

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631056

Luminaire Tested: GWS-SA1E-830-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

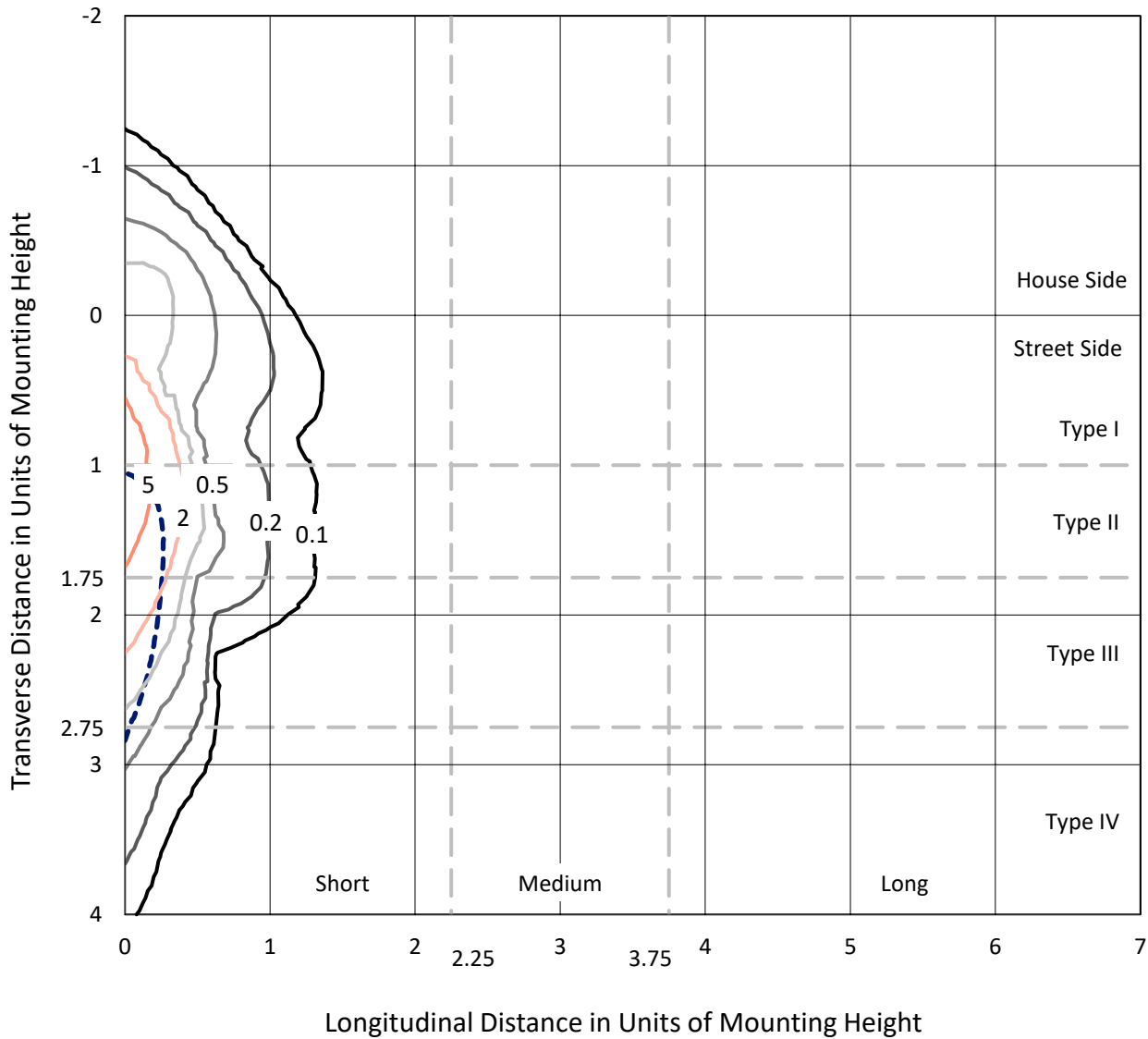
Lumens per Lamp: N/A  
Luminaire Lumens: 3644.7 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

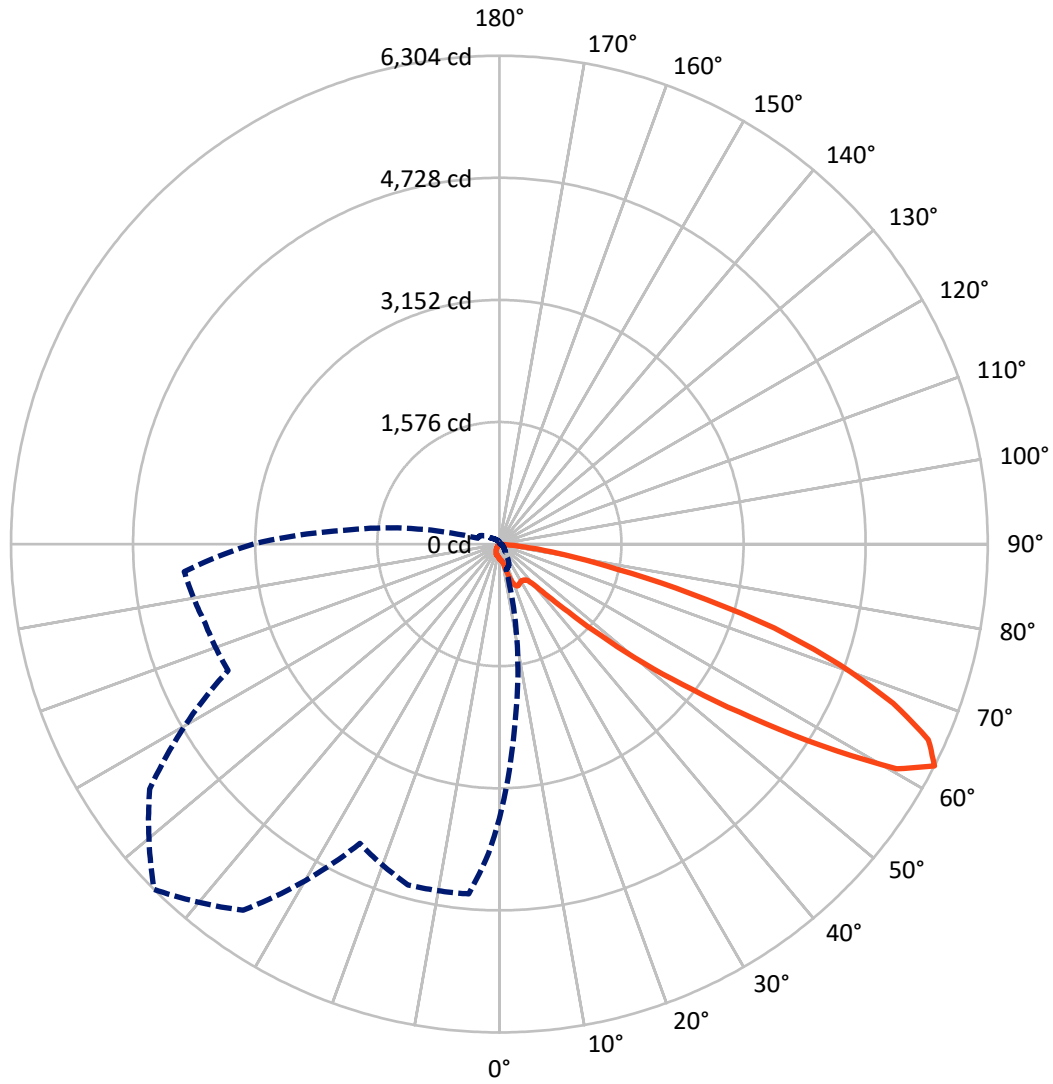
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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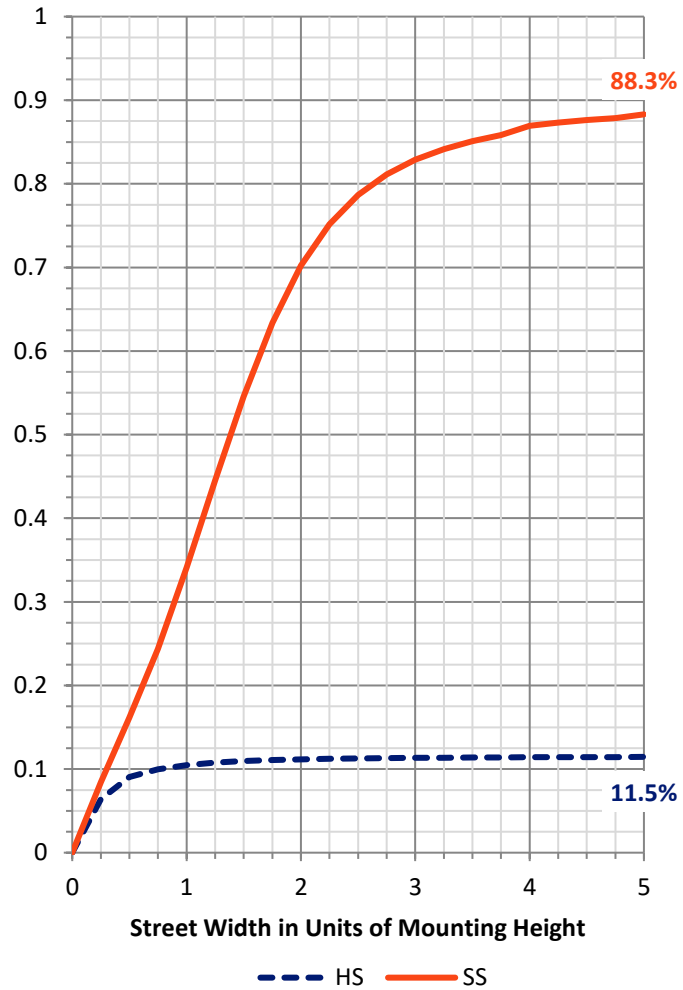
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	423.5	0.0	423.5
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	3221.2	0.0	3221.2
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	3644.7	0.0	3644.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.3	0.4
10°-20°	55.9	1.5
20°-30°	126.4	3.5
30°-40°	217.7	6.0
40°-50°	410.7	11.3
50°-60°	917.0	25.2
60°-70°	1226.5	33.7
70°-80°	615.1	16.9
80°-90°	59.0	1.6
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°	3644.7	100.0
0°-180°	3644.7	100.0

**Coefficient of Utilization**



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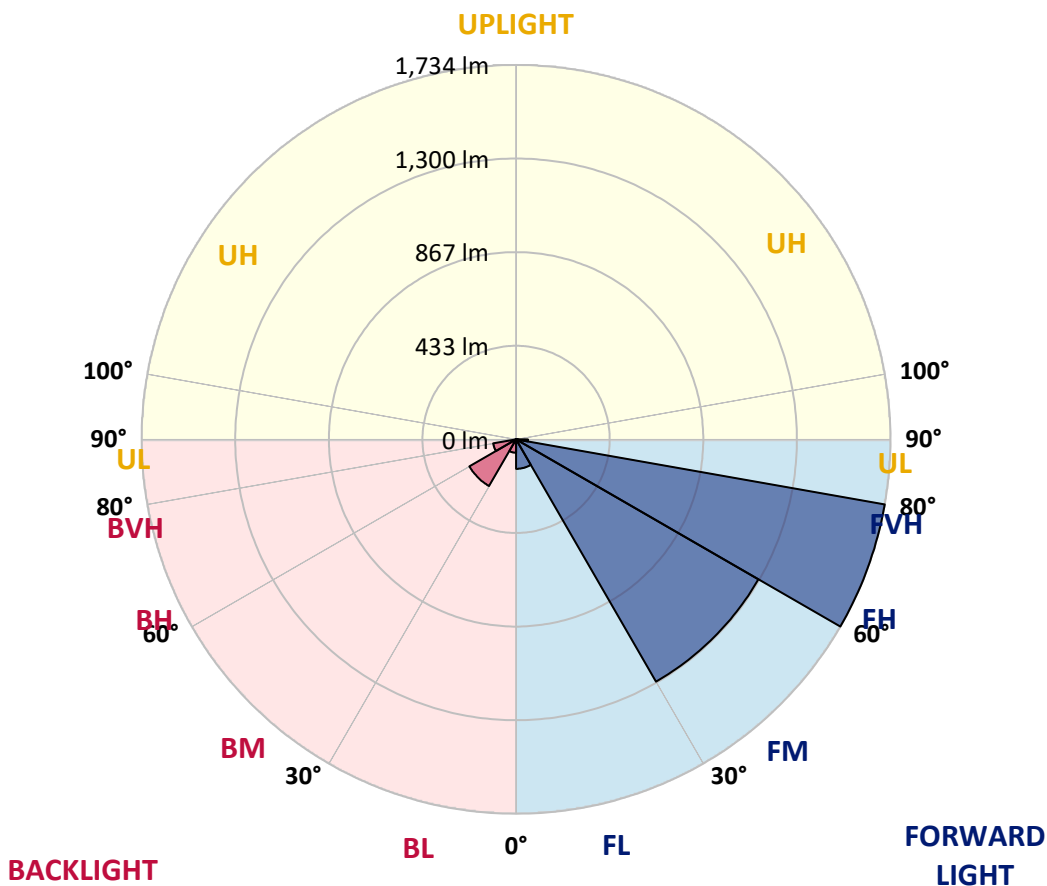
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.5	3.7			
FM (30°-60°)	1295.8	35.6			
FH (60°-80°)	1733.9	47.6			G1/1800
FVH (80°-90°)	55.0	1.5			G1/100
BL (0°-30°)	62.2	1.7	B0/110		
BM (30°-60°)	249.7	6.9	B1/1000		
BH (60°-80°)	107.7	3.0	B0/110		G0/110
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0
2.5°	186.9	186.4	185.6	183.0	180.8	179.5	176.9	176.9	176.5	175.6	173.9
5°	180.8	179.1	177.4	172.6	167.4	164.4	161.0	160.5	160.5	159.7	159.2
7.5°	171.3	169.6	167.4	159.7	154.9	151.9	148.9	148.5	147.2	147.2	147.2
10°	166.1	163.6	160.1	151.5	146.7	144.1	142.0	140.7	139.8	138.5	138.1
12.5°	177.4	172.6	165.3	149.7	143.3	139.8	137.2	136.4	133.8	132.1	130.8
15°	212.3	200.7	186.0	153.6	142.0	136.8	133.3	131.6	129.5	126.4	124.3
17.5°	269.7	252.9	228.3	166.1	140.7	134.2	129.9	126.9	123.9	120.4	117.8
20°	349.1	324.1	294.7	189.0	140.7	131.2	126.0	122.1	117.8	113.9	110.9
22.5°	450.1	425.1	375.0	227.9	142.4	127.3	121.3	116.1	110.9	107.5	104.0
25°	563.2	527.8	481.2	274.9	147.2	122.1	115.7	110.5	105.7	101.4	97.5
27.5°	689.2	650.8	588.6	341.8	157.5	117.0	109.6	104.9	100.6	96.2	91.1
30°	805.3	782.4	719.0	422.1	174.3	113.5	104.9	100.6	96.2	90.6	85.9
32.5°	944.7	904.1	851.9	513.5	196.8	110.0	101.0	94.9	91.5	86.3	81.1
35°	1084.9	1050.4	981.8	626.2	221.8	106.6	96.2	90.6	87.6	81.6	76.0
37.5°	1229.5	1221.7	1154.0	750.9	246.4	102.7	90.6	87.2	84.2	77.2	70.8
40°	1371.9	1357.7	1295.1	893.3	261.5	98.4	85.9	83.7	80.3	72.5	65.2
42.5°	1508.3	1497.5	1436.6	1029.7	259.4	94.5	81.1	78.5	76.0	68.2	59.1
45°	1675.7	1658.0	1581.2	1130.7	237.4	98.8	76.4	72.1	71.6	64.3	53.1
47.5°	1989.0	1930.8	1800.4	1208.3	215.3	110.0	71.2	66.0	69.0	60.4	47.0
50°	2427.9	2359.3	2170.7	1268.8	214.9	124.7	70.3	60.4	66.9	57.4	41.9
52.5°	2869.0	2748.1	2519.0	1301.1	230.9	135.5	78.1	54.8	64.3	54.4	38.0
55°	3291.4	3040.7	2664.8	1194.1	243.4	147.2	92.4	51.8	59.6	50.9	35.8
57.5°	3694.1	3275.9	2728.3	944.7	285.3	151.9	101.0	53.1	52.6	46.6	34.1
60°	3749.3	3264.7	2600.1	549.4	314.6	143.7	97.5	59.1	46.2	41.4	31.1
62.5°	3540.4	3047.6	2307.9	342.7	292.2	140.7	86.7	67.3	41.9	36.7	27.2
65°	3223.3	2707.1	1924.3	221.0	221.4	156.2	76.0	66.0	39.3	32.4	23.3
67.5°	2727.4	2265.6	1516.0	148.0	125.1	133.3	66.5	45.3	38.4	27.6	18.1
70°	1990.7	1612.7	987.0	98.8	74.7	106.6	55.7	32.4	36.3	22.9	12.9
72.5°	1455.2	1083.6	551.1	64.7	42.3	62.1	41.0	23.3	28.1	16.8	9.1
75°	1047.4	745.7	314.6	41.4	28.1	34.1	26.8	16.0	18.1	13.4	8.2
77.5°	504.1	363.4	142.8	22.9	19.0	17.3	14.2	9.9	11.2	12.1	7.3
80°	19.0	14.2	10.8	11.2	12.1	7.8	6.5	5.2	6.5	8.2	3.9
82.5°	0.0	0.0	0.0	1.3	1.7	2.2	2.6	2.2	2.6	3.0	0.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0
2.5°	175.2	174.3	175.2	176.1	176.9	177.8	176.5	177.4	178.2	176.1	176.9
5°	161.4	161.0	163.6	164.9	166.6	167.4	166.6	166.6	166.1	163.6	163.6
7.5°	149.3	149.7	151.9	154.9	157.1	158.4	157.5	157.1	155.8	151.9	151.9
10°	140.3	140.3	143.7	146.3	149.3	150.6	149.7	148.5	147.2	143.3	142.8
12.5°	132.9	132.9	135.5	139.8	143.3	145.0	144.6	142.8	140.7	136.8	136.4
15°	126.0	125.6	129.5	133.3	138.1	140.3	139.4	138.1	134.2	130.8	129.9
17.5°	119.1	118.7	122.1	127.3	132.5	135.5	135.1	132.1	128.6	124.3	123.4
20°	112.2	111.3	115.7	120.8	126.0	129.0	128.2	125.6	121.3	117.0	116.1
22.5°	105.3	104.9	107.9	112.2	117.0	119.5	119.1	117.0	112.6	108.8	108.8
25°	97.5	97.5	99.7	102.7	106.2	107.5	107.9	107.0	104.4	102.3	102.3
27.5°	91.1	89.8	90.6	91.5	93.2	95.4	95.4	96.2	96.7	95.8	96.2
30°	85.9	83.7	82.4	80.7	79.8	80.7	81.6	84.6	87.6	89.3	90.2
32.5°	79.8	77.2	73.8	69.0	66.0	65.2	67.8	73.4	79.0	82.9	85.0
35°	73.8	70.3	63.9	57.0	53.1	51.8	54.8	61.3	69.5	76.4	79.4
37.5°	67.8	63.0	53.9	45.7	41.4	40.6	43.6	50.5	60.0	69.5	73.4
40°	60.8	55.2	44.4	35.8	32.4	31.5	34.1	41.0	50.9	61.7	67.8
42.5°	53.9	47.0	35.8	28.5	25.0	25.0	28.5	33.7	42.7	54.4	61.7
45°	47.0	39.7	29.3	22.9	20.7	21.1	23.3	28.5	35.8	47.9	54.8
47.5°	40.6	34.1	24.2	19.0	17.3	17.7	20.3	24.6	30.6	41.4	48.8
50°	35.0	28.9	21.1	16.0	14.7	15.5	18.1	22.0	27.2	36.7	42.7
52.5°	31.5	25.9	19.4	13.8	12.9	13.8	16.4	19.9	24.6	32.4	38.4
55°	29.8	25.5	19.4	12.5	11.2	12.1	14.7	18.1	22.0	29.3	34.5
57.5°	29.3	26.3	20.7	11.2	9.5	10.4	12.9	16.4	20.3	26.8	31.1
60°	27.6	25.0	20.3	9.1	7.3	8.6	10.8	14.2	18.6	25.0	28.9
62.5°	24.2	22.0	17.7	7.3	5.6	6.5	9.1	12.5	16.8	22.9	27.2
65°	19.9	17.7	13.8	4.7	3.5	4.3	6.9	10.8	14.7	20.7	24.6
67.5°	14.7	12.5	9.5	3.0	1.7	3.0	5.6	9.1	13.4	18.6	22.4
70°	9.1	7.3	5.2	1.7	1.3	2.6	5.2	8.6	12.1	17.3	21.1
72.5°	5.2	3.5	2.2	0.9	1.3	2.6	5.2	8.6	11.7	16.4	19.9
75°	3.9	2.2	0.9	0.4	0.9	2.2	4.7	7.8	11.2	15.5	19.0
77.5°	2.6	1.3	0.4	0.0	0.4	1.7	4.3	7.3	10.4	14.7	18.1
80°	0.4	0.0	0.0	0.0	0.0	1.3	3.9	6.5	9.5	12.9	16.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	3.0	5.6	8.2	10.8	12.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.3	6.5	8.2	9.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.3	5.2	6.0
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°	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0
2.5°	176.5	179.1	179.1	180.8	183.0	186.9	189.0	192.0	194.2	196.4	197.2
5°	163.1	163.6	164.0	164.9	167.4	171.8	175.6	180.4	186.0	190.3	192.9
7.5°	151.9	151.9	151.9	153.2	155.8	158.8	162.7	169.2	175.6	180.8	185.1
10°	142.4	143.7	144.1	146.3	149.3	153.2	157.5	163.1	170.5	177.4	185.1
12.5°	136.4	137.7	139.8	142.0	145.0	149.3	154.1	161.4	176.5	190.7	207.1
15°	130.8	132.5	135.1	138.1	141.5	146.3	151.5	166.6	202.0	228.7	254.6
17.5°	124.7	127.3	130.8	133.8	138.1	143.3	149.7	179.1	248.6	293.0	337.0
20°	117.0	120.4	124.3	129.0	134.2	140.3	149.7	205.0	315.9	379.8	438.0
22.5°	109.6	113.1	117.8	123.9	129.9	135.9	151.9	244.3	402.6	483.3	557.1
25°	103.6	107.9	112.6	117.8	124.7	131.6	157.1	299.5	507.1	611.1	663.3
27.5°	98.0	103.1	107.9	112.2	118.2	126.0	168.7	373.3	630.5	736.2	777.2
30°	92.4	98.4	103.1	107.5	113.5	121.7	186.4	467.4	767.7	870.4	874.8
32.5°	87.6	93.2	98.8	103.1	108.8	118.2	211.0	577.4	908.4	1007.7	967.1
35°	82.4	88.9	94.1	98.8	104.9	115.2	239.5	696.1	1050.4	1133.7	1059.0
37.5°	77.2	84.6	91.1	94.5	100.6	112.2	260.2	819.9	1195.4	1256.7	1139.7
40°	72.5	80.7	88.0	91.5	94.5	108.3	263.2	946.8	1342.6	1377.9	1215.7
42.5°	67.3	76.4	82.9	87.6	90.2	105.7	245.1	1053.8	1466.0	1498.8	1314.9
45°	61.7	72.5	77.7	81.1	86.3	107.5	221.8	1136.7	1607.1	1663.6	1478.5
47.5°	56.1	68.2	72.5	75.1	82.0	117.8	213.2	1191.9	1839.7	1957.1	1754.3
50°	50.9	64.3	69.0	68.6	81.1	131.2	222.7	1233.8	2189.3	2327.4	2132.3
52.5°	45.3	60.0	65.6	63.9	87.6	141.5	241.7	1267.0	2458.1	2761.5	2640.2
55°	40.6	55.2	60.4	60.0	99.7	149.3	256.3	1091.8	2569.5	3165.0	3212.5
57.5°	37.1	50.1	54.4	61.7	107.5	149.3	296.5	775.1	2571.6	3461.9	3972.0
60°	34.1	45.3	48.3	67.8	104.4	141.5	293.5	474.7	2370.1	3441.6	4375.9
62.5°	31.5	41.0	44.9	69.5	92.4	140.3	265.0	294.3	2021.4	3179.7	4082.9
65°	29.3	37.5	43.2	63.9	83.7	150.2	178.7	211.5	1639.5	2881.0	3746.7
67.5°	27.2	34.5	45.7	52.2	76.0	134.2	129.0	150.2	1286.9	2553.5	3438.2
70°	25.5	32.8	48.3	42.7	66.5	104.9	91.5	113.9	985.2	2130.6	3003.6
72.5°	24.2	30.6	40.6	33.7	53.9	81.1	63.9	82.9	643.9	1663.2	2448.6
75°	22.9	28.1	29.8	27.2	40.1	53.1	48.3	55.7	383.6	1215.7	1857.8
77.5°	22.4	26.3	24.2	22.0	27.2	31.5	36.7	37.5	187.3	608.1	973.6
80°	19.9	23.7	20.7	18.1	18.6	20.7	27.2	25.0	42.7	154.5	259.8
82.5°	15.5	18.6	17.3	15.1	15.1	15.1	18.1	16.8	13.8	69.5	117.4
85°	10.8	12.9	12.9	12.1	11.7	11.7	11.2	10.8	3.9	4.3	6.5
87.5°	7.3	9.1	9.5	9.1	7.8	6.9	6.0	5.2	1.7	0.0	0.9
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°	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0
2.5°	200.2	201.5	201.5	199.8	198.5	195.1	191.6	188.2	187.3	186.9
5°	200.2	205.4	208.0	207.6	204.6	198.9	191.6	183.8	181.7	180.8
7.5°	197.2	207.1	214.9	216.2	210.6	200.7	187.3	175.6	172.6	171.3
10°	204.1	223.5	239.1	241.2	234.8	215.3	193.8	173.9	169.2	166.1
12.5°	241.2	273.2	292.2	301.2	288.7	264.1	228.3	192.9	182.1	177.4
15°	316.3	361.6	397.9	397.9	386.2	342.7	297.3	239.9	225.3	212.3
17.5°	412.6	469.5	501.5	498.0	480.3	449.7	395.3	312.9	283.1	269.7
20°	522.2	556.3	563.6	561.4	553.7	536.0	498.4	410.0	369.8	349.1
22.5°	617.1	608.1	597.3	588.6	586.5	591.7	586.5	518.3	486.8	450.1
25°	681.4	630.1	597.7	582.2	589.5	619.3	651.6	626.2	601.2	563.2
27.5°	716.4	627.5	580.9	564.9	577.4	619.7	690.1	733.2	707.3	689.2
30°	735.4	625.3	570.1	554.5	573.5	626.6	716.8	833.3	834.2	805.3
32.5°	762.6	639.1	572.2	558.0	583.5	647.3	750.5	935.2	960.2	944.7
35°	793.2	660.3	582.2	569.2	600.7	674.9	788.0	1037.9	1090.1	1084.9
37.5°	822.1	684.0	605.5	593.0	627.0	698.7	824.3	1138.9	1211.4	1229.5
40°	852.3	717.2	677.1	689.2	708.2	736.2	856.6	1226.5	1344.7	1371.9
42.5°	923.5	832.5	893.7	916.6	919.2	861.4	927.4	1338.7	1475.9	1508.3
45°	1082.3	1037.4	1213.1	1245.5	1228.6	1053.4	1097.9	1500.5	1659.3	1675.7
47.5°	1283.0	1303.7	1650.3	1762.0	1661.0	1280.0	1304.6	1841.0	1995.1	1989.0
50°	1516.9	1614.9	2146.5	2410.2	2168.5	1574.3	1542.8	2259.6	2446.5	2427.9
52.5°	1793.5	1976.5	2742.9	3117.5	2888.8	1905.3	1892.4	2814.1	2928.1	2869.0
55°	2141.8	2325.6	3429.1	3952.6	3627.2	2309.2	2353.7	3457.2	3479.2	3291.4
57.5°	2661.4	2780.9	4237.8	4910.2	4397.9	2858.2	3180.5	4312.9	4049.7	3694.1
60°	3604.7	3366.5	5019.4	5889.8	5217.9	3630.2	4271.1	4820.0	4239.6	3749.3
62.5°	3933.2	3863.7	5508.7	6304.1	5769.4	4264.2	4554.6	4532.6	3993.6	3540.4
65°	3435.6	3739.8	5421.1	6085.3	5698.6	4159.7	4087.2	4215.4	3716.5	3223.3
67.5°	3173.6	3449.0	5089.3	5481.6	5306.4	3805.4	3643.2	3608.2	3120.1	2727.4
70°	2909.5	3182.3	4608.1	4656.9	4575.3	3228.0	3014.8	2780.5	2332.1	1990.7
72.5°	2591.9	2742.1	3940.5	3709.2	3616.8	2535.4	2490.5	2093.9	1748.2	1455.2
75°	2260.5	2216.9	3072.2	2545.7	2614.8	1972.6	2103.4	1537.6	1280.8	1047.4
77.5°	1644.2	1611.8	2057.6	1546.2	1712.4	1292.1	1160.9	613.7	584.3	504.1
80°	917.5	1106.1	1111.2	866.6	1081.0	842.4	290.4	20.3	12.9	19.0
82.5°	426.4	475.6	602.4	401.8	616.7	417.3	60.0	0.0	0.0	0.0
85°	138.1	202.0	169.2	59.1	149.3	141.1	9.9	0.0	0.0	0.0
87.5°	8.2	16.8	4.3	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

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