

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: P639750

Luminaire Tested: GWS-SA5C-740-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

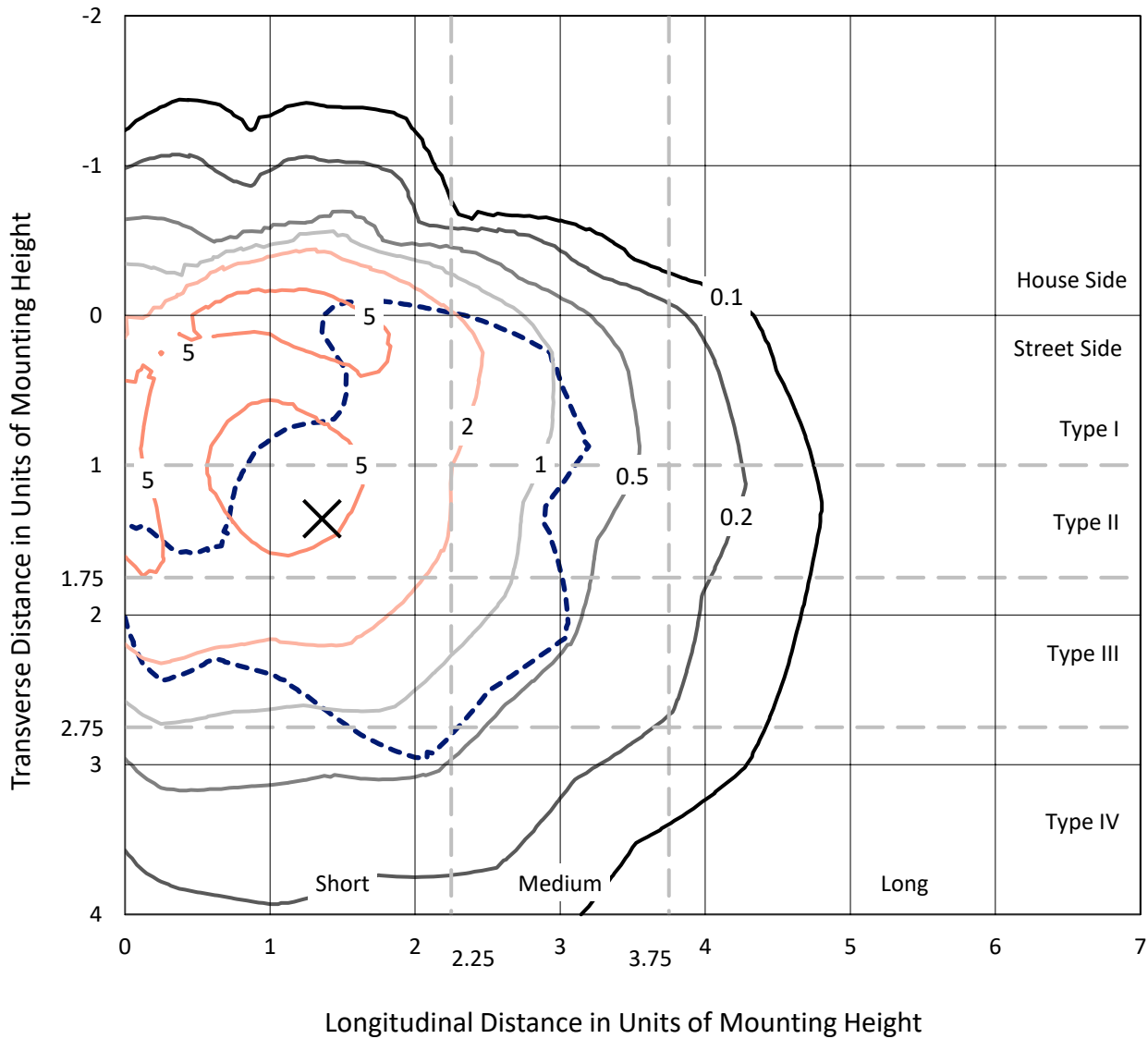
Lumens per Lamp: N/A  
Luminaire Lumens: 14777.9 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

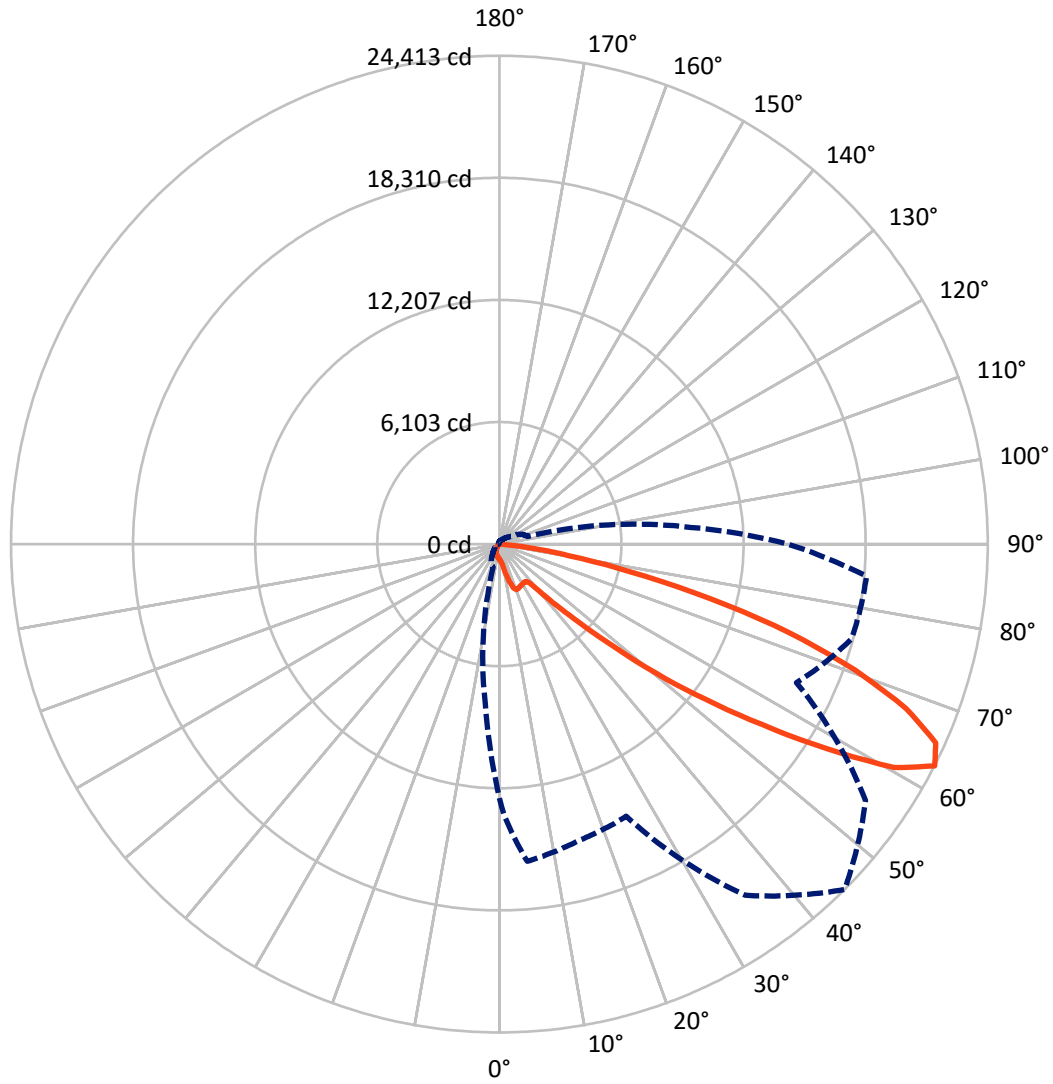
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - 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	1823.6	0.0	1823.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	12954.3	0.0	12954.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	14777.9	0.0	14777.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	0.5
10°-20°	257.6	1.7
20°-30°	560.1	3.8
30°-40°	919.3	6.2
40°-50°	1690.0	11.4
50°-60°	3629.2	24.6
60°-70°	4874.6	33.0
70°-80°	2538.3	17.2
80°-90°	240.7	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°	14777.9	100.0
0°-180°	14777.9	100.0

**Coefficient of Utilization**



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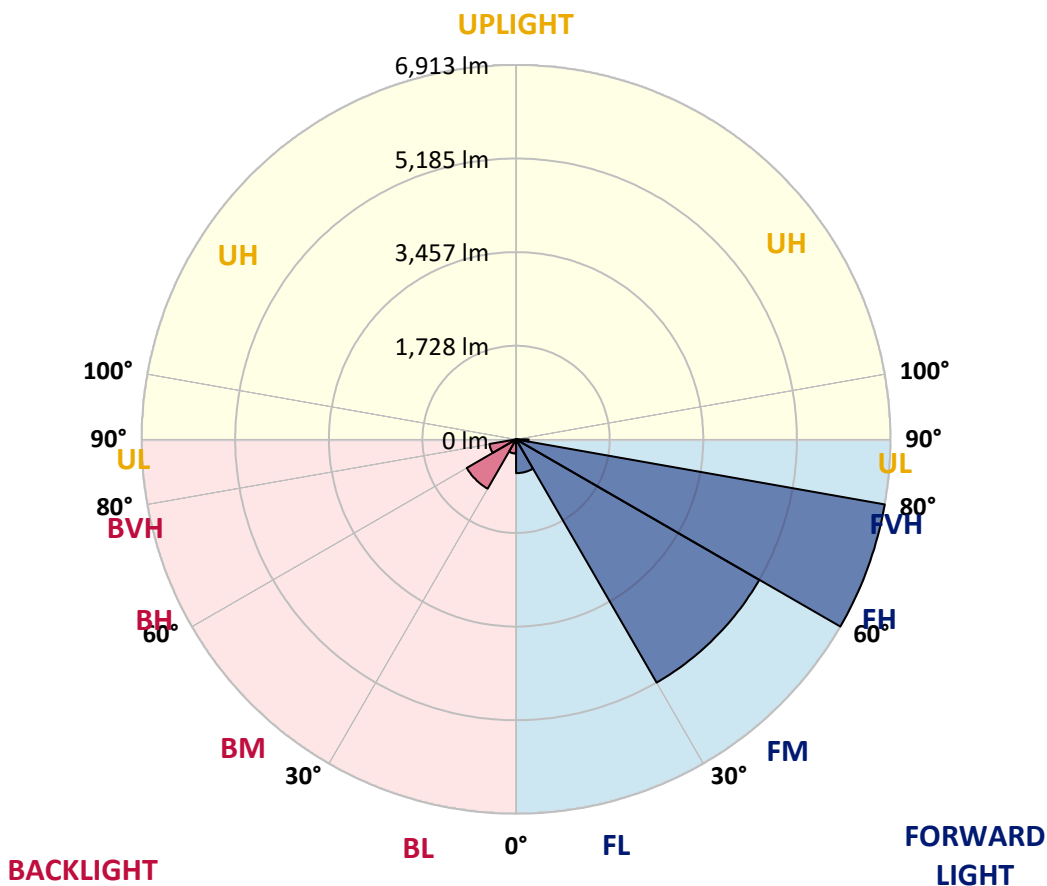
CATALOG NUMBER: GWS-SA5C-740-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.3	4.2			
FM (30°-60°)	5186.9	35.1			
FH (60°-80°)	6913.2	46.8			G3/7500
FVH (80°-90°)	229.9	1.6			G3/500
BL (0°-30°)	261.6	1.8	B1/500		
BM (30°-60°)	1051.6	7.1	B2/2500		
BH (60°-80°)	499.7	3.4	B1/500		G1/500
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1
2.5°	783.5	786.9	790.3	802.3	810.8	817.6	819.4	814.2	802.3	790.3	773.3
5°	759.6	763.0	775.0	807.4	839.8	865.4	874.0	868.9	839.8	802.3	763.0
7.5°	757.9	764.7	793.7	862.0	932.0	984.9	998.6	986.6	932.0	856.9	776.7
10°	819.4	831.3	874.0	996.9	1124.9	1218.8	1256.3	1205.1	1118.1	981.5	850.1
12.5°	979.8	1000.3	1082.2	1261.5	1459.5	1584.1	1635.3	1572.1	1435.6	1237.6	1029.3
15°	1232.4	1263.2	1386.1	1654.1	1887.9	1998.9	2015.9	1980.1	1821.3	1602.9	1322.9
17.5°	1589.2	1633.6	1824.8	2097.9	2266.9	2306.1	2301.0	2263.5	2147.4	1997.2	1732.6
20°	2015.9	2068.9	2256.6	2482.0	2499.0	2452.9	2427.3	2405.1	2365.9	2340.3	2133.7
22.5°	2446.1	2511.0	2707.3	2763.6	2610.0	2476.8	2413.7	2430.7	2488.8	2615.1	2531.5
25°	2874.6	2936.0	3120.4	2968.4	2661.2	2439.3	2359.0	2400.0	2538.3	2811.4	2918.9
27.5°	3374.7	3420.8	3530.0	3108.4	2669.7	2408.6	2330.0	2393.2	2562.2	2934.3	3344.0
30°	3895.3	3922.6	3869.7	3146.0	2640.7	2362.5	2301.0	2393.2	2603.1	3016.2	3663.2
32.5°	4277.7	4282.8	4110.4	3149.4	2625.3	2324.9	2273.7	2382.9	2642.4	3084.5	3972.1
35°	4672.0	4646.4	4340.9	3200.6	2666.3	2338.6	2294.2	2412.0	2703.9	3164.7	4243.6
37.5°	5071.4	5025.4	4598.6	3284.2	2772.1	2487.1	2459.8	2560.5	2802.9	3275.7	4542.3
40°	5481.1	5418.0	4866.6	3410.5	3007.7	2992.3	3086.2	3074.3	3074.3	3417.4	4849.5
42.5°	5981.3	5907.9	5262.6	3767.3	3557.3	3900.5	4156.5	3997.7	3704.1	3743.4	5249.0
45°	6641.9	6578.7	5948.8	4450.1	4419.4	5208.0	5552.8	5238.7	4508.1	4496.2	5916.4
47.5°	7698.5	7686.5	7043.0	5242.1	5474.3	6872.3	7538.0	6933.8	5424.8	5293.3	7179.6
50°	9183.6	9147.7	8406.9	6170.7	6728.9	8934.3	10122.4	9115.3	6532.6	6223.7	8871.2
52.5°	10856.4	10894.0	10317.0	7184.7	8062.1	11228.5	12882.6	11614.3	7736.0	7406.6	10999.8
55°	12431.9	12647.0	12495.1	8371.0	9364.5	13761.7	15914.2	14355.7	9226.2	8954.8	13386.1
57.5°	13664.4	14270.4	15335.5	10095.1	10895.7	16725.0	19299.1	17327.6	10965.6	11469.2	16634.5
60°	13732.7	14534.9	17008.4	13701.9	12865.5	19266.7	22679.0	20231.1	13700.2	15738.4	19179.6
62.5°	12703.4	13563.7	15919.3	15340.6	15011.2	21429.4	24413.2	22347.8	16390.4	18239.1	18425.2
65°	11525.5	12394.4	14703.9	13481.7	14762.0	21337.3	23972.8	22397.3	16634.5	16538.9	17074.9
67.5°	9745.2	10525.2	12616.3	11933.5	13606.3	20308.0	21938.1	20985.6	15325.3	15468.7	15707.6
70°	7113.0	7864.1	9804.9	9839.0	11882.3	18452.5	18850.2	18718.8	14113.3	14265.2	13582.4
72.5°	5138.0	5771.3	7445.9	8068.9	9485.7	15473.8	15199.0	15705.9	12109.3	12705.1	10909.3
75°	3693.9	4168.4	5462.3	7019.1	7519.3	11491.4	10880.3	12163.9	9716.1	10940.0	8202.0
77.5°	1498.7	1666.0	2149.1	4728.3	4941.7	7730.9	6660.6	8835.3	6926.9	7188.1	3975.6
80°	61.5	68.3	88.8	2441.0	3388.4	4349.4	3564.2	4723.2	4574.7	2895.0	938.8
82.5°	6.8	6.8	15.4	703.3	1483.4	2400.0	1679.7	2720.9	2316.4	1227.3	426.7
85°	1.7	1.7	3.4	80.2	348.2	384.1	227.0	834.7	1077.1	501.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	15.4	17.1	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°	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1
2.5°	773.3	764.7	754.5	744.2	739.1	725.5	720.3	716.9	713.5	715.2	715.2
5°	747.7	728.9	706.7	684.5	672.6	658.9	652.1	648.7	650.4	657.2	657.2
7.5°	744.2	708.4	660.6	631.6	617.9	607.7	600.9	597.4	599.2	607.7	611.1
10°	800.6	737.4	652.1	602.6	587.2	577.0	570.1	565.0	561.6	568.4	570.1
12.5°	921.8	834.7	693.0	599.2	571.8	558.2	553.1	542.8	537.7	541.1	542.8
15°	1172.7	1022.5	775.0	612.8	558.2	542.8	534.3	525.8	517.2	515.5	517.2
17.5°	1500.4	1285.4	899.6	645.2	547.9	529.2	517.2	505.3	493.3	491.6	489.9
20°	1906.7	1608.0	1073.7	696.4	539.4	517.2	500.1	483.1	467.7	462.6	462.6
22.5°	2277.1	1997.2	1297.3	759.6	527.5	500.1	479.7	459.2	442.1	433.6	431.9
25°	2729.5	2410.3	1565.3	833.0	510.4	478.0	455.8	435.3	418.2	408.0	404.6
27.5°	3185.2	2845.5	1869.1	928.6	489.9	455.8	435.3	416.5	397.7	385.8	382.4
30°	3627.3	3315.0	2210.5	1048.1	474.5	433.6	416.5	397.7	380.7	361.9	356.8
32.5°	4101.9	3794.6	2592.9	1181.2	462.6	418.2	399.4	382.4	360.2	343.1	334.6
35°	4559.3	4289.6	3014.5	1311.0	450.6	404.6	384.1	367.0	343.1	324.3	312.4
37.5°	5020.2	4793.2	3454.9	1389.5	433.6	385.8	367.0	353.3	326.0	303.8	290.2
40°	5508.4	5313.8	3931.2	1357.0	418.2	365.3	355.1	339.7	309.0	283.4	266.3
42.5°	6044.4	5810.6	4416.0	1232.4	404.6	348.2	338.0	322.6	293.6	262.9	240.7
45°	6718.7	6355.1	4813.7	1044.7	411.4	331.2	310.7	307.3	279.9	240.7	213.4
47.5°	7877.7	7191.5	5122.7	923.5	457.5	312.4	288.5	297.0	268.0	218.5	187.8
50°	9651.3	8577.6	5411.1	914.9	527.5	303.8	268.0	290.2	256.0	196.3	165.6
52.5°	11341.2	9985.8	5595.5	990.0	588.9	326.0	247.5	281.7	247.5	180.9	150.2
55°	12957.7	10798.4	5266.0	1044.7	646.9	392.6	232.1	268.0	237.3	172.4	145.1
57.5°	14700.5	11160.2	4146.3	1155.6	687.9	448.9	235.6	247.5	223.6	167.3	143.4
60°	15221.2	10697.7	2502.4	1300.7	665.7	466.0	261.2	220.2	204.8	157.0	138.3
62.5°	14412.0	9600.1	1476.5	1184.6	646.9	440.4	298.7	203.1	186.1	143.4	128.0
65°	13201.8	8109.9	962.7	1000.3	686.2	392.6	317.5	194.6	169.0	129.7	112.7
67.5°	11819.1	6532.6	674.3	590.6	633.3	353.3	268.0	192.9	151.9	109.2	92.2
70°	9955.1	4892.2	474.5	390.9	527.5	314.1	208.3	187.8	133.1	88.8	71.7
72.5°	7691.7	3062.3	353.3	252.6	375.5	256.0	165.6	158.7	107.5	73.4	54.6
75°	5672.3	1746.2	249.2	182.6	247.5	194.6	122.9	112.7	92.2	70.0	49.5
77.5°	2961.6	874.0	155.3	140.0	141.7	121.2	88.8	81.9	85.3	70.0	46.1
80°	568.4	174.1	93.9	102.4	76.8	76.8	64.9	68.3	75.1	56.3	39.3
82.5°	237.3	37.6	51.2	58.0	47.8	52.9	52.9	54.6	52.9	41.0	29.0
85°	0.0	0.0	22.2	23.9	32.4	32.4	27.3	27.3	27.3	23.9	17.1
87.5°	0.0	0.0	0.0	0.0	1.7	5.1	10.2	11.9	13.7	10.2	6.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1
2.5°	713.5	710.1	715.2	718.6	722.1	722.1	718.6	715.2	710.1	715.2	710.1
5°	658.9	664.0	672.6	676.0	679.4	672.6	669.1	658.9	650.4	652.1	648.7
7.5°	616.2	621.3	631.6	638.4	638.4	635.0	624.8	614.5	600.9	600.9	599.2
10°	577.0	583.8	595.7	604.3	607.7	604.3	594.0	580.4	568.4	568.4	563.3
12.5°	544.5	553.1	566.7	578.7	582.1	578.7	568.4	554.8	541.1	541.1	537.7
15°	517.2	527.5	542.8	556.5	561.6	556.5	544.5	527.5	513.8	515.5	510.4
17.5°	491.6	500.1	520.6	536.0	541.1	536.0	520.6	498.4	484.8	488.2	484.8
20°	462.6	472.8	493.3	510.4	515.5	510.4	493.3	469.4	455.8	455.8	457.5
22.5°	431.9	442.1	462.6	474.5	481.4	476.2	459.2	437.0	423.3	423.3	425.0
25°	404.6	409.7	425.0	437.0	438.7	433.6	419.9	402.8	392.6	397.7	399.4
27.5°	378.9	378.9	385.8	392.6	390.9	385.8	380.7	367.0	365.3	370.4	375.5
30°	351.6	343.1	339.7	334.6	332.9	331.2	336.3	336.3	339.7	346.5	351.6
32.5°	327.7	310.7	295.3	279.9	271.4	278.2	291.9	303.8	315.8	326.0	331.2
35°	300.4	273.1	247.5	227.0	213.4	223.6	245.8	268.0	288.5	302.1	310.7
37.5°	273.1	233.9	203.1	177.5	167.3	175.8	199.7	230.4	261.2	278.2	290.2
40°	244.1	194.6	158.7	138.3	128.0	136.6	160.5	191.2	232.1	254.3	269.7
42.5°	215.1	160.5	128.0	107.5	102.4	107.5	126.3	157.0	201.4	228.7	249.2
45°	186.1	133.1	102.4	87.1	81.9	87.1	102.4	128.0	172.4	203.1	227.0
47.5°	160.5	112.7	85.3	71.7	68.3	73.4	85.3	107.5	145.1	175.8	203.1
50°	140.0	99.0	73.4	61.5	58.0	63.2	73.4	90.5	122.9	150.2	179.2
52.5°	126.3	92.2	64.9	52.9	51.2	54.6	63.2	76.8	104.1	128.0	155.3
55°	122.9	92.2	59.7	47.8	46.1	49.5	56.3	66.6	90.5	111.0	134.9
57.5°	126.3	99.0	56.3	41.0	39.3	42.7	49.5	58.0	78.5	95.6	117.8
60°	126.3	100.7	49.5	32.4	30.7	34.1	41.0	51.2	70.0	83.6	102.4
62.5°	114.4	92.2	41.0	25.6	22.2	25.6	34.1	42.7	61.5	75.1	90.5
65°	99.0	78.5	34.1	18.8	15.4	18.8	27.3	35.8	52.9	64.9	81.9
67.5°	80.2	59.7	25.6	13.7	10.2	13.7	20.5	29.0	44.4	56.3	73.4
70°	59.7	42.7	20.5	11.9	10.2	11.9	18.8	27.3	39.3	51.2	68.3
72.5°	44.4	29.0	17.1	11.9	8.5	11.9	17.1	25.6	37.6	49.5	64.9
75°	37.6	23.9	15.4	10.2	8.5	10.2	15.4	23.9	34.1	46.1	61.5
77.5°	35.8	22.2	13.7	8.5	6.8	8.5	13.7	20.5	30.7	42.7	59.7
80°	30.7	18.8	11.9	6.8	5.1	6.8	11.9	17.1	23.9	32.4	46.1
82.5°	23.9	15.4	8.5	3.4	1.7	3.4	8.5	10.2	15.4	18.8	27.3
85°	15.4	8.5	3.4	0.0	0.0	0.0	3.4	6.8	6.8	8.5	13.7
87.5°	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.1
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1
2.5°	720.3	722.1	725.5	730.6	742.5	752.8	763.0	776.7	783.5	783.5
5°	652.1	653.8	655.5	662.3	679.4	693.0	715.2	742.5	756.2	759.6
7.5°	599.2	602.6	606.0	611.1	628.2	646.9	676.0	727.2	752.8	757.9
10°	568.4	573.5	580.4	590.6	606.0	626.5	676.0	768.1	810.8	819.4
12.5°	544.5	553.1	559.9	571.8	590.6	623.0	722.1	884.2	959.3	979.8
15°	520.6	530.9	541.1	553.1	573.5	635.0	810.8	1092.5	1217.1	1232.4
17.5°	496.7	508.7	522.3	536.0	561.6	664.0	950.8	1380.9	1555.1	1589.2
20°	469.4	484.8	503.6	520.6	549.6	710.1	1145.4	1724.1	1942.5	2015.9
22.5°	440.4	459.2	481.4	503.6	536.0	766.4	1380.9	2092.8	2398.3	2446.1
25°	416.5	435.3	455.8	478.0	513.8	834.7	1666.0	2550.2	2828.5	2874.6
27.5°	394.3	413.1	431.9	452.3	491.6	923.5	2009.1	3036.7	3326.9	3374.7
30°	370.4	392.6	411.4	431.9	471.1	1032.7	2405.1	3576.1	3850.9	3895.3
32.5°	349.9	372.1	390.9	411.4	455.8	1152.2	2821.6	4054.1	4277.7	4277.7
35°	332.9	356.8	370.4	397.7	443.8	1229.0	3216.0	4509.8	4678.8	4672.0
37.5°	314.1	343.1	353.3	372.1	428.5	1237.6	3586.4	4991.2	5115.8	5071.4
40°	295.3	326.0	341.4	351.6	411.4	1167.6	3992.6	5433.3	5539.2	5481.1
42.5°	278.2	302.1	324.3	336.3	401.1	1044.7	4318.7	5906.2	6032.5	5981.3
45°	261.2	281.7	295.3	317.5	408.0	959.3	4598.6	6457.5	6679.4	6641.9
47.5°	244.1	261.2	269.7	303.8	454.1	920.1	4769.3	7311.0	7729.2	7698.5
50°	225.3	245.8	245.8	300.4	522.3	933.7	4917.8	8546.9	9193.8	9183.6
52.5°	206.5	228.7	225.3	326.0	575.3	996.9	5086.8	9637.6	10762.5	10856.4
55°	187.8	208.3	211.7	377.2	606.0	1051.5	4433.0	10096.8	12102.5	12431.9
57.5°	167.3	179.2	220.2	416.5	595.7	1210.2	3036.7	10180.4	12957.7	13664.4
60°	145.1	155.3	249.2	408.0	563.3	1118.1	1911.8	9429.4	12836.5	13732.7
62.5°	126.3	143.4	262.9	360.2	573.5	969.6	1218.8	8036.5	11680.9	12703.4
65°	111.0	138.3	239.0	326.0	580.4	657.2	822.8	6537.7	10552.6	11525.5
67.5°	99.0	153.6	196.3	290.2	498.4	462.6	565.0	5080.0	8872.9	9745.2
70°	90.5	157.0	160.5	249.2	385.8	297.0	372.1	3419.1	6116.1	7113.0
72.5°	81.9	116.1	121.2	199.7	249.2	180.9	240.7	1956.2	4458.6	5138.0
75°	78.5	78.5	83.6	129.7	138.3	131.4	155.3	1167.6	3197.2	3693.9
77.5°	73.4	59.7	52.9	83.6	75.1	93.9	92.2	518.9	1386.1	1498.7
80°	58.0	42.7	35.8	52.9	51.2	63.2	54.6	42.7	63.2	61.5
82.5°	35.8	27.3	25.6	32.4	29.0	32.4	25.6	6.8	6.8	6.8
85°	17.1	15.4	13.7	13.7	15.4	13.7	10.2	3.4	1.7	1.7
87.5°	8.5	8.5	6.8	5.1	6.8	6.8	5.1	1.7	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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