

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: P633755

Luminaire Tested: GWS-SA2F-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633755  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

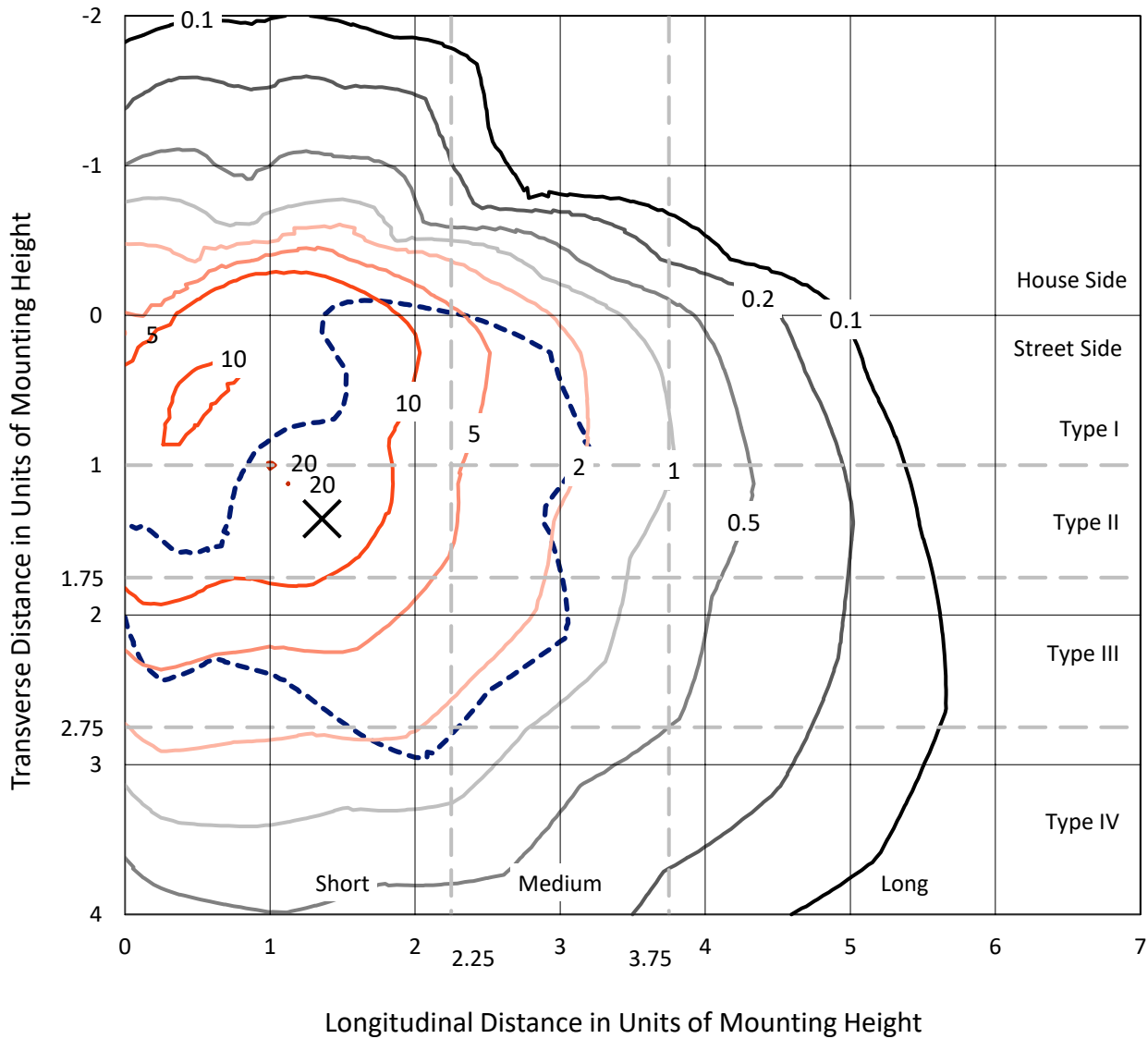
Lumens per Lamp: N/A  
Luminaire Lumens: 9929.7 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

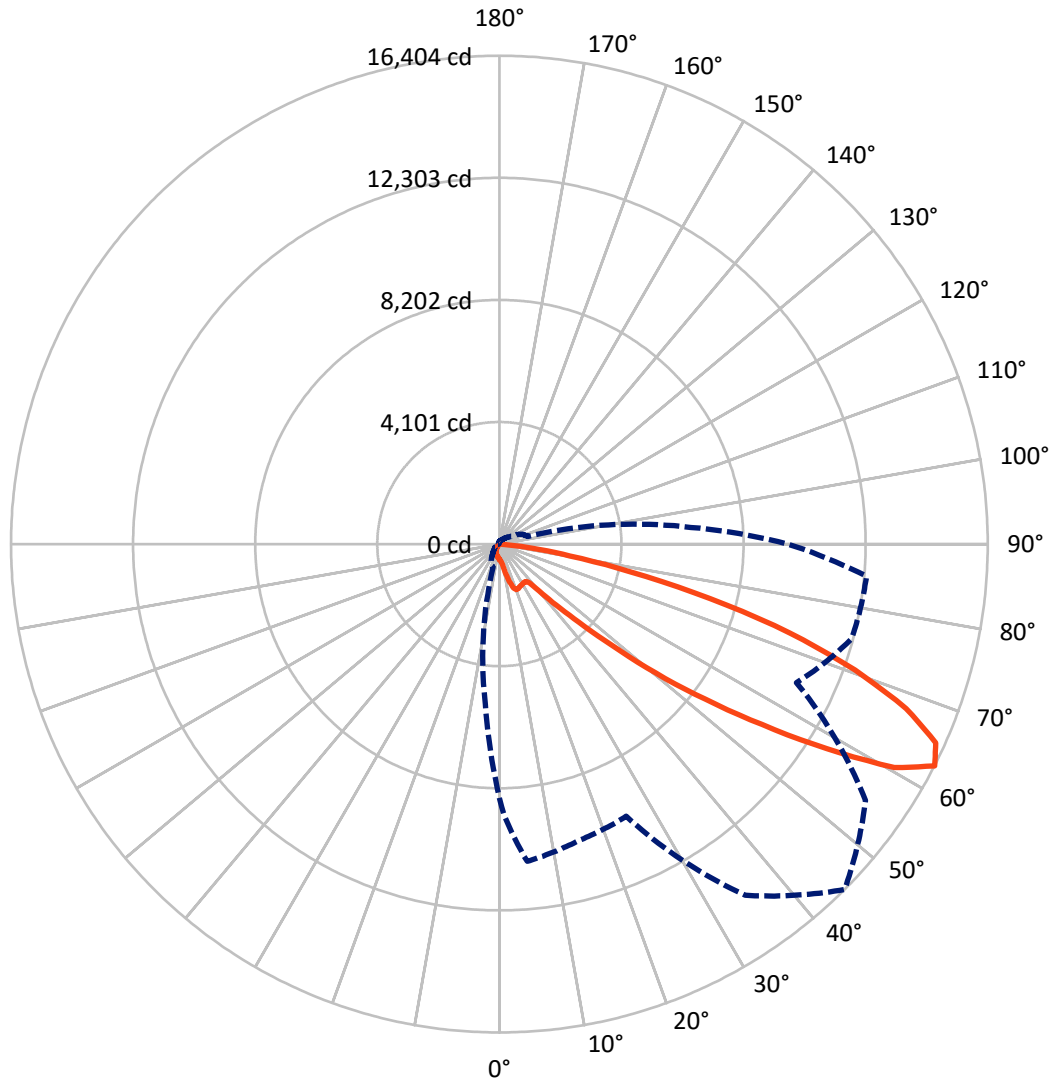
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 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	1225.3	0.0	1225.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	8704.4	0.0	8704.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	9929.7	0.0	9929.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	0.5
10°-20°	173.1	1.7
20°-30°	376.3	3.8
30°-40°	617.7	6.2
40°-50°	1135.5	11.4
50°-60°	2438.6	24.6
60°-70°	3275.4	33.0
70°-80°	1705.5	17.2
80°-90°	161.7	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°	9929.7	100.0
0°-180°	9929.7	100.0

**Coefficient of Utilization**



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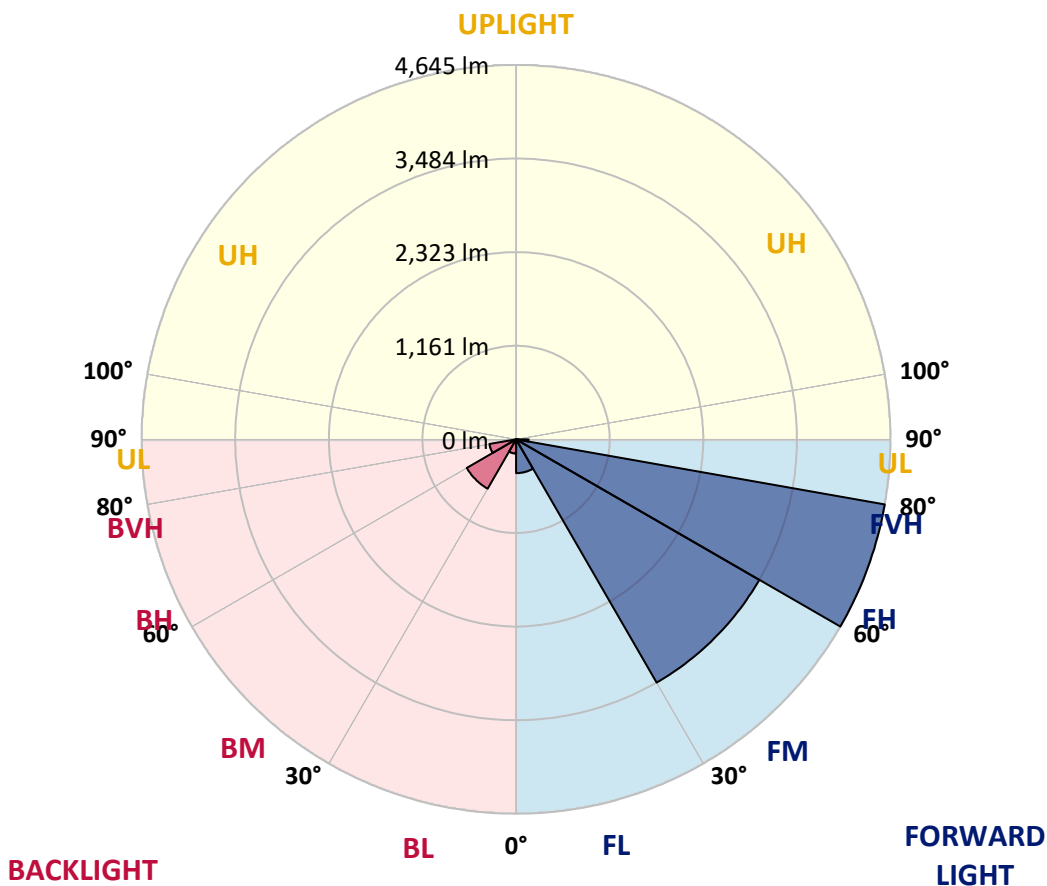
CATALOG NUMBER: GWS-SA2F-735-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.5	4.2			
FM (30°-60°)	3485.2	35.1			
FH (60°-80°)	4645.2	46.8			G2/5000
FVH (80°-90°)	154.5	1.6			G2/225
BL (0°-30°)	175.8	1.8	B1/500		
BM (30°-60°)	706.6	7.1	B1/1000		
BH (60°-80°)	335.7	3.4	B1/500		G1/500
BVH (80°-90°)	7.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
2.5°	526.5	528.8	531.0	539.1	544.8	549.4	550.5	547.1	539.1	531.0	519.6
5°	510.4	512.7	520.7	542.5	564.3	581.5	587.2	583.8	564.3	539.1	512.7
7.5°	509.3	513.8	533.3	579.2	626.2	661.8	671.0	662.9	626.2	575.8	521.9
10°	550.5	558.6	587.2	669.8	755.9	818.9	844.2	809.8	751.3	659.5	571.2
12.5°	658.4	672.1	727.2	847.6	980.7	1064.4	1098.8	1056.4	964.6	831.6	691.6
15°	828.1	848.8	931.3	1111.4	1268.5	1343.1	1354.6	1330.5	1223.8	1077.0	888.9
17.5°	1067.8	1097.7	1226.1	1409.6	1523.2	1549.6	1546.1	1520.9	1442.9	1342.0	1164.2
20°	1354.6	1390.1	1516.3	1667.7	1679.2	1648.2	1631.0	1616.1	1589.7	1572.5	1433.7
22.5°	1643.6	1687.2	1819.1	1856.9	1753.7	1664.3	1621.8	1633.3	1672.3	1757.2	1701.0
25°	1931.5	1972.8	2096.7	1994.6	1788.1	1639.0	1585.1	1612.6	1705.5	1889.1	1961.3
27.5°	2267.6	2298.5	2371.9	2088.6	1793.9	1618.4	1565.6	1608.1	1721.6	1971.6	2246.9
30°	2617.4	2635.7	2600.2	2113.9	1774.4	1587.4	1546.1	1608.1	1749.1	2026.7	2461.4
32.5°	2874.3	2877.7	2761.9	2116.2	1764.0	1562.2	1527.8	1601.2	1775.5	2072.6	2669.0
35°	3139.3	3122.1	2916.7	2150.6	1791.6	1571.3	1541.5	1620.7	1816.8	2126.5	2851.4
37.5°	3407.6	3376.7	3089.9	2206.8	1862.7	1671.1	1652.8	1720.5	1883.3	2201.0	3052.1
40°	3682.9	3640.5	3270.0	2291.6	2021.0	2010.6	2073.7	2065.7	2065.7	2296.2	3258.5
42.5°	4019.0	3969.7	3536.1	2531.4	2390.3	2620.8	2792.9	2686.2	2488.9	2515.3	3526.9
45°	4462.9	4420.4	3997.2	2990.2	2969.5	3499.4	3731.1	3520.1	3029.1	3021.1	3975.4
47.5°	5172.8	5164.8	4732.4	3522.3	3678.3	4617.7	5065.0	4659.0	3645.1	3556.8	4824.2
50°	6170.7	6146.6	5648.8	4146.3	4521.4	6003.2	6801.5	6124.8	4389.5	4181.9	5960.8
52.5°	7294.7	7320.0	6932.3	4827.6	5417.1	7544.8	8656.2	7804.0	5198.1	4976.7	7391.1
55°	8353.4	8497.9	8395.8	5624.7	6292.3	9246.9	10693.2	9646.0	6199.4	6017.0	8994.5
57.5°	9181.5	9588.7	10304.4	6783.2	7321.1	11238.0	12967.6	11642.9	7368.1	7706.5	11177.2
60°	9227.4	9766.5	11428.4	9206.7	8644.7	12945.9	15238.6	13593.9	9205.6	10575.1	12887.4
62.5°	8535.8	9113.8	10696.6	10307.8	10086.5	14399.1	16404.0	15016.1	11013.2	12255.4	12380.4
65°	7744.3	8328.2	9880.0	9058.8	9919.0	14337.1	16108.0	15049.4	11177.2	11113.0	11473.1
67.5°	6548.1	7072.2	8477.3	8018.5	9142.5	13645.5	14740.9	14100.9	10297.5	10393.8	10554.4
70°	4779.4	5284.1	6588.2	6611.1	7984.1	12398.7	12666.0	12577.7	9483.1	9585.2	9126.4
72.5°	3452.4	3877.9	5003.1	5421.7	6373.7	10397.3	10212.6	10553.3	8136.6	8536.9	7330.3
75°	2482.0	2800.9	3670.3	4716.3	5052.4	7721.4	7310.8	8173.3	6528.6	7350.9	5511.2
77.5°	1007.0	1119.4	1444.0	3177.1	3320.5	5194.6	4475.5	5936.7	4654.4	4829.9	2671.3
80°	41.3	45.9	59.6	1640.2	2276.7	2922.5	2394.9	3173.7	3073.9	1945.3	630.8
82.5°	4.6	4.6	10.3	472.6	996.7	1612.6	1128.6	1828.3	1556.4	824.7	286.7
85°	1.1	1.1	2.3	53.9	234.0	258.1	152.5	560.9	723.7	337.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	10.3	11.5	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°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
2.5°	519.6	513.8	507.0	500.1	496.6	487.5	484.0	481.7	479.4	480.6	480.6
5°	502.4	489.8	474.8	459.9	451.9	442.7	438.1	435.8	437.0	441.6	441.6
7.5°	500.1	476.0	443.9	424.4	415.2	408.3	403.7	401.4	402.6	408.3	410.6
10°	537.9	495.5	438.1	404.9	394.6	387.7	383.1	379.6	377.4	381.9	383.1
12.5°	619.4	560.9	465.7	402.6	384.2	375.1	371.6	364.7	361.3	363.6	364.7
15°	788.0	687.0	520.7	411.8	375.1	364.7	359.0	353.3	347.5	346.4	347.5
17.5°	1008.2	863.7	604.5	433.6	368.2	355.6	347.5	339.5	331.5	330.3	329.2
20°	1281.2	1080.4	721.4	468.0	362.4	347.5	336.1	324.6	314.3	310.8	310.8
22.5°	1530.1	1342.0	871.7	510.4	354.4	336.1	322.3	308.5	297.1	291.3	290.2
25°	1834.0	1619.5	1051.8	559.7	342.9	321.2	306.2	292.5	281.0	274.1	271.8
27.5°	2140.2	1912.0	1255.9	624.0	329.2	306.2	292.5	279.9	267.2	259.2	256.9
30°	2437.3	2227.4	1485.3	704.2	318.9	291.3	279.9	267.2	255.8	243.2	239.7
32.5°	2756.2	2549.7	1742.2	793.7	310.8	281.0	268.4	256.9	242.0	230.5	224.8
35°	3063.6	2882.3	2025.5	880.9	302.8	271.8	258.1	246.6	230.5	217.9	209.9
37.5°	3373.2	3220.7	2321.5	933.6	291.3	259.2	246.6	237.4	219.1	204.2	195.0
40°	3701.3	3570.5	2641.5	911.8	281.0	245.5	238.6	228.2	207.6	190.4	178.9
42.5°	4061.4	3904.3	2967.2	828.1	271.8	234.0	227.1	216.8	197.3	176.6	161.7
45°	4514.5	4270.2	3234.5	701.9	276.4	222.5	208.7	206.5	188.1	161.7	143.4
47.5°	5293.3	4832.2	3442.1	620.5	307.4	209.9	193.8	199.6	180.1	146.8	126.2
50°	6485.0	5763.5	3635.9	614.8	354.4	204.2	180.1	195.0	172.0	131.9	111.3
52.5°	7620.5	6709.8	3759.8	665.2	395.7	219.1	166.3	189.3	166.3	121.6	100.9
55°	8706.7	7255.7	3538.4	701.9	434.7	263.8	156.0	180.1	159.4	115.8	97.5
57.5°	9877.7	7498.9	2786.0	776.5	462.2	301.7	158.3	166.3	150.3	112.4	96.3
60°	10227.5	7188.1	1681.5	874.0	447.3	313.1	175.5	148.0	137.6	105.5	92.9
62.5°	9683.9	6450.6	992.1	796.0	434.7	295.9	200.7	136.5	125.0	96.3	86.0
65°	8870.7	5449.3	646.9	672.1	461.1	263.8	213.3	130.8	113.6	87.2	75.7
67.5°	7941.6	4389.5	453.1	396.9	425.5	237.4	180.1	129.6	102.1	73.4	61.9
70°	6689.1	3287.2	318.9	262.7	354.4	211.0	139.9	126.2	89.5	59.6	48.2
72.5°	5168.2	2057.7	237.4	169.8	252.3	172.0	111.3	106.7	72.3	49.3	36.7
75°	3811.4	1173.4	167.5	122.7	166.3	130.8	82.6	75.7	61.9	47.0	33.3
77.5°	1990.0	587.2	104.4	94.1	95.2	81.4	59.6	55.1	57.3	47.0	31.0
80°	381.9	117.0	63.1	68.8	51.6	51.6	43.6	45.9	50.5	37.9	26.4
82.5°	159.4	25.2	34.4	39.0	32.1	35.6	35.6	36.7	35.6	27.5	19.5
85°	0.0	0.0	14.9	16.1	21.8	21.8	18.4	18.4	18.4	16.1	11.5
87.5°	0.0	0.0	0.0	0.0	1.1	3.4	6.9	8.0	9.2	6.9	4.6
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°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
2.5°	479.4	477.1	480.6	482.9	485.2	485.2	482.9	480.6	477.1	480.6	477.1
5°	442.7	446.2	451.9	454.2	456.5	451.9	449.6	442.7	437.0	438.1	435.8
7.5°	414.1	417.5	424.4	429.0	429.0	426.7	419.8	412.9	403.7	403.7	402.6
10°	387.7	392.3	400.3	406.0	408.3	406.0	399.1	390.0	381.9	381.9	378.5
12.5°	365.9	371.6	380.8	388.8	391.1	388.8	381.9	372.8	363.6	363.6	361.3
15°	347.5	354.4	364.7	373.9	377.4	373.9	365.9	354.4	345.2	346.4	342.9
17.5°	330.3	336.1	349.8	360.1	363.6	360.1	349.8	334.9	325.7	328.0	325.7
20°	310.8	317.7	331.5	342.9	346.4	342.9	331.5	315.4	306.2	306.2	307.4
22.5°	290.2	297.1	310.8	318.9	323.4	320.0	308.5	293.6	284.4	284.4	285.6
25°	271.8	275.3	285.6	293.6	294.8	291.3	282.2	270.7	263.8	267.2	268.4
27.5°	254.6	254.6	259.2	263.8	262.7	259.2	255.8	246.6	245.5	248.9	252.3
30°	236.3	230.5	228.2	224.8	223.7	222.5	226.0	226.0	228.2	232.8	236.3
32.5°	220.2	208.7	198.4	188.1	182.4	187.0	196.1	204.2	212.2	219.1	222.5
35°	201.9	183.5	166.3	152.5	143.4	150.3	165.2	180.1	193.8	203.0	208.7
37.5°	183.5	157.1	136.5	119.3	112.4	118.1	134.2	154.8	175.5	187.0	195.0
40°	164.0	130.8	106.7	92.9	86.0	91.8	107.8	128.5	156.0	170.9	181.2
42.5°	144.5	107.8	86.0	72.3	68.8	72.3	84.9	105.5	135.3	153.7	167.5
45°	125.0	89.5	68.8	58.5	55.1	58.5	68.8	86.0	115.8	136.5	152.5
47.5°	107.8	75.7	57.3	48.2	45.9	49.3	57.3	72.3	97.5	118.1	136.5
50°	94.1	66.5	49.3	41.3	39.0	42.4	49.3	60.8	82.6	100.9	120.4
52.5°	84.9	61.9	43.6	35.6	34.4	36.7	42.4	51.6	70.0	86.0	104.4
55°	82.6	61.9	40.1	32.1	31.0	33.3	37.9	44.7	60.8	74.6	90.6
57.5°	84.9	66.5	37.9	27.5	26.4	28.7	33.3	39.0	52.8	64.2	79.1
60°	84.9	67.7	33.3	21.8	20.6	22.9	27.5	34.4	47.0	56.2	68.8
62.5°	76.8	61.9	27.5	17.2	14.9	17.2	22.9	28.7	41.3	50.5	60.8
65°	66.5	52.8	22.9	12.6	10.3	12.6	18.4	24.1	35.6	43.6	55.1
67.5°	53.9	40.1	17.2	9.2	6.9	9.2	13.8	19.5	29.8	37.9	49.3
70°	40.1	28.7	13.8	8.0	6.9	8.0	12.6	18.4	26.4	34.4	45.9
72.5°	29.8	19.5	11.5	8.0	5.7	8.0	11.5	17.2	25.2	33.3	43.6
75°	25.2	16.1	10.3	6.9	5.7	6.9	10.3	16.1	22.9	31.0	41.3
77.5°	24.1	14.9	9.2	5.7	4.6	5.7	9.2	13.8	20.6	28.7	40.1
80°	20.6	12.6	8.0	4.6	3.4	4.6	8.0	11.5	16.1	21.8	31.0
82.5°	16.1	10.3	5.7	2.3	1.1	2.3	5.7	6.9	10.3	12.6	18.4
85°	10.3	5.7	2.3	0.0	0.0	0.0	2.3	4.6	4.6	5.7	9.2
87.5°	4.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
2.5°	484.0	485.2	487.5	490.9	498.9	505.8	512.7	521.9	526.5	526.5
5°	438.1	439.3	440.4	445.0	456.5	465.7	480.6	498.9	508.1	510.4
7.5°	402.6	404.9	407.2	410.6	422.1	434.7	454.2	488.6	505.8	509.3
10°	381.9	385.4	390.0	396.9	407.2	420.9	454.2	516.1	544.8	550.5
12.5°	365.9	371.6	376.2	384.2	396.9	418.6	485.2	594.1	644.6	658.4
15°	349.8	356.7	363.6	371.6	385.4	426.7	544.8	734.1	817.8	828.1
17.5°	333.8	341.8	351.0	360.1	377.4	446.2	638.9	927.9	1044.9	1067.8
20°	315.4	325.7	338.4	349.8	369.3	477.1	769.6	1158.4	1305.3	1354.6
22.5°	295.9	308.5	323.4	338.4	360.1	515.0	927.9	1406.2	1611.5	1643.6
25°	279.9	292.5	306.2	321.2	345.2	560.9	1119.4	1713.6	1900.5	1931.5
27.5°	265.0	277.6	290.2	303.9	330.3	620.5	1350.0	2040.5	2235.4	2267.6
30°	248.9	263.8	276.4	290.2	316.6	693.9	1616.1	2402.9	2587.6	2617.4
32.5°	235.1	250.0	262.7	276.4	306.2	774.2	1895.9	2724.1	2874.3	2874.3
35°	223.7	239.7	248.9	267.2	298.2	825.8	2160.9	3030.3	3143.8	3139.3
37.5°	211.0	230.5	237.4	250.0	287.9	831.6	2409.8	3353.7	3437.5	3407.6
40°	198.4	219.1	229.4	236.3	276.4	784.5	2682.8	3650.8	3721.9	3682.9
42.5°	187.0	203.0	217.9	226.0	269.5	701.9	2901.8	3968.5	4053.4	4019.0
45°	175.5	189.3	198.4	213.3	274.1	644.6	3089.9	4339.0	4488.1	4462.9
47.5°	164.0	175.5	181.2	204.2	305.1	618.2	3204.6	4912.5	5193.5	5172.8
50°	151.4	165.2	165.2	201.9	351.0	627.4	3304.4	5742.9	6177.6	6170.7
52.5°	138.8	153.7	151.4	219.1	386.5	669.8	3418.0	6475.8	7231.6	7294.7
55°	126.2	139.9	142.2	253.5	407.2	706.5	2978.7	6784.3	8132.0	8353.4
57.5°	112.4	120.4	148.0	279.9	400.3	813.2	2040.5	6840.5	8706.7	9181.5
60°	97.5	104.4	167.5	274.1	378.5	751.3	1284.6	6335.9	8625.2	9227.4
62.5°	84.9	96.3	176.6	242.0	385.4	651.5	818.9	5399.9	7848.7	8535.8
65°	74.6	92.9	160.6	219.1	390.0	441.6	552.8	4392.9	7090.6	7744.3
67.5°	66.5	103.2	131.9	195.0	334.9	310.8	379.6	3413.4	5962.0	6548.1
70°	60.8	105.5	107.8	167.5	259.2	199.6	250.0	2297.4	4109.6	4779.4
72.5°	55.1	78.0	81.4	134.2	167.5	121.6	161.7	1314.4	2995.9	3452.4
75°	52.8	52.8	56.2	87.2	92.9	88.3	104.4	784.5	2148.3	2482.0
77.5°	49.3	40.1	35.6	56.2	50.5	63.1	61.9	348.7	931.3	1007.0
80°	39.0	28.7	24.1	35.6	34.4	42.4	36.7	28.7	42.4	41.3
82.5°	24.1	18.4	17.2	21.8	19.5	21.8	17.2	4.6	4.6	4.6
85°	11.5	10.3	9.2	9.2	10.3	9.2	6.9	2.3	1.1	1.1
87.5°	5.7	5.7	4.6	3.4	4.6	4.6	3.4	1.1	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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