

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: P631115

Luminaire Tested: GWS-SA1F-722-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631115  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-722-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

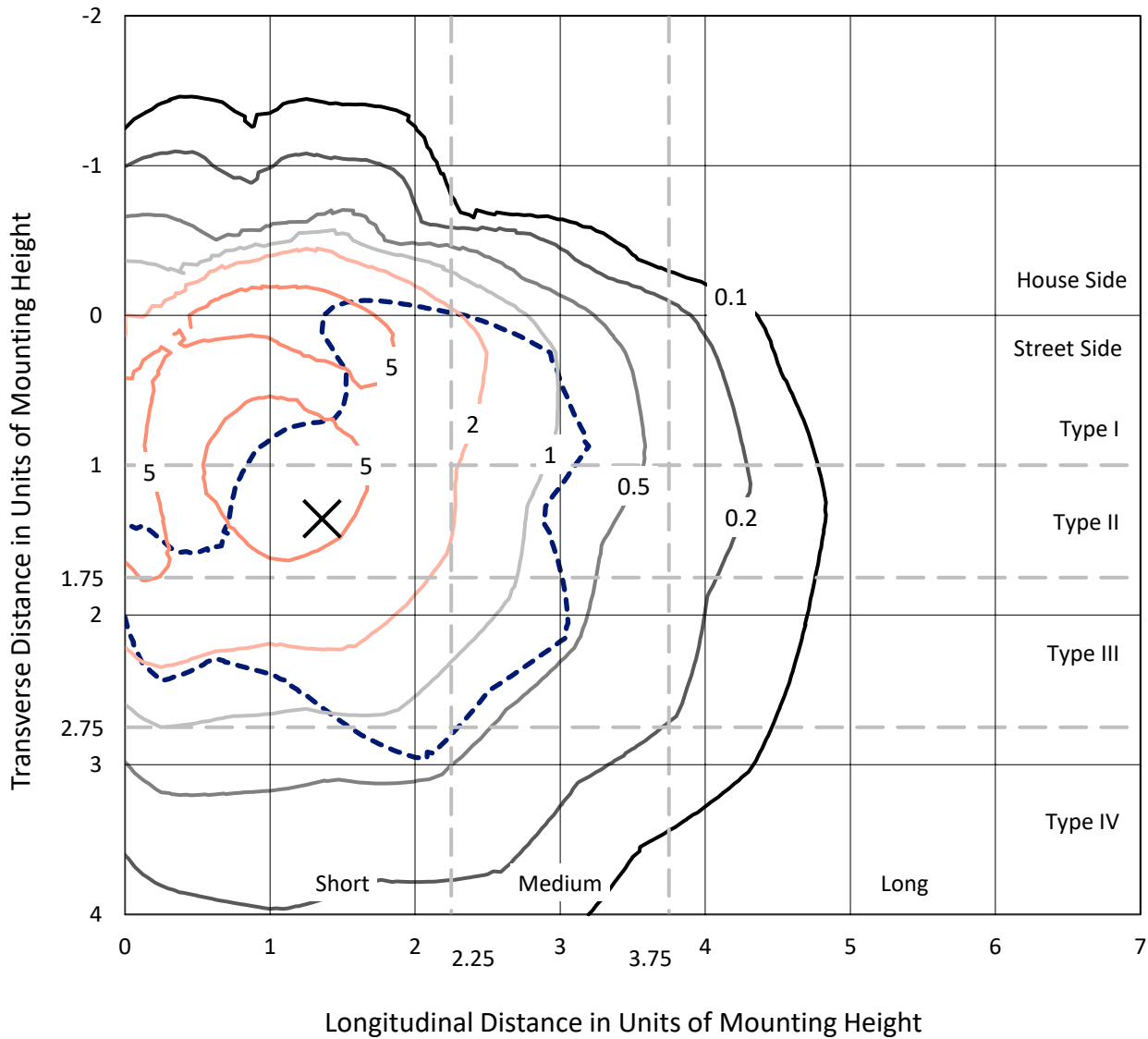
Lumens per Lamp: N/A  
Luminaire Lumens: 3851.3 lumens  
Efficiency: N/A  
Efficacy: 57.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

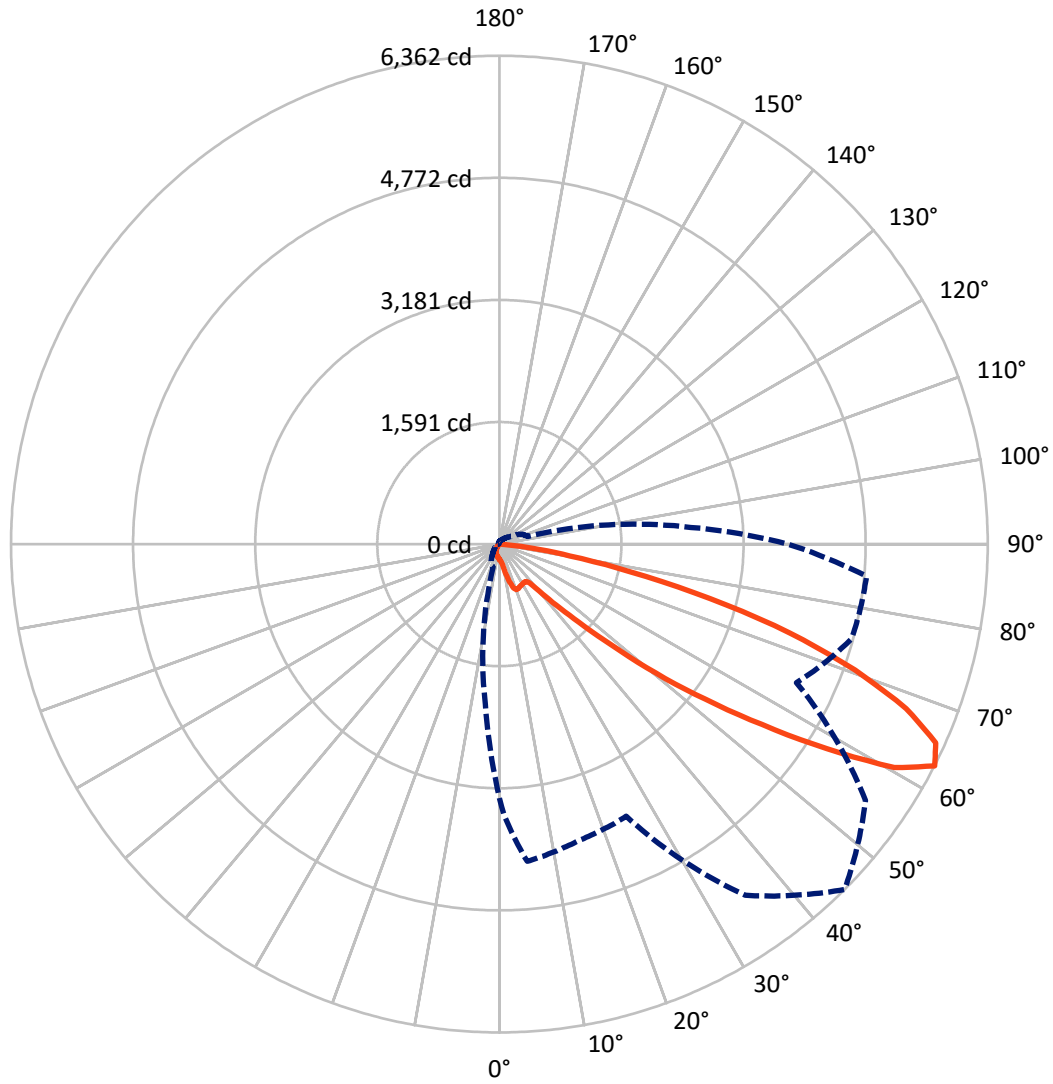
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	475.2	0.0	475.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	3376.1	0.0	3376.1
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	3851.3	0.0	3851.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.8	0.5
10°-20°	67.1	1.7
20°-30°	146.0	3.8
30°-40°	239.6	6.2
40°-50°	440.4	11.4
50°-60°	945.8	24.6
60°-70°	1270.4	33.0
70°-80°	661.5	17.2
80°-90°	62.7	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°	3851.3	100.0
0°-180°	3851.3	100.0

**Coefficient of Utilization**

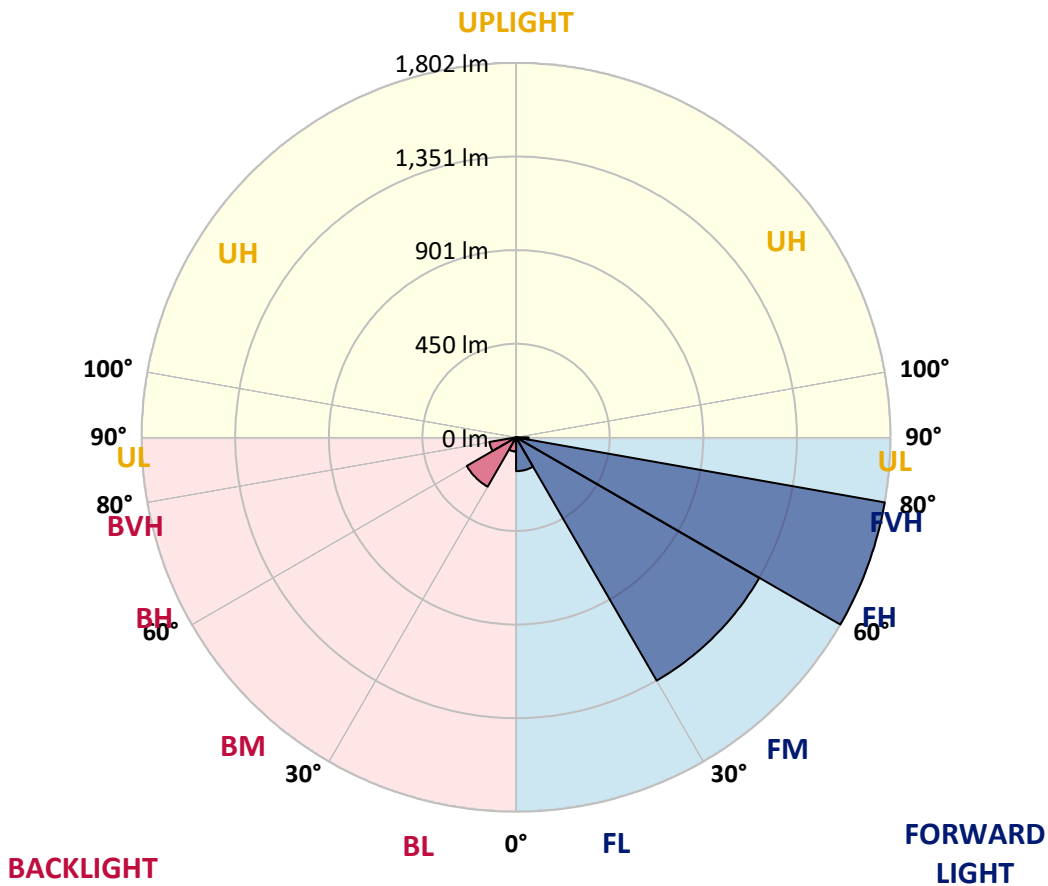


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.7	4.2			
FM (30°-60°)	1351.8	35.1			
FH (60°-80°)	1801.7	46.8			G2/5000
FVH (80°-90°)	59.9	1.6			G1/100
BL (0°-30°)	68.2	1.8	B0/110		
BM (30°-60°)	274.1	7.1	B1/1000		
BH (60°-80°)	130.2	3.4	B1/500		G1/500
BVH (80°-90°)	2.8	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
2.5°	204.2	205.1	206.0	209.1	211.3	213.1	213.5	212.2	209.1	206.0	201.5
5°	198.0	198.9	202.0	210.4	218.9	225.5	227.8	226.4	218.9	209.1	198.9
7.5°	197.5	199.3	206.9	224.7	242.9	256.7	260.2	257.1	242.9	223.3	202.4
10°	213.5	216.6	227.8	259.8	293.2	317.6	327.4	314.1	291.4	255.8	221.5
12.5°	255.3	260.7	282.0	328.8	380.4	412.8	426.2	409.7	374.1	322.5	268.3
15°	321.2	329.2	361.2	431.1	492.0	520.9	525.4	516.0	474.7	417.7	344.8
17.5°	414.2	425.7	475.6	546.7	590.8	601.0	599.7	589.9	559.6	520.5	451.5
20°	525.4	539.2	588.1	646.8	651.3	639.3	632.6	626.8	616.6	609.9	556.1
22.5°	637.5	654.4	705.5	720.2	680.2	645.5	629.0	633.5	648.6	681.5	659.7
25°	749.1	765.2	813.2	773.6	693.5	635.7	614.8	625.5	661.5	732.7	760.7
27.5°	879.5	891.5	920.0	810.1	695.8	627.7	607.2	623.7	667.7	764.7	871.5
30°	1015.2	1022.3	1008.5	819.9	688.2	615.7	599.7	623.7	678.4	786.1	954.7
32.5°	1114.8	1116.2	1071.2	820.8	684.2	605.9	592.6	621.0	688.6	803.9	1035.2
35°	1217.6	1210.9	1131.3	834.1	694.9	609.5	597.9	628.6	704.7	824.8	1105.9
37.5°	1321.7	1309.7	1198.5	855.9	722.5	648.2	641.0	667.3	730.5	853.7	1183.8
40°	1428.4	1412.0	1268.3	888.8	783.8	779.8	804.3	801.2	801.2	890.6	1263.8
42.5°	1558.8	1539.7	1371.5	981.8	927.1	1016.5	1083.2	1041.9	965.3	975.6	1367.9
45°	1731.0	1714.5	1550.3	1159.7	1151.7	1357.3	1447.1	1365.3	1174.9	1171.8	1541.9
47.5°	2006.3	2003.2	1835.5	1366.2	1426.7	1791.0	1964.5	1807.0	1413.8	1379.5	1871.1
50°	2393.3	2384.0	2190.9	1608.2	1753.6	2328.4	2638.0	2375.6	1702.5	1622.0	2311.9
52.5°	2829.3	2839.1	2688.7	1872.4	2101.1	2926.3	3357.4	3026.8	2016.1	1930.2	2866.7
55°	3239.9	3296.0	3256.4	2181.6	2440.5	3586.5	4147.4	3741.3	2404.5	2333.7	3488.6
57.5°	3561.1	3719.0	3996.6	2630.9	2839.5	4358.7	5029.6	4515.8	2857.8	2989.0	4335.2
60°	3578.9	3788.0	4432.6	3570.9	3352.9	5021.1	5910.4	5272.5	3570.4	4101.6	4998.4
62.5°	3310.6	3534.9	4148.8	3998.0	3912.1	5584.8	6362.4	5824.1	4271.5	4753.3	4801.8
65°	3003.7	3230.1	3832.0	3513.5	3847.1	5560.7	6247.6	5837.0	4335.2	4310.2	4449.9
67.5°	2539.7	2743.0	3288.0	3110.0	3546.0	5292.5	5717.3	5469.1	3994.0	4031.3	4093.6
70°	1853.7	2049.5	2555.3	2564.2	3096.7	4808.9	4912.6	4878.3	3678.1	3717.7	3539.8
72.5°	1339.0	1504.1	1940.5	2102.9	2472.1	4032.7	3961.0	4093.2	3155.8	3311.1	2843.1
75°	962.7	1086.3	1423.6	1829.3	1959.6	2994.8	2835.5	3170.1	2532.1	2851.1	2137.6
77.5°	390.6	434.2	560.1	1232.3	1287.9	2014.8	1735.8	2302.6	1805.2	1873.3	1036.1
80°	16.0	17.8	23.1	636.1	883.0	1133.5	928.9	1230.9	1192.2	754.5	244.7
82.5°	1.8	1.8	4.0	183.3	386.6	625.5	437.7	709.1	603.7	319.9	111.2
85°	0.4	0.4	0.9	20.9	90.8	100.1	59.2	217.5	280.7	130.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.0	4.4	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°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
2.5°	201.5	199.3	196.6	194.0	192.6	189.1	187.7	186.8	186.0	186.4	186.4
5°	194.8	190.0	184.2	178.4	175.3	171.7	169.9	169.0	169.5	171.3	171.3
7.5°	194.0	184.6	172.2	164.6	161.0	158.4	156.6	155.7	156.1	158.4	159.3
10°	208.6	192.2	169.9	157.0	153.0	150.4	148.6	147.2	146.4	148.1	148.6
12.5°	240.2	217.5	180.6	156.1	149.0	145.5	144.1	141.5	140.1	141.0	141.5
15°	305.6	266.5	202.0	159.7	145.5	141.5	139.2	137.0	134.8	134.3	134.8
17.5°	391.0	335.0	234.4	168.2	142.8	137.9	134.8	131.7	128.6	128.1	127.7
20°	496.9	419.1	279.8	181.5	140.6	134.8	130.3	125.9	121.9	120.6	120.6
22.5°	593.4	520.5	338.1	198.0	137.5	130.3	125.0	119.7	115.2	113.0	112.5
25°	711.3	628.1	407.9	217.1	133.0	124.6	118.8	113.4	109.0	106.3	105.4
27.5°	830.1	741.6	487.1	242.0	127.7	118.8	113.4	108.5	103.7	100.5	99.6
30°	945.3	863.9	576.1	273.1	123.7	113.0	108.5	103.7	99.2	94.3	93.0
32.5°	1069.0	988.9	675.7	307.8	120.6	109.0	104.1	99.6	93.9	89.4	87.2
35°	1188.2	1117.9	785.6	341.7	117.4	105.4	100.1	95.6	89.4	84.5	81.4
37.5°	1308.3	1249.2	900.4	362.1	113.0	100.5	95.6	92.1	85.0	79.2	75.6
40°	1435.6	1384.8	1024.5	353.7	109.0	95.2	92.5	88.5	80.5	73.8	69.4
42.5°	1575.2	1514.3	1150.9	321.2	105.4	90.8	88.1	84.1	76.5	68.5	62.7
45°	1751.0	1656.2	1254.5	272.3	107.2	86.3	81.0	80.1	73.0	62.7	55.6
47.5°	2053.0	1874.2	1335.0	240.7	119.2	81.4	75.2	77.4	69.8	56.9	48.9
50°	2515.2	2235.4	1410.2	238.4	137.5	79.2	69.8	75.6	66.7	51.2	43.2
52.5°	2955.6	2602.4	1458.3	258.0	153.5	85.0	64.5	73.4	64.5	47.2	39.1
55°	3376.9	2814.2	1372.4	272.3	168.6	102.3	60.5	69.8	61.8	44.9	37.8
57.5°	3831.1	2908.5	1080.6	301.2	179.3	117.0	61.4	64.5	58.3	43.6	37.4
60°	3966.8	2787.9	652.2	339.0	173.5	121.4	68.1	57.4	53.4	40.9	36.0
62.5°	3756.0	2501.9	384.8	308.7	168.6	114.8	77.9	52.9	48.5	37.4	33.4
65°	3440.5	2113.5	250.9	260.7	178.8	102.3	82.7	50.7	44.0	33.8	29.4
67.5°	3080.2	1702.5	175.7	153.9	165.0	92.1	69.8	50.3	39.6	28.5	24.0
70°	2594.4	1275.0	123.7	101.9	137.5	81.9	54.3	48.9	34.7	23.1	18.7
72.5°	2004.5	798.1	92.1	65.8	97.9	66.7	43.2	41.4	28.0	19.1	14.2
75°	1478.3	455.1	64.9	47.6	64.5	50.7	32.0	29.4	24.0	18.2	12.9
77.5°	771.8	227.8	40.5	36.5	36.9	31.6	23.1	21.4	22.2	18.2	12.0
80°	148.1	45.4	24.5	26.7	20.0	20.0	16.9	17.8	19.6	14.7	10.2
82.5°	61.8	9.8	13.3	15.1	12.5	13.8	13.8	14.2	13.8	10.7	7.6
85°	0.0	0.0	5.8	6.2	8.5	8.5	7.1	7.1	7.1	6.2	4.4
87.5°	0.0	0.0	0.0	0.0	0.4	1.3	2.7	3.1	3.6	2.7	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°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
2.5°	186.0	185.1	186.4	187.3	188.2	188.2	187.3	186.4	185.1	186.4	185.1
5°	171.7	173.1	175.3	176.2	177.1	175.3	174.4	171.7	169.5	169.9	169.0
7.5°	160.6	161.9	164.6	166.4	166.4	165.5	162.8	160.1	156.6	156.6	156.1
10°	150.4	152.1	155.3	157.5	158.4	157.5	154.8	151.3	148.1	148.1	146.8
12.5°	141.9	144.1	147.7	150.8	151.7	150.8	148.1	144.6	141.0	141.0	140.1
15°	134.8	137.5	141.5	145.0	146.4	145.0	141.9	137.5	133.9	134.3	133.0
17.5°	128.1	130.3	135.7	139.7	141.0	139.7	135.7	129.9	126.3	127.2	126.3
20°	120.6	123.2	128.6	133.0	134.3	133.0	128.6	122.3	118.8	118.8	119.2
22.5°	112.5	115.2	120.6	123.7	125.5	124.1	119.7	113.9	110.3	110.3	110.8
25°	105.4	106.8	110.8	113.9	114.3	113.0	109.4	105.0	102.3	103.7	104.1
27.5°	98.8	98.8	100.5	102.3	101.9	100.5	99.2	95.6	95.2	96.5	97.9
30°	91.6	89.4	88.5	87.2	86.7	86.3	87.6	87.6	88.5	90.3	91.6
32.5°	85.4	81.0	77.0	73.0	70.7	72.5	76.1	79.2	82.3	85.0	86.3
35°	78.3	71.2	64.5	59.2	55.6	58.3	64.1	69.8	75.2	78.7	81.0
37.5°	71.2	60.9	52.9	46.3	43.6	45.8	52.0	60.1	68.1	72.5	75.6
40°	63.6	50.7	41.4	36.0	33.4	35.6	41.8	49.8	60.5	66.3	70.3
42.5°	56.1	41.8	33.4	28.0	26.7	28.0	32.9	40.9	52.5	59.6	64.9
45°	48.5	34.7	26.7	22.7	21.4	22.7	26.7	33.4	44.9	52.9	59.2
47.5°	41.8	29.4	22.2	18.7	17.8	19.1	22.2	28.0	37.8	45.8	52.9
50°	36.5	25.8	19.1	16.0	15.1	16.5	19.1	23.6	32.0	39.1	46.7
52.5°	32.9	24.0	16.9	13.8	13.3	14.2	16.5	20.0	27.1	33.4	40.5
55°	32.0	24.0	15.6	12.5	12.0	12.9	14.7	17.3	23.6	28.9	35.1
57.5°	32.9	25.8	14.7	10.7	10.2	11.1	12.9	15.1	20.5	24.9	30.7
60°	32.9	26.2	12.9	8.5	8.0	8.9	10.7	13.3	18.2	21.8	26.7
62.5°	29.8	24.0	10.7	6.7	5.8	6.7	8.9	11.1	16.0	19.6	23.6
65°	25.8	20.5	8.9	4.9	4.0	4.9	7.1	9.3	13.8	16.9	21.4
67.5°	20.9	15.6	6.7	3.6	2.7	3.6	5.3	7.6	11.6	14.7	19.1
70°	15.6	11.1	5.3	3.1	2.7	3.1	4.9	7.1	10.2	13.3	17.8
72.5°	11.6	7.6	4.4	3.1	2.2	3.1	4.4	6.7	9.8	12.9	16.9
75°	9.8	6.2	4.0	2.7	2.2	2.7	4.0	6.2	8.9	12.0	16.0
77.5°	9.3	5.8	3.6	2.2	1.8	2.2	3.6	5.3	8.0	11.1	15.6
80°	8.0	4.9	3.1	1.8	1.3	1.8	3.1	4.4	6.2	8.5	12.0
82.5°	6.2	4.0	2.2	0.9	0.4	0.9	2.2	2.7	4.0	4.9	7.1
85°	4.0	2.2	0.9	0.0	0.0	0.0	0.9	1.8	1.8	2.2	3.6
87.5°	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.3
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°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
2.5°	187.7	188.2	189.1	190.4	193.5	196.2	198.9	202.4	204.2	204.2
5°	169.9	170.4	170.8	172.6	177.1	180.6	186.4	193.5	197.1	198.0
7.5°	156.1	157.0	157.9	159.3	163.7	168.6	176.2	189.5	196.2	197.5
10°	148.1	149.5	151.3	153.9	157.9	163.3	176.2	200.2	211.3	213.5
12.5°	141.9	144.1	145.9	149.0	153.9	162.4	188.2	230.4	250.0	255.3
15°	135.7	138.4	141.0	144.1	149.5	165.5	211.3	284.7	317.2	321.2
17.5°	129.5	132.6	136.1	139.7	146.4	173.1	247.8	359.9	405.3	414.2
20°	122.3	126.3	131.2	135.7	143.2	185.1	298.5	449.3	506.3	525.4
22.5°	114.8	119.7	125.5	131.2	139.7	199.7	359.9	545.4	625.0	637.5
25°	108.5	113.4	118.8	124.6	133.9	217.5	434.2	664.6	737.1	749.1
27.5°	102.8	107.7	112.5	117.9	128.1	240.7	523.6	791.4	867.0	879.5
30°	96.5	102.3	107.2	112.5	122.8	269.1	626.8	932.0	1003.6	1015.2
32.5°	91.2	97.0	101.9	107.2	118.8	300.3	735.4	1056.5	1114.8	1114.8
35°	86.7	93.0	96.5	103.7	115.7	320.3	838.1	1175.3	1219.4	1217.6
37.5°	81.9	89.4	92.1	97.0	111.7	322.5	934.7	1300.8	1333.2	1321.7
40°	77.0	85.0	89.0	91.6	107.2	304.3	1040.5	1416.0	1443.6	1428.4
42.5°	72.5	78.7	84.5	87.6	104.5	272.3	1125.5	1539.2	1572.1	1558.8
45°	68.1	73.4	77.0	82.7	106.3	250.0	1198.5	1682.9	1740.7	1731.0
47.5°	63.6	68.1	70.3	79.2	118.3	239.8	1242.9	1905.3	2014.3	2006.3
50°	58.7	64.1	64.1	78.3	136.1	243.3	1281.6	2227.4	2396.0	2393.3
52.5°	53.8	59.6	58.7	85.0	149.9	259.8	1325.7	2511.7	2804.8	2829.3
55°	48.9	54.3	55.2	98.3	157.9	274.0	1155.3	2631.3	3154.1	3239.9
57.5°	43.6	46.7	57.4	108.5	155.3	315.4	791.4	2653.1	3376.9	3561.1
60°	37.8	40.5	64.9	106.3	146.8	291.4	498.2	2457.4	3345.3	3578.9
62.5°	32.9	37.4	68.5	93.9	149.5	252.7	317.6	2094.4	3044.2	3310.6
65°	28.9	36.0	62.3	85.0	151.3	171.3	214.4	1703.8	2750.1	3003.7
67.5°	25.8	40.0	51.2	75.6	129.9	120.6	147.2	1323.9	2312.4	2539.7
70°	23.6	40.9	41.8	64.9	100.5	77.4	97.0	891.1	1593.9	1853.7
72.5°	21.4	30.3	31.6	52.0	64.9	47.2	62.7	509.8	1162.0	1339.0
75°	20.5	20.5	21.8	33.8	36.0	34.3	40.5	304.3	833.2	962.7
77.5°	19.1	15.6	13.8	21.8	19.6	24.5	24.0	135.2	361.2	390.6
80°	15.1	11.1	9.3	13.8	13.3	16.5	14.2	11.1	16.5	16.0
82.5°	9.3	7.1	6.7	8.5	7.6	8.5	6.7	1.8	1.8	1.8
85°	4.4	4.0	3.6	3.6	4.0	3.6	2.7	0.9	0.4	0.4
87.5°	2.2	2.2	1.8	1.3	1.8	1.8	1.3	0.4	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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