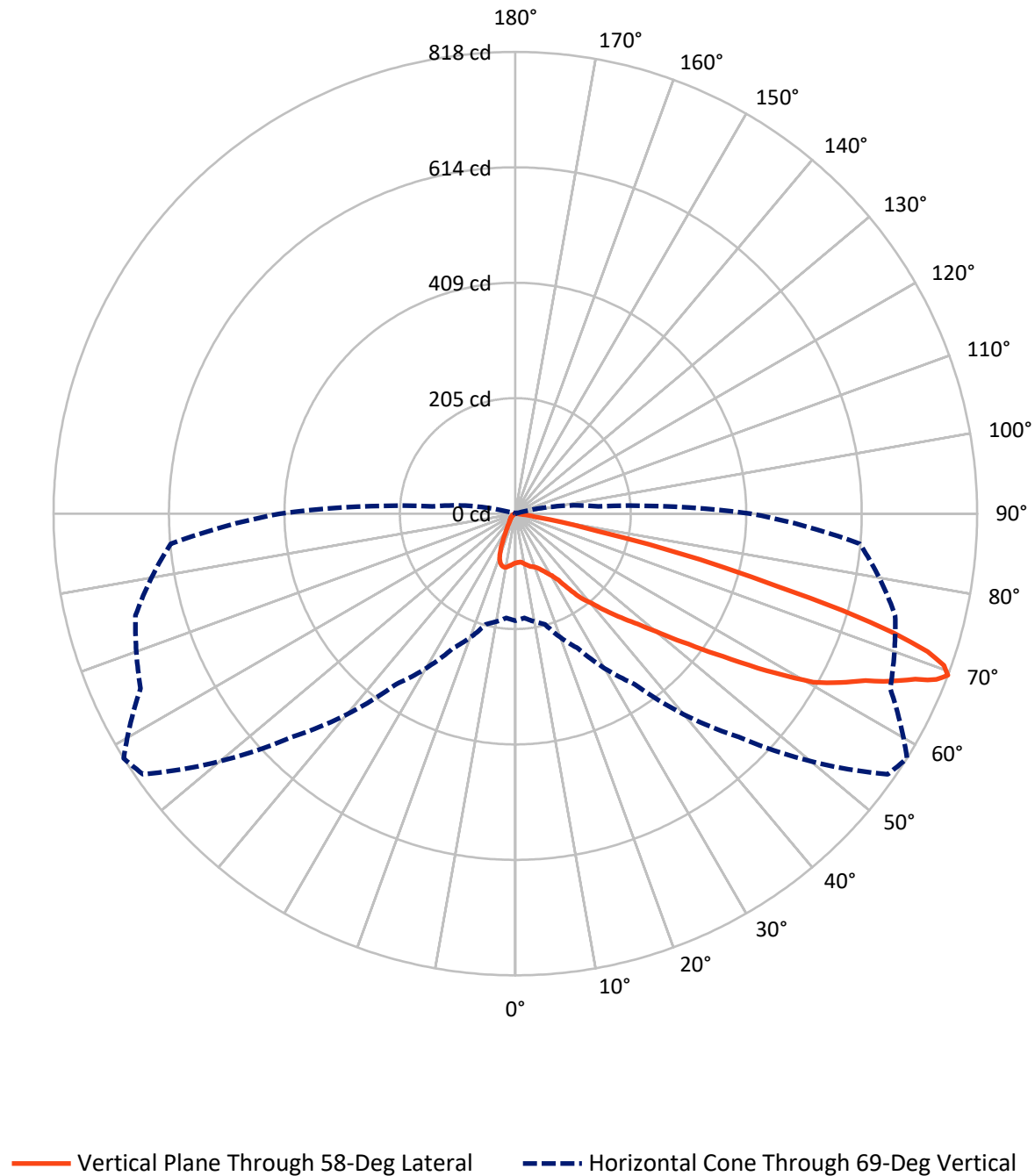
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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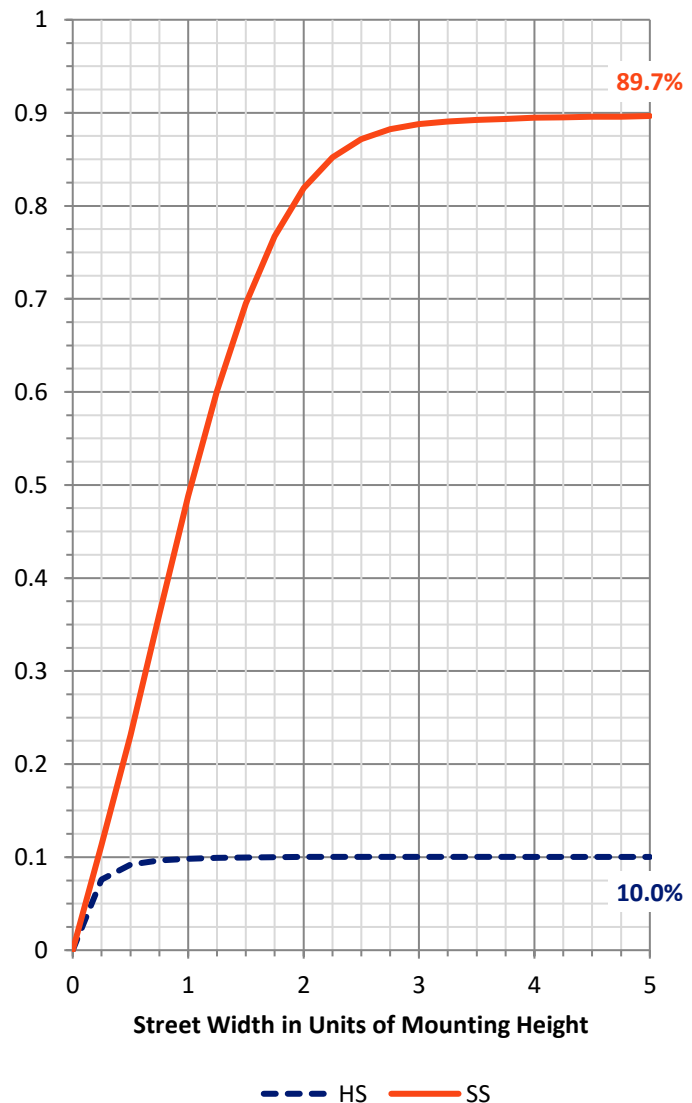
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.6	0.0	88.6
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	787.4	0.0	787.4
	% Fixture	89.9	0.0	89.9
Total	Lumens	876.1	0.0	876.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	1.0
10°-20°	24.2	2.8
20°-30°	42.4	4.8
30°-40°	76.3	8.7
40°-50°	128.1	14.6
50°-60°	214.3	24.5
60°-70°	277.1	31.6
70°-80°	101.8	11.6
80°-90°	3.5	0.4
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°	876.1	100.0
0°-180°	876.1	100.0

Coefficient of Utilization



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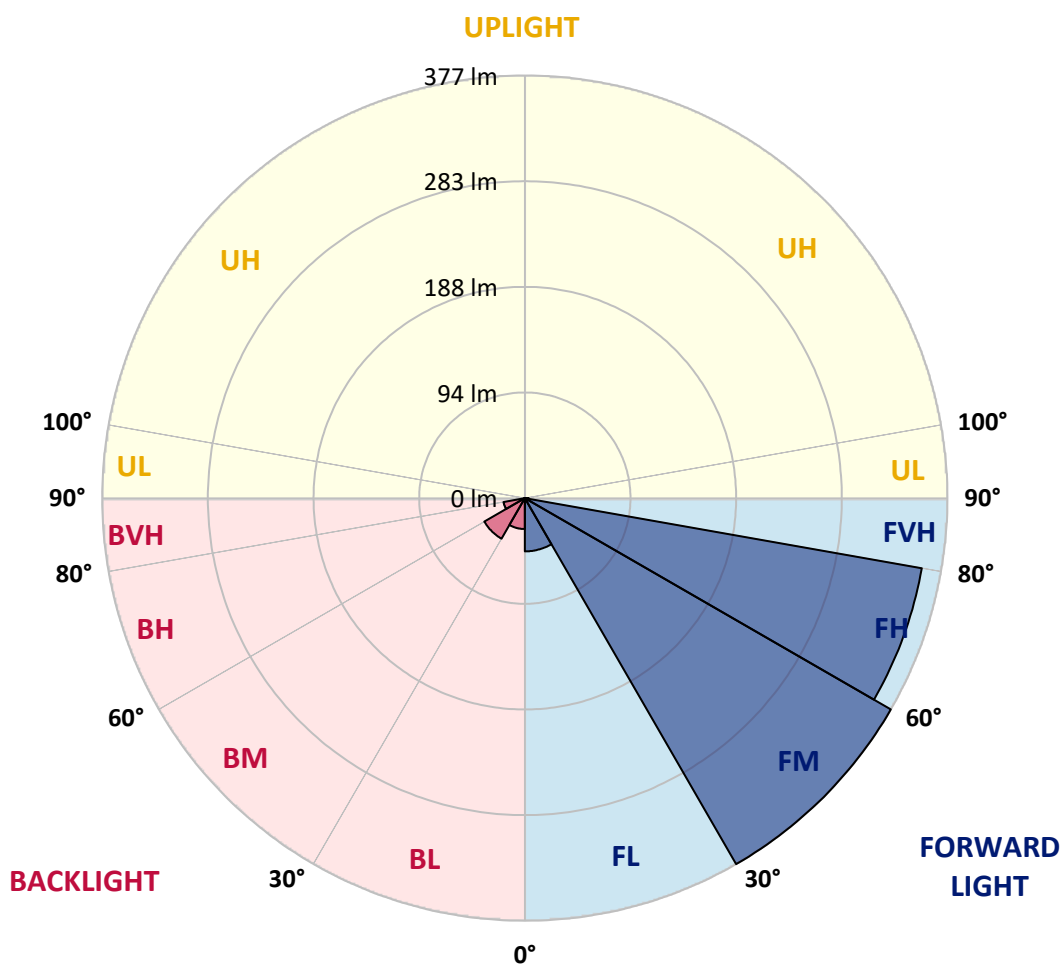
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	47.5	5.4			
FM	(30°-60°)	376.9	43.0			
FH	(60°-80°)	359.5	41.0			G0/660
FVH	(80°-90°)	3.5	0.4			G0/10
BL	(0°-30°)	27.6	3.1	B0/110		
BM	(30°-60°)	41.7	4.8	B0/220		
BH	(60°-80°)	19.3	2.2	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-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	85.5	84.8	85.5	85.5	85.5	86.2	86.8	86.8	87.5	88.2	87.5
5°	81.5	82.8	82.8	82.8	84.2	85.5	86.2	86.2	88.2	90.2	90.9
7.5°	80.2	78.8	80.2	82.8	83.5	86.2	88.2	87.5	90.2	92.9	93.5
10°	79.5	78.8	79.5	80.8	82.2	86.2	90.2	90.9	94.9	97.5	99.5
12.5°	80.2	79.5	80.8	81.5	83.5	86.8	92.2	93.5	98.2	102.9	105.5
15°	80.8	81.5	81.5	82.2	84.2	86.8	93.5	96.9	102.9	110.2	113.6
17.5°	84.8	85.5	83.5	82.8	85.5	88.2	95.5	98.9	107.6	116.9	119.6
20°	99.5	96.9	93.5	90.2	88.2	90.9	100.2	101.5	112.2	122.2	123.6
22.5°	122.2	120.2	114.9	104.9	94.9	94.9	104.2	105.5	118.9	127.6	128.9
25°	152.3	149.6	141.6	125.6	110.9	102.9	108.9	111.6	124.3	135.6	134.3
27.5°	179.7	178.4	169.0	154.3	131.6	116.2	115.6	118.9	132.9	145.6	141.6
30°	208.4	205.7	197.1	181.0	158.3	134.3	126.3	127.6	139.6	153.0	145.6
32.5°	232.5	232.5	226.5	209.1	186.4	162.3	142.3	140.3	148.3	161.0	155.6
35°	258.5	251.2	247.2	235.8	211.1	187.7	168.3	165.0	169.0	180.4	170.3
37.5°	267.2	266.5	265.2	258.5	239.8	212.4	193.1	190.4	191.7	201.1	182.4
40°	275.9	276.6	278.6	277.9	269.2	245.8	219.1	209.1	203.1	211.1	197.7
42.5°	287.9	288.6	296.6	293.9	291.3	282.6	246.5	235.8	227.1	238.5	221.1
45°	310.6	313.3	316.6	320.0	315.3	316.6	277.9	263.2	255.2	269.2	247.2
47.5°	343.4	339.4	350.0	348.0	343.4	352.7	308.6	292.6	290.6	312.6	285.2
50°	361.4	358.7	370.1	375.4	381.4	398.1	344.7	333.3	344.7	364.7	332.7
52.5°	370.7	378.1	392.8	401.5	416.8	442.9	393.5	384.1	403.5	427.5	384.8
55°	384.1	384.8	404.8	422.9	462.3	478.3	454.3	446.9	464.3	488.3	426.2
56°	392.8	386.8	406.8	426.9	476.3	497.0	481.0	477.0	493.7	507.7	442.2
57°	387.4	388.8	408.8	440.2	489.7	517.0	506.4	509.7	525.1	525.7	457.6
58°	398.8	391.5	408.8	444.2	500.3	537.1	544.4	540.4	547.1	541.1	479.6
59°	394.8	386.1	410.8	453.6	507.7	560.5	575.8	573.8	572.5	555.1	497.0
60°	384.8	385.4	408.2	460.3	521.7	581.2	601.9	606.6	586.5	565.8	527.7
61°	388.8	386.1	405.5	456.3	533.7	598.5	623.9	627.9	601.2	582.5	545.1
62°	382.8	381.4	400.1	453.6	543.1	617.9	653.3	648.6	606.6	596.5	579.2
63°	366.7	366.7	390.1	456.3	537.1	625.9	680.7	667.3	626.6	607.9	602.6
64°	362.7	360.7	382.1	442.2	541.1	628.6	697.4	687.4	635.3	631.3	627.9
65°	338.0	339.4	358.1	426.2	522.4	635.3	722.8	716.8	660.0	650.0	650.0
66°	310.6	303.3	331.3	398.1	503.0	629.3	746.8	742.2	680.0	671.4	660.7
67°	278.6	270.5	293.9	357.4	469.6	617.2	776.2	766.9	702.1	692.7	656.7
67.5°	253.8	252.5	273.9	338.7	450.9	611.2	796.9	787.6	720.1	704.8	658.7
68°	239.1	235.8	255.9	313.3	423.5	595.9	802.3	801.6	724.1	705.4	649.3
69°	189.7	185.7	203.1	263.9	369.4	559.8	805.6	818.3	732.8	696.7	612.6
70°	143.0	143.0	158.3	215.1	314.6	511.0	805.6	805.6	717.4	683.4	555.1
71°	100.2	98.9	116.9	163.0	253.8	447.6	773.6	770.2	682.0	636.0	471.0
72°	62.1	64.1	85.5	114.2	192.4	385.4	703.4	703.4	620.6	569.1	370.7
72.5°	55.4	54.8	72.8	99.5	169.7	334.0	652.0	657.3	589.2	519.7	320.6
73°	45.4	44.8	64.1	81.5	145.0	300.6	596.5	603.9	546.4	472.3	273.2
74°	31.4	30.1	40.7	59.5	98.9	203.1	470.3	482.3	436.9	373.4	181.7
75°	18.7	18.7	26.1	38.7	65.5	128.9	361.4	384.1	347.4	271.2	105.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
77.5°	10.7	10.7	13.4	18.7	24.0	32.7	141.0	149.0	132.9	79.5	28.7
80°	8.0	8.0	9.4	12.0	14.7	14.0	38.7	40.7	42.8	23.4	8.7
82.5°	4.0	4.7	6.7	8.7	10.0	6.0	11.4	12.7	14.7	12.0	4.0
85°	3.3	3.3	4.7	6.7	6.0	3.3	4.7	4.7	6.0	6.7	2.0
87.5°	2.0	2.0	3.3	4.7	2.7	1.3	2.0	2.0	2.7	3.3	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°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	87.5	89.5	88.8	88.8	88.8	88.8	89.5	88.2	88.2	88.2	87.5
5°	90.2	90.9	92.2	91.5	91.5	90.2	88.8	88.2	89.5	88.8	88.8
7.5°	94.2	94.2	94.2	94.2	92.9	90.9	88.8	87.5	86.2	85.5	84.8
10°	99.5	99.5	100.2	97.5	96.2	92.2	84.8	82.2	80.2	80.2	78.8
12.5°	106.9	106.9	105.5	102.2	94.9	86.2	80.8	74.8	69.5	67.5	66.1
15°	112.9	112.2	111.6	104.9	90.9	82.2	68.1	55.4	46.8	42.8	43.4
17.5°	118.2	118.9	114.9	100.9	87.5	69.5	47.4	33.4	28.1	27.4	27.4
20°	124.3	122.2	116.9	96.9	78.2	47.4	29.4	26.1	25.4	25.4	25.4
22.5°	128.3	125.6	114.2	93.5	60.1	29.4	25.4	24.7	24.7	24.0	24.7
25°	132.3	128.3	111.6	87.5	39.4	24.7	24.0	23.4	23.4	22.7	22.7
27.5°	138.3	132.3	109.6	71.5	24.7	22.7	22.0	22.0	20.7	19.4	19.4
30°	141.6	135.6	107.6	52.1	20.7	20.0	19.4	18.7	17.4	16.0	16.0
32.5°	147.6	141.0	106.9	32.7	19.4	18.0	16.7	15.4	13.4	12.0	12.0
35°	161.7	148.3	104.9	21.4	17.4	16.0	14.0	12.0	10.0	9.4	9.4
37.5°	168.3	153.6	96.9	18.0	16.0	14.0	12.0	9.4	8.0	7.3	7.3
40°	185.0	167.0	78.8	16.7	14.0	12.0	9.4	7.3	6.7	6.0	6.0
42.5°	206.4	181.0	56.8	14.7	12.7	10.0	7.3	6.0	5.3	5.3	5.3
45°	231.1	199.7	35.4	13.4	11.4	8.0	6.0	5.3	4.7	4.7	4.7
47.5°	262.5	215.8	22.7	12.7	9.4	6.7	5.3	4.0	4.0	4.0	4.0
50°	301.9	231.1	18.0	10.7	8.0	6.0	4.7	4.0	4.0	3.3	3.3
52.5°	343.4	243.2	15.4	10.0	7.3	5.3	4.7	4.0	4.0	3.3	3.3
55°	372.8	247.2	12.7	8.7	6.0	4.7	4.7	4.0	3.3	3.3	3.3
56°	388.1	248.5	12.0	8.0	6.0	4.7	4.0	4.0	3.3	3.3	3.3
57°	402.1	248.5	10.7	7.3	6.0	4.7	4.0	3.3	3.3	2.7	2.7
58°	413.5	246.5	10.0	7.3	5.3	4.7	4.0	3.3	3.3	2.7	2.7
59°	430.9	248.5	9.4	6.7	5.3	4.0	4.0	3.3	2.7	2.7	2.7
60°	437.6	246.5	8.7	6.0	4.7	4.0	3.3	3.3	2.7	2.0	2.0
61°	456.3	247.2	8.0	5.3	4.7	4.0	3.3	3.3	2.0	1.3	1.3
62°	465.6	243.8	7.3	5.3	4.0	3.3	3.3	2.7	2.0	1.3	0.7
63°	477.6	241.8	6.7	4.7	3.3	3.3	3.3	2.0	1.3	0.7	0.7
64°	490.3	237.1	6.0	4.0	3.3	3.3	2.7	1.3	0.7	0.0	0.0
65°	484.3	223.8	5.3	4.0	2.7	2.7	2.0	1.3	0.7	0.0	0.0
66°	485.0	211.8	4.7	3.3	2.7	2.7	1.3	0.7	0.0	0.0	0.0
67°	475.0	195.1	4.7	3.3	2.0	2.0	1.3	0.7	0.0	0.0	0.0
67.5°	463.6	186.4	4.0	2.7	2.0	2.0	1.3	0.7	0.0	0.0	0.0
68°	453.6	171.7	4.0	2.7	2.0	1.3	0.7	0.7	0.0	0.0	0.0
69°	416.8	147.6	3.3	2.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0
70°	362.1	118.2	3.3	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0
71°	290.6	89.5	2.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
72°	224.5	64.8	2.7	2.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0
72.5°	196.4	52.8	2.7	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0
73°	157.7	40.1	2.7	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
74°	100.2	22.0	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	60.1	14.7	2.0	1.3	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°	16.0	4.7	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.3	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	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.7	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)