

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: P638374

Luminaire Tested: GWS-SA4E-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638374  
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-SA4E-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

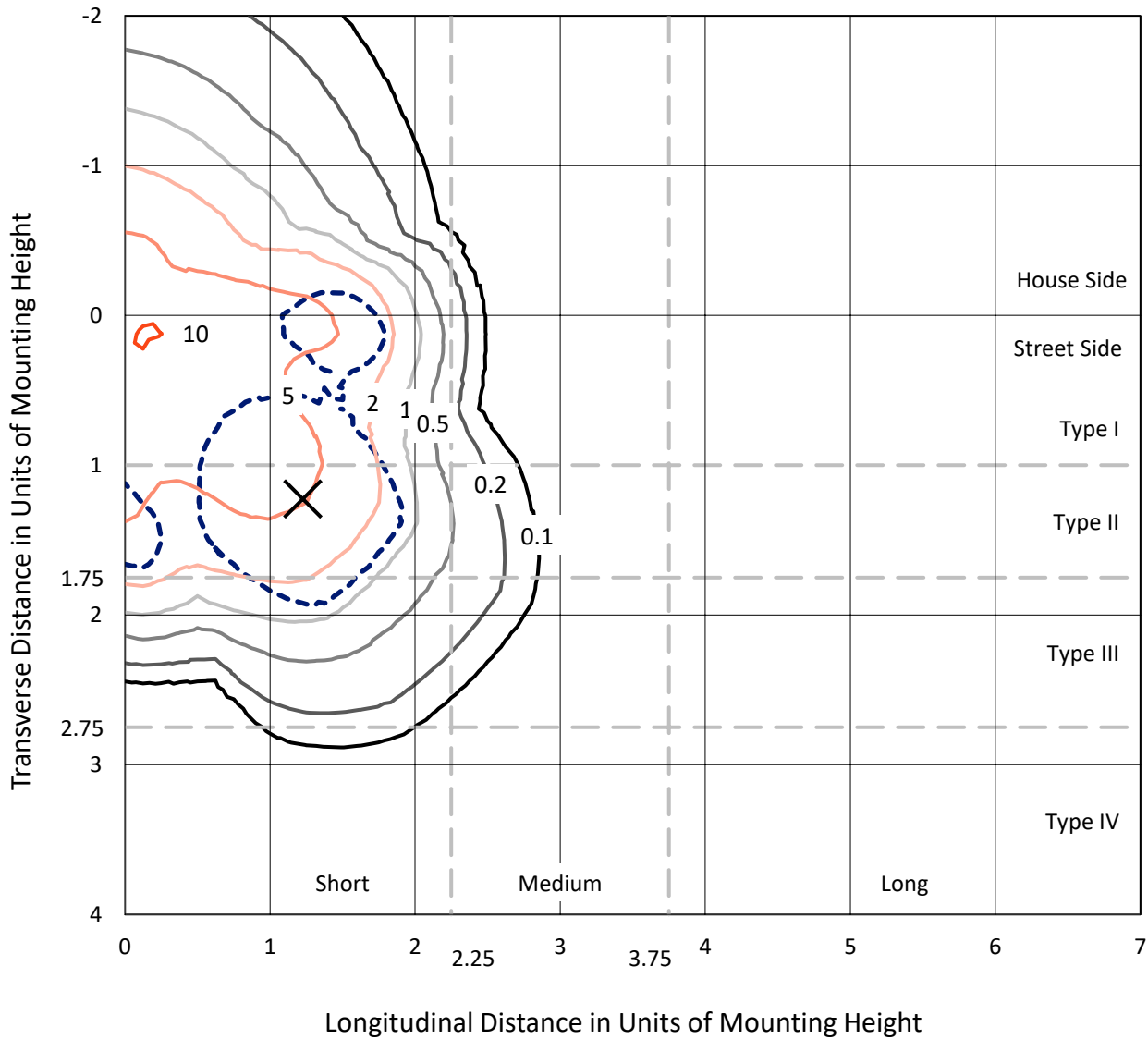
Lumens per Lamp: N/A  
Luminaire Lumens: 24156.3 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

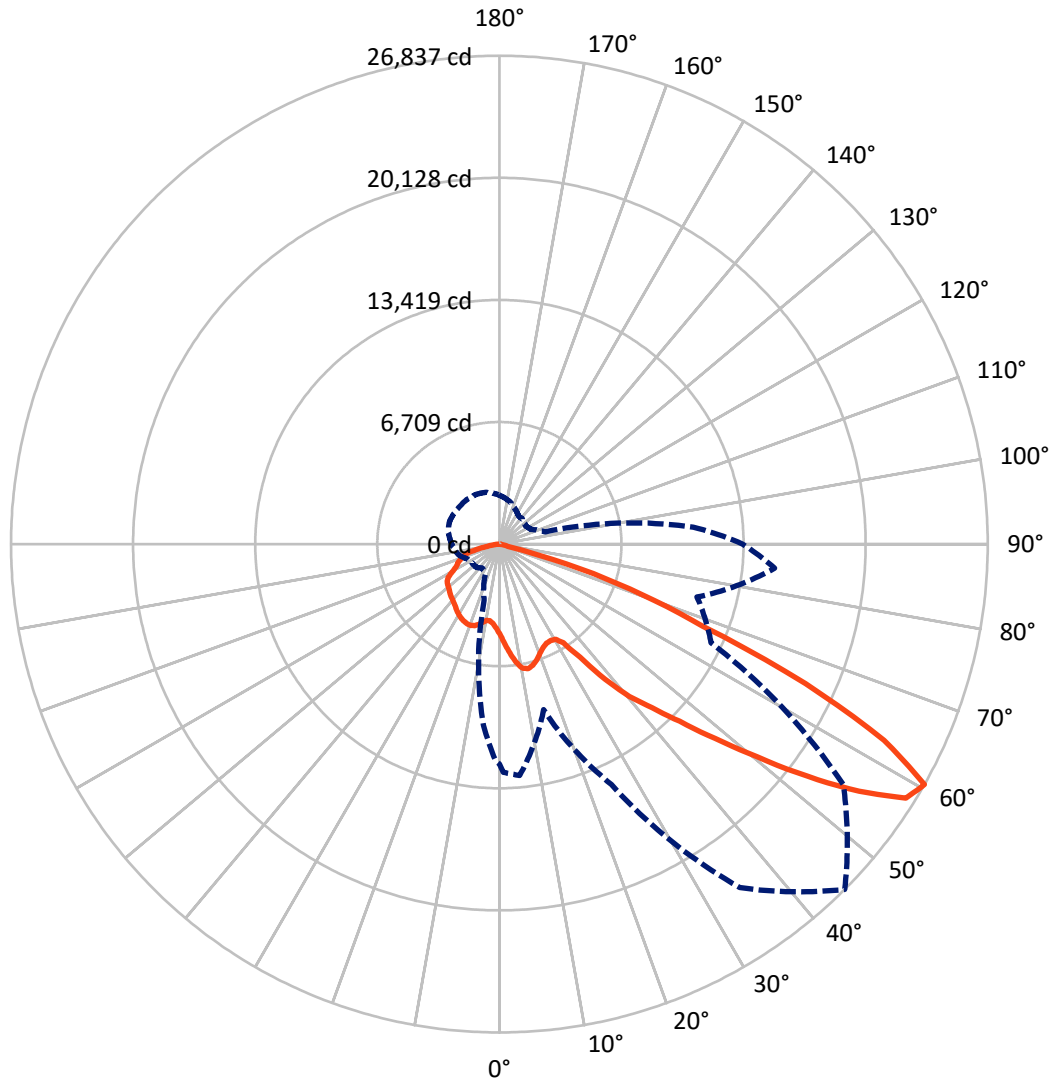
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	8467.7	0.0	8467.7
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	15688.6	0.0	15688.6
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	24156.3	0.0	24156.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	484.2	2.0
10°-20°	1530.0	6.3
20°-30°	2485.3	10.3
30°-40°	3504.9	14.5
40°-50°	4843.7	20.1
50°-60°	6235.3	25.8
60°-70°	3950.8	16.4
70°-80°	1013.8	4.2
80°-90°	108.4	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°	24156.3	100.0
0°-180°	24156.3	100.0

**Coefficient of Utilization**



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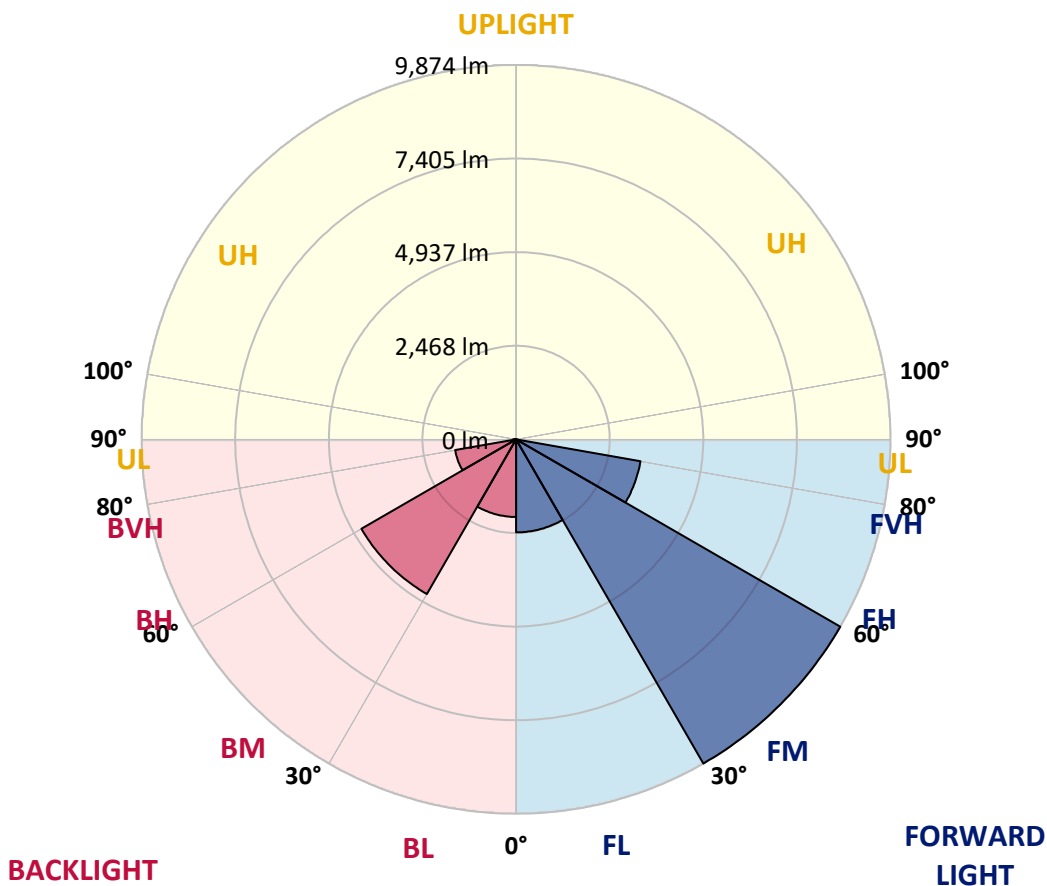
CATALOG NUMBER: GWS-SA4E-760-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.8	10.2			
FM (30°-60°)	9873.7	40.9			
FH (60°-80°)	3332.7	13.8			G2/5000
FVH (80°-90°)	29.4	0.1			G1/100
BL (0°-30°)	2046.6	8.5	B3/2500		
BM (30°-60°)	4710.3	19.5	B3/5000		
BH (60°-80°)	1631.8	6.8	B3/2500		G3/2500
BVH (80°-90°)	79.0	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°	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4
2.5°	5190.4	5225.8	5247.9	5290.0	5365.2	5407.3	5453.8	5402.9	5416.2	5409.5	5327.6
5°	5498.1	5540.1	5597.7	5721.6	5861.0	5938.5	6011.6	6000.5	5931.9	5816.8	5734.9
7.5°	5785.8	5834.5	5934.1	6135.5	6341.4	6460.9	6549.4	6491.9	6434.3	6252.8	6047.0
10°	6011.6	6040.3	6175.3	6445.4	6684.4	6819.4	6927.9	6914.6	6834.9	6631.3	6354.6
12.5°	6224.0	6244.0	6390.0	6660.1	6874.8	6934.5	7023.1	7051.8	7025.3	6872.6	6600.3
15°	6452.0	6489.6	6624.7	6830.5	6927.9	6865.9	6896.9	6976.6	7051.8	7051.8	6801.7
17.5°	6664.5	6697.7	6834.9	6923.5	6830.5	6666.7	6675.6	6777.4	6956.7	7144.8	6985.4
20°	6852.6	6883.6	7018.6	6934.5	6640.2	6401.1	6394.5	6518.4	6808.4	7204.6	7182.4
22.5°	7058.5	7102.8	7215.6	6943.4	6463.1	6159.9	6157.6	6286.0	6677.8	7264.3	7408.2
25°	7350.7	7419.3	7476.8	7020.9	6367.9	6002.7	6031.5	6153.2	6635.7	7361.7	7742.4
27.5°	7784.5	7839.8	7835.4	7182.4	6363.5	5938.5	5998.3	6139.9	6711.0	7534.4	8094.4
30°	8253.7	8282.5	8236.0	7408.2	6465.3	5978.4	6066.9	6235.1	6901.3	7819.9	8612.3
32.5°	8773.9	8809.3	8720.7	7746.9	6702.1	6272.7	6467.5	6549.4	7169.2	8231.6	9161.2
35°	9371.5	9440.1	9256.4	8194.0	7399.4	7346.2	7629.5	7523.3	7738.0	8718.5	9747.8
37.5°	10000.1	10002.3	9738.9	8855.8	8767.2	8858.0	9424.6	9092.6	8944.3	9260.8	10345.4
40°	10533.5	10520.2	10115.2	9747.8	9958.0	10318.8	11002.7	10493.7	10104.1	9989.0	10841.2
42.5°	11066.9	11018.2	10608.8	10314.4	10779.2	11520.7	12293.1	11669.0	10847.8	10650.8	11330.3
45°	11748.7	11733.2	11239.6	10540.1	11520.7	12866.4	13891.2	12879.7	11288.3	11035.9	12144.9
47.5°	12848.7	12773.5	11854.9	10522.4	12215.7	14659.3	15954.1	14404.7	11595.9	11044.8	13459.6
50°	13924.4	13831.5	12589.7	10520.2	12932.8	16518.5	18388.8	16257.3	11910.2	11097.9	14796.5
52.5°	15011.2	15011.2	13796.0	10770.3	13685.4	18594.7	21202.0	18565.9	12445.9	11792.9	16441.0
55°	15657.5	15830.1	15152.8	11193.1	14566.3	21038.2	23984.3	21058.2	13273.7	13047.9	17959.4
57.5°	14836.3	15159.5	15062.1	10898.7	15086.4	22833.3	26343.7	22948.4	13683.2	13196.2	17731.4
60°	12089.5	12538.8	12762.4	9411.3	14572.9	23041.4	26837.3	23072.3	12837.6	11237.4	15188.3
62.5°	8036.8	8406.4	8747.3	6724.3	12616.3	20728.4	23736.4	20735.0	10721.6	8386.5	10522.4
65°	3942.0	4216.5	4583.9	3975.2	9856.2	17319.7	18506.1	16755.3	7755.7	4694.6	5367.5
67.5°	1031.4	1108.9	1159.8	1542.7	7060.7	12443.7	12069.6	12255.5	4982.3	1533.9	1403.3
70°	535.6	540.1	537.9	637.5	4772.1	7908.4	8317.9	7695.9	3477.2	641.9	553.3
72.5°	382.9	385.1	378.5	429.4	2304.1	4530.8	4694.6	4643.7	1821.6	380.7	378.5
75°	250.1	252.3	247.9	252.3	347.5	515.7	475.9	500.2	303.2	241.3	241.3
77.5°	148.3	150.5	148.3	152.7	148.3	148.3	137.2	137.2	130.6	130.6	132.8
80°	99.6	99.6	97.4	101.8	93.0	93.0	88.5	86.3	79.7	77.5	77.5
82.5°	59.8	62.0	59.8	59.8	55.3	55.3	50.9	48.7	42.1	42.1	39.8
85°	31.0	31.0	28.8	28.8	24.3	22.1	17.7	17.7	13.3	11.1	11.1
87.5°	4.4	4.4	2.2	2.2	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°	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4
2.5°	5305.5	5261.2	5194.8	5130.6	5070.9	5008.9	4938.1	4865.0	4803.0	4738.9	4705.7
5°	5626.4	5535.7	5363.0	5210.3	5073.1	4960.2	4838.5	4734.4	4637.0	4557.4	4517.5
7.5°	5916.4	5774.7	5513.5	5272.3	5086.4	4931.4	4763.2	4608.3	4477.7	4380.3	4342.7
10°	6184.2	6016.0	5672.9	5367.5	5150.5	4977.9	4772.1	4561.8	4389.1	4260.8	4229.8
12.5°	6401.1	6208.5	5799.1	5444.9	5188.2	5002.3	4820.8	4639.3	4468.8	4302.8	4276.3
15°	6593.7	6365.7	5894.2	5493.6	5174.9	4938.1	4785.3	4763.2	4763.2	4575.1	4521.9
17.5°	6759.7	6509.6	5971.7	5515.8	5090.8	4747.7	4654.8	4847.3	5064.2	4929.2	4809.7
20°	6950.0	6646.8	6035.9	5515.8	4935.9	4506.5	4497.6	4825.2	5146.1	5148.3	5022.2
22.5°	7142.6	6806.2	6111.2	5495.8	4723.4	4227.6	4391.4	4736.6	5022.2	5143.9	5057.6
25°	7454.7	7027.5	6230.7	5480.3	4475.5	4037.2	4296.2	4619.3	4860.6	4989.0	4933.6
27.5°	7850.9	7319.7	6412.2	5504.7	4229.8	3924.3	4194.4	4466.6	4685.7	4798.6	4758.8
30°	8293.6	7656.1	6607.0	5546.7	4052.7	3866.8	4072.6	4291.8	4486.5	4599.4	4581.7
32.5°	8858.0	8021.3	6775.2	5489.2	3953.1	3838.0	3944.3	4101.4	4289.5	4360.4	4375.9
35°	9533.1	8424.1	6903.6	5263.4	3862.4	3807.0	3804.8	3902.2	4035.0	4147.9	4159.0
37.5°	10155.0	8895.6	7045.2	4876.1	3698.6	3729.6	3641.0	3698.6	3829.2	3942.0	3986.3
40°	10770.3	9373.7	7242.2	4382.5	3483.9	3556.9	3452.9	3492.7	3596.8	3745.0	3815.9
42.5°	11368.0	9805.3	7450.3	3877.9	3269.2	3315.7	3238.2	3278.0	3386.5	3572.4	3652.1
45°	12018.7	10389.6	7611.8	3402.0	3083.2	3063.3	3001.4	3058.9	3222.7	3426.3	3521.5
47.5°	13249.3	11310.4	7718.1	3085.5	2983.6	2839.8	2768.9	2892.9	3078.8	3284.7	3399.8
50°	14752.2	12642.9	7687.1	2884.0	2897.3	2609.6	2585.2	2749.0	2948.2	3162.9	3289.1
52.5°	15943.0	13951.0	7335.2	2691.5	2729.1	2463.5	2392.7	2631.7	2822.1	3041.2	3171.8
55°	16852.7	14391.4	6255.0	2463.5	2454.6	2357.3	2209.0	2510.0	2695.9	2899.5	3041.2
57.5°	16111.2	13410.9	4637.0	2149.2	2096.1	2147.0	2003.1	2304.1	2541.0	2742.4	2868.5
60°	13371.1	10692.9	2583.0	1903.5	1753.0	1877.0	1854.8	2087.2	2372.8	2585.2	2693.7
62.5°	9077.1	7120.5	1531.7	1505.1	1421.0	1598.1	1715.4	1868.1	2149.2	2321.8	2423.7
65°	4524.2	3459.5	1018.2	1126.6	1137.7	1314.8	1536.1	1704.3	1938.9	2116.0	2217.8
67.5°	1312.5	1075.7	774.7	861.0	980.5	1122.2	1299.3	1498.5	1726.4	1936.7	2056.2
70°	566.6	573.3	615.3	717.1	834.4	980.5	1157.6	1352.4	1544.9	1706.5	1797.3
72.5°	400.6	416.1	462.6	566.6	677.3	816.7	993.8	1181.9	1321.4	1485.2	1580.4
75°	256.8	267.8	305.4	385.1	467.0	602.0	770.3	942.9	1086.8	1204.1	1294.8
77.5°	141.7	143.9	174.9	221.3	276.7	363.0	486.9	622.0	728.2	794.6	876.5
80°	81.9	81.9	97.4	126.2	159.4	212.5	281.1	347.5	411.7	453.7	493.6
82.5°	44.3	44.3	50.9	68.6	86.3	117.3	157.2	190.4	230.2	252.3	278.9
85°	13.3	13.3	17.7	24.3	31.0	44.3	62.0	79.7	97.4	112.9	128.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4
2.5°	4699.0	4668.0	4650.3	4628.2	4634.8	4614.9	4603.8	4610.5	4570.6	4610.5	4650.3
5°	4502.0	4457.8	4422.3	4393.6	4380.3	4353.7	4338.2	4338.2	4313.9	4353.7	4402.4
7.5°	4329.4	4294.0	4276.3	4258.6	4238.6	4214.3	4187.7	4178.9	4163.4	4205.4	4247.5
10°	4214.3	4218.7	4229.8	4254.1	4249.7	4234.2	4194.4	4172.2	4172.2	4220.9	4285.1
12.5°	4267.4	4313.9	4340.5	4384.7	4393.6	4380.3	4340.5	4322.7	4367.0	4440.1	4546.3
15°	4473.3	4504.2	4526.4	4561.8	4559.6	4548.5	4517.5	4530.8	4676.9	4818.5	4913.7
17.5°	4696.8	4661.4	4657.0	4679.1	4685.7	4672.5	4654.8	4714.5	4955.8	5088.6	5137.3
20°	4858.4	4736.6	4710.1	4718.9	4736.6	4730.0	4730.0	4827.4	5077.5	5139.5	5077.5
22.5°	4907.1	4734.4	4694.6	4696.8	4721.2	4723.4	4734.4	4836.2	4982.3	4984.5	4889.4
25°	4829.6	4663.6	4634.8	4639.3	4668.0	4665.8	4670.2	4727.8	4792.0	4765.4	4694.6
27.5°	4683.5	4539.7	4530.8	4555.1	4592.8	4572.9	4559.6	4575.1	4606.1	4572.9	4510.9
30°	4517.5	4395.8	4400.2	4446.7	4486.5	4453.3	4420.1	4429.0	4431.2	4395.8	4325.0
32.5°	4342.7	4251.9	4267.4	4316.1	4362.6	4327.2	4291.8	4287.3	4245.3	4203.2	4134.6
35°	4167.8	4132.4	4152.3	4192.2	4232.0	4203.2	4181.1	4167.8	4077.1	4015.1	3957.5
37.5°	4008.4	4035.0	4070.4	4094.8	4108.0	4105.8	4092.6	4061.6	3942.0	3869.0	3793.7
40°	3866.8	3948.7	3986.3	3997.4	4017.3	4012.9	4010.7	3966.4	3809.2	3731.8	3645.4
42.5°	3738.4	3853.5	3917.7	3928.8	3939.8	3942.0	3935.4	3871.2	3691.9	3601.2	3519.3
45°	3614.5	3765.0	3846.9	3835.8	3851.3	3851.3	3857.9	3773.8	3576.8	3483.9	3397.5
47.5°	3506.0	3683.1	3758.3	3745.0	3753.9	3760.5	3767.2	3669.8	3450.7	3362.1	3273.6
50°	3406.4	3594.5	3658.7	3663.2	3663.2	3678.6	3676.4	3581.3	3344.4	3249.3	3160.7
52.5°	3300.2	3503.8	3572.4	3601.2	3610.0	3616.7	3585.7	3475.0	3236.0	3120.9	3039.0
55°	3176.2	3410.8	3472.8	3510.4	3528.1	3523.7	3481.7	3368.8	3125.3	3010.2	2917.2
57.5°	2988.1	3211.6	3300.2	3317.9	3346.6	3328.9	3280.2	3185.1	2948.2	2833.1	2738.0
60°	2782.2	2943.8	3014.6	3030.1	3008.0	3014.6	3008.0	2917.2	2711.4	2620.6	2523.3
62.5°	2512.2	2656.1	2731.3	2751.2	2713.6	2738.0	2729.1	2616.2	2410.4	2315.2	2228.9
65°	2308.6	2465.7	2554.2	2565.3	2554.2	2565.3	2534.3	2397.1	2202.3	2104.9	2016.4
67.5°	2149.2	2310.8	2403.7	2434.7	2423.7	2421.4	2372.8	2213.4	2012.0	1905.7	1792.8
70°	1874.7	2016.4	2135.9	2211.2	2211.2	2169.1	2076.2	1927.9	1766.3	1675.5	1587.0
72.5°	1660.0	1839.3	1956.6	2034.1	2049.6	2025.2	1894.7	1737.5	1551.6	1460.8	1367.9
75°	1367.9	1542.7	1668.9	1770.7	1790.6	1764.1	1613.6	1458.6	1286.0	1197.4	1104.5
77.5°	914.1	1018.2	1120.0	1212.9	1193.0	1210.7	1108.9	991.6	885.4	819.0	776.9
80°	515.7	584.3	615.3	666.2	666.2	666.2	599.8	544.5	484.7	447.1	405.0
82.5°	292.2	336.4	349.7	391.8	402.8	405.0	360.8	325.4	287.7	267.8	239.0
85°	135.0	159.4	161.6	185.9	194.8	212.5	192.6	168.2	146.1	137.2	119.5
87.5°	4.4	13.3	17.7	33.2	44.3	50.9	55.3	55.3	46.5	42.1	35.4
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: P638374

CATALOG NUMBER: GWS-SA4E-760-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4
2.5°	4699.0	4752.1	4814.1	4858.4	4938.1	5004.5	5073.1	5148.3	5203.7	5190.4
5°	4462.2	4550.7	4663.6	4767.6	4915.9	5066.4	5232.4	5402.9	5502.5	5498.1
7.5°	4329.4	4455.5	4592.8	4732.2	4907.1	5124.0	5378.5	5644.1	5779.2	5785.8
10°	4400.2	4535.2	4628.2	4745.5	4929.2	5201.5	5506.9	5825.6	5980.6	6011.6
12.5°	4623.8	4612.7	4606.1	4690.2	4911.5	5256.8	5630.9	6011.6	6186.4	6224.0
15°	4836.2	4608.3	4471.0	4528.6	4831.8	5292.2	5752.6	6215.2	6412.2	6452.0
17.5°	4876.1	4530.8	4276.3	4316.1	4705.7	5303.3	5869.9	6414.4	6626.9	6664.5
20°	4765.4	4431.2	4134.6	4079.3	4546.3	5274.5	5942.9	6580.4	6812.8	6852.6
22.5°	4626.0	4342.7	4028.4	3884.5	4351.5	5245.7	6024.8	6755.3	7023.1	7058.5
25°	4479.9	4229.8	3928.8	3709.6	4130.2	5228.0	6162.1	6985.4	7308.6	7350.7
27.5°	4325.0	4092.6	3842.4	3625.5	3926.5	5250.2	6356.8	7357.3	7724.7	7784.5
30°	4159.0	3955.3	3787.1	3596.8	3787.1	5270.1	6571.5	7738.0	8169.6	8253.7
32.5°	3986.3	3829.2	3729.6	3610.0	3700.8	5223.6	6759.7	8165.2	8700.8	8773.9
35°	3813.7	3700.8	3656.5	3634.4	3585.7	5053.2	6912.4	8596.8	9307.3	9371.5
37.5°	3652.1	3568.0	3554.7	3579.0	3408.6	4774.3	7089.5	9145.7	9902.7	10000.1
40°	3501.6	3424.1	3421.9	3417.5	3213.8	4393.6	7328.5	9703.5	10489.2	10533.5
42.5°	3362.1	3264.7	3282.5	3229.3	3054.5	3981.9	7554.3	10179.4	11035.9	11066.9
45°	3238.2	3109.8	3129.7	3063.3	2979.2	3550.3	7753.5	10741.6	11728.7	11748.7
47.5°	3118.7	2981.4	2926.1	2921.7	2965.9	3151.9	7948.3	11823.9	12813.3	12848.7
50°	3008.0	2859.7	2702.5	2799.9	2884.0	2853.1	8191.7	12983.7	13933.3	13924.4
52.5°	2901.7	2707.0	2483.4	2671.6	2671.6	2631.7	8123.1	13687.6	14858.5	15011.2
55°	2780.0	2461.3	2255.4	2456.9	2359.5	2432.5	6908.0	13917.8	15440.6	15657.5
57.5°	2538.8	2158.1	1978.8	2087.2	1941.1	2255.4	4962.4	12775.7	14451.2	14836.3
60°	2306.3	1934.5	1817.2	1797.3	1606.9	1839.3	3216.1	10002.3	11894.7	12089.5
62.5°	2034.1	1741.9	1642.3	1489.6	1292.6	1339.1	1947.8	6582.6	7992.5	8036.8
65°	1828.3	1578.1	1387.8	1206.3	1058.0	971.7	1151.0	3174.0	3995.2	3942.0
67.5°	1569.3	1352.4	1170.9	1040.3	918.6	810.1	765.8	942.9	1066.9	1031.4
70°	1396.6	1188.6	1013.7	889.8	776.9	668.4	591.0	555.6	544.5	535.6
72.5°	1204.1	1022.6	841.1	721.6	615.3	515.7	444.9	402.8	391.8	382.9
75°	960.6	790.2	624.2	511.3	418.3	347.5	301.0	265.6	259.0	250.1
77.5°	635.2	506.9	371.8	303.2	247.9	210.3	179.3	157.2	152.7	148.3
80°	349.7	292.2	228.0	183.7	148.3	128.4	117.3	104.0	101.8	99.6
82.5°	208.1	174.9	130.6	104.0	86.3	77.5	70.8	64.2	62.0	59.8
85°	104.0	81.9	57.5	48.7	44.3	39.8	39.8	33.2	31.0	31.0
87.5°	26.6	22.1	13.3	11.1	11.1	11.1	8.9	6.6	6.6	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)