

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: P628808

Luminaire Tested: GWS-SA1A-735-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

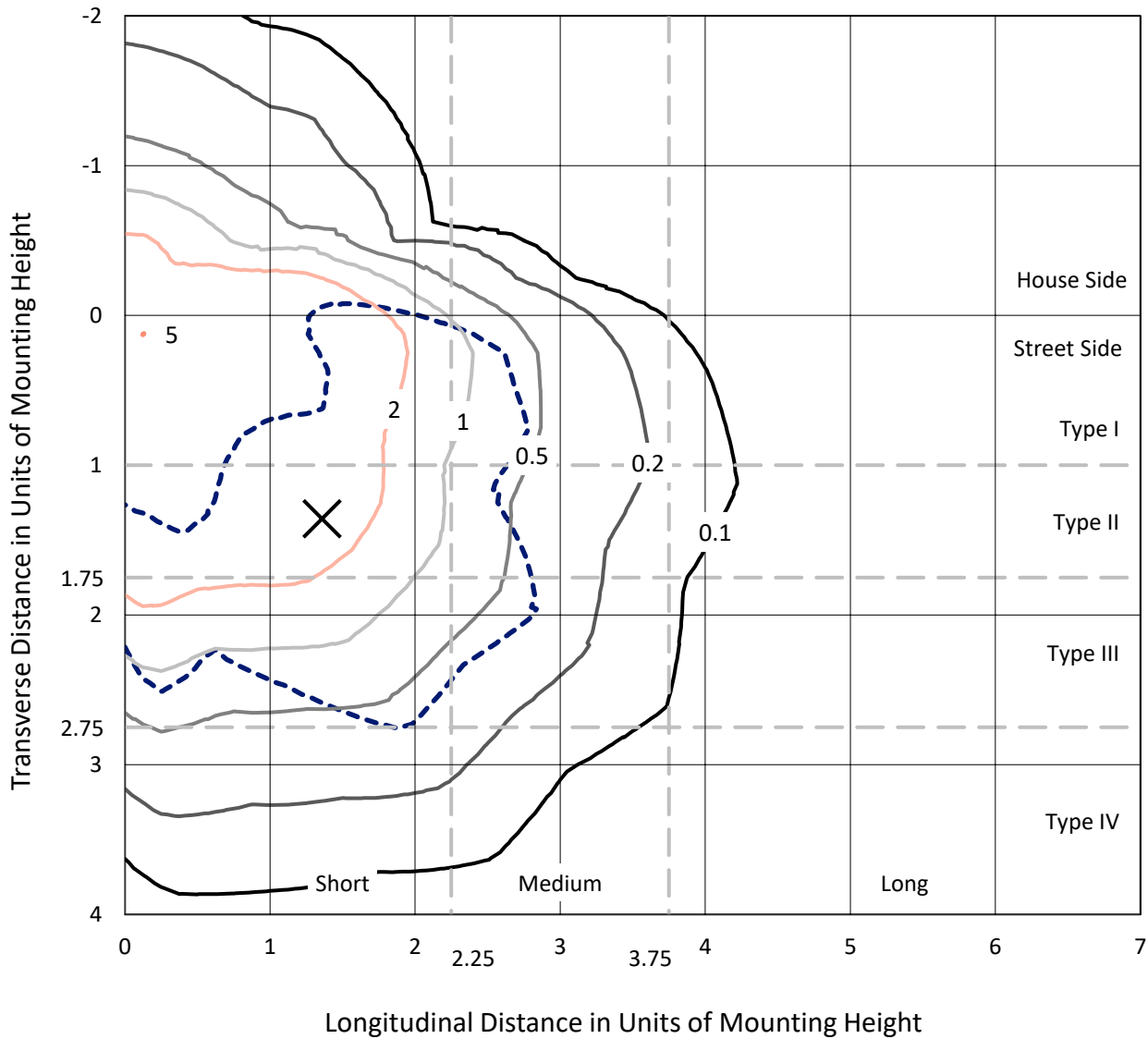
Lumens per Lamp: N/A  
Luminaire Lumens: 2655.7 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

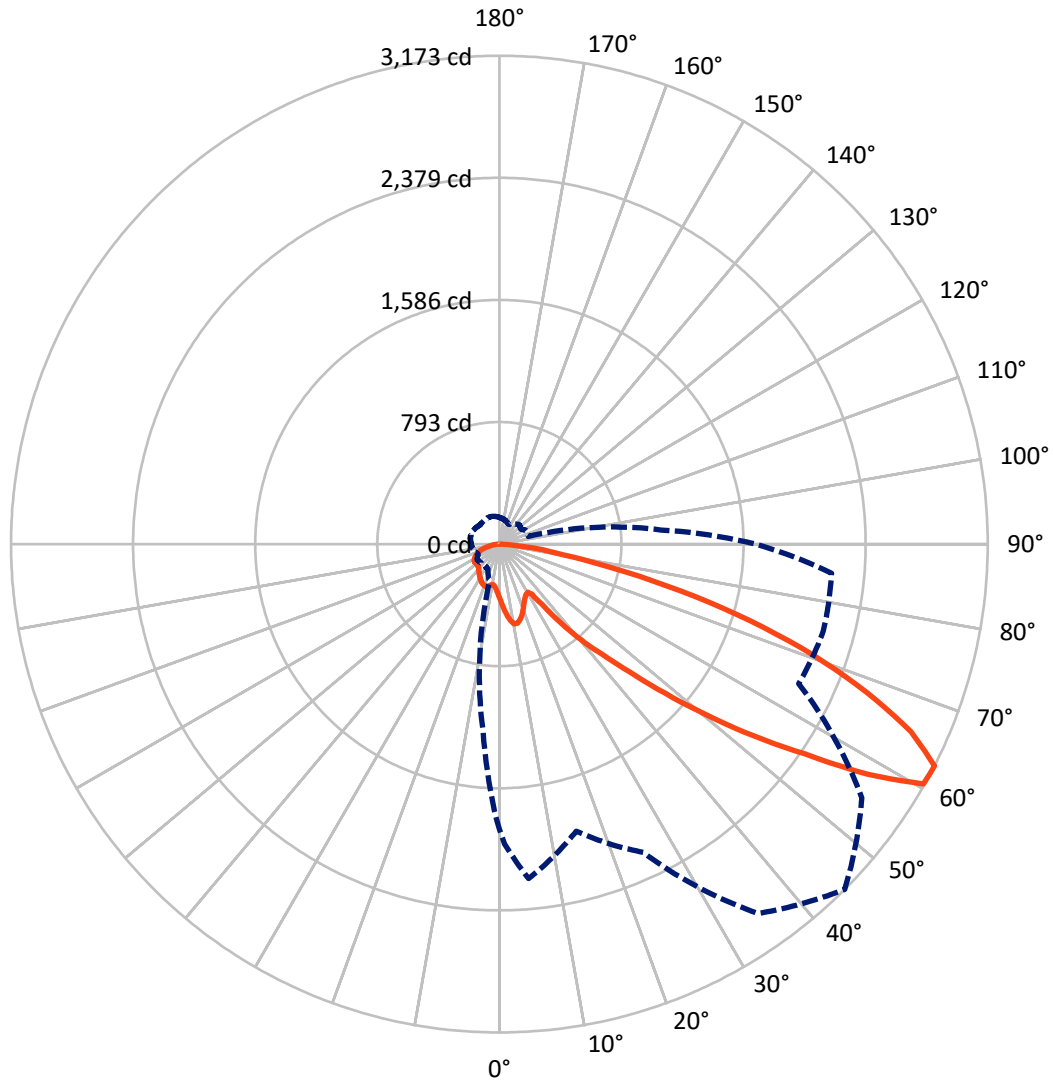
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type III - 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	633.7	0.0	633.7
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2022.0	0.0	2022.0
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	2655.7	0.0	2655.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.4	1.3
10°-20°	107.9	4.1
20°-30°	167.6	6.3
30°-40°	227.6	8.6
40°-50°	360.7	13.6
50°-60°	636.2	24.0
60°-70°	707.9	26.7
70°-80°	359.0	13.5
80°-90°	54.4	2.0
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°	2655.7	100.0
0°-180°	2655.7	100.0

**Coefficient of Utilization**



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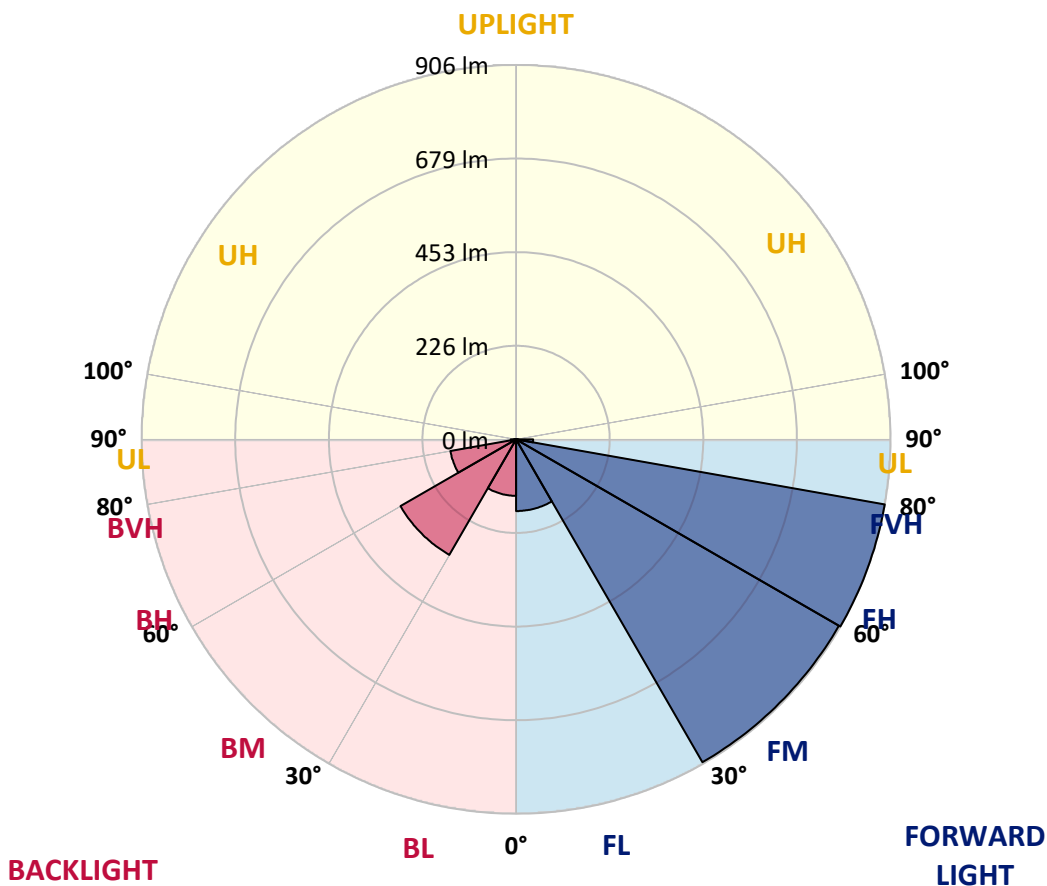
CATALOG NUMBER: GWS-SA1A-735-U-SLR-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.4	6.5			
FM (30°-60°)	901.7	34.0			
FH (60°-80°)	905.6	34.1			G1/1800
FVH (80°-90°)	41.3	1.6			G1/100
BL (0°-30°)	136.5	5.1	B1/500		
BM (30°-60°)	322.7	12.2	B1/1000		
BH (60°-80°)	161.3	6.1	B1/500		G1/500
BVH (80°-90°)	13.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5
2.5°	378.8	378.6	382.4	388.3	393.7	396.1	400.1	399.7	396.5	392.3	390.9
5°	408.6	409.4	416.0	428.9	443.1	449.2	451.8	450.8	445.0	437.5	424.4
7.5°	435.5	436.9	447.2	466.5	484.2	492.2	498.6	497.4	489.0	475.1	455.8
10°	455.2	456.8	469.1	491.8	511.5	518.5	526.8	527.2	519.8	501.1	481.3
12.5°	474.9	476.5	488.0	508.7	521.6	521.8	526.6	529.2	529.6	521.0	501.3
15°	495.4	496.8	507.3	518.9	518.3	507.1	507.1	512.1	523.2	529.4	515.7
17.5°	512.9	514.7	522.8	518.9	501.1	480.7	478.3	484.8	504.1	528.0	526.6
20°	527.4	528.8	533.2	507.9	475.3	448.8	444.2	451.6	477.7	519.3	534.8
22.5°	541.3	542.1	539.7	493.4	447.6	417.2	411.6	419.4	447.6	504.1	541.9
25°	557.8	556.9	545.5	478.3	422.2	392.3	386.4	395.3	424.6	483.8	549.5
27.5°	576.9	573.8	550.5	462.0	402.7	373.8	369.8	379.2	406.6	465.1	555.5
30°	593.1	587.3	551.3	447.6	392.7	365.9	363.5	372.4	397.7	452.4	563.2
32.5°	611.2	603.2	555.9	443.7	398.3	384.8	388.1	388.7	400.1	448.8	574.6
35°	637.2	626.7	568.6	454.8	456.2	478.9	490.6	474.9	436.5	456.8	596.4
37.5°	676.4	663.1	594.3	502.7	575.8	626.7	654.9	619.1	547.1	487.2	629.1
40°	724.0	707.1	627.3	591.1	687.6	769.1	819.1	766.7	660.9	563.0	675.2
42.5°	790.6	772.9	691.3	678.0	791.2	912.4	977.8	899.6	761.2	660.9	749.0
45°	906.6	889.5	808.5	765.0	912.4	1089.0	1180.6	1071.9	863.2	759.2	886.9
47.5°	1120.9	1100.8	982.6	861.6	1050.8	1318.2	1446.5	1288.0	969.1	871.8	1118.5
50°	1378.3	1359.0	1201.2	975.8	1203.6	1563.3	1741.6	1542.0	1091.2	1008.7	1395.4
52.5°	1687.9	1684.3	1513.0	1120.1	1362.6	1824.7	2069.2	1823.3	1224.9	1193.1	1709.0
55°	1967.0	2002.4	1909.1	1340.3	1568.1	2153.0	2405.9	2130.1	1406.2	1497.9	2076.4
57.5°	2117.4	2212.5	2355.9	1789.5	1866.9	2545.5	2821.5	2504.7	1717.9	2005.4	2417.0
60°	2018.1	2125.9	2385.6	2127.7	2163.3	2859.9	3164.6	2819.5	2023.9	2357.7	2397.7
62.5°	1852.8	1949.5	2180.5	1930.2	2209.1	2929.1	3172.6	2874.4	2145.6	2178.9	2165.9
65°	1656.8	1754.3	1999.0	1684.9	2063.3	2764.8	2938.6	2713.0	1927.0	1968.6	1973.4
67.5°	1396.4	1486.5	1735.6	1498.1	1880.8	2523.8	2579.3	2482.9	1774.6	1840.9	1771.6
70°	1043.3	1124.6	1344.5	1217.4	1585.4	2209.7	2164.9	2179.1	1603.5	1669.4	1479.8
72.5°	713.0	774.1	962.7	956.7	1214.0	1769.0	1706.4	1841.7	1339.3	1426.8	1128.2
75°	498.6	546.3	695.9	755.8	917.7	1311.1	1215.2	1378.5	1045.9	1170.8	823.2
77.5°	306.0	337.6	439.5	560.0	590.3	897.3	754.8	1037.3	734.5	853.9	549.1
80°	153.0	168.3	213.5	352.1	391.5	528.8	416.8	602.2	497.0	528.8	303.8
82.5°	46.2	51.1	62.5	133.7	202.9	304.4	246.3	349.9	271.4	247.9	119.6
85°	12.3	13.9	17.3	39.6	71.2	109.2	83.2	169.5	130.1	91.5	45.0
87.5°	1.0	1.0	0.8	0.8	0.4	0.0	0.0	12.1	24.3	13.9	7.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5
2.5°	383.8	383.0	374.8	368.8	361.7	354.9	347.8	341.6	334.6	327.5	325.5
5°	414.8	409.2	391.7	377.0	362.5	349.9	338.8	327.3	318.1	309.0	305.6
7.5°	442.1	432.3	407.0	384.6	364.5	348.8	332.6	315.9	302.8	289.9	286.7
10°	466.9	453.8	421.8	393.7	371.4	353.5	334.4	312.1	293.2	277.5	273.2
12.5°	485.2	470.9	434.7	402.3	377.0	356.9	338.0	318.3	298.4	278.1	273.4
15°	499.6	484.8	445.4	409.0	377.2	351.3	333.0	326.1	319.9	300.0	291.5
17.5°	511.3	495.6	454.6	413.0	371.8	334.2	318.3	328.3	344.2	331.8	315.9
20°	522.0	506.1	461.6	415.8	359.7	310.6	301.8	323.1	347.0	346.6	332.4
22.5°	533.6	518.1	471.9	417.4	342.8	286.7	291.9	315.5	335.0	340.8	332.0
25°	548.5	534.8	486.2	421.0	323.7	270.2	284.7	305.6	321.9	323.3	318.1
27.5°	565.8	555.5	507.5	429.5	305.2	261.8	276.3	291.7	306.6	307.2	301.0
30°	584.7	577.9	527.2	436.5	291.3	259.2	265.4	277.9	287.3	288.9	283.5
32.5°	608.8	602.8	544.7	431.9	283.1	258.6	255.4	261.8	269.6	269.6	265.4
35°	642.0	633.6	563.2	414.2	273.0	256.2	244.7	246.5	249.9	250.5	248.1
37.5°	689.0	675.2	581.9	379.2	256.6	247.5	232.4	230.2	231.4	233.0	232.4
40°	747.4	724.6	609.2	337.2	236.9	230.8	219.8	215.5	214.5	217.8	219.0
42.5°	820.7	786.0	638.6	298.0	219.0	211.7	204.9	201.3	199.7	205.1	208.3
45°	938.0	880.7	666.7	259.2	208.9	195.4	190.8	188.2	189.0	195.4	199.5
47.5°	1140.4	1025.2	693.5	234.6	208.1	183.8	178.1	178.7	181.0	187.8	192.6
50°	1396.6	1218.9	711.4	224.4	210.5	176.7	169.3	172.5	175.9	182.6	188.2
52.5°	1657.4	1399.2	690.1	218.8	210.3	176.9	161.1	170.7	172.3	178.9	185.0
55°	1836.7	1419.3	596.2	210.1	207.1	185.0	154.6	169.9	170.9	176.9	182.4
57.5°	1905.1	1350.5	454.6	212.5	197.4	191.2	151.8	164.3	171.5	176.7	182.4
60°	1822.4	1220.9	276.3	218.8	182.0	190.8	153.6	154.0	166.5	175.3	181.0
62.5°	1666.6	1054.4	194.0	201.1	170.7	180.2	157.8	142.0	157.6	168.3	173.3
65°	1488.1	858.5	148.0	173.1	165.3	163.7	159.2	131.3	145.6	156.0	160.4
67.5°	1302.1	667.3	120.2	129.1	149.4	148.0	145.6	121.8	131.3	138.7	143.8
70°	1067.9	466.9	101.5	96.9	128.1	132.7	127.3	110.0	113.0	120.6	124.7
72.5°	781.1	290.9	83.4	80.0	102.9	116.0	113.2	96.9	98.3	105.6	108.8
75°	561.8	166.5	67.0	65.9	78.6	99.3	93.7	83.4	85.1	90.5	92.7
77.5°	357.1	92.7	51.7	53.1	56.3	74.2	80.0	71.4	71.4	74.6	76.4
80°	191.2	53.1	37.8	38.4	39.4	56.7	63.1	55.3	55.3	53.1	55.3
82.5°	78.0	30.6	25.9	24.1	26.3	38.8	44.2	35.2	36.8	33.2	34.0
85°	25.7	15.3	12.9	12.7	12.5	17.1	21.3	17.5	20.9	13.3	13.9
87.5°	3.4	2.8	1.6	1.2	1.4	0.6	1.2	1.4	1.4	1.0	1.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5
2.5°	324.1	322.5	316.7	318.1	317.1	315.5	317.1	314.1	316.5	317.3	322.3
5°	303.0	299.2	293.6	290.7	290.1	288.5	288.7	287.3	287.7	291.1	296.8
7.5°	284.1	280.5	276.1	274.1	272.2	270.4	270.2	270.0	271.6	274.7	280.1
10°	270.4	268.4	266.6	267.4	266.6	265.8	264.4	264.4	267.0	272.4	279.1
12.5°	270.4	270.0	270.4	272.8	272.6	272.8	271.0	272.0	279.3	288.5	298.0
15°	284.9	281.7	281.7	282.9	282.5	282.5	282.5	286.7	303.2	317.5	327.5
17.5°	302.6	293.2	289.1	288.5	288.3	288.3	289.1	298.2	323.9	339.0	344.8
20°	314.9	297.0	290.3	287.7	287.9	288.3	290.7	303.2	331.6	339.2	337.8
22.5°	317.1	294.0	285.9	282.1	282.7	283.1	286.7	300.0	321.1	322.3	319.5
25°	306.8	285.5	276.9	273.8	274.7	274.5	277.7	287.3	302.4	302.0	300.4
27.5°	291.5	272.0	265.6	263.6	265.0	263.4	264.4	271.8	283.5	283.1	282.5
30°	275.9	259.0	253.1	252.1	253.9	251.5	251.7	258.0	266.0	265.6	265.4
32.5°	260.2	245.9	240.7	240.7	242.5	239.9	240.3	245.7	251.1	249.5	249.5
35°	245.3	235.2	231.0	230.2	231.6	229.8	230.6	235.6	237.7	235.4	234.0
37.5°	232.2	227.8	223.6	220.8	221.0	221.2	223.6	227.4	226.2	223.0	221.2
40°	220.2	220.2	216.1	210.9	210.3	211.7	215.7	220.0	216.5	212.9	210.7
42.5°	211.5	213.3	209.5	204.3	203.1	205.5	209.9	212.9	208.9	204.9	201.9
45°	203.5	207.9	205.3	199.5	197.8	200.7	206.3	207.5	202.1	198.2	196.0
47.5°	197.8	203.9	202.1	196.4	194.0	198.0	203.9	203.7	196.8	192.8	191.0
50°	193.8	201.5	201.3	196.4	193.8	198.9	204.1	201.5	194.0	189.8	188.0
52.5°	190.6	201.3	202.7	199.9	198.0	202.5	205.7	200.7	192.0	187.6	186.2
55°	189.2	202.1	203.1	200.5	198.9	202.9	205.7	202.3	192.0	188.0	186.8
57.5°	189.6	201.1	201.3	197.6	194.8	199.9	204.3	203.3	194.2	189.6	188.2
60°	187.2	195.6	196.0	190.4	187.2	193.2	201.1	200.5	193.2	188.4	185.8
62.5°	179.1	186.6	186.8	181.6	176.9	185.6	194.2	194.0	187.4	182.6	179.6
65°	165.7	173.5	175.5	170.5	166.9	176.1	185.2	184.8	178.1	173.7	170.7
67.5°	149.0	157.4	161.3	157.8	156.4	164.9	173.3	173.1	167.7	163.5	160.9
70°	128.7	135.7	142.2	142.2	141.1	150.8	159.8	159.0	154.0	150.8	148.8
72.5°	111.8	117.2	119.2	121.2	124.3	134.3	142.0	142.6	138.9	137.3	138.9
75°	95.1	98.5	100.3	98.7	104.0	114.4	124.5	125.5	121.6	119.0	119.6
77.5°	78.2	82.0	83.8	80.2	79.8	93.1	105.4	107.6	104.4	100.3	101.5
80°	56.5	61.5	64.5	62.1	61.3	67.2	84.0	86.5	83.4	80.2	82.0
82.5°	34.6	37.4	38.2	40.6	45.6	48.1	54.1	62.1	59.9	57.1	62.1
85°	13.7	16.3	18.1	20.5	23.9	28.4	33.4	39.8	36.2	35.0	41.2
87.5°	0.8	0.2	0.0	0.4	3.4	6.6	14.3	19.7	16.5	17.7	21.3
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°	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5
2.5°	326.3	331.6	338.6	344.4	351.9	358.9	366.1	373.4	377.2	378.8
5°	303.2	312.9	324.1	336.6	351.1	366.3	381.8	397.7	407.8	408.6
7.5°	289.3	303.2	318.7	334.4	352.3	373.4	397.9	422.4	432.7	435.5
10°	293.8	309.2	321.5	336.2	355.9	382.2	411.2	439.9	451.8	455.2
12.5°	311.4	314.5	318.3	331.8	355.9	389.9	424.8	459.0	471.7	474.9
15°	326.1	311.6	304.8	319.1	351.1	396.5	439.3	477.1	492.4	495.4
17.5°	327.3	302.4	287.5	300.4	342.6	401.1	453.2	497.2	510.1	512.9
20°	315.1	292.5	273.2	281.1	331.2	403.1	463.3	511.9	524.6	527.4
22.5°	301.2	284.5	263.6	263.2	317.3	405.3	475.3	525.8	539.5	541.3
25°	288.1	273.4	255.8	250.1	301.2	409.6	491.6	546.7	557.1	557.8
27.5°	272.8	261.6	249.5	244.1	287.1	417.6	515.7	571.6	577.9	576.9
30°	259.0	250.5	245.1	243.5	278.3	423.6	538.7	596.2	596.6	593.1
32.5°	244.3	241.1	241.1	246.3	271.0	422.2	557.4	620.1	616.3	611.2
35°	231.2	231.8	236.0	248.3	259.0	408.2	575.2	650.0	644.4	637.2
37.5°	218.8	223.4	229.4	241.3	243.1	387.2	596.2	692.5	685.4	676.4
40°	208.1	215.1	222.2	228.0	226.2	357.5	625.3	742.3	734.5	724.0
42.5°	199.7	206.5	214.3	214.9	215.5	326.5	656.3	803.5	802.0	790.6
45°	194.2	198.7	206.1	205.1	214.9	292.3	684.8	896.7	915.2	906.6
47.5°	190.6	194.0	194.8	199.1	220.2	261.8	721.6	1079.3	1130.8	1120.9
50°	188.6	192.0	183.0	199.5	221.0	242.1	772.5	1308.5	1391.4	1378.3
52.5°	188.4	187.6	173.9	203.7	216.5	230.0	799.0	1475.8	1659.6	1687.9
55°	188.8	178.7	169.3	204.9	207.7	225.6	710.2	1556.2	1907.1	1967.0
57.5°	185.2	169.1	171.9	200.1	191.0	237.5	525.0	1527.5	2006.0	2117.4
60°	178.3	159.8	176.7	187.0	173.9	217.1	361.5	1399.2	1903.5	2018.1
62.5°	168.5	153.4	176.1	170.1	167.7	177.7	248.5	1219.7	1740.8	1852.8
65°	157.4	148.2	166.7	153.8	155.2	136.7	175.7	1017.0	1546.6	1656.8
67.5°	145.6	145.0	152.8	136.9	131.1	108.4	128.1	815.1	1297.1	1396.4
70°	132.1	136.5	138.9	121.6	106.4	85.1	95.1	570.0	956.9	1043.3
72.5°	118.6	119.0	122.4	105.8	79.6	68.2	71.4	345.2	650.0	713.0
75°	105.0	101.1	104.4	86.1	59.3	55.9	55.1	213.3	449.0	498.6
77.5°	90.3	86.1	81.8	64.7	47.7	43.2	42.2	119.6	275.5	306.0
80°	73.4	67.8	61.1	47.5	34.8	31.0	30.8	58.3	137.3	153.0
82.5°	57.1	46.4	44.6	29.6	21.5	18.9	20.1	22.3	41.4	46.2
85°	40.0	33.8	23.7	11.9	9.7	7.8	7.6	6.6	11.1	12.3
87.5°	22.3	14.7	7.6	1.4	1.6	1.8	1.4	1.0	1.0	1.0
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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