

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: P633590

Luminaire Tested: GWS-SA2F-722-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633590  
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-SA2F-722-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

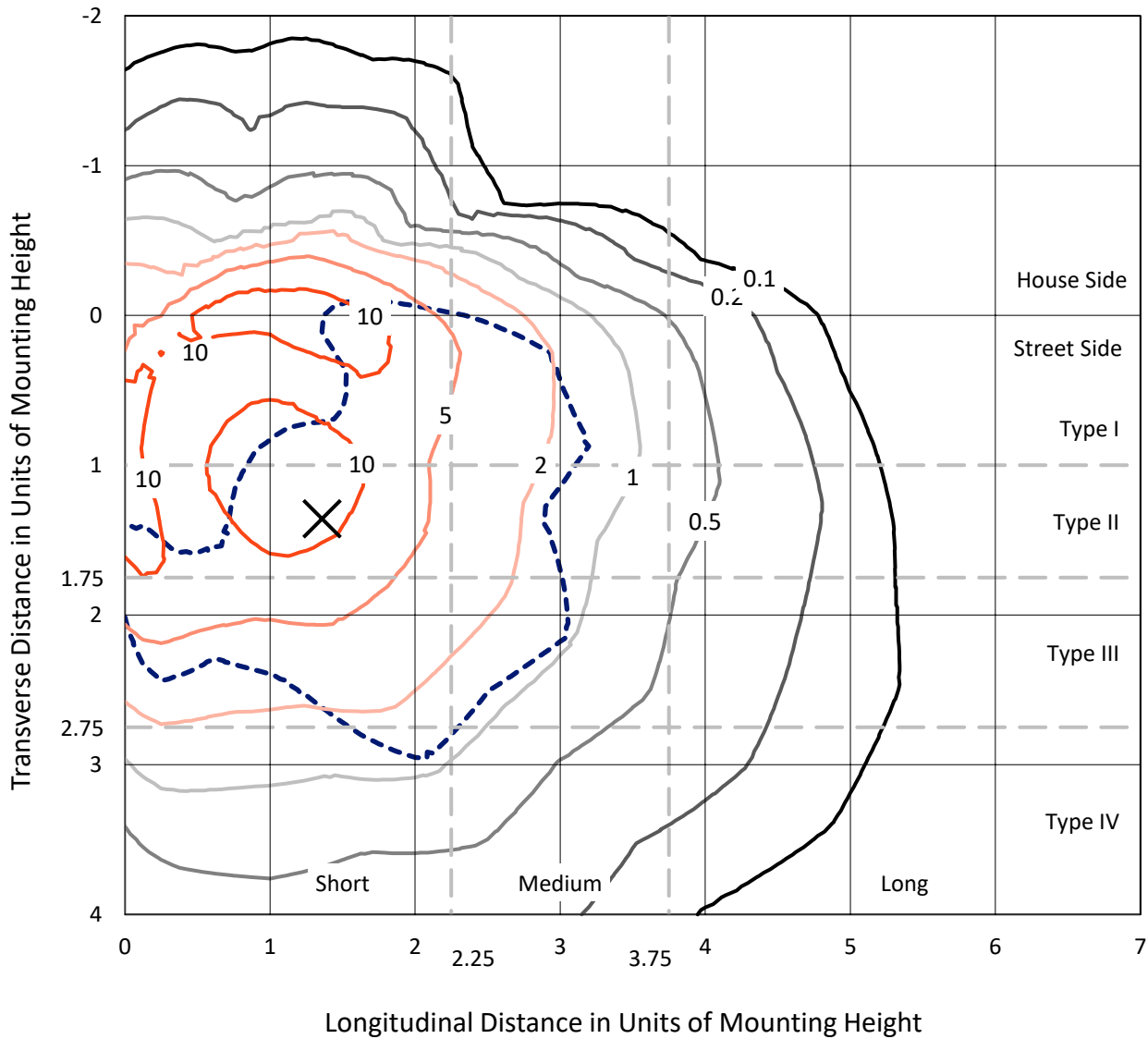
Lumens per Lamp: N/A  
Luminaire Lumens: 7415.8 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

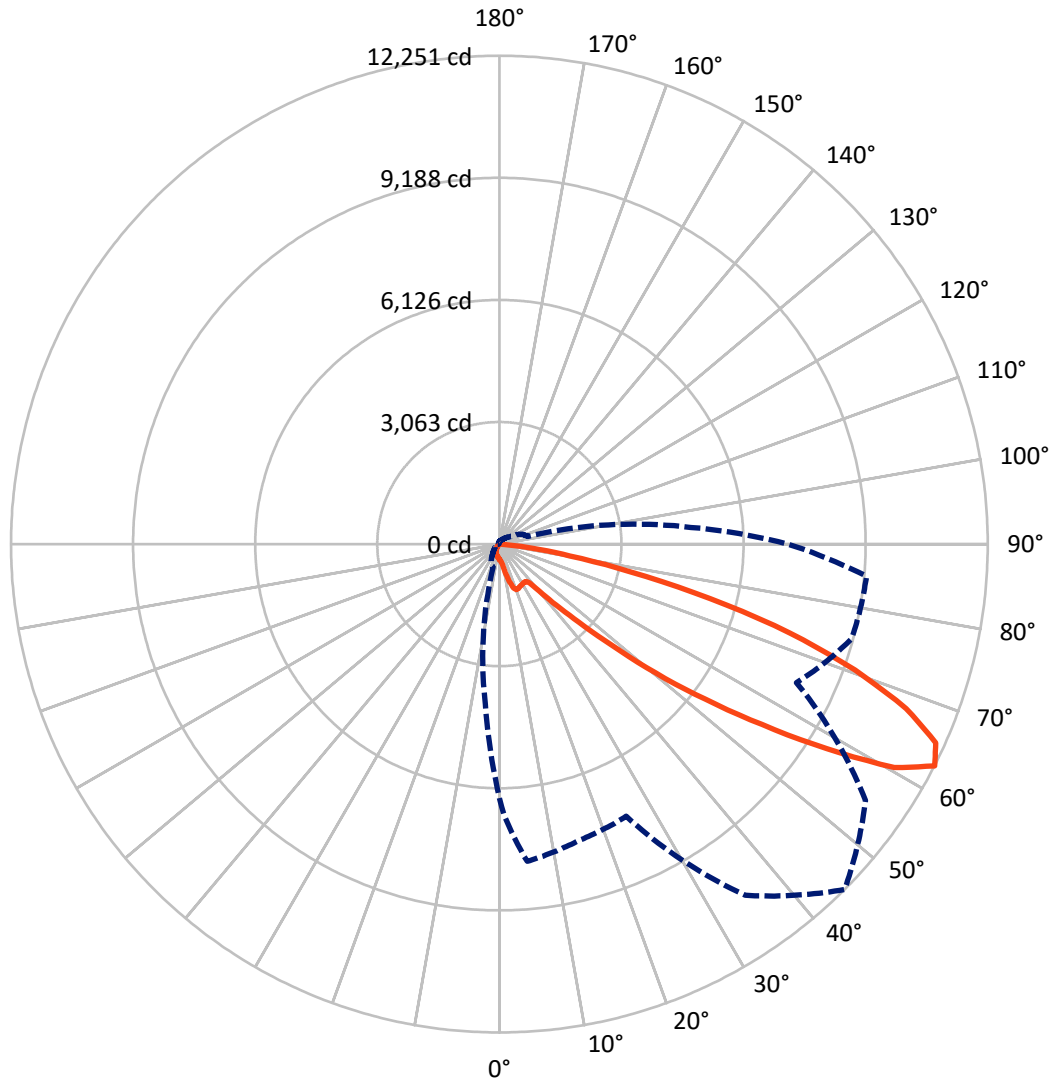
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 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	915.1	0.0	915.1
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	6500.7	0.0	6500.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	7415.8	0.0	7415.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.2	0.5
10°-20°	129.3	1.7
20°-30°	281.1	3.8
30°-40°	461.3	6.2
40°-50°	848.0	11.4
50°-60°	1821.2	24.6
60°-70°	2446.2	33.0
70°-80°	1273.7	17.2
80°-90°	120.8	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°	7415.8	100.0
0°-180°	7415.8	100.0

**Coefficient of Utilization**



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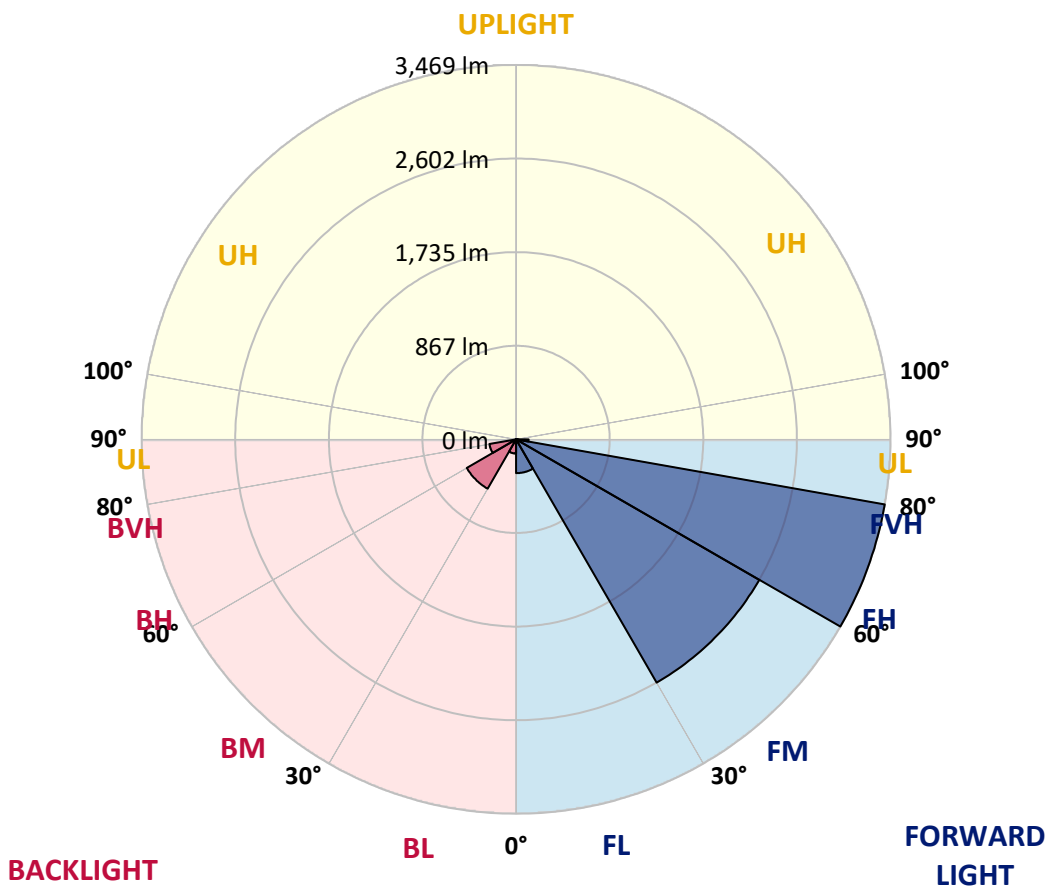
CATALOG NUMBER: GWS-SA2F-722-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.3	4.2			
FM (30°-60°)	2602.9	35.1			
FH (60°-80°)	3469.2	46.8			G2/5000
FVH (80°-90°)	115.4	1.6			G2/225
BL (0°-30°)	131.3	1.8	B1/500		
BM (30°-60°)	527.7	7.1	B1/1000		
BH (60°-80°)	250.7	3.4	B1/500		G1/500
BVH (80°-90°)	5.4	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°	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5
2.5°	393.2	394.9	396.6	402.6	406.9	410.3	411.2	408.6	402.6	396.6	388.0
5°	381.2	382.9	388.9	405.2	421.4	434.3	438.6	436.0	421.4	402.6	382.9
7.5°	380.3	383.8	398.3	432.6	467.7	494.3	501.1	495.1	467.7	430.0	389.7
10°	411.2	417.2	438.6	500.2	564.5	611.6	630.5	604.8	561.1	492.5	426.6
12.5°	491.7	502.0	543.1	633.0	732.4	794.9	820.6	788.9	720.4	621.0	516.5
15°	618.5	633.9	695.6	830.0	947.4	1003.1	1011.6	993.6	914.0	804.3	663.9
17.5°	797.5	819.8	915.7	1052.8	1137.6	1157.3	1154.7	1135.8	1077.6	1002.2	869.4
20°	1011.6	1038.2	1132.4	1245.5	1254.1	1230.9	1218.1	1206.9	1187.2	1174.4	1070.7
22.5°	1227.5	1260.0	1358.6	1386.8	1309.7	1242.9	1211.2	1219.8	1248.9	1312.3	1270.3
25°	1442.5	1473.3	1565.9	1489.6	1335.4	1224.1	1183.8	1204.4	1273.8	1410.8	1464.8
27.5°	1693.5	1716.6	1771.4	1559.9	1339.7	1208.7	1169.2	1200.9	1285.7	1472.5	1678.1
30°	1954.7	1968.4	1941.9	1578.7	1325.1	1185.5	1154.7	1200.9	1306.3	1513.6	1838.2
32.5°	2146.6	2149.2	2062.7	1580.4	1317.4	1166.7	1141.0	1195.8	1326.0	1547.9	1993.3
35°	2344.5	2331.6	2178.3	1606.1	1338.0	1173.5	1151.3	1210.4	1356.8	1588.1	2129.5
37.5°	2544.9	2521.8	2307.7	1648.1	1391.1	1248.1	1234.3	1284.9	1406.5	1643.8	2279.4
40°	2750.5	2718.8	2442.1	1711.5	1509.3	1501.6	1548.7	1542.7	1542.7	1714.9	2433.6
42.5°	3001.5	2964.7	2640.9	1890.5	1785.1	1957.3	2085.8	2006.1	1858.8	1878.5	2634.0
45°	3333.0	3301.3	2985.2	2233.1	2217.7	2613.5	2786.5	2628.9	2262.3	2256.3	2968.9
47.5°	3863.2	3857.2	3534.3	2630.6	2747.1	3448.6	3782.7	3479.5	2722.2	2656.3	3602.8
50°	4608.5	4590.5	4218.7	3096.6	3376.7	4483.4	5079.6	4574.2	3278.2	3123.1	4451.7
52.5°	5447.9	5466.8	5177.2	3605.4	4045.7	5634.7	6464.7	5828.3	3882.1	3716.8	5519.9
55°	6238.6	6346.5	6270.3	4200.7	4699.3	6905.8	7986.0	7203.9	4629.9	4493.7	6717.4
57.5°	6857.0	7161.1	7695.6	5065.9	5467.6	8392.9	9684.6	8695.3	5502.7	5755.4	8347.5
60°	6891.3	7293.9	8535.1	6875.9	6456.1	9668.4	11380.7	10152.3	6875.0	7897.8	9624.7
62.5°	6374.8	6806.5	7988.6	7698.2	7532.9	10753.7	12251.0	11214.5	8225.0	9152.7	9246.1
65°	5783.7	6219.7	7378.7	6765.4	7407.8	10707.4	12030.0	11239.3	8347.5	8299.5	8568.5
67.5°	4890.3	5281.7	6331.1	5988.4	6827.9	10190.9	11008.9	10530.9	7690.5	7762.4	7882.4
70°	3569.4	3946.3	4920.3	4937.4	5962.7	9259.8	9459.3	9393.4	7082.3	7158.5	6815.9
72.5°	2578.3	2896.1	3736.5	4049.1	4760.1	7765.0	7627.1	7881.5	6076.7	6375.6	5474.5
75°	1853.7	2091.8	2741.1	3522.3	3773.3	5766.6	5459.9	6104.1	4875.7	5489.9	4115.9
77.5°	752.1	836.0	1078.4	2372.8	2479.8	3879.5	3342.4	4433.7	3476.1	3607.1	1995.0
80°	30.8	34.3	44.5	1224.9	1700.3	2182.6	1788.6	2370.2	2295.7	1452.8	471.1
82.5°	3.4	3.4	7.7	352.9	744.4	1204.4	842.9	1365.4	1162.4	615.9	214.1
85°	0.9	0.9	1.7	40.3	174.7	192.7	113.9	418.9	540.5	251.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	7.7	8.6	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°	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5
2.5°	388.0	383.8	378.6	373.5	370.9	364.1	361.5	359.8	358.1	358.9	358.9
5°	375.2	365.8	354.6	343.5	337.5	330.6	327.2	325.5	326.4	329.8	329.8
7.5°	373.5	355.5	331.5	316.9	310.1	304.9	301.5	299.8	300.7	304.9	306.7
10°	401.7	370.0	327.2	302.4	294.7	289.5	286.1	283.5	281.8	285.2	286.1
12.5°	462.6	418.9	347.8	300.7	287.0	280.1	277.5	272.4	269.8	271.5	272.4
15°	588.5	513.1	388.9	307.5	280.1	272.4	268.1	263.8	259.5	258.7	259.5
17.5°	752.9	645.0	451.4	323.8	275.0	265.5	259.5	253.6	247.6	246.7	245.8
20°	956.8	806.9	538.8	349.5	270.7	259.5	251.0	242.4	234.7	232.1	232.1
22.5°	1142.7	1002.2	651.0	381.2	264.7	251.0	240.7	230.4	221.9	217.6	216.7
25°	1369.7	1209.5	785.5	418.0	256.1	239.8	228.7	218.4	209.9	204.7	203.0
27.5°	1598.4	1427.9	938.0	466.0	245.8	228.7	218.4	209.0	199.6	193.6	191.9
30°	1820.3	1663.5	1109.3	525.9	238.1	217.6	209.0	199.6	191.0	181.6	179.0
32.5°	2058.4	1904.2	1301.2	592.8	232.1	209.9	200.4	191.9	180.7	172.2	167.9
35°	2288.0	2152.6	1512.7	657.9	226.1	203.0	192.7	184.2	172.2	162.8	156.8
37.5°	2519.2	2405.3	1733.7	697.3	217.6	193.6	184.2	177.3	163.6	152.5	145.6
40°	2764.2	2666.6	1972.7	681.0	209.9	183.3	178.2	170.5	155.0	142.2	133.6
42.5°	3033.2	2915.8	2216.0	618.5	203.0	174.7	169.6	161.9	147.3	131.9	120.8
45°	3371.5	3189.1	2415.6	524.2	206.4	166.2	155.9	154.2	140.5	120.8	107.1
47.5°	3953.2	3608.8	2570.6	463.4	229.6	156.8	144.8	149.0	134.5	109.6	94.2
50°	4843.2	4304.4	2715.4	459.1	264.7	152.5	134.5	145.6	128.5	98.5	83.1
52.5°	5691.2	5011.1	2807.9	496.8	295.5	163.6	124.2	141.3	124.2	90.8	75.4
55°	6502.4	5418.8	2642.6	524.2	324.6	197.0	116.5	134.5	119.1	86.5	72.8
57.5°	7377.0	5600.4	2080.7	579.9	345.2	225.3	118.2	124.2	112.2	83.9	72.0
60°	7638.2	5368.3	1255.8	652.7	334.1	233.8	131.1	110.5	102.8	78.8	69.4
62.5°	7232.2	4817.5	741.0	594.5	324.6	221.0	149.9	101.9	93.4	72.0	64.2
65°	6624.9	4069.7	483.1	502.0	344.3	197.0	159.3	97.7	84.8	65.1	56.5
67.5°	5931.0	3278.2	338.4	296.4	317.8	177.3	134.5	96.8	76.2	54.8	46.3
70°	4995.6	2455.0	238.1	196.2	264.7	157.6	104.5	94.2	66.8	44.5	36.0
72.5°	3859.8	1536.7	177.3	126.8	188.5	128.5	83.1	79.7	54.0	36.8	27.4
75°	2846.5	876.3	125.1	91.7	124.2	97.7	61.7	56.5	46.3	35.1	24.8
77.5°	1486.2	438.6	77.9	70.2	71.1	60.8	44.5	41.1	42.8	35.1	23.1
80°	285.2	87.4	47.1	51.4	38.5	38.5	32.6	34.3	37.7	28.3	19.7
82.5°	119.1	18.8	25.7	29.1	24.0	26.6	26.6	27.4	26.6	20.6	14.6
85°	0.0	0.0	11.1	12.0	16.3	16.3	13.7	13.7	13.7	12.0	8.6
87.5°	0.0	0.0	0.0	0.0	0.9	2.6	5.1	6.0	6.9	5.1	3.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5
2.5°	358.1	356.3	358.9	360.6	362.3	362.3	360.6	358.9	356.3	358.9	356.3
5°	330.6	333.2	337.5	339.2	340.9	337.5	335.8	330.6	326.4	327.2	325.5
7.5°	309.2	311.8	316.9	320.4	320.4	318.7	313.5	308.4	301.5	301.5	300.7
10°	289.5	293.0	299.0	303.2	304.9	303.2	298.1	291.2	285.2	285.2	282.7
12.5°	273.3	277.5	284.4	290.4	292.1	290.4	285.2	278.4	271.5	271.5	269.8
15°	259.5	264.7	272.4	279.2	281.8	279.2	273.3	264.7	257.8	258.7	256.1
17.5°	246.7	251.0	261.3	269.0	271.5	269.0	261.3	250.1	243.3	245.0	243.3
20°	232.1	237.3	247.6	256.1	258.7	256.1	247.6	235.6	228.7	228.7	229.6
22.5°	216.7	221.9	232.1	238.1	241.6	239.0	230.4	219.3	212.4	212.4	213.3
25°	203.0	205.6	213.3	219.3	220.1	217.6	210.7	202.2	197.0	199.6	200.4
27.5°	190.2	190.2	193.6	197.0	196.2	193.6	191.0	184.2	183.3	185.9	188.5
30°	176.5	172.2	170.5	167.9	167.0	166.2	168.7	168.7	170.5	173.9	176.5
32.5°	164.5	155.9	148.2	140.5	136.2	139.6	146.5	152.5	158.5	163.6	166.2
35°	150.8	137.1	124.2	113.9	107.1	112.2	123.3	134.5	144.8	151.6	155.9
37.5°	137.1	117.4	101.9	89.1	83.9	88.2	100.2	115.6	131.1	139.6	145.6
40°	122.5	97.7	79.7	69.4	64.2	68.5	80.5	95.9	116.5	127.6	135.3
42.5°	107.9	80.5	64.2	54.0	51.4	54.0	63.4	78.8	101.1	114.8	125.1
45°	93.4	66.8	51.4	43.7	41.1	43.7	51.4	64.2	86.5	101.9	113.9
47.5°	80.5	56.5	42.8	36.0	34.3	36.8	42.8	54.0	72.8	88.2	101.9
50°	70.2	49.7	36.8	30.8	29.1	31.7	36.8	45.4	61.7	75.4	89.9
52.5°	63.4	46.3	32.6	26.6	25.7	27.4	31.7	38.5	52.3	64.2	77.9
55°	61.7	46.3	30.0	24.0	23.1	24.8	28.3	33.4	45.4	55.7	67.7
57.5°	63.4	49.7	28.3	20.6	19.7	21.4	24.8	29.1	39.4	48.0	59.1
60°	63.4	50.5	24.8	16.3	15.4	17.1	20.6	25.7	35.1	42.0	51.4
62.5°	57.4	46.3	20.6	12.8	11.1	12.8	17.1	21.4	30.8	37.7	45.4
65°	49.7	39.4	17.1	9.4	7.7	9.4	13.7	18.0	26.6	32.6	41.1
67.5°	40.3	30.0	12.8	6.9	5.1	6.9	10.3	14.6	22.3	28.3	36.8
70°	30.0	21.4	10.3	6.0	5.1	6.0	9.4	13.7	19.7	25.7	34.3
72.5°	22.3	14.6	8.6	6.0	4.3	6.0	8.6	12.8	18.8	24.8	32.6
75°	18.8	12.0	7.7	5.1	4.3	5.1	7.7	12.0	17.1	23.1	30.8
77.5°	18.0	11.1	6.9	4.3	3.4	4.3	6.9	10.3	15.4	21.4	30.0
80°	15.4	9.4	6.0	3.4	2.6	3.4	6.0	8.6	12.0	16.3	23.1
82.5°	12.0	7.7	4.3	1.7	0.9	1.7	4.3	5.1	7.7	9.4	13.7
85°	7.7	4.3	1.7	0.0	0.0	0.0	1.7	3.4	3.4	4.3	6.9
87.5°	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	2.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5
2.5°	361.5	362.3	364.1	366.6	372.6	377.8	382.9	389.7	393.2	393.2
5°	327.2	328.1	328.9	332.4	340.9	347.8	358.9	372.6	379.5	381.2
7.5°	300.7	302.4	304.1	306.7	315.2	324.6	339.2	364.9	377.8	380.3
10°	285.2	287.8	291.2	296.4	304.1	314.4	339.2	385.5	406.9	411.2
12.5°	273.3	277.5	281.0	287.0	296.4	312.7	362.3	443.7	481.4	491.7
15°	261.3	266.4	271.5	277.5	287.8	318.7	406.9	548.2	610.8	618.5
17.5°	249.3	255.3	262.1	269.0	281.8	333.2	477.1	693.0	780.4	797.5
20°	235.6	243.3	252.7	261.3	275.8	356.3	574.8	865.2	974.8	1011.6
22.5°	221.0	230.4	241.6	252.7	269.0	384.6	693.0	1050.2	1203.5	1227.5
25°	209.0	218.4	228.7	239.8	257.8	418.9	836.0	1279.7	1419.4	1442.5
27.5°	197.9	207.3	216.7	227.0	246.7	463.4	1008.2	1523.9	1669.5	1693.5
30°	185.9	197.0	206.4	216.7	236.4	518.2	1206.9	1794.6	1932.5	1954.7
32.5°	175.6	186.7	196.2	206.4	228.7	578.2	1415.9	2034.4	2146.6	2146.6
35°	167.0	179.0	185.9	199.6	222.7	616.7	1613.8	2263.1	2347.9	2344.5
37.5°	157.6	172.2	177.3	186.7	215.0	621.0	1799.7	2504.7	2567.2	2544.9
40°	148.2	163.6	171.3	176.5	206.4	585.9	2003.6	2726.5	2779.6	2750.5
42.5°	139.6	151.6	162.8	168.7	201.3	524.2	2167.2	2963.8	3027.2	3001.5
45°	131.1	141.3	148.2	159.3	204.7	481.4	2307.7	3240.5	3351.8	3333.0
47.5°	122.5	131.1	135.3	152.5	227.9	461.7	2393.3	3668.8	3878.6	3863.2
50°	113.1	123.3	123.3	150.8	262.1	468.6	2467.8	4289.0	4613.6	4608.5
52.5°	103.6	114.8	113.1	163.6	288.7	500.2	2552.6	4836.3	5400.8	5447.9
55°	94.2	104.5	106.2	189.3	304.1	527.7	2224.6	5066.7	6073.2	6238.6
57.5°	83.9	89.9	110.5	209.0	299.0	607.3	1523.9	5108.7	6502.4	6857.0
60°	72.8	77.9	125.1	204.7	282.7	561.1	959.4	4731.8	6441.6	6891.3
62.5°	63.4	72.0	131.9	180.7	287.8	486.5	611.6	4032.8	5861.7	6374.8
65°	55.7	69.4	119.9	163.6	291.2	329.8	412.9	3280.7	5295.5	5783.7
67.5°	49.7	77.1	98.5	145.6	250.1	232.1	283.5	2549.2	4452.6	4890.3
70°	45.4	78.8	80.5	125.1	193.6	149.0	186.7	1715.8	3069.2	3569.4
72.5°	41.1	58.2	60.8	100.2	125.1	90.8	120.8	981.7	2237.4	2578.3
75°	39.4	39.4	42.0	65.1	69.4	66.0	77.9	585.9	1604.4	1853.7
77.5°	36.8	30.0	26.6	42.0	37.7	47.1	46.3	260.4	695.6	752.1
80°	29.1	21.4	18.0	26.6	25.7	31.7	27.4	21.4	31.7	30.8
82.5°	18.0	13.7	12.8	16.3	14.6	16.3	12.8	3.4	3.4	3.4
85°	8.6	7.7	6.9	6.9	7.7	6.9	5.1	1.7	0.9	0.9
87.5°	4.3	4.3	3.4	2.6	3.4	3.4	2.6	0.9	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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