

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: P638041

Luminaire Tested: GWS-SA4E-722-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638041  
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-SA4E-722-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

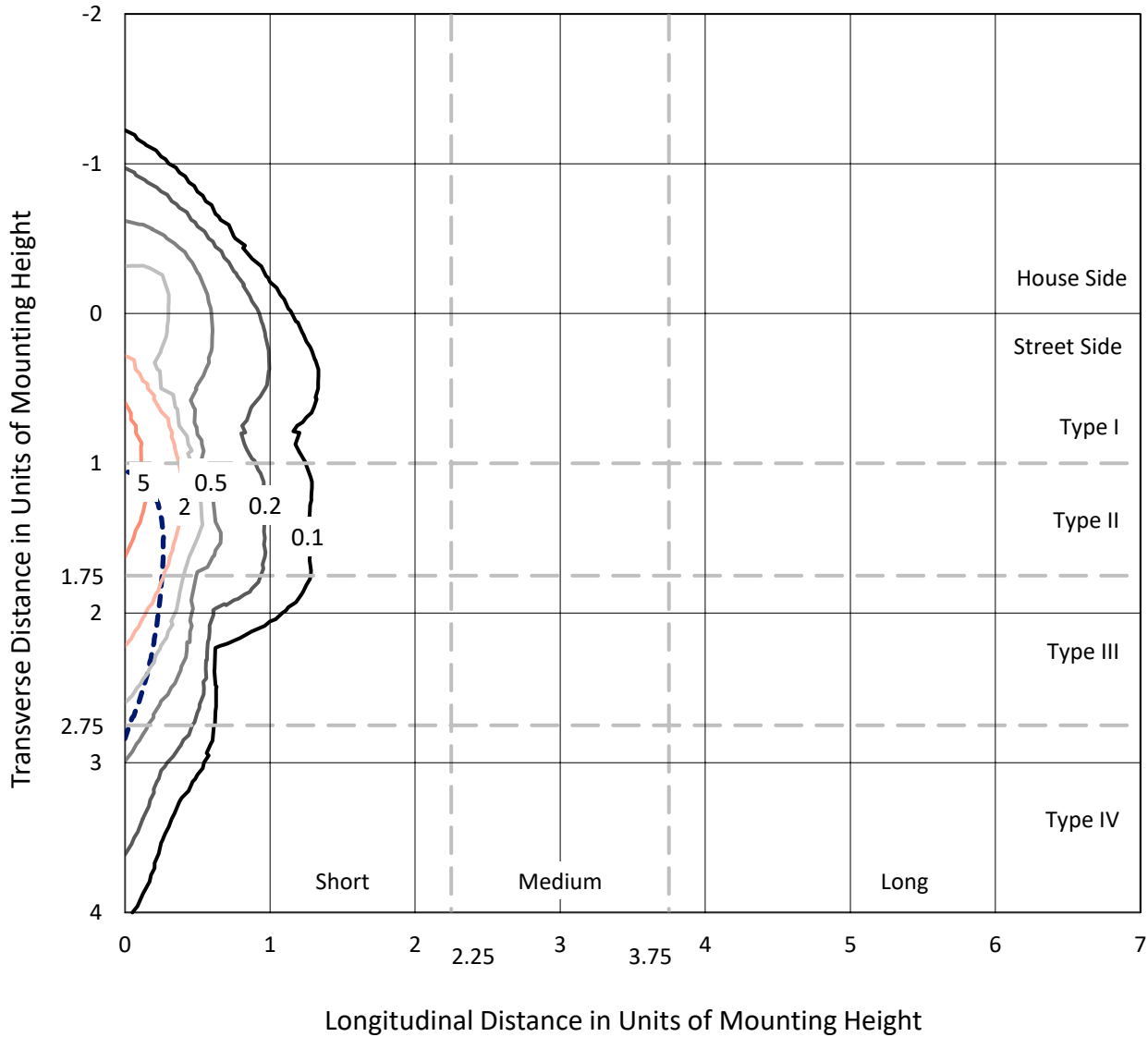
Lumens per Lamp: N/A  
Luminaire Lumens: 13648.3 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

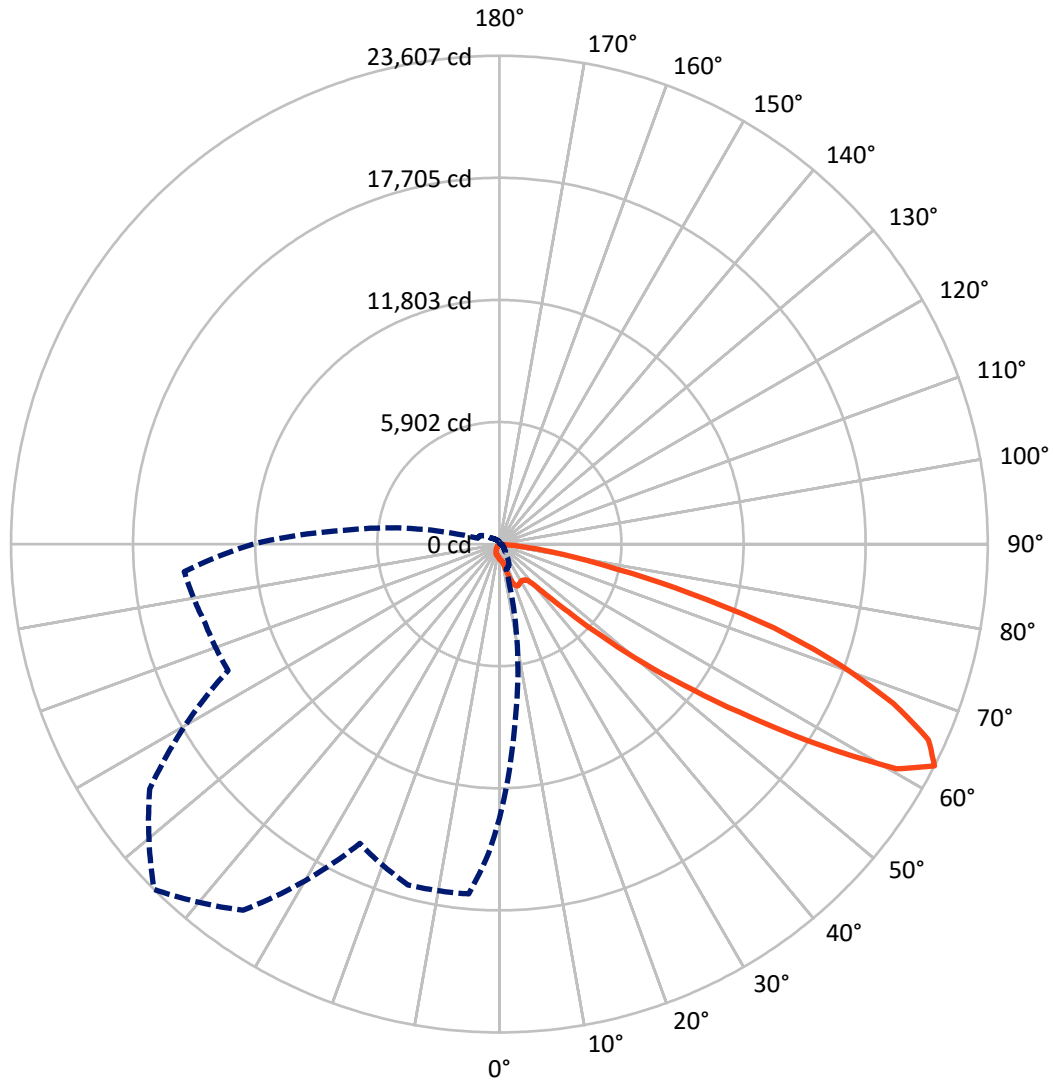
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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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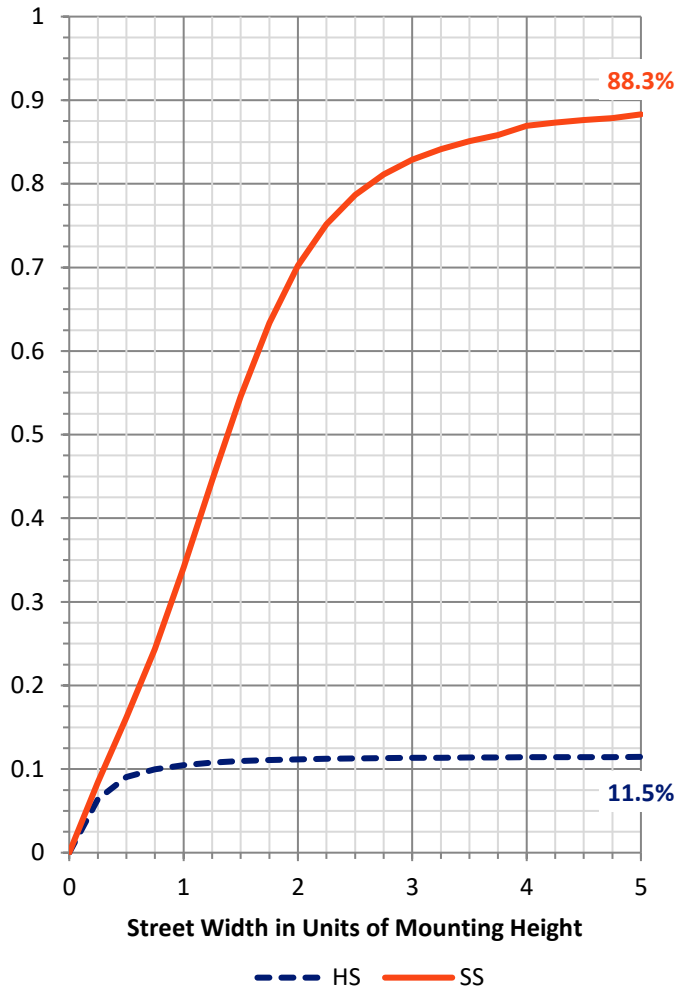
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1585.8	0.0	1585.8
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	12062.5	0.0	12062.5
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	13648.3	0.0	13648.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.1	0.4
10°-20°	209.5	1.5
20°-30°	473.3	3.5
30°-40°	815.3	6.0
40°-50°	1538.0	11.3
50°-60°	3434.0	25.2
60°-70°	4593.0	33.7
70°-80°	2303.2	16.9
80°-90°	220.8	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°	13648.3	100.0
0°-180°	13648.3	100.0

**Coefficient of Utilization**



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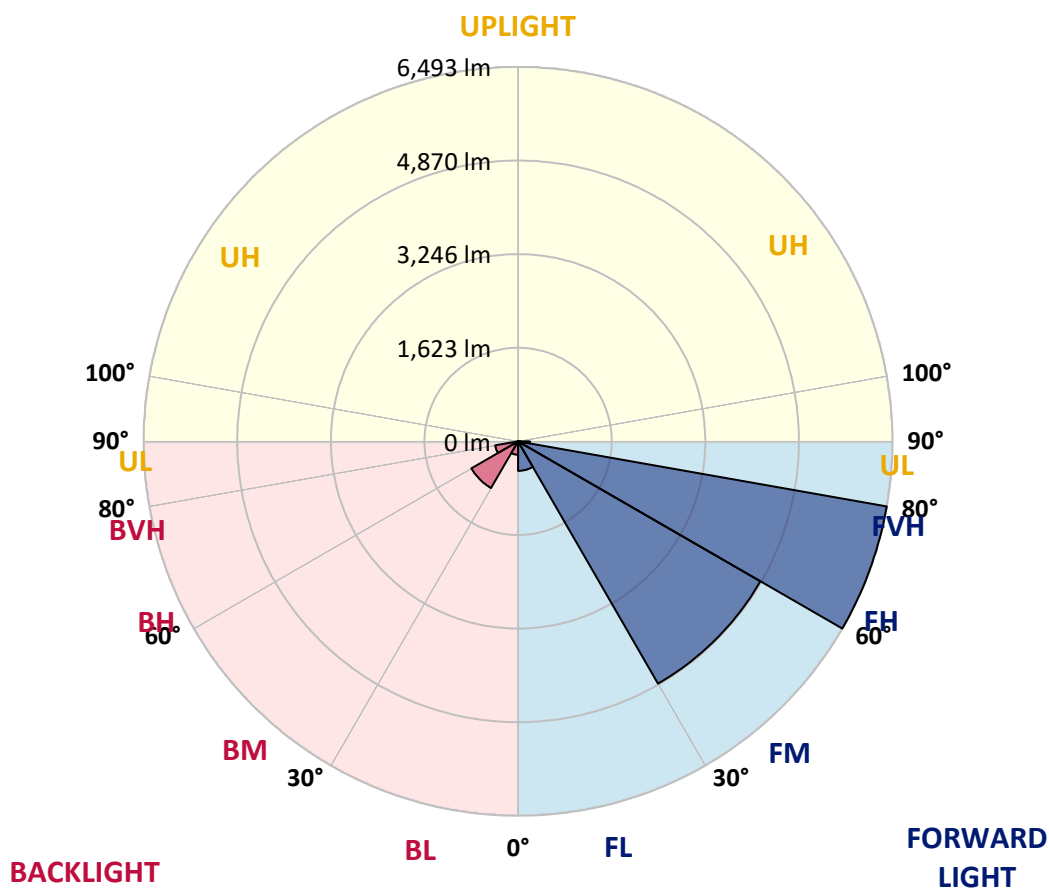
CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.1	3.7			
FM (30°-60°)	4852.4	35.6			
FH (60°-80°)	6492.9	47.6			G3/7500
FVH (80°-90°)	206.1	1.5			G2/225
BL (0°-30°)	232.8	1.7	B1/500		
BM (30°-60°)	935.1	6.9	B1/1000		
BH (60°-80°)	403.3	3.0	B1/500		G1/500
BVH (80°-90°)	14.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8
2.5°	699.7	698.1	694.9	685.2	677.1	672.3	662.6	662.6	661.0	657.7	651.3
5°	677.1	670.7	664.2	646.4	627.0	615.7	602.8	601.2	601.2	597.9	596.3
7.5°	641.6	635.1	627.0	597.9	580.2	568.8	557.5	555.9	551.1	551.1	551.1
10°	622.2	612.5	599.5	567.2	549.4	539.8	531.7	526.8	523.6	518.7	517.1
12.5°	664.2	646.4	618.9	560.8	536.5	523.6	513.9	510.7	501.0	494.5	489.7
15°	795.1	751.5	696.5	575.3	531.7	512.3	499.4	492.9	484.8	473.5	465.4
17.5°	1010.0	947.0	854.9	622.2	526.8	502.6	486.4	475.1	463.8	450.9	441.2
20°	1307.4	1213.6	1103.7	707.8	526.8	491.3	471.9	457.3	441.2	426.6	415.3
22.5°	1685.5	1591.8	1404.3	853.3	533.3	476.7	454.1	434.7	415.3	402.4	389.5
25°	2108.9	1976.4	1801.9	1029.4	551.1	457.3	433.1	413.7	395.9	379.8	365.2
27.5°	2580.8	2437.0	2204.3	1279.9	589.9	437.9	410.5	392.7	376.5	360.4	341.0
30°	3015.5	2929.9	2692.3	1580.5	652.9	425.0	392.7	376.5	360.4	339.4	321.6
32.5°	3537.5	3385.6	3190.0	1923.1	736.9	412.1	378.2	355.5	342.6	323.2	303.8
35°	4062.7	3933.4	3676.5	2344.9	830.6	399.2	360.4	339.4	328.1	305.4	284.4
37.5°	4604.1	4575.0	4321.3	2811.9	922.8	384.6	339.4	326.4	315.1	289.3	265.0
40°	5137.4	5084.0	4849.7	3345.2	979.3	368.5	321.6	313.5	300.6	271.5	244.0
42.5°	5648.0	5607.6	5379.8	3855.8	971.2	353.9	303.8	294.1	284.4	255.3	221.4
45°	6275.0	6208.8	5921.1	4234.0	888.8	370.1	286.0	269.9	268.3	240.8	198.8
47.5°	7448.3	7230.1	6742.1	4524.9	806.4	412.1	266.6	247.3	258.6	226.2	176.1
50°	9091.8	8834.8	8128.6	4751.1	804.8	467.0	263.4	226.2	250.5	214.9	156.8
52.5°	10743.4	10290.9	9432.8	4872.3	864.6	507.4	292.5	205.2	240.8	203.6	142.2
55°	12325.4	11386.5	9979.0	4471.6	911.4	551.1	345.8	193.9	223.0	190.7	134.1
57.5°	13833.2	12267.3	10216.5	3537.5	1068.2	568.8	378.2	198.8	197.2	174.5	127.7
60°	14040.1	12225.3	9736.6	2057.2	1178.1	538.1	365.2	221.4	172.9	155.1	116.4
62.5°	13257.9	11412.4	8642.5	1283.1	1094.1	526.8	324.8	252.1	156.8	137.4	101.8
65°	12070.1	10137.3	7205.9	827.4	829.0	585.0	284.4	247.3	147.1	121.2	87.3
67.5°	10213.3	8484.1	5677.1	554.3	468.6	499.4	248.9	169.7	143.8	103.4	67.9
70°	7454.7	6039.1	3695.9	370.1	279.6	399.2	208.5	121.2	135.7	85.6	48.5
72.5°	5449.2	4057.8	2063.7	242.4	158.4	232.7	153.5	87.3	105.0	63.0	33.9
75°	3922.1	2792.5	1178.1	155.1	105.0	127.7	100.2	59.8	67.9	50.1	30.7
77.5°	1887.5	1360.7	534.9	85.6	71.1	64.6	53.3	37.2	42.0	45.2	27.5
80°	71.1	53.3	40.4	42.0	45.2	29.1	24.2	19.4	24.2	30.7	14.5
82.5°	0.0	0.0	0.0	4.8	6.5	8.1	9.7	8.1	9.7	11.3	1.6
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°	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8
2.5°	656.1	652.9	656.1	659.3	662.6	665.8	661.0	664.2	667.4	659.3	662.6
5°	604.4	602.8	612.5	617.3	623.8	627.0	623.8	623.8	622.2	612.5	612.5
7.5°	559.1	560.8	568.8	580.2	588.2	593.1	589.9	588.2	583.4	568.8	568.8
10°	525.2	525.2	538.1	547.8	559.1	564.0	560.8	555.9	551.1	536.5	534.9
12.5°	497.7	497.7	507.4	523.6	536.5	543.0	541.4	534.9	526.8	512.3	510.7
15°	471.9	470.3	484.8	499.4	517.1	525.2	522.0	517.1	502.6	489.7	486.4
17.5°	446.0	444.4	457.3	476.7	496.1	507.4	505.8	494.5	481.6	465.4	462.2
20°	420.2	416.9	433.1	452.5	471.9	483.2	480.0	470.3	454.1	437.9	434.7
22.5°	394.3	392.7	404.0	420.2	437.9	447.6	446.0	437.9	421.8	407.2	407.2
25°	365.2	365.2	373.3	384.6	397.5	402.4	404.0	400.8	391.1	383.0	383.0
27.5°	341.0	336.1	339.4	342.6	349.1	357.1	357.1	360.4	362.0	358.8	360.4
30°	321.6	313.5	308.7	302.2	299.0	302.2	305.4	316.7	328.1	334.5	337.7
32.5°	299.0	289.3	276.3	258.6	247.3	244.0	253.7	274.7	295.7	310.3	318.4
35°	276.3	263.4	239.2	213.3	198.8	193.9	205.2	229.5	260.2	286.0	297.3
37.5°	253.7	235.9	202.0	171.3	155.1	151.9	163.2	189.1	224.6	260.2	274.7
40°	227.9	206.9	166.5	134.1	121.2	118.0	127.7	153.5	190.7	231.1	253.7
42.5°	202.0	176.1	134.1	106.7	93.7	93.7	106.7	126.1	160.0	203.6	231.1
45°	176.1	148.7	109.9	85.6	77.6	79.2	87.3	106.7	134.1	179.4	205.2
47.5°	151.9	127.7	90.5	71.1	64.6	66.3	76.0	92.1	114.7	155.1	182.6
50°	130.9	108.3	79.2	59.8	54.9	58.2	67.9	82.4	101.8	137.4	160.0
52.5°	118.0	97.0	72.7	51.7	48.5	51.7	61.4	74.3	92.1	121.2	143.8
55°	111.5	95.3	72.7	46.9	42.0	45.2	54.9	67.9	82.4	109.9	129.3
57.5°	109.9	98.6	77.6	42.0	35.6	38.8	48.5	61.4	76.0	100.2	116.4
60°	103.4	93.7	76.0	33.9	27.5	32.3	40.4	53.3	69.5	93.7	108.3
62.5°	90.5	82.4	66.3	27.5	21.0	24.2	33.9	46.9	63.0	85.6	101.8
65°	74.3	66.3	51.7	17.8	12.9	16.2	25.9	40.4	54.9	77.6	92.1
67.5°	54.9	46.9	35.6	11.3	6.5	11.3	21.0	33.9	50.1	69.5	84.0
70°	33.9	27.5	19.4	6.5	4.8	9.7	19.4	32.3	45.2	64.6	79.2
72.5°	19.4	12.9	8.1	3.2	4.8	9.7	19.4	32.3	43.6	61.4	74.3
75°	14.5	8.1	3.2	1.6	3.2	8.1	17.8	29.1	42.0	58.2	71.1
77.5°	9.7	4.8	1.6	0.0	1.6	6.5	16.2	27.5	38.8	54.9	67.9
80°	1.6	0.0	0.0	0.0	0.0	4.8	14.5	24.2	35.6	48.5	59.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.6	11.3	21.0	30.7	40.4	48.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	16.2	24.2	30.7	33.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	16.2	19.4	22.6
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°	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8
2.5°	661.0	670.7	670.7	677.1	685.2	699.7	707.8	719.1	727.2	735.3	738.5
5°	610.9	612.5	614.1	617.3	627.0	643.2	657.7	675.5	696.5	712.7	722.4
7.5°	568.8	568.8	568.8	573.7	583.4	594.7	609.2	633.5	657.7	677.1	693.3
10°	533.3	538.1	539.8	547.8	559.1	573.7	589.9	610.9	638.3	664.2	693.3
12.5°	510.7	515.5	523.6	531.7	543.0	559.1	576.9	604.4	661.0	714.3	775.7
15°	489.7	496.1	505.8	517.1	530.1	547.8	567.2	623.8	756.3	856.5	953.5
17.5°	467.0	476.7	489.7	501.0	517.1	536.5	560.8	670.7	930.8	1097.3	1262.1
20°	437.9	450.9	465.4	483.2	502.6	525.2	560.8	767.6	1182.9	1422.1	1640.3
22.5°	410.5	423.4	441.2	463.8	486.4	509.0	568.8	914.7	1507.8	1810.0	2086.3
25°	387.8	404.0	421.8	441.2	467.0	492.9	588.2	1121.5	1898.8	2288.3	2483.8
27.5°	366.8	386.2	404.0	420.2	442.8	471.9	631.9	1397.9	2361.0	2756.9	2910.5
30°	345.8	368.5	386.2	402.4	425.0	455.7	698.1	1750.2	2874.9	3259.5	3275.7
32.5°	328.1	349.1	370.1	386.2	407.2	442.8	790.2	2162.2	3401.7	3773.4	3621.5
35°	308.7	332.9	352.3	370.1	392.7	431.5	896.9	2606.7	3933.4	4245.3	3965.7
37.5°	289.3	316.7	341.0	353.9	376.5	420.2	974.5	3070.5	4476.4	4705.9	4267.9
40°	271.5	302.2	329.7	342.6	353.9	405.6	985.8	3545.6	5027.5	5160.0	4552.4
42.5°	252.1	286.0	310.3	328.1	337.7	395.9	917.9	3946.3	5489.6	5612.5	4924.0
45°	231.1	271.5	290.9	303.8	323.2	402.4	830.6	4256.6	6018.1	6229.8	5536.5
47.5°	210.1	255.3	271.5	281.2	307.0	441.2	798.3	4463.5	6889.1	7328.7	6569.2
50°	190.7	240.8	258.6	256.9	303.8	491.3	833.9	4620.2	8198.1	8715.2	7984.8
52.5°	169.7	224.6	245.6	239.2	328.1	530.1	905.0	4744.7	9204.9	10341.0	9886.9
55°	151.9	206.9	226.2	224.6	373.3	559.1	959.9	4088.6	9621.8	11852.0	12029.7
57.5°	139.0	187.5	203.6	231.1	402.4	559.1	1110.2	2902.4	9629.9	12963.8	14873.9
60°	127.7	169.7	181.0	253.7	391.1	530.1	1098.9	1777.6	8875.2	12887.8	16386.5
62.5°	118.0	153.5	168.1	260.2	345.8	525.2	992.2	1102.1	7569.5	11906.9	15289.2
65°	109.9	140.6	161.6	239.2	313.5	562.4	669.0	791.9	6139.3	10788.6	14030.4
67.5°	101.8	129.3	171.3	195.5	284.4	502.6	483.2	562.4	4819.0	9562.0	12874.9
70°	95.3	122.8	181.0	160.0	248.9	392.7	342.6	426.6	3689.4	7978.3	11247.6
72.5°	90.5	114.7	151.9	126.1	202.0	303.8	239.2	310.3	2411.1	6228.2	9169.3
75°	85.6	105.0	111.5	101.8	150.3	198.8	181.0	208.5	1436.6	4552.4	6957.0
77.5°	84.0	98.6	90.5	82.4	101.8	118.0	137.4	140.6	701.4	2277.0	3645.8
80°	74.3	88.9	77.6	67.9	69.5	77.6	101.8	93.7	160.0	578.5	972.8
82.5°	58.2	69.5	64.6	56.6	56.6	56.6	67.9	63.0	51.7	260.2	439.6
85°	40.4	48.5	48.5	45.2	43.6	43.6	42.0	40.4	14.5	16.2	24.2
87.5°	27.5	33.9	35.6	33.9	29.1	25.9	22.6	19.4	6.5	0.0	3.2
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°	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8
2.5°	749.8	754.7	754.7	748.2	743.4	730.4	717.5	704.6	701.4	699.7
5°	749.8	769.2	778.9	777.3	766.0	745.0	717.5	688.4	680.3	677.1
7.5°	738.5	775.7	804.8	809.6	788.6	751.5	701.4	657.7	646.4	641.6
10°	764.4	837.1	895.3	903.4	879.1	806.4	725.6	651.3	633.5	622.2
12.5°	903.4	1022.9	1094.1	1128.0	1081.1	989.0	854.9	722.4	682.0	664.2
15°	1184.5	1354.2	1490.0	1490.0	1446.3	1283.1	1113.4	898.5	843.6	795.1
17.5°	1544.9	1758.2	1877.8	1864.9	1798.6	1683.9	1480.3	1171.6	1060.1	1010.0
20°	1955.4	2083.1	2110.5	2102.5	2073.4	2007.1	1866.5	1535.2	1384.9	1307.4
22.5°	2310.9	2277.0	2236.6	2204.3	2196.2	2215.6	2196.2	1940.9	1822.9	1685.5
25°	2551.7	2359.4	2238.2	2180.0	2207.5	2319.0	2440.2	2344.9	2251.1	2108.9
27.5°	2682.6	2349.7	2175.2	2115.4	2162.2	2320.6	2584.0	2745.6	2648.7	2580.8
30°	2753.7	2341.6	2134.8	2076.6	2147.7	2346.5	2684.2	3120.6	3123.8	3015.5
32.5°	2855.5	2393.3	2142.9	2089.5	2184.9	2424.0	2810.3	3501.9	3595.7	3537.5
35°	2970.3	2472.5	2180.0	2131.5	2249.5	2527.5	2950.9	3886.5	4082.1	4062.7
37.5°	3078.5	2561.4	2267.3	2220.4	2348.1	2616.4	3086.6	4264.7	4536.2	4604.1
40°	3191.7	2685.8	2535.5	2580.8	2651.9	2756.9	3207.8	4592.8	5035.5	5137.4
42.5°	3458.3	3117.3	3346.8	3432.4	3442.1	3225.6	3472.8	5012.9	5526.8	5648.0
45°	4053.0	3884.9	4542.7	4663.9	4600.8	3944.7	4111.2	5618.9	6213.6	6275.0
47.5°	4804.5	4882.0	6179.7	6598.2	6220.1	4793.1	4885.3	6894.0	7470.9	7448.3
50°	5680.3	6047.2	8038.1	9025.5	8120.5	5895.3	5777.3	8461.5	9161.3	9091.8
52.5°	6716.2	7401.4	10271.5	11674.2	10817.7	7134.8	7086.3	10538.1	10964.8	10743.4
55°	8020.3	8708.8	12841.0	14801.2	13582.7	8647.4	8813.8	12946.0	13028.4	12325.4
57.5°	9966.0	10413.7	15869.4	18387.2	16468.9	10703.0	11910.1	16150.6	15164.8	13833.2
60°	13498.7	12606.6	18796.0	22055.6	19539.4	13594.0	15993.8	18049.4	15875.9	14040.1
62.5°	14728.5	14468.3	20628.6	23606.9	21604.7	15968.0	17055.6	16973.1	14954.7	13257.9
65°	12865.2	14004.5	20300.5	22787.6	21339.7	15576.9	15305.4	15785.4	13917.2	12070.1
67.5°	11884.3	12915.3	19057.8	20526.8	19870.7	14250.1	13642.5	13511.6	11683.9	10213.3
70°	10895.3	11916.6	17256.0	17438.6	17133.1	12087.9	11289.6	10412.1	8733.0	7454.7
72.5°	9705.9	10268.2	14756.0	13889.8	13543.9	9494.2	9326.1	7841.0	6546.5	5449.2
75°	8464.8	8301.5	11504.5	9533.0	9791.5	7386.9	7876.5	5757.9	4796.4	3922.1
77.5°	6157.1	6035.9	7705.2	5790.2	6412.4	4838.4	4347.1	2298.0	2188.1	1887.5
80°	3435.7	4141.9	4161.3	3245.0	4048.2	3154.5	1087.6	76.0	48.5	71.1
82.5°	1596.6	1780.9	2256.0	1504.5	2309.3	1562.7	224.6	0.0	0.0	0.0
85°	517.1	756.3	633.5	221.4	559.1	528.4	37.2	0.0	0.0	0.0
87.5°	30.7	63.0	16.2	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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