

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: P640024

Luminaire Tested: GWS-SA5D-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-722-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

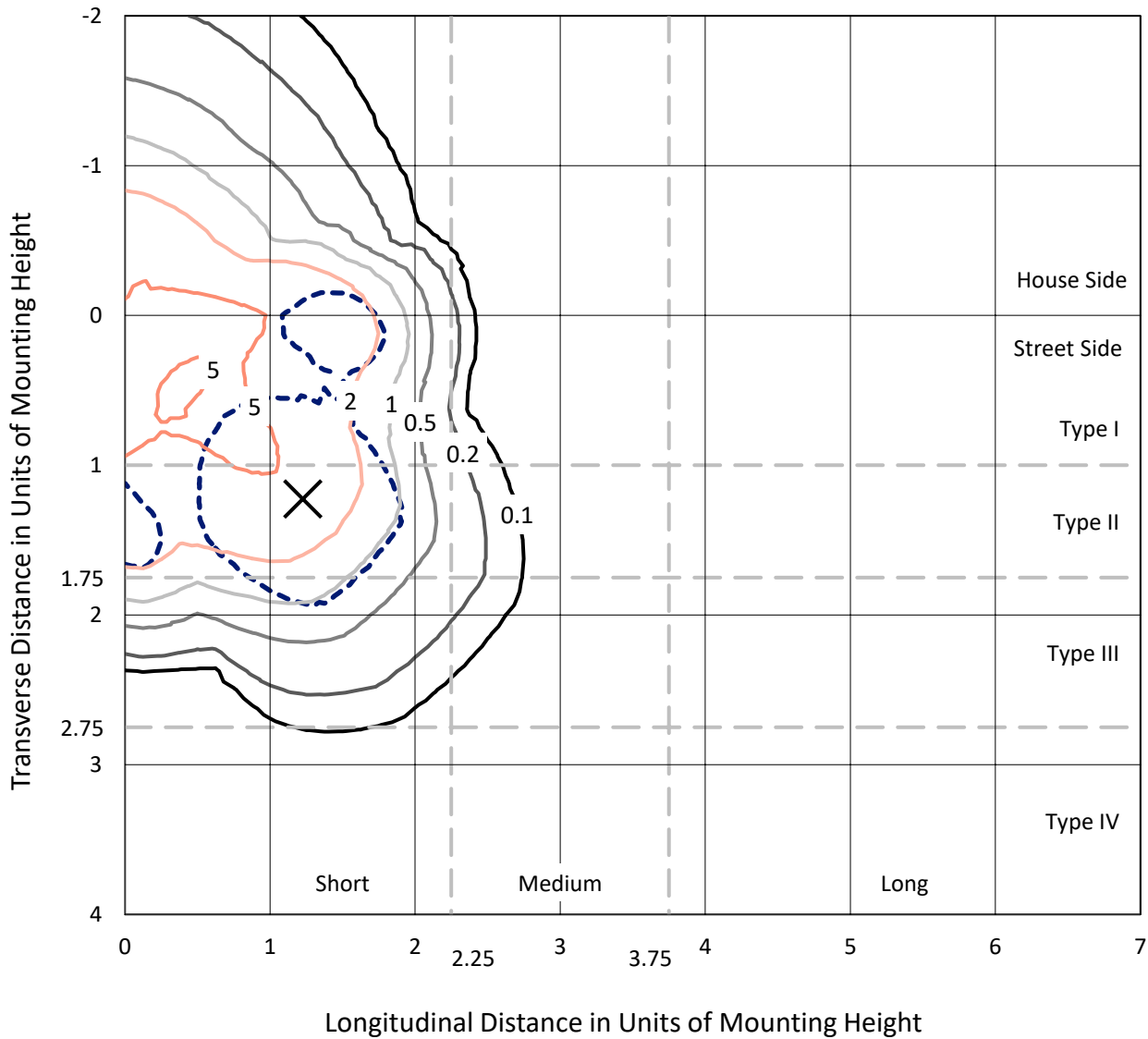
Lumens per Lamp: N/A  
Luminaire Lumens: 17312.8 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

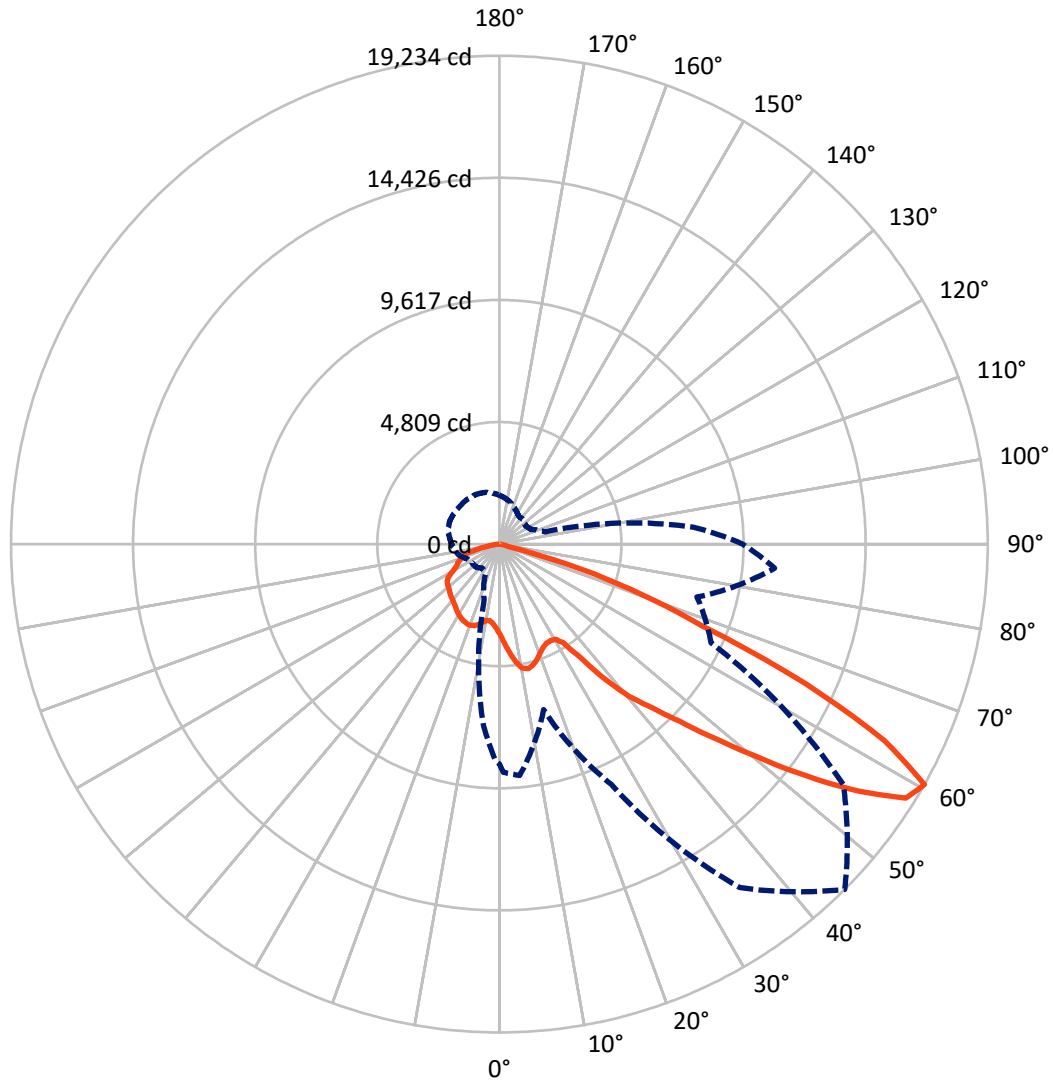
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6068.8	0.0	6068.8
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	11244.0	0.0	11244.0
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	17312.8	0.0	17312.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.0	2.0
10°-20°	1096.5	6.3
20°-30°	1781.2	10.3
30°-40°	2512.0	14.5
40°-50°	3471.5	20.1
50°-60°	4468.8	25.8
60°-70°	2831.5	16.4
70°-80°	726.6	4.2
80°-90°	77.7	0.4
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°	17312.8	100.0
0°-180°	17312.8	100.0

**Coefficient of Utilization**



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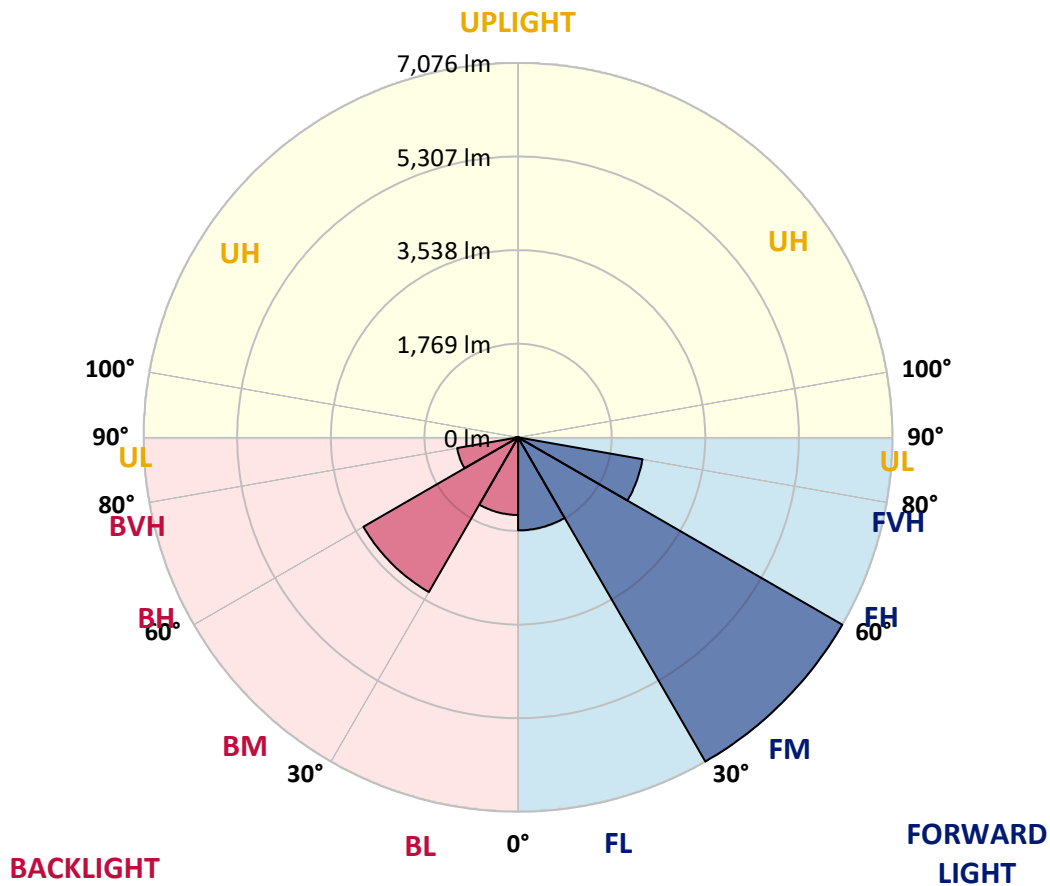
CATALOG NUMBER: GWS-SA5D-722-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.9	10.2			
FM (30°-60°)	7076.5	40.9			
FH (60°-80°)	2388.6	13.8			G2/5000
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1466.8	8.5	B3/2500		
BM (30°-60°)	3375.9	19.5	B3/5000		
BH (60°-80°)	1169.5	6.8	B3/2500		G3/2500
BVH (80°-90°)	56.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6
2.5°	3719.9	3745.3	3761.2	3791.3	3845.3	3875.4	3908.7	3872.2	3881.8	3877.0	3818.3
5°	3940.4	3970.6	4011.8	4100.7	4200.6	4256.1	4308.5	4300.5	4251.4	4168.9	4110.2
7.5°	4146.7	4181.6	4253.0	4397.3	4544.8	4630.5	4694.0	4652.7	4611.5	4481.4	4333.9
10°	4308.5	4329.1	4425.9	4619.4	4790.7	4887.5	4965.2	4955.7	4898.6	4752.7	4554.4
12.5°	4460.8	4475.0	4579.7	4773.3	4927.1	4970.0	5033.4	5054.1	5035.0	4925.6	4730.4
15°	4624.2	4651.1	4747.9	4895.4	4965.2	4920.8	4943.0	5000.1	5054.1	5054.1	4874.8
17.5°	4776.4	4800.2	4898.6	4962.0	4895.4	4778.0	4784.4	4857.3	4985.8	5120.7	5006.5
20°	4911.3	4933.5	5030.3	4970.0	4759.0	4587.7	4582.9	4671.7	4879.6	5163.5	5147.6
22.5°	5058.8	5090.5	5171.4	4976.3	4632.1	4414.8	4413.2	4505.2	4786.0	5206.3	5309.5
25°	5268.2	5317.4	5358.6	5031.8	4563.9	4302.1	4322.8	4410.0	4755.8	5276.1	5549.0
27.5°	5579.1	5618.8	5615.6	5147.6	4560.7	4256.1	4299.0	4400.5	4809.8	5399.9	5801.2
30°	5915.4	5936.1	5902.7	5309.5	4633.7	4284.7	4348.1	4468.7	4946.2	5604.5	6172.4
32.5°	6288.2	6313.6	6250.1	5552.2	4803.4	4495.7	4635.3	4694.0	5138.1	5899.6	6565.8
35°	6716.5	6765.7	6634.0	5872.6	5303.1	5265.0	5468.1	5391.9	5545.8	6248.6	6986.2
37.5°	7167.0	7168.6	6979.9	6346.9	6283.5	6348.5	6754.6	6516.7	6410.4	6637.2	7414.5
40°	7549.4	7539.8	7249.5	6986.2	7136.9	7395.5	7885.7	7520.8	7241.6	7159.1	7769.9
42.5°	7931.7	7896.8	7603.3	7392.3	7725.4	8256.9	8810.5	8363.1	7774.6	7633.4	8120.4
45°	8420.3	8409.1	8055.4	7554.1	8256.9	9221.3	9955.8	9230.9	8090.3	7909.5	8704.2
47.5°	9208.7	9154.7	8496.4	7541.4	8755.0	10506.3	11434.3	10323.8	8310.8	7915.8	9646.5
50°	9979.6	9913.0	9023.1	7539.8	9268.9	11838.8	13179.2	11651.6	8536.1	7953.9	10604.6
52.5°	10758.5	10758.5	9887.6	7719.1	9808.3	13326.8	15195.5	13306.2	8919.9	8452.0	11783.3
55°	11221.7	11345.4	10860.0	8022.1	10439.7	15078.1	17189.5	15092.4	9513.2	9351.4	12871.5
57.5°	10633.2	10864.8	10795.0	7811.1	10812.4	16364.6	18880.5	16447.1	9806.7	9457.7	12708.1
60°	8664.5	8986.6	9146.8	6745.1	10444.4	16513.7	19234.3	16535.9	9200.7	8053.8	10885.4
62.5°	5760.0	6024.9	6269.2	4819.3	9042.1	14856.0	17011.8	14860.8	7684.2	6010.6	7541.4
65°	2825.3	3022.0	3285.3	2849.1	7063.9	12413.0	13263.3	12008.5	5558.5	3364.6	3846.9
67.5°	739.2	794.8	831.2	1105.7	5060.4	8918.4	8650.3	8783.5	3570.8	1099.3	1005.7
70°	383.9	387.1	385.5	456.9	3420.1	5668.0	5961.4	5515.7	2492.1	460.0	396.6
72.5°	274.4	276.0	271.3	307.7	1651.4	3247.2	3364.6	3328.1	1305.6	272.8	271.3
75°	179.3	180.8	177.7	180.8	249.1	369.6	341.1	358.5	217.3	172.9	172.9
77.5°	106.3	107.9	106.3	109.5	106.3	106.3	98.4	98.4	93.6	93.6	95.2
80°	71.4	71.4	69.8	73.0	66.6	66.6	63.5	61.9	57.1	55.5	55.5
82.5°	42.8	44.4	42.8	42.8	39.7	39.7	36.5	34.9	30.1	30.1	28.6
85°	22.2	22.2	20.6	20.6	17.4	15.9	12.7	12.7	9.5	7.9	7.9
87.5°	3.2	3.2	1.6	1.6	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°	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6
2.5°	3802.4	3770.7	3723.1	3677.1	3634.3	3589.9	3539.1	3486.8	3442.3	3396.3	3372.5
5°	4032.5	3967.4	3843.7	3734.2	3635.9	3555.0	3467.7	3393.2	3323.4	3266.3	3237.7
7.5°	4240.3	4138.7	3951.6	3778.6	3645.4	3534.3	3413.8	3302.7	3209.1	3139.4	3112.4
10°	4432.2	4311.7	4065.8	3846.9	3691.4	3567.7	3420.1	3269.4	3145.7	3053.7	3031.5
12.5°	4587.7	4449.7	4156.2	3902.4	3718.4	3585.1	3455.0	3325.0	3202.8	3083.8	3064.8
15°	4725.7	4562.3	4224.4	3937.3	3708.8	3539.1	3429.6	3413.8	3413.8	3278.9	3240.9
17.5°	4844.7	4665.4	4279.9	3953.1	3648.6	3402.7	3336.1	3474.1	3629.5	3532.8	3447.1
20°	4981.1	4763.8	4325.9	3953.1	3537.5	3229.8	3223.4	3458.2	3688.2	3689.8	3599.4
22.5°	5119.1	4878.0	4379.9	3938.9	3385.2	3029.9	3147.3	3394.8	3599.4	3686.6	3624.8
25°	5342.8	5036.6	4465.5	3927.8	3207.6	2893.5	3079.1	3310.7	3483.6	3575.6	3535.9
27.5°	5626.7	5246.0	4595.6	3945.2	3031.5	2812.6	3006.1	3201.2	3358.3	3439.2	3410.6
30°	5944.0	5487.1	4735.2	3975.3	2904.6	2771.3	2918.9	3075.9	3215.5	3296.4	3283.7
32.5°	6348.5	5748.9	4855.8	3934.1	2833.2	2750.7	2826.8	2939.5	3074.3	3125.1	3136.2
35°	6832.3	6037.6	4947.8	3772.3	2768.1	2728.5	2726.9	2796.7	2891.9	2972.8	2980.7
37.5°	7278.1	6375.5	5049.3	3494.7	2650.8	2673.0	2609.5	2650.8	2744.4	2825.3	2857.0
40°	7719.1	6718.1	5190.5	3140.9	2496.9	2549.2	2474.7	2503.2	2577.8	2684.1	2734.8
42.5°	8147.4	7027.5	5339.6	2779.3	2343.0	2376.3	2320.8	2349.4	2427.1	2560.3	2617.4
45°	8613.8	7446.2	5455.4	2438.2	2209.8	2195.5	2151.1	2192.3	2309.7	2455.6	2523.9
47.5°	9495.8	8106.2	5531.5	2211.3	2138.4	2035.3	1984.5	2073.3	2206.6	2354.1	2436.6
50°	10572.9	9061.1	5509.3	2067.0	2076.5	1870.3	1852.8	1970.2	2113.0	2266.9	2357.3
52.5°	11426.4	9998.7	5257.1	1929.0	1955.9	1765.6	1714.8	1886.1	2022.6	2179.6	2273.2
55°	12078.3	10314.3	4483.0	1765.6	1759.2	1689.4	1583.2	1798.9	1932.2	2078.1	2179.6
57.5°	11546.9	9611.6	3323.4	1540.3	1502.3	1538.7	1435.6	1651.4	1821.1	1965.5	2055.9
60°	9583.0	7663.6	1851.2	1364.2	1256.4	1345.2	1329.3	1495.9	1700.5	1852.8	1930.6
62.5°	6505.5	5103.2	1097.7	1078.7	1018.4	1145.3	1229.4	1338.9	1540.3	1664.1	1737.0
65°	3242.5	2479.4	729.7	807.4	815.4	942.3	1100.9	1221.5	1389.6	1516.5	1589.5
67.5°	940.7	771.0	555.2	617.1	702.7	804.3	931.2	1073.9	1237.3	1388.0	1473.7
70°	406.1	410.9	441.0	514.0	598.0	702.7	829.7	969.2	1107.3	1223.1	1288.1
72.5°	287.1	298.2	331.5	406.1	485.4	585.4	712.3	847.1	947.0	1064.4	1132.6
75°	184.0	191.9	218.9	276.0	334.7	431.5	552.0	675.8	778.9	863.0	928.0
77.5°	101.5	103.1	125.3	158.6	198.3	260.2	349.0	445.8	521.9	569.5	628.2
80°	58.7	58.7	69.8	90.4	114.2	152.3	201.5	249.1	295.1	325.2	353.8
82.5°	31.7	31.7	36.5	49.2	61.9	84.1	112.6	136.4	165.0	180.8	199.9
85°	9.5	9.5	12.7	17.4	22.2	31.7	44.4	57.1	69.8	80.9	92.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6
2.5°	3367.8	3345.6	3332.9	3317.0	3321.8	3307.5	3299.6	3304.3	3275.8	3304.3	3332.9
5°	3226.6	3194.9	3169.5	3148.9	3139.4	3120.3	3109.2	3109.2	3091.8	3120.3	3155.2
7.5°	3102.9	3077.5	3064.8	3052.1	3037.8	3020.4	3001.3	2995.0	2983.9	3014.0	3044.2
10°	3020.4	3023.5	3031.5	3048.9	3045.8	3034.7	3006.1	2990.2	2990.2	3025.1	3071.1
12.5°	3058.4	3091.8	3110.8	3142.5	3148.9	3139.4	3110.8	3098.1	3129.8	3182.2	3258.3
15°	3206.0	3228.2	3244.0	3269.4	3267.8	3259.9	3237.7	3247.2	3351.9	3453.4	3521.7
17.5°	3366.2	3340.8	3337.6	3353.5	3358.3	3348.7	3336.1	3378.9	3551.8	3647.0	3681.9
20°	3482.0	3394.8	3375.7	3382.1	3394.8	3390.0	3390.0	3459.8	3639.0	3683.5	3639.0
22.5°	3516.9	3393.2	3364.6	3366.2	3383.6	3385.2	3393.2	3466.1	3570.8	3572.4	3504.2
25°	3461.4	3342.4	3321.8	3325.0	3345.6	3344.0	3347.2	3388.4	3434.4	3415.4	3364.6
27.5°	3356.7	3253.6	3247.2	3264.7	3291.6	3277.4	3267.8	3278.9	3301.2	3277.4	3232.9
30°	3237.7	3150.5	3153.6	3186.9	3215.5	3191.7	3167.9	3174.3	3175.8	3150.5	3099.7
32.5°	3112.4	3047.3	3058.4	3093.3	3126.7	3101.3	3075.9	3072.7	3042.6	3012.4	2963.3
35°	2987.1	2961.7	2976.0	3004.5	3033.1	3012.4	2996.6	2987.1	2922.0	2877.6	2836.4
37.5°	2872.8	2891.9	2917.3	2934.7	2944.2	2942.6	2933.1	2910.9	2825.3	2772.9	2719.0
40°	2771.3	2830.0	2857.0	2864.9	2879.2	2876.0	2874.4	2842.7	2730.1	2674.6	2612.7
42.5°	2679.3	2761.8	2807.8	2815.7	2823.7	2825.3	2820.5	2774.5	2646.0	2581.0	2522.3
45°	2590.5	2698.4	2757.0	2749.1	2760.2	2760.2	2765.0	2704.7	2563.5	2496.9	2435.0
47.5°	2512.8	2639.7	2693.6	2684.1	2690.4	2695.2	2699.9	2630.1	2473.1	2409.6	2346.2
50°	2441.4	2576.2	2622.2	2625.4	2625.4	2636.5	2634.9	2566.7	2396.9	2328.7	2265.3
52.5°	2365.2	2511.2	2560.3	2581.0	2587.3	2592.1	2569.9	2490.5	2319.2	2236.7	2178.0
55°	2276.4	2444.5	2489.0	2515.9	2528.6	2525.4	2495.3	2414.4	2239.9	2157.4	2090.8
57.5°	2141.5	2301.8	2365.2	2377.9	2398.5	2385.8	2350.9	2282.7	2113.0	2030.5	1962.3
60°	1994.0	2109.8	2160.6	2171.7	2155.8	2160.6	2155.8	2090.8	1943.3	1878.2	1808.4
62.5°	1800.5	1903.6	1957.5	1971.8	1944.8	1962.3	1955.9	1875.0	1727.5	1659.3	1597.4
65°	1654.5	1767.2	1830.6	1838.6	1830.6	1838.6	1816.4	1718.0	1578.4	1508.6	1445.1
67.5°	1540.3	1656.1	1722.8	1745.0	1737.0	1735.4	1700.5	1586.3	1442.0	1365.8	1284.9
70°	1343.6	1445.1	1530.8	1584.7	1584.7	1554.6	1488.0	1381.7	1265.9	1200.9	1137.4
72.5°	1189.7	1318.2	1402.3	1457.8	1468.9	1451.5	1357.9	1245.3	1112.0	1047.0	980.4
75°	980.4	1105.7	1196.1	1269.1	1283.3	1264.3	1156.4	1045.4	921.7	858.2	791.6
77.5°	655.2	729.7	802.7	869.3	855.0	867.7	794.8	710.7	634.5	586.9	556.8
80°	369.6	418.8	441.0	477.5	477.5	477.5	429.9	390.2	347.4	320.4	290.3
82.5°	209.4	241.1	250.6	280.8	288.7	290.3	258.6	233.2	206.2	191.9	171.3
85°	96.8	114.2	115.8	133.3	139.6	152.3	138.0	120.6	104.7	98.4	85.7
87.5°	3.2	9.5	12.7	23.8	31.7	36.5	39.7	39.7	33.3	30.1	25.4
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°	359°	360°
0°	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6
2.5°	3367.8	3405.9	3450.3	3482.0	3539.1	3586.7	3635.9	3689.8	3729.5	3719.9
5°	3198.0	3261.5	3342.4	3417.0	3523.2	3631.1	3750.1	3872.2	3943.6	3940.4
7.5°	3102.9	3193.3	3291.6	3391.6	3516.9	3672.4	3854.8	4045.1	4141.9	4146.7
10°	3153.6	3250.4	3317.0	3401.1	3532.8	3727.9	3946.8	4175.2	4286.3	4308.5
12.5°	3313.8	3305.9	3301.2	3361.4	3520.1	3767.5	4035.6	4308.5	4433.8	4460.8
15°	3466.1	3302.7	3204.4	3245.6	3463.0	3792.9	4122.9	4454.4	4595.6	4624.2
17.5°	3494.7	3247.2	3064.8	3093.3	3372.5	3800.9	4207.0	4597.2	4749.5	4776.4
20°	3415.4	3175.8	2963.3	2923.6	3258.3	3780.2	4259.3	4716.2	4882.7	4911.3
22.5°	3315.4	3112.4	2887.1	2784.0	3118.7	3759.6	4318.0	4841.5	5033.4	5058.8
25°	3210.7	3031.5	2815.7	2658.7	2960.1	3746.9	4416.3	5006.5	5238.1	5268.2
27.5°	3099.7	2933.1	2753.9	2598.4	2814.2	3762.8	4555.9	5273.0	5536.3	5579.1
30°	2980.7	2834.8	2714.2	2577.8	2714.2	3777.1	4709.8	5545.8	5855.2	5915.4
32.5°	2857.0	2744.4	2673.0	2587.3	2652.3	3743.7	4844.7	5852.0	6235.9	6288.2
35°	2733.3	2652.3	2620.6	2604.8	2569.9	3621.6	4954.1	6161.3	6670.5	6716.5
37.5°	2617.4	2557.2	2547.6	2565.1	2443.0	3421.7	5081.0	6554.7	7097.2	7167.0
40°	2509.6	2454.1	2452.5	2449.3	2303.4	3148.9	5252.3	6954.5	7517.6	7549.4
42.5°	2409.6	2339.8	2352.5	2314.5	2189.1	2853.8	5414.2	7295.5	7909.5	7931.7
45°	2320.8	2228.8	2243.1	2195.5	2135.2	2544.5	5556.9	7698.5	8406.0	8420.3
47.5°	2235.1	2136.8	2097.1	2094.0	2125.7	2258.9	5696.5	8474.2	9183.3	9208.7
50°	2155.8	2049.5	1936.9	2006.7	2067.0	2044.8	5871.0	9305.4	9986.0	9979.6
52.5°	2079.7	1940.1	1779.9	1914.7	1914.7	1886.1	5821.8	9809.9	10649.0	10758.5
55°	1992.4	1764.0	1616.5	1760.8	1691.0	1743.4	4950.9	9974.9	11066.3	11221.7
57.5°	1819.5	1546.7	1418.2	1495.9	1391.2	1616.5	3556.6	9156.3	10357.2	10633.2
60°	1653.0	1386.5	1302.4	1288.1	1151.7	1318.2	2304.9	7168.6	8524.9	8664.5
62.5°	1457.8	1248.4	1177.1	1067.6	926.4	959.7	1396.0	4717.8	5728.2	5760.0
65°	1310.3	1131.1	994.6	864.6	758.3	696.4	824.9	2274.8	2863.3	2825.3
67.5°	1124.7	969.2	839.2	745.6	658.3	580.6	548.9	675.8	764.6	739.2
70°	1001.0	851.9	726.5	637.7	556.8	479.1	423.6	398.2	390.2	383.9
72.5°	863.0	732.9	602.8	517.1	441.0	369.6	318.9	288.7	280.8	274.4
75°	688.5	566.3	447.3	366.4	299.8	249.1	215.7	190.4	185.6	179.3
77.5°	455.3	363.3	266.5	217.3	177.7	150.7	128.5	112.6	109.5	106.3
80°	250.6	209.4	163.4	131.7	106.3	92.0	84.1	74.6	73.0	71.4
82.5°	149.1	125.3	93.6	74.6	61.9	55.5	50.8	46.0	44.4	42.8
85°	74.6	58.7	41.2	34.9	31.7	28.6	28.6	23.8	22.2	22.2
87.5°	19.0	15.9	9.5	7.9	7.9	7.9	6.3	4.8	4.8	3.2
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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