

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: P628969

Luminaire Tested: GWS-SA1A-760-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628969  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-760-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

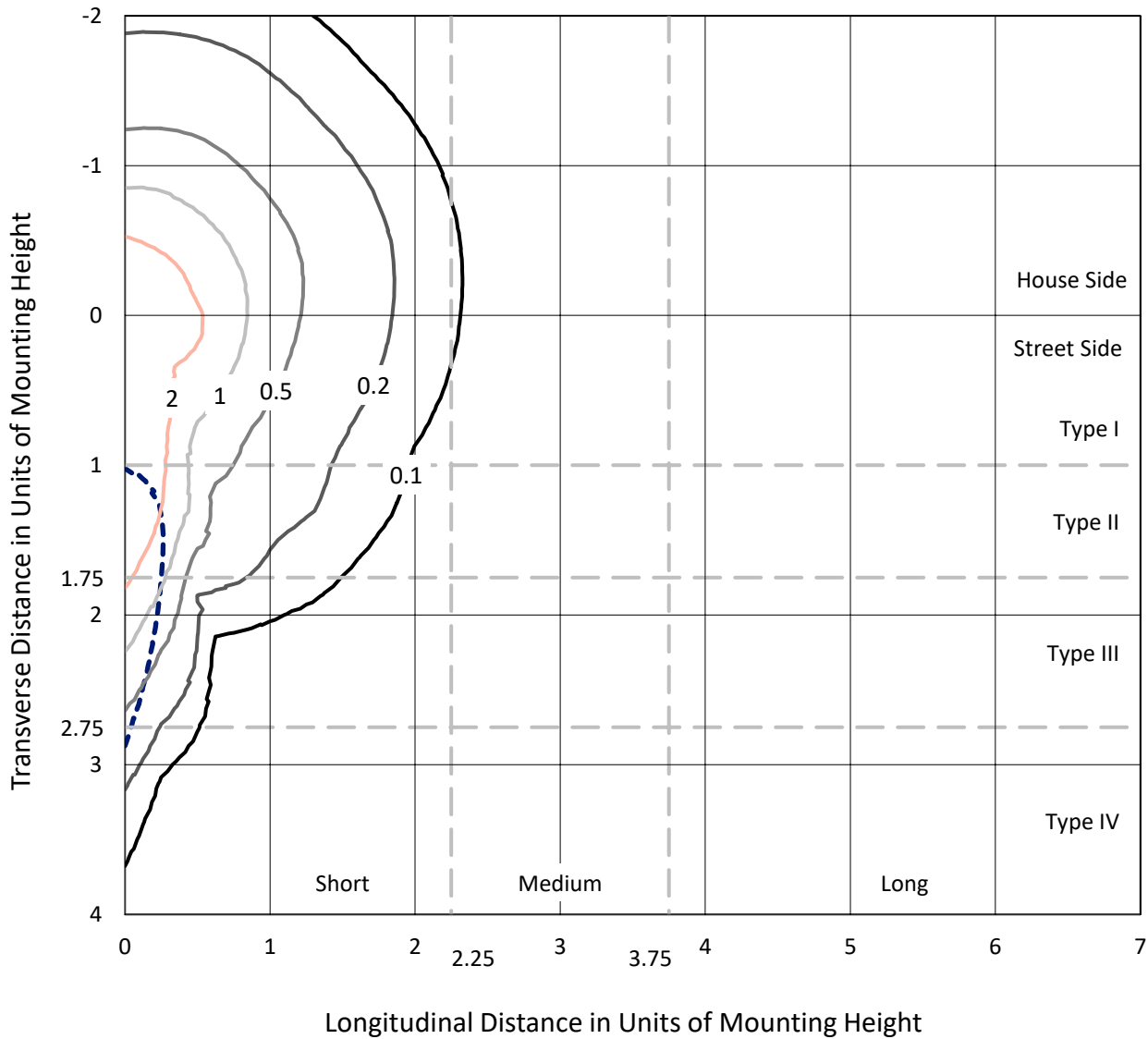
Lumens per Lamp: N/A  
Luminaire Lumens: 2689 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

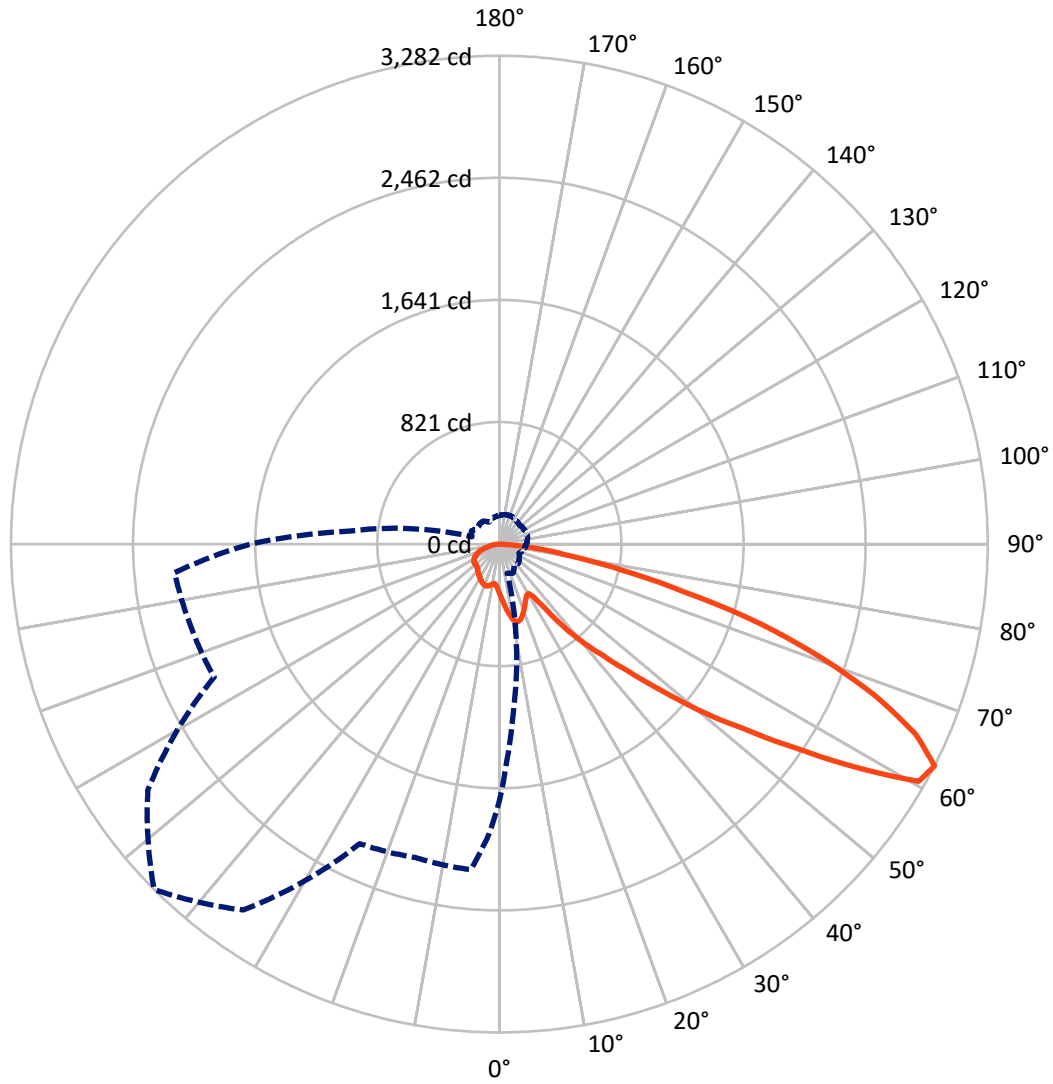
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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	642.9	0.0	642.9
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2046.1	0.0	2046.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	2689.0	0.0	2689.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.0	1.2
10°-20°	107.3	4.0
20°-30°	169.0	6.3
30°-40°	231.6	8.6
40°-50°	361.4	13.4
50°-60°	623.1	23.2
60°-70°	722.1	26.9
70°-80°	381.2	14.2
80°-90°	60.2	2.2
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°	2689.0	100.0
0°-180°	2689.0	100.0

**Coefficient of Utilization**



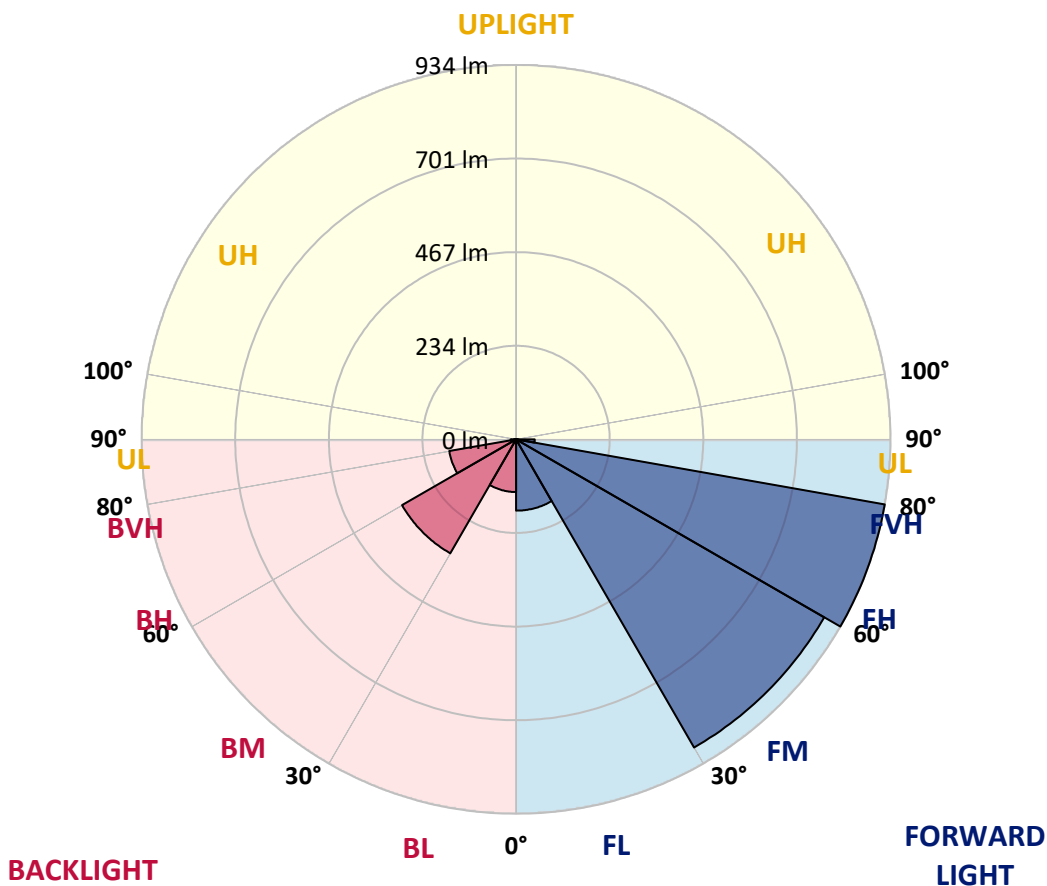
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.8	6.6			
FM (30°-60°)	887.7	33.0			
FH (60°-80°)	934.0	34.7			G1/1800
FVH (80°-90°)	46.5	1.7			G1/100
BL (0°-30°)	131.5	4.9	B1/500		
BM (30°-60°)	328.4	12.2	B1/1000		
BH (60°-80°)	169.3	6.3	B1/500		G1/500
BVH (80°-90°)	13.7	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°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3
2.5°	364.3	362.8	360.8	353.8	349.5	344.5	339.4	333.4	326.6	321.9	317.2
5°	395.1	392.9	387.9	371.3	359.7	347.2	336.7	324.8	313.0	305.0	297.0
7.5°	424.7	421.9	414.2	388.7	370.0	351.9	336.1	318.8	301.3	289.4	279.9
10°	454.4	448.4	438.7	405.4	380.7	359.7	341.6	320.5	297.2	281.0	270.9
12.5°	477.0	471.4	460.9	420.6	391.4	365.1	344.7	325.2	305.4	288.2	277.9
15°	498.2	491.0	479.0	434.8	400.3	364.9	338.6	321.5	318.6	314.3	300.9
17.5°	513.4	506.8	494.5	446.3	405.2	358.5	321.5	311.4	324.4	337.5	324.8
20°	526.8	519.1	506.6	454.4	406.2	344.3	300.7	300.9	321.3	339.4	336.3
22.5°	538.1	529.6	518.5	463.4	405.8	324.6	282.6	294.9	315.3	329.5	329.9
25°	552.1	545.1	535.8	476.8	405.8	304.4	269.4	287.7	305.2	317.2	316.8
27.5°	569.1	564.4	556.8	497.1	409.5	287.5	262.0	278.5	292.3	302.6	302.4
30°	588.3	583.9	578.2	518.7	415.9	275.0	257.9	267.0	277.1	285.3	285.3
32.5°	607.8	606.1	600.0	536.0	411.0	271.1	254.4	255.5	260.8	267.6	267.0
35°	634.9	633.3	625.5	549.4	389.6	265.5	248.9	243.7	244.4	248.7	250.1
37.5°	674.6	672.2	660.7	565.0	357.3	251.5	239.8	231.4	229.5	231.4	234.1
40°	722.6	718.9	703.2	586.2	320.0	232.6	225.6	218.6	215.6	216.2	219.3
42.5°	782.6	774.8	752.4	608.6	283.2	216.0	209.8	205.5	202.0	201.6	207.5
45°	880.1	858.7	823.1	628.6	252.2	207.1	195.6	192.5	189.6	191.3	198.3
47.5°	1050.4	1010.9	941.6	645.6	233.2	207.3	184.3	181.0	180.8	184.1	191.9
50°	1284.5	1227.5	1120.6	657.2	223.4	209.8	177.5	172.2	176.1	179.4	186.8
52.5°	1508.7	1421.7	1294.4	657.0	219.1	210.2	179.4	163.9	176.1	176.9	183.9
55°	1700.2	1542.6	1341.3	589.5	212.9	208.6	186.6	157.6	173.8	176.9	182.4
57.5°	1852.4	1619.5	1337.8	476.2	231.6	199.5	190.9	156.1	167.2	177.3	183.7
60°	1835.5	1584.4	1251.6	292.3	229.7	183.5	190.3	158.8	156.1	171.7	182.2
62.5°	1723.4	1458.3	1103.3	202.8	215.8	174.2	180.2	163.5	145.8	163.7	175.2
65°	1566.5	1295.6	919.4	155.5	178.7	174.6	163.1	160.2	136.8	151.0	163.3
67.5°	1358.9	1093.8	725.9	123.2	124.6	151.2	148.1	142.3	128.3	139.7	150.8
70°	1021.6	798.3	499.4	99.1	94.4	126.3	133.1	127.9	120.1	123.4	135.1
72.5°	719.9	521.2	273.6	78.6	72.8	97.1	115.6	114.8	106.1	108.6	120.1
75°	535.0	368.8	170.9	62.1	59.2	69.5	96.9	99.3	92.1	95.0	103.9
77.5°	356.0	238.8	95.0	46.1	46.1	50.8	72.2	83.7	78.4	80.6	86.8
80°	196.4	121.6	47.5	30.2	31.1	35.0	52.7	60.3	60.5	66.0	67.7
82.5°	62.1	38.7	21.2	17.7	16.7	20.0	33.9	43.2	40.3	51.4	47.3
85°	14.2	9.1	3.9	3.9	4.3	6.6	13.0	23.0	29.4	35.4	25.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	9.1	13.4	11.9
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°	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3
2.5°	314.3	310.2	308.9	305.4	305.0	301.7	300.5	300.5	301.9	301.9	303.4
5°	293.7	288.6	285.7	281.6	280.6	278.1	276.4	276.6	278.5	279.7	282.2
7.5°	275.6	272.1	270.1	268.2	267.8	267.4	265.5	265.3	265.9	267.8	269.6
10°	268.0	265.5	266.2	267.6	269.9	271.1	269.4	268.6	268.0	269.2	270.9
12.5°	275.4	272.9	274.2	276.6	279.7	281.0	280.3	280.1	280.8	285.5	289.0
15°	291.7	286.9	285.3	286.3	288.8	290.0	289.4	290.2	294.1	306.5	315.3
17.5°	311.8	300.3	293.7	291.9	292.9	293.9	293.9	296.0	302.8	320.9	332.0
20°	322.7	307.7	296.6	292.1	292.5	293.5	293.5	296.4	304.0	323.3	330.5
22.5°	319.8	306.1	292.5	287.5	287.7	288.6	288.6	291.0	297.8	314.9	318.2
25°	308.5	296.4	283.0	278.7	279.1	280.6	280.1	281.6	286.7	300.7	302.6
27.5°	294.9	284.3	271.1	267.8	269.6	272.5	270.1	270.3	275.0	286.7	286.9
30°	280.3	271.5	259.8	257.3	260.8	262.2	260.0	260.0	264.7	272.7	272.5
32.5°	264.5	259.0	250.5	247.8	251.8	254.0	251.1	251.5	255.3	260.6	258.5
35°	249.7	246.8	242.9	241.1	243.5	245.6	243.7	244.6	248.1	249.5	246.6
37.5°	235.5	235.1	235.5	235.5	236.1	236.7	235.5	237.6	240.6	238.8	235.5
40°	223.2	224.8	228.7	227.7	227.1	227.7	226.9	230.4	233.4	230.2	226.3
42.5°	212.9	216.0	221.9	221.9	220.7	221.1	220.7	225.0	227.3	222.8	218.4
45°	204.0	208.6	216.2	217.2	215.1	215.1	216.0	221.3	222.1	216.0	211.4
47.5°	197.9	203.4	212.1	213.9	210.8	210.6	212.9	218.6	218.6	211.4	206.3
50°	193.5	199.7	210.0	212.5	209.4	208.6	212.3	217.8	216.6	207.9	202.8
52.5°	190.7	197.0	209.8	213.3	211.2	210.4	214.1	218.0	214.9	205.7	200.3
55°	188.8	195.8	210.4	213.3	211.0	209.6	213.3	216.8	215.1	204.4	199.3
57.5°	189.8	196.8	209.6	211.0	208.4	205.9	210.2	215.1	214.5	204.9	199.7
60°	188.2	194.6	205.1	205.5	201.0	197.0	203.4	210.8	210.8	203.4	198.9
62.5°	180.6	187.0	196.2	196.6	191.5	187.2	194.6	203.4	203.2	197.2	192.5
65°	168.0	174.0	184.5	185.5	180.4	175.9	183.5	191.7	192.3	187.0	182.9
67.5°	154.3	159.6	167.4	171.5	167.2	162.5	169.5	177.3	177.1	170.7	166.4
70°	137.8	142.7	149.9	153.4	150.8	146.2	152.6	156.7	154.9	151.8	148.9
72.5°	121.6	126.3	133.1	133.1	130.2	125.9	127.7	135.1	137.4	135.1	133.3
75°	104.5	108.6	113.3	114.4	108.0	100.2	108.8	115.2	117.9	116.8	114.6
77.5°	87.0	90.1	97.1	95.2	83.3	79.2	86.2	95.6	97.5	96.9	93.8
80°	67.1	68.9	76.3	72.6	63.4	60.7	63.8	71.2	71.6	69.5	65.6
82.5°	45.0	47.5	52.4	45.3	45.0	42.6	40.1	40.9	44.6	44.2	41.5
85°	23.0	24.3	29.0	27.2	23.2	20.2	19.1	20.4	18.3	16.7	14.4
87.5°	9.7	10.5	14.4	8.0	2.5	0.0	0.0	1.2	1.9	2.7	2.9
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°	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3
2.5°	306.7	308.9	314.5	321.5	328.3	335.3	342.9	347.6	353.4	360.8	361.0
5°	285.3	290.4	298.4	309.1	320.2	333.0	347.8	360.2	375.0	386.7	391.4
7.5°	272.1	279.5	289.6	303.2	317.8	333.6	353.0	373.7	398.0	413.6	422.9
10°	273.4	284.7	294.7	306.3	319.4	336.5	361.4	388.9	418.8	439.3	450.9
12.5°	295.4	307.3	305.4	304.8	313.7	334.4	368.2	404.4	440.8	461.3	475.1
15°	323.1	327.7	310.2	297.0	302.4	327.0	371.9	418.2	459.1	484.2	497.8
17.5°	337.3	328.3	307.1	287.3	285.9	315.7	373.7	432.1	479.7	504.7	519.1
20°	330.7	317.6	299.7	281.0	270.7	300.3	372.7	443.2	498.4	526.3	538.1
22.5°	316.5	305.0	291.0	273.1	258.3	283.4	370.0	454.4	515.0	543.2	553.5
25°	301.1	292.5	281.0	265.3	251.3	268.6	368.2	469.2	534.2	561.1	567.7
27.5°	285.7	279.3	269.9	257.7	249.7	258.3	368.8	488.5	558.8	584.3	581.7
30°	270.5	264.9	258.3	253.0	249.5	255.9	367.1	509.1	586.0	609.6	593.8
32.5°	256.1	250.9	246.8	247.6	249.7	256.9	358.7	527.8	610.9	631.0	607.0
35°	243.7	238.4	238.4	241.3	248.9	253.4	336.9	542.4	638.4	658.6	625.7
37.5°	232.2	227.5	230.6	235.3	242.5	243.9	308.9	556.6	678.5	697.5	654.7
40°	222.1	217.4	223.0	228.9	232.6	232.0	280.6	576.3	725.9	745.4	693.2
42.5°	214.1	209.8	214.7	222.3	223.0	223.6	259.8	595.2	780.8	805.7	759.4
45°	207.5	204.4	206.9	214.5	214.5	224.0	246.8	611.1	863.5	907.5	880.9
47.5°	202.4	200.5	201.8	204.2	208.4	231.4	238.6	623.2	1014.0	1100.4	1073.7
50°	199.5	197.7	199.3	194.2	206.5	235.1	235.9	632.5	1212.5	1347.8	1314.7
52.5°	197.0	196.4	197.5	185.5	210.6	232.6	233.9	620.1	1345.6	1591.4	1624.1
55°	196.2	196.6	191.7	179.1	215.6	224.4	227.7	531.9	1381.8	1801.4	2004.4
57.5°	196.6	195.4	182.9	179.8	215.8	207.9	236.5	379.5	1329.1	1892.7	2376.5
60°	195.2	189.0	172.2	185.3	206.3	188.6	230.2	247.4	1190.3	1822.6	2398.1
62.5°	188.8	179.8	162.9	188.4	189.4	177.1	209.0	190.7	1005.2	1672.4	2189.9
65°	179.6	167.4	155.1	182.0	172.4	171.7	157.1	152.8	808.3	1493.7	1992.4
67.5°	164.3	152.2	149.3	167.4	155.1	152.2	126.3	126.7	645.0	1303.2	1794.0
70°	147.1	134.9	137.2	151.4	138.0	126.5	102.2	105.5	489.3	1085.8	1526.4
72.5°	135.8	119.5	119.7	133.3	121.4	102.4	84.1	87.0	310.6	818.4	1213.5
75°	114.6	105.3	100.8	108.0	103.0	79.8	70.8	70.1	184.1	586.6	908.7
77.5°	95.6	88.4	86.2	89.1	76.9	59.0	57.0	55.9	104.3	375.8	595.5
80°	69.3	67.5	67.3	68.7	59.2	43.4	43.4	43.6	56.2	204.0	335.7
82.5°	44.0	48.1	42.6	47.3	40.3	30.9	28.8	32.7	32.3	87.0	141.5
85°	18.3	25.1	23.4	24.9	19.1	16.9	18.1	19.5	18.7	33.5	55.1
87.5°	3.5	4.1	4.5	4.3	4.3	5.3	6.0	7.2	7.2	9.7	16.7
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°	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3
2.5°	368.8	374.8	373.5	376.2	372.7	373.9	366.9	365.1	363.9	364.3
5°	406.6	418.8	421.0	425.6	422.5	422.5	410.1	400.9	397.6	395.1
7.5°	445.1	462.6	474.1	475.3	473.7	470.4	452.5	435.8	429.9	424.7
10°	479.2	500.2	513.2	519.3	516.3	511.1	488.9	466.1	458.9	454.4
12.5°	505.4	523.9	532.5	536.6	536.2	534.4	516.3	491.6	484.0	477.0
15°	522.2	531.5	528.2	528.0	530.9	538.3	532.7	513.4	504.5	498.2
17.5°	533.1	524.3	509.7	502.9	509.1	526.5	539.3	528.4	520.4	513.4
20°	537.0	505.6	484.4	471.8	479.0	504.3	535.8	539.3	532.5	526.8
22.5°	532.5	482.7	453.9	439.1	446.1	476.4	525.5	548.1	543.6	538.1
25°	521.4	458.9	424.3	411.0	418.6	449.4	507.2	556.4	556.6	552.1
27.5°	507.6	436.9	403.5	391.0	398.4	427.2	489.3	563.6	570.8	569.1
30°	493.6	423.7	393.7	384.8	390.4	415.9	471.0	571.0	585.4	588.3
32.5°	487.3	430.1	416.9	420.8	413.6	422.5	464.4	581.5	603.1	607.8
35°	495.7	486.6	520.0	535.4	509.9	476.4	472.9	597.3	627.9	634.9
37.5°	536.6	607.8	657.6	711.9	667.6	593.8	514.6	624.2	663.5	674.6
40°	625.7	713.5	803.4	873.5	806.7	707.3	594.0	664.4	712.5	722.6
42.5°	709.6	812.7	936.5	1027.2	940.4	800.1	679.6	731.8	777.1	782.6
45°	791.9	909.9	1097.5	1223.6	1105.7	888.3	767.0	845.8	879.9	880.1
47.5°	888.3	1019.6	1299.5	1479.1	1325.2	986.0	849.1	1026.2	1073.7	1050.4
50°	1003.7	1128.6	1507.4	1776.3	1592.8	1106.2	953.3	1246.0	1310.8	1284.5
52.5°	1158.2	1248.7	1736.6	2066.1	1884.5	1242.9	1104.5	1536.4	1557.8	1508.7
55°	1375.6	1422.1	2030.7	2424.0	2210.1	1411.4	1325.6	1900.9	1841.1	1700.2
57.5°	1870.7	1696.5	2408.3	2832.2	2578.4	1717.4	1810.2	2302.8	2089.9	1852.4
60°	2284.9	2029.7	2757.8	3237.4	2894.2	2054.8	2265.2	2372.8	2080.7	1835.5
62.5°	2145.3	2114.6	2883.9	3282.1	3001.9	2220.8	2180.6	2196.5	1944.9	1723.4
65°	1882.2	1950.7	2771.4	3070.4	2882.4	2072.0	1972.5	2033.6	1789.6	1566.5
67.5°	1726.9	1777.3	2571.2	2731.7	2665.2	1911.2	1810.6	1766.4	1548.6	1358.9
70°	1568.1	1609.9	2290.3	2306.5	2326.5	1643.8	1480.5	1348.9	1154.3	1021.6
72.5°	1355.0	1357.3	1935.1	1840.9	1878.7	1286.3	1191.7	1008.5	840.2	719.9
75°	1136.8	1074.7	1531.7	1286.8	1362.6	1000.6	989.5	760.0	633.7	535.0
77.5°	866.7	794.1	1118.9	846.2	957.0	666.4	744.0	515.4	445.9	356.0
80°	581.9	536.6	618.3	477.6	626.1	459.3	485.2	292.1	253.2	196.4
82.5°	306.9	262.0	382.2	283.2	377.6	252.4	182.0	90.3	76.9	62.1
85°	118.9	137.6	187.4	100.8	146.4	90.1	52.7	22.4	18.7	14.2
87.5°	23.0	35.6	19.5	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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