

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: P630341

Luminaire Tested: GWS-SA1D-740-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630341  
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-SA1D-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**

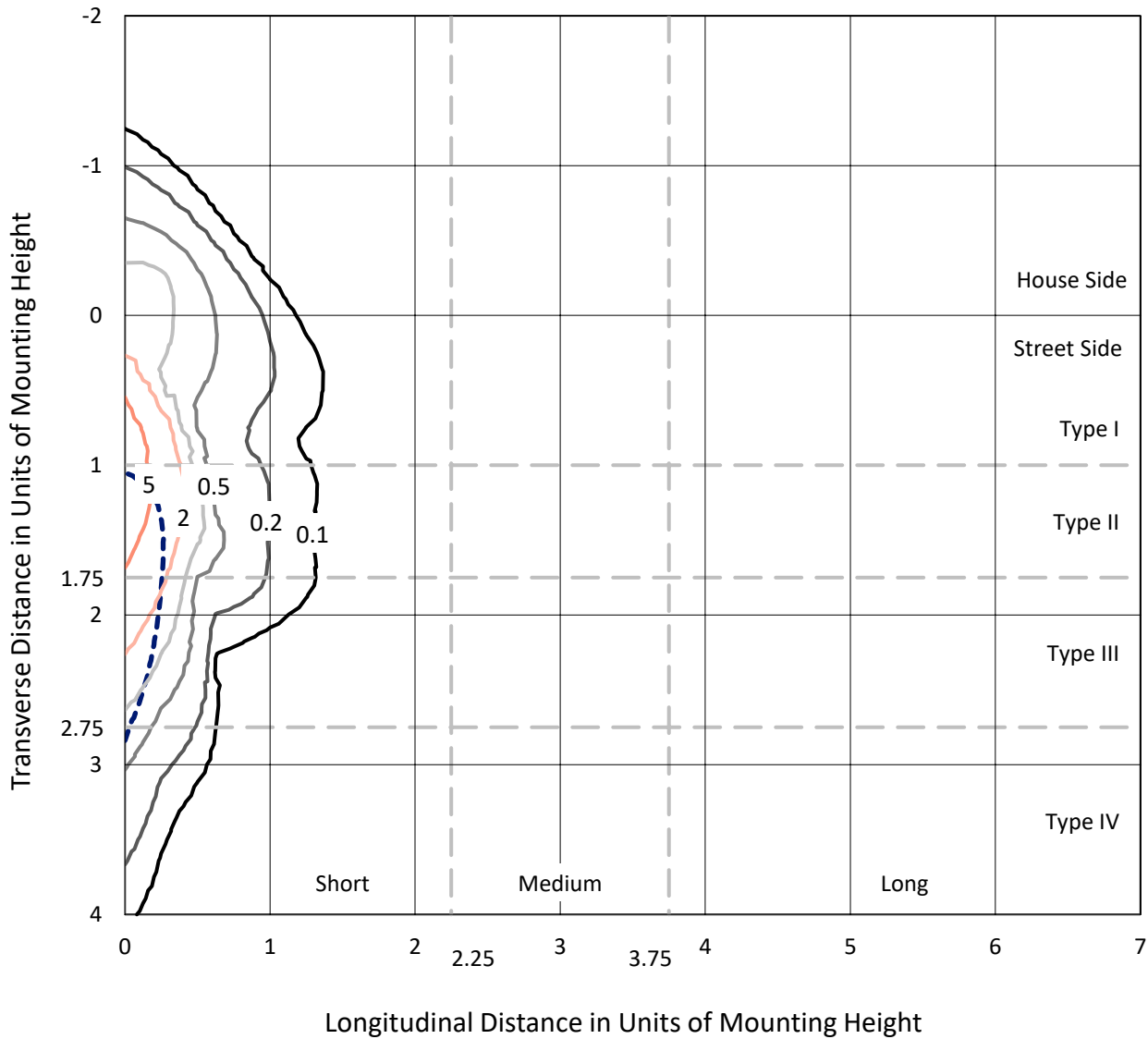
Lumens per Lamp: N/A  
Luminaire Lumens: 3671.4 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

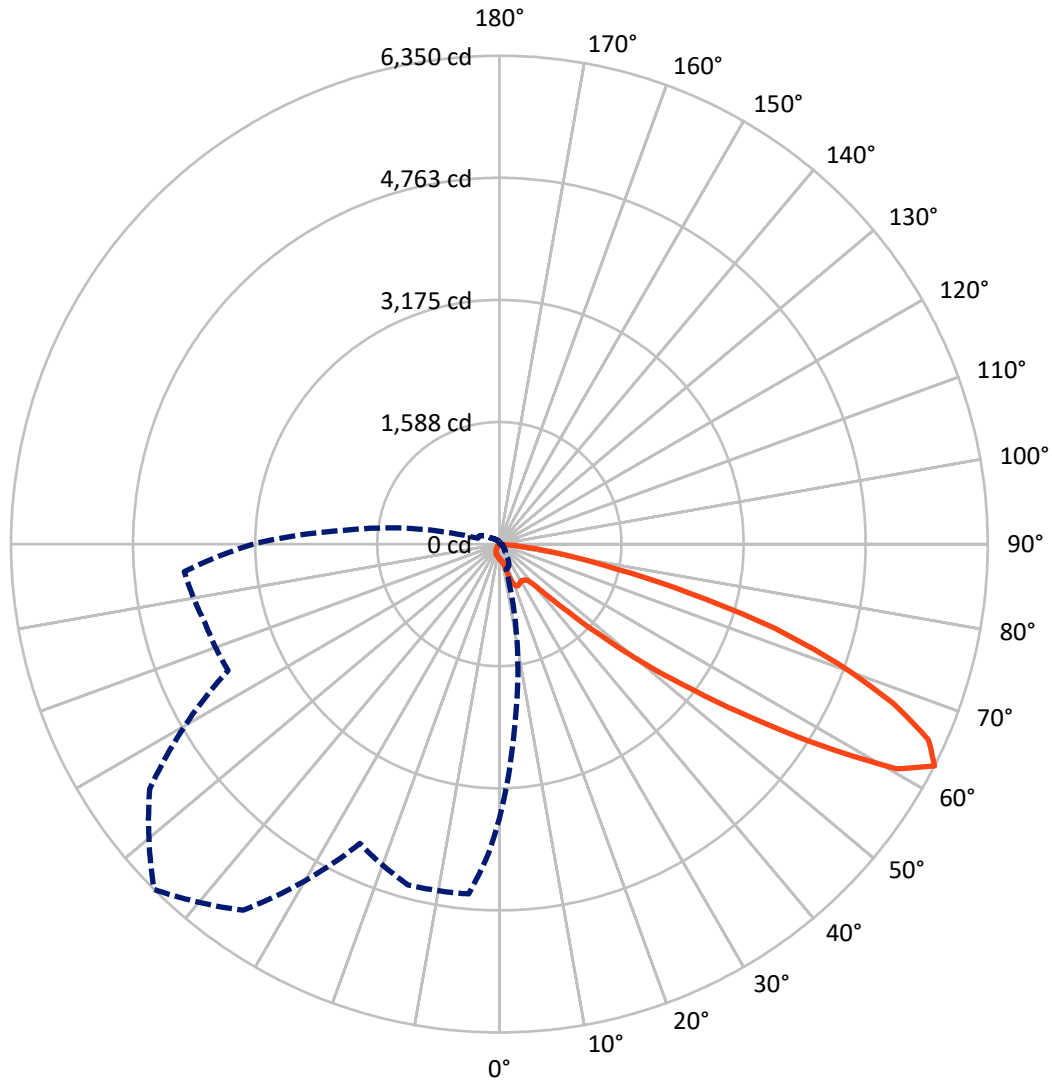
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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	426.6	0.0	426.6
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	3244.8	0.0	3244.8
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	3671.4	0.0	3671.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.4	0.4
10°-20°	56.4	1.5
20°-30°	127.3	3.5
30°-40°	219.3	6.0
40°-50°	413.7	11.3
50°-60°	923.8	25.2
60°-70°	1235.5	33.7
70°-80°	619.6	16.9
80°-90°	59.4	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°	3671.4	100.0
0°-180°	3671.4	100.0

**Coefficient of Utilization**

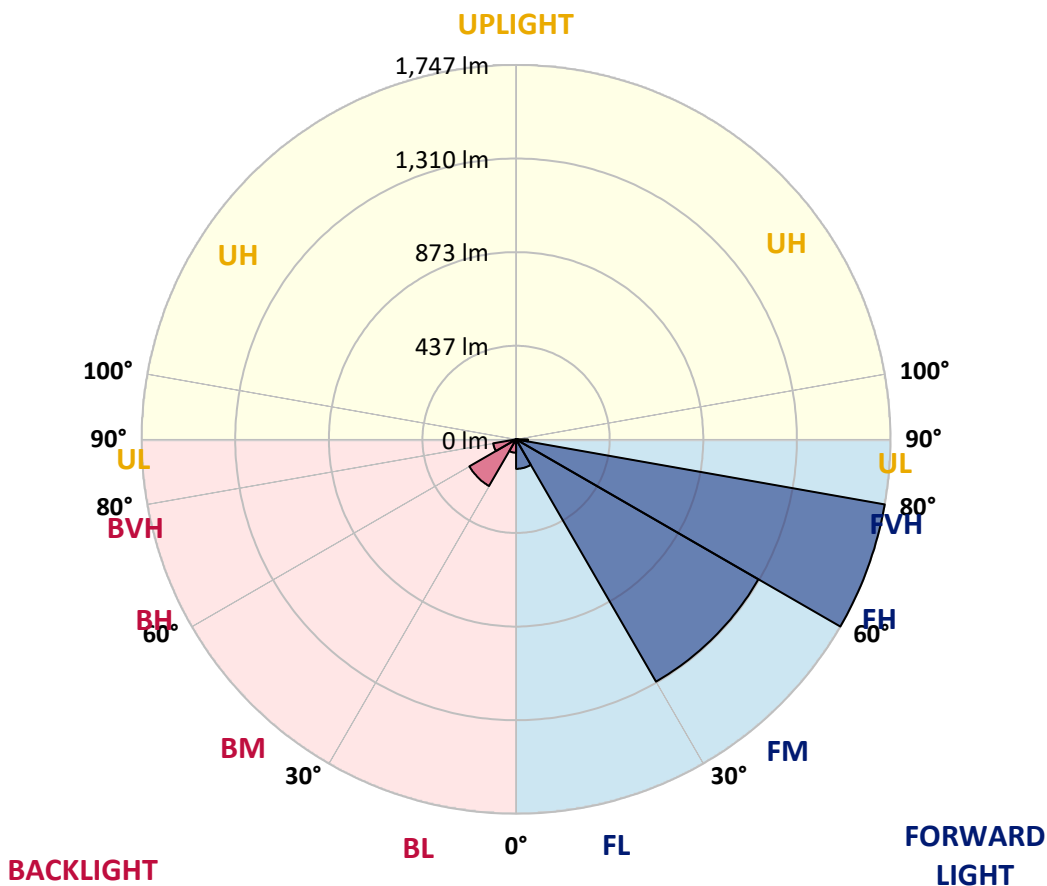


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	137.5	3.7			
FM (30°-60°)	1305.3	35.6			
FH (60°-80°)	1746.6	47.6			G1/1800
FVH (80°-90°)	55.4	1.5			G1/100
BL (0°-30°)	62.6	1.7	B0/110		
BM (30°-60°)	251.5	6.9	B1/1000		
BH (60°-80°)	108.5	3.0	B0/110		G0/110
BVH (80°-90°)	3.9	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-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	188.2	187.8	186.9	184.3	182.1	180.8	178.2	178.2	177.8	176.9	175.2
5°	182.1	180.4	178.7	173.9	168.7	165.6	162.1	161.7	161.7	160.8	160.4
7.5°	172.6	170.8	168.7	160.8	156.1	153.0	150.0	149.5	148.2	148.2	148.2
10°	167.4	164.8	161.3	152.6	147.8	145.2	143.0	141.7	140.8	139.5	139.1
12.5°	178.7	173.9	166.5	150.8	144.3	140.8	138.2	137.4	134.8	133.0	131.7
15°	213.9	202.1	187.4	154.8	143.0	137.8	134.3	132.6	130.4	127.4	125.2
17.5°	271.7	254.7	230.0	167.4	141.7	135.2	130.8	127.8	124.8	121.3	118.7
20°	351.7	326.5	296.9	190.4	141.7	132.2	126.9	123.0	118.7	114.8	111.7
22.5°	453.4	428.2	377.8	229.5	143.5	128.2	122.2	116.9	111.7	108.2	104.8
25°	567.3	531.7	484.7	276.9	148.2	123.0	116.5	111.3	106.5	102.2	98.2
27.5°	694.2	655.5	592.9	344.3	158.7	117.8	110.4	105.6	101.3	96.9	91.7
30°	811.2	788.1	724.2	425.1	175.6	114.3	105.6	101.3	96.9	91.3	86.5
32.5°	951.6	910.7	858.1	517.3	198.2	110.9	101.7	95.6	92.2	86.9	81.7
35°	1092.9	1058.1	989.0	630.8	223.4	107.4	96.9	91.3	88.2	82.2	76.5
37.5°	1238.5	1230.7	1162.4	756.4	248.2	103.5	91.3	87.8	84.8	77.8	71.3
40°	1382.0	1367.6	1304.6	899.9	263.4	99.1	86.5	84.3	80.9	73.0	65.6
42.5°	1519.3	1508.5	1447.2	1037.2	261.3	95.2	81.7	79.1	76.5	68.7	59.6
45°	1688.0	1670.2	1592.8	1138.9	239.1	99.5	76.9	72.6	72.2	64.8	53.5
47.5°	2003.6	1944.9	1813.6	1217.2	216.9	110.9	71.7	66.5	69.6	60.9	47.4
50°	2445.7	2376.6	2186.6	1278.1	216.5	125.6	70.9	60.9	67.4	57.8	42.2
52.5°	2890.0	2768.2	2537.4	1310.7	232.6	136.5	78.7	55.2	64.8	54.8	38.3
55°	3315.6	3063.0	2684.3	1202.8	245.2	148.2	93.0	52.2	60.0	51.3	36.1
57.5°	3721.1	3299.9	2748.3	951.6	287.3	153.0	101.7	53.5	53.0	46.9	34.3
60°	3776.8	3288.6	2619.1	553.4	316.9	144.8	98.2	59.6	46.5	41.7	31.3
62.5°	3566.4	3069.9	2324.8	345.2	294.3	141.7	87.4	67.8	42.2	37.0	27.4
65°	3246.9	2727.0	1938.4	222.6	223.0	157.4	76.5	66.5	39.6	32.6	23.5
67.5°	2747.4	2282.2	1527.1	149.1	126.1	134.3	66.9	45.6	38.7	27.8	18.3
70°	2005.3	1624.5	994.2	99.5	75.2	107.4	56.1	32.6	36.5	23.0	13.0
72.5°	1465.9	1091.6	555.1	65.2	42.6	62.6	41.3	23.5	28.3	17.0	9.1
75°	1055.0	751.2	316.9	41.7	28.3	34.3	27.0	16.1	18.3	13.5	8.3
77.5°	507.7	366.0	143.9	23.0	19.1	17.4	14.3	10.0	11.3	12.2	7.4
80°	19.1	14.3	10.9	11.3	12.2	7.8	6.5	5.2	6.5	8.3	3.9
82.5°	0.0	0.0	0.0	1.3	1.7	2.2	2.6	2.2	2.6	3.0	0.4
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°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	176.5	175.6	176.5	177.4	178.2	179.1	177.8	178.7	179.5	177.4	178.2
5°	162.6	162.1	164.8	166.1	167.8	168.7	167.8	167.8	167.4	164.8	164.8
7.5°	150.4	150.8	153.0	156.1	158.2	159.5	158.7	158.2	156.9	153.0	153.0
10°	141.3	141.3	144.8	147.4	150.4	151.7	150.8	149.5	148.2	144.3	143.9
12.5°	133.9	133.9	136.5	140.8	144.3	146.1	145.6	143.9	141.7	137.8	137.4
15°	126.9	126.5	130.4	134.3	139.1	141.3	140.4	139.1	135.2	131.7	130.8
17.5°	120.0	119.5	123.0	128.2	133.5	136.5	136.1	133.0	129.5	125.2	124.3
20°	113.0	112.2	116.5	121.7	126.9	130.0	129.1	126.5	122.2	117.8	116.9
22.5°	106.1	105.6	108.7	113.0	117.8	120.4	120.0	117.8	113.5	109.5	109.5
25°	98.2	98.2	100.4	103.5	106.9	108.2	108.7	107.8	105.2	103.0	103.0
27.5°	91.7	90.4	91.3	92.2	93.9	96.1	96.1	96.9	97.4	96.5	96.9
30°	86.5	84.3	83.0	81.3	80.4	81.3	82.2	85.2	88.2	90.0	90.9
32.5°	80.4	77.8	74.3	69.6	66.5	65.6	68.2	73.9	79.6	83.5	85.6
35°	74.3	70.9	64.3	57.4	53.5	52.2	55.2	61.7	70.0	76.9	80.0
37.5°	68.2	63.5	54.3	46.1	41.7	40.9	43.9	50.9	60.4	70.0	73.9
40°	61.3	55.6	44.8	36.1	32.6	31.7	34.3	41.3	51.3	62.2	68.2
42.5°	54.3	47.4	36.1	28.7	25.2	25.2	28.7	33.9	43.0	54.8	62.2
45°	47.4	40.0	29.6	23.0	20.9	21.3	23.5	28.7	36.1	48.3	55.2
47.5°	40.9	34.3	24.3	19.1	17.4	17.8	20.4	24.8	30.9	41.7	49.1
50°	35.2	29.1	21.3	16.1	14.8	15.6	18.3	22.2	27.4	37.0	43.0
52.5°	31.7	26.1	19.6	13.9	13.0	13.9	16.5	20.0	24.8	32.6	38.7
55°	30.0	25.6	19.6	12.6	11.3	12.2	14.8	18.3	22.2	29.6	34.8
57.5°	29.6	26.5	20.9	11.3	9.6	10.4	13.0	16.5	20.4	27.0	31.3
60°	27.8	25.2	20.4	9.1	7.4	8.7	10.9	14.3	18.7	25.2	29.1
62.5°	24.3	22.2	17.8	7.4	5.7	6.5	9.1	12.6	17.0	23.0	27.4
65°	20.0	17.8	13.9	4.8	3.5	4.3	7.0	10.9	14.8	20.9	24.8
67.5°	14.8	12.6	9.6	3.0	1.7	3.0	5.7	9.1	13.5	18.7	22.6
70°	9.1	7.4	5.2	1.7	1.3	2.6	5.2	8.7	12.2	17.4	21.3
72.5°	5.2	3.5	2.2	0.9	1.3	2.6	5.2	8.7	11.7	16.5	20.0
75°	3.9	2.2	0.9	0.4	0.9	2.2	4.8	7.8	11.3	15.6	19.1
77.5°	2.6	1.3	0.4	0.0	0.4	1.7	4.3	7.4	10.4	14.8	18.3
80°	0.4	0.0	0.0	0.0	0.0	1.3	3.9	6.5	9.6	13.0	16.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	3.0	5.7	8.3	10.9	13.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.3	6.5	8.3	9.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.3	5.2	6.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	177.8	180.4	180.4	182.1	184.3	188.2	190.4	193.4	195.6	197.8	198.7
5°	164.3	164.8	165.2	166.1	168.7	173.0	176.9	181.7	187.4	191.7	194.3
7.5°	153.0	153.0	153.0	154.3	156.9	160.0	163.9	170.4	176.9	182.1	186.5
10°	143.5	144.8	145.2	147.4	150.4	154.3	158.7	164.3	171.7	178.7	186.5
12.5°	137.4	138.7	140.8	143.0	146.1	150.4	155.2	162.6	177.8	192.1	208.7
15°	131.7	133.5	136.1	139.1	142.6	147.4	152.6	167.8	203.4	230.4	256.5
17.5°	125.6	128.2	131.7	134.8	139.1	144.3	150.8	180.4	250.4	295.2	339.5
20°	117.8	121.3	125.2	130.0	135.2	141.3	150.8	206.5	318.2	382.5	441.2
22.5°	110.4	113.9	118.7	124.8	130.8	136.9	153.0	246.0	405.6	486.9	561.2
25°	104.3	108.7	113.5	118.7	125.6	132.6	158.2	301.7	510.8	615.6	668.2
27.5°	98.7	103.9	108.7	113.0	119.1	126.9	170.0	376.0	635.1	741.6	782.9
30°	93.0	99.1	103.9	108.2	114.3	122.6	187.8	470.8	773.4	876.8	881.2
32.5°	88.2	93.9	99.5	103.9	109.5	119.1	212.6	581.6	915.1	1015.1	974.2
35°	83.0	89.6	94.8	99.5	105.6	116.1	241.3	701.2	1058.1	1142.0	1066.8
37.5°	77.8	85.2	91.7	95.2	101.3	113.0	262.1	826.0	1204.2	1265.9	1148.1
40°	73.0	81.3	88.7	92.2	95.2	109.1	265.2	953.8	1352.4	1388.0	1224.6
42.5°	67.8	76.9	83.5	88.2	90.9	106.5	246.9	1061.6	1476.7	1509.8	1324.6
45°	62.2	73.0	78.2	81.7	86.9	108.2	223.4	1145.0	1618.9	1675.8	1489.3
47.5°	56.5	68.7	73.0	75.6	82.6	118.7	214.7	1200.7	1853.2	1971.4	1767.1
50°	51.3	64.8	69.6	69.1	81.7	132.2	224.3	1242.8	2205.3	2344.4	2147.9
52.5°	45.6	60.4	66.1	64.3	88.2	142.6	243.4	1276.3	2476.1	2781.7	2659.6
55°	40.9	55.6	60.9	60.4	100.4	150.4	258.2	1099.8	2588.3	3188.2	3236.0
57.5°	37.4	50.4	54.8	62.2	108.2	150.4	298.6	780.7	2590.5	3487.3	4001.1
60°	34.3	45.6	48.7	68.2	105.2	142.6	295.6	478.2	2387.4	3466.8	4408.0
62.5°	31.7	41.3	45.2	70.0	93.0	141.3	266.9	296.5	2036.2	3203.0	4112.8
65°	29.6	37.8	43.5	64.3	84.3	151.3	180.0	213.0	1651.5	2902.1	3774.2
67.5°	27.4	34.8	46.1	52.6	76.5	135.2	130.0	151.3	1296.3	2572.2	3463.4
70°	25.6	33.0	48.7	43.0	66.9	105.6	92.2	114.8	992.4	2146.2	3025.6
72.5°	24.3	30.9	40.9	33.9	54.3	81.7	64.3	83.5	648.6	1675.4	2466.6
75°	23.0	28.3	30.0	27.4	40.4	53.5	48.7	56.1	386.5	1224.6	1871.4
77.5°	22.6	26.5	24.3	22.2	27.4	31.7	37.0	37.8	188.7	612.5	980.7
80°	20.0	23.9	20.9	18.3	18.7	20.9	27.4	25.2	43.0	155.6	261.7
82.5°	15.6	18.7	17.4	15.2	15.2	15.2	18.3	17.0	13.9	70.0	118.2
85°	10.9	13.0	13.0	12.2	11.7	11.7	11.3	10.9	3.9	4.3	6.5
87.5°	7.4	9.1	9.6	9.1	7.8	7.0	6.1	5.2	1.7	0.0	0.9
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	201.7	203.0	203.0	201.3	200.0	196.5	193.0	189.5	188.7	188.2
5°	201.7	206.9	209.5	209.1	206.1	200.4	193.0	185.2	183.0	182.1
7.5°	198.7	208.7	216.5	217.8	212.1	202.1	188.7	176.9	173.9	172.6
10°	205.6	225.2	240.8	243.0	236.5	216.9	195.2	175.2	170.4	167.4
12.5°	243.0	275.2	294.3	303.4	290.8	266.0	230.0	194.3	183.4	178.7
15°	318.6	364.3	400.8	400.8	389.1	345.2	299.5	241.7	226.9	213.9
17.5°	415.6	473.0	505.1	501.7	483.8	453.0	398.2	315.2	285.2	271.7
20°	526.0	560.3	567.7	565.6	557.7	539.9	502.1	413.0	372.5	351.7
22.5°	621.6	612.5	601.6	592.9	590.8	596.0	590.8	522.1	490.4	453.4
25°	686.4	634.7	602.1	586.4	593.8	623.8	656.4	630.8	605.6	567.3
27.5°	721.6	632.1	585.1	569.0	581.6	624.2	695.1	738.6	712.5	694.2
30°	740.8	629.9	574.3	558.6	577.7	631.2	722.1	839.4	840.3	811.2
32.5°	768.1	643.8	576.4	562.1	587.7	652.1	756.0	942.0	967.2	951.6
35°	799.0	665.1	586.4	573.4	605.1	679.9	793.8	1045.5	1098.1	1092.9
37.5°	828.1	689.0	609.9	597.3	631.6	703.8	830.3	1147.2	1220.2	1238.5
40°	858.6	722.5	682.1	694.2	713.4	741.6	862.9	1235.5	1354.6	1382.0
42.5°	930.3	838.6	900.3	923.3	925.9	867.7	934.2	1348.5	1486.7	1519.3
45°	1090.3	1045.0	1222.0	1254.6	1237.6	1061.1	1105.9	1511.5	1671.5	1688.0
47.5°	1292.4	1313.3	1662.3	1774.9	1673.2	1289.4	1314.1	1854.5	2009.7	2003.6
50°	1528.0	1626.7	2162.3	2427.9	2184.4	1585.8	1554.1	2276.2	2464.4	2445.7
52.5°	1806.7	1991.0	2763.0	3140.4	2910.0	1919.3	1906.2	2834.8	2949.5	2890.0
55°	2157.5	2342.7	3454.2	3981.5	3653.8	2326.1	2370.9	3482.5	3504.7	3315.6
57.5°	2680.9	2801.3	4268.9	4946.2	4430.2	2879.1	3203.8	4344.5	4079.3	3721.1
60°	3631.2	3391.2	5056.1	5933.0	5256.1	3656.8	4302.3	4855.3	4270.6	3776.8
62.5°	3962.0	3892.0	5549.1	6350.3	5811.7	4295.4	4588.0	4565.8	4022.8	3566.4
65°	3460.7	3767.2	5460.9	6129.9	5740.4	4190.2	4117.2	4246.3	3743.7	3246.9
67.5°	3196.9	3474.2	5126.6	5521.7	5345.2	3833.3	3669.8	3634.6	3143.0	2747.4
70°	2930.8	3205.6	4641.9	4691.0	4608.8	3251.6	3036.9	2800.9	2349.2	2005.3
72.5°	2610.9	2762.2	3969.4	3736.4	3643.3	2553.9	2508.7	2109.2	1761.0	1465.9
75°	2277.0	2233.1	3094.7	2564.4	2633.9	1987.1	2118.8	1548.9	1290.2	1055.0
77.5°	1656.3	1623.7	2072.7	1557.6	1724.9	1301.5	1169.4	618.2	588.6	507.7
80°	924.2	1114.2	1119.4	872.9	1089.0	848.6	292.6	20.4	13.0	19.1
82.5°	429.5	479.1	606.9	404.7	621.2	420.4	60.4	0.0	0.0	0.0
85°	139.1	203.4	170.4	59.6	150.4	142.2	10.0	0.0	0.0	0.0
87.5°	8.3	17.0	4.3	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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