

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: P677249

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677249  
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-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

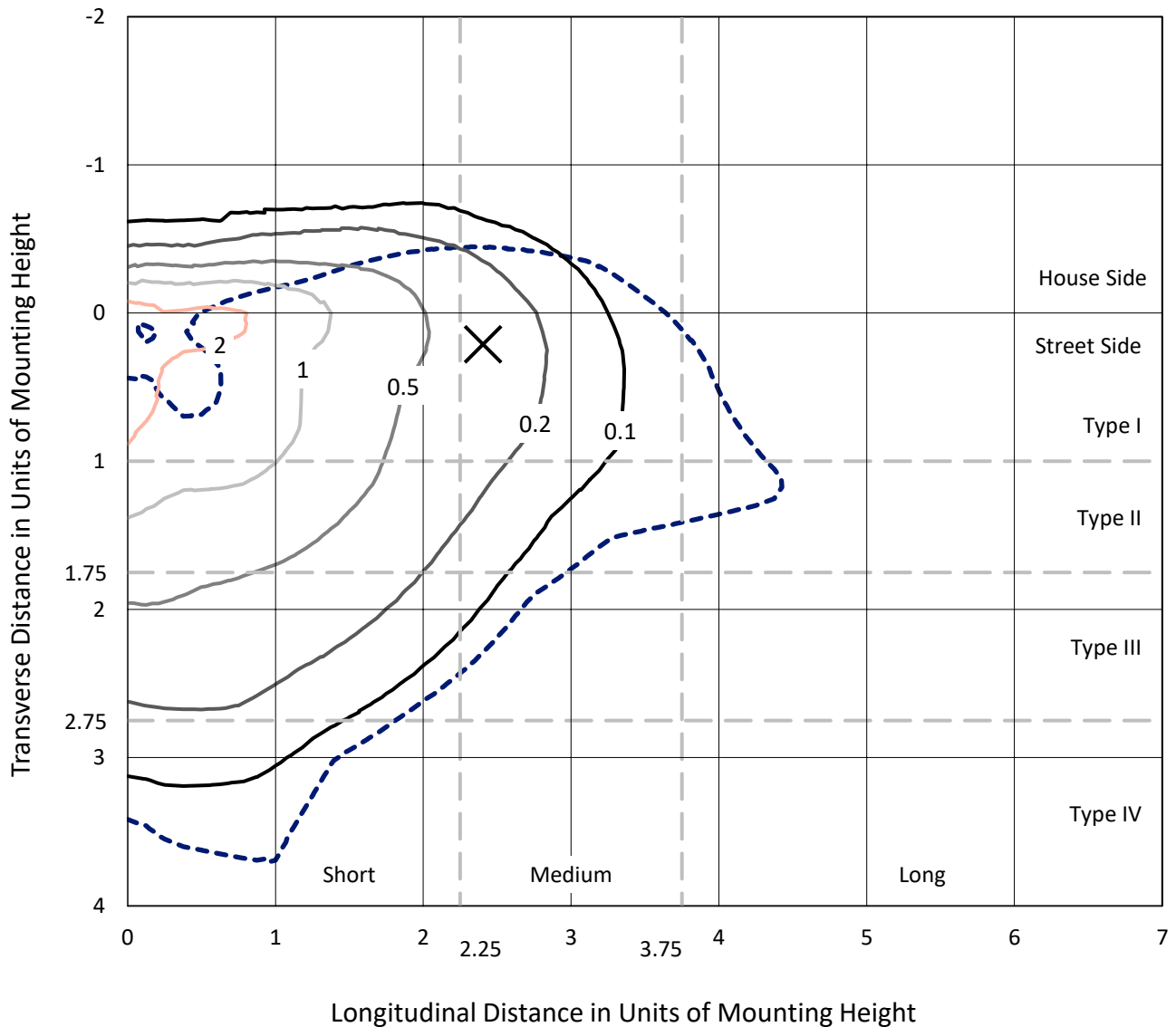
Lumens per Lamp: N/A  
Luminaire Lumens: 1660 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

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

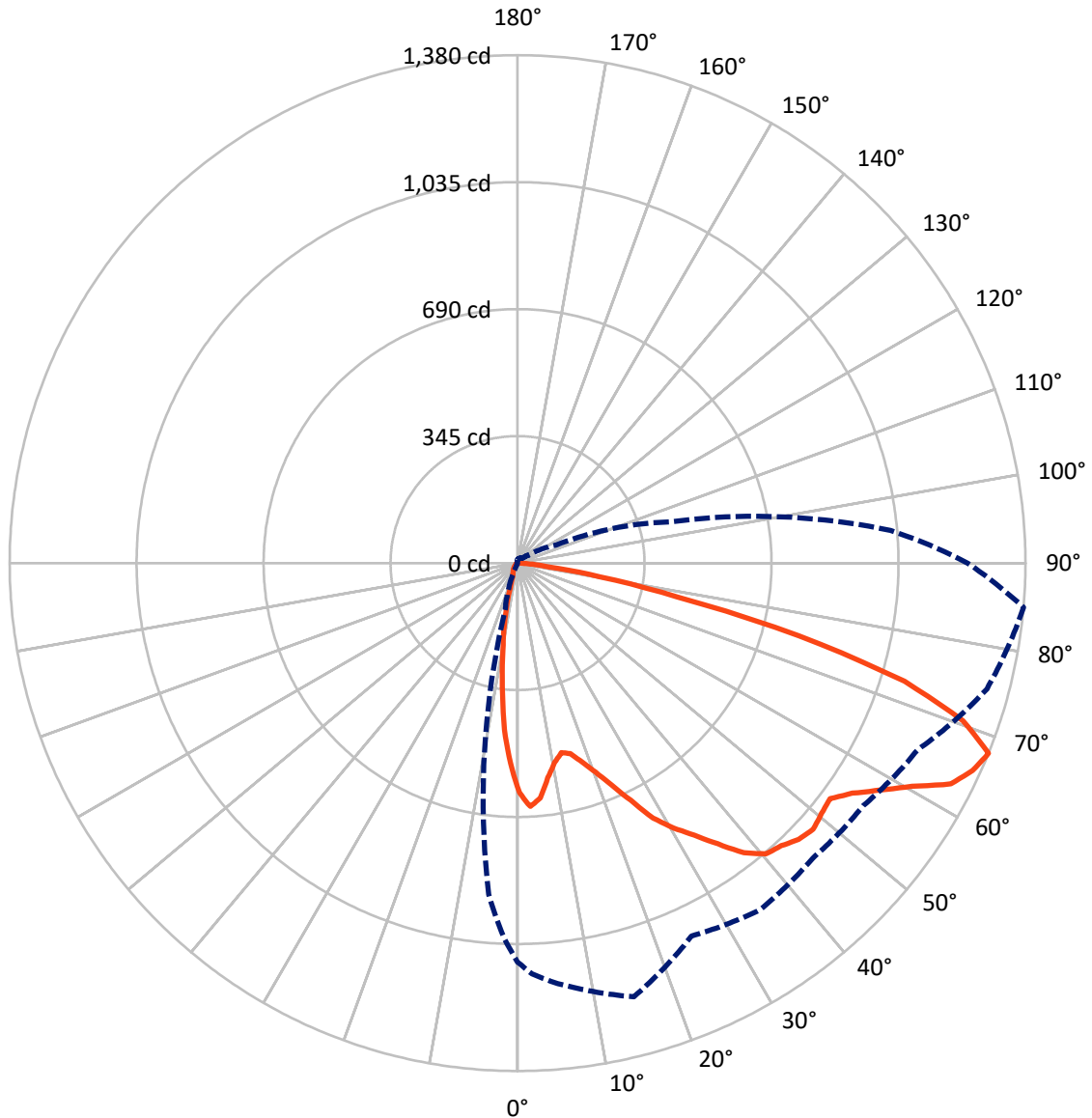
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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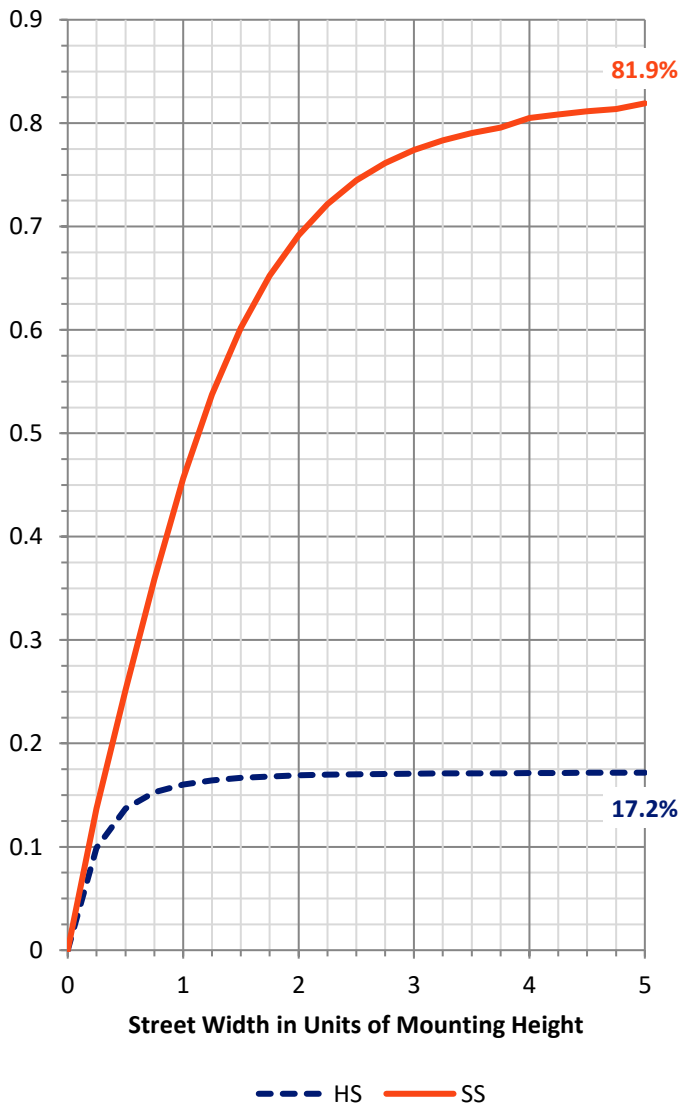
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	288.2	0.0	288.2
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	1371.8	0.0	1371.8
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	1660.0	0.0	1660.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	2.9
10°-20°	93.0	5.6
20°-30°	128.7	7.8
30°-40°	181.8	11.0
40°-50°	247.6	14.9
50°-60°	327.9	19.8
60°-70°	380.7	22.9
70°-80°	215.6	13.0
80°-90°	37.3	2.2
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°	1660.0	100.0
0°-180°	1660.0	100.0



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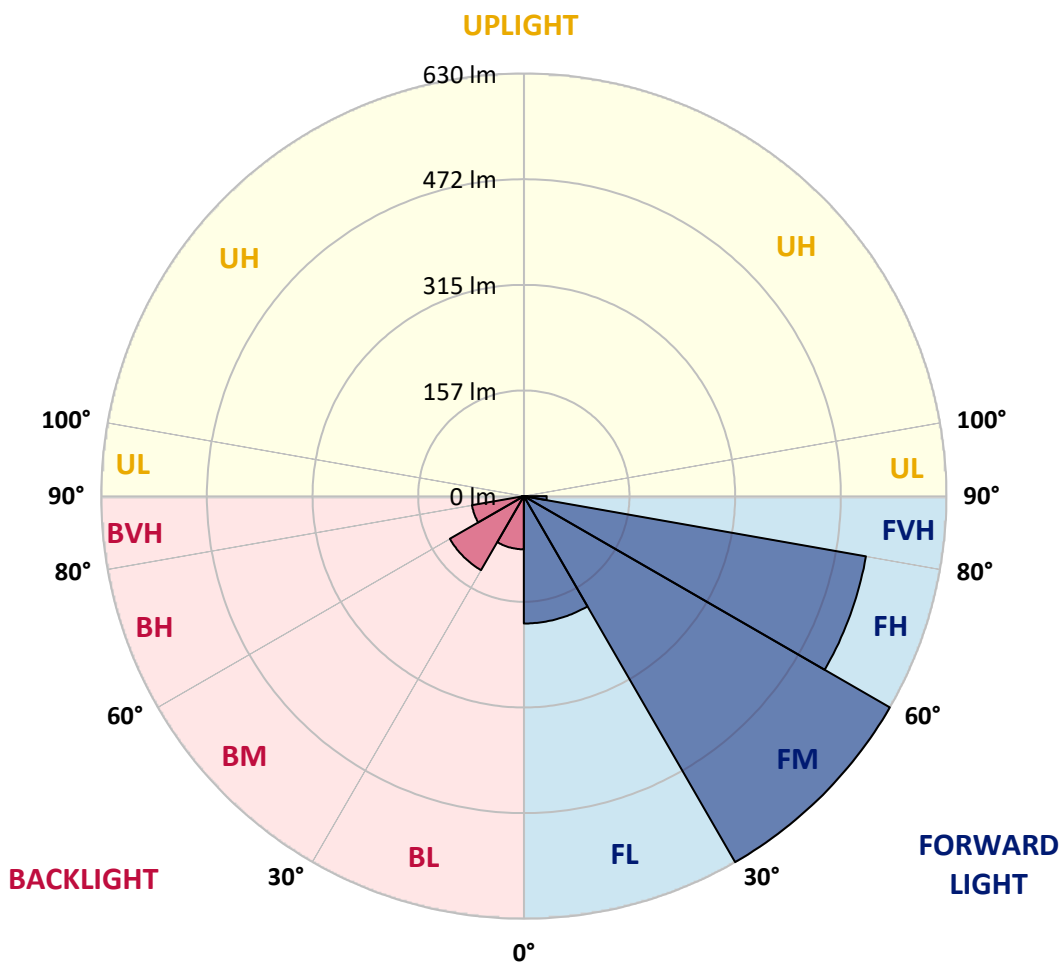
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.8	11.4			
FM (30°-60°)	630.0	38.0			
FH (60°-80°)	517.8	31.2			G0/660
FVH (80°-90°)	34.1	2.1			G1/100
BL (0°-30°)	79.2	4.8	B0/110		
BM (30°-60°)	127.4	7.7	B0/220		
BH (60°-80°)	78.5	4.7	B0/110		G0/110
BVH (80°-90°)	3.1	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2
2.5°	648.5	662.3	662.7	668.9	675.1	675.1	689.8	686.2	673.4	671.1	661.8
5°	653.4	658.3	661.8	693.3	719.9	717.2	725.2	719.9	695.1	663.2	641.4
7.5°	611.3	616.6	630.8	684.4	720.3	732.3	747.4	714.1	688.0	630.4	588.7
10°	555.4	565.6	591.8	653.0	697.3	735.4	735.4	708.8	658.3	602.0	551.0
12.5°	524.4	544.8	559.0	621.0	678.7	704.8	703.9	689.8	657.0	586.0	528.4
15°	529.7	535.5	565.6	614.0	652.1	650.7	666.7	662.3	639.2	600.2	536.8
17.5°	554.1	563.0	589.1	614.0	632.1	626.8	626.4	647.6	649.0	624.2	568.3
20°	594.0	620.2	632.6	640.1	617.9	595.3	592.7	622.4	645.4	654.7	606.0
22.5°	657.8	675.1	700.4	661.8	604.2	575.8	570.5	603.3	649.9	691.1	654.7
25°	720.3	733.6	758.0	708.4	619.7	571.8	562.5	590.9	666.7	741.6	713.7
27.5°	786.4	797.9	800.6	742.5	628.1	563.9	552.8	590.9	680.9	768.2	784.2
30°	826.7	840.5	843.1	772.7	641.9	570.5	565.2	593.6	690.6	790.8	834.7
32.5°	871.9	875.5	873.3	778.0	657.0	590.0	567.9	611.3	701.7	817.9	880.8
35°	926.0	932.2	909.6	802.4	690.6	602.4	594.5	633.0	720.8	830.3	936.7
37.5°	967.3	986.8	935.8	811.7	697.3	628.6	629.9	678.2	734.1	845.4	998.3
40°	1044.8	1012.0	980.1	843.6	722.6	672.9	665.8	724.8	778.9	855.1	1038.6
42.5°	1087.4	1070.1	997.4	846.7	761.6	734.1	735.9	777.5	802.4	882.6	1049.7
45°	1098.0	1079.9	1020.9	848.9	800.1	806.3	836.9	844.9	836.9	900.8	1070.5
47.5°	1125.1	1085.6	1018.2	878.6	862.6	886.6	925.6	942.9	883.9	894.1	1080.3
50°	1119.7	1097.1	1012.5	891.0	938.9	1002.3	1028.4	1021.3	936.2	880.4	1069.7
52.5°	1097.6	1073.2	1030.2	924.7	1010.3	1086.9	1123.3	1105.6	982.8	911.4	1062.6
55°	1129.9	1111.3	1053.3	970.4	1063.9	1161.4	1187.1	1173.8	1040.0	940.2	1102.9
57.5°	1165.0	1161.0	1115.8	1024.0	1127.3	1238.1	1238.1	1221.7	1089.6	981.9	1162.7
60°	1215.5	1224.4	1161.9	1059.5	1149.0	1233.7	1298.0	1278.9	1139.7	1055.0	1230.6
62.5°	1199.1	1227.5	1221.3	1135.7	1173.8	1255.4	1290.4	1304.6	1201.8	1144.1	1321.0
65°	1146.3	1176.5	1220.8	1185.8	1155.2	1202.6	1220.4	1263.4	1232.8	1227.9	1358.2
67.5°	1083.4	1116.2	1143.7	1219.5	1117.5	1149.0	1133.5	1147.2	1199.1	1319.7	1379.5
70°	946.0	977.5	1020.9	1144.6	1017.8	989.4	985.4	978.8	1059.5	1286.9	1282.9
72.5°	778.0	792.6	864.4	930.5	753.1	747.8	754.0	746.5	840.0	1165.0	1098.9
75°	582.5	597.1	637.9	714.6	512.9	482.3	517.8	552.8	641.4	904.3	789.5
77.5°	438.0	456.6	482.3	534.6	376.4	328.5	333.4	366.6	463.7	724.3	442.4
80°	284.1	281.9	331.6	367.9	283.3	292.1	279.7	304.1	336.0	387.4	226.1
82.5°	164.0	166.2	187.1	211.0	197.3	225.6	162.7	271.7	239.8	157.8	84.2
85°	92.2	96.2	115.3	146.3	123.7	82.9	67.8	134.8	150.7	64.7	40.8
87.5°	9.3	8.0	15.5	55.4	33.7	13.7	20.4	32.4	36.3	24.4	12.0
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°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2
2.5°	648.5	648.5	637.4	618.8	611.3	598.0	579.8	585.6	579.4	556.8	551.0
5°	621.9	600.7	577.6	549.2	532.8	499.1	488.5	469.4	472.5	453.5	454.4
7.5°	566.5	549.7	510.7	473.4	441.1	411.8	370.6	355.1	340.0	332.5	341.3
10°	534.2	502.7	449.5	400.7	357.7	331.6	304.1	282.8	263.3	248.7	245.6
12.5°	510.7	482.7	418.5	359.1	325.4	304.1	278.8	249.6	230.5	205.2	197.7
15°	503.6	469.4	401.6	342.7	309.9	274.8	246.0	217.2	192.4	165.8	156.5
17.5°	528.0	488.5	401.2	329.4	283.3	245.6	205.7	173.3	148.1	123.7	117.9
20°	569.2	508.9	414.0	321.4	258.0	207.5	162.2	129.9	101.5	85.6	81.6
22.5°	616.2	543.5	415.4	300.1	232.7	169.3	118.4	85.6	69.6	62.1	59.8
25°	673.8	598.9	431.3	282.8	203.0	128.6	84.2	65.6	56.3	51.9	51.0
27.5°	721.2	637.4	448.6	264.6	173.8	95.3	66.1	53.6	48.8	44.3	43.9
30°	770.4	681.8	453.5	253.6	148.5	78.5	56.7	47.4	42.1	39.9	39.5
32.5°	813.4	730.1	469.0	235.4	124.6	69.2	51.4	42.6	39.0	35.5	35.0
35°	868.8	758.0	476.5	225.6	115.7	62.5	47.0	39.0	33.7	31.5	30.6
37.5°	928.2	785.1	481.4	218.1	108.2	58.5	44.3	36.8	31.9	28.8	27.9
40°	983.7	823.2	474.3	208.8	102.4	53.6	42.6	34.1	29.7	26.6	25.3
42.5°	1026.2	860.4	472.1	199.9	96.2	51.9	40.3	32.8	27.9	24.4	23.9
45°	1050.2	885.7	456.6	192.8	91.3	52.8	39.5	31.0	26.6	23.5	21.7
47.5°	1044.4	905.2	460.6	190.6	84.7	49.2	39.0	29.7	24.4	21.7	20.4
50°	1076.3	944.6	453.9	183.5	79.8	44.3	42.6	29.7	23.9	20.8	19.5
52.5°	1081.6	980.6	468.1	170.7	72.3	40.8	42.1	29.3	23.1	19.9	18.2
55°	1126.0	1022.2	495.6	163.6	66.1	35.5	38.6	28.4	20.8	18.2	17.3
57.5°	1186.2	1108.7	513.3	156.9	57.6	31.0	32.4	27.9	19.1	16.8	15.5
60°	1244.3	1143.2	514.7	145.0	49.6	27.9	25.3	27.9	17.7	15.1	13.7
62.5°	1287.8	1143.2	505.8	134.8	43.4	24.8	22.2	26.6	16.0	13.3	12.4
65°	1264.3	1112.7	482.7	126.3	39.5	21.7	19.1	20.4	14.2	11.5	10.6
67.5°	1222.1	1017.3	431.8	116.1	39.0	19.1	16.4	15.1	12.4	10.2	9.3
70°	1154.8	888.8	359.5	104.6	38.1	17.3	14.6	12.9	11.1	8.9	8.0
72.5°	930.5	734.1	295.2	98.0	37.2	15.1	12.4	11.1	9.3	7.5	6.6
75°	644.5	469.0	227.4	83.8	36.3	13.7	11.5	9.8	8.0	6.2	5.8
77.5°	386.5	313.4	146.7	62.9	23.9	11.1	9.8	7.5	6.6	5.3	4.9
80°	180.9	148.1	59.4	24.4	11.5	8.0	6.6	5.8	5.3	4.4	4.0
82.5°	70.9	62.5	28.8	14.2	9.3	6.2	5.3	4.9	4.4	3.5	3.1
85°	38.1	33.7	13.7	9.8	6.6	4.4	4.4	4.0	3.5	3.1	2.7
87.5°	8.4	6.2	5.8	5.8	4.9	3.5	3.5	3.1	2.7	2.2	1.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2
2.5°	547.9	554.6	543.9	550.6	541.3	548.3	549.2	542.6	544.4	553.2	557.2
5°	466.8	462.4	452.6	449.5	449.9	444.2	446.4	449.5	454.4	457.0	465.0
7.5°	336.5	346.7	346.2	353.7	354.2	353.3	347.1	333.8	338.2	334.7	339.1
10°	240.7	245.1	253.6	258.4	267.3	262.4	248.2	242.9	240.3	239.8	244.3
12.5°	192.4	181.7	180.9	182.6	187.1	181.3	174.2	168.0	171.1	177.3	182.2
15°	148.9	140.1	128.6	126.8	127.7	125.0	117.5	109.5	111.7	117.9	121.5
17.5°	114.4	104.2	96.2	90.9	89.1	79.8	68.7	62.1	60.3	59.8	62.9
20°	77.1	75.4	74.0	67.4	67.4	54.1	44.8	39.9	39.9	40.8	41.2
22.5°	57.6	55.4	55.9	54.5	51.0	40.3	35.5	34.1	34.1	35.0	35.0
25°	50.1	47.0	46.1	45.7	42.1	34.6	31.0	29.7	29.7	30.6	30.6
27.5°	42.6	41.7	40.3	38.6	35.5	29.7	27.5	26.2	26.6	27.0	26.6
30°	39.0	36.8	35.0	35.0	31.5	26.6	24.8	23.9	23.1	23.9	24.4
32.5°	34.6	33.2	32.4	31.0	27.0	23.5	21.7	20.8	20.4	20.4	20.8
35°	29.7	29.7	28.8	27.0	23.5	21.3	19.1	18.2	17.7	18.2	18.2
37.5°	26.6	25.3	25.7	23.9	20.8	18.6	16.4	15.5	15.5	15.1	15.5
40°	24.8	22.6	21.3	20.4	18.6	16.0	14.2	13.3	12.9	12.9	12.9
42.5°	22.2	20.4	17.7	17.3	16.8	13.7	11.5	11.1	10.6	10.2	10.2
45°	20.8	18.2	16.0	13.7	13.7	11.5	9.8	8.9	8.4	8.0	8.4
47.5°	19.1	16.4	13.7	11.5	11.1	9.3	7.5	6.6	6.2	6.2	6.2
50°	18.2	14.6	12.0	9.8	8.4	7.5	5.8	4.9	4.4	4.4	4.4
52.5°	16.8	13.7	10.6	8.4	6.6	5.8	4.4	3.5	3.1	3.1	3.1
55°	15.1	12.4	9.3	7.1	5.8	4.4	3.1	2.2	1.8	1.8	1.8
57.5°	14.2	11.1	8.0	6.2	4.4	3.1	1.8	1.3	1.3	0.9	1.3
60°	12.9	9.8	6.6	4.9	3.5	2.2	1.3	0.4	0.4	0.4	0.4
62.5°	11.1	8.4	5.8	4.0	2.7	1.3	0.4	0.0	0.0	0.0	0.0
65°	9.3	6.6	4.4	3.1	1.8	0.4	0.0	0.0	0.0	0.0	0.0
67.5°	8.0	5.8	3.5	2.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.1	4.9	2.7	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.8	4.0	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.9	3.1	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.1	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.4	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2
2.5°	563.0	560.3	573.6	595.3	606.4	628.1	633.5	647.2	643.7	648.5
5°	465.9	471.2	490.7	522.6	534.2	565.6	595.3	625.0	644.1	653.4
7.5°	345.8	363.5	387.4	416.7	446.4	487.6	538.2	572.7	591.3	611.3
10°	257.6	276.6	304.1	332.9	381.2	427.3	477.9	520.9	536.8	555.4
12.5°	202.6	232.3	264.2	295.2	324.0	367.9	430.4	492.9	510.2	524.4
15°	141.0	177.3	223.0	263.3	303.7	341.8	406.5	482.3	505.8	529.7
17.5°	78.0	106.8	159.1	215.9	275.3	333.8	414.5	501.8	537.3	554.1
20°	45.2	56.7	94.0	161.4	239.8	316.5	418.5	538.6	585.6	594.0
22.5°	37.2	41.2	53.2	101.1	196.4	305.4	438.9	590.0	637.9	657.8
25°	31.9	35.0	41.2	60.7	148.5	281.9	451.7	654.3	698.6	720.3
27.5°	28.4	31.5	36.3	44.8	101.1	249.6	473.0	712.4	756.7	786.4
30°	24.8	27.5	32.4	38.1	70.0	213.2	491.2	754.9	817.4	826.7
32.5°	22.2	24.4	27.9	32.8	51.9	161.8	505.8	798.8	851.6	871.9
35°	19.1	21.7	23.9	27.9	39.5	121.9	496.9	832.9	901.7	926.0
37.5°	16.8	18.6	20.8	23.5	33.2	95.3	478.8	873.7	944.6	967.3
40°	14.2	15.5	18.2	20.8	30.1	73.6	457.9	922.9	1004.9	1044.8
42.5°	12.0	13.3	15.1	19.5	24.8	54.5	415.8	961.1	1053.7	1087.4
45°	9.3	11.1	13.7	19.5	19.9	40.3	372.4	989.4	1081.2	1098.0
47.5°	7.1	8.9	13.3	16.8	16.0	27.9	320.9	1021.8	1109.6	1125.1
50°	5.3	7.1	15.1	14.6	13.3	21.3	288.6	1044.4	1111.3	1119.7
52.5°	3.5	5.3	12.4	11.1	11.1	18.6	279.7	1043.5	1115.8	1097.6
55°	2.7	4.0	7.1	8.0	9.8	16.4	271.7	1076.7	1117.1	1129.9
57.5°	1.8	3.1	4.9	6.2	8.4	14.2	255.3	1116.6	1158.3	1165.0
60°	0.9	2.2	3.5	4.9	7.1	12.4	232.3	1145.9	1208.4	1215.5
62.5°	0.4	1.3	2.7	4.0	5.8	9.8	208.3	1099.4	1186.7	1199.1
65°	0.0	0.9	1.8	2.7	3.5	7.1	169.3	992.5	1100.7	1146.3
67.5°	0.0	0.0	0.9	1.8	2.2	5.3	127.7	903.0	1021.3	1083.4
70°	0.0	0.0	0.4	0.4	1.3	4.0	81.6	747.8	911.8	946.0
72.5°	0.0	0.0	0.0	0.0	0.4	2.7	47.4	555.4	714.6	778.0
75°	0.0	0.0	0.0	0.0	0.0	2.2	23.9	357.3	497.4	582.5
77.5°	0.0	0.0	0.0	0.0	0.0	1.8	12.9	230.5	366.6	438.0
80°	0.0	0.0	0.0	0.0	0.0	0.4	7.5	133.9	234.5	284.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	65.6	140.1	164.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	35.0	70.0	92.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.9	9.3
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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