

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: P628802

Luminaire Tested: GWS-SA1A-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

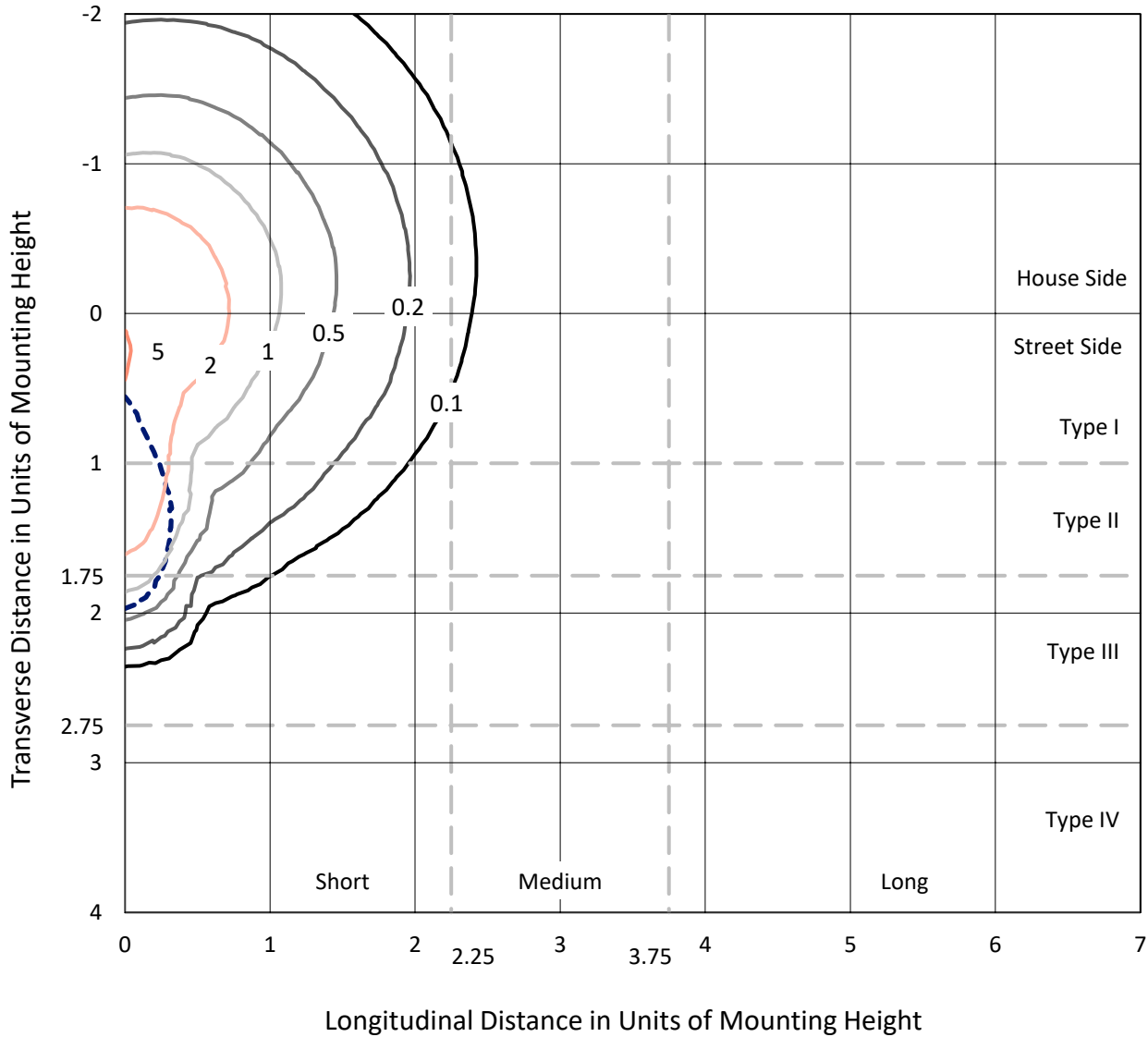
Lumens per Lamp: N/A  
Luminaire Lumens: 2183.2 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

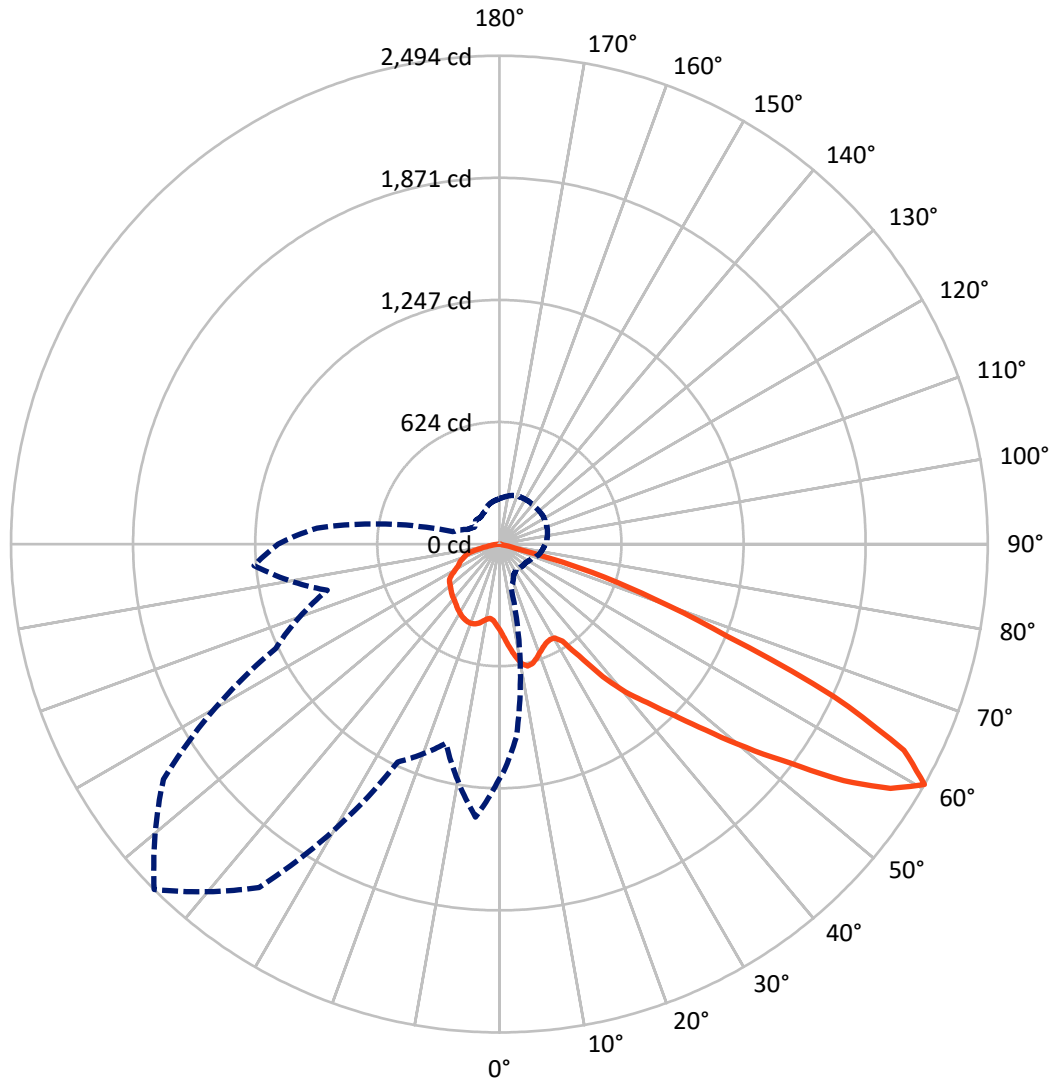
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	746.9	0.0	746.9
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	1436.3	0.0	1436.3
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	2183.2	0.0	2183.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	2.0
10°-20°	138.0	6.3
20°-30°	224.7	10.3
30°-40°	315.7	14.5
40°-50°	432.0	19.8
50°-60°	554.2	25.4
60°-70°	373.2	17.1
70°-80°	93.3	4.3
80°-90°	9.1	0.4
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°	2183.2	100.0
0°-180°	2183.2	100.0

**Coefficient of Utilization**



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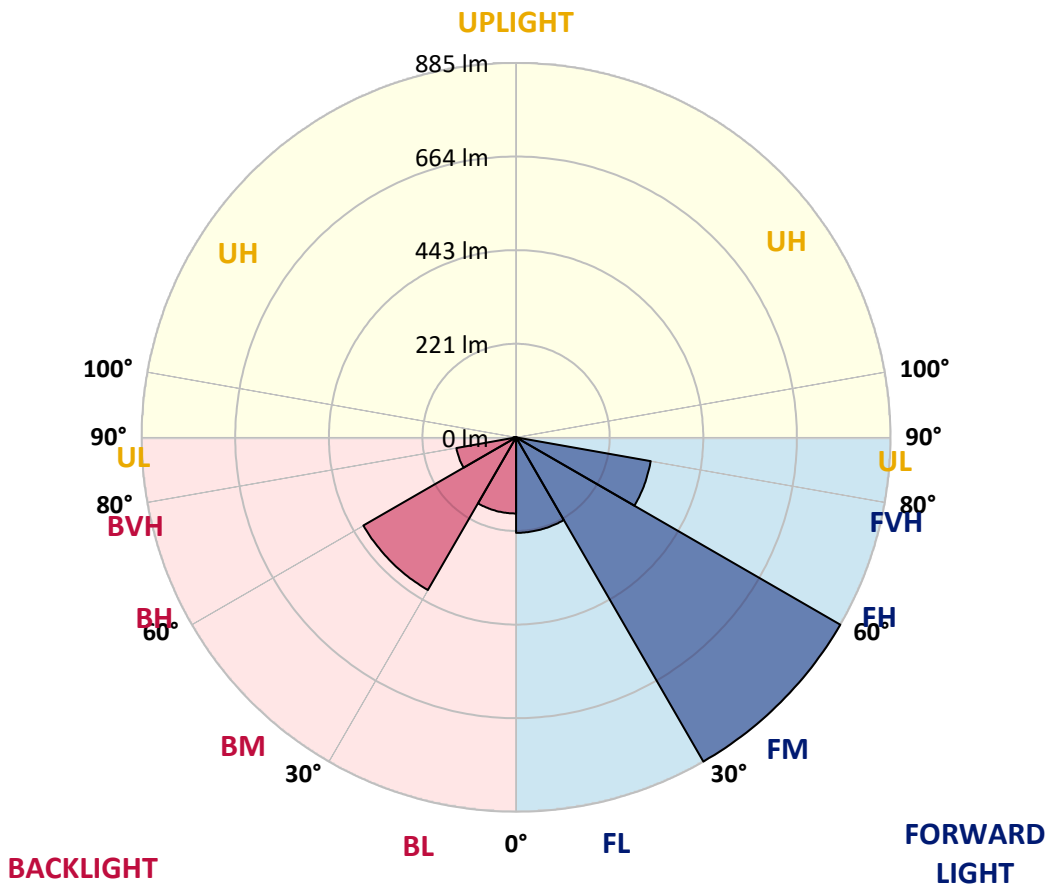
CATALOG NUMBER: GWS-SA1A-735-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.7	10.3			
FM (30°-60°)	885.1	40.5			
FH (60°-80°)	323.2	14.8			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	180.0	8.2	B1/500		
BM (30°-60°)	416.8	19.1	B1/1000		
BH (60°-80°)	143.3	6.6	B1/500		G1/500
BVH (80°-90°)	6.7	0.3			G0/10
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°	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
2.5°	465.9	464.9	463.9	456.0	454.0	448.4	444.3	439.3	432.1	428.1	424.6
5°	495.0	493.4	488.0	471.9	461.4	450.0	440.5	430.1	419.0	411.8	406.1
7.5°	522.6	522.2	512.9	486.4	469.5	453.0	440.1	424.8	409.0	398.1	390.9
10°	548.1	545.1	534.0	499.4	477.3	458.4	444.6	427.7	409.2	394.5	384.8
12.5°	570.6	566.8	551.5	511.5	484.2	460.8	445.8	431.9	419.6	407.4	396.3
15°	589.1	584.5	569.0	522.8	490.2	459.4	438.3	427.5	431.7	437.1	424.8
17.5°	606.4	601.6	582.7	531.0	492.0	450.8	420.0	415.4	436.7	461.4	455.8
20°	620.9	615.5	593.5	535.0	488.8	434.3	396.3	404.3	432.5	462.0	471.1
22.5°	636.6	632.1	605.8	540.9	484.8	411.6	376.4	396.1	425.2	451.2	464.9
25°	661.7	656.3	624.9	551.1	482.8	390.3	362.1	388.1	415.2	438.7	449.4
27.5°	698.1	688.0	651.0	569.0	485.0	370.2	353.1	378.2	403.5	423.6	432.3
30°	737.7	725.6	680.0	587.5	488.2	357.9	348.2	366.9	385.6	405.7	415.2
32.5°	784.5	773.9	711.0	601.4	481.3	352.3	344.6	354.7	369.6	385.6	393.5
35°	840.4	821.3	744.7	612.6	459.2	344.0	341.4	341.2	349.0	364.7	373.6
37.5°	900.6	880.1	786.4	624.7	424.8	330.9	333.8	325.3	332.6	345.0	355.1
40°	949.8	928.3	828.4	641.2	381.8	310.4	316.9	307.8	312.3	325.1	336.4
42.5°	998.1	975.2	867.6	659.9	340.2	290.3	293.6	290.1	291.5	305.0	320.7
45°	1061.4	1035.7	915.8	673.2	302.8	274.5	271.4	265.6	273.0	290.5	307.2
47.5°	1167.2	1136.4	994.9	681.8	275.7	265.4	251.5	248.1	257.4	276.9	294.2
50°	1290.8	1264.3	1121.1	681.4	255.4	257.8	232.2	229.2	244.5	264.2	282.5
52.5°	1392.2	1365.2	1229.1	661.3	238.7	241.5	221.0	212.5	233.4	251.7	270.0
55°	1474.0	1443.6	1278.8	577.3	217.6	215.5	208.7	193.2	219.6	239.3	256.4
57.5°	1430.0	1393.8	1218.6	438.9	195.8	183.2	187.6	176.1	200.7	225.4	241.9
60°	1198.9	1166.4	990.0	233.6	172.3	153.0	162.3	164.1	180.0	208.7	225.6
62.5°	823.6	799.8	670.9	141.7	135.9	122.8	137.3	150.4	162.3	186.6	201.3
65°	402.9	395.9	335.6	90.9	95.1	99.3	113.8	129.7	147.2	168.5	184.0
67.5°	111.0	111.8	101.7	71.0	75.0	86.7	98.1	110.8	128.3	148.0	163.7
70°	48.9	49.7	51.3	54.7	62.3	73.0	84.8	97.9	114.0	130.5	145.6
72.5°	34.0	34.8	37.2	41.6	48.5	58.5	69.8	82.2	98.9	112.8	125.3
75°	20.9	21.5	23.7	27.5	32.2	39.8	50.9	62.3	77.0	89.7	100.7
77.5°	11.1	10.7	12.1	14.7	18.7	22.7	30.2	37.4	47.9	58.1	67.4
80°	6.0	5.8	6.6	8.0	9.2	12.5	17.5	22.3	28.3	34.2	39.2
82.5°	2.6	2.4	2.6	3.4	4.2	6.0	8.8	12.3	15.7	19.7	22.9
85°	0.0	0.0	0.0	0.2	1.0	1.6	3.0	4.4	6.4	8.8	10.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
2.5°	422.6	417.6	417.2	413.2	413.6	413.8	409.8	408.2	409.6	411.2	410.4
5°	404.1	398.9	396.7	392.9	392.5	390.7	389.1	387.0	388.5	389.9	390.7
7.5°	388.1	384.6	383.2	382.2	382.6	381.8	378.6	376.8	376.6	377.2	378.0
10°	382.8	380.0	381.8	384.6	386.6	388.1	384.6	381.6	378.8	377.6	377.6
12.5°	394.1	390.5	394.1	397.1	401.1	402.1	398.3	395.1	394.1	395.3	397.7
15°	419.0	410.6	410.4	412.2	415.4	417.0	413.4	411.8	411.8	419.4	425.4
17.5°	443.9	430.1	424.2	423.2	425.2	425.9	422.8	421.4	425.0	439.9	451.2
20°	461.4	444.6	431.9	429.5	430.1	430.3	427.9	426.9	432.1	450.2	459.6
22.5°	459.6	447.2	431.7	428.7	429.7	429.3	427.1	426.7	430.9	446.6	451.0
25°	447.2	437.5	424.4	422.4	424.0	423.8	421.6	420.6	422.4	432.9	433.3
27.5°	432.9	424.4	413.2	412.6	415.2	416.6	412.8	409.8	409.2	416.2	414.6
30°	415.8	409.6	400.5	400.9	405.7	406.5	401.9	397.5	396.3	400.1	397.9
32.5°	395.5	393.5	388.7	389.7	394.3	395.9	391.1	386.4	385.0	386.2	381.6
35°	378.2	377.4	377.8	379.6	383.6	384.8	380.8	377.2	375.2	371.0	364.9
37.5°	360.3	362.5	368.3	371.8	374.0	373.6	371.4	368.7	365.5	357.7	350.3
40°	343.6	349.2	359.7	363.5	364.3	364.5	362.9	360.7	356.7	346.2	337.8
42.5°	330.7	337.0	350.9	356.7	357.1	357.5	355.9	354.1	348.4	334.6	326.3
45°	317.3	325.5	341.8	348.8	348.4	348.2	346.8	346.0	339.4	323.3	314.3
47.5°	305.8	315.5	333.0	339.0	338.8	338.6	337.6	337.6	330.9	313.5	303.2
50°	294.6	305.6	323.9	328.9	329.3	328.9	328.5	329.1	321.3	302.6	292.5
52.5°	282.3	294.8	313.9	318.5	320.9	321.9	321.9	320.5	311.2	291.7	280.7
55°	268.8	280.7	302.8	309.0	311.0	312.9	312.9	310.0	301.4	281.7	269.8
57.5°	252.1	262.6	280.1	286.3	291.1	292.3	292.3	287.7	280.7	261.8	252.1
60°	234.0	243.1	254.9	261.6	265.2	262.8	264.6	263.4	257.8	240.3	232.2
62.5°	209.9	219.2	232.2	239.1	240.7	238.3	240.7	240.5	232.8	217.1	207.5
65°	192.6	201.7	214.5	223.4	226.0	225.4	227.0	224.6	215.1	200.3	191.0
67.5°	172.1	181.8	196.6	206.5	211.9	212.5	214.7	209.7	200.1	183.8	172.1
70°	152.6	160.9	172.3	181.6	189.2	193.0	193.4	186.2	174.1	160.6	152.2
72.5°	132.1	140.5	154.4	164.5	174.1	178.5	178.5	169.7	156.6	141.7	132.7
75°	107.2	115.0	127.7	138.5	149.6	155.2	155.0	147.4	132.9	118.8	109.4
77.5°	72.6	78.4	86.5	94.7	96.3	100.7	102.9	93.3	85.3	77.6	69.2
80°	42.2	45.8	50.3	54.9	55.9	57.3	53.7	50.1	45.8	40.8	37.0
82.5°	24.7	27.1	29.4	33.0	33.6	34.0	30.8	29.2	25.7	22.7	20.3
85°	12.1	12.9	14.9	16.7	15.9	15.5	14.1	12.5	11.1	9.9	8.6
87.5°	2.4	2.4	3.6	3.4	2.8	2.4	1.4	1.8	0.4	0.4	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
2.5°	413.0	416.4	420.6	426.3	432.7	439.5	446.2	451.2	456.2	463.7	462.4
5°	391.9	397.7	404.3	413.0	423.4	435.3	448.6	461.8	476.1	488.2	493.4
7.5°	379.6	386.0	393.9	405.1	418.6	433.1	451.8	473.3	496.4	512.3	522.2
10°	379.6	387.9	398.1	409.0	420.8	435.7	458.8	485.8	515.5	536.4	547.9
12.5°	401.5	409.8	412.0	411.6	418.2	434.7	464.5	498.8	534.4	556.5	570.6
15°	435.7	438.5	421.8	406.5	407.6	427.5	467.1	509.3	550.7	577.3	592.5
17.5°	458.6	451.2	421.4	394.7	389.1	415.2	467.1	519.3	568.0	598.0	612.2
20°	460.4	441.9	411.2	383.2	368.7	398.9	463.9	527.0	584.7	617.9	633.1
22.5°	444.6	426.3	400.3	373.4	352.1	379.2	458.6	532.8	599.0	636.6	655.5
25°	426.5	411.2	389.3	363.3	340.6	359.3	453.8	542.7	618.9	661.9	681.0
27.5°	408.8	395.9	376.0	354.9	334.2	342.0	450.8	557.1	642.6	697.9	714.4
30°	391.5	379.8	361.7	346.8	330.7	330.7	448.2	573.8	674.0	738.3	754.8
32.5°	374.0	362.9	348.2	339.0	328.7	326.3	440.9	589.5	706.3	782.5	799.4
35°	357.7	346.6	335.4	331.6	327.7	322.9	423.0	601.8	737.9	834.2	848.7
37.5°	342.4	331.8	323.3	322.3	322.7	313.7	394.9	612.0	777.3	887.1	894.7
40°	329.1	317.3	310.6	310.4	312.5	298.8	359.3	626.7	822.3	931.9	928.7
42.5°	317.3	304.8	296.8	298.6	297.4	283.9	324.5	640.2	861.6	973.9	967.5
45°	305.6	293.6	282.3	284.9	283.5	274.7	295.0	650.0	905.0	1024.4	1025.2
47.5°	294.4	282.5	271.2	268.0	267.8	271.8	272.2	653.3	975.8	1105.6	1087.3
50°	283.9	272.0	260.4	249.5	253.7	266.2	255.4	650.8	1081.7	1195.3	1144.3
52.5°	273.0	261.8	248.9	229.4	240.5	252.7	240.3	642.2	1146.5	1274.5	1244.0
55°	260.6	249.9	232.4	208.7	222.2	224.8	224.8	558.6	1174.0	1353.0	1371.9
57.5°	243.9	229.8	202.1	183.0	195.0	185.0	208.3	390.9	1128.6	1328.2	1401.6
60°	225.0	209.9	180.6	166.9	170.5	152.8	177.5	245.1	935.3	1130.2	1257.2
62.5°	200.1	186.2	161.9	151.2	143.8	124.7	143.0	155.0	641.2	839.2	925.9
65°	183.4	168.1	146.4	132.3	117.0	100.3	94.9	101.7	344.8	469.7	528.2
67.5°	163.7	148.6	128.1	110.4	98.1	86.1	76.6	74.2	118.2	156.4	169.3
70°	145.0	130.5	113.4	96.9	84.6	72.8	63.5	56.9	54.7	54.3	53.5
72.5°	125.9	112.4	98.1	82.8	69.4	58.5	50.3	42.6	39.4	38.4	37.4
75°	103.1	92.5	78.2	61.7	50.9	40.8	34.4	29.4	26.5	25.5	24.3
77.5°	66.4	61.5	49.1	39.8	30.8	24.3	20.9	17.7	15.9	15.5	14.5
80°	35.4	33.0	27.1	22.9	18.3	14.9	13.1	11.3	10.3	9.9	9.4
82.5°	19.7	17.9	15.1	13.3	10.7	9.0	8.0	7.2	6.6	6.4	6.2
85°	8.8	7.6	6.0	5.6	5.0	4.6	4.4	4.0	3.8	3.6	3.4
87.5°	0.4	0.8	1.0	0.8	0.8	1.2	1.4	1.4	1.2	1.2	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
2.5°	469.9	475.9	476.5	478.5	475.9	475.3	471.1	468.7	466.5	465.9
5°	506.5	518.5	523.4	526.8	523.6	522.0	512.7	503.1	497.6	495.0
7.5°	544.1	562.2	571.6	575.8	576.2	569.0	553.1	535.0	526.0	522.6
10°	577.7	600.0	612.4	620.5	617.7	608.8	587.1	562.6	551.1	548.1
12.5°	602.6	623.9	633.5	638.8	638.6	633.8	613.2	586.7	573.6	570.6
15°	618.7	631.3	631.9	633.1	636.6	643.0	632.3	607.8	593.3	589.1
17.5°	631.3	626.3	616.9	613.6	621.3	639.2	645.6	625.7	610.0	606.4
20°	639.4	614.0	597.4	591.1	600.0	629.1	653.7	641.8	625.5	620.9
22.5°	645.6	602.6	575.6	571.4	580.7	618.3	661.9	660.9	643.0	636.6
25°	655.5	594.9	560.4	557.3	566.0	613.0	673.0	686.8	670.9	661.7
27.5°	670.9	594.1	552.5	551.5	563.4	617.7	688.8	724.8	704.9	698.1
30°	692.5	601.8	554.3	556.3	570.8	634.4	713.6	768.3	748.4	737.7
32.5°	723.4	622.3	581.9	590.5	601.2	661.1	749.8	815.3	800.2	784.5
35°	764.2	678.6	663.3	700.1	690.0	719.6	793.4	872.4	854.1	840.4
37.5°	818.7	794.0	808.1	858.7	834.4	830.2	846.7	924.3	914.2	900.6
40°	895.1	900.2	926.1	992.6	957.5	930.3	912.0	963.3	966.7	949.8
42.5°	945.8	968.9	1031.5	1107.1	1058.6	993.7	966.7	1013.2	1013.4	998.1
45°	964.7	1025.2	1155.9	1243.0	1161.9	1029.8	996.9	1080.9	1078.9	1061.4
47.5°	957.9	1072.7	1285.2	1418.3	1294.6	1055.6	992.6	1177.4	1193.7	1167.2
50°	943.6	1120.3	1436.2	1633.0	1457.5	1082.9	986.2	1284.4	1311.3	1290.8
52.5°	958.1	1173.4	1614.7	1855.0	1661.8	1126.6	1029.6	1421.7	1416.9	1392.2
55°	1003.9	1236.1	1831.7	2133.9	1886.2	1200.3	1141.2	1552.6	1503.6	1474.0
57.5°	1001.7	1281.0	2021.9	2354.4	2081.4	1260.9	1180.0	1566.5	1467.4	1430.0
60°	909.2	1260.5	2094.3	2494.0	2140.3	1227.5	1052.4	1399.2	1238.1	1198.9
62.5°	678.6	1118.5	1953.9	2319.3	1973.6	1060.2	791.4	1004.3	889.7	823.6
65°	434.1	875.0	1642.7	1878.9	1626.8	810.9	471.3	538.4	421.8	402.9
67.5°	184.8	617.7	1277.0	1255.8	1217.0	525.4	182.0	151.6	113.0	111.0
70°	61.1	420.2	787.2	837.6	726.8	361.9	60.1	50.9	50.7	48.9
72.5°	40.0	225.6	443.1	493.4	467.7	208.3	36.4	34.0	34.8	34.0
75°	23.9	49.1	74.6	96.9	74.6	35.0	21.9	21.5	21.9	20.9
77.5°	14.1	13.7	13.3	13.3	13.1	12.1	11.1	10.7	10.9	11.1
80°	9.0	8.6	8.2	8.0	7.0	6.6	6.2	5.8	5.8	6.0
82.5°	5.8	5.4	5.0	4.4	3.6	3.0	2.8	2.4	2.4	2.6
85°	3.0	2.4	1.8	1.4	0.8	0.4	0.0	0.0	0.0	0.0
87.5°	0.6	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

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