

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: P677503

Luminaire Tested: **CCW-SA-1A-850-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677503
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-850-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

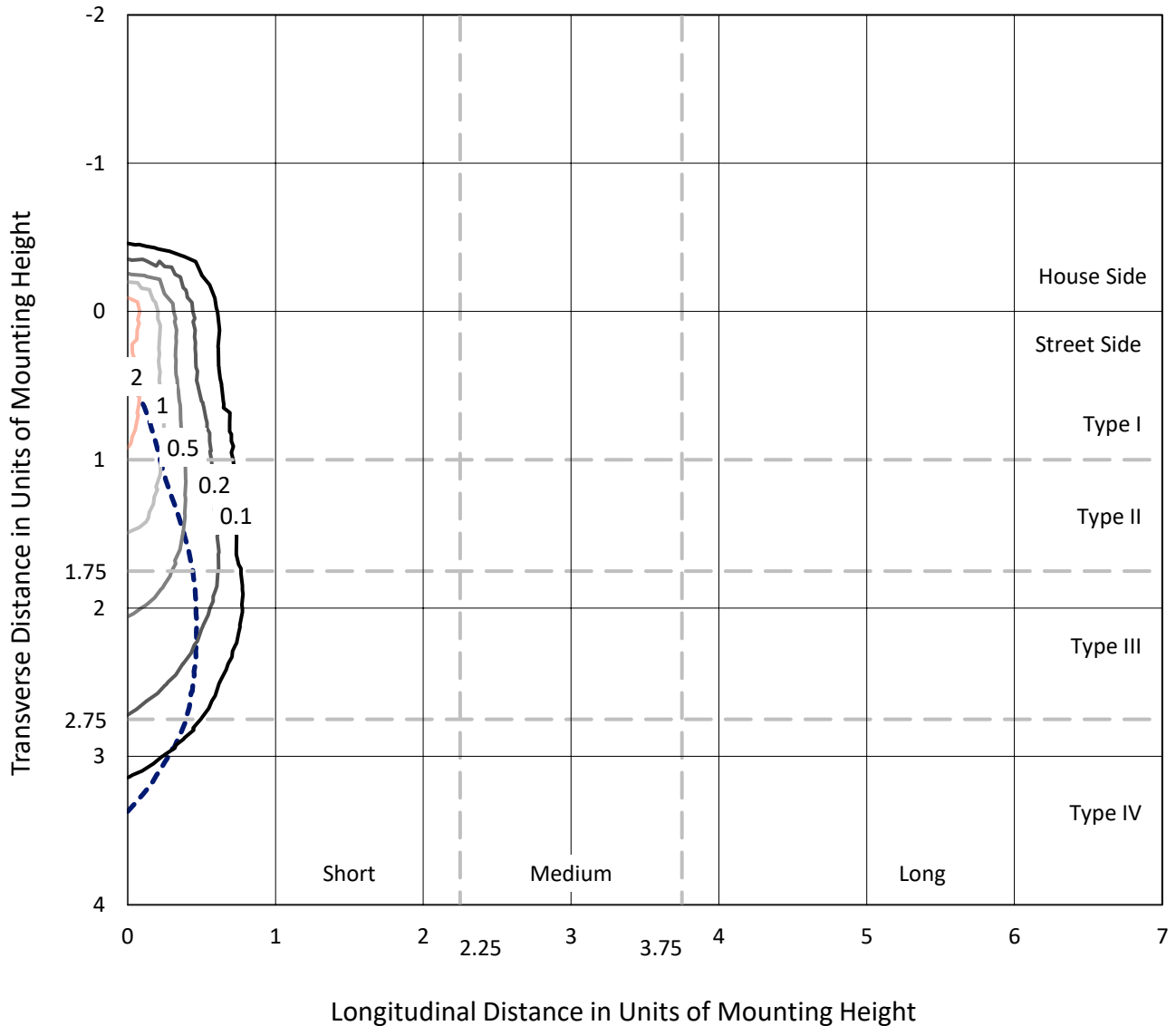
Lumens per Lamp: N/A
Luminaire Lumens: 1715.6 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

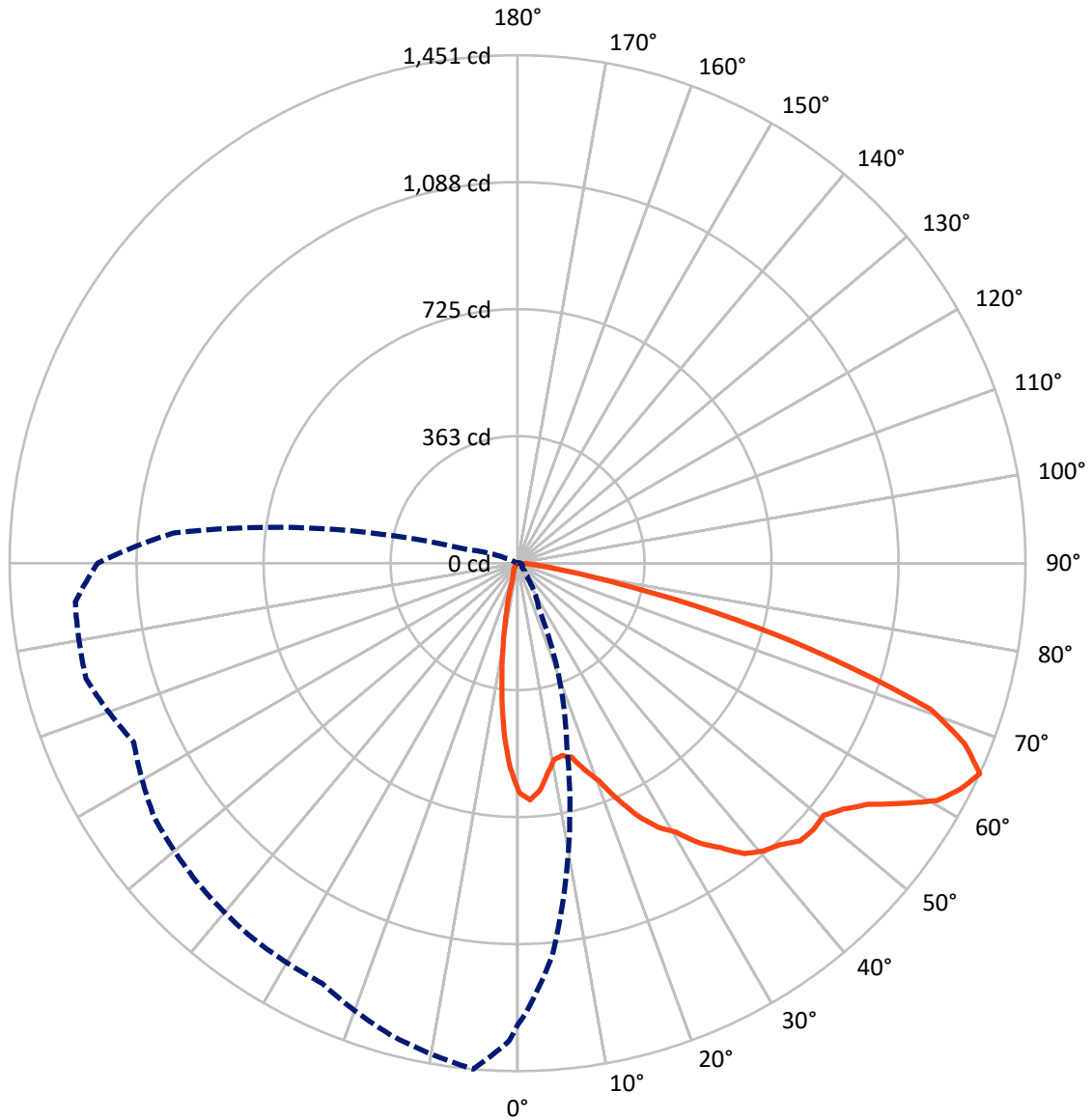
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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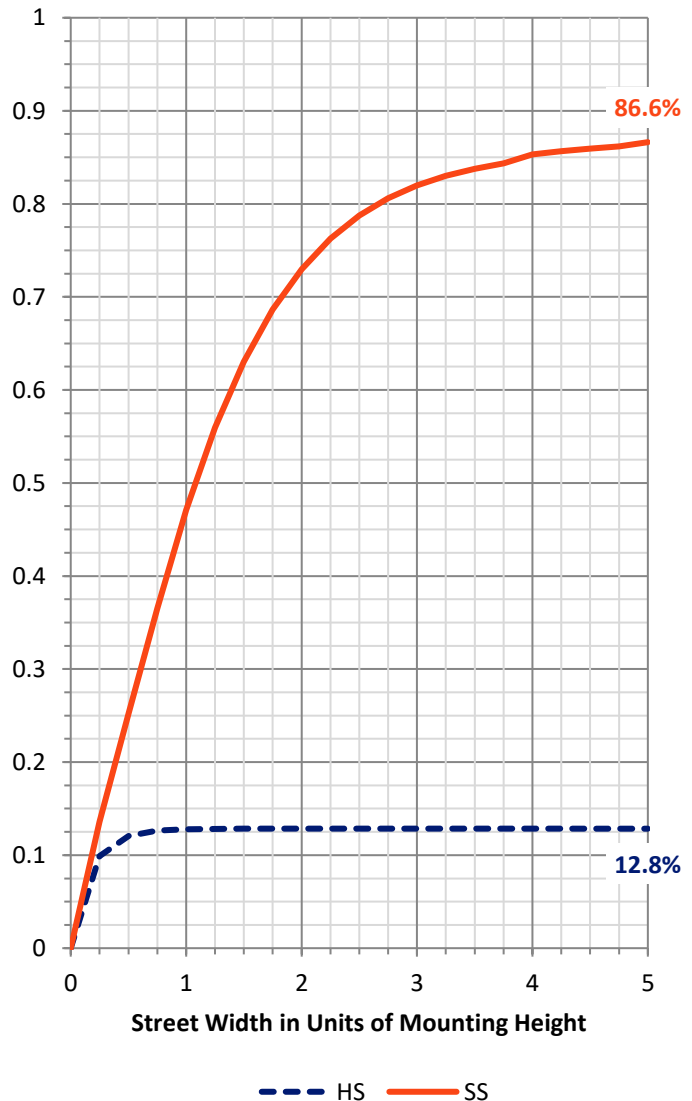
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	222.8	0.0	222.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1492.8	0.0	1492.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	1715.6	0.0	1715.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	2.9
10°-20°	96.2	5.6
20°-30°	134.0	7.8
30°-40°	190.4	11.1
40°-50°	264.0	15.4
50°-60°	359.7	21.0
60°-70°	395.5	23.1
70°-80°	194.4	11.3
80°-90°	31.7	1.9
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°	1715.6	100.0
0°-180°	1715.6	100.0



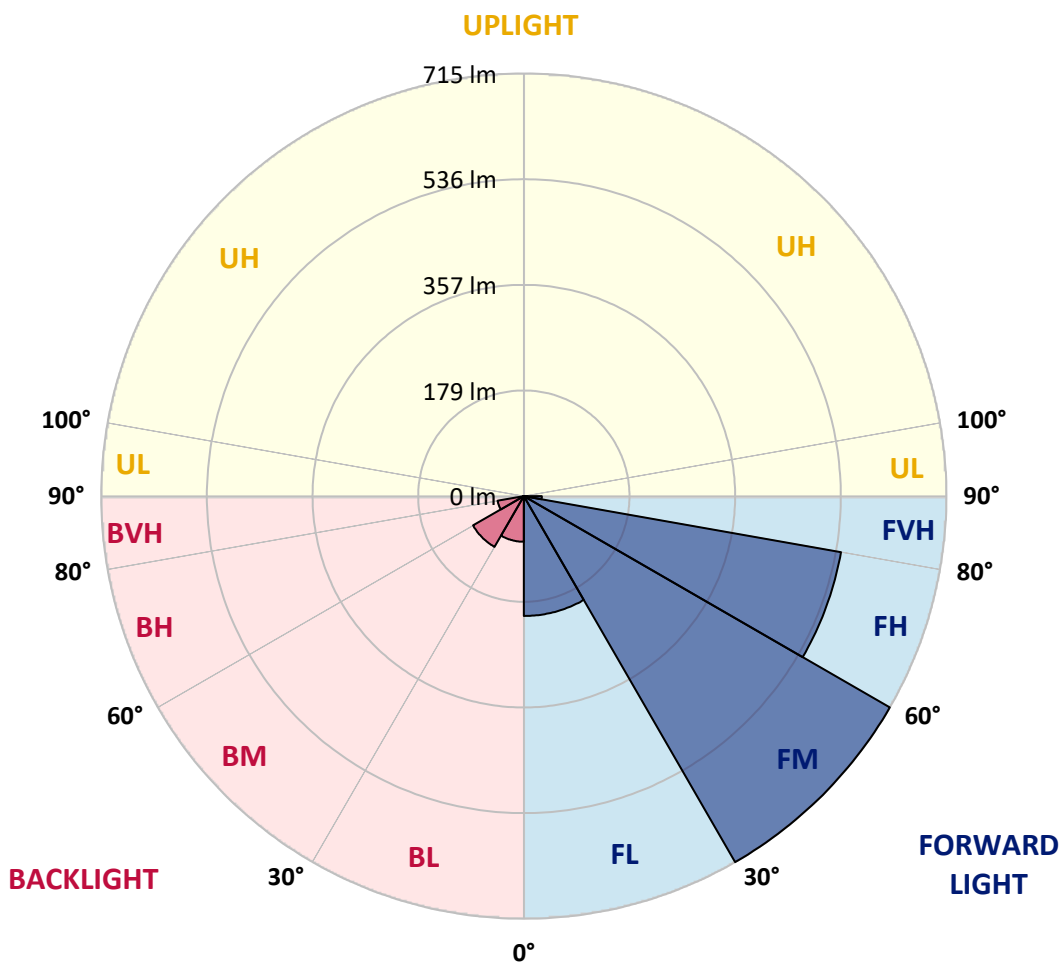
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.7	11.8			
FM (30°-60°)	714.9	41.7			
FH (60°-80°)	544.8	31.8			G0/660
FVH (80°-90°)	30.3	1.8			G1/100
BL (0°-30°)	77.1	4.5	B0/110		
BM (30°-60°)	99.2	5.8	B0/220		
BH (60°-80°)	45.0	2.6	B0/110		G0/110
BVH (80°-90°)	1.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9
2.5°	669.3	677.1	669.7	643.8	639.2	626.7	607.8	606.4	586.5	588.8	578.2
5°	629.0	636.9	621.2	586.9	555.0	529.6	514.3	487.0	481.0	467.6	467.6
7.5°	587.9	587.4	560.6	531.9	484.3	437.5	416.3	377.0	353.8	341.3	329.3
10°	553.6	546.2	529.6	470.4	418.6	370.0	343.7	317.8	293.7	272.9	252.1
12.5°	529.6	534.2	507.9	443.6	376.5	342.7	314.5	287.2	258.6	235.0	211.8
15°	542.1	534.7	503.7	437.5	369.6	323.3	285.8	252.5	220.6	189.6	172.1
17.5°	580.9	562.0	525.4	437.5	355.2	293.7	248.4	209.1	174.8	147.1	125.3
20°	633.2	611.5	572.1	453.7	344.6	272.0	210.0	160.5	124.9	99.0	82.3
22.5°	686.9	669.7	610.5	460.2	332.1	242.8	165.6	116.1	83.3	66.6	58.3
25°	751.1	727.1	662.3	486.1	313.6	214.6	130.4	80.9	62.0	53.2	48.1
27.5°	802.5	798.3	710.9	501.8	299.7	191.5	103.1	64.3	51.3	44.9	41.6
30°	867.2	844.6	770.1	533.3	284.0	165.1	86.0	57.8	47.2	40.2	37.9
32.5°	906.1	895.4	801.1	550.9	266.4	143.4	74.0	50.9	43.0	37.9	35.6
35°	962.5	941.2	845.5	562.0	257.2	130.9	66.6	46.3	36.1	31.0	28.2
37.5°	1025.4	1017.6	898.7	561.5	243.8	123.5	61.5	43.0	34.2	28.7	25.4
40°	1089.7	1057.8	931.1	574.5	236.8	117.9	57.8	41.2	32.4	27.3	23.1
42.5°	1137.8	1101.3	968.5	569.8	228.5	108.2	56.4	38.4	31.0	25.0	21.3
45°	1150.8	1137.8	1002.3	568.4	222.5	100.4	54.1	37.9	30.1	23.6	19.9
47.5°	1175.7	1167.0	1043.9	570.8	217.8	94.4	48.6	38.9	28.7	22.2	19.0
50°	1186.8	1171.1	1077.7	576.3	207.2	87.0	43.5	40.7	28.2	21.7	18.0
52.5°	1232.6	1218.8	1123.9	592.0	198.4	77.2	38.4	38.9	29.1	20.4	17.1
55°	1277.5	1261.8	1195.2	628.1	185.9	69.4	32.8	34.2	27.8	18.5	15.3
57.5°	1339.0	1313.1	1242.8	642.9	174.8	58.7	29.1	28.2	25.9	16.7	13.4
60°	1348.3	1358.9	1235.9	633.7	163.3	51.8	25.4	21.7	27.8	14.8	11.6
62.5°	1379.3	1334.8	1203.5	612.4	154.9	47.6	22.7	18.0	24.1	13.0	9.7
65°	1319.6	1286.7	1127.6	543.9	144.3	48.1	19.9	14.8	15.3	10.6	7.9
67.5°	1232.2	1206.3	1001.8	469.5	133.7	47.2	17.6	13.0	11.6	9.3	6.9
70°	1081.4	1025.4	851.0	381.1	117.9	43.9	14.8	11.6	9.7	7.4	5.1
72.5°	786.8	764.1	610.5	294.6	105.9	39.8	13.9	9.7	8.3	5.6	4.2
75°	529.6	492.1	385.3	193.3	85.1	34.7	11.6	8.8	6.5	4.2	3.2
77.5°	279.8	264.6	218.3	92.0	47.2	16.2	6.5	5.1	3.7	3.2	1.9
80°	121.2	107.8	94.4	37.5	16.7	7.4	4.2	2.8	2.3	1.9	0.9
82.5°	62.0	59.2	49.0	16.2	9.7	5.6	2.3	1.9	1.4	0.9	0.5
85°	30.5	31.5	25.9	5.1	5.6	3.2	0.5	0.5	0.0	0.0	0.0
87.5°	2.3	2.3	1.9	0.9	1.4	0.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9
2.5°	574.0	580.5	569.4	576.3	573.1	574.5	575.8	572.1	573.1	586.0	586.5
5°	459.8	472.2	467.6	474.1	485.2	479.6	484.7	483.8	484.7	486.6	494.9
7.5°	327.9	324.2	333.0	350.1	370.0	382.0	376.0	372.8	370.9	366.3	371.9
10°	247.5	245.6	243.3	248.4	261.3	274.7	282.1	269.7	262.7	253.9	250.7
12.5°	205.4	193.8	187.3	179.5	183.2	195.2	195.6	183.6	172.5	167.9	173.0
15°	161.9	154.0	142.5	131.4	125.8	135.1	127.2	115.6	101.3	99.4	99.0
17.5°	115.6	111.0	102.7	98.1	91.6	89.3	80.9	63.4	53.2	50.4	51.3
20°	78.6	74.9	74.5	70.3	67.5	65.7	52.3	40.7	37.5	37.9	38.4
22.5°	58.3	56.4	54.1	53.7	51.3	49.0	38.4	34.2	31.9	31.9	33.3
25°	47.6	46.7	44.4	43.5	42.6	39.3	32.4	29.1	28.2	27.3	28.7
27.5°	40.7	40.2	38.9	37.5	36.5	33.3	28.2	25.4	24.5	24.5	24.5
30°	36.5	36.5	34.7	31.9	31.9	28.2	24.1	22.2	21.3	21.3	20.8
32.5°	34.2	33.3	31.0	29.1	27.8	24.1	21.3	19.4	18.0	18.0	18.5
35°	27.8	27.8	27.3	25.9	24.1	20.4	18.0	16.2	15.3	14.8	15.3
37.5°	24.5	23.1	21.3	21.7	20.8	17.6	15.3	13.9	12.5	12.5	12.5
40°	22.2	20.8	19.0	17.6	17.1	15.7	13.4	11.1	9.7	9.3	9.3
42.5°	19.9	19.0	16.2	13.9	13.4	13.4	10.2	8.3	6.9	6.9	6.9
45°	18.5	17.1	14.8	12.0	9.7	10.2	8.3	6.0	5.1	4.6	4.6
47.5°	17.6	16.2	13.0	10.2	7.4	7.4	6.0	4.2	3.2	2.8	2.8
50°	16.2	14.8	11.6	8.3	5.6	4.6	3.7	2.3	1.4	0.9	0.9
52.5°	15.3	13.9	10.2	6.9	4.6	3.2	2.3	0.5	0.0	0.0	0.0
55°	13.9	12.0	8.8	5.6	3.7	1.9	0.5	0.0	0.0	0.0	0.0
57.5°	12.0	10.6	6.9	4.2	2.3	0.5	0.0	0.0	0.0	0.0	0.0
60°	10.2	8.8	5.6	3.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8.3	7.4	4.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6.9	5.6	3.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4.6	3.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.2	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9
2.5°	588.3	602.2	615.2	618.9	629.0	657.2	657.2	670.7	694.7	703.5	705.4
5°	496.3	511.1	513.9	542.5	556.0	584.6	603.6	648.9	676.2	693.3	704.0
7.5°	377.4	382.5	393.1	420.0	446.3	481.0	517.1	574.9	623.0	642.4	678.5
10°	259.5	274.7	297.9	321.9	363.1	401.5	448.2	502.8	562.0	586.0	617.0
12.5°	174.8	196.1	233.1	267.3	305.3	344.1	388.5	461.6	528.7	562.0	593.0
15°	102.2	128.1	160.0	215.5	266.0	309.4	353.8	427.8	509.2	552.3	590.2
17.5°	51.8	59.7	86.0	134.1	200.7	272.0	338.1	432.5	524.0	576.8	608.2
20°	38.9	41.2	48.6	71.2	137.4	224.8	323.3	439.4	565.2	629.5	646.6
22.5°	33.8	35.6	38.9	46.3	77.2	172.1	302.5	456.5	621.2	681.8	717.8
25°	28.7	30.5	33.3	37.9	49.5	117.0	277.1	474.6	671.1	747.4	781.2
27.5°	25.0	26.4	29.1	32.8	40.2	74.5	233.1	498.6	747.4	827.0	835.8
30°	21.3	22.7	25.0	29.1	34.2	52.7	171.1	501.8	789.5	861.7	886.2
32.5°	18.5	19.0	21.7	25.4	28.7	41.6	120.3	505.1	820.5	906.5	911.6
35°	15.3	16.2	19.0	21.3	25.0	32.8	91.1	488.9	860.8	952.8	951.4
37.5°	12.5	13.9	15.7	17.6	20.4	27.8	72.6	458.8	911.2	1024.5	981.0
40°	9.7	11.1	13.0	15.3	17.1	25.0	54.6	413.5	963.9	1059.6	1013.4
42.5°	6.9	7.9	9.7	12.0	15.3	20.8	39.3	359.8	984.7	1100.8	1052.2
45°	5.1	6.0	7.4	10.2	15.7	16.7	27.3	310.8	1006.9	1118.8	1043.5
47.5°	2.8	3.7	5.6	8.8	13.9	12.5	19.4	266.9	1032.4	1135.0	1050.4
50°	0.9	1.4	3.2	9.3	11.1	9.7	15.3	243.3	1057.3	1138.3	1064.3
52.5°	0.0	0.0	1.9	9.7	8.3	7.4	13.4	234.0	1050.9	1148.5	1055.5
55°	0.0	0.0	0.5	4.2	4.6	5.6	11.1	233.6	1096.6	1151.7	1103.6
57.5°	0.0	0.0	0.0	1.4	2.8	4.6	9.7	218.8	1125.8	1232.2	1168.3
60°	0.0	0.0	0.0	0.5	1.9	3.2	7.4	205.8	1155.4	1268.2	1237.7
62.5°	0.0	0.0	0.0	0.0	0.5	1.4	5.1	185.9	1095.7	1265.5	1304.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	147.1	985.6	1199.3	1267.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	101.8	863.1	1116.1	1199.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.5	696.6	978.7	1017.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	497.2	777.0	834.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	307.6	568.0	639.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	199.3	430.1	485.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	106.4	269.7	313.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.3	163.7	188.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	99.4	113.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	20.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9
2.5°	706.3	719.7	724.8	716.9	717.8	701.7	699.3	676.7	667.4	669.3
5°	738.7	758.1	768.7	759.9	740.0	709.1	680.8	654.0	637.4	629.0
7.5°	731.3	753.0	766.4	774.7	752.1	702.1	659.1	608.7	587.4	587.9
10°	690.6	735.9	763.2	752.5	741.9	691.9	625.3	570.8	551.8	553.6
12.5°	657.7	708.1	724.3	732.6	710.9	671.1	626.3	563.8	542.5	529.6
15°	637.4	674.8	675.7	688.7	679.9	679.9	636.0	574.9	556.4	542.1
17.5°	637.4	645.7	644.8	649.4	664.2	681.8	660.5	619.8	583.2	580.9
20°	651.7	625.8	619.8	621.6	634.1	686.4	714.6	663.7	640.6	633.2
22.5°	685.0	628.1	591.6	585.1	623.5	685.9	749.3	733.1	692.9	686.9
25°	730.8	623.9	584.2	575.8	605.0	702.6	796.9	800.2	763.6	751.1
27.5°	774.3	642.4	583.2	581.4	619.8	698.9	829.8	853.8	812.7	802.5
30°	789.1	660.9	600.4	575.8	625.3	712.3	828.8	891.7	864.9	867.2
32.5°	806.6	679.4	602.2	592.5	648.9	734.0	855.2	952.8	933.4	906.1
35°	832.5	704.4	619.8	611.0	665.6	753.5	860.8	997.7	994.4	962.5
37.5°	854.7	728.9	656.3	657.7	716.5	784.9	885.3	1052.7	1047.2	1025.4
40°	870.5	763.2	713.2	716.9	760.9	820.1	928.8	1080.5	1121.6	1089.7
42.5°	872.8	793.7	778.4	808.0	849.2	874.6	946.3	1099.4	1158.6	1137.8
45°	881.6	842.3	884.8	906.5	940.3	922.7	945.4	1131.8	1161.4	1150.8
47.5°	915.8	930.6	984.3	1050.4	1062.4	1004.6	967.6	1136.9	1177.1	1175.7
50°	951.4	1025.4	1100.8	1144.8	1160.0	1061.0	988.4	1132.7	1197.9	1186.8
52.5°	991.2	1107.7	1216.4	1270.6	1262.2	1123.5	1012.0	1166.5	1236.3	1232.6
55°	1016.2	1144.8	1290.9	1366.3	1359.8	1193.3	1086.9	1215.1	1286.7	1277.5
57.5°	1082.3	1204.9	1364.9	1400.1	1417.2	1284.9	1139.2	1294.6	1328.8	1339.0
60°	1136.9	1244.2	1384.3	1435.2	1441.2	1339.5	1230.8	1376.5	1382.5	1348.3
62.5°	1216.9	1259.5	1343.2	1389.0	1420.0	1370.5	1313.1	1420.4	1381.6	1379.3
65°	1275.6	1209.5	1266.4	1291.8	1311.7	1323.3	1395.9	1450.5	1364.5	1319.6
67.5°	1242.8	1115.1	1104.5	1105.9	1111.9	1181.8	1368.2	1376.9	1269.2	1232.2
70°	1093.9	914.9	900.5	911.6	881.6	965.8	1255.8	1251.6	1119.8	1081.4
72.5°	884.8	667.0	642.4	657.7	664.6	753.9	1056.4	949.1	816.8	786.8
75°	703.0	488.9	412.6	449.6	473.2	549.0	825.1	644.8	570.3	529.6
77.5°	552.3	370.0	321.0	306.2	327.9	399.2	600.4	338.6	298.8	279.8
80°	350.1	272.0	295.1	273.8	283.1	284.9	312.7	154.0	122.6	121.2
82.5°	210.9	185.9	221.1	121.6	221.5	198.0	130.0	69.8	62.0	62.0
85°	149.4	115.2	76.3	49.5	98.5	108.7	50.4	36.1	31.5	30.5
87.5°	74.9	35.6	17.1	11.1	12.5	20.4	6.0	2.8	2.8	2.3
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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