

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: P630836

Luminaire Tested: GWS-SA1E-740-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630836  
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-SA1E-740-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

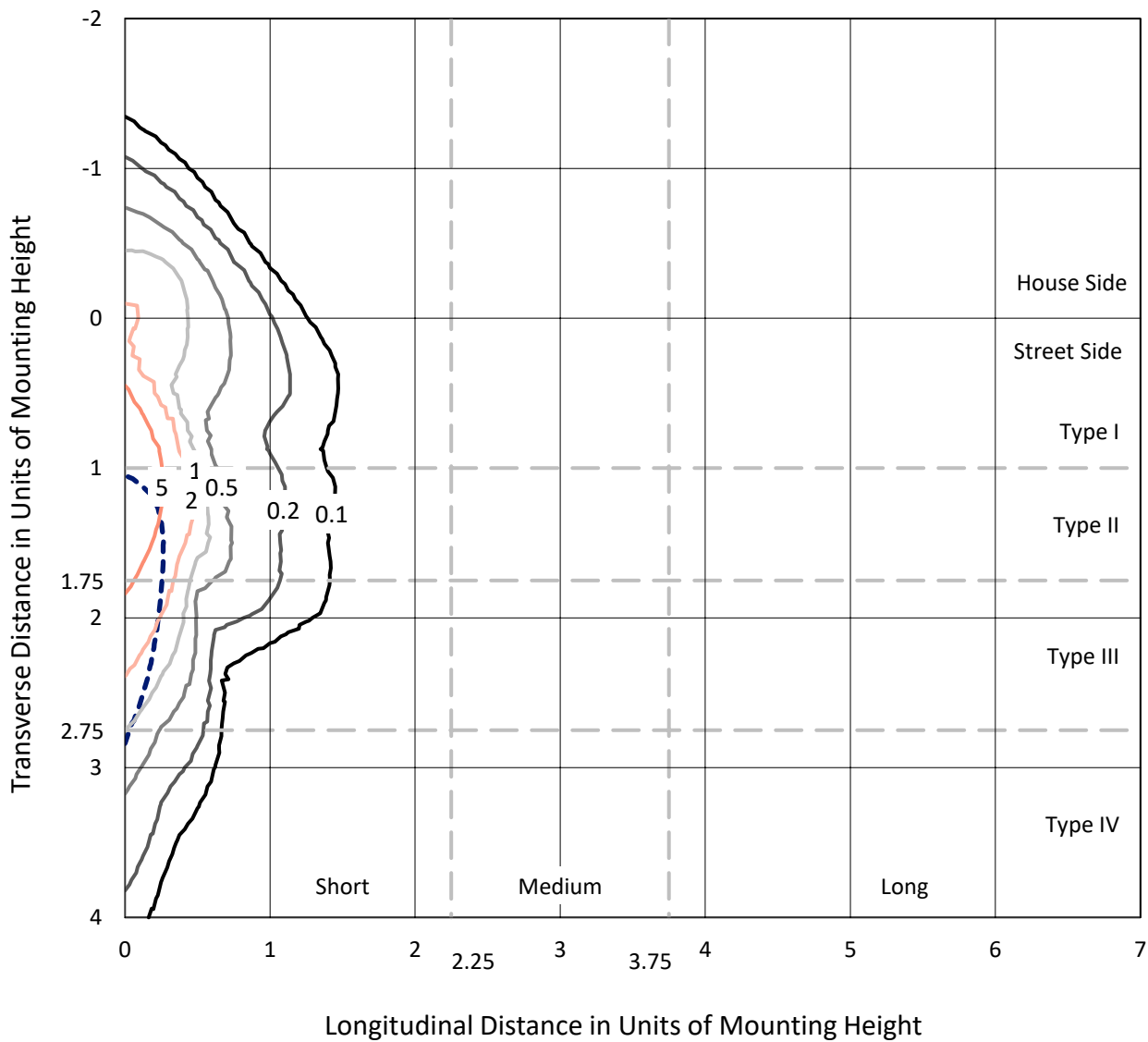
Lumens per Lamp: N/A  
Luminaire Lumens: 4588 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

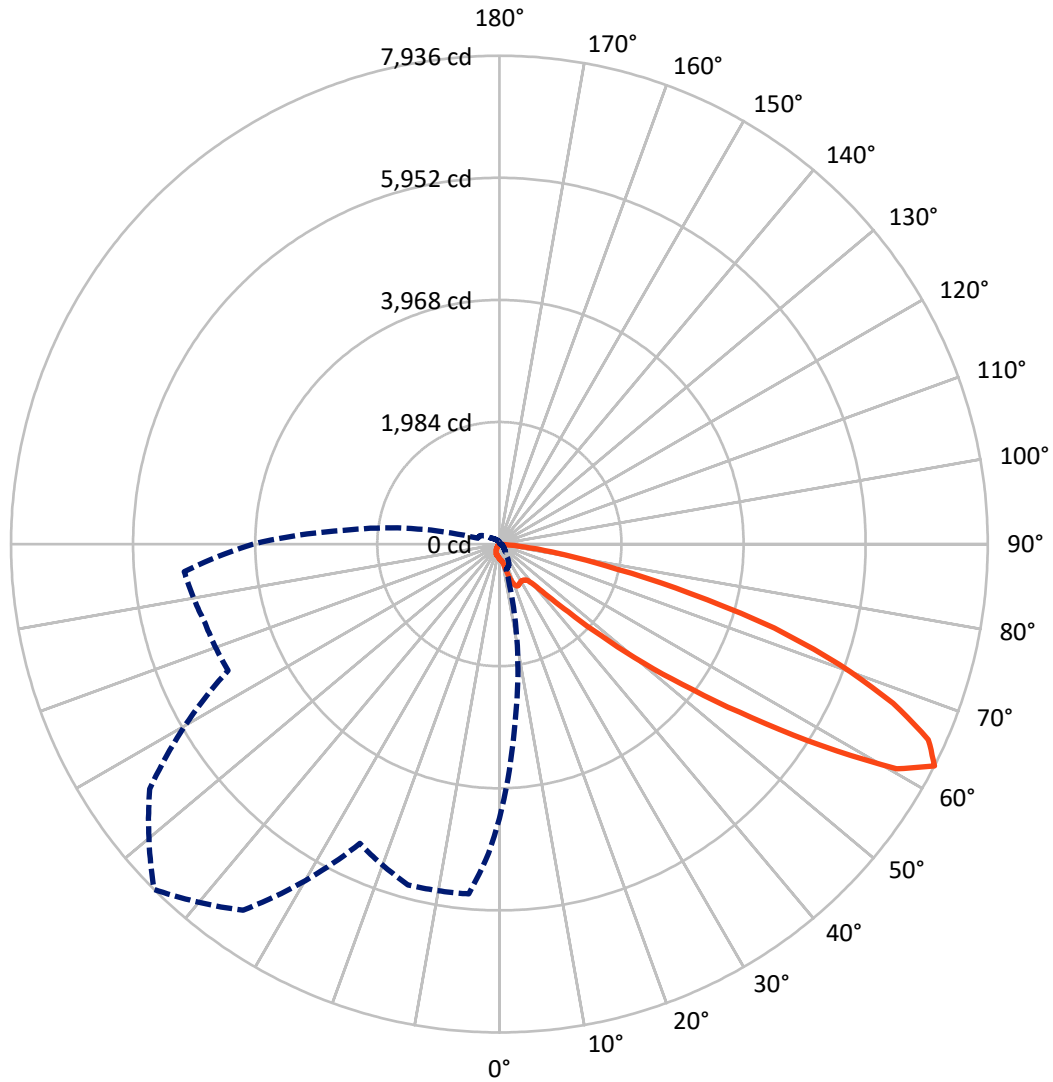
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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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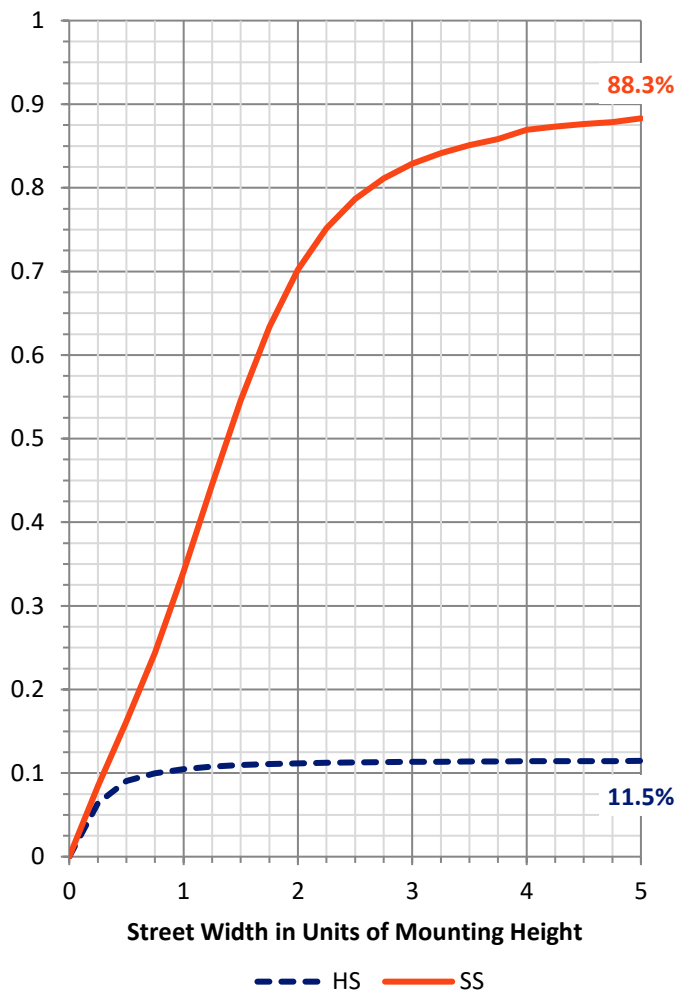
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	533.1	0.0	533.1
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	4054.9	0.0	4054.9
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	4588.0	0.0	4588.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.5	0.4
10°-20°	70.4	1.5
20°-30°	159.1	3.5
30°-40°	274.1	6.0
40°-50°	517.0	11.3
50°-60°	1154.4	25.2
60°-70°	1544.0	33.7
70°-80°	774.3	16.9
80°-90°	74.2	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°	4588.0	100.0
0°-180°	4588.0	100.0

**Coefficient of Utilization**



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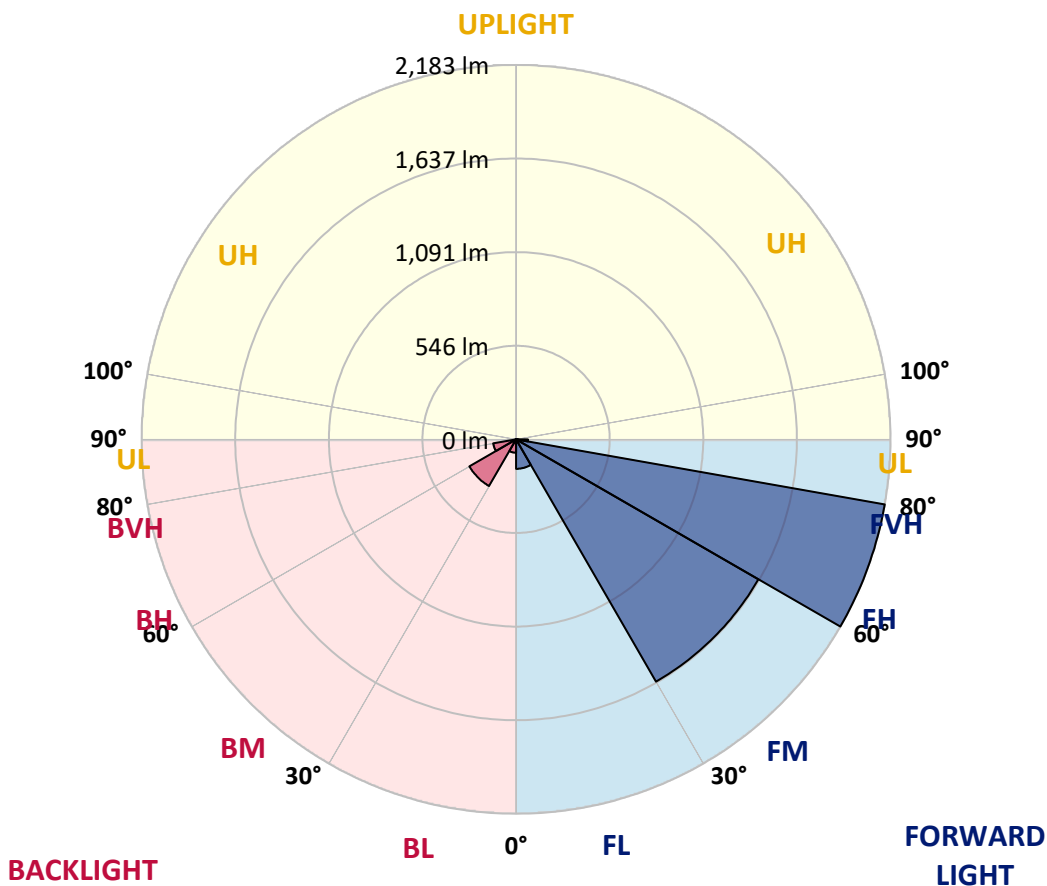
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.8	3.7			
FM (30°-60°)	1631.2	35.6			
FH (60°-80°)	2182.7	47.6			G2/5000
FVH (80°-90°)	69.3	1.5			G1/100
BL (0°-30°)	78.2	1.7	B0/110		
BM (30°-60°)	314.3	6.9	B1/1000		
BH (60°-80°)	135.6	3.0	B1/500		G1/500
BVH (80°-90°)	4.9	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9
2.5°	235.2	234.7	233.6	230.3	227.6	226.0	222.7	222.7	222.2	221.1	218.9
5°	227.6	225.4	223.3	217.3	210.8	207.0	202.6	202.1	202.1	201.0	200.5
7.5°	215.7	213.5	210.8	201.0	195.0	191.2	187.4	186.9	185.2	185.2	185.2
10°	209.1	205.9	201.5	190.7	184.7	181.4	178.7	177.1	176.0	174.4	173.8
12.5°	223.3	217.3	208.1	188.5	180.4	176.0	172.8	171.7	168.4	166.2	164.6
15°	267.3	252.6	234.1	193.4	178.7	172.2	167.9	165.7	163.0	159.2	156.5
17.5°	339.5	318.3	287.4	209.1	177.1	168.9	163.5	159.7	155.9	151.6	148.3
20°	439.5	408.0	371.0	237.9	177.1	165.1	158.6	153.7	148.3	143.4	139.6
22.5°	566.6	535.1	472.1	286.8	179.3	160.3	152.7	146.1	139.6	135.3	130.9
25°	708.9	664.4	605.7	346.0	185.2	153.7	145.6	139.1	133.1	127.7	122.8
27.5°	867.6	819.2	741.0	430.2	198.3	147.2	138.0	132.0	126.6	121.1	114.6
30°	1013.7	984.9	905.0	531.3	219.5	142.9	132.0	126.6	121.1	114.1	108.1
32.5°	1189.2	1138.1	1072.4	646.5	247.7	138.5	127.1	119.5	115.2	108.6	102.1
35°	1365.7	1322.3	1235.9	788.2	279.2	134.2	121.1	114.1	110.3	102.7	95.6
37.5°	1547.7	1537.9	1452.6	945.2	310.2	129.3	114.1	109.7	105.9	97.2	89.1
40°	1727.0	1709.0	1630.3	1124.5	329.2	123.9	108.1	105.4	101.0	91.3	82.0
42.5°	1898.6	1885.1	1808.5	1296.2	326.5	119.0	102.1	98.9	95.6	85.8	74.4
45°	2109.4	2087.1	1990.4	1423.3	298.8	124.4	96.2	90.7	90.2	80.9	66.8
47.5°	2503.8	2430.5	2266.4	1521.1	271.1	138.5	89.6	83.1	86.9	76.1	59.2
50°	3056.3	2969.9	2732.5	1597.1	270.5	157.0	88.5	76.1	84.2	72.3	52.7
52.5°	3611.5	3459.4	3170.9	1637.9	290.6	170.6	98.3	69.0	80.9	68.4	47.8
55°	4143.3	3827.7	3354.5	1503.2	306.4	185.2	116.3	65.2	75.0	64.1	45.1
57.5°	4650.2	4123.8	3434.4	1189.2	359.1	191.2	127.1	66.8	66.3	58.7	42.9
60°	4719.7	4109.6	3273.0	691.5	396.0	180.9	122.8	74.4	58.1	52.2	39.1
62.5°	4456.8	3836.4	2905.3	431.3	367.8	177.1	109.2	84.7	52.7	46.2	34.2
65°	4057.5	3407.8	2422.3	278.1	278.7	196.7	95.6	83.1	49.4	40.7	29.3
67.5°	3433.3	2852.0	1908.4	186.3	157.5	167.9	83.7	57.0	48.3	34.8	22.8
70°	2506.0	2030.1	1242.4	124.4	94.0	134.2	70.1	40.7	45.6	28.8	16.3
72.5°	1831.8	1364.1	693.7	81.5	53.2	78.2	51.6	29.3	35.3	21.2	11.4
75°	1318.4	938.7	396.0	52.2	35.3	42.9	33.7	20.1	22.8	16.8	10.3
77.5°	634.5	457.4	179.8	28.8	23.9	21.7	17.9	12.5	14.1	15.2	9.2
80°	23.9	17.9	13.6	14.1	15.2	9.8	8.1	6.5	8.1	10.3	4.9
82.5°	0.0	0.0	0.0	1.6	2.2	2.7	3.3	2.7	3.3	3.8	0.5
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°	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9
2.5°	220.6	219.5	220.6	221.6	222.7	223.8	222.2	223.3	224.4	221.6	222.7
5°	203.2	202.6	205.9	207.5	209.7	210.8	209.7	209.7	209.1	205.9	205.9
7.5°	188.0	188.5	191.2	195.0	197.7	199.4	198.3	197.7	196.1	191.2	191.2
10°	176.6	176.6	180.9	184.2	188.0	189.6	188.5	186.9	185.2	180.4	179.8
12.5°	167.3	167.3	170.6	176.0	180.4	182.5	182.0	179.8	177.1	172.2	171.7
15°	158.6	158.1	163.0	167.9	173.8	176.6	175.5	173.8	168.9	164.6	163.5
17.5°	149.9	149.4	153.7	160.3	166.8	170.6	170.0	166.2	161.9	156.5	155.4
20°	141.2	140.2	145.6	152.1	158.6	162.4	161.3	158.1	152.7	147.2	146.1
22.5°	132.6	132.0	135.8	141.2	147.2	150.5	149.9	147.2	141.8	136.9	136.9
25°	122.8	122.8	125.5	129.3	133.6	135.3	135.8	134.7	131.5	128.7	128.7
27.5°	114.6	113.0	114.1	115.2	117.3	120.1	120.1	121.1	121.7	120.6	121.1
30°	108.1	105.4	103.8	101.6	100.5	101.6	102.7	106.5	110.3	112.5	113.5
32.5°	100.5	97.2	92.9	86.9	83.1	82.0	85.3	92.4	99.4	104.3	107.0
35°	92.9	88.5	80.4	71.7	66.8	65.2	69.0	77.1	87.5	96.2	100.0
37.5°	85.3	79.3	67.9	57.6	52.2	51.1	54.9	63.6	75.5	87.5	92.4
40°	76.6	69.5	56.0	45.1	40.7	39.7	42.9	51.6	64.1	77.7	85.3
42.5°	67.9	59.2	45.1	35.9	31.5	31.5	35.9	42.4	53.8	68.4	77.7
45°	59.2	50.0	36.9	28.8	26.1	26.6	29.3	35.9	45.1	60.3	69.0
47.5°	51.1	42.9	30.4	23.9	21.7	22.3	25.5	31.0	38.6	52.2	61.4
50°	44.0	36.4	26.6	20.1	18.5	19.6	22.8	27.7	34.2	46.2	53.8
52.5°	39.7	32.6	24.4	17.4	16.3	17.4	20.6	25.0	31.0	40.7	48.3
55°	37.5	32.1	24.4	15.8	14.1	15.2	18.5	22.8	27.7	36.9	43.5
57.5°	36.9	33.1	26.1	14.1	12.0	13.0	16.3	20.6	25.5	33.7	39.1
60°	34.8	31.5	25.5	11.4	9.2	10.9	13.6	17.9	23.4	31.5	36.4
62.5°	30.4	27.7	22.3	9.2	7.1	8.1	11.4	15.8	21.2	28.8	34.2
65°	25.0	22.3	17.4	6.0	4.3	5.4	8.7	13.6	18.5	26.1	31.0
67.5°	18.5	15.8	12.0	3.8	2.2	3.8	7.1	11.4	16.8	23.4	28.2
70°	11.4	9.2	6.5	2.2	1.6	3.3	6.5	10.9	15.2	21.7	26.6
72.5°	6.5	4.3	2.7	1.1	1.6	3.3	6.5	10.9	14.7	20.6	25.0
75°	4.9	2.7	1.1	0.5	1.1	2.7	6.0	9.8	14.1	19.6	23.9
77.5°	3.3	1.6	0.5	0.0	0.5	2.2	5.4	9.2	13.0	18.5	22.8
80°	0.5	0.0	0.0	0.0	0.0	1.6	4.9	8.1	12.0	16.3	20.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	3.8	7.1	10.3	13.6	16.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.4	8.1	10.3	11.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4	6.5	7.6
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°	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9
2.5°	222.2	225.4	225.4	227.6	230.3	235.2	237.9	241.7	244.5	247.2	248.3
5°	205.3	205.9	206.4	207.5	210.8	216.2	221.1	227.1	234.1	239.6	242.8
7.5°	191.2	191.2	191.2	192.9	196.1	199.9	204.8	213.0	221.1	227.6	233.1
10°	179.3	180.9	181.4	184.2	188.0	192.9	198.3	205.3	214.6	223.3	233.1
12.5°	171.7	173.3	176.0	178.7	182.5	188.0	193.9	203.2	222.2	240.1	260.8
15°	164.6	166.8	170.0	173.8	178.2	184.2	190.7	209.7	254.2	287.9	320.5
17.5°	157.0	160.3	164.6	168.4	173.8	180.4	188.5	225.4	312.9	368.9	424.3
20°	147.2	151.6	156.5	162.4	168.9	176.6	188.5	258.0	397.7	478.1	551.4
22.5°	138.0	142.3	148.3	155.9	163.5	171.1	191.2	307.5	506.8	608.4	701.3
25°	130.4	135.8	141.8	148.3	157.0	165.7	197.7	377.0	638.3	769.2	835.0
27.5°	123.3	129.8	135.8	141.2	148.8	158.6	212.4	469.9	793.7	926.8	978.4
30°	116.3	123.9	129.8	135.3	142.9	153.2	234.7	588.3	966.4	1095.7	1101.2
32.5°	110.3	117.3	124.4	129.8	136.9	148.8	265.6	726.9	1143.5	1268.5	1217.4
35°	103.8	111.9	118.4	124.4	132.0	145.0	301.5	876.3	1322.3	1427.1	1333.1
37.5°	97.2	106.5	114.6	119.0	126.6	141.2	327.6	1032.2	1504.8	1581.9	1434.7
40°	91.3	101.6	110.8	115.2	119.0	136.4	331.4	1191.9	1690.0	1734.6	1530.3
42.5°	84.7	96.2	104.3	110.3	113.5	133.1	308.6	1326.6	1845.4	1886.7	1655.3
45°	77.7	91.3	97.8	102.1	108.6	135.3	279.2	1430.9	2023.0	2094.2	1861.1
47.5°	70.6	85.8	91.3	94.5	103.2	148.3	268.4	1500.4	2315.8	2463.6	2208.3
50°	64.1	80.9	86.9	86.4	102.1	165.1	280.3	1553.1	2755.9	2929.7	2684.2
52.5°	57.0	75.5	82.6	80.4	110.3	178.2	304.2	1595.0	3094.3	3476.2	3323.6
55°	51.1	69.5	76.1	75.5	125.5	188.0	322.7	1374.4	3234.5	3984.1	4043.9
57.5°	46.7	63.0	68.4	77.7	135.3	188.0	373.2	975.7	3237.2	4357.9	5000.0
60°	42.9	57.0	60.8	85.3	131.5	178.2	369.4	597.6	2983.5	4332.4	5508.5
62.5°	39.7	51.6	56.5	87.5	116.3	176.6	333.6	370.5	2544.5	4002.6	5139.6
65°	36.9	47.3	54.3	80.4	105.4	189.0	224.9	266.2	2063.8	3626.7	4716.4
67.5°	34.2	43.5	57.6	65.7	95.6	168.9	162.4	189.0	1619.9	3214.4	4328.0
70°	32.1	41.3	60.8	53.8	83.7	132.0	115.2	143.4	1240.2	2682.0	3781.0
72.5°	30.4	38.6	51.1	42.4	67.9	102.1	80.4	104.3	810.5	2093.7	3082.4
75°	28.8	35.3	37.5	34.2	50.5	66.8	60.8	70.1	482.9	1530.3	2338.7
77.5°	28.2	33.1	30.4	27.7	34.2	39.7	46.2	47.3	235.8	765.4	1225.6
80°	25.0	29.9	26.1	22.8	23.4	26.1	34.2	31.5	53.8	194.5	327.0
82.5°	19.6	23.4	21.7	19.0	19.0	19.0	22.8	21.2	17.4	87.5	147.8
85°	13.6	16.3	16.3	15.2	14.7	14.7	14.1	13.6	4.9	5.4	8.1
87.5°	9.2	11.4	12.0	11.4	9.8	8.7	7.6	6.5	2.2	0.0	1.1
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°	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9
2.5°	252.1	253.7	253.7	251.5	249.9	245.5	241.2	236.9	235.8	235.2
5°	252.1	258.6	261.8	261.3	257.5	250.4	241.2	231.4	228.7	227.6
7.5°	248.3	260.8	270.5	272.2	265.1	252.6	235.8	221.1	217.3	215.7
10°	257.0	281.4	301.0	303.7	295.5	271.1	243.9	218.9	213.0	209.1
12.5°	303.7	343.9	367.8	379.2	363.4	332.5	287.4	242.8	229.2	223.3
15°	398.2	455.2	500.9	500.9	486.2	431.3	374.3	302.0	283.6	267.3
17.5°	519.3	591.0	631.2	626.9	604.6	566.1	497.6	393.9	356.4	339.5
20°	657.3	700.2	709.5	706.8	697.0	674.7	627.4	516.1	465.6	439.5
22.5°	776.8	765.4	751.8	741.0	738.3	744.8	738.3	652.4	612.8	566.6
25°	857.8	793.1	752.4	732.8	742.1	779.6	820.3	788.2	756.7	708.9
27.5°	901.8	789.9	731.2	711.1	726.9	780.1	868.6	923.0	890.4	867.6
30°	925.7	787.2	717.6	698.1	722.0	788.8	902.3	1049.0	1050.1	1013.7
32.5°	959.9	804.5	720.3	702.4	734.5	814.9	944.7	1177.2	1208.7	1189.2
35°	998.5	831.2	732.8	716.5	756.2	849.6	992.0	1306.5	1372.2	1365.7
37.5°	1034.9	861.0	762.2	746.4	789.3	879.5	1037.6	1433.6	1524.9	1547.7
40°	1072.9	902.9	852.3	867.6	891.5	926.8	1078.3	1543.9	1692.7	1727.0
42.5°	1162.5	1047.9	1125.1	1153.8	1157.1	1084.3	1167.4	1685.1	1857.9	1898.6
45°	1362.5	1306.0	1527.1	1567.8	1546.6	1326.1	1382.0	1888.9	2088.8	2109.4
47.5°	1615.1	1641.1	2077.4	2218.1	2090.9	1611.3	1642.2	2317.5	2511.4	2503.8
50°	1909.5	2032.8	2702.1	3034.0	2729.8	1981.7	1942.1	2844.4	3079.6	3056.3
52.5°	2257.7	2488.1	3452.9	3924.4	3636.5	2398.4	2382.1	3542.5	3685.9	3611.5
55°	2696.1	2927.5	4316.6	4975.6	4566.0	2906.9	2962.8	4351.9	4379.6	4143.3
57.5°	3350.2	3500.7	5334.6	6181.0	5536.2	3597.9	4003.7	5429.2	5097.8	4650.2
60°	4537.7	4237.8	6318.5	7414.2	6568.3	4569.8	5376.5	6067.5	5336.8	4719.7
62.5°	4951.1	4863.7	6934.5	7935.7	7262.6	5367.8	5733.4	5705.7	5027.2	4456.8
65°	4324.8	4707.7	6824.2	7660.3	7173.5	5236.3	5145.1	5306.4	4678.4	4057.5
67.5°	3995.0	4341.6	6406.5	6900.3	6679.7	4790.3	4586.1	4542.1	3927.6	3433.3
70°	3662.5	4005.9	5800.7	5862.1	5759.5	4063.5	3795.1	3500.1	2935.7	2506.0
72.5°	3262.7	3451.8	4960.3	4669.2	4552.9	3191.6	3135.1	2635.8	2200.7	1831.8
75°	2845.5	2790.6	3867.3	3204.6	3291.5	2483.2	2647.8	1935.6	1612.3	1318.4
77.5°	2069.8	2029.0	2590.2	1946.4	2155.6	1626.5	1461.3	772.5	735.6	634.5
80°	1154.9	1392.3	1398.8	1090.8	1360.8	1060.4	365.6	25.5	16.3	23.9
82.5°	536.7	598.7	758.4	505.8	776.3	525.3	75.5	0.0	0.0	0.0
85°	173.8	254.2	213.0	74.4	188.0	177.6	12.5	0.0	0.0	0.0
87.5°	10.3	21.2	5.4	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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