

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: P677459

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677459  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-827-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, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1445.2 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

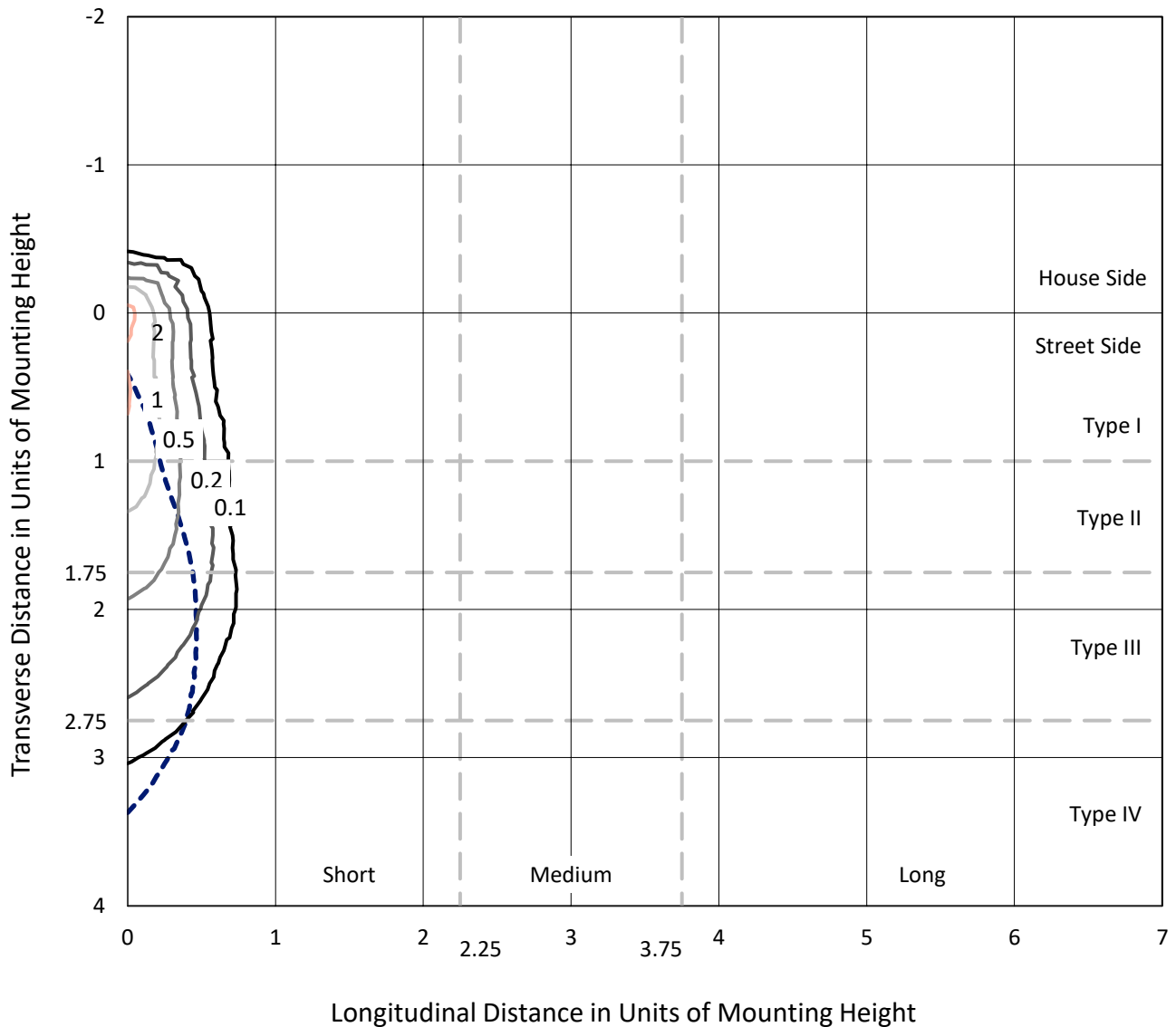
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

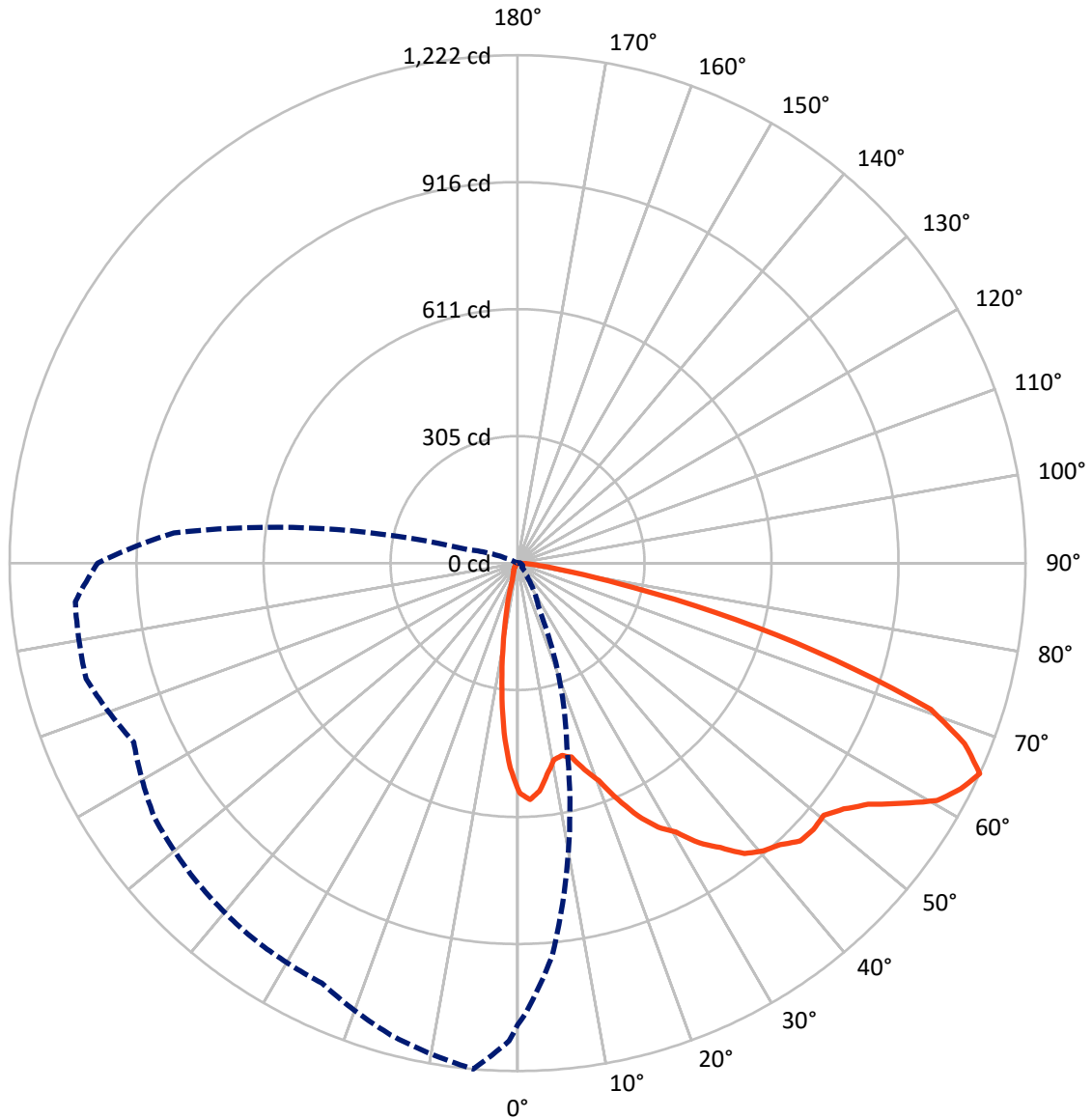
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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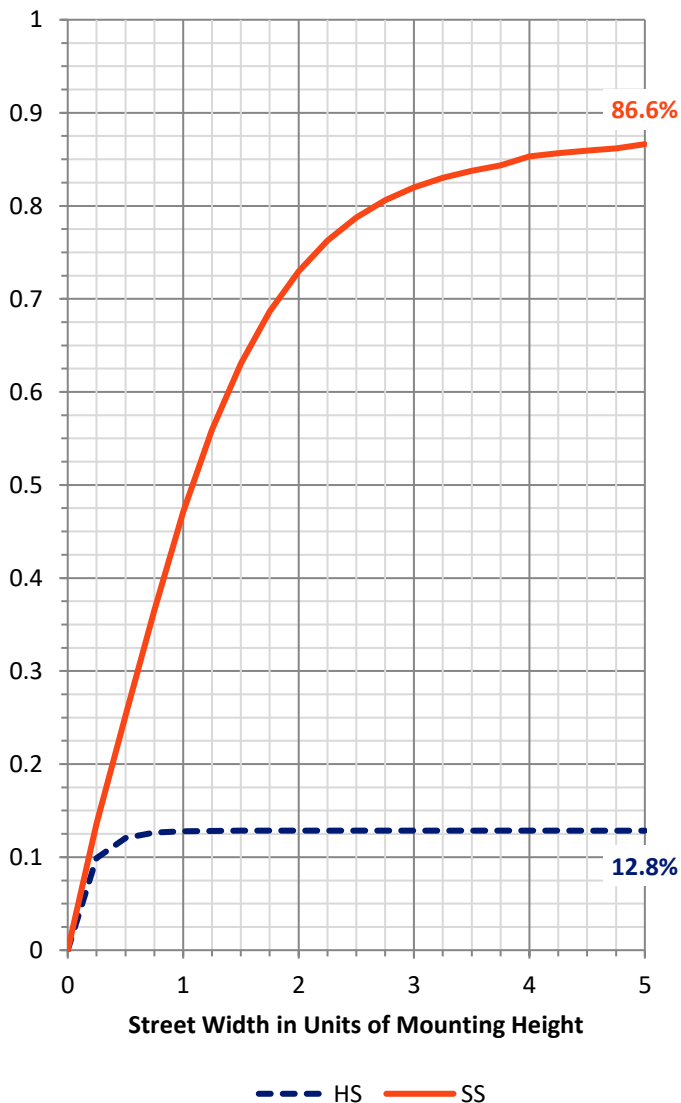
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	187.6	0.0	187.6
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	1257.6	0.0	1257.6
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	1445.2	0.0	1445.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	2.9
10°-20°	81.0	5.6
20°-30°	112.9	7.8
30°-40°	160.4	11.1
40°-50°	222.4	15.4
50°-60°	303.0	21.0
60°-70°	333.2	23.1
70°-80°	163.7	11.3
80°-90°	26.7	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°	1445.2	100.0
0°-180°	1445.2	100.0



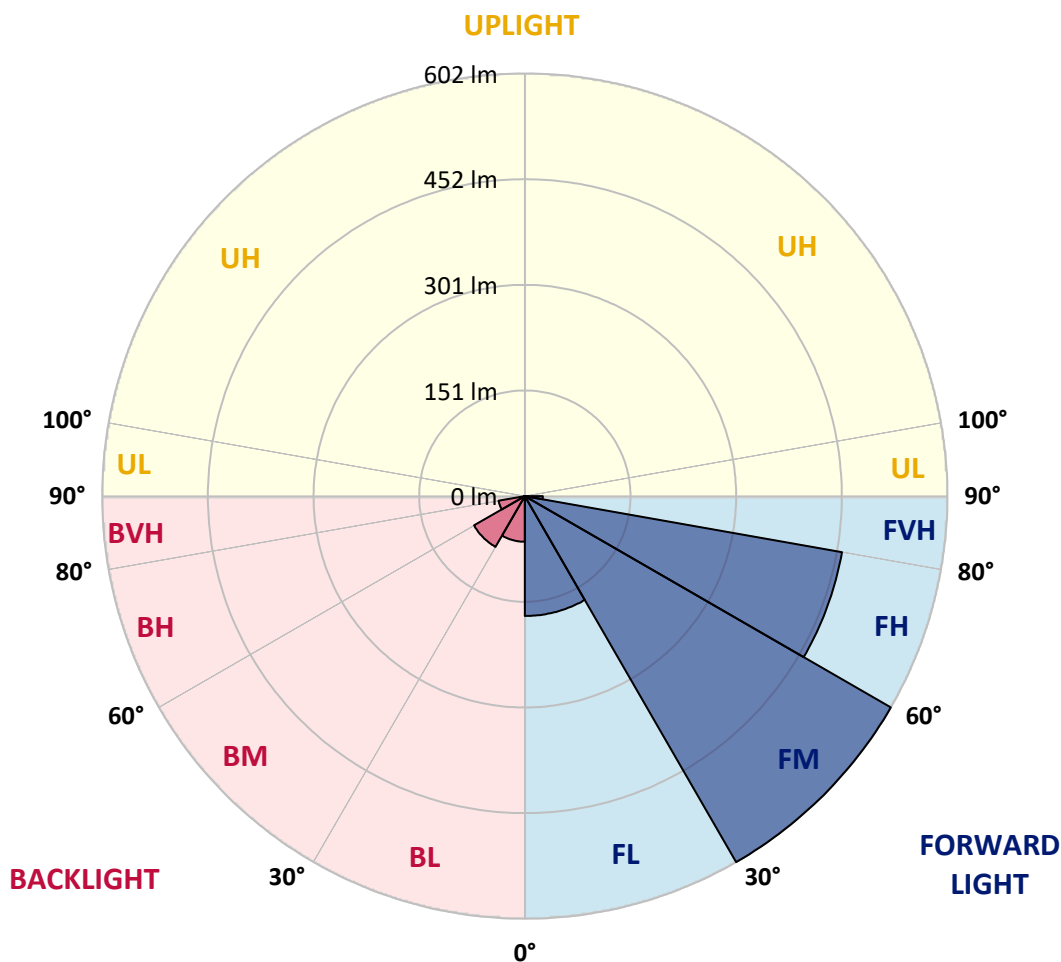
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.8	11.8			
FM (30°-60°)	602.3	41.7			
FH (60°-80°)	459.0	31.8			G0/660
FVH (80°-90°)	25.5	1.8			G1/100
BL (0°-30°)	65.0	4.5	B0/110		
BM (30°-60°)	83.5	5.8	B0/220		
BH (60°-80°)	37.9	2.6	B0/110		G0/110
BVH (80°-90°)	1.2	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°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	563.8	570.4	564.2	542.4	538.5	528.0	512.0	510.8	494.1	496.0	487.1
5°	529.9	536.5	523.3	494.5	467.6	446.1	433.3	410.3	405.2	393.9	393.9
7.5°	495.2	494.8	472.2	448.1	408.0	368.6	350.7	317.6	298.1	287.6	277.4
10°	466.4	460.2	446.1	396.3	352.6	311.7	289.5	267.7	247.4	229.9	212.4
12.5°	446.1	450.0	427.8	373.7	317.2	288.7	265.0	242.0	217.8	197.9	178.5
15°	456.7	450.4	424.3	368.6	311.3	272.4	240.8	212.7	185.9	159.8	144.9
17.5°	489.4	473.4	442.6	368.6	299.2	247.4	209.2	176.1	147.3	123.9	105.6
20°	533.4	515.1	482.0	382.2	290.3	229.1	176.9	135.2	105.2	83.4	69.4
22.5°	578.6	564.2	514.3	387.7	279.8	204.6	139.5	97.8	70.1	56.1	49.1
25°	632.8	612.5	558.0	409.5	264.2	180.8	109.9	68.2	52.2	44.8	40.5
27.5°	676.0	672.5	598.9	422.8	252.5	161.3	86.9	54.2	43.3	37.8	35.1
30°	730.6	711.5	648.8	449.3	239.2	139.1	72.5	48.7	39.7	33.9	32.0
32.5°	763.3	754.3	674.9	464.1	224.4	120.8	62.3	42.9	36.2	32.0	30.0
35°	810.8	792.9	712.3	473.4	216.6	110.3	56.1	39.0	30.4	26.1	23.8
37.5°	863.8	857.2	757.1	473.0	205.3	104.0	51.8	36.2	28.8	24.2	21.4
40°	918.0	891.1	784.4	483.9	199.5	99.4	48.7	34.7	27.3	23.0	19.5
42.5°	958.5	927.7	815.9	480.0	192.5	91.2	47.5	32.3	26.1	21.0	17.9
45°	969.4	958.5	844.4	478.9	187.4	84.6	45.6	32.0	25.3	19.9	16.8
47.5°	990.5	983.1	879.4	480.8	183.5	79.5	40.9	32.7	24.2	18.7	16.0
50°	999.8	986.6	907.9	485.5	174.6	73.3	36.6	34.3	23.8	18.3	15.2
52.5°	1038.4	1026.7	946.8	498.7	167.2	65.1	32.3	32.7	24.5	17.1	14.4
55°	1076.2	1062.9	1006.8	529.1	156.6	58.4	27.7	28.8	23.4	15.6	12.9
57.5°	1128.0	1106.2	1047.0	541.6	147.3	49.5	24.5	23.8	21.8	14.0	11.3
60°	1135.8	1144.8	1041.1	533.8	137.5	43.6	21.4	18.3	23.4	12.5	9.7
62.5°	1161.9	1124.5	1013.9	515.9	130.5	40.1	19.1	15.2	20.3	10.9	8.2
65°	1111.7	1084.0	949.9	458.2	121.6	40.5	16.8	12.5	12.9	9.0	6.6
67.5°	1038.0	1016.2	844.0	395.5	112.6	39.7	14.8	10.9	9.7	7.8	5.8
70°	911.0	863.8	716.9	321.1	99.4	37.0	12.5	9.7	8.2	6.2	4.3
72.5°	662.8	643.7	514.3	248.2	89.2	33.5	11.7	8.2	7.0	4.7	3.5
75°	446.1	414.6	324.6	162.9	71.7	29.2	9.7	7.4	5.5	3.5	2.7
77.5°	235.7	222.9	183.9	77.5	39.7	13.6	5.5	4.3	3.1	2.7	1.6
80°	102.1	90.8	79.5	31.6	14.0	6.2	3.5	2.3	1.9	1.6	0.8
82.5°	52.2	49.9	41.3	13.6	8.2	4.7	1.9	1.6	1.2	0.8	0.4
85°	25.7	26.5	21.8	4.3	4.7	2.7	0.4	0.4	0.0	0.0	0.0
87.5°	1.9	1.9	1.6	0.8	1.2	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°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	483.5	489.0	479.7	485.5	482.8	483.9	485.1	482.0	482.8	493.7	494.1
5°	387.3	397.8	393.9	399.4	408.7	404.1	408.3	407.6	408.3	409.9	416.9
7.5°	276.3	273.1	280.5	295.0	311.7	321.8	316.8	314.1	312.5	308.6	313.3
10°	208.5	206.9	205.0	209.2	220.1	231.4	237.7	227.2	221.3	213.9	211.2
12.5°	173.0	163.3	157.8	151.2	154.3	164.4	164.8	154.7	145.3	141.4	145.7
15°	136.4	129.8	120.0	110.7	106.0	113.8	107.2	97.4	85.3	83.8	83.4
17.5°	97.4	93.5	86.5	82.6	77.1	75.2	68.2	53.4	44.8	42.5	43.3
20°	66.2	63.1	62.7	59.2	56.9	55.3	44.0	34.3	31.6	32.0	32.3
22.5°	49.1	47.5	45.6	45.2	43.3	41.3	32.3	28.8	26.9	26.9	28.1
25°	40.1	39.4	37.4	36.6	35.8	33.1	27.3	24.5	23.8	23.0	24.2
27.5°	34.3	33.9	32.7	31.6	30.8	28.1	23.8	21.4	20.7	20.7	20.7
30°	30.8	30.8	29.2	26.9	26.9	23.8	20.3	18.7	17.9	17.9	17.5
32.5°	28.8	28.1	26.1	24.5	23.4	20.3	17.9	16.4	15.2	15.2	15.6
35°	23.4	23.4	23.0	21.8	20.3	17.1	15.2	13.6	12.9	12.5	12.9
37.5°	20.7	19.5	17.9	18.3	17.5	14.8	12.9	11.7	10.5	10.5	10.5
40°	18.7	17.5	16.0	14.8	14.4	13.2	11.3	9.4	8.2	7.8	7.8
42.5°	16.8	16.0	13.6	11.7	11.3	11.3	8.6	7.0	5.8	5.8	5.8
45°	15.6	14.4	12.5	10.1	8.2	8.6	7.0	5.1	4.3	3.9	3.9
47.5°	14.8	13.6	10.9	8.6	6.2	6.2	5.1	3.5	2.7	2.3	2.3
50°	13.6	12.5	9.7	7.0	4.7	3.9	3.1	1.9	1.2	0.8	0.8
52.5°	12.9	11.7	8.6	5.8	3.9	2.7	1.9	0.4	0.0	0.0	0.0
55°	11.7	10.1	7.4	4.7	3.1	1.6	0.4	0.0	0.0	0.0	0.0
57.5°	10.1	9.0	5.8	3.5	1.9	0.4	0.0	0.0	0.0	0.0	0.0
60°	8.6	7.4	4.7	2.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7.0	6.2	3.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5.8	4.7	2.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5.1	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3.9	2.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2.7	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.2	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°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	495.6	507.3	518.2	521.3	529.9	553.7	553.7	565.0	585.2	592.6	594.2
5°	418.1	430.6	432.9	457.1	468.4	492.5	508.5	546.7	569.7	584.1	593.0
7.5°	317.9	322.2	331.2	353.8	376.0	405.2	435.6	484.3	524.8	541.2	571.6
10°	218.6	231.4	250.9	271.2	305.9	338.2	377.6	423.5	473.4	493.7	519.8
12.5°	147.3	165.2	196.4	225.2	257.2	289.9	327.3	388.9	445.4	473.4	499.5
15°	86.1	107.9	134.8	181.6	224.0	260.7	298.1	360.4	429.0	465.2	497.2
17.5°	43.6	50.3	72.5	113.0	169.1	229.1	284.8	364.3	441.5	485.9	512.4
20°	32.7	34.7	40.9	60.0	115.7	189.4	272.4	370.2	476.1	530.3	544.7
22.5°	28.4	30.0	32.7	39.0	65.1	144.9	254.8	384.6	523.3	574.3	604.7
25°	24.2	25.7	28.1	32.0	41.7	98.6	233.4	399.8	565.4	629.7	658.1
27.5°	21.0	22.2	24.5	27.7	33.9	62.7	196.4	420.0	629.7	696.7	704.1
30°	17.9	19.1	21.0	24.5	28.8	44.4	144.2	422.8	665.1	725.9	746.6
32.5°	15.6	16.0	18.3	21.4	24.2	35.1	101.3	425.5	691.2	763.7	768.0
35°	12.9	13.6	16.0	17.9	21.0	27.7	76.8	411.9	725.1	802.7	801.5
37.5°	10.5	11.7	13.2	14.8	17.1	23.4	61.2	386.5	767.6	863.1	826.4
40°	8.2	9.4	10.9	12.9	14.4	21.0	46.0	348.3	812.0	892.7	853.7
42.5°	5.8	6.6	8.2	10.1	12.9	17.5	33.1	303.1	829.5	927.4	886.4
45°	4.3	5.1	6.2	8.6	13.2	14.0	23.0	261.8	848.3	942.5	879.0
47.5°	2.3	3.1	4.7	7.4	11.7	10.5	16.4	224.8	869.7	956.2	884.9
50°	0.8	1.2	2.7	7.8	9.4	8.2	12.9	205.0	890.7	958.9	896.6
52.5°	0.0	0.0	1.6	8.2	7.0	6.2	11.3	197.2	885.3	967.5	889.2
55°	0.0	0.0	0.4	3.5	3.9	4.7	9.4	196.8	923.8	970.2	929.7
57.5°	0.0	0.0	0.0	1.2	2.3	3.9	8.2	184.3	948.4	1038.0	984.2
60°	0.0	0.0	0.0	0.4	1.6	2.7	6.2	173.4	973.3	1068.4	1042.7
62.5°	0.0	0.0	0.0	0.0	0.4	1.2	4.3	156.6	923.1	1066.1	1099.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	123.9	830.3	1010.3	1068.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	85.7	727.1	940.2	1010.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.8	586.8	824.5	857.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	418.9	654.6	703.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	259.1	478.5	538.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	167.9	362.4	408.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	89.6	227.2	264.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	137.9	159.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	83.8	95.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	17.1
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°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	595.0	606.3	610.6	603.9	604.7	591.1	589.1	570.0	562.3	563.8
5°	622.3	638.6	647.6	640.2	623.4	597.3	573.6	551.0	536.9	529.9
7.5°	616.0	634.3	645.6	652.7	633.6	591.5	555.2	512.8	494.8	495.2
10°	581.7	619.9	642.9	633.9	625.0	582.9	526.8	480.8	464.8	466.4
12.5°	554.1	596.5	610.2	617.2	598.9	565.4	527.6	475.0	457.1	446.1
15°	536.9	568.5	569.3	580.2	572.8	572.8	535.8	484.3	468.7	456.7
17.5°	536.9	543.9	543.2	547.1	559.5	574.3	556.4	522.1	491.3	489.4
20°	549.0	527.2	522.1	523.7	534.2	578.2	602.0	559.1	539.7	533.4
22.5°	577.1	529.1	498.4	492.9	525.2	577.8	631.2	617.6	583.7	578.6
25°	615.6	525.6	492.1	485.1	509.7	591.9	671.4	674.1	643.3	632.8
27.5°	652.3	541.2	491.3	489.8	522.1	588.8	699.0	719.3	684.6	676.0
30°	664.7	556.8	505.8	485.1	526.8	600.1	698.2	751.2	728.6	730.6
32.5°	679.5	572.4	507.3	499.1	546.7	618.4	720.4	802.7	786.3	763.3
35°	701.4	593.4	522.1	514.7	560.7	634.7	725.1	840.5	837.7	810.8
37.5°	720.1	614.1	552.9	554.1	603.6	661.2	745.8	886.8	882.2	863.8
40°	733.3	642.9	600.8	603.9	641.0	690.8	782.4	910.2	944.9	918.0
42.5°	735.3	668.6	655.8	680.7	715.4	736.8	797.2	926.2	976.1	958.5
45°	742.7	709.5	745.4	763.7	792.1	777.3	796.4	953.5	978.4	969.4
47.5°	771.5	784.0	829.2	884.9	895.0	846.3	815.1	957.7	991.6	990.5
50°	801.5	863.8	927.4	964.4	977.2	893.8	832.7	954.2	1009.2	999.8
52.5°	835.0	933.2	1024.8	1070.3	1063.3	946.4	852.5	982.7	1041.5	1038.4
55°	856.0	964.4	1087.5	1151.0	1145.6	1005.3	915.7	1023.6	1084.0	1076.2
57.5°	911.8	1015.0	1149.8	1179.4	1193.9	1082.4	959.7	1090.6	1119.4	1128.0
60°	957.7	1048.1	1166.2	1209.1	1214.1	1128.4	1036.8	1159.6	1164.6	1135.8
62.5°	1025.2	1061.0	1131.5	1170.1	1196.2	1154.5	1106.2	1196.6	1163.9	1161.9
65°	1074.6	1018.9	1066.8	1088.3	1105.0	1114.8	1175.9	1221.9	1149.4	1111.7
67.5°	1047.0	939.4	930.5	931.6	936.7	995.5	1152.6	1160.0	1069.2	1038.0
70°	921.5	770.7	758.6	768.0	742.7	813.6	1057.9	1054.4	943.3	911.0
72.5°	745.4	561.9	541.2	554.1	559.9	635.1	889.9	799.5	688.1	662.8
75°	592.3	411.9	347.6	378.7	398.6	462.5	695.1	543.2	480.4	446.1
77.5°	465.2	311.7	270.4	257.9	276.3	336.3	505.8	285.2	251.7	235.7
80°	295.0	229.1	248.6	230.7	238.5	240.0	263.4	129.8	103.3	102.1
82.5°	177.7	156.6	186.2	102.5	186.6	166.8	109.5	58.8	52.2	52.2
85°	125.9	97.0	64.3	41.7	83.0	91.6	42.5	30.4	26.5	25.7
87.5°	63.1	30.0	14.4	9.4	10.5	17.1	5.1	2.3	2.3	1.9
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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