

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: P677393

Luminaire Tested: **CCW-SA-1A-727-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677393  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-727-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) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1644.2 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

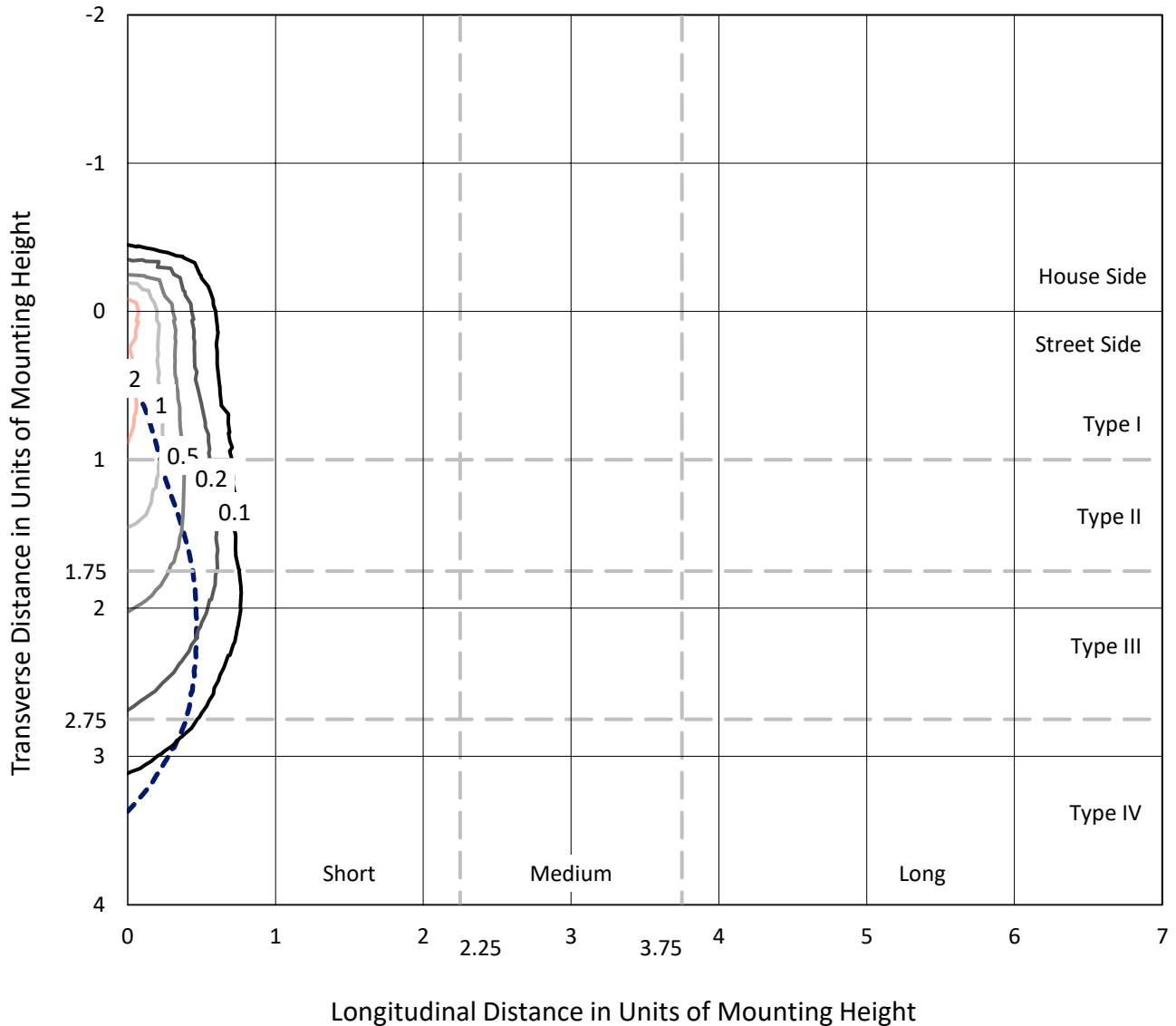
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

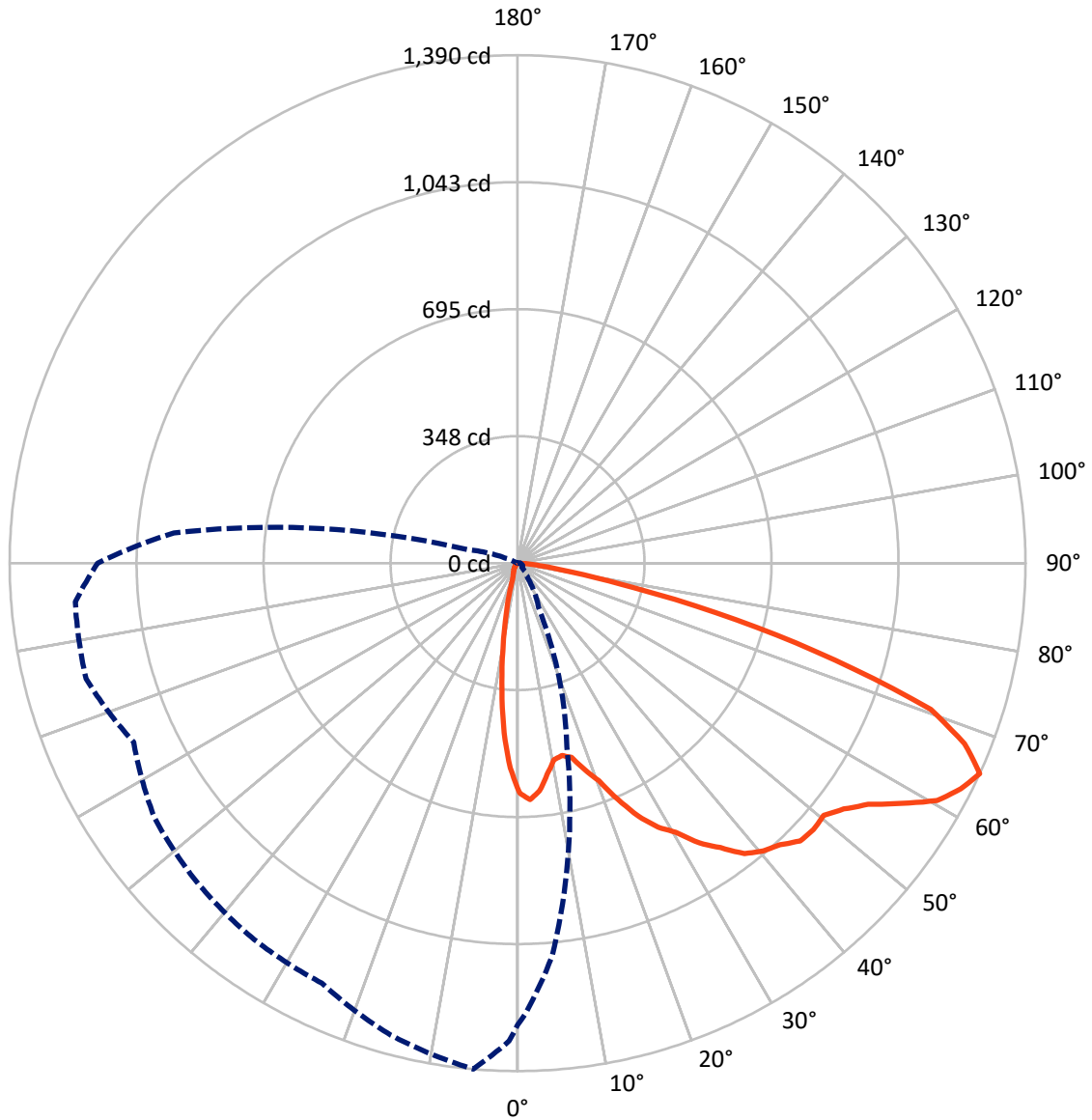
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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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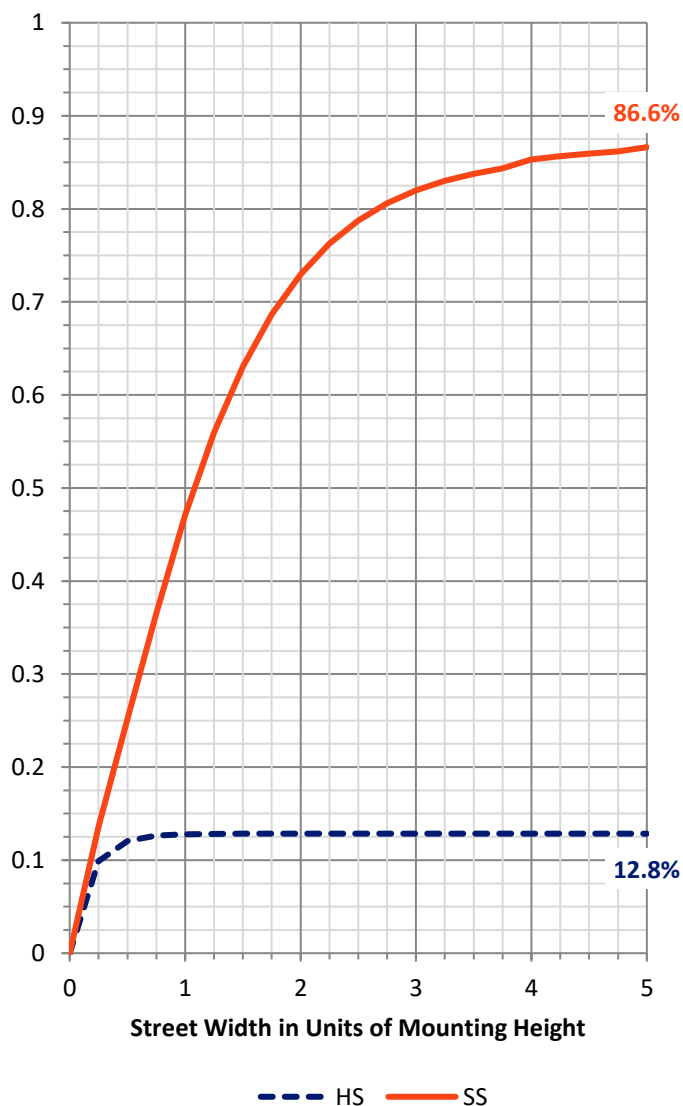
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	213.5	0.0	213.5
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	1430.7	0.0	1430.7
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	1644.2	0.0	1644.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.6	2.9
10°-20°	92.2	5.6
20°-30°	128.4	7.8
30°-40°	182.5	11.1
40°-50°	253.0	15.4
50°-60°	344.8	21.0
60°-70°	379.0	23.1
70°-80°	186.3	11.3
80°-90°	30.4	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°	1644.2	100.0
0°-180°	1644.2	100.0



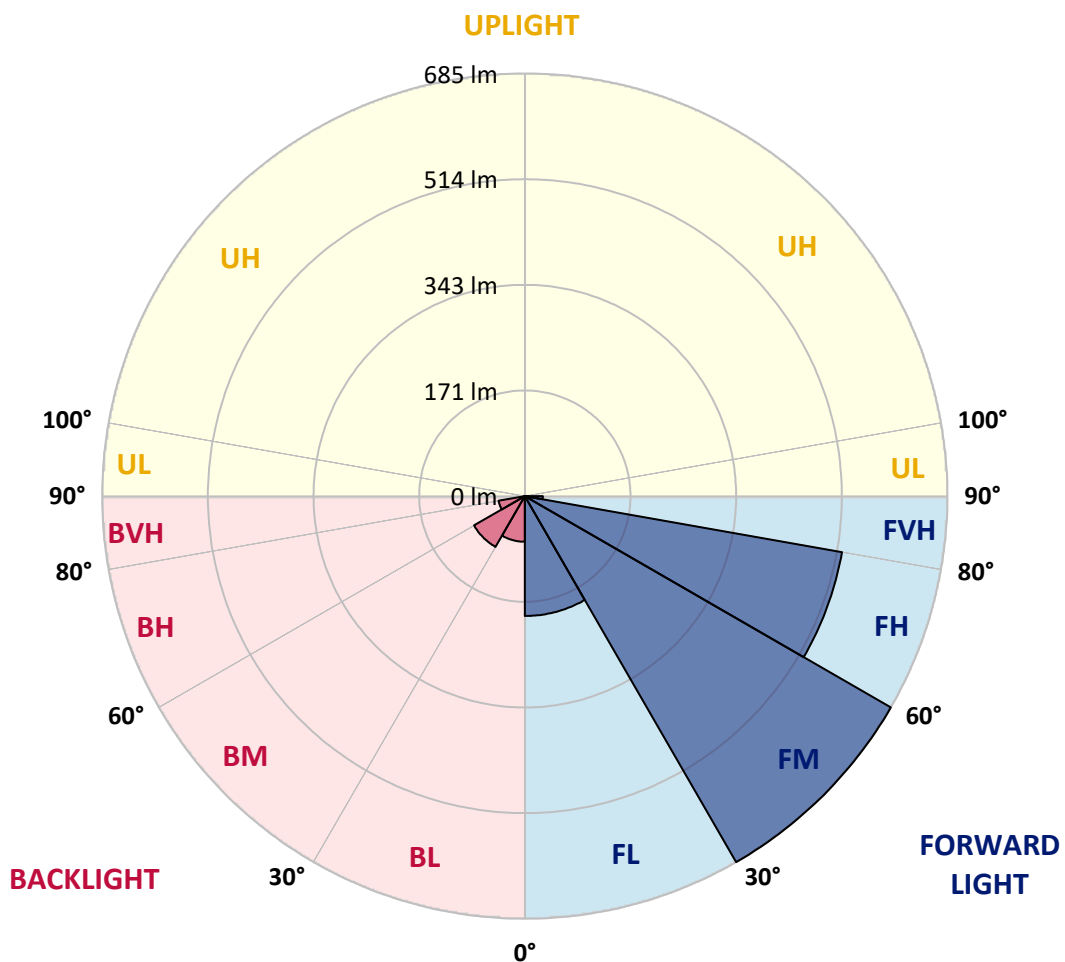
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.3	11.8			
FM (30°-60°)	685.2	41.7			
FH (60°-80°)	522.2	31.8			G0/660
FVH (80°-90°)	29.0	1.8			G1/100
BL (0°-30°)	73.9	4.5	B0/110		
BM (30°-60°)	95.0	5.8	B0/220		
BH (60°-80°)	43.1	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°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	641.4	649.0	641.9	617.1	612.6	600.7	582.5	581.1	562.1	564.3	554.1
5°	602.9	610.4	595.3	562.5	531.9	507.6	492.9	466.8	461.0	448.2	448.2
7.5°	563.4	563.0	537.3	509.8	464.1	419.3	399.0	361.3	339.1	327.1	315.6
10°	530.6	523.5	507.6	450.8	401.2	354.6	329.4	304.5	281.5	261.5	241.6
12.5°	507.6	512.0	486.7	425.1	360.8	328.5	301.4	275.3	247.8	225.2	203.0
15°	519.5	512.4	482.7	419.3	354.2	309.9	273.9	242.0	211.4	181.7	164.9
17.5°	556.8	538.6	503.6	419.3	340.4	281.5	238.0	200.4	167.6	141.0	120.1
20°	606.9	586.0	548.3	434.9	330.2	260.7	201.3	153.8	119.7	94.9	78.9
22.5°	658.3	641.9	585.1	441.1	318.3	232.7	158.7	111.3	79.8	63.8	55.9
25°	719.9	696.8	634.8	465.9	300.5	205.7	125.0	77.6	59.4	51.0	46.1
27.5°	769.1	765.1	681.3	481.0	287.2	183.5	98.9	61.6	49.2	43.0	39.9
30°	831.2	809.4	738.1	511.1	272.2	158.3	82.5	55.4	45.2	38.6	36.3
32.5°	868.4	858.2	767.8	528.0	255.3	137.4	70.9	48.8	41.2	36.3	34.1
35°	922.5	902.1	810.3	538.6	246.5	125.4	63.8	44.3	34.6	29.7	27.0
37.5°	982.8	975.2	861.3	538.1	233.6	118.4	59.0	41.2	32.8	27.5	24.4
40°	1044.4	1013.8	892.3	550.6	227.0	113.0	55.4	39.5	31.0	26.2	22.2
42.5°	1090.5	1055.5	928.2	546.1	219.0	103.7	54.1	36.8	29.7	23.9	20.4
45°	1102.9	1090.5	960.6	544.8	213.2	96.2	51.9	36.3	28.8	22.6	19.1
47.5°	1126.8	1118.4	1000.5	547.0	208.8	90.4	46.5	37.2	27.5	21.3	18.2
50°	1137.5	1122.4	1032.9	552.3	198.6	83.3	41.7	39.0	27.0	20.8	17.3
52.5°	1181.4	1168.1	1077.2	567.4	190.2	74.0	36.8	37.2	27.9	19.5	16.4
55°	1224.4	1209.3	1145.4	602.0	178.2	66.5	31.5	32.8	26.6	17.7	14.6
57.5°	1283.3	1258.5	1191.1	616.2	167.6	56.3	27.9	27.0	24.8	16.0	12.9
60°	1292.2	1302.4	1184.5	607.3	156.5	49.6	24.4	20.8	26.6	14.2	11.1
62.5°	1321.9	1279.3	1153.4	586.9	148.5	45.7	21.7	17.3	23.1	12.4	9.3
65°	1264.7	1233.2	1080.7	521.3	138.3	46.1	19.1	14.2	14.6	10.2	7.5
67.5°	1180.9	1156.1	960.2	449.9	128.1	45.2	16.8	12.4	11.1	8.9	6.6
70°	1036.4	982.8	815.6	365.3	113.0	42.1	14.2	11.1	9.3	7.1	4.9
72.5°	754.0	732.3	585.1	282.4	101.5	38.1	13.3	9.3	8.0	5.3	4.0
75°	507.6	471.7	369.3	185.3	81.6	33.2	11.1	8.4	6.2	4.0	3.1
77.5°	268.2	253.6	209.2	88.2	45.2	15.5	6.2	4.9	3.5	3.1	1.8
80°	116.1	103.3	90.4	35.9	16.0	7.1	4.0	2.7	2.2	1.8	0.9
82.5°	59.4	56.7	47.0	15.5	9.3	5.3	2.2	1.8	1.3	0.9	0.4
85°	29.3	30.1	24.8	4.9	5.3	3.1	0.4	0.4	0.0	0.0	0.0
87.5°	2.2	2.2	1.8	0.9	1.3	0.4	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°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	550.1	556.3	545.7	552.3	549.2	550.6	551.9	548.3	549.2	561.6	562.1
5°	440.6	452.6	448.2	454.4	465.0	459.7	464.6	463.7	464.6	466.3	474.3
7.5°	314.3	310.7	319.2	335.6	354.6	366.2	360.4	357.3	355.5	351.1	356.4
10°	237.2	235.4	233.2	238.0	250.5	263.3	270.4	258.4	251.8	243.4	240.3
12.5°	196.8	185.7	179.5	172.0	175.5	187.1	187.5	176.0	165.3	160.9	165.8
15°	155.1	147.6	136.5	125.9	120.6	129.4	121.9	110.8	97.1	95.3	94.9
17.5°	110.8	106.4	98.4	94.0	87.8	85.6	77.6	60.7	51.0	48.3	49.2
20°	75.4	71.8	71.4	67.4	64.7	62.9	50.1	39.0	35.9	36.3	36.8
22.5°	55.9	54.1	51.9	51.4	49.2	47.0	36.8	32.8	30.6	30.6	31.9
25°	45.7	44.8	42.6	41.7	40.8	37.7	31.0	27.9	27.0	26.2	27.5
27.5°	39.0	38.6	37.2	35.9	35.0	31.9	27.0	24.4	23.5	23.5	23.5
30°	35.0	35.0	33.2	30.6	30.6	27.0	23.1	21.3	20.4	20.4	19.9
32.5°	32.8	31.9	29.7	27.9	26.6	23.1	20.4	18.6	17.3	17.3	17.7
35°	26.6	26.6	26.2	24.8	23.1	19.5	17.3	15.5	14.6	14.2	14.6
37.5°	23.5	22.2	20.4	20.8	19.9	16.8	14.6	13.3	12.0	12.0	12.0
40°	21.3	19.9	18.2	16.8	16.4	15.1	12.9	10.6	9.3	8.9	8.9
42.5°	19.1	18.2	15.5	13.3	12.9	12.9	9.8	8.0	6.6	6.6	6.6
45°	17.7	16.4	14.2	11.5	9.3	9.8	8.0	5.8	4.9	4.4	4.4
47.5°	16.8	15.5	12.4	9.8	7.1	7.1	5.8	4.0	3.1	2.7	2.7
50°	15.5	14.2	11.1	8.0	5.3	4.4	3.5	2.2	1.3	0.9	0.9
52.5°	14.6	13.3	9.8	6.6	4.4	3.1	2.2	0.4	0.0	0.0	0.0
55°	13.3	11.5	8.4	5.3	3.5	1.8	0.4	0.0	0.0	0.0	0.0
57.5°	11.5	10.2	6.6	4.0	2.2	0.4	0.0	0.0	0.0	0.0	0.0
60°	9.8	8.4	5.3	3.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8.0	7.1	4.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6.6	5.3	3.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4.4	3.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.1	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.4	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°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	563.9	577.2	589.6	593.1	602.9	629.9	629.9	642.8	665.8	674.2	676.0
5°	475.6	489.8	492.5	520.0	532.8	560.3	578.5	621.9	648.1	664.5	674.7
7.5°	361.7	366.6	376.8	402.5	427.8	461.0	495.6	551.0	597.1	615.7	650.3
10°	248.7	263.3	285.5	308.5	348.0	384.8	429.5	481.9	538.6	561.6	591.3
12.5°	167.6	188.0	223.4	256.2	292.6	329.8	372.4	442.4	506.7	538.6	568.3
15°	98.0	122.8	153.4	206.6	254.9	296.6	339.1	410.0	488.1	529.3	565.6
17.5°	49.6	57.2	82.5	128.6	192.4	260.7	324.0	414.5	502.2	552.8	582.9
20°	37.2	39.5	46.5	68.3	131.7	215.4	309.9	421.1	541.7	603.3	619.7
22.5°	32.4	34.1	37.2	44.3	74.0	164.9	289.9	437.5	595.3	653.4	688.0
25°	27.5	29.3	31.9	36.3	47.4	112.2	265.5	454.8	643.2	716.3	748.7
27.5°	23.9	25.3	27.9	31.5	38.6	71.4	223.4	477.9	716.3	792.6	801.0
30°	20.4	21.7	23.9	27.9	32.8	50.5	164.0	481.0	756.7	825.8	849.3
32.5°	17.7	18.2	20.8	24.4	27.5	39.9	115.3	484.1	786.4	868.8	873.7
35°	14.6	15.5	18.2	20.4	23.9	31.5	87.3	468.6	825.0	913.2	911.8
37.5°	12.0	13.3	15.1	16.8	19.5	26.6	69.6	439.7	873.3	981.9	940.2
40°	9.3	10.6	12.4	14.6	16.4	23.9	52.3	396.3	923.8	1015.6	971.2
42.5°	6.6	7.5	9.3	11.5	14.6	19.9	37.7	344.9	943.8	1055.0	1008.5
45°	4.9	5.8	7.1	9.8	15.1	16.0	26.2	297.9	965.0	1072.3	1000.0
47.5°	2.7	3.5	5.3	8.4	13.3	12.0	18.6	255.8	989.4	1087.8	1006.7
50°	0.9	1.3	3.1	8.9	10.6	9.3	14.6	233.2	1013.3	1090.9	1020.0
52.5°	0.0	0.0	1.8	9.3	8.0	7.1	12.9	224.3	1007.1	1100.7	1011.6
55°	0.0	0.0	0.4	4.0	4.4	5.3	10.6	223.9	1051.0	1103.8	1057.7
57.5°	0.0	0.0	0.0	1.3	2.7	4.4	9.3	209.7	1079.0	1180.9	1119.7
60°	0.0	0.0	0.0	0.4	1.8	3.1	7.1	197.3	1107.3	1215.5	1186.2
62.5°	0.0	0.0	0.0	0.0	0.4	1.3	4.9	178.2	1050.1	1212.8	1250.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	141.0	944.6	1149.4	1215.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	97.5	827.2	1069.6	1149.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.0	667.6	938.0	975.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.3	476.5	744.7	800.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	294.8	544.4	612.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	191.1	412.3	465.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	102.0	258.4	300.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.3	156.9	180.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	95.3	108.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	19.5
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	676.9	689.8	694.6	687.1	688.0	672.5	670.2	648.5	639.7	641.4
5°	707.9	726.5	736.7	728.3	709.3	679.6	652.5	626.8	610.8	602.9
7.5°	700.8	721.7	734.5	742.5	720.8	672.9	631.7	583.4	563.0	563.4
10°	661.8	705.3	731.4	721.2	711.0	663.2	599.3	547.0	528.8	530.6
12.5°	630.4	678.7	694.2	702.2	681.3	643.2	600.2	540.4	520.0	507.6
15°	610.8	646.8	647.6	660.1	651.6	651.6	609.5	551.0	533.3	519.5
17.5°	610.8	618.8	617.9	622.4	636.6	653.4	633.0	594.0	559.0	556.8
20°	624.6	599.8	594.0	595.8	607.7	657.8	684.9	636.1	613.9	606.9
22.5°	656.5	602.0	567.0	560.8	597.5	657.4	718.1	702.6	664.0	658.3
25°	700.4	598.0	559.9	551.9	579.8	673.3	763.8	766.9	731.9	719.9
27.5°	742.1	615.7	559.0	557.2	594.0	669.8	795.3	818.3	778.9	769.1
30°	756.2	633.5	575.4	551.9	599.3	682.7	794.4	854.7	828.9	831.2
32.5°	773.1	651.2	577.2	567.8	621.9	703.5	819.6	913.2	894.5	868.4
35°	797.9	675.1	594.0	585.6	637.9	722.1	825.0	956.2	953.1	922.5
37.5°	819.2	698.6	629.0	630.4	686.6	752.3	848.4	1008.9	1003.6	982.8
40°	834.3	731.4	683.5	687.1	729.2	785.9	890.1	1035.5	1075.0	1044.4
42.5°	836.5	760.7	746.0	774.4	813.9	838.3	907.0	1053.7	1110.4	1090.5
45°	844.9	807.2	848.0	868.8	901.2	884.4	906.1	1084.7	1113.1	1102.9
47.5°	877.7	891.9	943.3	1006.7	1018.2	962.8	927.4	1089.6	1128.2	1126.8
50°	911.8	982.8	1055.0	1097.1	1111.8	1016.9	947.3	1085.6	1148.1	1137.5
52.5°	950.0	1061.7	1165.8	1217.7	1209.7	1076.7	969.9	1118.0	1184.9	1181.4
55°	973.9	1097.1	1237.2	1309.5	1303.3	1143.7	1041.7	1164.5	1233.2	1224.4
57.5°	1037.3	1154.8	1308.1	1341.8	1358.2	1231.4	1091.8	1240.8	1273.6	1283.3
60°	1089.6	1192.4	1326.8	1375.5	1381.3	1283.8	1179.6	1319.2	1325.0	1292.2
62.5°	1166.3	1207.1	1287.3	1331.2	1360.9	1313.5	1258.5	1361.3	1324.1	1321.9
65°	1222.6	1159.2	1213.7	1238.1	1257.2	1268.2	1337.8	1390.1	1307.7	1264.7
67.5°	1191.1	1068.8	1058.6	1059.9	1065.7	1132.6	1311.2	1319.7	1216.4	1180.9
70°	1048.4	876.8	863.1	873.7	844.9	925.6	1203.5	1199.5	1073.2	1036.4
72.5°	848.0	639.2	615.7	630.4	637.0	722.6	1012.5	909.6	782.8	754.0
75°	673.8	468.6	395.4	430.9	453.5	526.2	790.8	617.9	546.6	507.6
77.5°	529.3	354.6	307.6	293.5	314.3	382.6	575.4	324.5	286.4	268.2
80°	335.6	260.7	282.8	262.4	271.3	273.1	299.7	147.6	117.5	116.1
82.5°	202.1	178.2	211.9	116.6	212.3	189.7	124.6	66.9	59.4	59.4
85°	143.2	110.4	73.1	47.4	94.4	104.2	48.3	34.6	30.1	29.3
87.5°	71.8	34.1	16.4	10.6	12.0	19.5	5.8	2.7	2.7	2.2
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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