

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: P676329

Luminaire Tested: **CCW-SA-1A-835-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676329
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

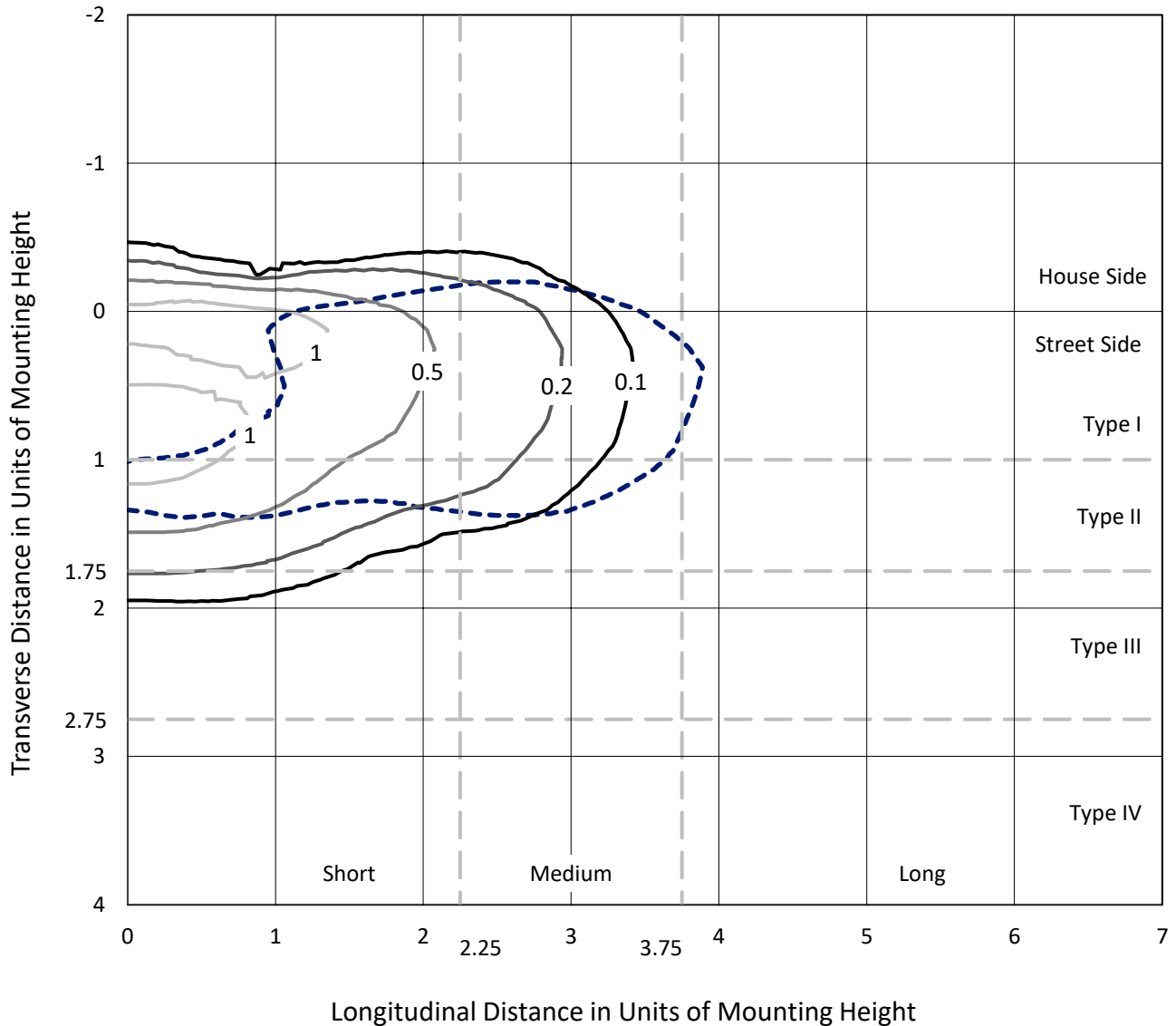
Lumens per Lamp: N/A
Luminaire Lumens: 1740.4 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

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

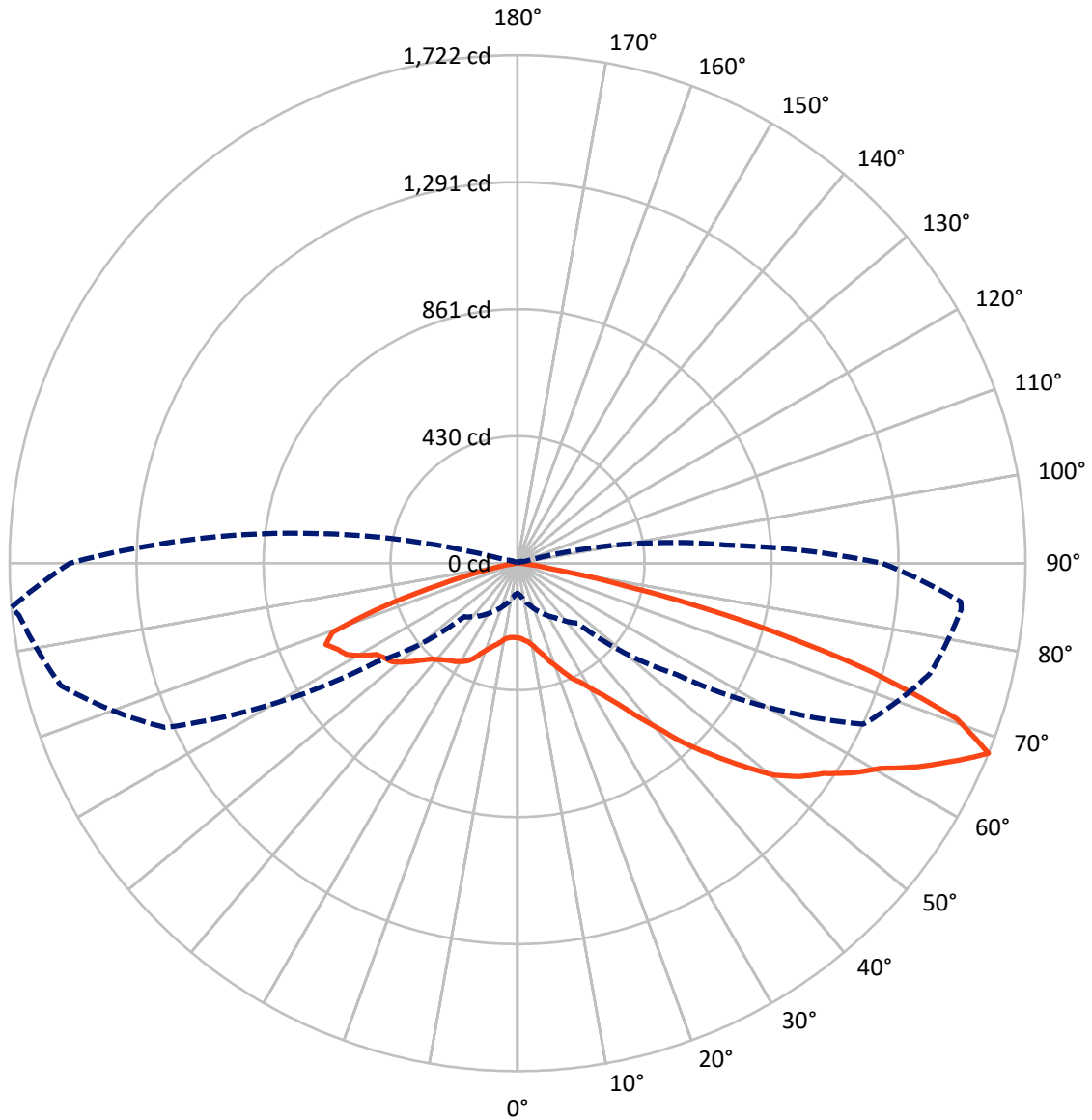
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 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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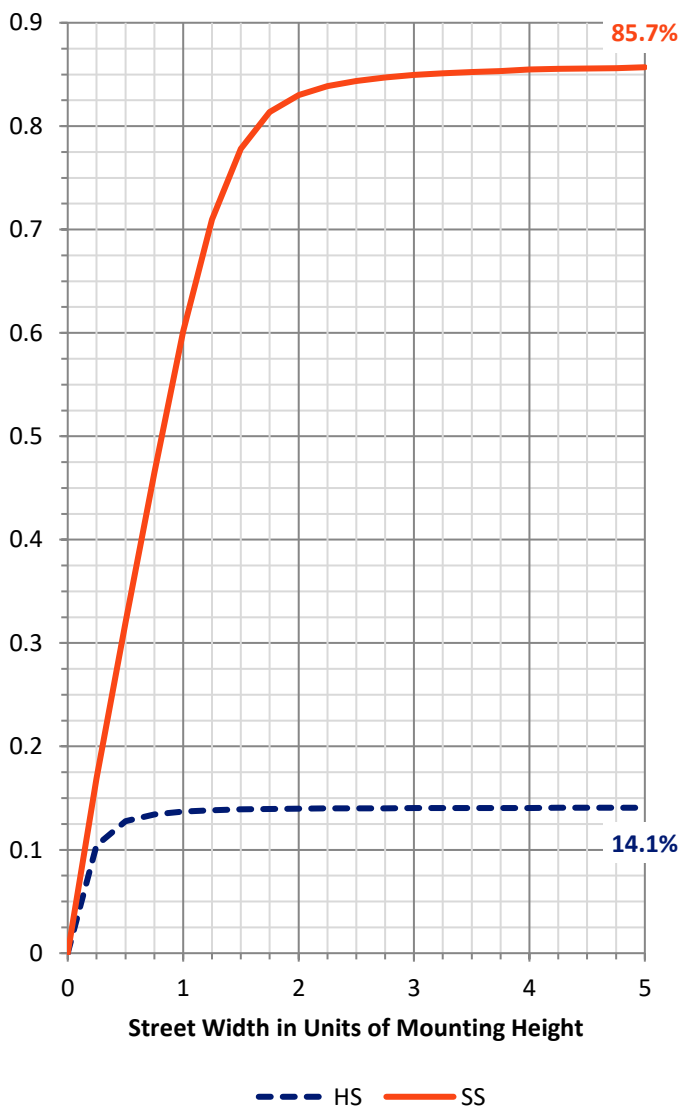
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	247.2	0.0	247.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1493.2	0.0	1493.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	1740.4	0.0	1740.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	1.3
10°-20°	62.1	3.6
20°-30°	103.1	5.9
30°-40°	177.3	10.2
40°-50°	318.6	18.3
50°-60°	453.6	26.1
60°-70°	413.5	23.8
70°-80°	176.1	10.1
80°-90°	13.1	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°	1740.4	100.0
0°-180°	1740.4	100.0



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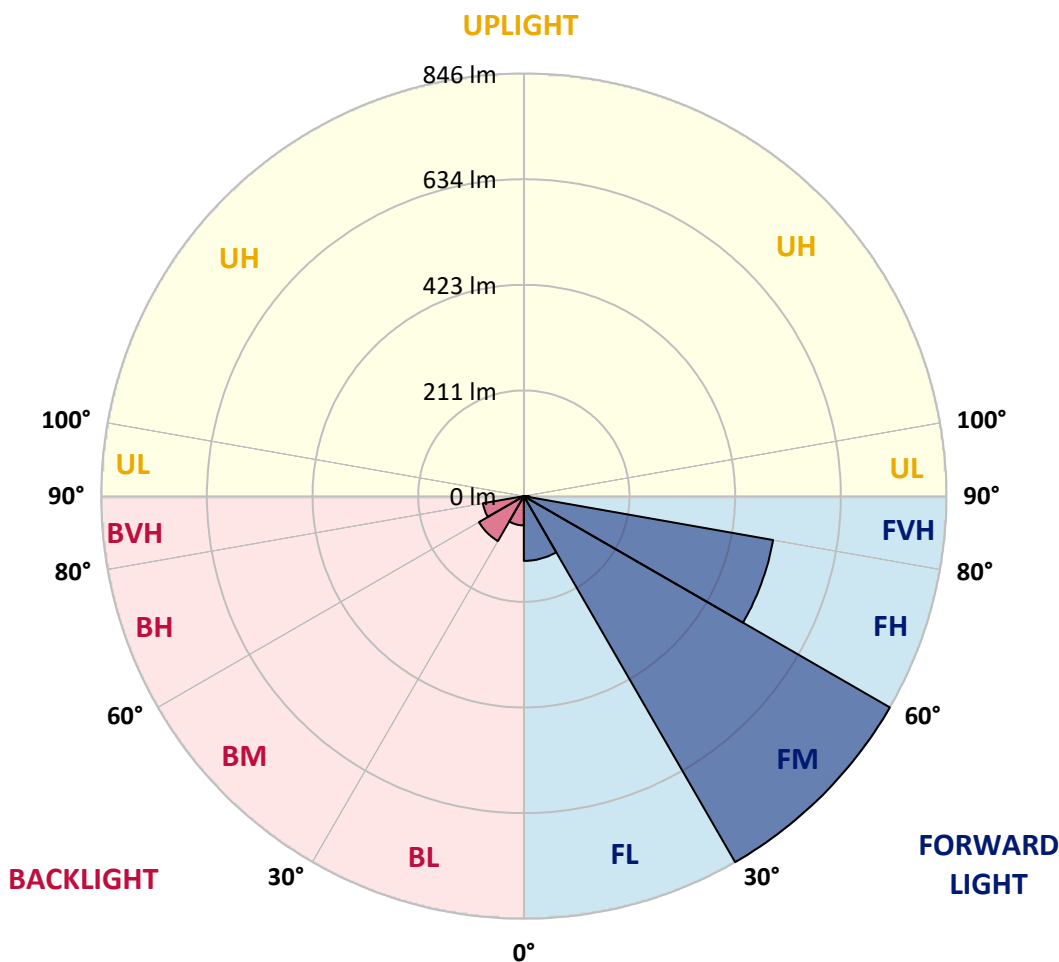
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	129.7	7.4			
FM (30°-60°)	845.8	48.6			
FH (60°-80°)	506.5	29.1			G0/660
FVH (80°-90°)	11.1	0.6			G1/100
BL (0°-30°)	58.5	3.4	B0/110		
BM (30°-60°)	103.7	6.0	B0/220		
BH (60°-80°)	83.1	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°	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1
2.5°	262.2	264.7	264.7	263.9	261.4	259.7	258.9	257.2	255.6	255.6	256.4
5°	264.7	262.2	265.5	261.4	261.4	261.4	264.7	263.0	262.2	258.1	258.1
7.5°	264.7	262.2	262.2	264.7	262.2	263.9	268.0	266.4	269.7	262.2	263.9
10°	257.2	256.4	258.1	261.4	262.2	265.5	269.7	278.0	278.8	273.8	273.0
12.5°	242.3	241.5	247.3	248.9	258.9	267.2	279.6	286.3	293.7	291.3	286.3
15°	231.5	233.2	237.3	244.0	253.1	268.0	282.1	297.1	310.3	307.0	305.4
17.5°	235.7	234.8	235.7	239.8	251.4	266.4	290.4	307.8	326.9	326.9	328.6
20°	248.1	250.6	249.8	247.3	253.1	265.5	290.4	321.1	352.7	350.2	350.2
22.5°	269.7	270.5	265.5	263.9	263.0	270.5	295.4	337.7	374.2	379.2	377.5
25°	292.1	292.9	291.3	286.3	279.6	281.3	304.5	351.0	404.1	412.4	410.7
27.5°	329.4	328.6	324.4	318.6	308.7	301.2	318.6	361.0	427.3	441.4	437.3
30°	366.8	364.3	358.5	351.0	341.9	327.8	336.1	380.0	456.4	469.7	460.5
32.5°	412.4	407.4	409.1	397.5	378.4	356.0	354.3	397.5	479.6	498.7	491.2
35°	470.5	464.7	456.4	445.6	427.3	397.5	388.3	425.7	518.6	532.7	532.7
37.5°	546.8	552.6	542.7	497.9	478.0	449.7	430.7	454.7	552.6	586.7	578.4
40°	624.8	629.8	611.5	578.4	535.2	500.4	488.7	502.0	604.1	644.7	629.0
42.5°	687.9	694.5	687.9	644.7	610.7	565.9	545.2	557.6	670.5	719.4	698.7
45°	754.3	760.9	753.4	725.2	692.0	666.3	614.0	629.8	740.2	813.2	789.9
47.5°	804.1	812.4	799.1	793.3	766.7	762.6	673.8	691.2	813.2	907.8	878.7
50°	815.7	824.8	836.4	843.1	833.9	843.9	754.3	769.2	889.5	994.9	966.7
52.5°	788.3	797.4	823.1	853.8	896.2	926.0	835.6	848.0	969.2	1067.1	1052.2
55°	707.8	716.1	768.4	809.9	911.1	960.1	913.6	965.9	1026.4	1142.6	1106.1
57.5°	572.5	582.5	651.4	715.3	861.3	941.0	960.1	1063.8	1121.0	1198.2	1155.9
60°	406.6	412.4	472.1	585.0	723.6	845.5	950.9	1136.8	1195.7	1272.9	1250.5
62.5°	234.0	239.0	301.2	407.4	546.0	706.1	910.3	1205.7	1276.2	1355.0	1342.6
65°	155.2	156.8	199.1	257.2	355.1	520.3	807.4	1267.1	1355.9	1420.6	1406.5
67.5°	102.1	111.2	144.4	184.2	227.4	287.9	658.0	1292.8	1447.1	1511.9	1508.5
70°	73.0	76.3	103.7	141.9	170.9	161.8	385.0	1111.1	1443.0	1536.7	1509.4
72.5°	43.1	46.5	68.9	106.2	134.4	102.9	180.1	785.8	1195.7	1226.4	1218.9
75°	31.5	31.5	42.3	76.3	97.9	73.9	84.6	497.0	794.1	862.1	861.3
77.5°	22.4	23.2	29.0	45.6	75.5	53.9	46.5	276.3	434.0	474.6	452.2
80°	13.3	14.1	19.9	27.4	54.8	39.0	30.7	126.1	166.8	168.4	160.1
82.5°	10.0	10.0	13.3	19.1	38.2	26.6	19.1	48.1	53.9	49.0	41.5
85°	5.8	5.0	10.0	14.1	22.4	14.9	13.3	22.4	24.9	18.3	16.6
87.5°	1.7	1.7	4.1	5.0	10.0	8.3	5.8	8.3	11.6	6.6	5.0
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°	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1
2.5°	254.7	252.3	248.1	246.4	240.6	238.1	236.5	232.3	233.2	230.7	230.7
5°	252.3	252.3	244.0	234.8	225.7	219.9	213.3	205.0	205.0	201.6	202.5
7.5°	261.4	254.7	244.0	227.4	212.4	199.1	193.3	185.0	180.1	177.6	177.6
10°	267.2	260.5	242.3	222.4	203.3	186.7	174.3	162.6	156.0	156.0	155.2
12.5°	283.0	273.0	248.9	221.6	193.3	168.4	149.4	136.1	127.0	120.3	122.0
15°	296.2	285.4	252.3	214.9	175.9	141.1	117.8	92.9	80.5	73.9	71.4
17.5°	317.0	297.1	259.7	203.3	149.4	110.4	76.3	55.6	50.6	49.8	49.8
20°	334.4	311.2	260.5	180.9	122.8	70.5	49.0	45.6	43.1	42.3	41.5
22.5°	358.5	329.4	257.2	155.2	88.0	47.3	41.5	38.2	36.5	34.0	34.0
25°	383.4	353.5	250.6	131.1	53.9	40.7	36.5	33.2	29.9	28.2	29.0
27.5°	409.9	371.7	231.5	102.1	41.5	35.7	29.9	27.4	25.7	24.9	24.9
30°	431.5	383.4	203.3	68.0	37.3	31.5	26.6	24.1	22.4	21.6	21.6
32.5°	447.2	393.3	171.8	45.6	34.0	28.2	24.1	21.6	19.9	19.1	19.1
35°	473.8	400.8	142.7	39.0	30.7	24.9	20.7	19.1	17.4	17.4	17.4
37.5°	514.5	410.7	113.7	35.7	28.2	22.4	19.9	17.4	16.6	15.8	15.8
40°	550.1	423.2	81.3	32.4	25.7	20.7	17.4	15.8	14.9	14.1	14.1
42.5°	601.6	437.3	53.1	29.0	23.2	19.1	15.8	14.1	13.3	12.4	12.4
45°	667.1	460.5	41.5	25.7	20.7	17.4	14.9	13.3	11.6	11.6	10.8
47.5°	736.8	488.7	37.3	24.1	19.1	15.8	13.3	11.6	10.8	10.0	10.0
50°	801.6	516.1	34.9	22.4	17.4	14.9	12.4	10.8	9.1	8.3	8.3
52.5°	859.6	541.8	33.2	20.7	16.6	13.3	10.8	9.1	8.3	7.5	7.5
55°	890.4	553.5	32.4	19.9	14.9	12.4	10.0	8.3	7.5	6.6	6.6
57.5°	938.5	568.4	31.5	19.1	14.1	10.8	9.1	7.5	6.6	5.8	5.8
60°	1016.5	617.4	30.7	18.3	13.3	10.8	8.3	6.6	5.0	4.1	4.1
62.5°	1081.2	658.0	27.4	15.8	11.6	9.1	6.6	5.0	3.3	2.5	2.5
65°	1155.0	677.1	24.1	14.1	10.0	7.5	5.0	3.3	2.5	0.8	0.8
67.5°	1235.5	706.1	19.9	12.4	9.1	5.8	4.1	2.5	0.8	0.0	0.0
70°	1193.2	669.6	16.6	10.8	8.3	5.0	3.3	1.7	0.0	0.0	0.0
72.5°	935.2	479.6	13.3	10.0	7.5	5.0	3.3	0.8	0.0	0.0	0.0
75°	624.8	271.3	11.6	8.3	5.8	4.1	2.5	0.8	0.0	0.0	0.0
77.5°	339.4	122.0	10.0	7.5	5.0	3.3	2.5	0.8	0.0	0.0	0.0
80°	110.4	48.1	8.3	6.6	5.0	3.3	2.5	0.8	0.0	0.0	0.0
82.5°	29.9	14.9	8.3	6.6	5.0	3.3	2.5	0.8	0.0	0.0	0.0
85°	12.4	10.0	8.3	6.6	5.0	3.3	2.5	0.8	0.0	0.0	0.0
87.5°	5.0	3.3	3.3	4.1	3.3	2.5	1.7	0.8	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°	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1
2.5°	231.5	233.2	234.0	234.0	238.1	242.3	247.3	251.4	251.4	253.9	256.4
5°	203.3	205.0	207.4	214.9	223.2	232.3	241.5	248.1	257.2	261.4	263.9
7.5°	180.1	181.7	188.4	195.8	207.4	223.2	239.0	253.9	263.0	267.2	270.5
10°	156.0	158.5	166.0	179.2	194.2	213.3	231.5	257.2	272.2	280.5	283.8
12.5°	121.1	127.8	137.7	151.8	170.9	200.0	234.0	260.5	286.3	296.2	302.9
15°	76.3	82.1	97.9	120.3	146.0	180.1	227.4	265.5	301.2	311.2	322.0
17.5°	49.0	49.8	54.8	78.8	112.0	155.2	217.4	273.0	317.8	331.9	348.5
20°	41.5	43.1	44.0	47.3	74.7	127.8	196.7	282.1	337.7	356.8	372.6
22.5°	34.9	35.7	37.3	39.8	44.8	92.9	168.4	282.1	355.1	383.4	401.6
25°	28.2	29.9	31.5	34.0	39.0	58.1	139.4	277.1	375.9	410.7	434.0
27.5°	24.9	24.9	26.6	29.0	33.2	40.7	110.4	262.2	391.7	427.3	458.0
30°	21.6	22.4	23.2	25.7	29.9	35.7	76.3	238.1	408.2	459.7	494.5
32.5°	19.1	19.1	20.7	22.4	26.6	32.4	49.0	201.6	429.8	484.6	533.5
35°	17.4	17.4	18.3	19.9	24.1	29.0	38.2	170.9	455.5	531.9	585.8
37.5°	15.8	15.8	16.6	18.3	21.6	25.7	34.9	146.9	482.1	579.2	658.0
40°	14.1	14.1	14.9	16.6	19.1	23.2	31.5	118.7	515.3	648.9	736.8
42.5°	12.4	12.4	13.3	14.9	17.4	20.7	27.4	88.8	559.3	724.4	838.9
45°	10.8	10.8	11.6	13.3	14.9	19.1	24.9	68.0	607.4	808.2	928.5
47.5°	9.1	10.0	10.8	12.4	14.1	17.4	22.4	59.7	654.7	897.0	1028.1
50°	8.3	8.3	9.1	10.8	13.3	15.8	20.7	58.9	702.8	965.0	1130.2
52.5°	7.5	7.5	8.3	10.0	12.4	14.9	19.9	60.6	742.6	1028.1	1201.5
55°	6.6	6.6	7.5	8.3	10.8	14.1	18.3	62.2	770.9	1092.0	1258.8
57.5°	5.8	5.8	6.6	8.3	10.0	12.4	16.6	63.9	816.5	1155.0	1341.7
60°	4.1	4.1	5.8	7.5	9.1	10.8	15.8	65.6	889.5	1242.2	1412.3
62.5°	2.5	2.5	3.3	5.8	7.5	10.0	14.1	62.2	957.6	1354.2	1520.2
65°	0.8	1.7	2.5	3.3	5.8	8.3	11.6	56.4	1014.8	1466.2	1619.7
67.5°	0.0	0.0	0.8	2.5	5.0	6.6	10.0	41.5	1023.9	1516.8	1721.8
70°	0.0	0.0	0.8	2.5	4.1	6.6	9.1	23.2	872.1	1355.0	1578.2
72.5°	0.0	0.0	0.0	1.7	4.1	5.8	8.3	17.4	643.1	1021.5	1247.2
75°	0.0	0.0	0.0	0.8	3.3	5.0	7.5	13.3	390.8	681.2	814.0
77.5°	0.0	0.0	0.0	0.8	2.5	5.0	7.5	11.6	137.7	324.4	382.5
80°	0.0	0.0	0.0	1.7	3.3	5.0	6.6	10.0	33.2	81.3	109.5
82.5°	0.0	0.0	0.0	0.8	2.5	4.1	5.8	8.3	13.3	24.1	38.2
85°	0.0	0.0	0.0	0.8	1.7	4.1	5.8	7.5	9.1	11.6	16.6
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	2.5	3.3	3.3	3.3	5.8
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°	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1
2.5°	255.6	258.9	260.5	263.9	265.5	264.7	263.9	266.4	264.7	262.2
5°	264.7	264.7	267.2	268.0	268.0	265.5	267.2	266.4	264.7	264.7
7.5°	274.7	278.8	278.8	273.8	273.0	271.3	271.3	264.7	262.2	264.7
10°	284.6	287.9	288.8	283.0	275.5	272.2	268.0	259.7	255.6	257.2
12.5°	305.4	305.4	296.2	289.6	279.6	268.0	258.1	246.4	240.6	242.3
15°	320.3	323.6	311.2	296.2	278.8	257.2	246.4	237.3	234.0	231.5
17.5°	349.3	342.7	322.8	301.2	276.3	253.9	246.4	238.1	235.7	235.7
20°	374.2	370.9	341.0	302.0	275.5	260.5	255.6	251.4	250.6	248.1
22.5°	408.2	393.3	355.1	311.2	284.6	271.3	269.7	273.8	271.3	269.7
25°	434.0	421.5	365.9	324.4	298.7	294.6	297.1	301.2	294.6	292.1
27.5°	468.8	445.6	386.7	341.9	317.8	322.0	330.3	331.1	326.9	329.4
30°	501.2	476.3	402.4	361.8	350.2	354.3	366.8	375.9	370.1	366.8
32.5°	547.7	509.5	434.0	395.0	390.8	401.6	415.7	421.5	414.1	412.4
35°	596.6	547.7	466.3	432.3	439.8	454.7	467.2	477.1	465.5	470.5
37.5°	672.9	609.1	521.1	491.2	494.5	500.4	523.6	551.0	556.8	546.8
40°	752.6	675.4	571.7	548.5	556.0	571.7	599.1	624.8	638.1	624.8
42.5°	844.7	739.3	649.7	622.3	629.8	652.2	688.7	709.5	707.8	687.9
45°	958.4	828.1	722.7	688.7	716.1	736.0	772.5	775.0	759.2	754.3
47.5°	1045.5	902.8	801.6	780.0	817.3	818.2	826.5	827.3	809.9	804.1
50°	1141.8	989.1	889.5	858.0	921.1	892.0	869.6	854.7	828.1	815.7
52.5°	1236.4	1050.5	970.8	938.5	1004.0	926.9	886.2	840.6	801.6	788.3
55°	1287.0	1151.7	1089.5	1014.0	1022.3	936.8	834.8	777.5	711.1	707.8
57.5°	1346.7	1219.8	1189.9	1065.4	991.6	867.1	727.7	652.2	580.8	572.5
60°	1417.3	1327.6	1296.1	1057.1	882.9	728.5	576.7	479.6	412.4	406.6
62.5°	1496.1	1455.4	1361.7	975.8	701.2	512.8	380.9	299.5	237.3	234.0
65°	1620.6	1562.5	1396.5	821.5	463.8	328.6	253.1	194.2	156.8	155.2
67.5°	1698.6	1603.1	1318.5	585.8	257.2	217.4	177.6	141.1	108.7	102.1
70°	1588.2	1471.2	1043.0	335.2	149.4	165.1	136.9	94.6	74.7	73.0
72.5°	1268.7	1092.0	702.0	157.7	92.9	129.4	99.6	63.9	44.8	43.1
75°	865.5	687.1	440.6	73.0	65.6	94.6	73.0	37.3	31.5	31.5
77.5°	386.7	350.2	225.7	44.8	49.0	72.2	42.3	25.7	23.2	22.4
80°	117.8	123.6	92.1	30.7	36.5	54.8	25.7	17.4	14.1	13.3
82.5°	39.8	46.5	41.5	18.3	24.9	39.0	17.4	11.6	10.0	10.0
85°	19.1	23.2	20.7	11.6	13.3	19.1	14.1	9.1	5.8	5.8
87.5°	7.5	10.8	7.5	5.0	7.5	10.0	5.8	4.1	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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