

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: P675897

Luminaire Tested: **CCW-SA-1A-835-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675897  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-835-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SLL distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

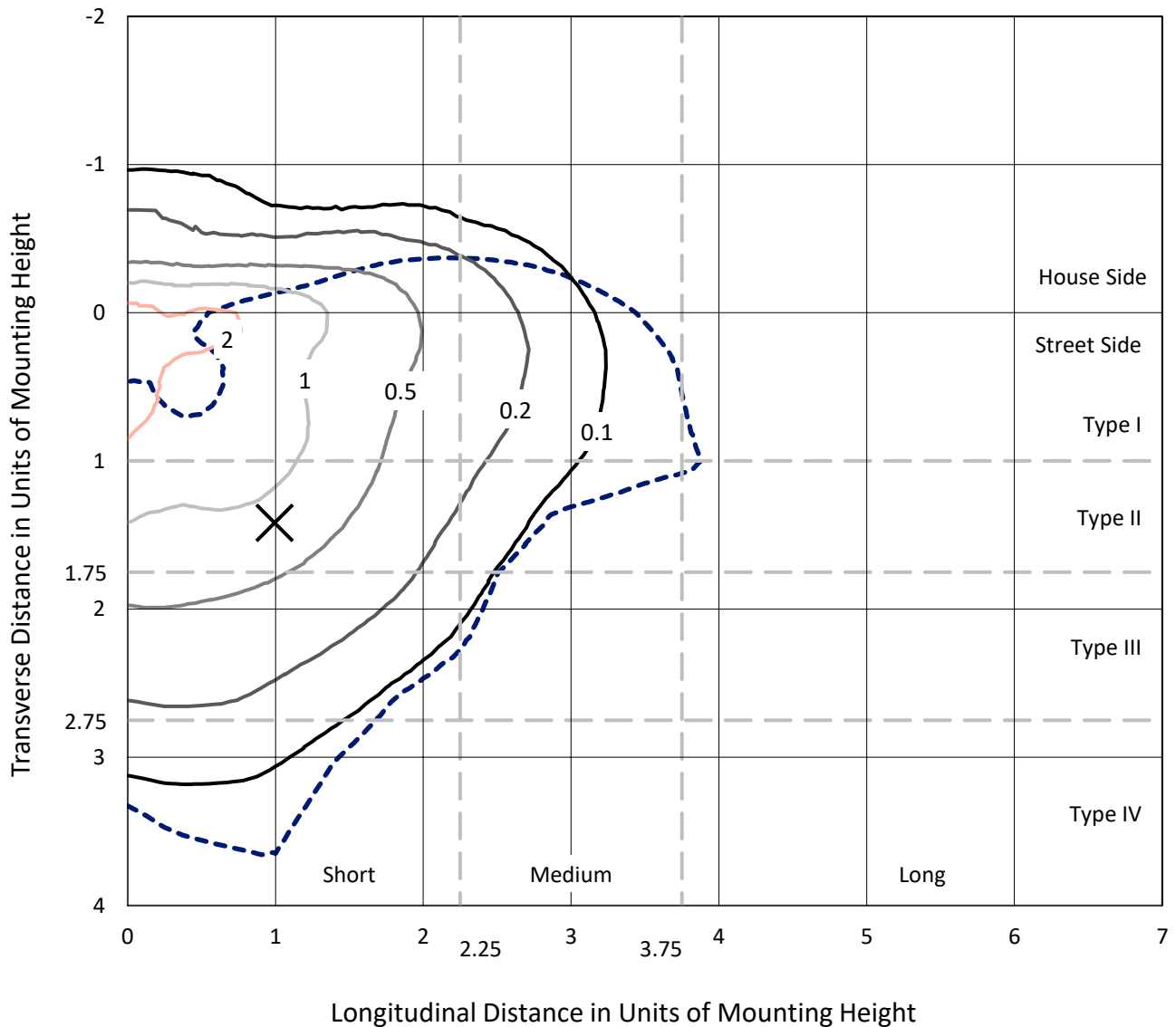
Lumens per Lamp: N/A  
Luminaire Lumens: 1870.4 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

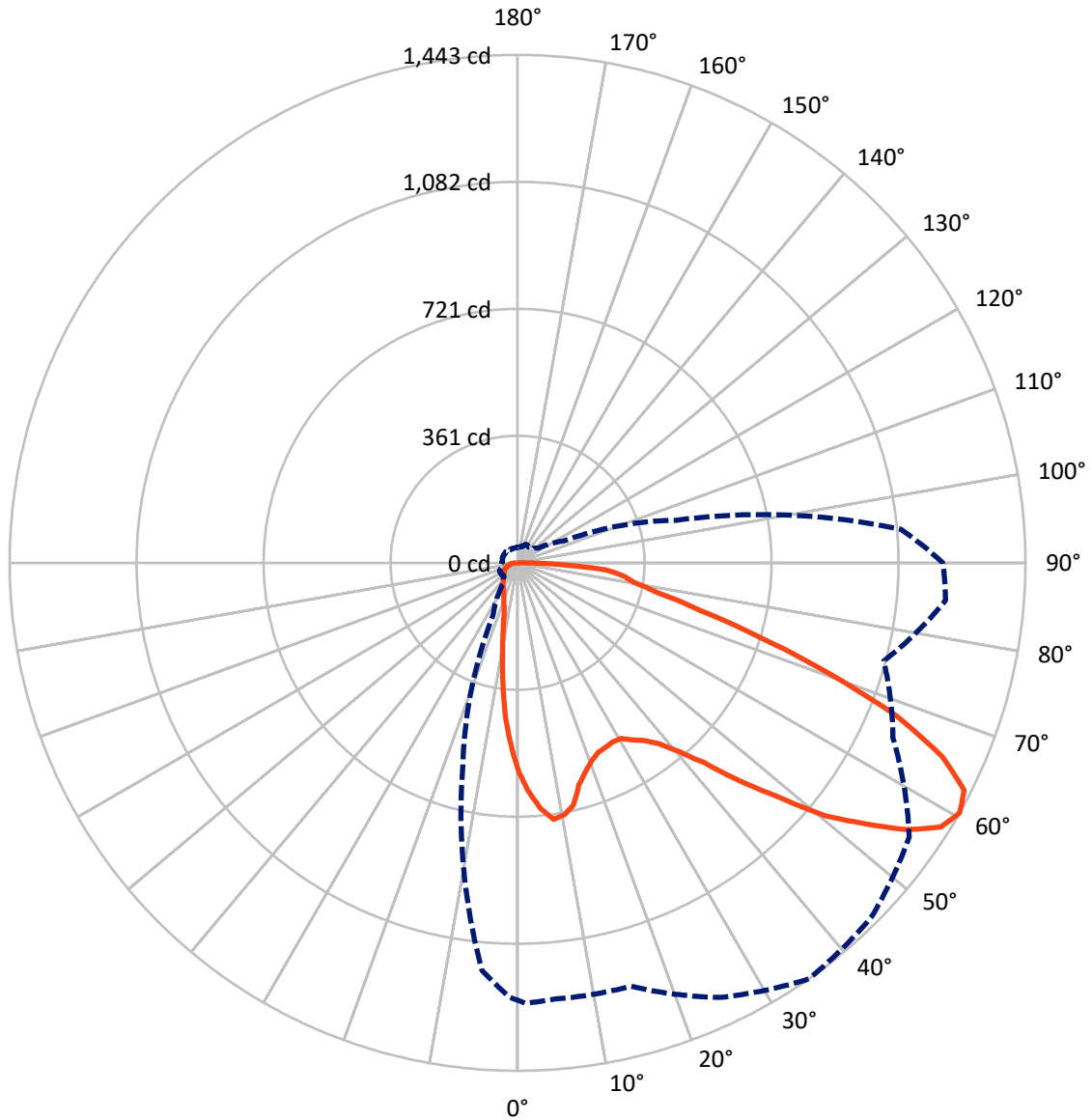
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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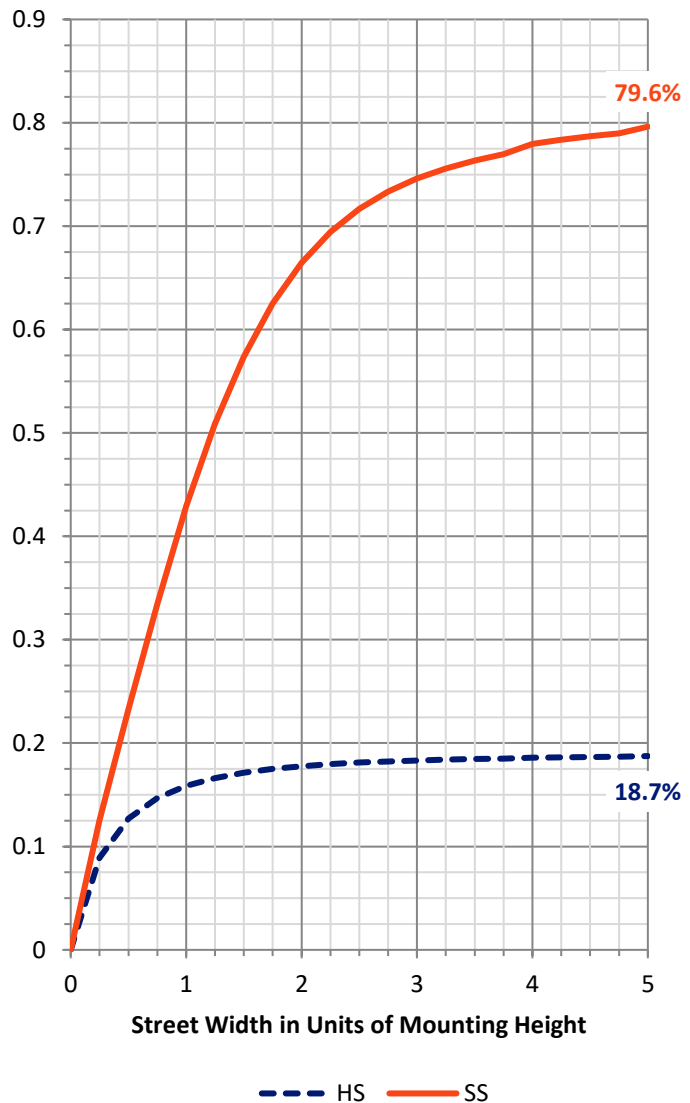
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	356.0	0.0	356.0
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	1514.5	0.0	1514.5
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	1870.4	0.0	1870.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	2.5
10°-20°	98.0	5.2
20°-30°	143.4	7.7
30°-40°	202.0	10.8
40°-50°	277.6	14.8
50°-60°	378.3	20.2
60°-70°	414.1	22.1
70°-80°	239.1	12.8
80°-90°	71.6	3.8
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°	1870.4	100.0
0°-180°	1870.4	100.0

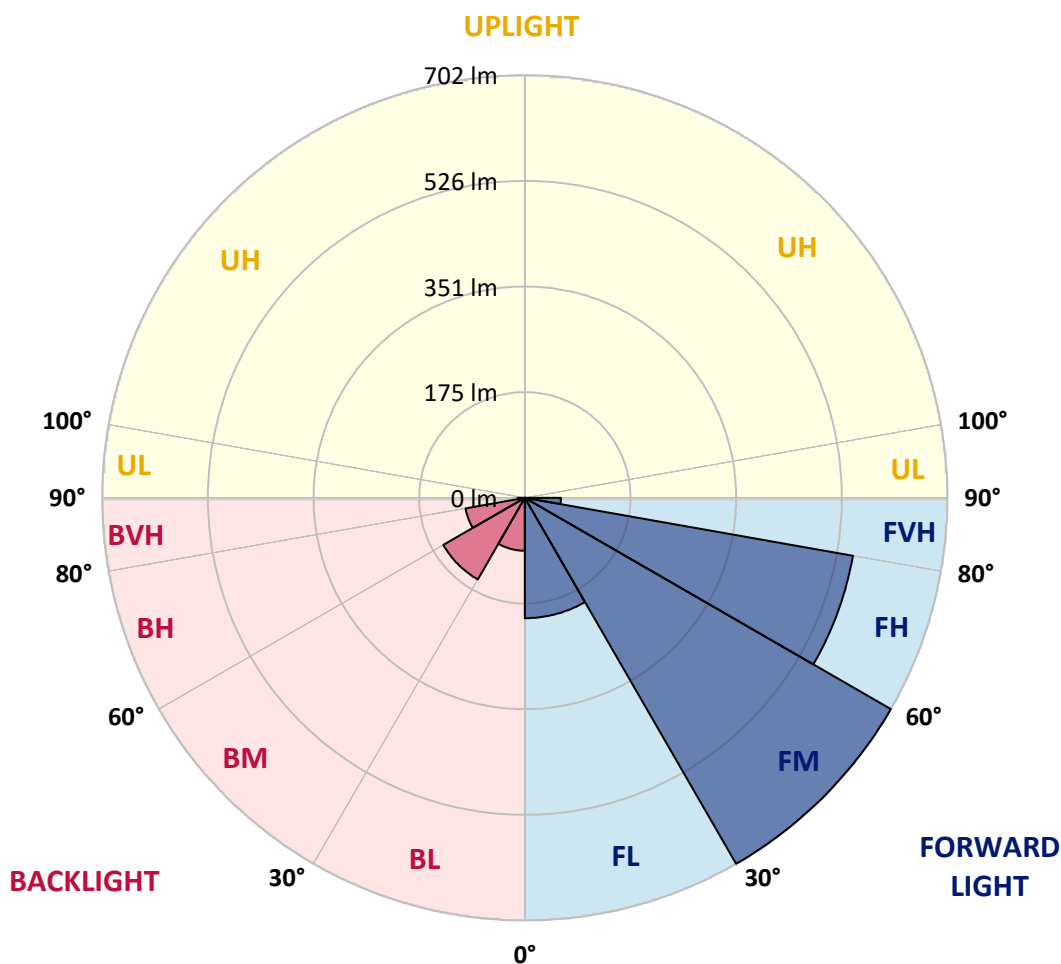


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	199.8	10.7			
FM (30°-60°)	701.6	37.5			
FH (60°-80°)	553.2	29.6			G0/660
FVH (80°-90°)	59.9	3.2			G1/100
BL (0°-30°)	87.9	4.7	B0/110		
BM (30°-60°)	156.4	8.4	B0/220		
BH (60°-80°)	100.0	5.3	B0/110		G0/110
BVH (80°-90°)	11.7	0.6			G1/100
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°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	639.7	637.2	639.7	648.9	651.3	655.5	655.5	649.7	638.9	633.9	625.6
5°	653.8	649.7	670.4	689.5	704.5	702.8	688.7	677.1	655.5	623.1	592.4
7.5°	625.6	629.8	644.7	694.5	729.3	736.0	713.6	690.3	643.9	599.1	557.6
10°	572.5	578.3	610.7	662.1	716.9	727.7	713.6	685.4	629.8	574.2	526.1
12.5°	546.8	560.1	579.2	641.4	680.4	706.1	699.5	681.2	619.0	553.4	507.0
15°	546.8	550.1	578.3	630.6	653.0	653.8	656.3	659.6	622.3	562.6	500.3
17.5°	564.2	573.4	597.4	629.8	633.9	624.0	624.0	638.1	628.9	588.3	524.4
20°	606.5	603.2	634.8	648.0	625.6	600.7	598.2	622.3	636.4	615.7	568.4
22.5°	648.9	663.8	689.5	659.6	618.2	585.0	581.6	611.5	658.8	663.0	619.0
25°	712.7	727.7	741.0	704.5	617.3	580.8	583.3	606.5	686.2	730.2	703.6
27.5°	781.6	790.7	809.8	753.4	637.2	575.8	578.3	613.2	711.9	774.2	770.0
30°	820.6	830.6	826.4	762.5	650.5	579.2	572.5	622.3	697.8	774.2	813.1
32.5°	858.8	853.0	850.5	777.5	667.1	599.9	583.3	641.4	706.1	786.6	868.7
35°	905.2	897.0	890.3	806.5	694.5	619.8	612.4	666.3	724.4	812.3	913.5
37.5°	956.7	956.7	924.3	828.1	726.9	652.2	643.9	702.0	753.4	828.1	974.9
40°	1017.3	1019.8	962.5	857.1	763.4	703.6	701.1	748.4	781.6	851.3	1033.9
42.5°	1062.1	1063.7	995.7	867.9	805.7	775.0	785.8	823.1	814.0	872.1	1038.0
45°	1092.8	1084.5	1018.9	898.6	852.1	882.0	885.3	896.1	856.3	884.5	1054.6
47.5°	1107.7	1106.0	1028.9	934.3	950.1	990.7	1009.8	994.9	895.3	871.2	1054.6
50°	1122.6	1108.5	1038.0	983.2	1045.5	1127.6	1123.5	1096.1	949.2	887.8	1038.8
52.5°	1132.6	1120.2	1056.3	1027.2	1136.7	1229.7	1246.3	1195.7	1012.3	918.5	1046.3
55°	1168.3	1158.3	1111.0	1087.0	1242.1	1337.5	1340.0	1269.5	1078.7	969.1	1095.3
57.5°	1211.4	1217.2	1186.5	1171.6	1322.6	1416.4	1407.2	1324.3	1135.1	1030.5	1151.7
60°	1242.1	1251.3	1243.8	1245.4	1362.4	1442.9	1422.2	1358.3	1176.6	1077.0	1220.6
62.5°	1225.5	1243.8	1274.5	1267.8	1364.1	1423.8	1394.8	1313.5	1181.6	1137.6	1272.8
65°	1179.9	1181.6	1241.3	1277.8	1289.4	1325.1	1286.9	1219.7	1130.1	1174.9	1265.4
67.5°	1062.9	1076.2	1130.1	1201.5	1152.5	1160.8	1157.5	1060.4	1052.1	1149.2	1208.1
70°	938.4	947.6	1006.5	1090.3	973.3	934.3	941.8	869.6	903.6	1069.5	1092.8
72.5°	775.8	781.6	848.8	922.7	780.8	711.1	728.5	669.6	717.7	935.9	921.8
75°	585.8	596.6	648.9	736.0	575.0	530.2	547.6	523.6	568.4	770.8	715.2
77.5°	416.5	408.2	473.0	575.8	432.3	405.7	407.4	411.6	459.7	649.7	513.6
80°	283.8	286.3	344.3	422.3	339.4	335.2	331.1	364.3	385.8	514.4	373.4
82.5°	168.4	168.4	232.3	300.4	268.0	302.0	282.9	312.8	302.0	378.4	244.8
85°	78.8	78.8	119.5	216.6	207.4	248.9	211.6	236.5	223.2	263.9	110.4
87.5°	13.3	11.6	24.1	106.2	85.5	97.1	38.2	126.1	140.2	184.2	27.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	616.5	610.7	599.1	584.1	571.7	555.9	550.9	540.2	525.2	523.6	516.9
5°	580.8	560.9	536.0	505.3	484.6	463.0	444.7	434.0	421.5	419.8	416.5
7.5°	541.8	516.9	475.4	438.9	403.3	369.2	352.6	331.9	317.8	307.0	302.0
10°	505.3	482.1	430.6	380.9	349.3	326.9	307.0	285.4	268.0	254.7	249.8
12.5°	481.3	453.9	398.3	351.0	327.7	302.0	279.6	256.4	234.0	216.6	207.4
15°	470.5	444.7	388.3	336.0	302.0	266.3	240.6	217.4	190.0	177.6	173.4
17.5°	496.2	458.0	385.0	318.6	270.5	229.8	198.3	173.4	153.5	141.1	136.1
20°	529.4	482.1	390.8	297.9	240.6	195.0	160.1	133.6	120.3	111.2	110.4
22.5°	571.7	517.8	399.9	282.9	207.4	156.8	125.3	109.5	100.4	99.6	97.9
25°	647.2	582.5	414.9	263.0	180.9	129.4	107.0	97.9	93.8	91.3	92.9
27.5°	711.9	624.8	425.7	250.6	170.1	122.0	103.7	93.8	89.6	88.8	89.6
30°	750.1	663.8	422.3	227.3	148.5	116.2	110.4	107.0	98.7	92.1	92.1
32.5°	784.9	688.7	421.5	206.6	127.0	97.1	92.1	89.6	94.6	97.9	95.4
35°	833.1	727.7	419.0	195.0	117.8	89.6	81.3	74.7	71.4	69.7	72.2
37.5°	884.5	754.2	412.4	193.3	112.8	85.5	78.8	72.2	68.9	67.2	66.4
40°	940.9	782.4	404.9	185.0	110.4	83.0	76.3	70.5	66.4	63.9	63.1
42.5°	977.4	804.9	397.4	180.9	105.4	81.3	73.8	68.9	64.7	61.4	61.4
45°	998.2	831.4	390.0	176.7	99.6	82.1	73.8	67.2	62.2	60.6	58.9
47.5°	1007.3	851.3	387.5	170.1	94.6	78.8	72.2	65.5	60.6	57.3	56.4
50°	1031.4	893.6	396.6	165.1	88.8	75.5	76.3	64.7	59.7	55.6	54.8
52.5°	1045.5	927.7	416.5	157.7	84.6	71.4	74.7	63.1	57.3	53.1	53.1
55°	1096.9	984.1	438.1	151.8	79.7	65.5	68.9	59.7	53.1	50.6	50.6
57.5°	1162.5	1043.8	456.4	149.4	76.3	61.4	61.4	58.1	50.6	47.3	46.5
60°	1208.1	1092.8	467.1	147.7	73.0	57.3	54.8	58.1	48.1	44.8	44.0
62.5°	1213.1	1064.6	456.4	146.9	72.2	53.1	49.8	55.6	45.6	42.3	40.7
65°	1181.6	1007.3	426.5	143.5	71.4	49.0	46.5	48.1	42.3	39.8	38.2
67.5°	1118.5	914.4	383.3	141.9	70.5	45.6	42.3	41.5	39.0	36.5	34.8
70°	971.6	793.2	332.7	134.4	68.9	43.1	38.2	37.3	34.8	33.2	32.4
72.5°	815.6	648.9	274.6	124.5	65.5	39.0	34.8	33.2	32.4	29.9	29.0
75°	624.8	499.5	219.9	110.4	57.3	34.8	30.7	29.0	28.2	26.6	25.7
77.5°	438.9	371.7	162.6	89.6	48.1	31.5	27.4	25.7	24.9	22.4	22.4
80°	297.9	260.5	110.4	62.2	37.3	25.7	24.1	22.4	20.7	19.1	19.1
82.5°	185.0	182.5	79.7	40.7	27.4	20.7	19.1	19.1	16.6	14.9	14.9
85°	84.6	112.0	55.6	28.2	20.7	15.8	15.8	14.9	13.3	10.8	10.8
87.5°	26.6	37.3	29.0	12.4	11.6	9.1	9.1	8.3	8.3	6.6	6.6
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	523.6	522.7	522.7	519.4	527.7	527.7	532.7	528.5	531.0	531.9	538.5
5°	415.7	422.3	427.3	437.3	443.1	445.6	445.6	452.2	449.7	454.7	464.7
7.5°	304.5	312.8	327.7	340.2	350.2	353.5	352.6	354.3	356.8	351.0	352.6
10°	246.4	240.6	245.6	257.2	266.3	277.1	268.8	268.0	270.5	268.0	273.0
12.5°	205.8	199.1	195.0	195.0	201.6	206.6	204.1	208.3	217.4	219.9	225.7
15°	166.8	161.0	157.7	153.5	160.1	161.8	164.3	170.1	176.7	180.1	186.7
17.5°	133.6	133.6	133.6	130.3	132.8	135.2	136.1	143.5	144.4	147.7	150.2
20°	109.5	112.0	116.2	117.8	120.3	120.3	118.7	122.8	119.5	122.0	123.6
22.5°	98.7	102.1	103.7	104.5	107.9	108.7	104.5	105.4	106.2	103.7	104.5
25°	92.9	94.6	92.9	93.8	94.6	92.9	93.8	95.4	94.6	96.3	95.4
27.5°	90.4	88.8	88.0	87.1	87.1	85.5	86.3	86.3	88.0	88.8	88.8
30°	90.4	88.0	84.6	82.1	82.1	79.7	81.3	83.0	83.8	85.5	85.5
32.5°	92.9	88.0	82.1	79.7	77.2	75.5	77.2	79.7	83.0	83.8	84.6
35°	73.8	76.3	75.5	72.2	71.4	71.4	70.5	70.5	68.0	68.0	67.2
37.5°	66.4	65.5	67.2	68.0	68.9	66.4	66.4	63.1	62.2	63.1	63.1
40°	62.2	62.2	62.2	64.7	65.5	63.9	61.4	59.7	59.7	59.7	60.6
42.5°	60.6	58.9	58.1	59.7	62.2	60.6	58.1	57.3	57.3	58.1	58.1
45°	58.1	57.3	56.4	55.6	58.9	56.4	55.6	54.8	54.8	54.8	55.6
47.5°	55.6	54.8	53.1	53.1	53.9	53.1	52.3	52.3	52.3	53.9	53.9
50°	53.9	53.1	51.4	51.4	51.4	51.4	50.6	50.6	50.6	51.4	52.3
52.5°	51.4	50.6	49.8	49.0	49.0	49.0	49.0	49.0	49.0	49.8	50.6
55°	49.0	48.1	47.3	47.3	48.1	48.1	47.3	48.1	47.3	48.1	49.0
57.5°	46.5	45.6	44.8	45.6	46.5	45.6	45.6	45.6	45.6	45.6	46.5
60°	43.1	43.1	43.1	43.1	44.8	44.8	44.8	44.8	43.1	44.0	44.8
62.5°	41.5	40.7	40.7	41.5	42.3	42.3	43.1	42.3	41.5	42.3	42.3
65°	38.2	38.2	38.2	39.0	39.0	39.8	39.8	39.8	39.0	39.8	39.8
67.5°	35.7	35.7	35.7	35.7	37.3	37.3	37.3	37.3	36.5	36.5	37.3
70°	31.5	32.4	31.5	33.2	34.8	34.0	34.8	34.8	34.0	33.2	34.8
72.5°	29.0	29.0	29.0	29.0	31.5	31.5	31.5	32.4	31.5	30.7	31.5
75°	25.7	25.7	25.7	26.6	28.2	28.2	28.2	28.2	28.2	27.4	27.4
77.5°	22.4	23.2	22.4	23.2	24.9	24.1	24.9	25.7	24.9	24.1	24.1
80°	19.1	19.1	19.1	19.9	20.7	20.7	20.7	21.6	20.7	19.9	19.9
82.5°	14.9	14.9	15.8	15.8	16.6	16.6	16.6	17.4	16.6	15.8	15.8
85°	11.6	11.6	11.6	12.4	12.4	13.3	13.3	14.1	14.1	13.3	13.3
87.5°	7.5	6.6	7.5	7.5	8.3	8.3	7.5	6.6	7.5	6.6	5.8
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	545.1	560.1	570.9	578.3	589.1	609.9	618.2	633.1	637.2	639.7
5°	468.8	484.6	507.8	524.4	543.5	582.5	612.4	634.8	644.7	653.8
7.5°	367.6	388.3	412.4	434.0	465.5	513.6	552.6	599.1	616.5	625.6
10°	287.1	306.2	332.7	359.3	403.3	443.9	499.5	541.8	565.9	572.5
12.5°	242.3	264.7	296.2	328.6	356.0	402.4	458.8	520.2	542.7	546.8
15°	205.8	236.5	268.8	302.0	333.6	374.2	434.8	509.5	542.7	546.8
17.5°	170.1	197.5	235.6	271.3	307.8	363.4	438.9	518.6	551.8	564.2
20°	135.2	161.8	191.7	236.5	286.3	345.2	448.1	549.3	593.3	606.5
22.5°	112.0	123.6	152.7	195.8	254.7	332.7	457.2	597.4	643.9	648.9
25°	97.9	106.2	124.5	165.1	229.8	324.4	478.8	653.0	712.7	712.7
27.5°	91.3	94.6	107.0	143.5	212.4	317.0	500.3	714.4	770.0	781.6
30°	89.6	97.9	104.5	127.8	193.3	296.2	520.2	762.5	819.8	820.6
32.5°	88.0	86.3	91.3	111.2	170.1	274.6	536.8	811.5	856.3	858.8
35°	68.9	72.2	80.5	97.9	152.7	258.9	545.1	838.0	902.8	905.2
37.5°	64.7	68.9	75.5	90.4	141.1	245.6	547.6	889.5	951.7	956.7
40°	63.1	66.4	71.4	83.8	131.9	229.0	552.6	942.6	1023.9	1017.3
42.5°	59.7	63.9	68.9	80.5	124.5	216.6	553.4	971.6	1062.1	1062.1
45°	58.9	61.4	67.2	80.5	116.2	205.8	540.2	1000.7	1106.0	1092.8
47.5°	55.6	60.6	65.5	78.0	106.2	195.0	524.4	1015.6	1111.9	1107.7
50°	54.8	59.7	68.0	73.8	100.4	190.0	521.1	1052.9	1123.5	1122.6
52.5°	53.1	58.1	70.5	70.5	92.9	183.4	536.8	1069.5	1126.0	1132.6
55°	50.6	58.1	65.5	64.7	86.3	175.1	554.3	1112.7	1169.9	1168.3
57.5°	49.0	56.4	62.2	58.9	78.8	169.3	580.0	1154.2	1223.0	1211.4
60°	46.5	56.4	55.6	54.8	73.0	164.3	601.6	1162.5	1234.7	1242.1
62.5°	44.8	58.9	49.0	50.6	68.0	161.8	592.4	1100.2	1218.9	1225.5
65°	43.1	50.6	44.8	46.5	66.4	156.8	556.8	1025.6	1150.9	1179.9
67.5°	39.8	41.5	41.5	43.1	64.7	145.2	483.7	891.1	1047.1	1062.9
70°	36.5	37.3	37.3	39.8	63.1	131.9	399.1	770.8	908.6	938.4
72.5°	33.2	33.2	33.2	36.5	58.1	121.1	328.6	592.4	755.1	775.8
75°	29.0	29.0	29.0	32.4	52.3	110.4	258.9	440.6	555.9	585.8
77.5°	25.7	25.7	24.9	29.0	45.6	89.6	186.7	311.2	391.6	416.5
80°	21.6	20.7	20.7	23.2	35.7	64.7	120.3	219.9	273.0	283.8
82.5°	17.4	16.6	15.8	17.4	25.7	40.7	74.7	153.5	175.1	168.4
85°	16.6	17.4	14.1	13.3	18.3	26.6	47.3	94.6	78.8	78.8
87.5°	6.6	5.8	5.8	5.0	9.1	10.0	20.7	17.4	13.3	13.3
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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