

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: P631335

Luminaire Tested: GWS-SA1F-740-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631335  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

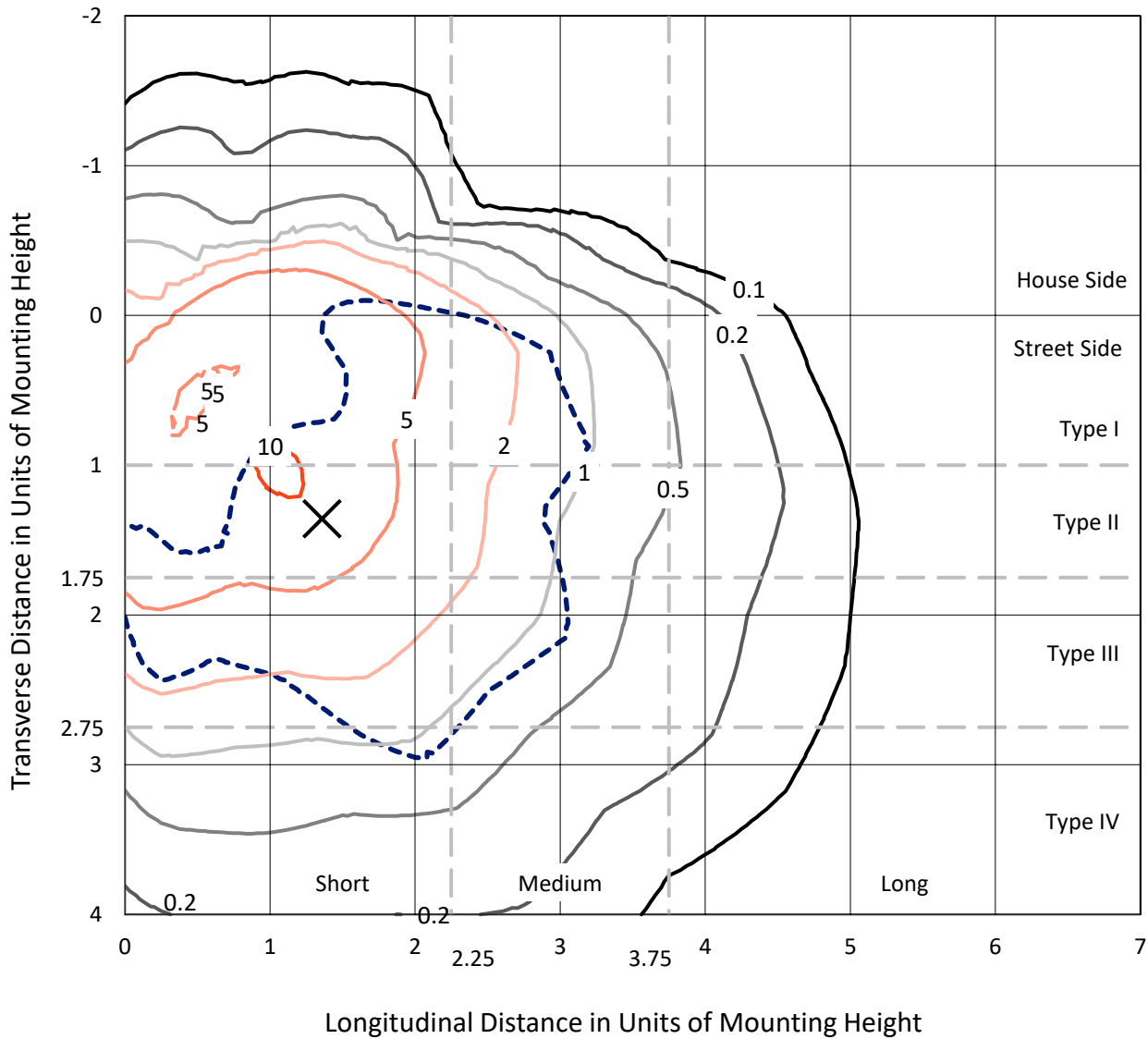
Lumens per Lamp: N/A  
Luminaire Lumens: 5228.5 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

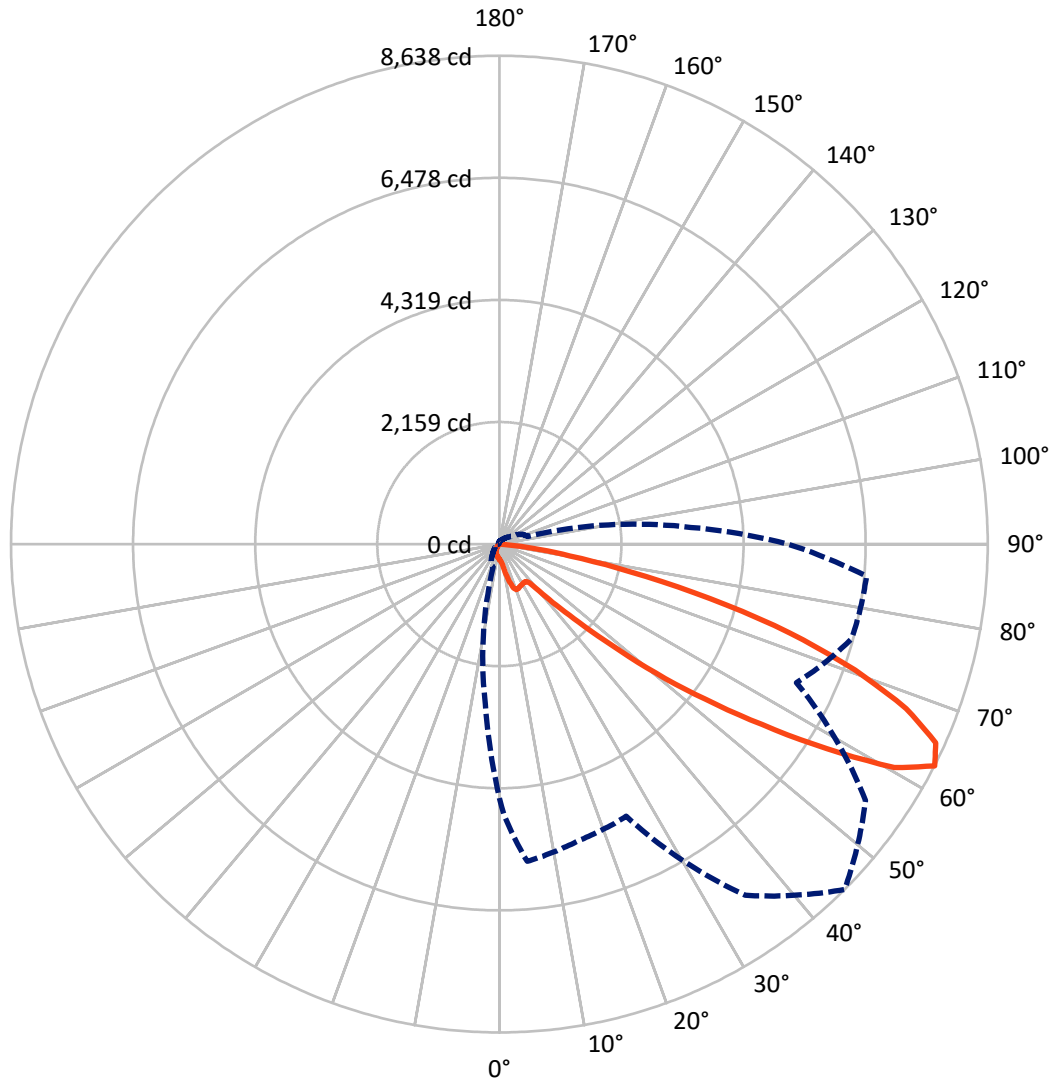
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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	645.2	0.0	645.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	4583.3	0.0	4583.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	5228.5	0.0	5228.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.1	0.5
10°-20°	91.2	1.7
20°-30°	198.2	3.8
30°-40°	325.2	6.2
40°-50°	597.9	11.4
50°-60°	1284.0	24.6
60°-70°	1724.7	33.0
70°-80°	898.1	17.2
80°-90°	85.1	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°	5228.5	100.0
0°-180°	5228.5	100.0

**Coefficient of Utilization**

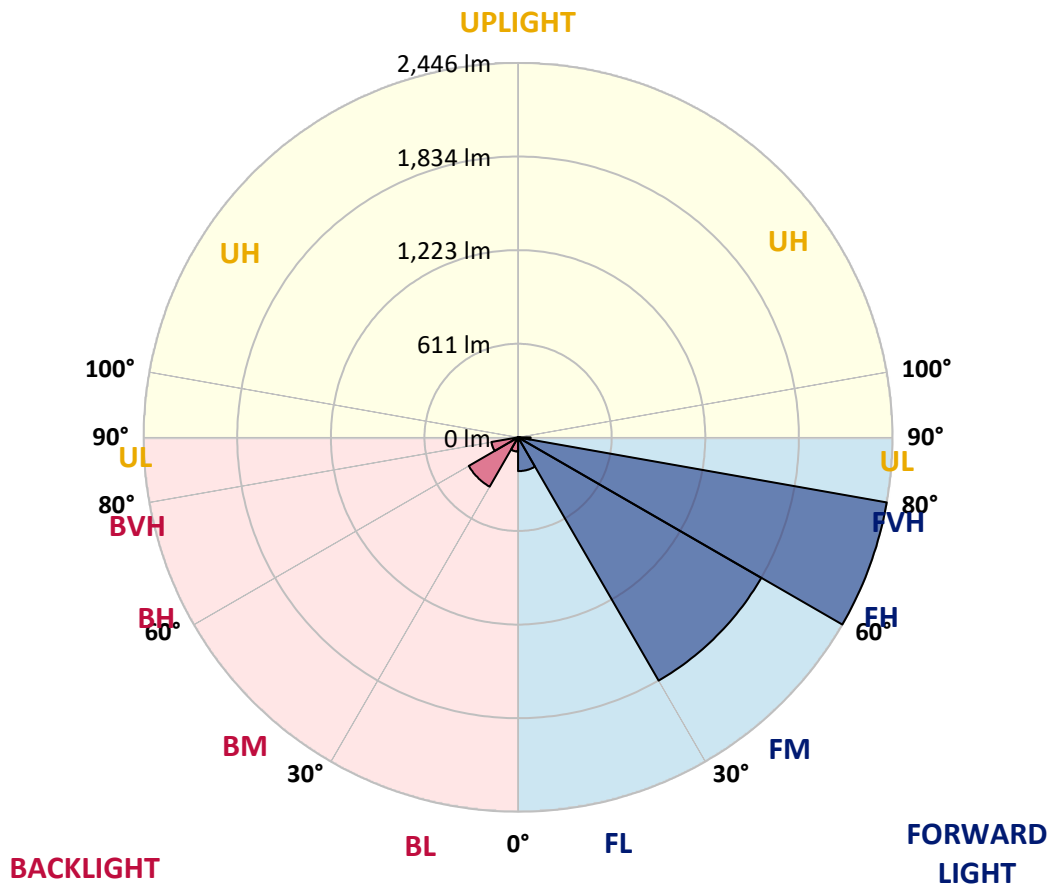


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.9	4.2			
FM (30°-60°)	1835.1	35.1			
FH (60°-80°)	2445.9	46.8			G2/5000
FVH (80°-90°)	81.4	1.6			G1/100
BL (0°-30°)	92.5	1.8	B0/110		
BM (30°-60°)	372.1	7.1	B1/1000		
BH (60°-80°)	176.8	3.4	B1/500		G1/500
BVH (80°-90°)	3.8	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°	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8
2.5°	277.2	278.4	279.6	283.9	286.9	289.3	289.9	288.1	283.9	279.6	273.6
5°	268.8	270.0	274.2	285.7	297.1	306.2	309.2	307.4	297.1	283.9	270.0
7.5°	268.1	270.6	280.8	305.0	329.8	348.5	353.3	349.1	329.8	303.2	274.8
10°	289.9	294.1	309.2	352.7	398.0	431.2	444.5	426.4	395.6	347.3	300.8
12.5°	346.7	353.9	382.9	446.3	516.4	560.5	578.6	556.2	507.9	437.9	364.2
15°	436.0	446.9	490.4	585.2	668.0	707.2	713.3	700.6	644.4	567.1	468.1
17.5°	562.3	578.0	645.6	742.2	802.0	815.9	814.1	800.8	759.8	706.6	613.0
20°	713.3	732.0	798.4	878.1	884.2	867.9	858.8	851.0	837.1	828.0	754.9
22.5°	865.4	888.4	957.8	977.8	923.4	876.3	854.0	860.0	880.5	925.2	895.6
25°	1017.0	1038.8	1104.0	1050.2	941.5	863.0	834.6	849.1	898.1	994.7	1032.7
27.5°	1194.0	1210.3	1248.9	1099.8	944.6	852.2	824.4	846.7	906.5	1038.2	1183.1
30°	1378.2	1387.9	1369.1	1113.1	934.3	835.9	814.1	846.7	921.0	1067.2	1296.1
32.5°	1513.5	1515.3	1454.3	1114.3	928.9	822.6	804.4	843.1	934.9	1091.3	1405.4
35°	1653.0	1643.9	1535.8	1132.4	943.4	827.4	811.7	853.4	956.6	1119.7	1501.4
37.5°	1794.3	1778.0	1627.0	1162.0	980.8	879.9	870.3	905.9	991.7	1159.0	1607.1
40°	1939.2	1916.9	1721.8	1206.7	1064.1	1058.7	1091.9	1087.7	1087.7	1209.1	1715.8
42.5°	2116.2	2090.2	1861.9	1332.9	1258.6	1380.0	1470.6	1414.4	1310.5	1324.4	1857.1
45°	2349.9	2327.6	2104.7	1574.5	1563.6	1842.6	1964.6	1853.5	1595.0	1590.8	2093.3
47.5°	2723.8	2719.5	2491.9	1854.7	1936.8	2431.5	2667.0	2453.2	1919.3	1872.8	2540.2
50°	3249.2	3236.5	2974.4	2183.2	2380.7	3161.0	3581.4	3225.0	2311.3	2202.0	3138.7
52.5°	3841.1	3854.3	3650.2	2542.0	2852.4	3972.7	4557.9	4109.2	2737.1	2620.5	3891.8
55°	4398.5	4474.6	4420.8	2961.7	3313.2	4869.0	5630.5	5079.1	3264.3	3168.3	4736.1
57.5°	4834.5	5048.9	5425.8	3571.7	3854.9	5917.4	6828.1	6130.6	3879.7	4057.9	5885.4
60°	4858.7	5142.5	6017.6	4847.8	4551.9	6816.7	8023.9	7157.9	4847.2	5568.3	6785.9
62.5°	4494.5	4798.9	5632.3	5427.6	5311.0	7581.9	8637.5	7906.8	5799.0	6453.1	6518.9
65°	4077.8	4385.2	5202.3	4769.9	5222.9	7549.2	8481.7	7924.3	5885.4	5851.6	6041.2
67.5°	3447.9	3723.9	4463.7	4222.1	4814.0	7185.1	7761.8	7424.8	5422.2	5472.9	5557.4
70°	2516.6	2782.3	3469.0	3481.1	4204.0	6528.6	6669.3	6622.8	4993.4	5047.1	4805.5
72.5°	1817.9	2041.9	2634.4	2854.8	3356.1	5474.7	5377.5	5556.8	4284.3	4495.1	3859.8
75°	1306.9	1474.8	1932.6	2483.4	2660.4	4065.7	3849.5	4303.7	3437.6	3870.6	2901.9
77.5°	530.3	589.4	760.4	1672.9	1748.4	2735.2	2356.6	3126.0	2450.8	2543.2	1406.6
80°	21.7	24.2	31.4	863.6	1198.8	1538.8	1261.0	1671.1	1618.6	1024.3	332.2
82.5°	2.4	2.4	5.4	248.8	524.8	849.1	594.3	962.7	819.5	434.2	151.0
85°	0.6	0.6	1.2	28.4	123.2	135.9	80.3	295.3	381.1	177.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.4	6.0	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°	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8
2.5°	273.6	270.6	266.9	263.3	261.5	256.7	254.9	253.7	252.4	253.1	253.1
5°	264.5	257.9	250.0	242.2	238.0	233.1	230.7	229.5	230.1	232.5	232.5
7.5°	263.3	250.6	233.7	223.5	218.6	215.0	212.6	211.4	212.0	215.0	216.2
10°	283.2	260.9	230.7	213.2	207.8	204.1	201.7	199.9	198.7	201.1	201.7
12.5°	326.1	295.3	245.2	212.0	202.3	197.5	195.7	192.1	190.2	191.4	192.1
15°	414.9	361.8	274.2	216.8	197.5	192.1	189.0	186.0	183.0	182.4	183.0
17.5°	530.9	454.8	318.3	228.3	193.9	187.2	183.0	178.8	174.5	173.9	173.3
20°	674.6	568.9	379.9	246.4	190.8	183.0	177.0	170.9	165.5	163.7	163.7
22.5°	805.7	706.6	459.0	268.8	186.6	177.0	169.7	162.5	156.4	153.4	152.8
25°	965.7	852.8	553.8	294.7	180.6	169.1	161.3	154.0	148.0	144.3	143.1
27.5°	1127.0	1006.8	661.3	328.5	173.3	161.3	154.0	147.4	140.7	136.5	135.3
30°	1283.4	1172.8	782.1	370.8	167.9	153.4	147.4	140.7	134.7	128.0	126.2
32.5°	1451.3	1342.6	917.4	417.9	163.7	148.0	141.3	135.3	127.4	121.4	118.4
35°	1613.1	1517.7	1066.6	463.8	159.4	143.1	135.9	129.8	121.4	114.7	110.5
37.5°	1776.2	1695.9	1222.4	491.6	153.4	136.5	129.8	125.0	115.4	107.5	102.7
40°	1948.9	1880.1	1390.9	480.1	148.0	129.2	125.6	120.2	109.3	100.3	94.2
42.5°	2138.5	2055.8	1562.4	436.0	143.1	123.2	119.6	114.1	103.9	93.0	85.2
45°	2377.1	2248.5	1703.1	369.6	145.5	117.2	109.9	108.7	99.0	85.2	75.5
47.5°	2787.2	2544.4	1812.4	326.7	161.9	110.5	102.1	105.1	94.8	77.3	66.4
50°	3414.7	3034.8	1914.5	323.7	186.6	107.5	94.8	102.7	90.6	69.5	58.6
52.5°	4012.6	3533.0	1979.7	350.3	208.4	115.4	87.6	99.6	87.6	64.0	53.1
55°	4584.5	3820.5	1863.2	369.6	228.9	138.9	82.1	94.8	83.9	61.0	51.3
57.5°	5201.1	3948.6	1467.0	408.9	243.4	158.8	83.3	87.6	79.1	59.2	50.7
60°	5385.3	3784.9	885.4	460.2	235.5	164.9	92.4	77.9	72.5	55.6	48.9
62.5°	5099.1	3396.6	522.4	419.1	228.9	155.8	105.7	71.9	65.8	50.7	45.3
65°	4670.9	2869.3	340.6	353.9	242.8	138.9	112.3	68.8	59.8	45.9	39.9
67.5°	4181.7	2311.3	238.6	209.0	224.1	125.0	94.8	68.2	53.8	38.7	32.6
70°	3522.2	1730.9	167.9	138.3	186.6	111.1	73.7	66.4	47.1	31.4	25.4
72.5°	2721.3	1083.5	125.0	89.4	132.9	90.6	58.6	56.2	38.0	26.0	19.3
75°	2006.9	617.8	88.2	64.6	87.6	68.8	43.5	39.9	32.6	24.8	17.5
77.5°	1047.8	309.2	55.0	49.5	50.1	42.9	31.4	29.0	30.2	24.8	16.3
80°	201.1	61.6	33.2	36.2	27.2	27.2	22.9	24.2	26.6	19.9	13.9
82.5°	83.9	13.3	18.1	20.5	16.9	18.7	18.7	19.3	18.7	14.5	10.3
85°	0.0	0.0	7.9	8.5	11.5	11.5	9.7	9.7	9.7	8.5	6.0
87.5°	0.0	0.0	0.0	0.0	0.6	1.8	3.6	4.2	4.8	3.6	2.4
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°	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8
2.5°	252.4	251.2	253.1	254.3	255.5	255.5	254.3	253.1	251.2	253.1	251.2
5°	233.1	234.9	238.0	239.2	240.4	238.0	236.7	233.1	230.1	230.7	229.5
7.5°	218.0	219.8	223.5	225.9	225.9	224.7	221.0	217.4	212.6	212.6	212.0
10°	204.1	206.5	210.8	213.8	215.0	213.8	210.2	205.3	201.1	201.1	199.3
12.5°	192.7	195.7	200.5	204.7	205.9	204.7	201.1	196.3	191.4	191.4	190.2
15°	183.0	186.6	192.1	196.9	198.7	196.9	192.7	186.6	181.8	182.4	180.6
17.5°	173.9	177.0	184.2	189.6	191.4	189.6	184.2	176.4	171.5	172.7	171.5
20°	163.7	167.3	174.5	180.6	182.4	180.6	174.5	166.1	161.3	161.3	161.9
22.5°	152.8	156.4	163.7	167.9	170.3	168.5	162.5	154.6	149.8	149.8	150.4
25°	143.1	144.9	150.4	154.6	155.2	153.4	148.6	142.5	138.9	140.7	141.3
27.5°	134.1	134.1	136.5	138.9	138.3	136.5	134.7	129.8	129.2	131.1	132.9
30°	124.4	121.4	120.2	118.4	117.8	117.2	119.0	119.0	120.2	122.6	124.4
32.5°	116.0	109.9	104.5	99.0	96.0	98.4	103.3	107.5	111.7	115.4	117.2
35°	106.3	96.6	87.6	80.3	75.5	79.1	87.0	94.8	102.1	106.9	109.9
37.5°	96.6	82.7	71.9	62.8	59.2	62.2	70.7	81.5	92.4	98.4	102.7
40°	86.4	68.8	56.2	48.9	45.3	48.3	56.8	67.6	82.1	90.0	95.4
42.5°	76.1	56.8	45.3	38.0	36.2	38.0	44.7	55.6	71.3	80.9	88.2
45°	65.8	47.1	36.2	30.8	29.0	30.8	36.2	45.3	61.0	71.9	80.3
47.5°	56.8	39.9	30.2	25.4	24.2	26.0	30.2	38.0	51.3	62.2	71.9
50°	49.5	35.0	26.0	21.7	20.5	22.3	26.0	32.0	43.5	53.1	63.4
52.5°	44.7	32.6	22.9	18.7	18.1	19.3	22.3	27.2	36.8	45.3	55.0
55°	43.5	32.6	21.1	16.9	16.3	17.5	19.9	23.6	32.0	39.3	47.7
57.5°	44.7	35.0	19.9	14.5	13.9	15.1	17.5	20.5	27.8	33.8	41.7
60°	44.7	35.6	17.5	11.5	10.9	12.1	14.5	18.1	24.8	29.6	36.2
62.5°	40.5	32.6	14.5	9.1	7.9	9.1	12.1	15.1	21.7	26.6	32.0
65°	35.0	27.8	12.1	6.6	5.4	6.6	9.7	12.7	18.7	22.9	29.0
67.5°	28.4	21.1	9.1	4.8	3.6	4.8	7.2	10.3	15.7	19.9	26.0
70°	21.1	15.1	7.2	4.2	3.6	4.2	6.6	9.7	13.9	18.1	24.2
72.5°	15.7	10.3	6.0	4.2	3.0	4.2	6.0	9.1	13.3	17.5	22.9
75°	13.3	8.5	5.4	3.6	3.0	3.6	5.4	8.5	12.1	16.3	21.7
77.5°	12.7	7.9	4.8	3.0	2.4	3.0	4.8	7.2	10.9	15.1	21.1
80°	10.9	6.6	4.2	2.4	1.8	2.4	4.2	6.0	8.5	11.5	16.3
82.5°	8.5	5.4	3.0	1.2	0.6	1.2	3.0	3.6	5.4	6.6	9.7
85°	5.4	3.0	1.2	0.0	0.0	0.0	1.2	2.4	2.4	3.0	4.8
87.5°	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8	271.8
2.5°	254.9	255.5	256.7	258.5	262.7	266.3	270.0	274.8	277.2	277.2
5°	230.7	231.3	231.9	234.3	240.4	245.2	253.1	262.7	267.5	268.8
7.5°	212.0	213.2	214.4	216.2	222.2	228.9	239.2	257.3	266.3	268.1
10°	201.1	202.9	205.3	209.0	214.4	221.6	239.2	271.8	286.9	289.9
12.5°	192.7	195.7	198.1	202.3	209.0	220.4	255.5	312.8	339.4	346.7
15°	184.2	187.8	191.4	195.7	202.9	224.7	286.9	386.5	430.6	436.0
17.5°	175.7	180.0	184.8	189.6	198.7	234.9	336.4	488.6	550.2	562.3
20°	166.1	171.5	178.2	184.2	194.5	251.2	405.2	610.0	687.3	713.3
22.5°	155.8	162.5	170.3	178.2	189.6	271.2	488.6	740.4	848.5	865.4
25°	147.4	154.0	161.3	169.1	181.8	295.3	589.4	902.3	1000.7	1017.0
27.5°	139.5	146.2	152.8	160.0	173.9	326.7	710.8	1074.4	1177.1	1194.0
30°	131.1	138.9	145.5	152.8	166.7	365.4	851.0	1265.3	1362.5	1378.2
32.5°	123.8	131.7	138.3	145.5	161.3	407.7	998.3	1434.4	1513.5	1513.5
35°	117.8	126.2	131.1	140.7	157.0	434.8	1137.8	1595.6	1655.4	1653.0
37.5°	111.1	121.4	125.0	131.7	151.6	437.9	1268.9	1765.9	1810.0	1794.3
40°	104.5	115.4	120.8	124.4	145.5	413.1	1412.6	1922.3	1959.8	1939.2
42.5°	98.4	106.9	114.7	119.0	141.9	369.6	1528.0	2089.6	2134.3	2116.2
45°	92.4	99.6	104.5	112.3	144.3	339.4	1627.0	2284.7	2363.2	2349.9
47.5°	86.4	92.4	95.4	107.5	160.6	325.5	1687.4	2586.7	2734.6	2723.8
50°	79.7	87.0	87.0	106.3	184.8	330.4	1739.9	3023.9	3252.8	3249.2
52.5°	73.1	80.9	79.7	115.4	203.5	352.7	1799.7	3409.8	3807.8	3841.1
55°	66.4	73.7	74.9	133.5	214.4	372.0	1568.4	3572.3	4281.9	4398.5
57.5°	59.2	63.4	77.9	147.4	210.8	428.2	1074.4	3601.9	4584.5	4834.5
60°	51.3	55.0	88.2	144.3	199.3	395.6	676.4	3336.2	4541.6	4858.7
62.5°	44.7	50.7	93.0	127.4	202.9	343.0	431.2	2843.3	4132.8	4494.5
65°	39.3	48.9	84.6	115.4	205.3	232.5	291.1	2313.1	3733.6	4077.8
67.5°	35.0	54.4	69.5	102.7	176.4	163.7	199.9	1797.3	3139.3	3447.9
70°	32.0	55.6	56.8	88.2	136.5	105.1	131.7	1209.7	2163.9	2516.6
72.5°	29.0	41.1	42.9	70.7	88.2	64.0	85.2	692.1	1577.5	1817.9
75°	27.8	27.8	29.6	45.9	48.9	46.5	55.0	413.1	1131.2	1306.9
77.5°	26.0	21.1	18.7	29.6	26.6	33.2	32.6	183.6	490.4	530.3
80°	20.5	15.1	12.7	18.7	18.1	22.3	19.3	15.1	22.3	21.7
82.5°	12.7	9.7	9.1	11.5	10.3	11.5	9.1	2.4	2.4	2.4
85°	6.0	5.4	4.8	4.8	5.4	4.8	3.6	1.2	0.6	0.6
87.5°	3.0	3.0	2.4	1.8	2.4	2.4	1.8	0.6	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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