

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: P638704

Luminaire Tested: GWS-SA4F-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638704  
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-SA4F-735-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

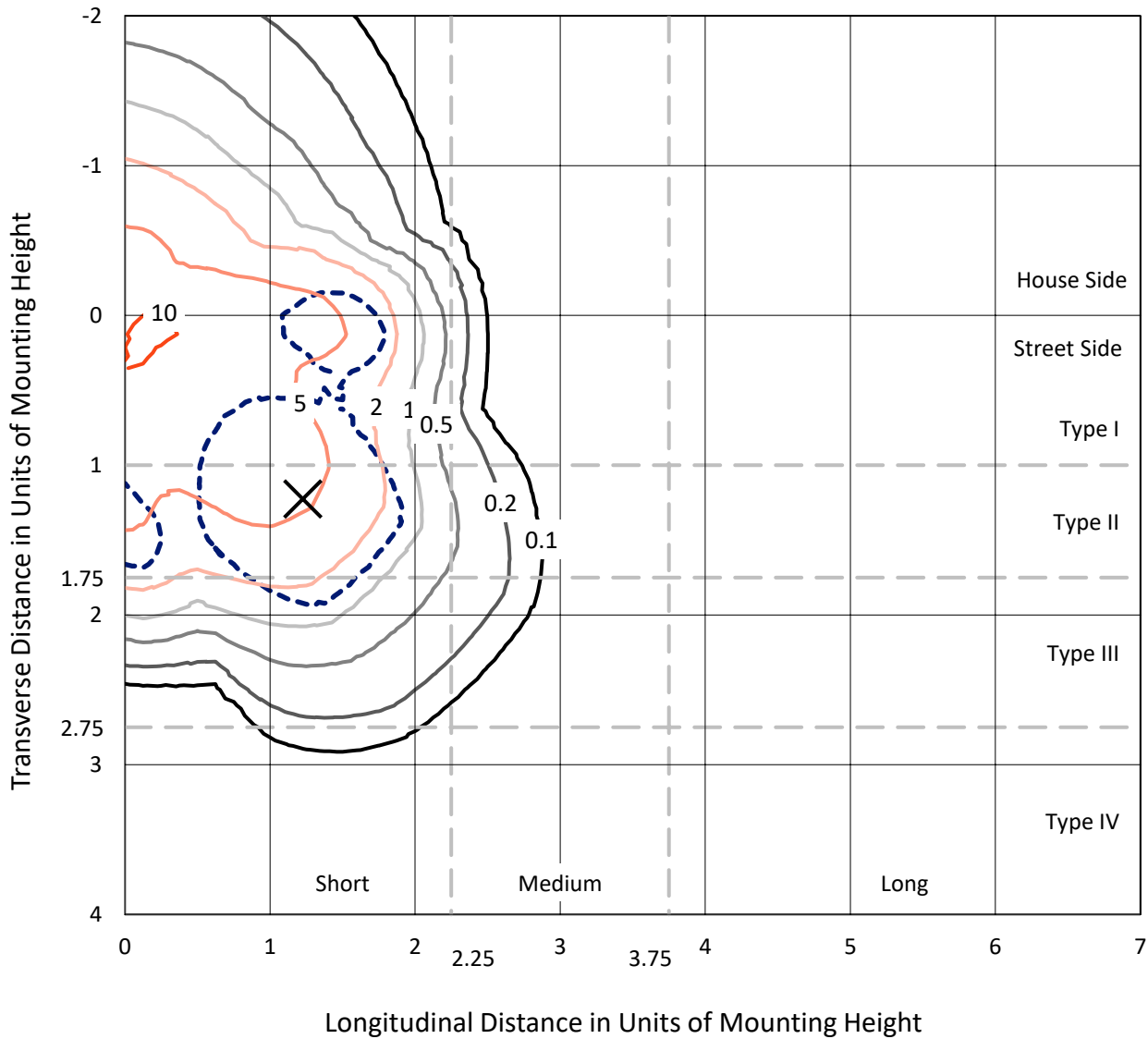
Lumens per Lamp: N/A  
Luminaire Lumens: 26255.8 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

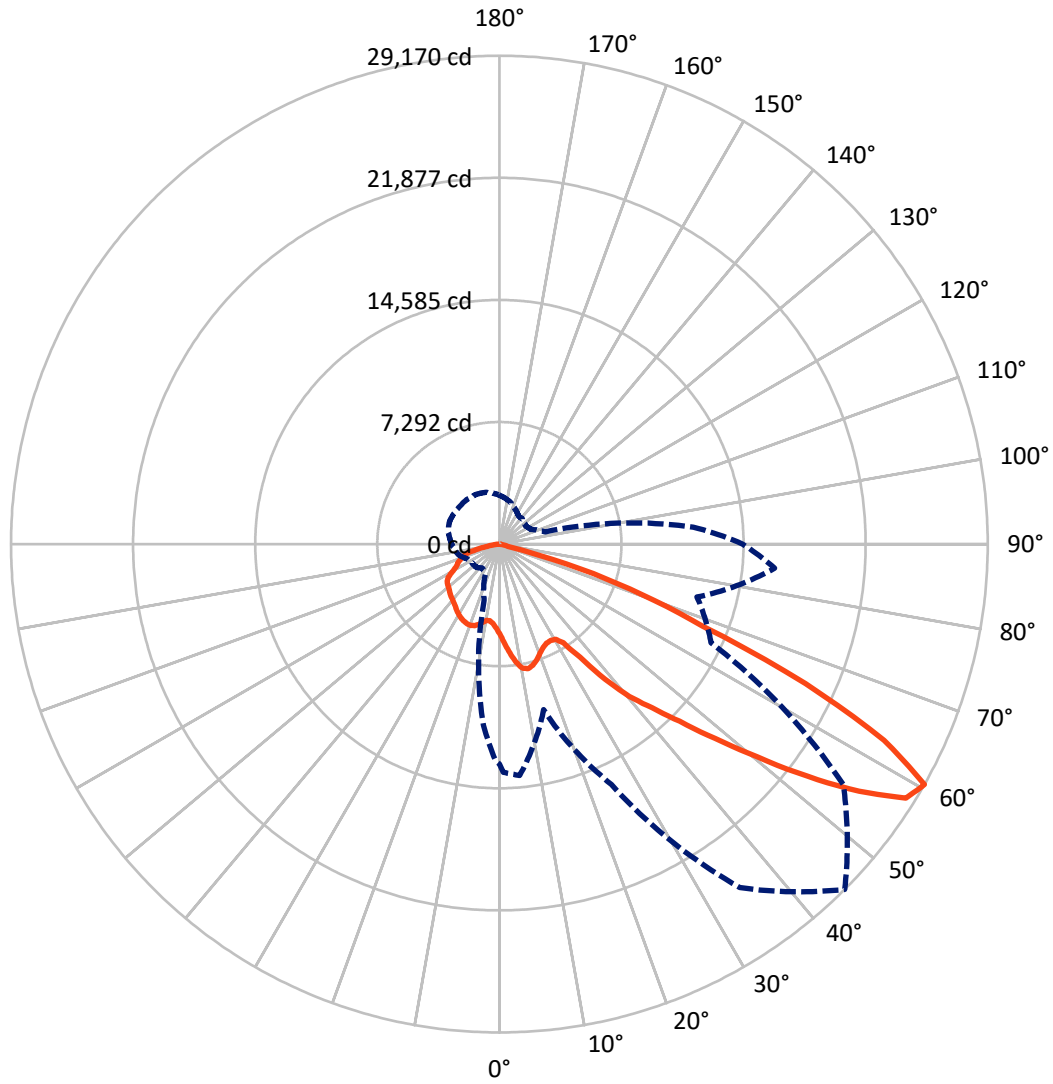
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	9203.6	0.0	9203.6
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	17052.2	0.0	17052.2
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	26255.8	0.0	26255.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.2	2.0
10°-20°	1662.9	6.3
20°-30°	2701.3	10.3
30°-40°	3809.6	14.5
40°-50°	5264.7	20.1
50°-60°	6777.2	25.8
60°-70°	4294.1	16.4
70°-80°	1101.9	4.2
80°-90°	117.8	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°	26255.8	100.0
0°-180°	26255.8	100.0

**Coefficient of Utilization**



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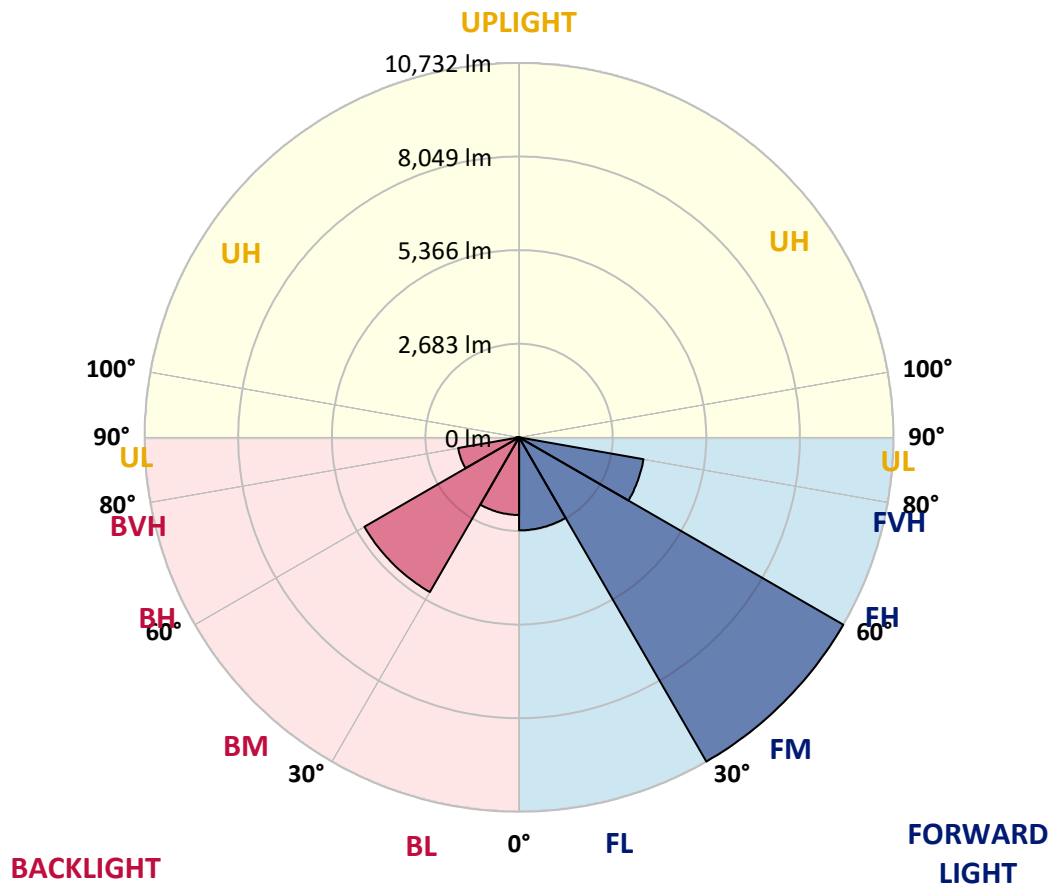
CATALOG NUMBER: GWS-SA4F-735-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2666.0	10.2			
FM (30°-60°)	10731.8	40.9			
FH (60°-80°)	3622.4	13.8			G2/5000
FVH (80°-90°)	32.0	0.1			G1/100
BL (0°-30°)	2224.5	8.5	B3/2500		
BM (30°-60°)	5119.7	19.5	B4/8500		
BH (60°-80°)	1773.6	6.8	B3/2500		G3/2500
BVH (80°-90°)	85.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7
2.5°	5641.5	5680.0	5704.1	5749.8	5831.6	5877.3	5927.8	5872.5	5886.9	5879.7	5790.7
5°	5975.9	6021.6	6084.2	6218.9	6370.4	6454.7	6534.0	6522.0	6447.4	6322.3	6233.3
7.5°	6288.7	6341.6	6449.8	6668.8	6892.5	7022.4	7118.6	7056.1	6993.5	6796.3	6572.5
10°	6534.0	6565.3	6712.1	7005.6	7265.4	7412.1	7530.0	7515.6	7429.0	7207.7	6906.9
12.5°	6765.0	6786.6	6945.4	7238.9	7472.3	7537.2	7633.5	7664.7	7635.9	7469.9	7174.0
15°	7012.8	7053.7	7200.4	7424.2	7530.0	7462.7	7496.3	7583.0	7664.7	7664.7	7392.9
17.5°	7243.7	7279.8	7429.0	7525.2	7424.2	7246.1	7255.8	7366.4	7561.3	7765.8	7592.6
20°	7448.2	7481.9	7628.7	7537.2	7217.3	6957.5	6950.2	7085.0	7400.1	7830.7	7806.7
22.5°	7672.0	7720.1	7842.8	7546.9	7024.8	6695.2	6692.8	6832.4	7258.2	7895.7	8052.1
25°	7989.5	8064.1	8126.7	7631.1	6921.4	6524.4	6555.7	6688.0	7212.5	8001.6	8415.3
27.5°	8461.1	8521.2	8516.4	7806.7	6916.6	6454.7	6519.6	6673.6	7294.3	8189.2	8797.9
30°	8971.1	9002.3	8951.8	8052.1	7027.2	6498.0	6594.2	6777.0	7501.2	8499.5	9360.8
32.5°	9536.4	9574.9	9478.7	8420.2	7284.6	6817.9	7029.6	7118.6	7792.3	8947.0	9957.4
35°	10186.0	10260.6	10060.9	8906.1	8042.5	7984.7	8292.7	8177.2	8410.5	9476.3	10595.0
37.5°	10869.2	10871.6	10585.3	9625.4	9529.2	9627.8	10243.7	9882.9	9721.7	10065.7	11244.5
40°	11449.0	11434.6	10994.3	10595.0	10823.5	11215.6	11959.0	11405.7	10982.3	10857.2	11783.4
42.5°	12028.8	11975.9	11530.8	11210.8	11716.0	12522.0	13361.6	12683.2	11790.6	11576.5	12315.1
45°	12769.8	12752.9	12216.4	11456.2	12522.0	13984.7	15098.5	13999.1	12269.4	11995.1	13200.4
47.5°	13965.4	13883.6	12885.2	11437.0	13277.4	15933.3	17340.7	15656.7	12603.8	12004.7	14629.4
50°	15134.6	15033.6	13684.0	11434.6	14056.8	17954.2	19987.0	17670.3	12945.4	12062.5	16082.5
52.5°	16315.9	16315.9	14995.1	11706.4	14874.8	20210.8	23044.8	20179.5	13527.6	12817.9	17870.0
55°	17018.3	17206.0	16469.8	12165.9	15832.3	22866.7	26068.8	22888.4	14427.3	14181.9	19520.3
57.5°	16125.8	16477.0	16371.2	11846.0	16397.7	24817.8	28633.3	24942.9	14872.4	14343.1	19272.5
60°	13140.3	13628.6	13871.6	10229.3	15839.5	25043.9	29169.8	25077.6	13953.4	12214.0	16508.3
62.5°	8735.3	9137.1	9507.6	7308.7	13712.8	22529.9	25799.4	22537.1	11653.5	9115.4	11437.0
65°	4284.7	4583.0	4982.3	4320.7	10712.8	18825.1	20114.5	18211.6	8429.8	5102.6	5834.0
67.5°	1121.1	1205.3	1260.6	1676.8	7674.4	13525.2	13118.6	13320.7	5415.4	1667.2	1525.3
70°	582.2	587.0	584.6	692.9	5186.8	8595.8	9040.8	8364.8	3779.4	697.7	601.4
72.5°	416.2	418.6	411.4	466.7	2504.4	4924.6	5102.6	5047.3	1979.9	413.8	411.4
75°	271.9	274.3	269.4	274.3	377.7	560.5	517.2	543.7	329.6	262.2	262.2
77.5°	161.2	163.6	161.2	166.0	161.2	161.2	149.2	149.2	141.9	141.9	144.3
80°	108.3	108.3	105.9	110.7	101.0	101.0	96.2	93.8	86.6	84.2	84.2
82.5°	65.0	67.4	65.0	65.0	60.1	60.1	55.3	52.9	45.7	45.7	43.3
85°	33.7	33.7	31.3	31.3	26.5	24.1	19.2	19.2	14.4	12.0	12.0
87.5°	4.8	4.8	2.4	2.4	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°	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7
2.5°	5766.6	5718.5	5646.3	5576.5	5511.6	5444.2	5367.2	5287.9	5220.5	5150.7	5114.6
5°	6115.4	6016.8	5829.2	5663.2	5514.0	5391.3	5259.0	5145.9	5040.1	4953.5	4910.2
7.5°	6430.6	6276.6	5992.7	5730.5	5528.4	5360.0	5177.2	5008.8	4866.8	4761.0	4720.1
10°	6721.7	6538.9	6166.0	5834.0	5598.2	5410.6	5186.8	4958.3	4770.6	4631.1	4597.4
12.5°	6957.5	6748.2	6303.1	5918.2	5639.1	5437.0	5239.7	5042.5	4857.2	4676.8	4647.9
15°	7166.8	6919.0	6406.5	5971.1	5624.7	5367.2	5201.3	5177.2	5177.2	4972.7	4915.0
17.5°	7347.2	7075.3	6490.7	5995.2	5533.2	5160.4	5059.3	5268.6	5504.4	5357.6	5227.7
20°	7554.1	7224.5	6560.5	5995.2	5364.8	4898.1	4888.5	5244.6	5593.4	5595.8	5458.7
22.5°	7763.4	7397.7	6642.3	5973.5	5133.9	4595.0	4773.0	5148.3	5458.7	5591.0	5497.2
25°	8102.6	7638.3	6772.2	5956.7	4864.4	4388.1	4669.6	5020.8	5283.0	5422.6	5362.4
27.5°	8533.2	7955.8	6969.5	5983.1	4597.4	4265.4	4558.9	4854.8	5093.0	5215.7	5172.4
30°	9014.4	8321.5	7181.2	6028.8	4404.9	4202.9	4426.6	4664.8	4876.5	4999.2	4979.9
32.5°	9627.8	8718.5	7364.0	5966.3	4296.7	4171.6	4287.1	4457.9	4662.4	4739.3	4756.2
35°	10361.6	9156.3	7503.6	5720.9	4198.0	4137.9	4135.5	4241.4	4385.7	4508.4	4520.4
37.5°	11037.6	9668.7	7657.5	5299.9	4020.0	4053.7	3957.5	4020.0	4162.0	4284.7	4332.8
40°	11706.4	10188.4	7871.6	4763.4	3786.7	3866.1	3753.0	3796.3	3909.4	4070.5	4147.5
42.5°	12356.0	10657.5	8097.8	4214.9	3553.3	3603.8	3519.6	3562.9	3680.8	3882.9	3969.5
45°	13063.3	11292.6	8273.4	3697.7	3351.2	3329.6	3262.2	3324.8	3502.8	3724.1	3827.6
47.5°	14400.9	12293.4	8388.9	3353.6	3243.0	3086.6	3009.6	3144.3	3346.4	3570.1	3695.2
50°	16034.4	13741.7	8355.2	3134.7	3149.1	2836.4	2809.9	2988.0	3204.5	3437.8	3575.0
52.5°	17328.7	15163.5	7972.7	2925.4	2966.3	2677.6	2600.6	2860.4	3067.3	3305.5	3447.5
55°	18317.4	15642.2	6798.7	2677.6	2668.0	2562.1	2400.9	2728.1	2930.2	3151.5	3305.5
57.5°	17511.5	14576.5	5040.1	2336.0	2278.3	2333.6	2177.2	2504.4	2761.8	2980.7	3117.9
60°	14533.2	11622.2	2807.5	2069.0	1905.4	2040.1	2016.0	2268.6	2579.0	2809.9	2927.8
62.5°	9866.0	7739.3	1664.8	1635.9	1544.5	1737.0	1864.5	2030.5	2336.0	2523.6	2634.3
65°	4917.4	3760.2	1106.6	1224.5	1236.6	1429.0	1669.6	1852.4	2107.4	2299.9	2410.6
67.5°	1426.6	1169.2	842.0	935.8	1065.8	1219.7	1412.2	1628.7	1876.5	2105.0	2234.9
70°	615.9	623.1	668.8	779.5	907.0	1065.8	1258.2	1469.9	1679.2	1854.8	1953.5
72.5°	435.4	452.3	502.8	615.9	736.2	887.7	1080.2	1284.7	1436.2	1614.3	1717.7
75°	279.1	291.1	332.0	418.6	507.6	654.4	837.2	1024.9	1181.2	1308.7	1407.4
77.5°	154.0	156.4	190.1	240.6	300.7	394.5	529.3	676.0	791.5	863.7	952.7
80°	89.0	89.0	105.9	137.1	173.2	231.0	305.5	377.7	447.5	493.2	536.5
82.5°	48.1	48.1	55.3	74.6	93.8	127.5	170.8	206.9	250.2	274.3	303.1
85°	14.4	14.4	19.2	26.5	33.7	48.1	67.4	86.6	105.9	122.7	139.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7
2.5°	5107.4	5073.7	5054.5	5030.4	5037.7	5016.0	5004.0	5011.2	4967.9	5011.2	5054.5
5°	4893.3	4845.2	4806.7	4775.4	4761.0	4732.1	4715.3	4715.3	4688.8	4732.1	4785.1
7.5°	4705.7	4667.2	4647.9	4628.7	4607.0	4580.6	4551.7	4542.1	4525.2	4570.9	4616.7
10°	4580.6	4585.4	4597.4	4623.9	4619.1	4602.2	4558.9	4534.9	4534.9	4587.8	4657.5
12.5°	4638.3	4688.8	4717.7	4765.8	4775.4	4761.0	4717.7	4698.4	4746.6	4826.0	4941.4
15°	4862.0	4895.7	4919.8	4958.3	4955.9	4943.8	4910.2	4924.6	5083.4	5237.3	5340.8
17.5°	5105.0	5066.5	5061.7	5085.8	5093.0	5078.6	5059.3	5124.3	5386.5	5530.8	5583.8
20°	5280.6	5148.3	5119.5	5129.1	5148.3	5141.1	5141.1	5247.0	5518.8	5586.2	5518.8
22.5°	5333.6	5145.9	5102.6	5105.0	5131.5	5133.9	5145.9	5256.6	5415.4	5417.8	5314.3
25°	5249.4	5068.9	5037.7	5042.5	5073.7	5071.3	5076.2	5138.7	5208.5	5179.6	5102.6
27.5°	5090.6	4934.2	4924.6	4951.1	4991.9	4970.3	4955.9	4972.7	5006.4	4970.3	4902.9
30°	4910.2	4777.8	4782.6	4833.2	4876.5	4840.4	4804.3	4813.9	4816.3	4777.8	4700.9
32.5°	4720.1	4621.5	4638.3	4691.2	4741.8	4703.3	4664.8	4660.0	4614.2	4568.5	4494.0
35°	4530.0	4491.6	4513.2	4556.5	4599.8	4568.5	4544.5	4530.0	4431.4	4364.0	4301.5
37.5°	4356.8	4385.7	4424.2	4450.7	4465.1	4462.7	4448.2	4414.6	4284.7	4205.3	4123.5
40°	4202.9	4291.9	4332.8	4344.8	4366.5	4361.6	4359.2	4311.1	4140.3	4056.1	3962.3
42.5°	4063.3	4188.4	4258.2	4270.2	4282.3	4284.7	4277.4	4207.7	4012.8	3914.2	3825.2
45°	3928.6	4092.2	4181.2	4169.2	4186.0	4186.0	4193.2	4101.8	3887.7	3786.7	3692.8
47.5°	3810.7	4003.2	4085.0	4070.5	4080.2	4087.4	4094.6	3988.7	3750.6	3654.3	3558.1
50°	3702.5	3907.0	3976.7	3981.5	3981.5	3998.4	3996.0	3892.5	3635.1	3531.7	3435.4
52.5°	3587.0	3808.3	3882.9	3914.2	3923.8	3931.0	3897.3	3777.0	3517.2	3392.1	3303.1
55°	3452.3	3707.3	3774.6	3815.5	3834.8	3830.0	3784.3	3661.6	3396.9	3271.8	3170.8
57.5°	3247.8	3490.8	3587.0	3606.2	3637.5	3618.3	3565.3	3461.9	3204.5	3079.4	2975.9
60°	3024.0	3199.7	3276.6	3293.5	3269.4	3276.6	3269.4	3170.8	2947.1	2848.4	2742.6
62.5°	2730.5	2886.9	2968.7	2990.4	2949.5	2975.9	2966.3	2843.6	2619.9	2516.4	2422.6
65°	2509.2	2680.0	2776.2	2788.3	2776.2	2788.3	2754.6	2605.4	2393.7	2287.9	2191.6
67.5°	2336.0	2511.6	2612.7	2646.3	2634.3	2631.9	2579.0	2405.8	2186.8	2071.4	1948.7
70°	2037.7	2191.6	2321.6	2403.4	2403.4	2357.6	2256.6	2095.4	1919.8	1821.2	1724.9
72.5°	1804.3	1999.2	2126.7	2210.9	2227.7	2201.3	2059.3	1888.5	1686.4	1587.8	1486.8
75°	1486.8	1676.8	1813.9	1924.6	1946.3	1917.4	1753.8	1585.4	1397.7	1301.5	1200.5
77.5°	993.6	1106.6	1217.3	1318.4	1296.7	1315.9	1205.3	1077.8	962.3	890.1	844.4
80°	560.5	635.1	668.8	724.1	724.1	724.1	652.0	591.8	526.9	486.0	440.3
82.5°	317.6	365.7	380.1	425.8	437.8	440.3	392.1	353.6	312.7	291.1	259.8
85°	146.8	173.2	175.6	202.1	211.7	231.0	209.3	182.8	158.8	149.2	129.9
87.5°	4.8	14.4	19.2	36.1	48.1	55.3	60.1	60.1	50.5	45.7	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638704

CATALOG NUMBER: GWS-SA4F-735-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7	5393.7
2.5°	5107.4	5165.2	5232.5	5280.6	5367.2	5439.4	5514.0	5595.8	5655.9	5641.5
5°	4850.0	4946.2	5068.9	5182.0	5343.2	5506.8	5687.2	5872.5	5980.7	5975.9
7.5°	4705.7	4842.8	4991.9	5143.5	5333.6	5569.3	5846.0	6134.7	6281.4	6288.7
10°	4782.6	4929.4	5030.4	5157.9	5357.6	5653.5	5985.5	6332.0	6500.4	6534.0
12.5°	5025.6	5013.6	5006.4	5097.8	5338.4	5713.7	6120.2	6534.0	6724.1	6765.0
15°	5256.6	5008.8	4859.6	4922.2	5251.8	5752.2	6252.6	6755.4	6969.5	7012.8
17.5°	5299.9	4924.6	4647.9	4691.2	5114.6	5764.2	6380.1	6971.9	7202.8	7243.7
20°	5179.6	4816.3	4494.0	4433.8	4941.4	5732.9	6459.5	7152.3	7404.9	7448.2
22.5°	5028.0	4720.1	4378.5	4222.1	4729.7	5701.6	6548.5	7342.4	7633.5	7672.0
25°	4869.3	4597.4	4270.2	4032.1	4489.1	5682.4	6697.6	7592.6	7943.8	7989.5
27.5°	4700.9	4448.2	4176.4	3940.6	4267.8	5706.5	6909.3	7996.7	8396.1	8461.1
30°	4520.4	4299.1	4116.3	3909.4	4116.3	5728.1	7142.7	8410.5	8879.7	8971.1
32.5°	4332.8	4162.0	4053.7	3923.8	4022.4	5677.6	7347.2	8874.8	9457.0	9536.4
35°	4145.1	4022.4	3974.3	3950.3	3897.3	5492.3	7513.2	9344.0	10116.2	10186.0
37.5°	3969.5	3878.1	3863.6	3890.1	3704.9	5189.2	7705.6	9940.6	10763.4	10869.2
40°	3805.9	3721.7	3719.3	3714.5	3493.2	4775.4	7965.5	10546.8	11400.9	11449.0
42.5°	3654.3	3548.5	3567.7	3510.0	3319.9	4328.0	8210.9	11064.1	11995.1	12028.8
45°	3519.6	3380.1	3401.7	3329.6	3238.2	3858.8	8427.4	11675.1	12748.1	12769.8
47.5°	3389.7	3240.6	3180.4	3175.6	3223.7	3425.8	8639.1	12851.6	13926.9	13965.4
50°	3269.4	3108.2	2937.4	3043.3	3134.7	3101.0	8903.7	14112.2	15144.3	15134.6
52.5°	3153.9	2942.2	2699.3	2903.8	2903.8	2860.4	8829.1	14877.2	16149.9	16315.9
55°	3021.6	2675.2	2451.5	2670.4	2564.5	2643.9	7508.4	15127.4	16782.6	17018.3
57.5°	2759.4	2345.6	2150.7	2268.6	2109.9	2451.5	5393.7	13886.0	15707.2	16125.8
60°	2506.8	2102.6	1975.1	1953.5	1746.6	1999.2	3495.6	10871.6	12928.5	13140.3
62.5°	2210.9	1893.3	1785.1	1619.1	1405.0	1455.5	2117.1	7154.7	8687.2	8735.3
65°	1987.2	1715.3	1508.4	1311.1	1150.0	1056.1	1251.0	3449.9	4342.4	4284.7
67.5°	1705.7	1469.9	1272.6	1130.7	998.4	880.5	832.4	1024.9	1159.6	1121.1
70°	1518.0	1291.9	1101.8	967.1	844.4	726.5	642.3	603.8	591.8	582.2
72.5°	1308.7	1111.5	914.2	784.3	668.8	560.5	483.6	437.8	425.8	416.2
75°	1044.1	858.9	678.4	555.7	454.7	377.7	327.2	288.7	281.5	271.9
77.5°	690.5	550.9	404.2	329.6	269.4	228.5	194.9	170.8	166.0	161.2
80°	380.1	317.6	247.8	199.7	161.2	139.5	127.5	113.1	110.7	108.3
82.5°	226.1	190.1	141.9	113.1	93.8	84.2	77.0	69.8	67.4	65.0
85°	113.1	89.0	62.5	52.9	48.1	43.3	43.3	36.1	33.7	33.7
87.5°	28.9	24.1	14.4	12.0	12.0	12.0	9.6	7.2	7.2	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)