

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: P676230

Luminaire Tested: **CCW-SA-1A-722-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676230
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-722-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) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

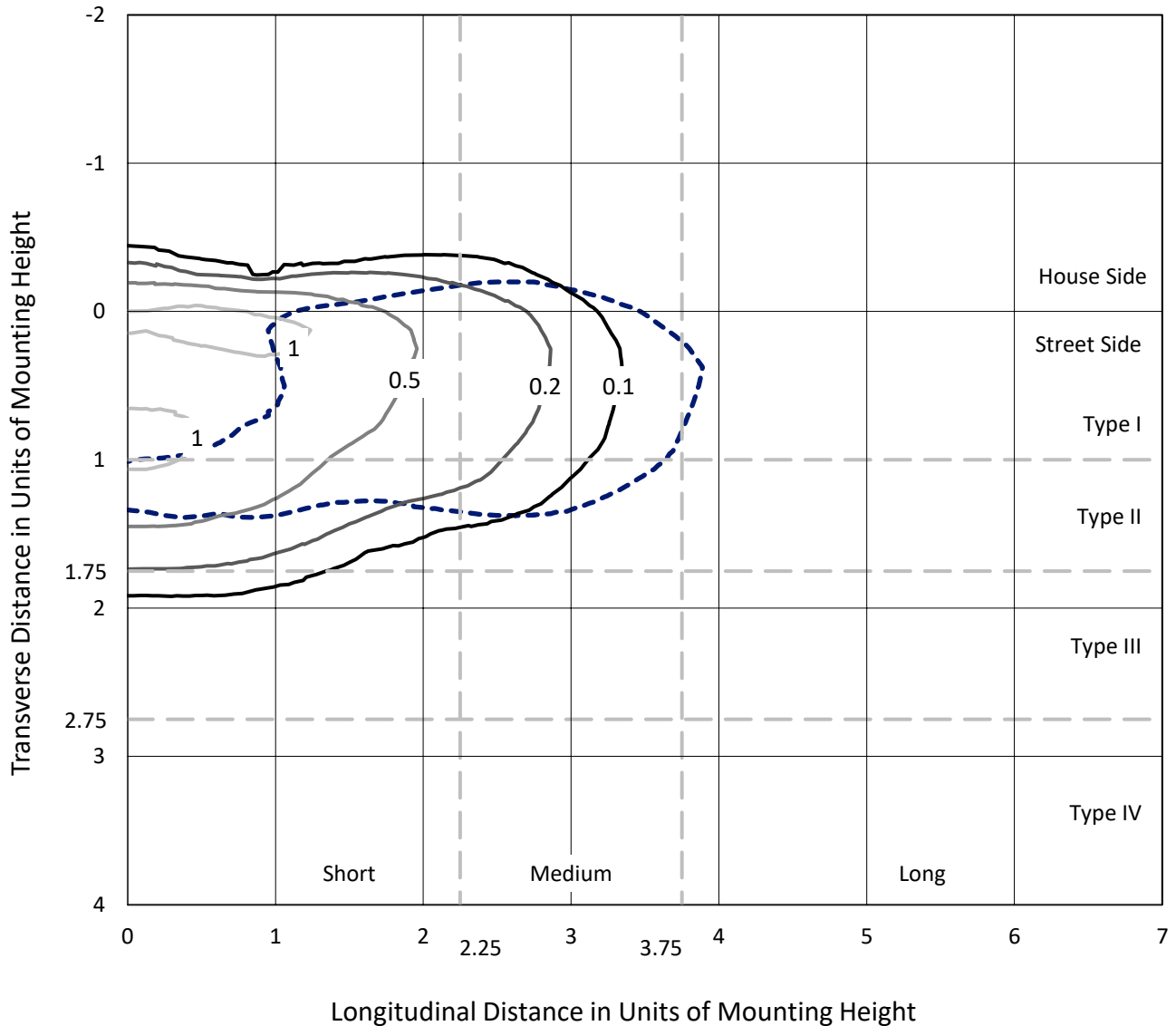
Lumens per Lamp: N/A
Luminaire Lumens: 1555.8 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

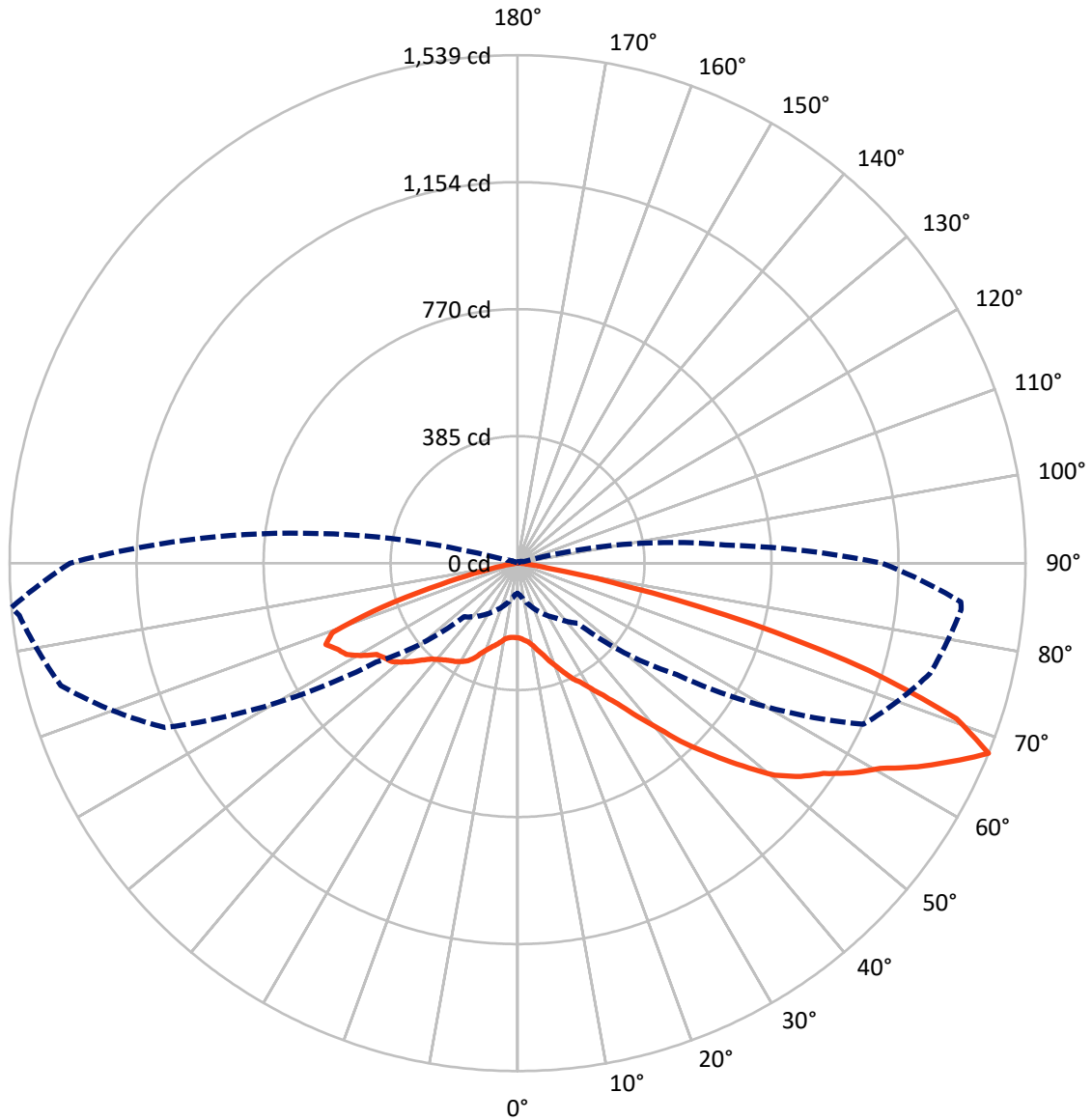
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 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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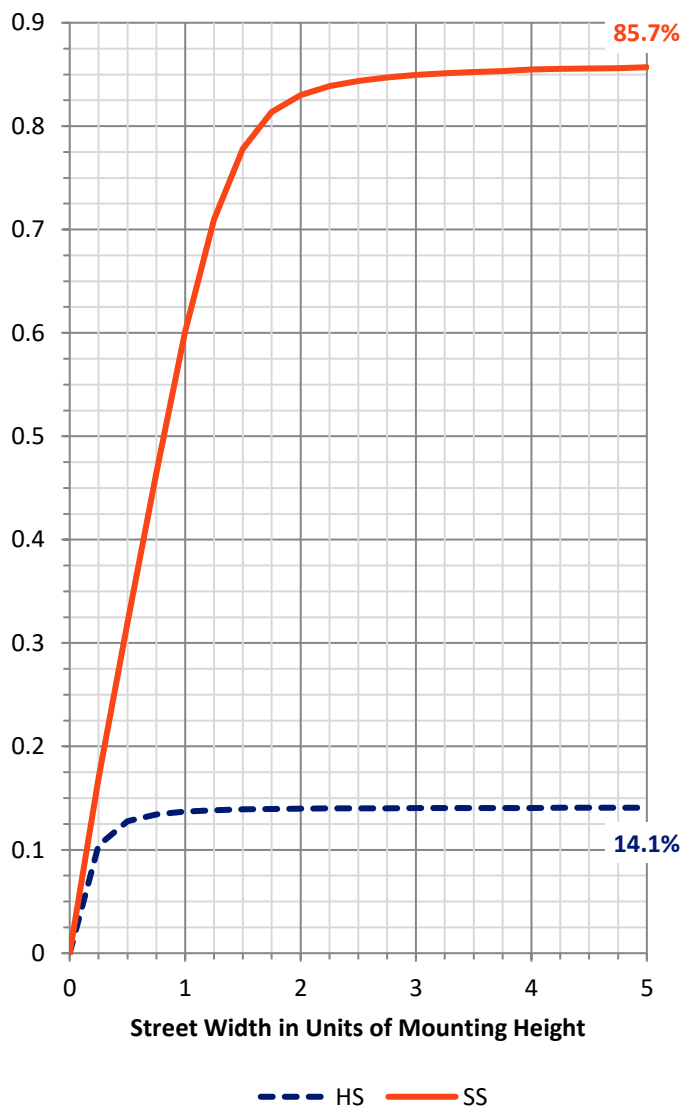
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	221.0	0.0	221.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1334.8	0.0	1334.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	1555.8	0.0	1555.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	1.3
10°-20°	55.5	3.6
20°-30°	92.1	5.9
30°-40°	158.5	10.2
40°-50°	284.8	18.3
50°-60°	405.5	26.1
60°-70°	369.7	23.8
70°-80°	157.4	10.1
80°-90°	11.7	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°	1555.8	100.0
0°-180°	1555.8	100.0



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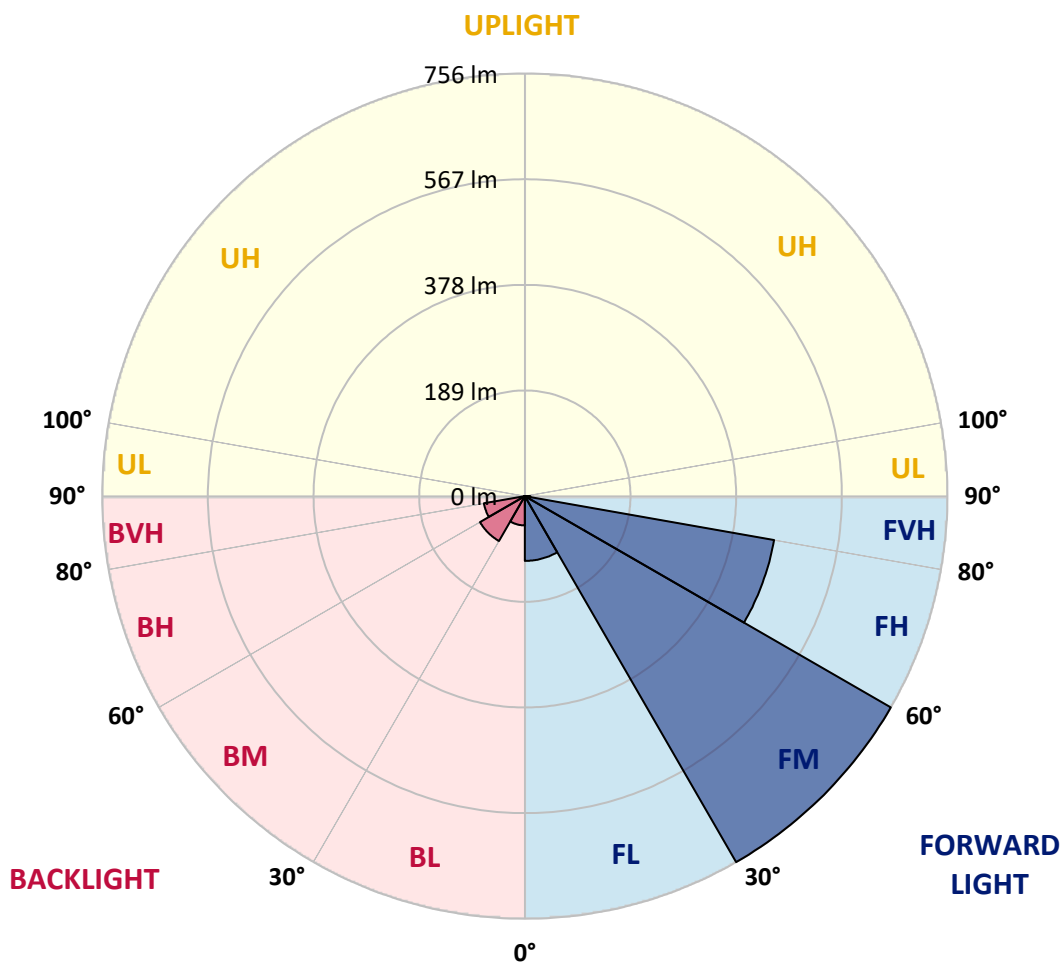
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.9	7.4			
FM (30°-60°)	756.1	48.6			
FH (60°-80°)	452.8	29.1			G0/660
FVH (80°-90°)	10.0	0.6			G0/10
BL (0°-30°)	52.3	3.4	B0/110		
BM (30°-60°)	92.7	6.0	B0/220		
BH (60°-80°)	74.3	4.8	B0/110		G0/110
BVH (80°-90°)	1.8	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2
2.5°	234.4	236.6	236.6	235.9	233.7	232.2	231.4	229.9	228.5	228.5	229.2
5°	236.6	234.4	237.4	233.7	233.7	233.7	236.6	235.1	234.4	230.7	230.7
7.5°	236.6	234.4	234.4	236.6	234.4	235.9	239.6	238.1	241.1	234.4	235.9
10°	229.9	229.2	230.7	233.7	234.4	237.4	241.1	248.5	249.2	244.8	244.0
12.5°	216.6	215.9	221.0	222.5	231.4	238.8	250.0	255.9	262.6	260.4	255.9
15°	207.0	208.4	212.1	218.1	226.2	239.6	252.2	265.6	277.4	274.5	273.0
17.5°	210.7	209.9	210.7	214.4	224.8	238.1	259.6	275.2	292.3	292.3	293.7
20°	221.8	224.0	223.3	221.0	226.2	237.4	259.6	287.1	315.2	313.0	313.0
22.5°	241.1	241.8	237.4	235.9	235.1	241.8	264.1	301.9	334.5	339.0	337.5
25°	261.1	261.8	260.4	255.9	250.0	251.5	272.2	313.8	361.2	368.7	367.2
27.5°	294.5	293.7	290.0	284.8	275.9	269.3	284.8	322.7	382.0	394.6	390.9
30°	327.9	325.6	320.4	313.8	305.6	293.0	300.4	339.7	408.0	419.8	411.7
32.5°	368.7	364.2	365.7	355.3	338.2	318.2	316.7	355.3	428.7	445.8	439.1
35°	420.6	415.4	408.0	398.3	382.0	355.3	347.1	380.5	463.6	476.2	476.2
37.5°	488.8	494.0	485.1	445.1	427.3	402.0	385.0	406.5	494.0	524.4	517.0
40°	558.5	563.0	546.7	517.0	478.4	447.3	436.9	448.8	540.0	576.4	562.3
42.5°	614.9	620.9	614.9	576.4	545.9	505.9	487.3	498.5	599.3	643.1	624.6
45°	674.3	680.2	673.5	648.3	618.6	595.6	548.9	563.0	661.7	726.9	706.2
47.5°	718.8	726.2	714.3	709.1	685.4	681.7	602.3	617.9	726.9	811.5	785.5
50°	729.2	737.3	747.7	753.6	745.5	754.4	674.3	687.6	795.2	889.4	864.2
52.5°	704.7	712.8	735.8	763.3	801.1	827.8	747.0	758.1	866.4	953.9	940.6
55°	632.7	640.1	686.9	724.0	814.5	858.2	816.7	863.4	917.6	1021.4	988.8
57.5°	511.8	520.7	582.3	639.4	770.0	841.2	858.2	950.9	1002.1	1071.1	1033.3
60°	363.5	368.7	422.1	522.9	646.8	755.9	850.1	1016.2	1068.9	1137.9	1117.8
62.5°	209.2	213.6	269.3	364.2	488.1	631.2	813.7	1077.8	1140.8	1211.3	1200.2
65°	138.7	140.2	178.0	229.9	317.5	465.1	721.7	1132.7	1212.0	1269.9	1257.3
67.5°	91.2	99.4	129.1	164.7	203.2	257.4	588.2	1155.7	1293.6	1351.5	1348.5
70°	65.3	68.2	92.7	126.8	152.8	144.6	344.2	993.2	1289.9	1373.7	1349.3
72.5°	38.6	41.5	61.6	94.9	120.2	92.0	161.0	702.5	1068.9	1096.3	1089.7
75°	28.2	28.2	37.8	68.2	87.5	66.0	75.7	444.3	709.9	770.7	770.0
77.5°	20.0	20.8	26.0	40.8	67.5	48.2	41.5	247.0	387.9	424.3	404.3
80°	11.9	12.6	17.8	24.5	49.0	34.9	27.4	112.7	149.1	150.6	143.2
82.5°	8.9	8.9	11.9	17.1	34.1	23.7	17.1	43.0	48.2	43.8	37.1
85°	5.2	4.5	8.9	12.6	20.0	13.4	11.9	20.0	22.3	16.3	14.8
87.5°	1.5	1.5	3.7	4.5	8.9	7.4	5.2	7.4	10.4	5.9	4.5
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°	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2
2.5°	227.7	225.5	221.8	220.3	215.1	212.9	211.4	207.7	208.4	206.2	206.2
5°	225.5	225.5	218.1	209.9	201.8	196.6	190.6	183.2	183.2	180.2	181.0
7.5°	233.7	227.7	218.1	203.2	189.9	178.0	172.8	165.4	161.0	158.7	158.7
10°	238.8	232.9	216.6	198.8	181.7	166.9	155.8	145.4	139.5	139.5	138.7
12.5°	252.9	244.0	222.5	198.1	172.8	150.6	133.5	121.6	113.5	107.6	109.0
15°	264.8	255.2	225.5	192.1	157.3	126.1	105.3	83.1	72.0	66.0	63.8
17.5°	283.4	265.6	232.2	181.7	133.5	98.7	68.2	49.7	45.2	44.5	44.5
20°	298.9	278.2	232.9	161.7	109.8	63.0	43.8	40.8	38.6	37.8	37.1
22.5°	320.4	294.5	229.9	138.7	78.6	42.3	37.1	34.1	32.6	30.4	30.4
25°	342.7	316.0	224.0	117.2	48.2	36.3	32.6	29.7	26.7	25.2	26.0
27.5°	366.4	332.3	207.0	91.2	37.1	31.9	26.7	24.5	23.0	22.3	22.3
30°	385.7	342.7	181.7	60.8	33.4	28.2	23.7	21.5	20.0	19.3	19.3
32.5°	399.8	351.6	153.5	40.8	30.4	25.2	21.5	19.3	17.8	17.1	17.1
35°	423.5	358.3	127.6	34.9	27.4	22.3	18.5	17.1	15.6	15.6	15.6
37.5°	459.9	367.2	101.6	31.9	25.2	20.0	17.8	15.6	14.8	14.1	14.1
40°	491.8	378.3	72.7	28.9	23.0	18.5	15.6	14.1	13.4	12.6	12.6
42.5°	537.8	390.9	47.5	26.0	20.8	17.1	14.1	12.6	11.9	11.1	11.1
45°	596.4	411.7	37.1	23.0	18.5	15.6	13.4	11.9	10.4	10.4	9.6
47.5°	658.7	436.9	33.4	21.5	17.1	14.1	11.9	10.4	9.6	8.9	8.9
50°	716.5	461.4	31.2	20.0	15.6	13.4	11.1	9.6	8.2	7.4	7.4
52.5°	768.5	484.4	29.7	18.5	14.8	11.9	9.6	8.2	7.4	6.7	6.7
55°	795.9	494.8	28.9	17.8	13.4	11.1	8.9	7.4	6.7	5.9	5.9
57.5°	838.9	508.1	28.2	17.1	12.6	9.6	8.2	6.7	5.9	5.2	5.2
60°	908.7	551.9	27.4	16.3	11.9	9.6	7.4	5.9	4.5	3.7	3.7
62.5°	966.5	588.2	24.5	14.1	10.4	8.2	5.9	4.5	3.0	2.2	2.2
65°	1032.5	605.3	21.5	12.6	8.9	6.7	4.5	3.0	2.2	0.7	0.7
67.5°	1104.5	631.2	17.8	11.1	8.2	5.2	3.7	2.2	0.7	0.0	0.0
70°	1066.7	598.6	14.8	9.6	7.4	4.5	3.0	1.5	0.0	0.0	0.0
72.5°	836.0	428.7	11.9	8.9	6.7	4.5	3.0	0.7	0.0	0.0	0.0
75°	558.5	242.6	10.4	7.4	5.2	3.7	2.2	0.7	0.0	0.0	0.0
77.5°	303.4	109.0	8.9	6.7	4.5	3.0	2.2	0.7	0.0	0.0	0.0
80°	98.7	43.0	7.4	5.9	4.5	3.0	2.2	0.7	0.0	0.0	0.0
82.5°	26.7	13.4	7.4	5.9	4.5	3.0	2.2	0.7	0.0	0.0	0.0
85°	11.1	8.9	7.4	5.9	4.5	3.0	2.2	0.7	0.0	0.0	0.0
87.5°	4.5	3.0	3.0	3.7	3.0	2.2	1.5	0.7	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°	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2
2.5°	207.0	208.4	209.2	209.2	212.9	216.6	221.0	224.8	224.8	227.0	229.2
5°	181.7	183.2	185.4	192.1	199.5	207.7	215.9	221.8	229.9	233.7	235.9
7.5°	161.0	162.4	168.4	175.1	185.4	199.5	213.6	227.0	235.1	238.8	241.8
10°	139.5	141.7	148.4	160.2	173.6	190.6	207.0	229.9	243.3	250.7	253.7
12.5°	108.3	114.2	123.1	135.7	152.8	178.8	209.2	232.9	255.9	264.8	270.7
15°	68.2	73.4	87.5	107.6	130.6	161.0	203.2	237.4	269.3	278.2	287.8
17.5°	43.8	44.5	49.0	70.5	100.1	138.7	194.3	244.0	284.1	296.7	311.5
20°	37.1	38.6	39.3	42.3	66.8	114.2	175.8	252.2	301.9	319.0	333.1
22.5°	31.2	31.9	33.4	35.6	40.1	83.1	150.6	252.2	317.5	342.7	359.0
25°	25.2	26.7	28.2	30.4	34.9	51.9	124.6	247.7	336.0	367.2	387.9
27.5°	22.3	22.3	23.7	26.0	29.7	36.3	98.7	234.4	350.1	382.0	409.5
30°	19.3	20.0	20.8	23.0	26.7	31.9	68.2	212.9	364.9	410.9	442.1
32.5°	17.1	17.1	18.5	20.0	23.7	28.9	43.8	180.2	384.2	433.2	477.0
35°	15.6	15.6	16.3	17.8	21.5	26.0	34.1	152.8	407.2	475.5	523.7
37.5°	14.1	14.1	14.8	16.3	19.3	23.0	31.2	131.3	431.0	517.8	588.2
40°	12.6	12.6	13.4	14.8	17.1	20.8	28.2	106.1	460.6	580.1	658.7
42.5°	11.1	11.1	11.9	13.4	15.6	18.5	24.5	79.4	499.9	647.6	749.9
45°	9.6	9.6	10.4	11.9	13.4	17.1	22.3	60.8	543.0	722.5	830.0
47.5°	8.2	8.9	9.6	11.1	12.6	15.6	20.0	53.4	585.3	801.8	919.0
50°	7.4	7.4	8.2	9.6	11.9	14.1	18.5	52.7	628.3	862.7	1010.3
52.5°	6.7	6.7	7.4	8.9	11.1	13.4	17.8	54.1	663.9	919.0	1074.1
55°	5.9	5.9	6.7	7.4	9.6	12.6	16.3	55.6	689.1	976.2	1125.3
57.5°	5.2	5.2	5.9	7.4	8.9	11.1	14.8	57.1	729.9	1032.5	1199.4
60°	3.7	3.7	5.2	6.7	8.2	9.6	14.1	58.6	795.2	1110.4	1262.5
62.5°	2.2	2.2	3.0	5.2	6.7	8.9	12.6	55.6	856.0	1210.6	1358.9
65°	0.7	1.5	2.2	3.0	5.2	7.4	10.4	50.4	907.2	1310.7	1447.9
67.5°	0.0	0.0	0.7	2.2	4.5	5.9	8.9	37.1	915.3	1355.9	1539.2
70°	0.0	0.0	0.7	2.2	3.7	5.9	8.2	20.8	779.6	1211.3	1410.8
72.5°	0.0	0.0	0.0	1.5	3.7	5.2	7.4	15.6	574.9	913.1	1114.9
75°	0.0	0.0	0.0	0.7	3.0	4.5	6.7	11.9	349.4	609.0	727.7
77.5°	0.0	0.0	0.0	0.7	2.2	4.5	6.7	10.4	123.1	290.0	342.0
80°	0.0	0.0	0.0	1.5	3.0	4.5	5.9	8.9	29.7	72.7	97.9
82.5°	0.0	0.0	0.0	0.7	2.2	3.7	5.2	7.4	11.9	21.5	34.1
85°	0.0	0.0	0.0	0.7	1.5	3.7	5.2	6.7	8.2	10.4	14.8
87.5°	0.0	0.0	0.0	0.0	0.7	1.5	2.2	3.0	3.0	3.0	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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2
2.5°	228.5	231.4	232.9	235.9	237.4	236.6	235.9	238.1	236.6	234.4
5°	236.6	236.6	238.8	239.6	239.6	237.4	238.8	238.1	236.6	236.6
7.5°	245.5	249.2	249.2	244.8	244.0	242.6	242.6	236.6	234.4	236.6
10°	254.4	257.4	258.1	252.9	246.3	243.3	239.6	232.2	228.5	229.9
12.5°	273.0	273.0	264.8	258.9	250.0	239.6	230.7	220.3	215.1	216.6
15°	286.3	289.3	278.2	264.8	249.2	229.9	220.3	212.1	209.2	207.0
17.5°	312.3	306.3	288.5	269.3	247.0	227.0	220.3	212.9	210.7	210.7
20°	334.5	331.6	304.9	270.0	246.3	232.9	228.5	224.8	224.0	221.8
22.5°	364.9	351.6	317.5	278.2	254.4	242.6	241.1	244.8	242.6	241.1
25°	387.9	376.8	327.1	290.0	267.0	263.3	265.6	269.3	263.3	261.1
27.5°	419.1	398.3	345.7	305.6	284.1	287.8	295.2	296.0	292.3	294.5
30°	448.0	425.8	359.8	323.4	313.0	316.7	327.9	336.0	330.8	327.9
32.5°	489.6	455.4	387.9	353.1	349.4	359.0	371.6	376.8	370.1	368.7
35°	533.3	489.6	416.9	386.5	393.1	406.5	417.6	426.5	416.1	420.6
37.5°	601.6	544.5	465.8	439.1	442.1	447.3	468.1	492.5	497.7	488.8
40°	672.8	603.8	511.1	490.3	497.0	511.1	535.6	558.5	570.4	558.5
42.5°	755.1	660.9	580.8	556.3	563.0	583.0	615.7	634.2	632.7	614.9
45°	856.7	740.3	646.1	615.7	640.1	657.9	690.6	692.8	678.7	674.3
47.5°	934.6	807.0	716.5	697.3	730.6	731.4	738.8	739.5	724.0	718.8
50°	1020.7	884.2	795.2	767.0	823.4	797.4	777.4	764.0	740.3	729.2
52.5°	1105.2	939.1	867.9	838.9	897.5	828.5	792.2	751.4	716.5	704.7
55°	1150.5	1029.6	973.9	906.4	913.9	837.5	746.2	695.0	635.7	632.7
57.5°	1203.9	1090.4	1063.7	952.4	886.4	775.1	650.5	583.0	519.2	511.8
60°	1266.9	1186.8	1158.6	945.0	789.2	651.3	515.5	428.7	368.7	363.5
62.5°	1337.4	1301.1	1217.2	872.3	626.8	458.4	340.5	267.8	212.1	209.2
65°	1448.7	1396.7	1248.4	734.3	414.6	293.7	226.2	173.6	140.2	138.7
67.5°	1518.4	1433.1	1178.7	523.7	229.9	194.3	158.7	126.1	97.2	91.2
70°	1419.7	1315.1	932.4	299.7	133.5	147.6	122.4	84.6	66.8	65.3
72.5°	1134.2	976.2	627.5	140.9	83.1	115.7	89.0	57.1	40.1	38.6
75°	773.7	614.2	393.9	65.3	58.6	84.6	65.3	33.4	28.2	28.2
77.5°	345.7	313.0	201.8	40.1	43.8	64.5	37.8	23.0	20.8	20.0
80°	105.3	110.5	82.3	27.4	32.6	49.0	23.0	15.6	12.6	11.9
82.5°	35.6	41.5	37.1	16.3	22.3	34.9	15.6	10.4	8.9	8.9
85°	17.1	20.8	18.5	10.4	11.9	17.1	12.6	8.2	5.2	5.2
87.5°	6.7	9.6	6.7	4.5	6.7	8.9	5.2	3.7	1.5	1.5
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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