

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: P636226

Luminaire Tested: GWS-SA3F-735-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636226  
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-SA3F-735-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

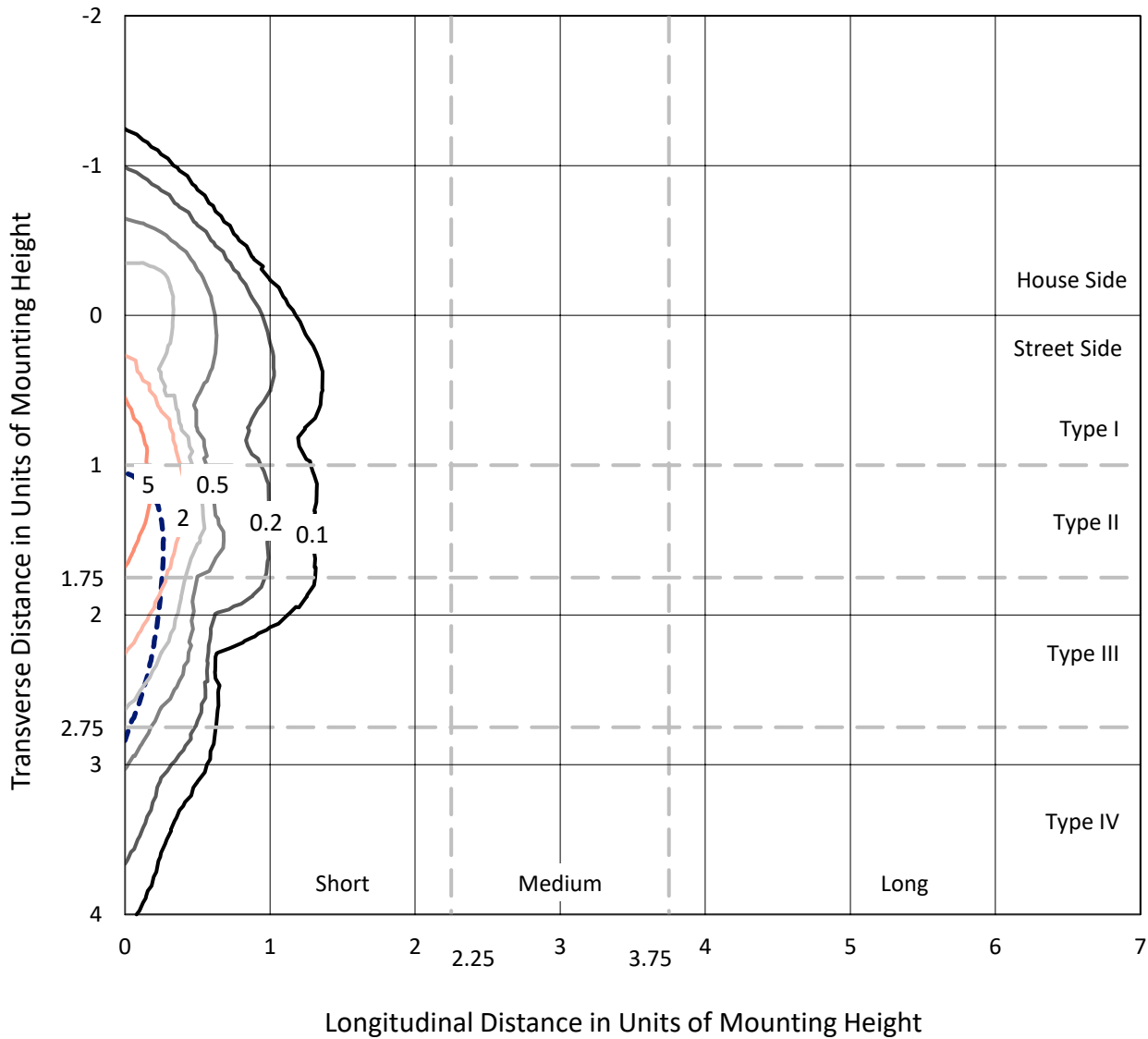
Lumens per Lamp: N/A  
Luminaire Lumens: 14601.2 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

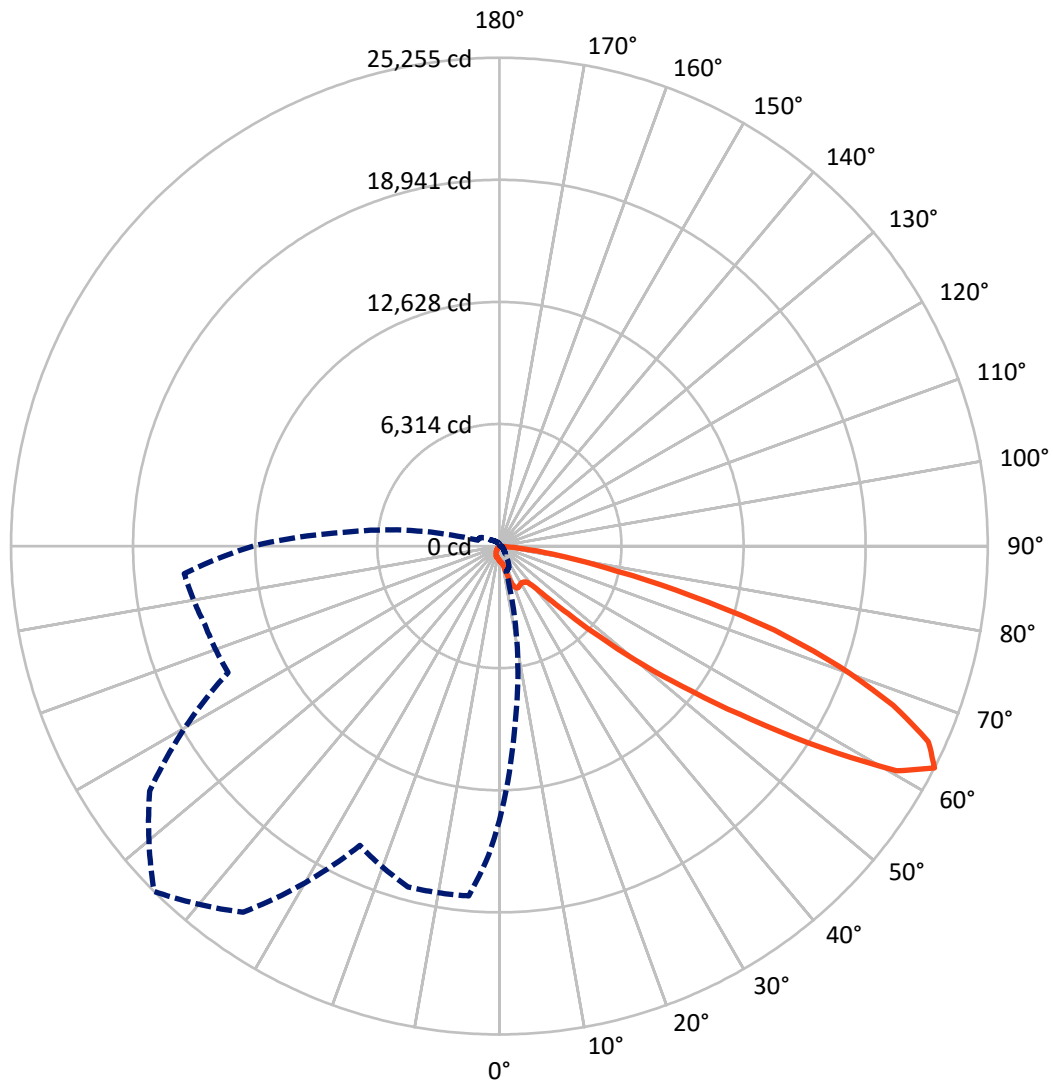
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	1696.5	0.0	1696.5
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	12904.7	0.0	12904.7
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	14601.2	0.0	14601.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	0.4
10°-20°	224.1	1.5
20°-30°	506.3	3.5
30°-40°	872.3	6.0
40°-50°	1645.4	11.3
50°-60°	3673.8	25.2
60°-70°	4913.6	33.7
70°-80°	2464.0	16.9
80°-90°	236.2	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°	14601.2	100.0
0°-180°	14601.2	100.0

**Coefficient of Utilization**



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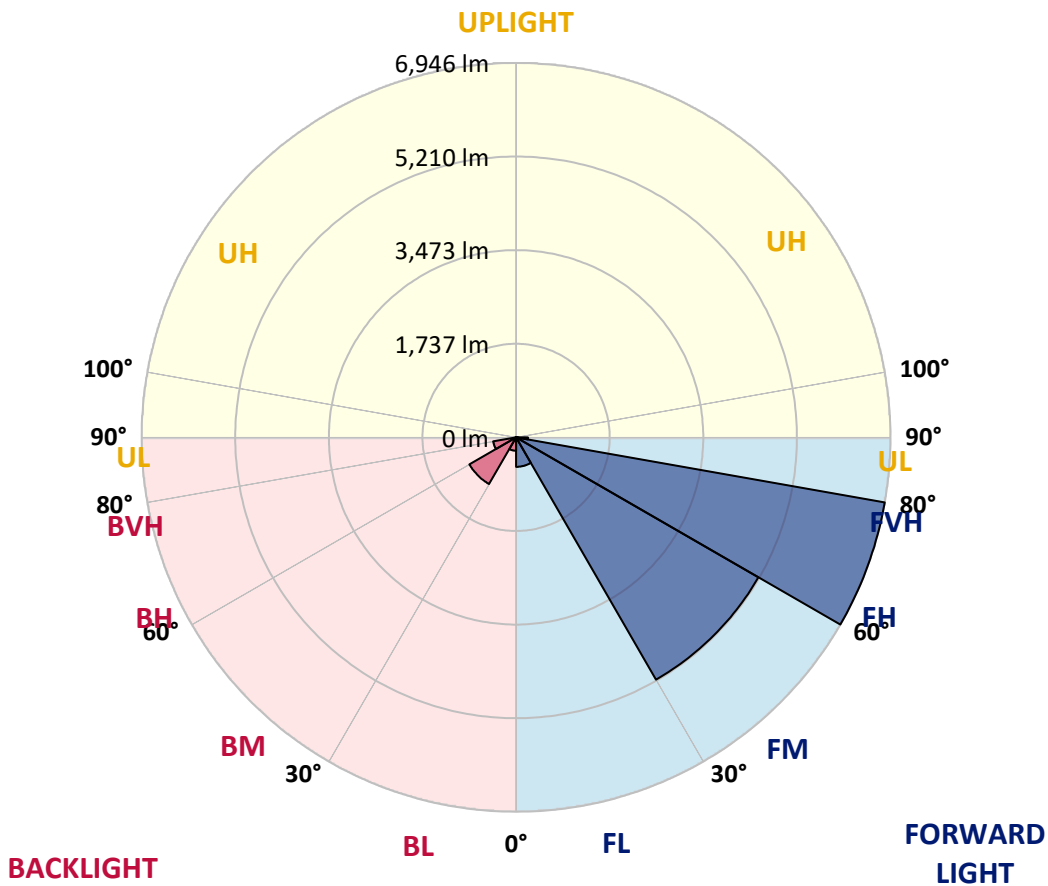
CATALOG NUMBER: GWS-SA3F-735-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.8	3.7			
FM (30°-60°)	5191.2	35.6			
FH (60°-80°)	6946.3	47.6			G3/7500
FVH (80°-90°)	220.5	1.5			G2/225
BL (0°-30°)	249.0	1.7	B1/500		
BM (30°-60°)	1000.3	6.9	B2/2500		
BH (60°-80°)	431.4	3.0	B1/500		G1/500
BVH (80°-90°)	15.7	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	748.6	746.9	743.4	733.0	724.4	719.2	708.8	708.8	707.1	703.6	696.7
5°	724.4	717.5	710.6	691.5	670.8	658.7	644.9	643.1	643.1	639.7	637.9
7.5°	686.4	679.4	670.8	639.7	620.7	608.6	596.5	594.7	589.5	589.5	589.5
10°	665.6	655.2	641.4	606.8	587.8	577.4	568.8	563.6	560.1	555.0	553.2
12.5°	710.6	691.5	662.2	599.9	574.0	560.1	549.8	546.3	535.9	529.0	523.8
15°	850.6	803.9	745.1	615.5	568.8	548.0	534.2	527.3	518.7	506.6	497.9
17.5°	1080.5	1013.1	914.6	665.6	563.6	537.7	520.4	508.3	496.2	482.4	472.0
20°	1398.6	1298.4	1180.8	757.2	563.6	525.6	504.8	489.3	472.0	456.4	444.3
22.5°	1803.2	1702.9	1502.4	912.8	570.5	510.0	485.8	465.1	444.3	430.5	416.7
25°	2256.2	2114.4	1927.7	1101.3	589.5	489.3	463.3	442.6	423.6	406.3	390.7
27.5°	2761.0	2607.1	2358.2	1369.3	631.0	468.5	439.1	420.1	402.8	385.5	364.8
30°	3226.0	3134.4	2880.3	1690.8	698.5	454.7	420.1	402.8	385.5	363.1	344.0
32.5°	3784.5	3622.0	3412.8	2057.3	788.4	440.9	404.6	380.3	366.5	345.8	325.0
35°	4346.3	4208.0	3933.1	2508.6	888.6	427.0	385.5	363.1	351.0	326.8	304.3
37.5°	4925.5	4894.4	4623.0	3008.2	987.2	411.5	363.1	349.2	337.1	309.5	283.5
40°	5496.0	5439.0	5188.3	3578.7	1047.7	394.2	344.0	335.4	321.6	290.4	261.1
42.5°	6042.4	5999.1	5755.4	4125.1	1039.0	378.6	325.0	314.7	304.3	273.2	236.9
45°	6713.2	6642.3	6334.5	4529.6	950.9	395.9	306.0	288.7	287.0	257.6	212.6
47.5°	7968.3	7734.9	7212.8	4840.8	862.7	440.9	285.3	264.5	276.6	242.0	188.4
50°	9726.5	9451.7	8696.1	5082.8	861.0	499.6	281.8	242.0	268.0	229.9	167.7
52.5°	11493.4	11009.4	10091.3	5212.5	924.9	542.9	312.9	219.6	257.6	217.8	152.1
55°	13186.0	12181.5	10675.7	4783.7	975.1	589.5	370.0	207.5	238.6	204.0	143.5
57.5°	14799.0	13123.8	10929.8	3784.5	1142.8	608.6	404.6	212.6	210.9	186.7	136.6
60°	15020.3	13078.8	10416.4	2200.8	1260.3	575.7	390.7	236.9	185.0	166.0	124.5
62.5°	14183.5	12209.2	9245.9	1372.7	1170.4	563.6	347.5	269.7	167.7	147.0	108.9
65°	12912.8	10845.1	7709.0	885.2	886.9	625.8	304.3	264.5	157.3	129.7	93.4
67.5°	10926.4	9076.5	6073.5	593.0	501.4	534.2	266.2	181.5	153.9	110.6	72.6
70°	7975.2	6460.7	3953.9	395.9	299.1	427.0	223.0	129.7	145.2	91.6	51.9
72.5°	5829.7	4341.2	2207.7	259.3	169.4	249.0	164.2	93.4	112.4	67.4	36.3
75°	4195.9	2987.5	1260.3	166.0	112.4	136.6	107.2	64.0	72.6	53.6	32.8
77.5°	2019.3	1455.7	572.3	91.6	76.1	69.2	57.1	39.8	45.0	48.4	29.4
80°	76.1	57.1	43.2	45.0	48.4	31.1	25.9	20.7	25.9	32.8	15.6
82.5°	0.0	0.0	0.0	5.2	6.9	8.6	10.4	8.6	10.4	12.1	1.7
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°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	701.9	698.5	701.9	705.4	708.8	712.3	707.1	710.6	714.0	705.4	708.8
5°	646.6	644.9	655.2	660.4	667.3	670.8	667.3	667.3	665.6	655.2	655.2
7.5°	598.2	599.9	608.6	620.7	629.3	634.5	631.0	629.3	624.1	608.6	608.6
10°	561.9	561.9	575.7	586.1	598.2	603.4	599.9	594.7	589.5	574.0	572.3
12.5°	532.5	532.5	542.9	560.1	574.0	580.9	579.2	572.3	563.6	548.0	546.3
15°	504.8	503.1	518.7	534.2	553.2	561.9	558.4	553.2	537.7	523.8	520.4
17.5°	477.2	475.4	489.3	510.0	530.8	542.9	541.1	529.0	515.2	497.9	494.5
20°	449.5	446.0	463.3	484.1	504.8	516.9	513.5	503.1	485.8	468.5	465.1
22.5°	421.8	420.1	432.2	449.5	468.5	478.9	477.2	468.5	451.2	435.7	435.7
25°	390.7	390.7	399.4	411.5	425.3	430.5	432.2	428.8	418.4	409.7	409.7
27.5°	364.8	359.6	363.1	366.5	373.4	382.1	382.1	385.5	387.3	383.8	385.5
30°	344.0	335.4	330.2	323.3	319.8	323.3	326.8	338.9	351.0	357.9	361.3
32.5°	319.8	309.5	295.6	276.6	264.5	261.1	271.4	293.9	316.4	331.9	340.6
35°	295.6	281.8	255.9	228.2	212.6	207.5	219.6	245.5	278.3	306.0	318.1
37.5°	271.4	252.4	216.1	183.3	166.0	162.5	174.6	202.3	240.3	278.3	293.9
40°	243.8	221.3	178.1	143.5	129.7	126.2	136.6	164.2	204.0	247.2	271.4
42.5°	216.1	188.4	143.5	114.1	100.3	100.3	114.1	134.9	171.2	217.8	247.2
45°	188.4	159.1	117.6	91.6	83.0	84.7	93.4	114.1	143.5	191.9	219.6
47.5°	162.5	136.6	96.8	76.1	69.2	70.9	81.3	98.5	122.7	166.0	195.4
50°	140.0	115.8	84.7	64.0	58.8	62.2	72.6	88.2	108.9	147.0	171.2
52.5°	126.2	103.7	77.8	55.3	51.9	55.3	65.7	79.5	98.5	129.7	153.9
55°	119.3	102.0	77.8	50.1	45.0	48.4	58.8	72.6	88.2	117.6	138.3
57.5°	117.6	105.5	83.0	45.0	38.0	41.5	51.9	65.7	81.3	107.2	124.5
60°	110.6	100.3	81.3	36.3	29.4	34.6	43.2	57.1	74.3	100.3	115.8
62.5°	96.8	88.2	70.9	29.4	22.5	25.9	36.3	50.1	67.4	91.6	108.9
65°	79.5	70.9	55.3	19.0	13.8	17.3	27.7	43.2	58.8	83.0	98.5
67.5°	58.8	50.1	38.0	12.1	6.9	12.1	22.5	36.3	53.6	74.3	89.9
70°	36.3	29.4	20.7	6.9	5.2	10.4	20.7	34.6	48.4	69.2	84.7
72.5°	20.7	13.8	8.6	3.5	5.2	10.4	20.7	34.6	46.7	65.7	79.5
75°	15.6	8.6	3.5	1.7	3.5	8.6	19.0	31.1	45.0	62.2	76.1
77.5°	10.4	5.2	1.7	0.0	1.7	6.9	17.3	29.4	41.5	58.8	72.6
80°	1.7	0.0	0.0	0.0	0.0	5.2	15.6	25.9	38.0	51.9	64.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.7	12.1	22.5	32.8	43.2	51.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	17.3	25.9	32.8	36.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	17.3	20.7	24.2
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°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	707.1	717.5	717.5	724.4	733.0	748.6	757.2	769.3	778.0	786.6	790.1
5°	653.5	655.2	657.0	660.4	670.8	688.1	703.6	722.7	745.1	762.4	772.8
7.5°	608.6	608.6	608.6	613.7	624.1	636.2	651.8	677.7	703.6	724.4	741.7
10°	570.5	575.7	577.4	586.1	598.2	613.7	631.0	653.5	682.9	710.6	741.7
12.5°	546.3	551.5	560.1	568.8	580.9	598.2	617.2	646.6	707.1	764.2	829.9
15°	523.8	530.8	541.1	553.2	567.1	586.1	606.8	667.3	809.1	916.3	1020.0
17.5°	499.6	510.0	523.8	535.9	553.2	574.0	599.9	717.5	995.8	1173.9	1350.2
20°	468.5	482.4	497.9	516.9	537.7	561.9	599.9	821.2	1265.5	1521.4	1754.8
22.5°	439.1	453.0	472.0	496.2	520.4	544.6	608.6	978.5	1613.0	1936.3	2232.0
25°	414.9	432.2	451.2	472.0	499.6	527.3	629.3	1199.8	2031.4	2448.1	2657.3
27.5°	392.5	413.2	432.2	449.5	473.7	504.8	676.0	1495.5	2525.9	2949.4	3113.7
30°	370.0	394.2	413.2	430.5	454.7	487.5	746.9	1872.4	3075.6	3487.1	3504.4
32.5°	351.0	373.4	395.9	413.2	435.7	473.7	845.4	2313.2	3639.2	4036.9	3874.4
35°	330.2	356.1	376.9	395.9	420.1	461.6	959.5	2788.6	4208.0	4541.7	4242.6
37.5°	309.5	338.9	364.8	378.6	402.8	449.5	1042.5	3284.8	4788.9	5034.4	4565.9
40°	290.4	323.3	352.7	366.5	378.6	433.9	1054.6	3793.1	5378.5	5520.2	4870.2
42.5°	269.7	306.0	331.9	351.0	361.3	423.6	982.0	4221.9	5872.9	6004.3	5267.8
45°	247.2	290.4	311.2	325.0	345.8	430.5	888.6	4553.8	6438.3	6664.7	5923.1
47.5°	224.8	273.2	290.4	300.8	328.5	472.0	854.1	4775.1	7370.1	7840.4	7027.8
50°	204.0	257.6	276.6	274.9	325.0	525.6	892.1	4942.8	8770.5	9323.7	8542.3
52.5°	181.5	240.3	262.8	255.9	351.0	567.1	968.2	5075.9	9847.6	11063.0	10577.1
55°	162.5	221.3	242.0	240.3	399.4	598.2	1026.9	4374.0	10293.6	12679.4	12869.6
57.5°	148.7	200.5	217.8	247.2	430.5	598.2	1187.7	3105.0	10302.3	13868.9	15912.4
60°	136.6	181.5	193.6	271.4	418.4	567.1	1175.6	1901.7	9494.9	13787.6	17530.6
62.5°	126.2	164.2	179.8	278.3	370.0	561.9	1061.5	1179.1	8098.0	12738.2	16356.7
65°	117.6	150.4	172.9	255.9	335.4	601.6	715.7	847.1	6567.9	11541.8	15009.9
67.5°	108.9	138.3	183.3	209.2	304.3	537.7	516.9	601.6	5155.5	10229.6	13773.8
70°	102.0	131.4	193.6	171.2	266.2	420.1	366.5	456.4	3947.0	8535.4	12032.8
72.5°	96.8	122.7	162.5	134.9	216.1	325.0	255.9	331.9	2579.5	6663.0	9809.5
75°	91.6	112.4	119.3	108.9	160.8	212.6	193.6	223.0	1537.0	4870.2	7442.7
77.5°	89.9	105.5	96.8	88.2	108.9	126.2	147.0	150.4	750.3	2436.0	3900.3
80°	79.5	95.1	83.0	72.6	74.3	83.0	108.9	100.3	171.2	618.9	1040.8
82.5°	62.2	74.3	69.2	60.5	60.5	60.5	72.6	67.4	55.3	278.3	470.2
85°	43.2	51.9	51.9	48.4	46.7	46.7	45.0	43.2	15.6	17.3	25.9
87.5°	29.4	36.3	38.0	36.3	31.1	27.7	24.2	20.7	6.9	0.0	3.5
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°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	802.2	807.4	807.4	800.5	795.3	781.4	767.6	753.8	750.3	748.6
5°	802.2	822.9	833.3	831.6	819.5	797.0	767.6	736.5	727.8	724.4
7.5°	790.1	829.9	861.0	866.2	843.7	803.9	750.3	703.6	691.5	686.4
10°	817.7	895.5	957.8	966.4	940.5	862.7	776.3	696.7	677.7	665.6
12.5°	966.4	1094.4	1170.4	1206.7	1156.6	1058.1	914.6	772.8	729.6	710.6
15°	1267.3	1448.8	1594.0	1594.0	1547.3	1372.7	1191.2	961.2	902.5	850.6
17.5°	1652.8	1881.0	2008.9	1995.1	1924.2	1801.5	1583.6	1253.4	1134.1	1080.5
20°	2091.9	2228.5	2257.9	2249.2	2218.1	2147.2	1996.8	1642.4	1481.6	1398.6
22.5°	2472.3	2436.0	2392.7	2358.2	2349.5	2370.3	2349.5	2076.4	1950.2	1803.2
25°	2729.9	2524.1	2394.5	2332.2	2361.6	2480.9	2610.6	2508.6	2408.3	2256.2
27.5°	2869.9	2513.8	2327.0	2263.1	2313.2	2482.6	2764.4	2937.3	2833.6	2761.0
30°	2946.0	2505.1	2283.8	2221.6	2297.7	2510.3	2871.6	3338.4	3341.9	3226.0
32.5°	3054.9	2560.4	2292.5	2235.4	2337.4	2593.3	3006.5	3746.4	3846.7	3784.5
35°	3177.6	2645.2	2332.2	2280.4	2406.6	2703.9	3156.9	4157.9	4367.1	4346.3
37.5°	3293.5	2740.2	2425.6	2375.4	2512.0	2799.0	3302.1	4562.5	4852.9	4925.5
40°	3414.5	2873.4	2712.6	2761.0	2837.1	2949.4	3431.8	4913.4	5387.1	5496.0
42.5°	3699.8	3335.0	3580.5	3672.1	3682.5	3450.8	3715.3	5362.9	5912.7	6042.4
45°	4336.0	4156.2	4859.8	4989.5	4922.1	4220.1	4398.2	6011.2	6647.5	6713.2
47.5°	5139.9	5222.9	6611.1	7058.9	6654.4	5127.8	5226.3	7375.3	7992.5	7968.3
50°	6076.9	6469.4	8599.3	9655.7	8687.5	6306.9	6180.7	9052.3	9800.9	9726.5
52.5°	7185.1	7918.2	10988.6	12489.3	11573.0	7632.9	7581.0	11273.9	11730.3	11493.4
55°	8580.3	9316.8	13737.5	15834.6	14531.0	9251.1	9429.2	13849.9	13938.0	13186.0
57.5°	10661.9	11140.8	16977.4	19670.9	17618.8	11450.2	12741.7	17278.2	16223.6	14799.0
60°	14441.1	13486.8	20108.3	23595.4	20903.6	14543.1	17110.5	19309.6	16984.3	15020.3
62.5°	15756.8	15478.5	22068.9	25255.1	23113.1	17082.8	18246.4	18158.2	15998.8	14183.5
65°	13763.4	14982.3	21717.9	24378.6	22829.6	16664.4	16374.0	16887.5	14888.9	12912.8
67.5°	12714.0	13817.0	20388.4	21959.9	21258.0	15245.1	14595.0	14455.0	12499.6	10926.4
70°	11656.0	12748.6	18460.7	18656.1	18329.3	12931.8	12077.8	11139.0	9342.7	7975.2
72.5°	10383.5	10985.2	15786.2	14859.5	14489.5	10157.0	9977.2	8388.4	7003.6	5829.7
75°	9055.8	8881.1	12307.7	10198.5	10475.1	7902.6	8426.4	6159.9	5131.2	4195.9
77.5°	6586.9	6457.3	8243.2	6194.5	6860.1	5176.2	4650.6	2458.4	2340.9	2019.3
80°	3675.5	4431.1	4451.8	3471.5	4330.8	3374.7	1163.5	81.3	51.9	76.1
82.5°	1708.1	1905.2	2413.5	1609.6	2470.5	1671.8	240.3	0.0	0.0	0.0
85°	553.2	809.1	677.7	236.9	598.2	565.3	39.8	0.0	0.0	0.0
87.5°	32.8	67.4	17.3	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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