

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: P677460

Luminaire Tested: **CCW-SA-1B-827-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677460  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-827-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1824.4 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

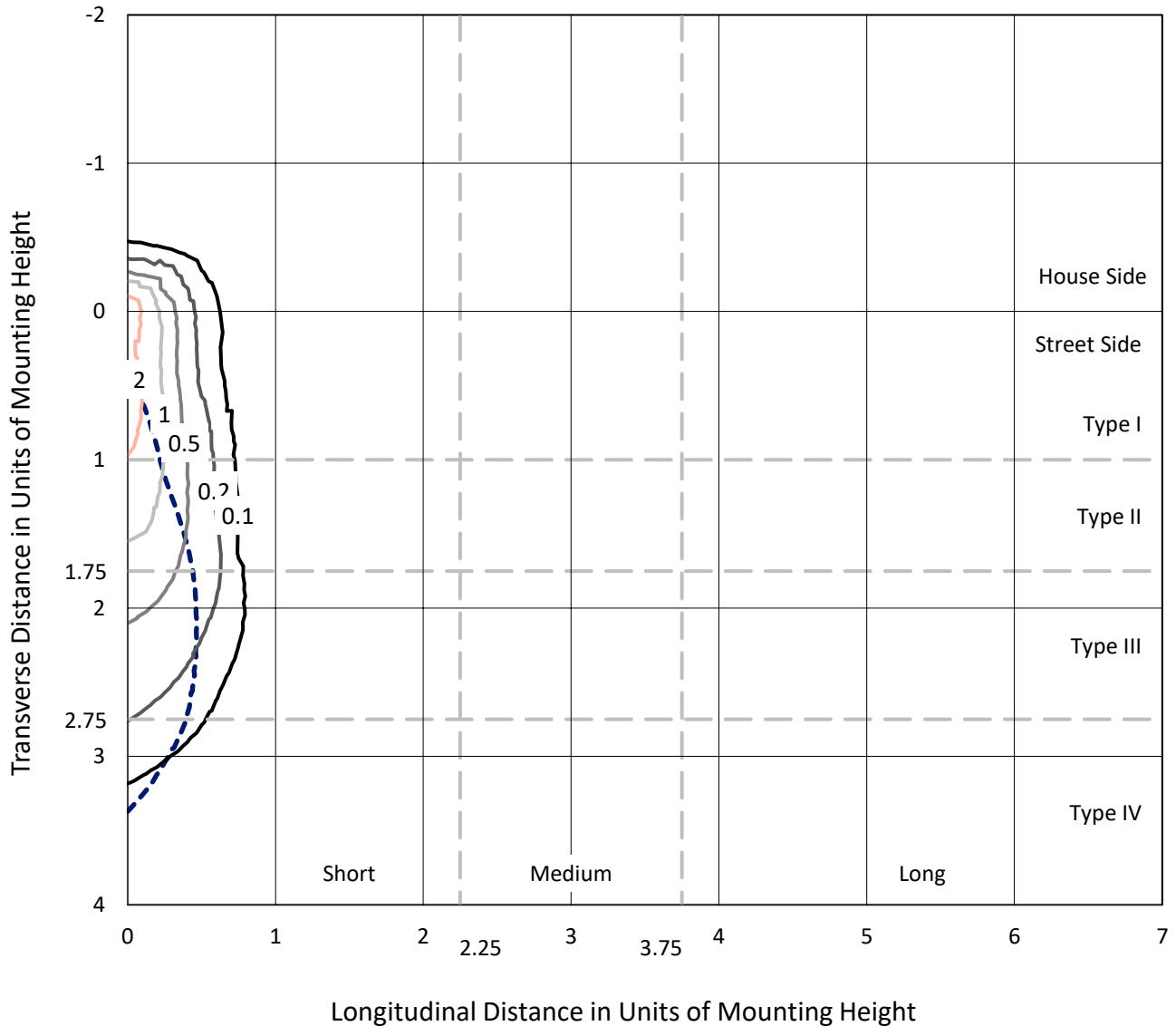
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

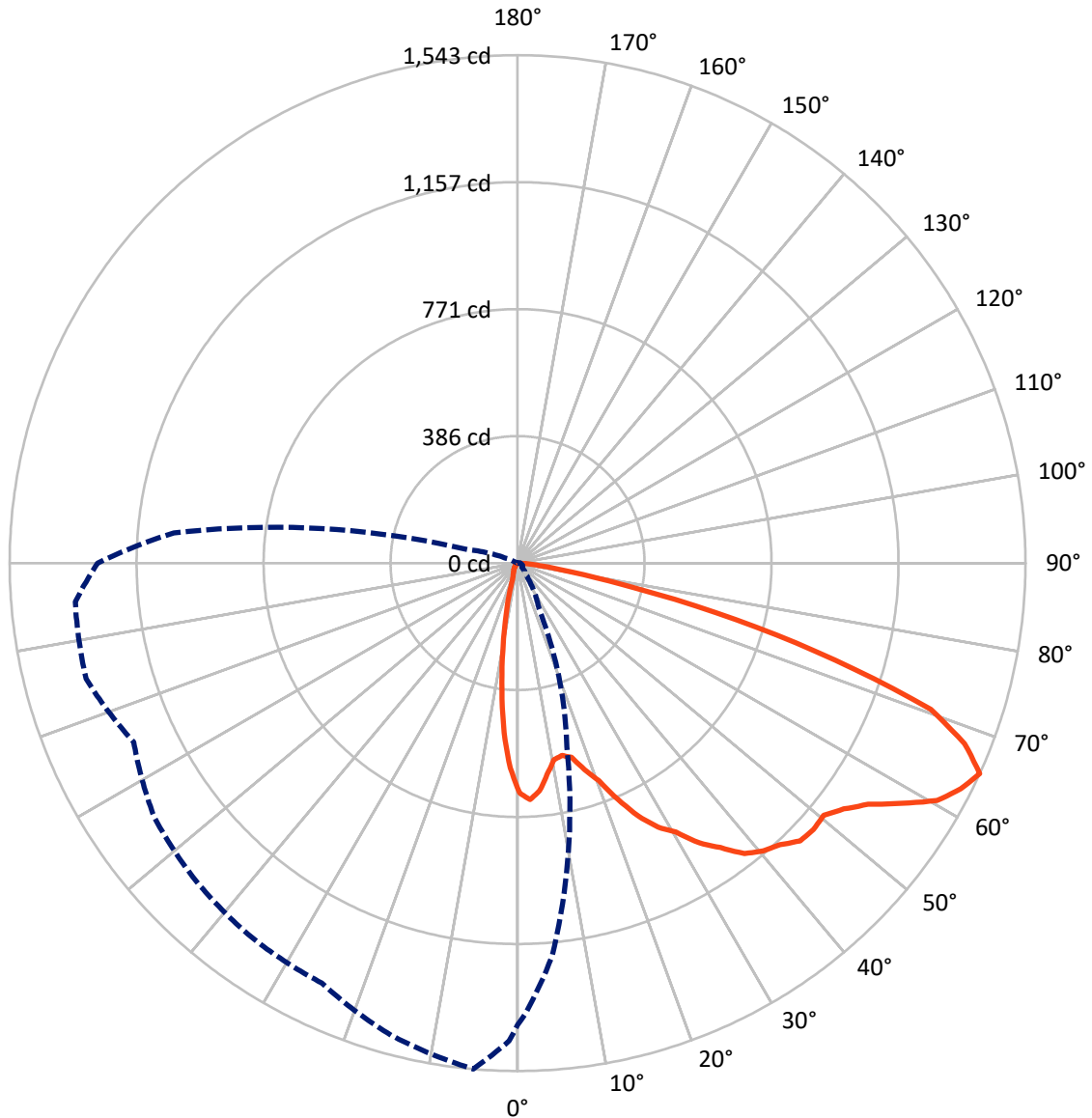
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 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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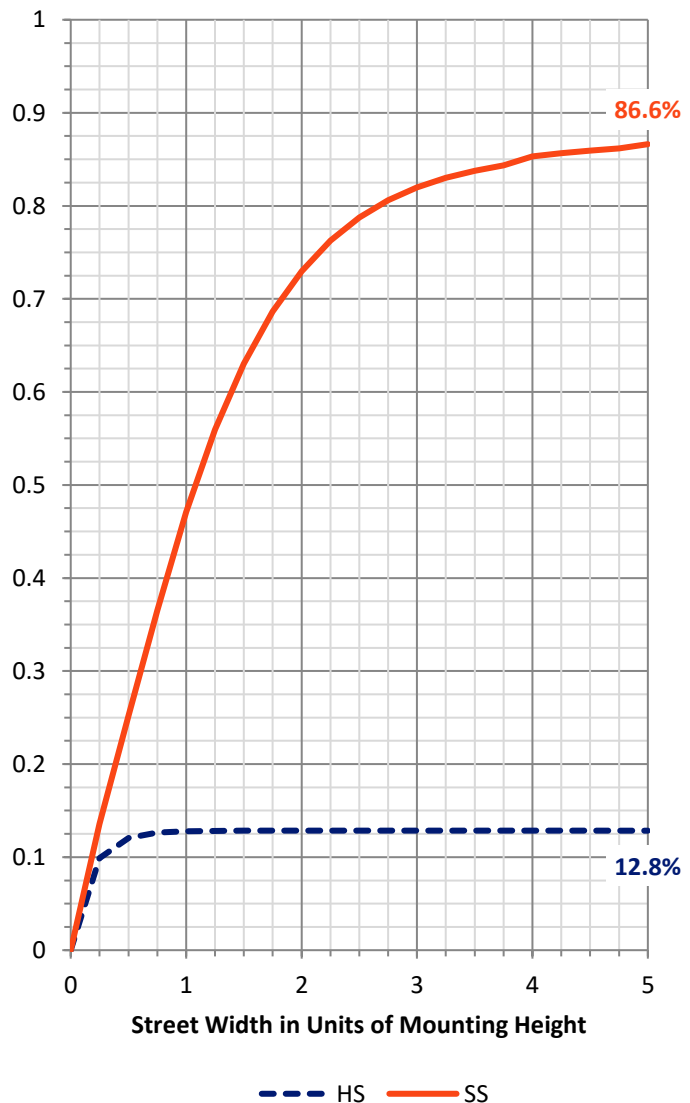
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	236.9	0.0	236.9
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	1587.5	0.0	1587.5
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	1824.4	0.0	1824.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.8	2.9
10°-20°	102.3	5.6
20°-30°	142.5	7.8
30°-40°	202.5	11.1
40°-50°	280.8	15.4
50°-60°	382.5	21.0
60°-70°	420.6	23.1
70°-80°	206.7	11.3
80°-90°	33.8	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°	1824.4	100.0
0°-180°	1824.4	100.0



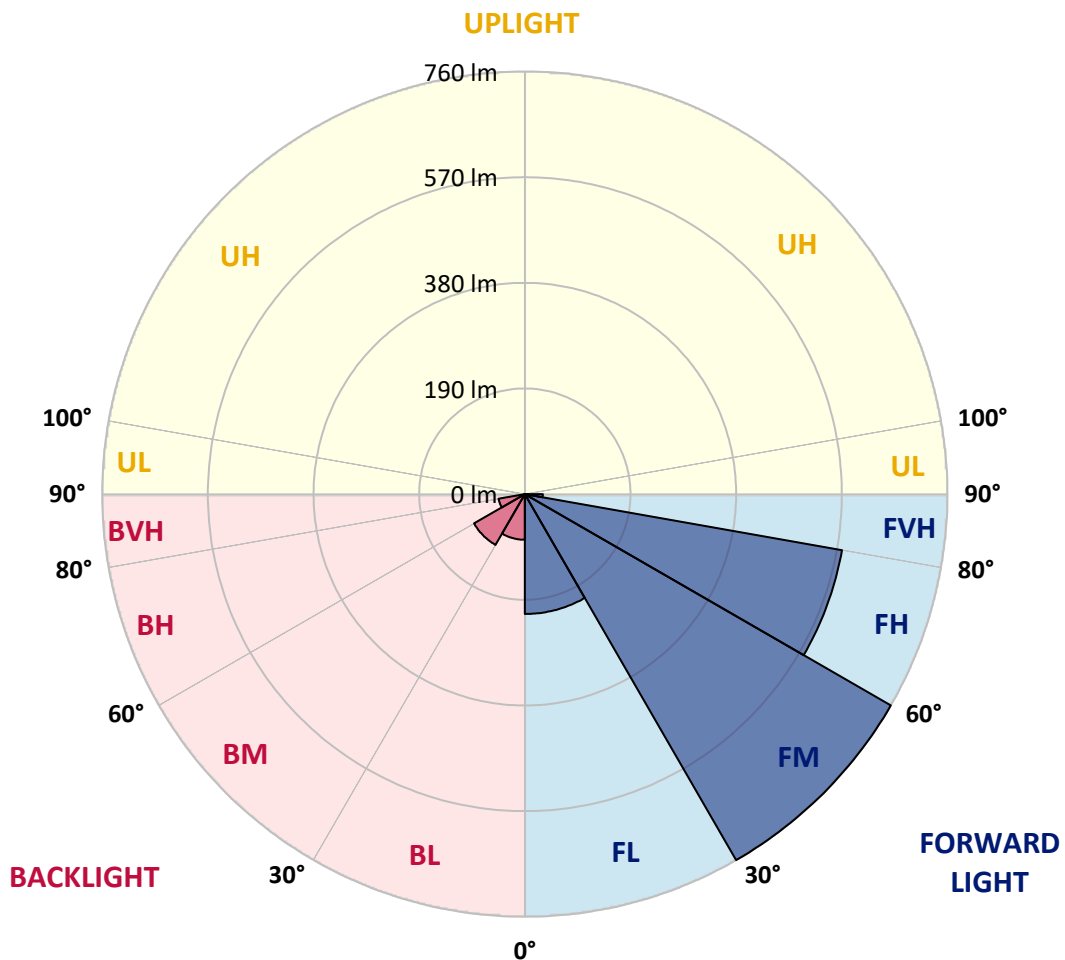
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.6	11.8			
FM (30°-60°)	760.3	41.7			
FH (60°-80°)	579.4	31.8			G0/660
FVH (80°-90°)	32.2	1.8			G1/100
BL (0°-30°)	82.0	4.5	B0/110		
BM (30°-60°)	105.5	5.8	B0/220		
BH (60°-80°)	47.9	2.6	B0/110		G0/110
BVH (80°-90°)	1.5	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°	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5
2.5°	711.7	720.1	712.2	684.7	679.8	666.5	646.3	644.8	623.7	626.2	614.8
5°	668.9	677.3	660.6	624.2	590.2	563.2	547.0	517.9	511.5	497.3	497.3
7.5°	625.2	624.7	596.1	565.7	515.0	465.3	442.7	400.9	376.3	363.0	350.2
10°	588.8	580.9	563.2	500.2	445.1	393.5	365.5	337.9	312.3	290.2	268.1
12.5°	563.2	568.1	540.1	471.7	400.4	364.5	334.5	305.5	275.0	249.9	225.3
15°	576.5	568.6	535.6	465.3	393.0	343.8	304.0	268.6	234.6	201.7	183.0
17.5°	617.8	597.6	558.8	465.3	377.8	312.3	264.1	222.3	185.9	156.4	133.3
20°	673.4	650.3	608.4	482.5	366.4	289.2	223.3	170.7	132.8	105.3	87.6
22.5°	730.4	712.2	649.3	489.4	353.2	258.2	176.1	123.5	88.5	70.8	62.0
25°	798.8	773.2	704.4	517.0	333.5	228.2	138.7	86.1	65.9	56.6	51.2
27.5°	853.4	849.0	756.0	533.7	318.7	203.6	109.7	68.4	54.6	47.7	44.3
30°	922.3	898.2	819.0	567.1	302.0	175.6	91.5	61.5	50.2	42.8	40.3
32.5°	963.6	952.3	851.9	585.8	283.3	152.5	78.7	54.1	45.7	40.3	37.9
35°	1023.6	1001.0	899.1	597.6	273.5	139.2	70.8	49.2	38.4	33.0	30.0
37.5°	1090.5	1082.1	955.7	597.1	259.2	131.3	65.4	45.7	36.4	30.5	27.1
40°	1158.9	1124.9	990.1	610.9	251.8	125.4	61.5	43.8	34.4	29.0	24.6
42.5°	1210.0	1171.1	1030.0	606.0	243.0	115.1	60.0	40.8	33.0	26.6	22.6
45°	1223.8	1210.0	1065.9	604.5	236.6	106.7	57.5	40.3	32.0	25.1	21.2
47.5°	1250.3	1241.0	1110.2	607.0	231.7	100.3	51.6	41.3	30.5	23.6	20.2
50°	1262.1	1245.4	1146.1	612.9	220.4	92.5	46.2	43.3	30.0	23.1	19.2
52.5°	1310.8	1296.1	1195.3	629.6	211.0	82.1	40.8	41.3	31.0	21.6	18.2
55°	1358.6	1341.8	1271.0	668.0	197.7	73.8	34.9	36.4	29.5	19.7	16.2
57.5°	1424.0	1396.4	1321.7	683.7	185.9	62.5	31.0	30.0	27.5	17.7	14.3
60°	1433.8	1445.1	1314.3	673.9	173.6	55.1	27.1	23.1	29.5	15.7	12.3
62.5°	1466.8	1419.5	1279.9	651.2	164.8	50.7	24.1	19.2	25.6	13.8	10.3
65°	1403.3	1368.4	1199.2	578.4	153.5	51.2	21.2	15.7	16.2	11.3	8.4
67.5°	1310.3	1282.8	1065.4	499.3	142.2	50.2	18.7	13.8	12.3	9.8	7.4
70°	1150.0	1090.5	905.0	405.3	125.4	46.7	15.7	12.3	10.3	7.9	5.4
72.5°	836.7	812.6	649.3	313.3	112.6	42.3	14.8	10.3	8.9	5.9	4.4
75°	563.2	523.4	409.7	205.6	90.5	36.9	12.3	9.3	6.9	4.4	3.4
77.5°	297.6	281.4	232.2	97.9	50.2	17.2	6.9	5.4	3.9	3.4	2.0
80°	128.9	114.6	100.3	39.8	17.7	7.9	4.4	3.0	2.5	2.0	1.0
82.5°	65.9	63.0	52.1	17.2	10.3	5.9	2.5	2.0	1.5	1.0	0.5
85°	32.5	33.4	27.5	5.4	5.9	3.4	0.5	0.5	0.0	0.0	0.0
87.5°	2.5	2.5	2.0	1.0	1.5	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°	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5
2.5°	610.4	617.3	605.5	612.9	609.4	610.9	612.4	608.4	609.4	623.2	623.7
5°	488.9	502.2	497.3	504.2	516.0	510.1	515.5	514.5	515.5	517.4	526.3
7.5°	348.7	344.8	354.1	372.3	393.5	406.3	399.9	396.4	394.5	389.6	395.5
10°	263.2	261.2	258.7	264.1	277.9	292.2	300.0	286.8	279.4	270.0	266.6
12.5°	218.4	206.1	199.2	190.8	194.8	207.6	208.1	195.3	183.5	178.5	184.0
15°	172.2	163.8	151.5	139.7	133.8	143.6	135.3	123.0	107.7	105.8	105.3
17.5°	123.0	118.0	109.2	104.3	97.4	94.9	86.1	67.4	56.6	53.6	54.6
20°	83.6	79.7	79.2	74.8	71.8	69.8	55.6	43.3	39.8	40.3	40.8
22.5°	62.0	60.0	57.5	57.1	54.6	52.1	40.8	36.4	33.9	33.9	35.4
25°	50.7	49.7	47.2	46.2	45.3	41.8	34.4	31.0	30.0	29.0	30.5
27.5°	43.3	42.8	41.3	39.8	38.9	35.4	30.0	27.1	26.1	26.1	26.1
30°	38.9	38.9	36.9	33.9	33.9	30.0	25.6	23.6	22.6	22.6	22.1
32.5°	36.4	35.4	33.0	31.0	29.5	25.6	22.6	20.7	19.2	19.2	19.7
35°	29.5	29.5	29.0	27.5	25.6	21.6	19.2	17.2	16.2	15.7	16.2
37.5°	26.1	24.6	22.6	23.1	22.1	18.7	16.2	14.8	13.3	13.3	13.3
40°	23.6	22.1	20.2	18.7	18.2	16.7	14.3	11.8	10.3	9.8	9.8
42.5°	21.2	20.2	17.2	14.8	14.3	14.3	10.8	8.9	7.4	7.4	7.4
45°	19.7	18.2	15.7	12.8	10.3	10.8	8.9	6.4	5.4	4.9	4.9
47.5°	18.7	17.2	13.8	10.8	7.9	7.9	6.4	4.4	3.4	3.0	3.0
50°	17.2	15.7	12.3	8.9	5.9	4.9	3.9	2.5	1.5	1.0	1.0
52.5°	16.2	14.8	10.8	7.4	4.9	3.4	2.5	0.5	0.0	0.0	0.0
55°	14.8	12.8	9.3	5.9	3.9	2.0	0.5	0.0	0.0	0.0	0.0
57.5°	12.8	11.3	7.4	4.4	2.5	0.5	0.0	0.0	0.0	0.0	0.0
60°	10.8	9.3	5.9	3.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8.9	7.9	4.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7.4	5.9	3.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4.9	3.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.4	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.5	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°	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5
2.5°	625.7	640.4	654.2	658.1	668.9	699.0	699.0	713.2	738.8	748.1	750.1
5°	527.8	543.5	546.5	577.0	591.2	621.7	641.9	690.1	719.1	737.3	748.6
7.5°	401.4	406.8	418.1	446.6	474.7	511.5	549.9	611.4	662.6	683.2	721.6
10°	275.9	292.2	316.8	342.3	386.1	426.9	476.6	534.7	597.6	623.2	656.2
12.5°	185.9	208.6	247.9	284.3	324.6	366.0	413.2	490.9	562.2	597.6	630.6
15°	108.7	136.2	170.2	229.2	282.8	329.1	376.3	455.0	541.6	587.3	627.6
17.5°	55.1	63.5	91.5	142.6	213.5	289.2	359.6	459.9	557.3	613.4	646.8
20°	41.3	43.8	51.6	75.7	146.1	239.1	343.8	467.3	601.1	669.4	687.6
22.5°	35.9	37.9	41.3	49.2	82.1	183.0	321.7	485.5	660.6	725.0	763.4
25°	30.5	32.5	35.4	40.3	52.6	124.4	294.6	504.7	713.7	794.9	830.8
27.5°	26.6	28.0	31.0	34.9	42.8	79.2	247.9	530.2	794.9	879.5	888.8
30°	22.6	24.1	26.6	31.0	36.4	56.1	182.0	533.7	839.6	916.4	942.4
32.5°	19.7	20.2	23.1	27.1	30.5	44.3	127.9	537.1	872.6	964.1	969.5
35°	16.2	17.2	20.2	22.6	26.6	34.9	96.9	519.9	915.4	1013.3	1011.8
37.5°	13.3	14.8	16.7	18.7	21.6	29.5	77.2	487.9	969.0	1089.5	1043.3
40°	10.3	11.8	13.8	16.2	18.2	26.6	58.0	439.7	1025.1	1126.9	1077.7
42.5°	7.4	8.4	10.3	12.8	16.2	22.1	41.8	382.7	1047.2	1170.7	1119.0
45°	5.4	6.4	7.9	10.8	16.7	17.7	29.0	330.5	1070.8	1189.8	1109.7
47.5°	3.0	3.9	5.9	9.3	14.8	13.3	20.7	283.8	1097.9	1207.1	1117.0
50°	1.0	1.5	3.4	9.8	11.8	10.3	16.2	258.7	1124.4	1210.5	1131.8
52.5°	0.0	0.0	2.0	10.3	8.9	7.9	14.3	248.9	1117.5	1221.3	1122.5
55°	0.0	0.0	0.5	4.4	4.9	5.9	11.8	248.4	1166.2	1224.8	1173.6
57.5°	0.0	0.0	0.0	1.5	3.0	4.9	10.3	232.7	1197.2	1310.3	1242.5
60°	0.0	0.0	0.0	0.5	2.0	3.4	7.9	218.9	1228.7	1348.7	1316.3
62.5°	0.0	0.0	0.0	0.0	0.5	1.5	5.4	197.7	1165.2	1345.8	1387.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	156.4	1048.2	1275.4	1348.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	108.2	917.8	1186.9	1275.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.4	740.8	1040.8	1082.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	528.8	826.3	887.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	327.1	604.0	679.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	212.0	457.4	516.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	113.1	286.8	333.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.2	174.1	200.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	105.8	120.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	21.6
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°	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5
2.5°	751.1	765.4	770.8	762.4	763.4	746.2	743.7	719.6	709.8	711.7
5°	785.5	806.2	817.5	808.1	787.0	754.0	724.0	695.5	677.8	668.9
7.5°	777.7	800.8	815.0	823.9	799.8	746.7	700.9	647.3	624.7	625.2
10°	734.4	782.6	811.6	800.3	789.0	735.8	665.0	607.0	586.8	588.8
12.5°	699.4	753.1	770.3	779.1	756.0	713.7	666.0	599.6	577.0	563.2
15°	677.8	717.6	718.6	732.4	723.1	723.1	676.3	611.4	591.7	576.5
17.5°	677.8	686.7	685.7	690.6	706.3	725.0	702.4	659.1	620.3	617.8
20°	693.0	665.5	659.1	661.1	674.4	729.9	759.9	705.8	681.2	673.4
22.5°	728.5	668.0	629.1	622.2	663.0	729.4	796.8	779.6	736.8	730.4
25°	777.2	663.5	621.2	612.4	643.4	747.2	847.5	850.9	812.1	798.8
27.5°	823.4	683.2	620.3	618.3	659.1	743.2	882.4	908.0	864.2	853.4
30°	839.1	702.9	638.5	612.4	665.0	757.5	881.4	948.3	919.8	922.3
32.5°	857.8	722.6	640.4	630.1	690.1	780.6	909.5	1013.3	992.6	963.6
35°	885.4	749.1	659.1	649.8	707.8	801.3	915.4	1061.0	1057.5	1023.6
37.5°	909.0	775.2	698.0	699.4	761.9	834.7	941.4	1119.5	1113.6	1090.5
40°	925.7	811.6	758.5	762.4	809.1	872.1	987.7	1149.0	1192.8	1158.9
42.5°	928.2	844.1	827.8	859.3	903.1	930.1	1006.4	1169.2	1232.1	1210.0
45°	937.5	895.7	941.0	964.1	1000.0	981.3	1005.4	1203.6	1235.1	1223.8
47.5°	973.9	989.6	1046.7	1117.0	1129.8	1068.3	1029.0	1209.0	1251.8	1250.3
50°	1011.8	1090.5	1170.7	1217.4	1233.6	1128.4	1051.1	1204.6	1273.9	1262.1
52.5°	1054.1	1178.0	1293.6	1351.2	1342.3	1194.8	1076.2	1240.5	1314.8	1310.8
55°	1080.6	1217.4	1372.8	1453.0	1446.1	1269.0	1155.9	1292.1	1368.4	1358.6
57.5°	1151.0	1281.3	1451.5	1488.9	1507.1	1366.4	1211.5	1376.8	1413.1	1424.0
60°	1209.0	1323.1	1472.2	1526.3	1532.7	1424.5	1308.9	1463.8	1470.2	1433.8
62.5°	1294.1	1339.4	1428.4	1477.1	1510.0	1457.4	1396.4	1510.5	1469.2	1466.8
65°	1356.6	1286.2	1346.7	1373.8	1395.0	1407.2	1484.5	1542.5	1451.0	1403.3
67.5°	1321.7	1185.9	1174.6	1176.1	1182.5	1256.7	1455.0	1464.3	1349.7	1310.3
70°	1163.3	972.9	957.7	969.5	937.5	1027.0	1335.4	1331.0	1190.8	1150.0
72.5°	941.0	709.3	683.2	699.4	706.8	801.8	1123.4	1009.3	868.6	836.7
75°	747.6	519.9	438.8	478.1	503.2	583.9	877.5	685.7	606.5	563.2
77.5°	587.3	393.5	341.4	325.6	348.7	424.5	638.5	360.1	317.7	297.6
80°	372.3	289.2	313.8	291.2	301.0	303.0	332.5	163.8	130.3	128.9
82.5°	224.3	197.7	235.1	129.4	235.6	210.5	138.2	74.3	65.9	65.9
85°	158.9	122.5	81.2	52.6	104.8	115.6	53.6	38.4	33.4	32.5
87.5°	79.7	37.9	18.2	11.8	13.3	21.6	6.4	3.0	3.0	2.5
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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