

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: P641181

Luminaire Tested: GWS-SA5F-735-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-735-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

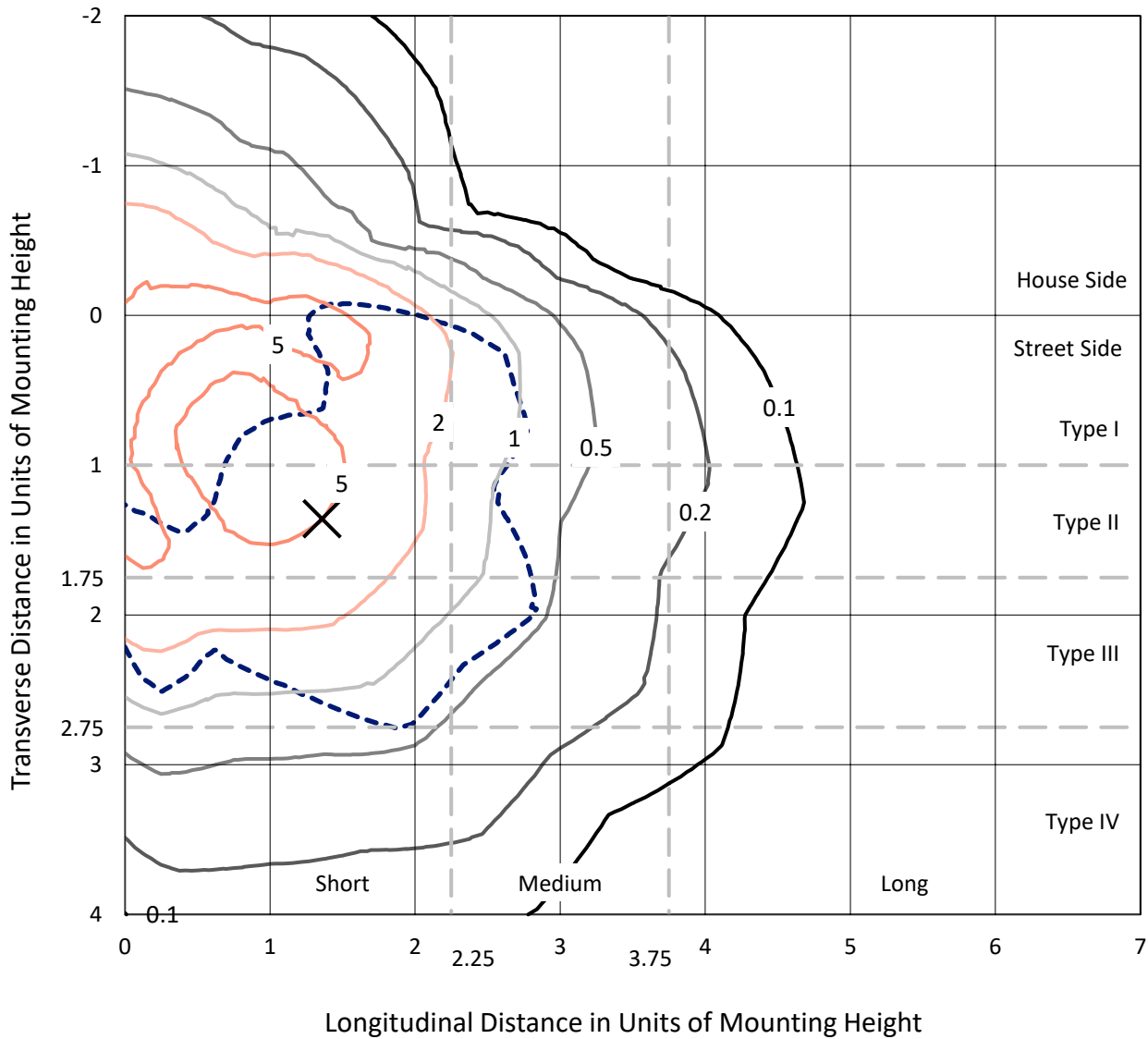
Lumens per Lamp: N/A  
Luminaire Lumens: 38978.1 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

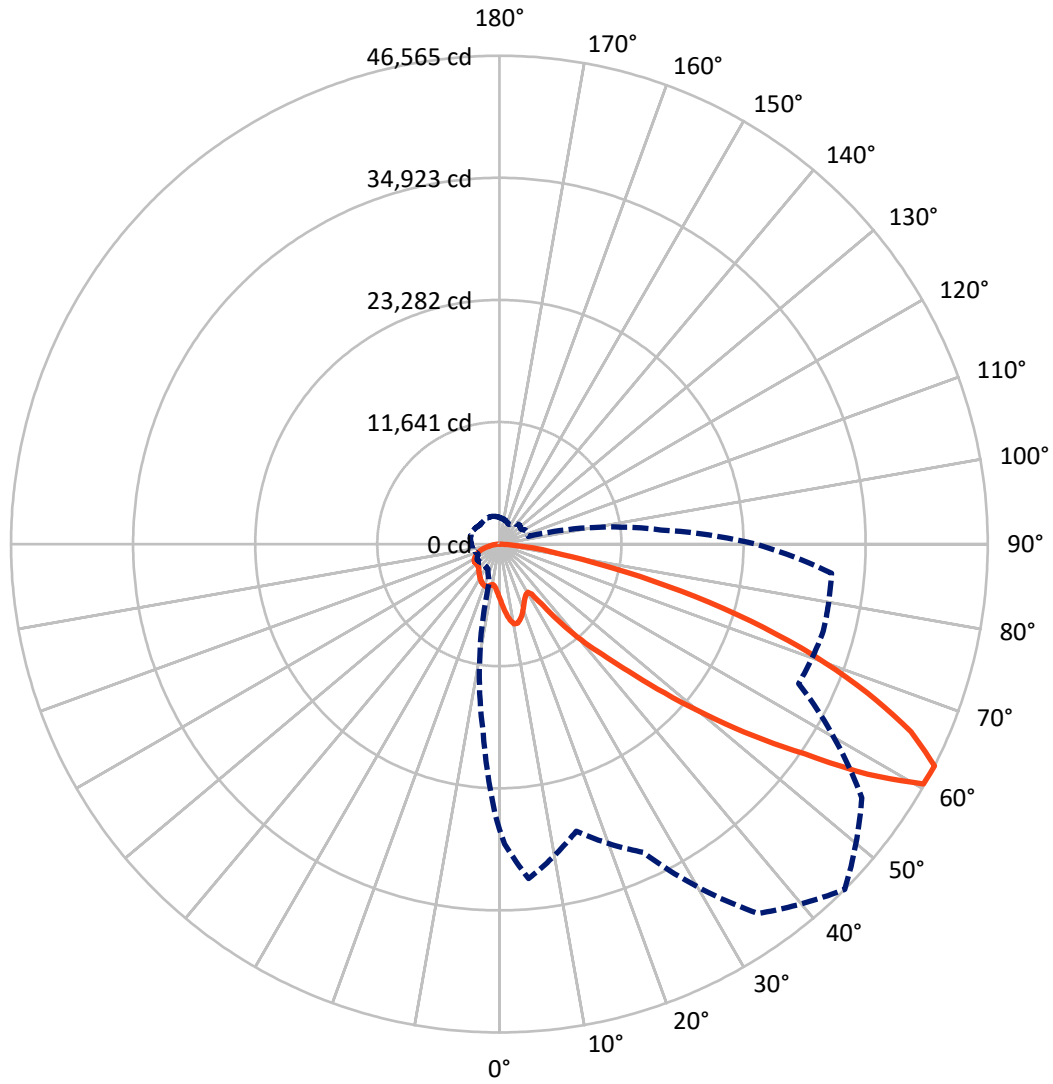
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - 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	9300.9	0.0	9300.9
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	29677.2	0.0	29677.2
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	38978.1	0.0	38978.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.2	1.3
10°-20°	1583.8	4.1
20°-30°	2460.0	6.3
30°-40°	3340.0	8.6
40°-50°	5293.7	13.6
50°-60°	9338.0	24.0
60°-70°	10390.0	26.7
70°-80°	5269.4	13.5
80°-90°	797.9	2.0
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°	38978.1	100.0
0°-180°	38978.1	100.0

**Coefficient of Utilization**



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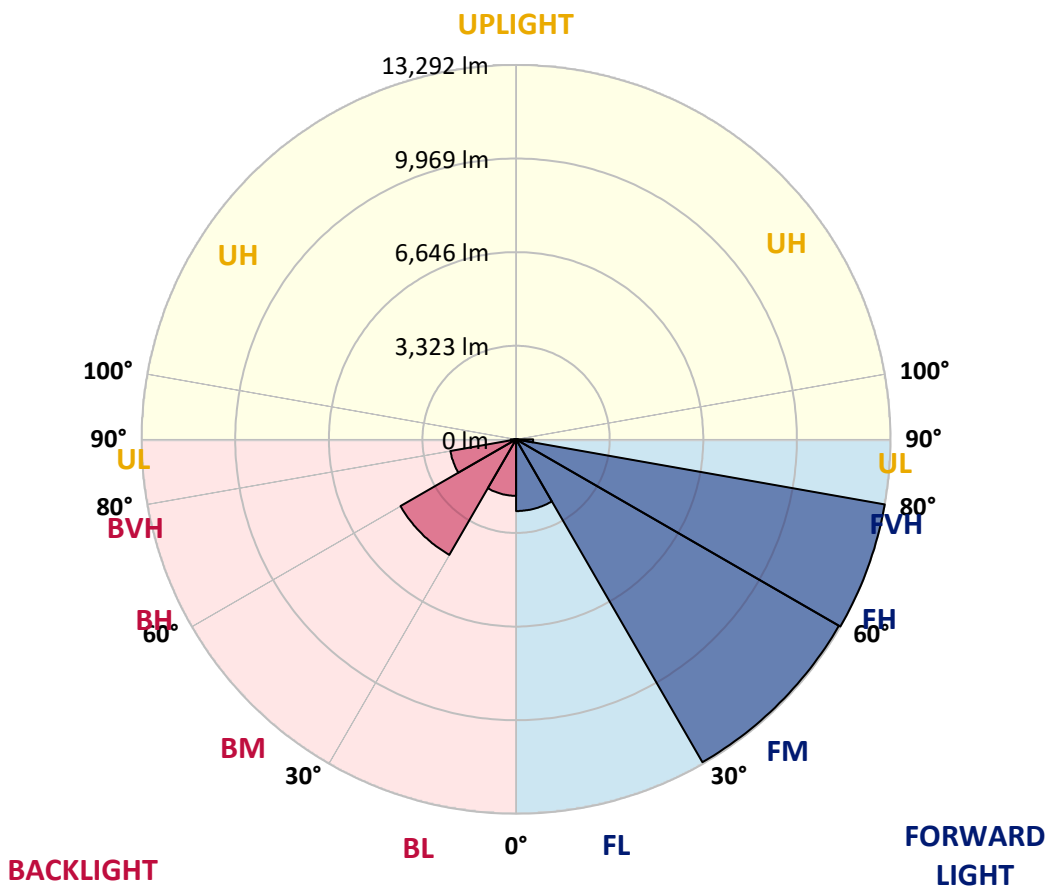
CATALOG NUMBER: GWS-SA5F-735-U-SLR-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.9	6.5			
FM (30°-60°)	13234.7	34.0			
FH (60°-80°)	13291.9	34.1			G5
FVH (80°-90°)	605.6	1.6			G4/750
BL (0°-30°)	2004.1	5.1	B3/2500		
BM (30°-60°)	4737.0	12.2	B3/5000		
BH (60°-80°)	2367.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	192.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2
2.5°	5559.8	5556.8	5612.9	5698.5	5778.2	5813.6	5872.6	5866.7	5819.5	5757.5	5736.8
5°	5996.5	6008.3	6105.7	6294.6	6504.1	6592.6	6631.0	6616.3	6530.7	6421.5	6229.7
7.5°	6392.0	6412.6	6563.1	6846.4	7106.1	7224.2	7318.6	7300.9	7177.0	6973.3	6690.0
10°	6681.2	6704.8	6884.8	7218.3	7507.5	7610.8	7731.7	7737.7	7628.5	7354.0	7064.8
12.5°	6970.4	6994.0	7162.2	7466.2	7655.0	7658.0	7728.8	7767.2	7773.1	7646.2	7357.0
15°	7271.4	7292.0	7445.5	7616.7	7607.8	7442.5	7442.5	7516.3	7678.6	7770.1	7569.4
17.5°	7528.1	7554.7	7672.7	7616.7	7354.0	7056.0	7020.5	7115.0	7398.3	7749.5	7728.8
20°	7740.6	7761.3	7826.2	7454.4	6976.3	6586.7	6518.9	6628.1	7011.7	7622.6	7849.8
22.5°	7944.2	7956.0	7920.6	7241.9	6569.0	6123.4	6040.8	6155.9	6569.0	7398.3	7953.1
25°	8186.2	8174.4	8006.2	7020.5	6197.2	5757.5	5671.9	5801.8	6232.6	7100.2	8065.2
27.5°	8466.6	8422.3	8080.0	6781.5	5911.0	5486.0	5427.0	5565.7	5967.0	6825.8	8153.7
30°	8705.6	8620.0	8091.8	6569.0	5763.4	5370.9	5335.5	5465.3	5837.2	6639.9	8265.9
32.5°	8971.2	8853.1	8159.7	6513.0	5846.0	5648.3	5695.5	5704.4	5872.6	6586.7	8434.1
35°	9351.9	9198.4	8345.6	6675.3	6695.9	7029.4	7200.6	6970.4	6406.7	6704.8	8752.8
37.5°	9927.3	9732.6	8723.3	7377.6	8451.8	9198.4	9611.6	9086.3	8029.8	7150.4	9233.8
40°	10626.7	10378.8	9207.3	8676.1	10092.6	11287.8	12022.6	11252.4	9700.1	8262.9	9909.6
42.5°	11603.5	11343.8	10145.7	9950.9	11612.4	13391.9	14351.0	13203.0	11172.7	9700.1	10992.7
45°	13306.3	13055.4	11866.2	11228.7	13391.9	15982.9	17328.6	15732.0	12668.9	11143.2	13017.1
47.5°	16452.1	16157.0	14421.8	12645.2	15422.2	19347.1	21229.9	18904.4	14224.1	12795.8	16416.7
50°	20229.4	19946.1	17629.6	14321.4	17665.0	22944.4	25562.0	22631.6	16015.3	14805.4	20480.3
52.5°	24774.1	24720.9	22206.6	16440.3	19999.3	26780.8	30369.3	26760.1	17977.8	17511.5	25083.9
55°	28870.1	29389.5	28020.2	19671.7	23015.2	31599.8	35312.3	31263.4	20639.6	21985.3	30475.5
57.5°	31077.5	32473.3	34577.4	26264.3	27400.5	37360.3	41412.1	36761.2	25213.8	29433.8	35474.6
60°	29619.7	31201.4	35014.2	31228.0	31750.3	41975.7	46446.6	41382.6	29705.3	34604.0	35191.3
62.5°	27193.9	28613.4	32004.1	28330.1	32423.2	42990.9	46564.6	42188.2	31490.6	31980.5	31788.7
65°	24316.6	25747.9	29339.3	24729.8	30283.7	40579.9	43129.6	39818.5	28282.9	28893.7	28964.6
67.5°	20495.0	21817.1	25473.5	21988.3	27604.1	37041.6	37856.1	36442.5	26046.0	27019.8	26001.7
70°	15313.0	16505.2	19733.7	17868.6	23269.0	32432.0	31774.0	31983.5	23534.6	24502.6	21719.7
72.5°	10464.4	11361.5	14129.6	14041.1	17818.4	25963.3	25045.6	27031.6	19656.9	20940.6	16558.3
75°	7318.6	8018.0	10213.6	11093.0	13468.6	19243.8	17836.1	20232.4	15351.4	17184.0	12081.6
77.5°	4491.5	4954.8	6451.0	8218.7	8664.3	13170.5	11078.2	15224.5	10780.2	12533.1	8059.3
80°	2245.7	2470.0	3134.0	5167.3	5745.7	7761.3	6117.5	8838.4	7295.0	7761.3	4459.0
82.5°	678.7	749.6	917.8	1962.4	2977.6	4467.9	3615.0	5134.8	3983.9	3638.6	1755.9
85°	180.0	203.6	253.8	581.4	1044.7	1602.4	1221.7	2487.7	1909.3	1342.7	661.0
87.5°	14.8	14.8	11.8	11.8	5.9	0.0	0.0	177.1	357.1	203.6	115.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2
2.5°	5633.6	5621.7	5500.8	5412.2	5308.9	5208.6	5105.3	5013.8	4910.5	4807.3	4777.7
5°	6088.0	6005.4	5748.6	5533.2	5320.7	5134.8	4972.5	4804.3	4668.6	4535.8	4485.6
7.5°	6489.4	6344.8	5972.9	5645.4	5350.3	5120.1	4881.0	4636.1	4444.3	4255.4	4208.2
10°	6852.3	6660.5	6191.3	5778.2	5450.6	5187.9	4907.6	4580.0	4302.6	4072.4	4010.5
12.5°	7120.9	6911.4	6380.2	5905.1	5533.2	5238.1	4960.7	4671.5	4379.4	4081.3	4013.4
15°	7333.4	7115.0	6536.6	6002.4	5536.2	5155.5	4886.9	4786.6	4695.1	4403.0	4279.0
17.5°	7504.5	7274.3	6672.3	6061.5	5456.5	4904.6	4671.5	4819.1	5052.2	4869.2	4636.1
20°	7660.9	7427.8	6775.6	6102.8	5279.4	4559.4	4429.5	4742.3	5093.5	5087.6	4878.1
22.5°	7832.1	7604.9	6926.1	6126.4	5031.5	4208.2	4284.9	4630.2	4916.4	5002.0	4872.2
25°	8050.5	7849.8	7135.6	6179.5	4751.2	3966.2	4178.7	4485.6	4724.6	4745.3	4668.6
27.5°	8304.3	8153.7	7448.4	6303.4	4479.7	3842.3	4054.7	4282.0	4500.4	4509.2	4417.7
30°	8581.7	8481.3	7737.7	6406.7	4276.1	3803.9	3895.4	4078.4	4217.0	4240.7	4161.0
32.5°	8935.8	8847.2	7994.4	6338.9	4155.1	3795.0	3747.8	3842.3	3957.4	3957.4	3895.4
35°	9422.7	9298.8	8265.9	6079.2	4007.5	3759.6	3591.4	3618.0	3668.2	3677.0	3641.6
37.5°	10113.2	9909.6	8540.3	5565.7	3765.5	3632.7	3411.4	3379.0	3396.7	3420.3	3411.4
40°	10969.1	10635.6	8941.7	4948.9	3476.3	3387.8	3225.5	3163.5	3148.8	3196.0	3213.7
42.5°	12046.2	11535.7	9372.5	4373.5	3213.7	3107.5	3007.1	2954.0	2930.4	3010.1	3057.3
45°	13766.6	12925.6	9785.7	3803.9	3066.1	2868.4	2800.5	2762.2	2774.0	2868.4	2927.4
47.5°	16738.4	15047.4	10178.2	3443.9	3054.3	2697.3	2614.6	2623.5	2655.9	2756.3	2827.1
50°	20498.0	17889.3	10440.8	3293.4	3089.7	2594.0	2484.8	2532.0	2582.2	2679.6	2762.2
52.5°	24325.5	20536.4	10128.0	3210.7	3086.8	2596.9	2363.8	2505.4	2529.0	2626.4	2715.0
55°	26957.8	20831.5	8749.9	3083.8	3039.6	2715.0	2269.4	2493.6	2508.4	2596.9	2676.6
57.5°	27961.2	19822.2	6672.3	3119.3	2897.9	2806.4	2228.0	2411.0	2517.2	2594.0	2676.6
60°	26748.3	17918.8	4054.7	3210.7	2670.7	2800.5	2254.6	2260.5	2443.5	2573.3	2655.9
62.5°	24461.2	15475.3	2847.8	2951.0	2505.4	2644.1	2316.6	2083.4	2313.6	2470.0	2543.8
65°	21840.7	12601.0	2172.0	2540.9	2425.8	2402.2	2337.2	1927.0	2136.6	2290.0	2354.9
67.5°	19111.0	9794.5	1764.7	1894.6	2192.6	2172.0	2136.6	1788.3	1927.0	2036.2	2110.0
70°	15673.0	6852.3	1490.3	1422.4	1879.8	1947.7	1868.0	1614.2	1658.5	1770.6	1829.7
72.5°	11464.8	4270.2	1224.7	1174.5	1510.9	1702.8	1661.4	1422.4	1443.1	1549.3	1596.5
75°	8245.2	2443.5	982.7	967.9	1153.9	1457.8	1375.2	1224.7	1248.3	1328.0	1360.4
77.5°	5241.1	1360.4	758.4	779.1	826.3	1088.9	1174.5	1047.6	1047.6	1094.8	1121.4
80°	2806.4	779.1	554.8	563.7	578.4	832.2	926.6	811.5	811.5	779.1	811.5
82.5°	1145.0	448.6	380.7	354.1	386.6	569.6	649.2	516.4	540.0	486.9	498.7
85°	377.7	224.3	188.9	185.9	183.0	250.8	312.8	256.7	306.9	194.8	203.6
87.5°	50.2	41.3	23.6	17.7	20.7	8.9	17.7	20.7	20.7	14.8	14.8
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°	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2
2.5°	4757.1	4733.5	4647.9	4668.6	4653.8	4630.2	4653.8	4609.5	4645.0	4656.8	4730.5
5°	4447.2	4391.2	4308.5	4267.2	4258.4	4234.8	4237.7	4217.0	4223.0	4273.1	4355.7
7.5°	4169.8	4116.7	4051.8	4022.3	3995.7	3969.2	3966.2	3963.3	3986.9	4031.1	4110.8
10°	3969.2	3939.7	3913.1	3924.9	3913.1	3901.3	3880.6	3880.6	3919.0	3998.7	4096.1
12.5°	3969.2	3963.3	3969.2	4004.6	4001.6	4004.6	3978.0	3992.8	4099.0	4234.8	4373.5
15°	4181.6	4134.4	4134.4	4152.1	4146.2	4146.2	4146.2	4208.2	4450.2	4659.7	4807.3
17.5°	4441.3	4302.6	4243.6	4234.8	4231.8	4231.8	4243.6	4376.4	4754.1	4975.5	5061.0
20°	4621.3	4358.7	4261.3	4223.0	4225.9	4231.8	4267.2	4450.2	4866.3	4978.4	4957.8
22.5°	4653.8	4314.4	4196.4	4140.3	4149.2	4155.1	4208.2	4403.0	4712.8	4730.5	4689.2
25°	4503.3	4190.5	4063.6	4019.3	4031.1	4028.2	4075.4	4217.0	4438.4	4432.5	4408.9
27.5°	4279.0	3992.8	3898.3	3868.8	3889.5	3865.9	3880.6	3989.8	4161.0	4155.1	4146.2
30°	4048.8	3801.0	3715.4	3700.6	3727.2	3691.8	3694.7	3786.2	3904.2	3898.3	3895.4
32.5°	3818.7	3609.1	3532.4	3532.4	3559.0	3520.6	3526.5	3606.2	3685.9	3662.3	3662.3
35°	3600.3	3452.7	3390.8	3379.0	3399.6	3373.0	3384.9	3458.6	3488.1	3455.7	3435.0
37.5°	3408.5	3343.5	3281.6	3240.3	3243.2	3246.2	3281.6	3337.6	3319.9	3272.7	3246.2
40°	3231.4	3231.4	3172.4	3095.7	3086.8	3107.5	3166.5	3228.4	3178.3	3125.2	3092.7
42.5°	3104.5	3131.1	3075.0	2998.3	2980.6	3016.0	3080.9	3125.2	3066.1	3007.1	2962.9
45°	2986.5	3051.4	3013.0	2927.4	2903.8	2945.1	3027.8	3045.5	2965.8	2909.7	2877.3
47.5°	2903.8	2992.4	2965.8	2883.2	2847.8	2906.8	2992.4	2989.4	2889.1	2830.1	2803.5
50°	2844.8	2957.0	2954.0	2883.2	2844.8	2918.6	2995.3	2957.0	2847.8	2785.8	2759.2
52.5°	2797.6	2954.0	2974.7	2933.3	2906.8	2971.7	3018.9	2945.1	2818.3	2753.3	2732.7
55°	2776.9	2965.8	2980.6	2942.2	2918.6	2977.6	3018.9	2968.8	2818.3	2759.2	2741.5
57.5°	2782.8	2951.0	2954.0	2900.9	2859.6	2933.3	2998.3	2983.5	2850.7	2782.8	2762.2
60°	2747.4	2871.4	2877.3	2794.6	2747.4	2836.0	2951.0	2942.2	2836.0	2765.1	2726.8
62.5°	2629.4	2738.6	2741.5	2664.8	2596.9	2723.8	2850.7	2847.8	2750.4	2679.6	2635.3
65°	2431.7	2546.8	2576.3	2502.5	2449.4	2585.1	2717.9	2712.0	2614.6	2549.7	2505.4
67.5°	2186.7	2310.7	2366.7	2316.6	2295.9	2419.9	2543.8	2540.9	2461.2	2399.2	2360.8
70°	1888.7	1992.0	2086.4	2086.4	2071.6	2213.3	2346.1	2334.3	2260.5	2213.3	2183.8
72.5°	1640.8	1720.5	1750.0	1779.5	1823.7	1971.3	2083.4	2092.3	2039.2	2015.6	2039.2
75°	1395.8	1446.0	1472.6	1449.0	1525.7	1679.1	1826.7	1841.5	1785.4	1747.0	1755.9
77.5°	1148.0	1204.0	1230.6	1177.5	1171.6	1366.3	1546.3	1578.8	1531.6	1472.6	1490.3
80°	829.2	903.0	947.3	911.9	900.1	985.7	1233.5	1269.0	1224.7	1177.5	1204.0
82.5°	507.6	548.9	560.7	596.1	669.9	705.3	793.8	911.9	879.4	838.1	911.9
85°	200.7	239.0	265.6	301.0	351.2	416.1	489.9	584.3	531.2	513.5	605.0
87.5°	11.8	3.0	0.0	5.9	50.2	97.4	209.5	289.2	242.0	259.7	312.8
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2	5173.2
2.5°	4789.6	4866.3	4969.6	5055.1	5164.3	5267.6	5373.9	5480.1	5536.2	5559.8
5°	4450.2	4591.8	4757.1	4940.1	5152.5	5376.8	5604.0	5837.2	5984.7	5996.5
7.5°	4246.6	4450.2	4677.4	4907.6	5170.2	5480.1	5840.1	6200.2	6350.7	6392.0
10°	4311.5	4538.7	4718.7	4934.2	5223.4	5609.9	6034.9	6456.9	6631.0	6681.2
12.5°	4571.2	4615.4	4671.5	4869.2	5223.4	5722.1	6235.6	6737.2	6923.2	6970.4
15°	4786.6	4574.1	4473.8	4683.3	5152.5	5819.5	6448.0	7002.8	7227.1	7271.4
17.5°	4804.3	4438.4	4220.0	4408.9	5028.6	5887.3	6651.7	7297.9	7486.8	7528.1
20°	4624.3	4293.8	4010.5	4125.6	4860.4	5916.9	6799.2	7513.4	7699.3	7740.6
22.5°	4420.7	4175.7	3868.8	3862.9	4656.8	5949.3	6976.3	7717.0	7917.7	7944.2
25°	4228.9	4013.4	3753.7	3671.1	4420.7	6011.3	7215.3	8023.9	8177.4	8186.2
27.5°	4004.6	3839.3	3662.3	3582.6	4214.1	6129.3	7569.4	8389.8	8481.3	8466.6
30°	3801.0	3677.0	3597.3	3573.7	4084.3	6217.9	7905.9	8749.9	8755.8	8705.6
32.5°	3585.5	3538.3	3538.3	3615.0	3978.0	6197.2	8180.3	9101.0	9045.0	8971.2
35°	3393.7	3402.6	3464.5	3644.5	3801.0	5990.6	8443.0	9540.7	9458.1	9351.9
37.5°	3210.7	3278.6	3367.1	3541.3	3567.8	5683.7	8749.9	10163.4	10060.1	9927.3
40°	3054.3	3157.6	3260.9	3346.5	3319.9	5247.0	9177.8	10895.3	10780.2	10626.7
42.5°	2930.4	3030.7	3145.8	3154.7	3163.5	4792.5	9632.2	11792.4	11771.7	11603.5
45°	2850.7	2915.6	3024.8	3010.1	3154.7	4290.8	10051.3	13161.7	13433.2	13306.3
47.5°	2797.6	2847.8	2859.6	2921.5	3231.4	3842.3	10591.3	15841.2	16596.7	16452.1
50°	2768.1	2818.3	2685.5	2927.4	3243.2	3553.1	11337.9	19205.4	20421.3	20229.4
52.5°	2765.1	2753.3	2552.7	2989.4	3178.3	3376.0	11727.5	21660.7	24358.0	24774.1
55°	2771.0	2623.5	2484.8	3007.1	3048.4	3311.1	10423.1	22841.1	27990.7	28870.1
57.5°	2717.9	2481.8	2523.1	2936.3	2803.5	3485.2	7705.2	22419.1	29442.6	31077.5
60°	2617.6	2346.1	2594.0	2744.5	2552.7	3187.1	5306.0	20536.4	27937.6	29619.7
62.5°	2473.0	2251.7	2585.1	2496.6	2461.2	2608.7	3647.5	17901.1	25550.2	27193.9
65°	2310.7	2174.9	2446.4	2257.6	2278.2	2006.7	2579.2	14926.4	22699.5	24316.6
67.5°	2136.6	2127.7	2242.8	2009.7	1924.1	1590.6	1879.8	11963.6	19037.2	20495.0
70°	1938.8	2003.8	2039.2	1785.4	1561.1	1248.3	1395.8	8366.2	14044.0	15313.0
72.5°	1741.1	1747.0	1797.2	1552.3	1168.6	1000.4	1047.6	5067.0	9540.7	10464.4
75°	1540.4	1484.4	1531.6	1263.0	870.6	820.4	808.6	3131.1	6589.7	7318.6
77.5°	1325.0	1263.0	1201.1	950.2	699.4	634.5	619.7	1755.9	4042.9	4491.5
80°	1077.1	994.5	897.1	696.4	510.5	454.5	451.5	855.8	2015.6	2245.7
82.5°	838.1	681.7	655.1	433.8	315.8	277.4	295.1	327.6	607.9	678.7
85°	587.3	495.8	348.2	174.1	141.7	115.1	112.1	97.4	162.3	180.0
87.5°	327.6	215.4	112.1	20.7	23.6	26.6	20.7	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)