

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: P676340

Luminaire Tested: **CCW-SA-1A-840-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676340
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-840-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

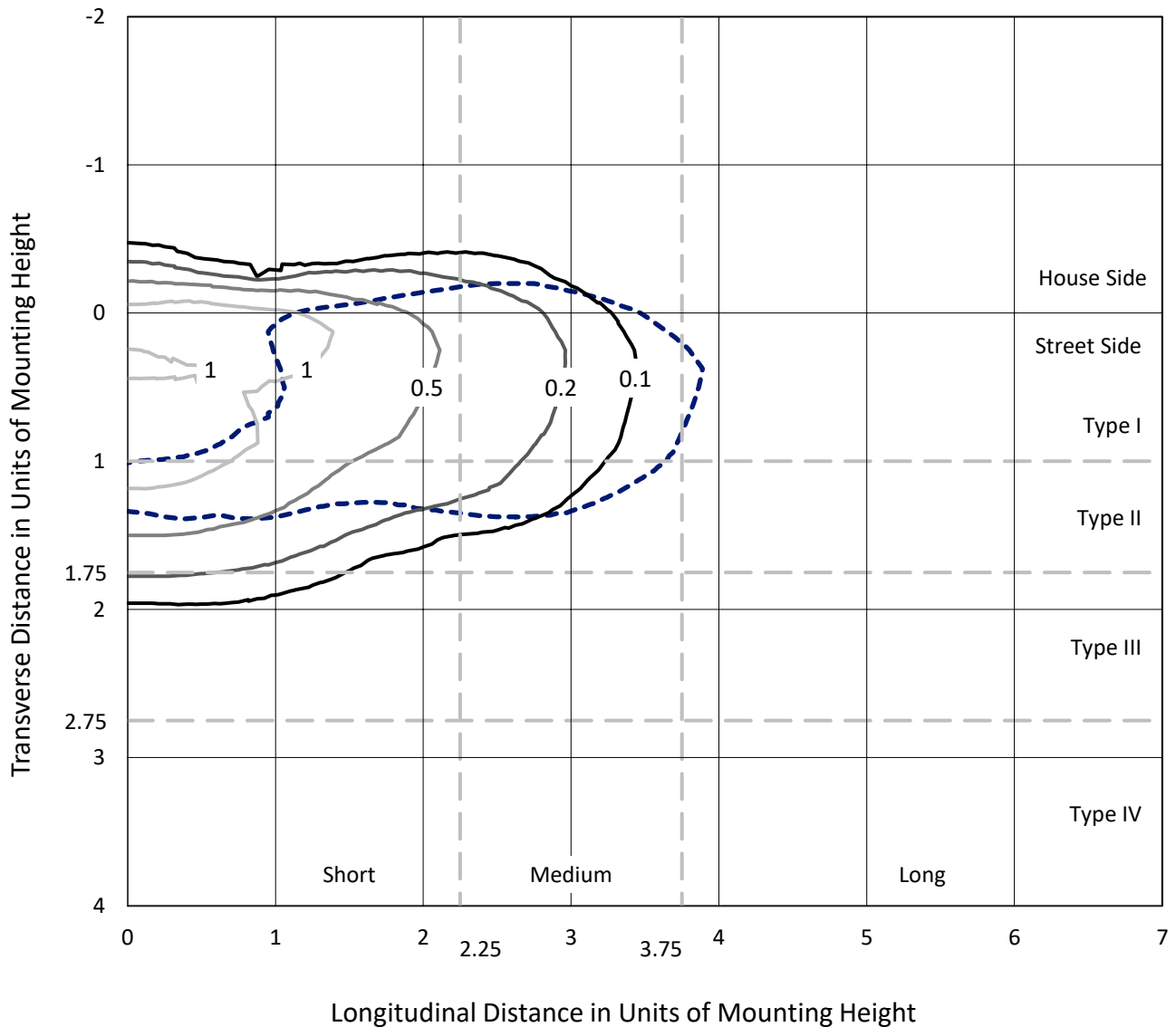
Lumens per Lamp: N/A
Luminaire Lumens: 1800.8 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
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

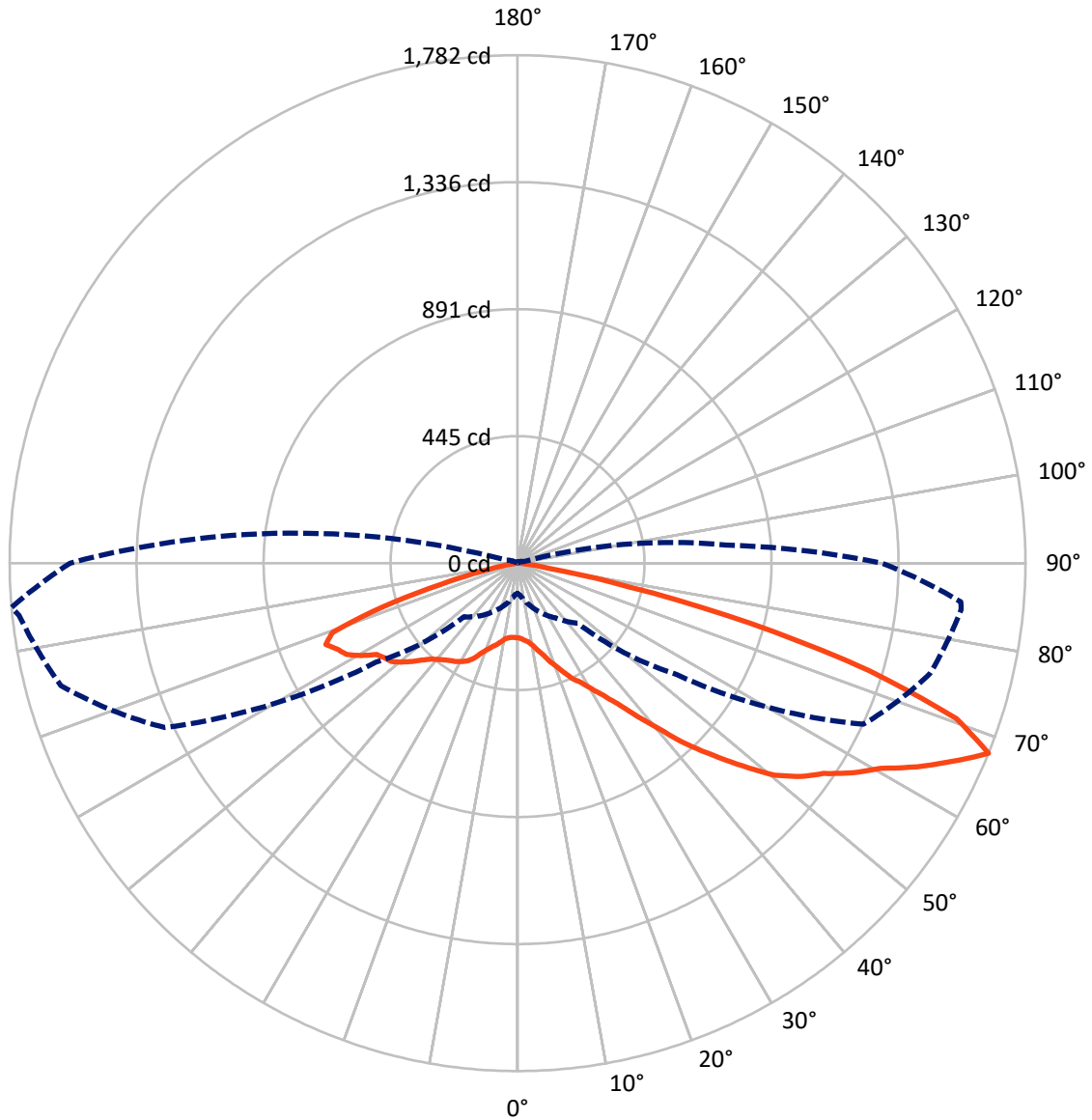
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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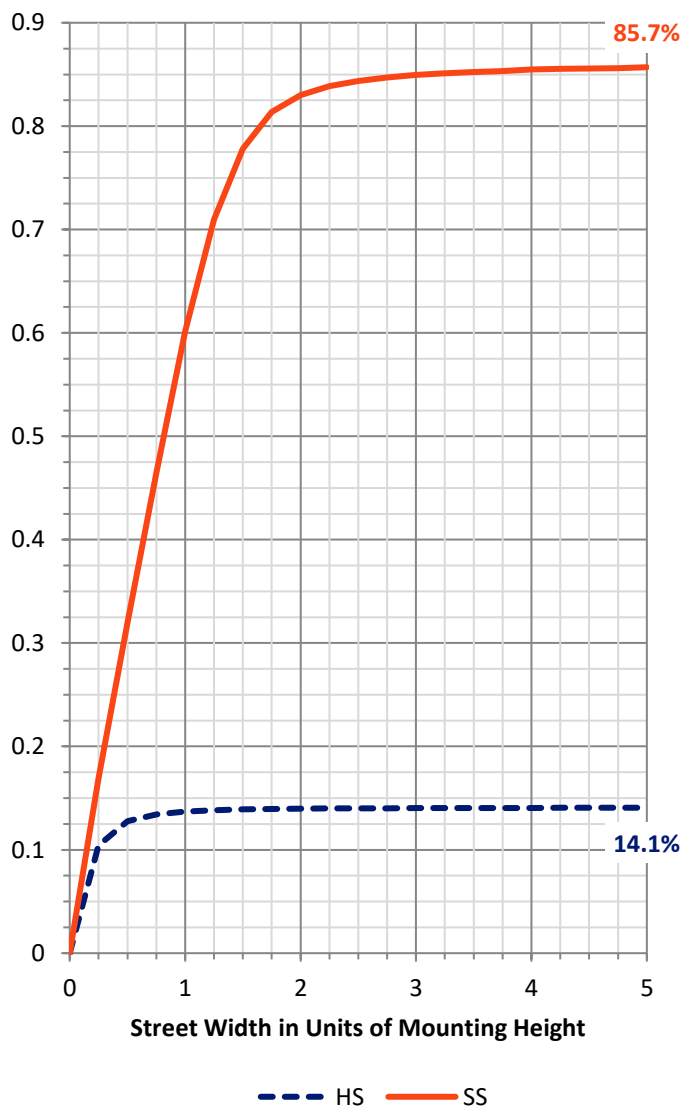
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	255.8	0.0	255.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1545.0	0.0	1545.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	1800.8	0.0	1800.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	1.3
10°-20°	64.2	3.6
20°-30°	106.6	5.9
30°-40°	183.5	10.2
40°-50°	329.7	18.3
50°-60°	469.3	26.1
60°-70°	427.9	23.8
70°-80°	182.2	10.1
80°-90°	13.6	0.8
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°	1800.8	100.0
0°-180°	1800.8	100.0



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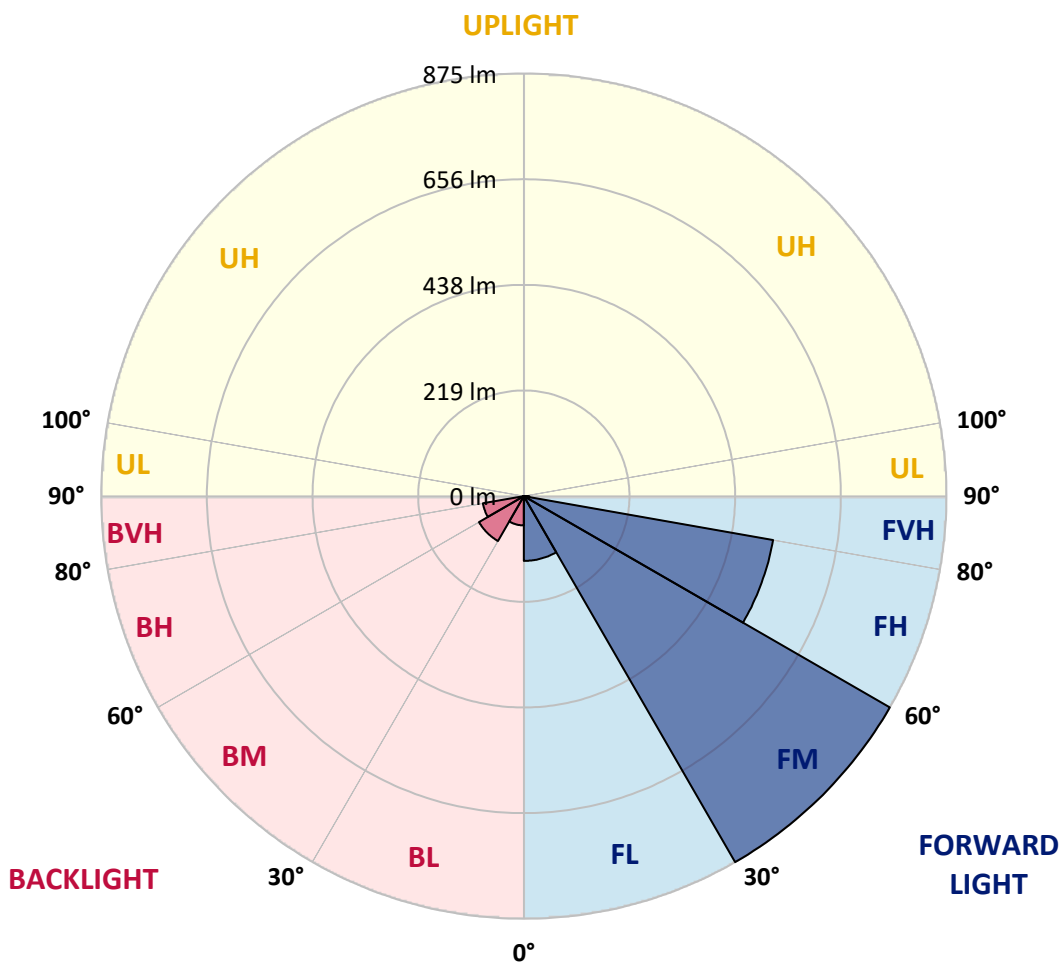
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	134.2	7.4			
FM (30°-60°)	875.2	48.6			
FH (60°-80°)	524.1	29.1			G0/660
FVH (80°-90°)	11.5	0.6			G1/100
BL (0°-30°)	60.6	3.4	B0/110		
BM (30°-60°)	107.3	6.0	B0/220		
BH (60°-80°)	86.0	4.8	B0/110		G0/110
BVH (80°-90°)	2.0	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9
2.5°	271.3	273.9	273.9	273.0	270.5	268.7	267.9	266.2	264.4	264.4	265.3
5°	273.9	271.3	274.7	270.5	270.5	270.5	273.9	272.2	271.3	267.0	267.0
7.5°	273.9	271.3	271.3	273.9	271.3	273.0	277.3	275.6	279.0	271.3	273.0
10°	266.2	265.3	267.0	270.5	271.3	274.7	279.0	287.6	288.5	283.3	282.5
12.5°	250.7	249.8	255.9	257.6	267.9	276.5	289.3	296.2	303.9	301.4	296.2
15°	239.5	241.3	245.6	252.4	261.9	277.3	291.9	307.4	321.1	317.7	316.0
17.5°	243.8	243.0	243.8	248.1	260.1	275.6	300.5	318.5	338.3	338.3	340.0
20°	256.7	259.3	258.4	255.9	261.9	274.7	300.5	332.3	364.9	362.3	362.3
22.5°	279.0	279.9	274.7	273.0	272.2	279.9	305.7	349.4	387.2	392.4	390.7
25°	302.2	303.1	301.4	296.2	289.3	291.1	315.1	363.2	418.1	426.7	425.0
27.5°	340.9	340.0	335.7	329.7	319.4	311.7	329.7	373.5	442.2	456.8	452.5
30°	379.5	376.9	370.9	363.2	353.7	339.1	347.7	393.2	472.2	486.0	476.5
32.5°	426.7	421.6	423.3	411.3	391.5	368.3	366.6	411.3	496.3	516.0	508.3
35°	486.8	480.8	472.2	461.1	442.2	411.3	401.8	440.4	536.6	551.2	551.2
37.5°	565.8	571.8	561.5	515.1	494.5	465.3	445.6	470.5	571.8	607.0	598.4
40°	646.5	651.7	632.8	598.4	553.8	517.7	505.7	519.4	625.0	667.1	650.8
42.5°	711.8	718.6	711.8	667.1	631.9	585.5	564.1	577.0	693.7	744.4	722.9
45°	780.4	787.3	779.6	750.4	716.1	689.4	635.3	651.7	765.9	841.4	817.4
47.5°	832.0	840.5	826.8	820.8	793.3	789.0	697.2	715.2	841.4	939.3	909.2
50°	844.0	853.4	865.4	872.3	862.9	873.2	780.4	795.9	920.4	1029.4	1000.2
52.5°	815.6	825.1	851.7	883.5	927.3	958.2	864.6	877.5	1002.8	1104.1	1088.7
55°	732.4	741.0	795.0	838.0	942.7	993.4	945.3	999.4	1062.1	1182.3	1144.5
57.5°	592.4	602.7	674.0	740.1	891.2	973.6	993.4	1100.7	1159.9	1239.8	1196.0
60°	420.7	426.7	488.5	605.3	748.7	874.9	983.9	1176.3	1237.2	1317.1	1293.9
62.5°	242.1	247.3	311.7	421.6	564.9	730.6	941.9	1247.5	1320.5	1402.1	1389.2
65°	160.6	162.3	206.1	266.2	367.5	538.3	835.4	1311.0	1402.9	1469.9	1455.3
67.5°	105.6	115.0	149.4	190.6	235.3	297.9	680.9	1337.7	1497.4	1564.3	1560.9
70°	75.6	79.0	107.3	146.8	176.9	167.4	398.4	1149.6	1493.1	1590.1	1561.8
72.5°	44.6	48.1	71.3	109.9	139.1	106.5	186.3	813.1	1237.2	1269.0	1261.2
75°	32.6	32.6	43.8	79.0	101.3	76.4	87.6	514.3	821.7	892.1	891.2
77.5°	23.2	24.0	30.1	47.2	78.1	55.8	48.1	285.9	449.0	491.1	467.9
80°	13.7	14.6	20.6	28.3	56.7	40.4	31.8	130.5	172.6	174.3	165.7
82.5°	10.3	10.3	13.7	19.7	39.5	27.5	19.7	49.8	55.8	50.7	42.9
85°	6.0	5.2	10.3	14.6	23.2	15.5	13.7	23.2	25.8	18.9	17.2
87.5°	1.7	1.7	4.3	5.2	10.3	8.6	6.0	8.6	12.0	6.9	5.2
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°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9
2.5°	263.6	261.0	256.7	255.0	249.0	246.4	244.7	240.4	241.3	238.7	238.7
5°	261.0	261.0	252.4	243.0	233.5	227.5	220.7	212.1	212.1	208.6	209.5
7.5°	270.5	263.6	252.4	235.3	219.8	206.1	200.0	191.5	186.3	183.7	183.7
10°	276.5	269.6	250.7	230.1	210.4	193.2	180.3	168.3	161.4	161.4	160.6
12.5°	292.8	282.5	257.6	229.2	200.0	174.3	154.5	140.8	131.4	124.5	126.2
15°	306.5	295.4	261.0	222.4	182.0	146.0	121.9	96.2	83.3	76.4	73.8
17.5°	328.0	307.4	268.7	210.4	154.5	114.2	79.0	57.5	52.4	51.5	51.5
20°	346.0	322.0	269.6	187.2	127.1	73.0	50.7	47.2	44.6	43.8	42.9
22.5°	370.9	340.9	266.2	160.6	91.0	48.9	42.9	39.5	37.8	35.2	35.2
25°	396.7	365.8	259.3	135.7	55.8	42.1	37.8	34.3	30.9	29.2	30.1
27.5°	424.1	384.6	239.5	105.6	42.9	36.9	30.9	28.3	26.6	25.8	25.8
30°	446.5	396.7	210.4	70.4	38.6	32.6	27.5	24.9	23.2	22.3	22.3
32.5°	462.8	407.0	177.7	47.2	35.2	29.2	24.9	22.3	20.6	19.7	19.7
35°	490.2	414.7	147.7	40.4	31.8	25.8	21.5	19.7	18.0	18.0	18.0
37.5°	532.3	425.0	117.6	36.9	29.2	23.2	20.6	18.0	17.2	16.3	16.3
40°	569.2	437.9	84.1	33.5	26.6	21.5	18.0	16.3	15.5	14.6	14.6
42.5°	622.5	452.5	54.9	30.1	24.0	19.7	16.3	14.6	13.7	12.9	12.9
45°	690.3	476.5	42.9	26.6	21.5	18.0	15.5	13.7	12.0	12.0	11.2
47.5°	762.4	505.7	38.6	24.9	19.7	16.3	13.7	12.0	11.2	10.3	10.3
50°	829.4	534.0	36.1	23.2	18.0	15.5	12.9	11.2	9.4	8.6	8.6
52.5°	889.5	560.7	34.3	21.5	17.2	13.7	11.2	9.4	8.6	7.7	7.7
55°	921.3	572.7	33.5	20.6	15.5	12.9	10.3	8.6	7.7	6.9	6.9
57.5°	971.1	588.1	32.6	19.7	14.6	11.2	9.4	7.7	6.9	6.0	6.0
60°	1051.8	638.8	31.8	18.9	13.7	11.2	8.6	6.9	5.2	4.3	4.3
62.5°	1118.7	680.9	28.3	16.3	12.0	9.4	6.9	5.2	3.4	2.6	2.6
65°	1195.1	700.6	24.9	14.6	10.3	7.7	5.2	3.4	2.6	0.9	0.9
67.5°	1278.4	730.6	20.6	12.9	9.4	6.0	4.3	2.6	0.9	0.0	0.0
70°	1234.6	692.9	17.2	11.2	8.6	5.2	3.4	1.7	0.0	0.0	0.0
72.5°	967.6	496.3	13.7	10.3	7.7	5.2	3.4	0.9	0.0	0.0	0.0
75°	646.5	280.8	12.0	8.6	6.0	4.3	2.6	0.9	0.0	0.0	0.0
77.5°	351.2	126.2	10.3	7.7	5.2	3.4	2.6	0.9	0.0	0.0	0.0
80°	114.2	49.8	8.6	6.9	5.2	3.4	2.6	0.9	0.0	0.0	0.0
82.5°	30.9	15.5	8.6	6.9	5.2	3.4	2.6	0.9	0.0	0.0	0.0
85°	12.9	10.3	8.6	6.9	5.2	3.4	2.6	0.9	0.0	0.0	0.0
87.5°	5.2	3.4	3.4	4.3	3.4	2.6	1.7	0.9	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9
2.5°	239.5	241.3	242.1	242.1	246.4	250.7	255.9	260.1	260.1	262.7	265.3
5°	210.4	212.1	214.6	222.4	231.0	240.4	249.8	256.7	266.2	270.5	273.0
7.5°	186.3	188.0	194.9	202.6	214.6	231.0	247.3	262.7	272.2	276.5	279.9
10°	161.4	164.0	171.7	185.5	200.9	220.7	239.5	266.2	281.6	290.2	293.6
12.5°	125.4	132.2	142.5	157.1	176.9	206.9	242.1	269.6	296.2	306.5	313.4
15°	79.0	85.0	101.3	124.5	151.1	186.3	235.3	274.7	311.7	322.0	333.1
17.5°	50.7	51.5	56.7	81.6	115.9	160.6	224.9	282.5	328.8	343.4	360.6
20°	42.9	44.6	45.5	48.9	77.3	132.2	203.5	291.9	349.4	369.2	385.5
22.5°	36.1	36.9	38.6	41.2	46.4	96.2	174.3	291.9	367.5	396.7	415.6
25°	29.2	30.9	32.6	35.2	40.4	60.1	144.2	286.8	388.9	425.0	449.0
27.5°	25.8	25.8	27.5	30.1	34.3	42.1	114.2	271.3	405.2	442.2	473.9
30°	22.3	23.2	24.0	26.6	30.9	36.9	79.0	246.4	422.4	475.7	511.7
32.5°	19.7	19.7	21.5	23.2	27.5	33.5	50.7	208.6	444.7	501.4	552.1
35°	18.0	18.0	18.9	20.6	24.9	30.1	39.5	176.9	471.4	550.3	606.2
37.5°	16.3	16.3	17.2	18.9	22.3	26.6	36.1	152.0	498.8	599.3	680.9
40°	14.6	14.6	15.5	17.2	19.7	24.0	32.6	122.8	533.2	671.4	762.4
42.5°	12.9	12.9	13.7	15.5	18.0	21.5	28.3	91.9	578.7	749.5	868.0
45°	11.2	11.2	12.0	13.7	15.5	19.7	25.8	70.4	628.5	836.3	960.7
47.5°	9.4	10.3	11.2	12.9	14.6	18.0	23.2	61.8	677.4	928.1	1063.8
50°	8.6	8.6	9.4	11.2	13.7	16.3	21.5	61.0	727.2	998.5	1169.4
52.5°	7.7	7.7	8.6	10.3	12.9	15.5	20.6	62.7	768.4	1063.8	1243.2
55°	6.9	6.9	7.7	8.6	11.2	14.6	18.9	64.4	797.6	1129.9	1302.5
57.5°	6.0	6.0	6.9	8.6	10.3	12.9	17.2	66.1	844.8	1195.1	1388.3
60°	4.3	4.3	6.0	7.7	9.4	11.2	16.3	67.8	920.4	1285.3	1461.3
62.5°	2.6	2.6	3.4	6.0	7.7	10.3	14.6	64.4	990.8	1401.2	1572.9
65°	0.9	1.7	2.6	3.4	6.0	8.6	12.0	58.4	1050.0	1517.1	1675.9
67.5°	0.0	0.0	0.9	2.6	5.2	6.9	10.3	42.9	1059.5	1569.5	1781.5
70°	0.0	0.0	0.9	2.6	4.3	6.9	9.4	24.0	902.4	1402.1	1633.0
72.5°	0.0	0.0	0.0	1.7	4.3	6.0	8.6	18.0	665.4	1056.9	1290.4
75°	0.0	0.0	0.0	0.9	3.4	5.2	7.7	13.7	404.4	704.9	842.3
77.5°	0.0	0.0	0.0	0.9	2.6	5.2	7.7	12.0	142.5	335.7	395.8
80°	0.0	0.0	0.0	1.7	3.4	5.2	6.9	10.3	34.3	84.1	113.3
82.5°	0.0	0.0	0.0	0.9	2.6	4.3	6.0	8.6	13.7	24.9	39.5
85°	0.0	0.0	0.0	0.9	1.7	4.3	6.0	7.7	9.4	12.0	17.2
87.5°	0.0	0.0	0.0	0.0	0.9	1.7	2.6	3.4	3.4	3.4	6.0
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9
2.5°	264.4	267.9	269.6	273.0	274.7	273.9	273.0	275.6	273.9	271.3
5°	273.9	273.9	276.5	277.3	277.3	274.7	276.5	275.6	273.9	273.9
7.5°	284.2	288.5	288.5	283.3	282.5	280.8	280.8	273.9	271.3	273.9
10°	294.5	297.9	298.8	292.8	285.0	281.6	277.3	268.7	264.4	266.2
12.5°	316.0	316.0	306.5	299.6	289.3	277.3	267.0	255.0	249.0	250.7
15°	331.4	334.8	322.0	306.5	288.5	266.2	255.0	245.6	242.1	239.5
17.5°	361.5	354.6	334.0	311.7	285.9	262.7	255.0	246.4	243.8	243.8
20°	387.2	383.8	352.9	312.5	285.0	269.6	264.4	260.1	259.3	256.7
22.5°	422.4	407.0	367.5	322.0	294.5	280.8	279.0	283.3	280.8	279.0
25°	449.0	436.2	378.6	335.7	309.1	304.8	307.4	311.7	304.8	302.2
27.5°	485.1	461.1	400.1	353.7	328.8	333.1	341.7	342.6	338.3	340.9
30°	518.6	492.8	416.4	374.3	362.3	366.6	379.5	388.9	382.9	379.5
32.5°	566.7	527.2	449.0	408.7	404.4	415.6	430.1	436.2	428.4	426.7
35°	617.3	566.7	482.5	447.3	455.0	470.5	483.4	493.7	481.7	486.8
37.5°	696.3	630.2	539.2	508.3	511.7	517.7	541.8	570.1	576.1	565.8
40°	778.7	698.9	591.6	567.5	575.2	591.6	619.9	646.5	660.2	646.5
42.5°	874.0	765.0	672.3	643.9	651.7	674.8	712.6	734.1	732.4	711.8
45°	991.7	856.9	747.8	712.6	741.0	761.6	799.3	801.9	785.6	780.4
47.5°	1081.8	934.1	829.4	807.1	845.7	846.6	855.1	856.0	838.0	832.0
50°	1181.4	1023.4	920.4	887.8	953.0	923.0	899.8	884.3	856.9	844.0
52.5°	1279.3	1087.0	1004.5	971.1	1038.9	959.0	917.0	869.7	829.4	815.6
55°	1331.7	1191.7	1127.3	1049.2	1057.8	969.3	863.7	804.5	735.8	732.4
57.5°	1393.5	1262.1	1231.2	1102.4	1026.0	897.2	753.0	674.8	601.0	592.4
60°	1466.4	1373.7	1341.1	1093.8	913.5	753.8	596.7	496.3	426.7	420.7
62.5°	1548.0	1505.9	1408.9	1009.7	725.5	530.6	394.1	309.9	245.6	242.1
65°	1676.8	1616.7	1445.0	850.0	479.9	340.0	261.9	200.9	162.3	160.6
67.5°	1757.5	1658.8	1364.3	606.2	266.2	224.9	183.7	146.0	112.5	105.6
70°	1643.3	1522.3	1079.2	346.9	154.5	170.9	141.7	97.9	77.3	75.6
72.5°	1312.8	1129.9	726.4	163.1	96.2	133.9	103.0	66.1	46.4	44.6
75°	895.5	710.9	455.9	75.6	67.8	97.9	75.6	38.6	32.6	32.6
77.5°	400.1	362.3	233.5	46.4	50.7	74.7	43.8	26.6	24.0	23.2
80°	121.9	127.9	95.3	31.8	37.8	56.7	26.6	18.0	14.6	13.7
82.5°	41.2	48.1	42.9	18.9	25.8	40.4	18.0	12.0	10.3	10.3
85°	19.7	24.0	21.5	12.0	13.7	19.7	14.6	9.4	6.0	6.0
87.5°	7.7	11.2	7.7	5.2	7.7	10.3	6.0	4.3	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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