

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: P628968

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628968  
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-SA1A-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

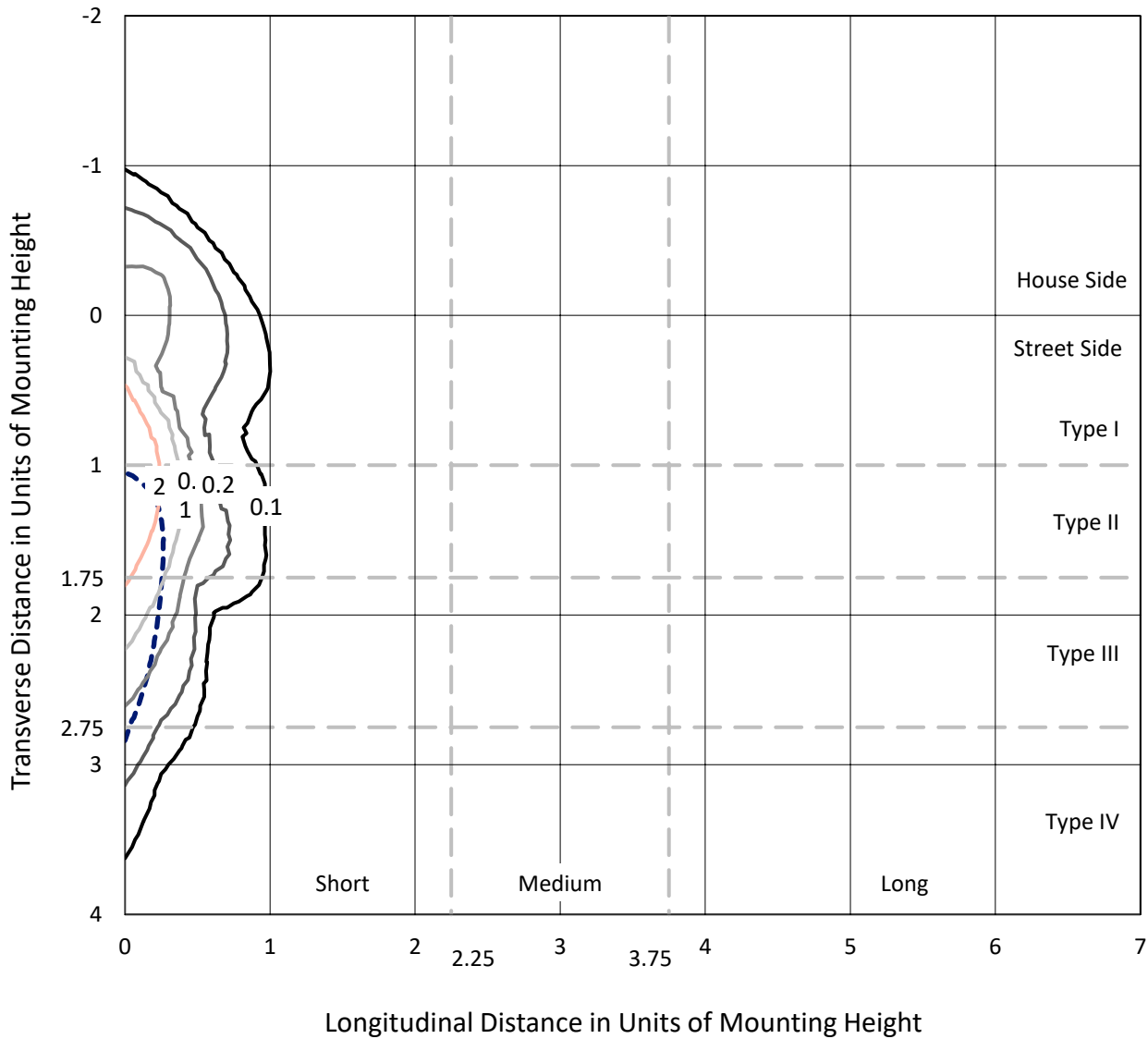
Lumens per Lamp: N/A  
Luminaire Lumens: 1737.1 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

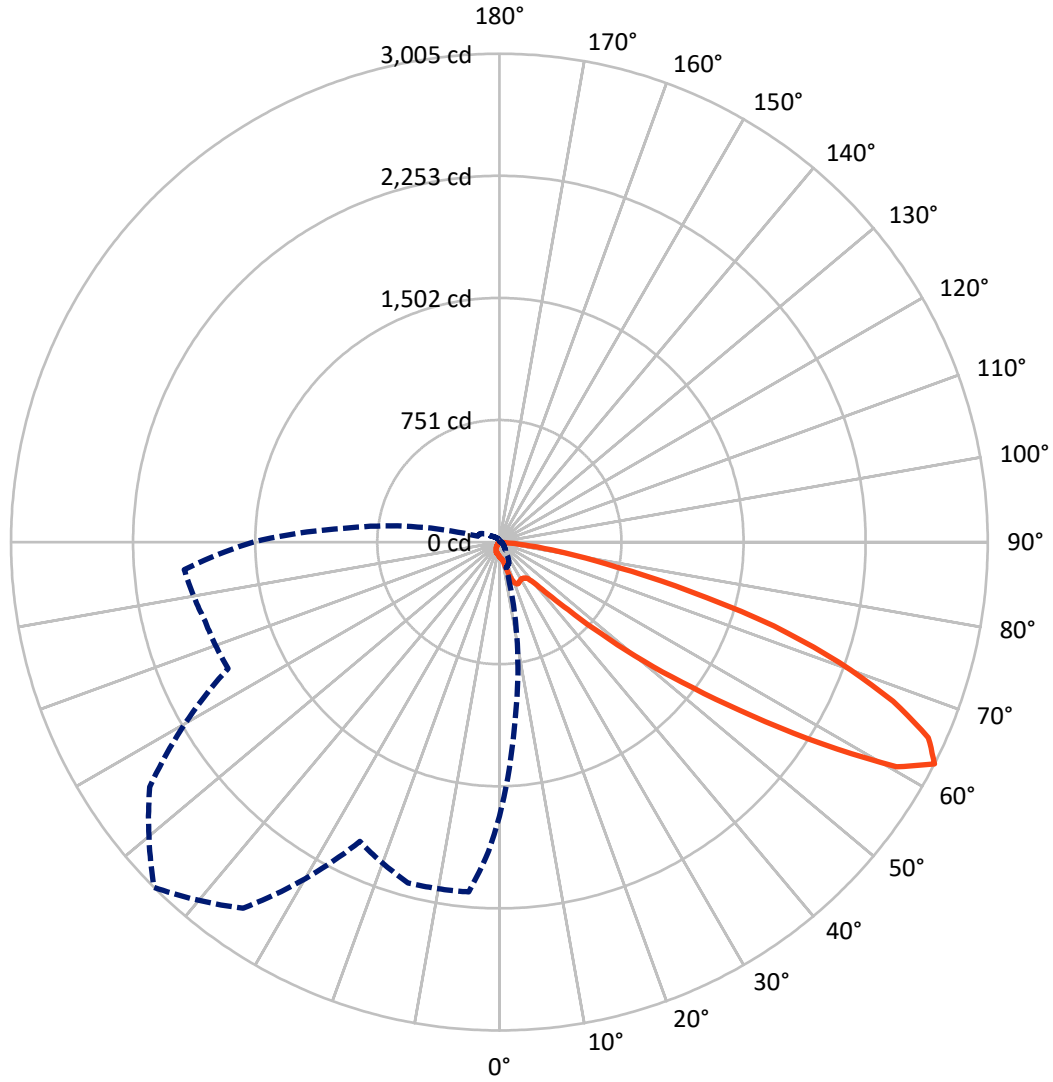
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 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	201.8	0.0	201.8
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	1535.3	0.0	1535.3
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	1737.1	0.0	1737.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.8	0.4
10°-20°	26.7	1.5
20°-30°	60.2	3.5
30°-40°	103.8	6.0
40°-50°	195.8	11.3
50°-60°	437.1	25.2
60°-70°	584.6	33.7
70°-80°	293.1	16.9
80°-90°	28.1	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°	1737.1	100.0
0°-180°	1737.1	100.0

**Coefficient of Utilization**



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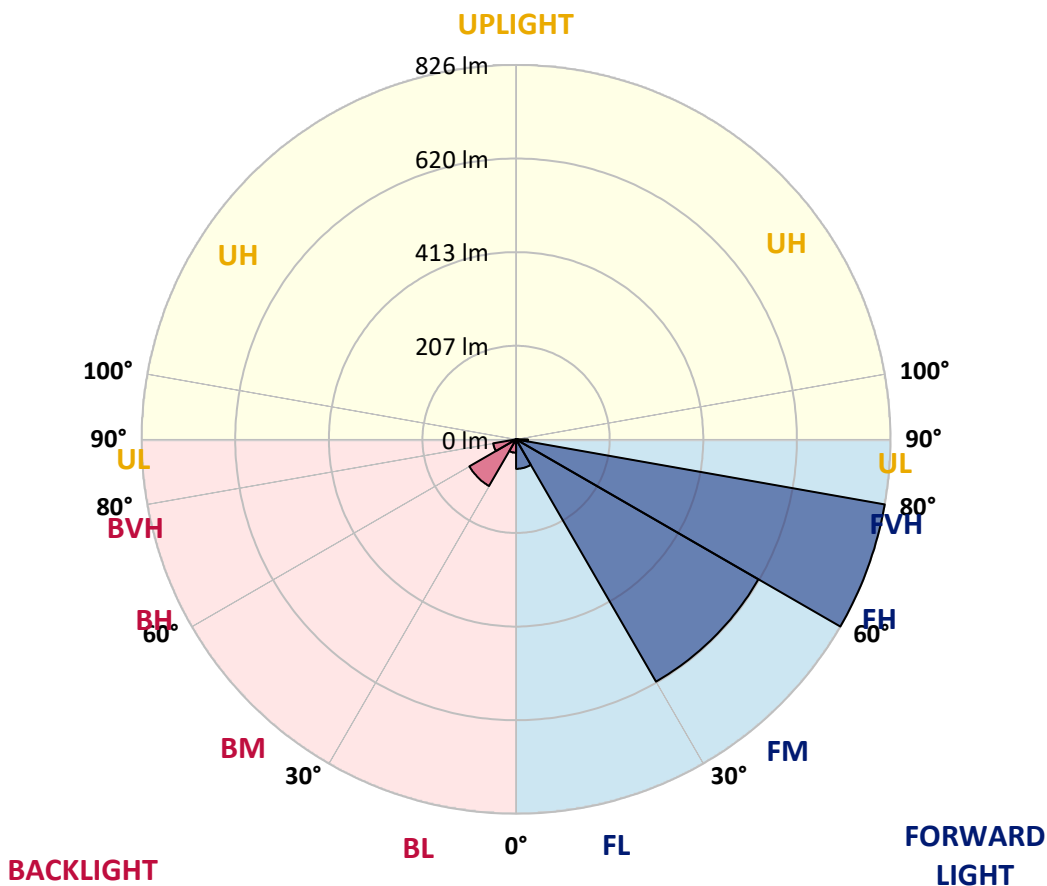
CATALOG NUMBER: GWS-SA1A-760-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	65.1	3.7			
FM (30°-60°)	617.6	35.6			
FH (60°-80°)	826.4	47.6			G1/1800
FVH (80°-90°)	26.2	1.5			G1/100
BL (0°-30°)	29.6	1.7	B0/110		
BM (30°-60°)	119.0	6.9	B0/220		
BH (60°-80°)	51.3	3.0	B0/110		G0/110
BVH (80°-90°)	1.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2.5°	89.1	88.9	88.4	87.2	86.2	85.6	84.3	84.3	84.1	83.7	82.9
5°	86.2	85.4	84.5	82.3	79.8	78.4	76.7	76.5	76.5	76.1	75.9
7.5°	81.7	80.8	79.8	76.1	73.8	72.4	71.0	70.8	70.1	70.1	70.1
10°	79.2	78.0	76.3	72.2	69.9	68.7	67.7	67.1	66.6	66.0	65.8
12.5°	84.5	82.3	78.8	71.4	68.3	66.6	65.4	65.0	63.8	62.9	62.3
15°	101.2	95.6	88.6	73.2	67.7	65.2	63.6	62.7	61.7	60.3	59.2
17.5°	128.6	120.5	108.8	79.2	67.1	64.0	61.9	60.5	59.0	57.4	56.2
20°	166.4	154.5	140.5	90.1	67.1	62.5	60.1	58.2	56.2	54.3	52.9
22.5°	214.5	202.6	178.7	108.6	67.9	60.7	57.8	55.3	52.9	51.2	49.6
25°	268.4	251.5	229.3	131.0	70.1	58.2	55.1	52.7	50.4	48.3	46.5
27.5°	328.5	310.2	280.5	162.9	75.1	55.7	52.2	50.0	47.9	45.9	43.4
30°	383.8	372.9	342.7	201.2	83.1	54.1	50.0	47.9	45.9	43.2	40.9
32.5°	450.2	430.9	406.0	244.8	93.8	52.4	48.1	45.2	43.6	41.1	38.7
35°	517.1	500.6	467.9	298.4	105.7	50.8	45.9	43.2	41.8	38.9	36.2
37.5°	586.0	582.3	550.0	357.9	117.4	49.0	43.2	41.5	40.1	36.8	33.7
40°	653.9	647.1	617.3	425.8	124.6	46.9	40.9	39.9	38.3	34.6	31.1
42.5°	718.9	713.7	684.7	490.8	123.6	45.0	38.7	37.4	36.2	32.5	28.2
45°	798.7	790.2	753.6	538.9	113.1	47.1	36.4	34.3	34.1	30.6	25.3
47.5°	948.0	920.2	858.1	575.9	102.6	52.4	33.9	31.5	32.9	28.8	22.4
50°	1157.2	1124.5	1034.6	604.7	102.4	59.4	33.5	28.8	31.9	27.4	20.0
52.5°	1367.4	1309.8	1200.6	620.1	110.0	64.6	37.2	26.1	30.6	25.9	18.1
55°	1568.7	1449.2	1270.1	569.1	116.0	70.1	44.0	24.7	28.4	24.3	17.1
57.5°	1760.6	1561.3	1300.3	450.2	136.0	72.4	48.1	25.3	25.1	22.2	16.2
60°	1787.0	1556.0	1239.2	261.8	149.9	68.5	46.5	28.2	22.0	19.7	14.8
62.5°	1687.4	1452.5	1100.0	163.3	139.2	67.1	41.3	32.1	20.0	17.5	13.0
65°	1536.2	1290.2	917.1	105.3	105.5	74.5	36.2	31.5	18.7	15.4	11.1
67.5°	1299.9	1079.8	722.6	70.5	59.6	63.6	31.7	21.6	18.3	13.2	8.6
70°	948.8	768.6	470.4	47.1	35.6	50.8	26.5	15.4	17.3	10.9	6.2
72.5°	693.6	516.5	262.7	30.9	20.2	29.6	19.5	11.1	13.4	8.0	4.3
75°	499.2	355.4	149.9	19.7	13.4	16.2	12.8	7.6	8.6	6.4	3.9
77.5°	240.2	173.2	68.1	10.9	9.0	8.2	6.8	4.7	5.3	5.8	3.5
80°	9.0	6.8	5.1	5.3	5.8	3.7	3.1	2.5	3.1	3.9	1.9
82.5°	0.0	0.0	0.0	0.6	0.8	1.0	1.2	1.0	1.2	1.4	0.2
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°	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2.5°	83.5	83.1	83.5	83.9	84.3	84.7	84.1	84.5	84.9	83.9	84.3
5°	76.9	76.7	78.0	78.6	79.4	79.8	79.4	79.4	79.2	78.0	78.0
7.5°	71.2	71.4	72.4	73.8	74.9	75.5	75.1	74.9	74.3	72.4	72.4
10°	66.8	66.8	68.5	69.7	71.2	71.8	71.4	70.8	70.1	68.3	68.1
12.5°	63.3	63.3	64.6	66.6	68.3	69.1	68.9	68.1	67.1	65.2	65.0
15°	60.1	59.9	61.7	63.6	65.8	66.8	66.4	65.8	64.0	62.3	61.9
17.5°	56.8	56.6	58.2	60.7	63.1	64.6	64.4	62.9	61.3	59.2	58.8
20°	53.5	53.1	55.1	57.6	60.1	61.5	61.1	59.9	57.8	55.7	55.3
22.5°	50.2	50.0	51.4	53.5	55.7	57.0	56.8	55.7	53.7	51.8	51.8
25°	46.5	46.5	47.5	49.0	50.6	51.2	51.4	51.0	49.8	48.7	48.7
27.5°	43.4	42.8	43.2	43.6	44.4	45.5	45.5	45.9	46.1	45.7	45.9
30°	40.9	39.9	39.3	38.5	38.1	38.5	38.9	40.3	41.8	42.6	43.0
32.5°	38.1	36.8	35.2	32.9	31.5	31.1	32.3	35.0	37.6	39.5	40.5
35°	35.2	33.5	30.4	27.1	25.3	24.7	26.1	29.2	33.1	36.4	37.8
37.5°	32.3	30.0	25.7	21.8	19.7	19.3	20.8	24.1	28.6	33.1	35.0
40°	29.0	26.3	21.2	17.1	15.4	15.0	16.2	19.5	24.3	29.4	32.3
42.5°	25.7	22.4	17.1	13.6	11.9	11.9	13.6	16.0	20.4	25.9	29.4
45°	22.4	18.9	14.0	10.9	9.9	10.1	11.1	13.6	17.1	22.8	26.1
47.5°	19.3	16.2	11.5	9.0	8.2	8.4	9.7	11.7	14.6	19.7	23.2
50°	16.7	13.8	10.1	7.6	7.0	7.4	8.6	10.5	13.0	17.5	20.4
52.5°	15.0	12.3	9.3	6.6	6.2	6.6	7.8	9.5	11.7	15.4	18.3
55°	14.2	12.1	9.3	6.0	5.3	5.8	7.0	8.6	10.5	14.0	16.5
57.5°	14.0	12.5	9.9	5.3	4.5	4.9	6.2	7.8	9.7	12.8	14.8
60°	13.2	11.9	9.7	4.3	3.5	4.1	5.1	6.8	8.8	11.9	13.8
62.5°	11.5	10.5	8.4	3.5	2.7	3.1	4.3	6.0	8.0	10.9	13.0
65°	9.5	8.4	6.6	2.3	1.6	2.1	3.3	5.1	7.0	9.9	11.7
67.5°	7.0	6.0	4.5	1.4	0.8	1.4	2.7	4.3	6.4	8.8	10.7
70°	4.3	3.5	2.5	0.8	0.6	1.2	2.5	4.1	5.8	8.2	10.1
72.5°	2.5	1.6	1.0	0.4	0.6	1.2	2.5	4.1	5.6	7.8	9.5
75°	1.9	1.0	0.4	0.2	0.4	1.0	2.3	3.7	5.3	7.4	9.0
77.5°	1.2	0.6	0.2	0.0	0.2	0.8	2.1	3.5	4.9	7.0	8.6
80°	0.2	0.0	0.0	0.0	0.0	0.6	1.9	3.1	4.5	6.2	7.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	1.4	2.7	3.9	5.1	6.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1	3.1	3.9	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	2.5	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°	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2.5°	84.1	85.4	85.4	86.2	87.2	89.1	90.1	91.5	92.6	93.6	94.0
5°	77.7	78.0	78.2	78.6	79.8	81.9	83.7	86.0	88.6	90.7	91.9
7.5°	72.4	72.4	72.4	73.0	74.3	75.7	77.5	80.6	83.7	86.2	88.2
10°	67.9	68.5	68.7	69.7	71.2	73.0	75.1	77.7	81.2	84.5	88.2
12.5°	65.0	65.6	66.6	67.7	69.1	71.2	73.4	76.9	84.1	90.9	98.7
15°	62.3	63.1	64.4	65.8	67.5	69.7	72.2	79.4	96.3	109.0	121.4
17.5°	59.4	60.7	62.3	63.8	65.8	68.3	71.4	85.4	118.5	139.7	160.6
20°	55.7	57.4	59.2	61.5	64.0	66.8	71.4	97.7	150.6	181.0	208.8
22.5°	52.2	53.9	56.2	59.0	61.9	64.8	72.4	116.4	191.9	230.4	265.5
25°	49.4	51.4	53.7	56.2	59.4	62.7	74.9	142.7	241.7	291.2	316.1
27.5°	46.7	49.2	51.4	53.5	56.4	60.1	80.4	177.9	300.5	350.9	370.4
30°	44.0	46.9	49.2	51.2	54.1	58.0	88.9	222.8	365.9	414.9	416.9
32.5°	41.8	44.4	47.1	49.2	51.8	56.4	100.6	275.2	433.0	480.3	460.9
35°	39.3	42.4	44.8	47.1	50.0	54.9	114.2	331.8	500.6	540.3	504.7
37.5°	36.8	40.3	43.4	45.0	47.9	53.5	124.0	390.8	569.7	598.9	543.2
40°	34.6	38.5	42.0	43.6	45.0	51.6	125.5	451.3	639.9	656.7	579.4
42.5°	32.1	36.4	39.5	41.8	43.0	50.4	116.8	502.3	698.7	714.3	626.7
45°	29.4	34.6	37.0	38.7	41.1	51.2	105.7	541.8	766.0	792.9	704.7
47.5°	26.7	32.5	34.6	35.8	39.1	56.2	101.6	568.1	876.8	932.8	836.1
50°	24.3	30.6	32.9	32.7	38.7	62.5	106.1	588.0	1043.4	1109.2	1016.3
52.5°	21.6	28.6	31.3	30.4	41.8	67.5	115.2	603.9	1171.6	1316.2	1258.4
55°	19.3	26.3	28.8	28.6	47.5	71.2	122.2	520.4	1224.6	1508.5	1531.1
57.5°	17.7	23.9	25.9	29.4	51.2	71.2	141.3	369.4	1225.7	1650.0	1893.1
60°	16.2	21.6	23.0	32.3	49.8	67.5	139.9	226.2	1129.6	1640.3	2085.6
62.5°	15.0	19.5	21.4	33.1	44.0	66.8	126.3	140.3	963.4	1515.5	1946.0
65°	14.0	17.9	20.6	30.4	39.9	71.6	85.2	100.8	781.4	1373.1	1785.7
67.5°	13.0	16.5	21.8	24.9	36.2	64.0	61.5	71.6	613.3	1217.0	1638.7
70°	12.1	15.6	23.0	20.4	31.7	50.0	43.6	54.3	469.6	1015.4	1431.5
72.5°	11.5	14.6	19.3	16.0	25.7	38.7	30.4	39.5	306.9	792.7	1167.0
75°	10.9	13.4	14.2	13.0	19.1	25.3	23.0	26.5	182.9	579.4	885.5
77.5°	10.7	12.5	11.5	10.5	13.0	15.0	17.5	17.9	89.3	289.8	464.0
80°	9.5	11.3	9.9	8.6	8.8	9.9	13.0	11.9	20.4	73.6	123.8
82.5°	7.4	8.8	8.2	7.2	7.2	7.2	8.6	8.0	6.6	33.1	55.9
85°	5.1	6.2	6.2	5.8	5.6	5.6	5.3	5.1	1.9	2.1	3.1
87.5°	3.5	4.3	4.5	4.3	3.7	3.3	2.9	2.5	0.8	0.0	0.4
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2.5°	95.4	96.1	96.1	95.2	94.6	93.0	91.3	89.7	89.3	89.1
5°	95.4	97.9	99.1	98.9	97.5	94.8	91.3	87.6	86.6	86.2
7.5°	94.0	98.7	102.4	103.0	100.4	95.6	89.3	83.7	82.3	81.7
10°	97.3	106.5	113.9	115.0	111.9	102.6	92.4	82.9	80.6	79.2
12.5°	115.0	130.2	139.2	143.6	137.6	125.9	108.8	91.9	86.8	84.5
15°	150.8	172.4	189.6	189.6	184.1	163.3	141.7	114.4	107.4	101.2
17.5°	196.6	223.8	239.0	237.4	228.9	214.3	188.4	149.1	134.9	128.6
20°	248.9	265.1	268.6	267.6	263.9	255.5	237.6	195.4	176.3	166.4
22.5°	294.1	289.8	284.7	280.5	279.5	282.0	279.5	247.0	232.0	214.5
25°	324.8	300.3	284.9	277.5	281.0	295.2	310.6	298.4	286.5	268.4
27.5°	341.4	299.1	276.8	269.2	275.2	295.4	328.9	349.5	337.1	328.5
30°	350.5	298.0	271.7	264.3	273.4	298.6	341.6	397.2	397.6	383.8
32.5°	363.4	304.6	272.7	265.9	278.1	308.5	357.7	445.7	457.6	450.2
35°	378.0	314.7	277.5	271.3	286.3	321.7	375.6	494.7	519.6	517.1
37.5°	391.8	326.0	288.6	282.6	298.9	333.0	392.9	542.8	577.3	586.0
40°	406.2	341.8	322.7	328.5	337.5	350.9	408.3	584.5	640.9	653.9
42.5°	440.2	396.8	426.0	436.9	438.1	410.5	442.0	638.0	703.4	718.9
45°	515.8	494.5	578.2	593.6	585.6	502.1	523.3	715.2	790.8	798.7
47.5°	611.5	621.4	786.5	839.8	791.7	610.1	621.8	877.4	950.9	948.0
50°	723.0	769.7	1023.1	1148.7	1033.5	750.3	735.3	1076.9	1166.0	1157.2
52.5°	854.8	942.0	1307.3	1485.8	1376.8	908.1	901.9	1341.2	1395.5	1367.4
55°	1020.8	1108.4	1634.3	1883.8	1728.8	1100.6	1121.8	1647.7	1658.2	1568.7
57.5°	1268.4	1325.4	2019.8	2340.2	2096.1	1362.2	1515.9	2055.6	1930.1	1760.6
60°	1718.1	1604.5	2392.3	2807.1	2486.9	1730.2	2035.6	2297.3	2020.6	1787.0
62.5°	1874.6	1841.5	2625.5	3004.6	2749.8	2032.3	2170.8	2160.3	1903.4	1687.4
65°	1637.4	1782.4	2583.8	2900.3	2716.0	1982.6	1948.0	2009.1	1771.3	1536.2
67.5°	1512.6	1643.8	2425.6	2612.6	2529.1	1813.7	1736.4	1719.7	1487.1	1299.9
70°	1386.7	1516.7	2196.3	2219.5	2180.6	1538.5	1436.9	1325.2	1111.5	948.8
72.5°	1235.3	1306.9	1878.1	1767.8	1723.8	1208.4	1187.0	998.0	833.2	693.6
75°	1077.4	1056.6	1464.2	1213.3	1246.2	940.2	1002.5	732.8	610.5	499.2
77.5°	783.6	768.2	980.7	737.0	816.1	615.8	553.3	292.5	278.5	240.2
80°	437.3	527.2	529.6	413.0	515.2	401.5	138.4	9.7	6.2	9.0
82.5°	203.2	226.7	287.1	191.5	293.9	198.9	28.6	0.0	0.0	0.0
85°	65.8	96.3	80.6	28.2	71.2	67.3	4.7	0.0	0.0	0.0
87.5°	3.9	8.0	2.1	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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