

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: P640739

Luminaire Tested: GWS-SA5E-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640739  
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-SA5E-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

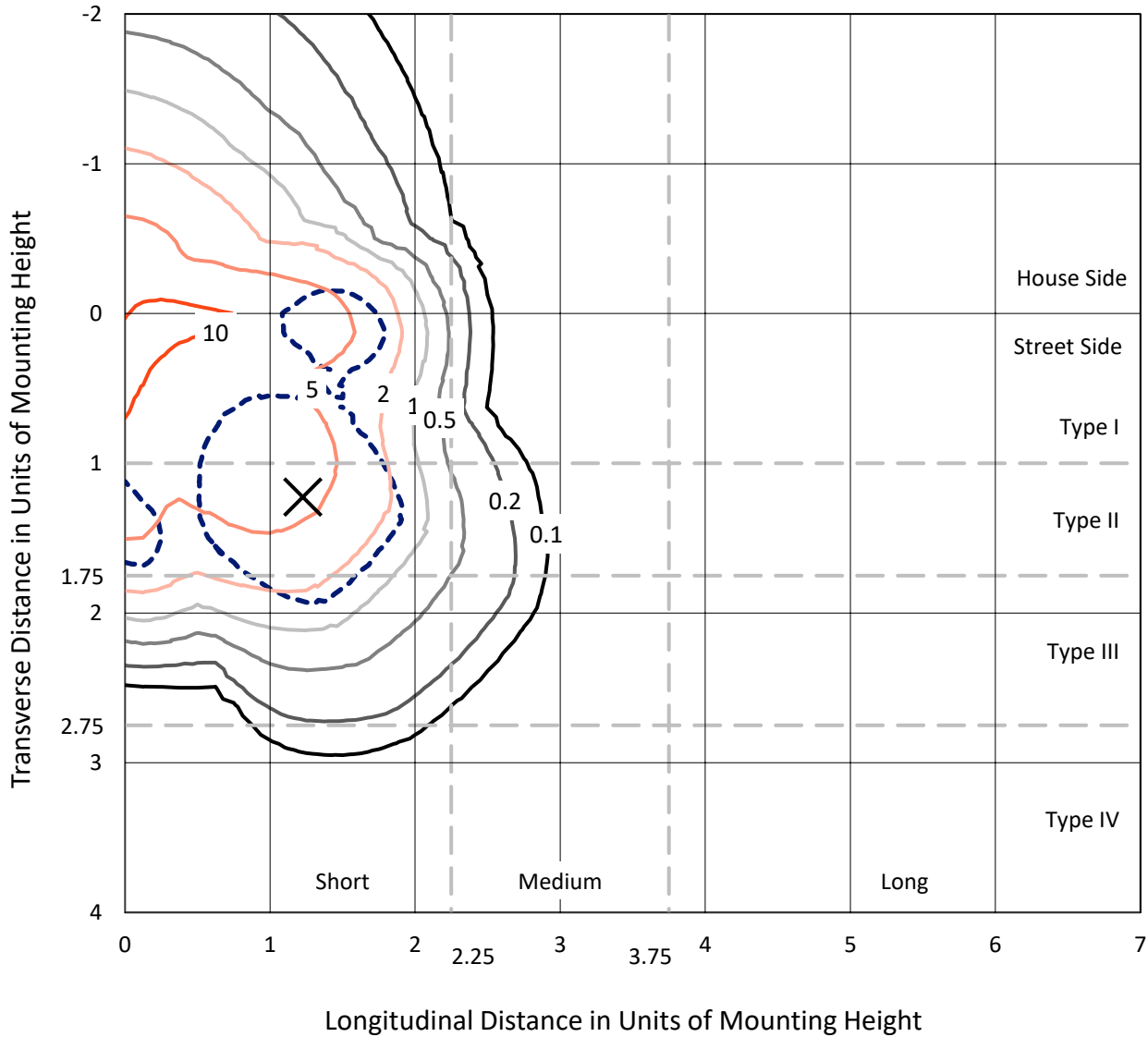
Lumens per Lamp: N/A  
Luminaire Lumens: 29371.5 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

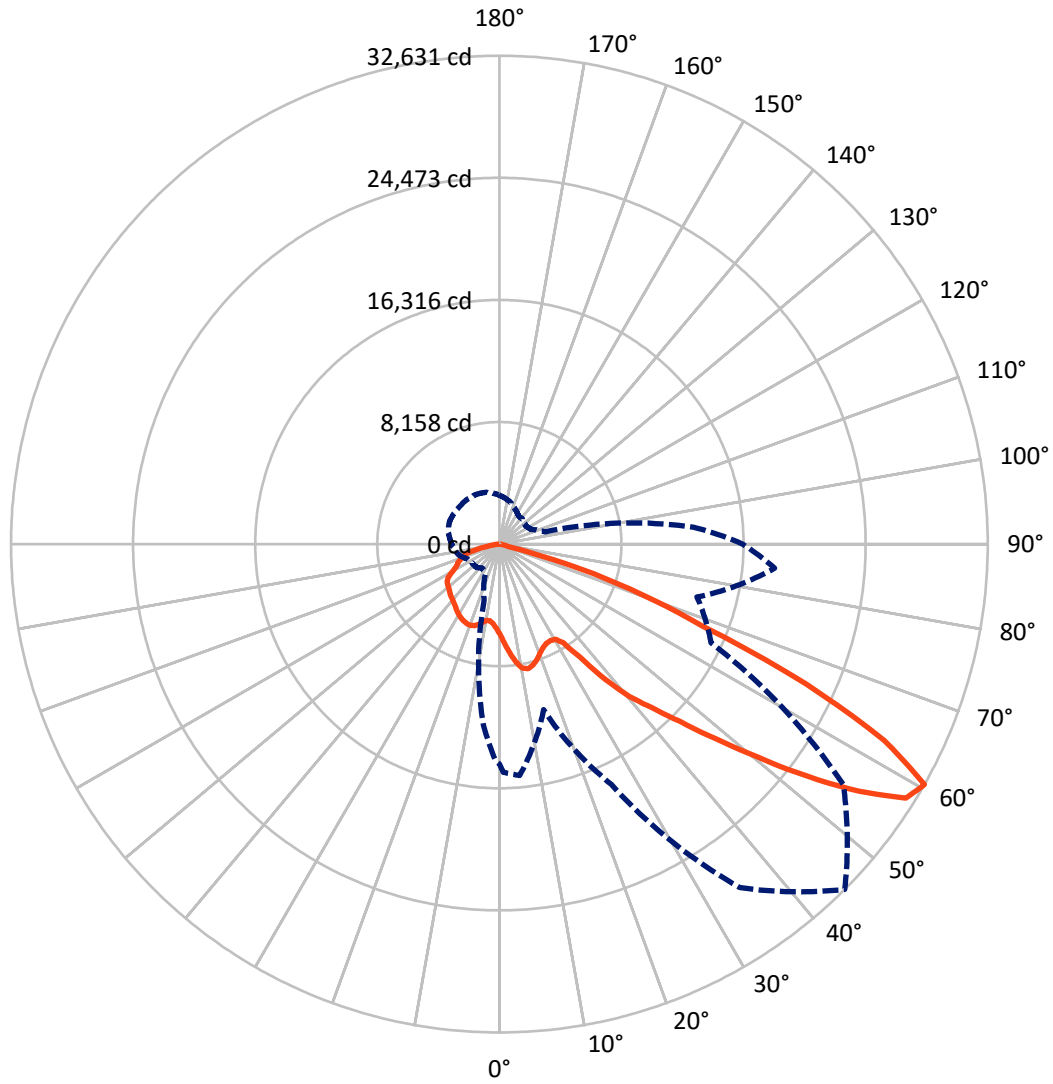
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P640739  
CATALOG NUMBER: GWS-SA5E-740-U-SLR-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640739

CATALOG NUMBER: GWS-SA5E-740-U-SLR-W-GRSWH

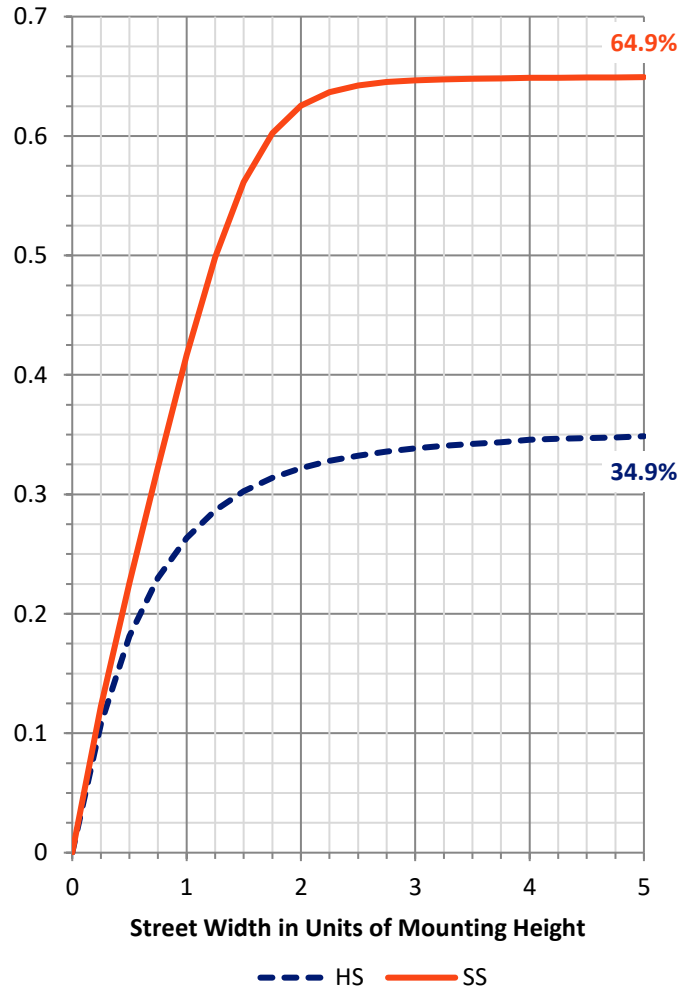
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10295.8	0.0	10295.8
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	19075.7	0.0	19075.7
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	29371.5	0.0	29371.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.7	2.0
10°-20°	1860.3	6.3
20°-30°	3021.8	10.3
30°-40°	4261.6	14.5
40°-50°	5889.5	20.1
50°-60°	7581.5	25.8
60°-70°	4803.7	16.4
70°-80°	1232.6	4.2
80°-90°	131.8	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°	29371.5	100.0
0°-180°	29371.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640739

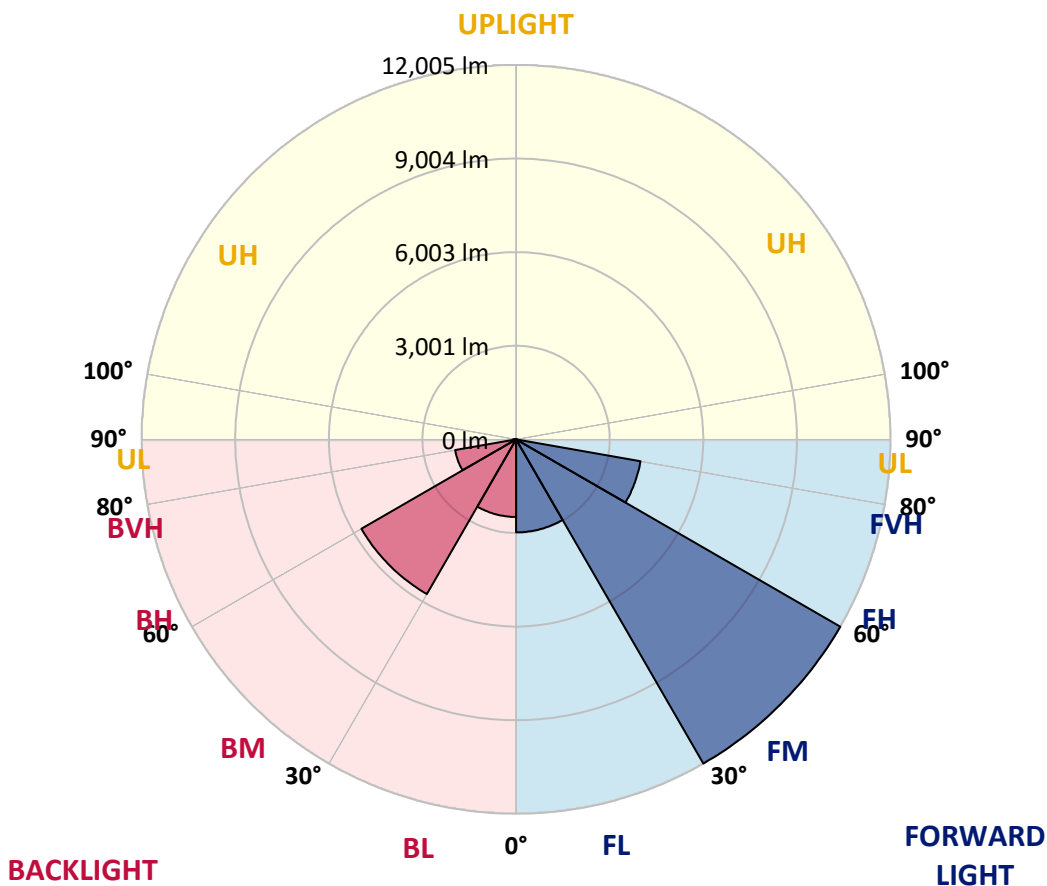
CATALOG NUMBER: GWS-SA5E-740-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2982.3	10.2			
FM (30°-60°)	12005.4	40.9			
FH (60°-80°)	4052.2	13.8			G2/5000
FVH (80°-90°)	35.8	0.1			G1/100
BL (0°-30°)	2488.5	8.5	B3/2500		
BM (30°-60°)	5727.2	19.5	B4/8500		
BH (60°-80°)	1984.1	6.8	B3/2500		G3/2500
BVH (80°-90°)	96.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





REPORT NUMBER: P640739

CATALOG NUMBER: GWS-SA5E-740-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8
2.5°	6311.0	6354.0	6380.9	6432.1	6523.6	6574.7	6631.2	6569.3	6585.5	6577.4	6477.8
5°	6685.0	6736.2	6806.2	6956.9	7126.4	7220.6	7309.4	7296.0	7212.5	7072.6	6973.0
7.5°	7034.9	7094.1	7215.2	7460.1	7710.4	7855.7	7963.4	7893.4	7823.4	7602.8	7352.5
10°	7309.4	7344.4	7508.6	7836.9	8127.6	8291.7	8423.6	8407.4	8310.6	8063.0	7726.6
12.5°	7567.8	7592.0	7769.6	8098.0	8359.0	8431.7	8539.3	8574.3	8542.0	8356.3	8025.3
15°	7845.0	7890.7	8054.9	8305.2	8423.6	8348.2	8385.9	8482.8	8574.3	8574.3	8270.2
17.5°	8103.3	8143.7	8310.6	8418.2	8305.2	8106.0	8116.8	8240.6	8458.6	8687.3	8493.6
20°	8332.1	8369.8	8533.9	8431.7	8073.7	7783.1	7775.0	7925.7	8278.3	8760.0	8733.1
22.5°	8582.4	8636.2	8773.5	8442.4	7858.4	7489.7	7487.0	7643.1	8119.5	8832.7	9007.6
25°	8937.6	9021.0	9091.0	8536.6	7742.7	7298.7	7333.6	7481.7	8068.3	8951.1	9414.0
27.5°	9465.1	9532.4	9527.0	8733.1	7737.3	7220.6	7293.3	7465.5	8159.8	9161.0	9841.9
30°	10035.6	10070.6	10014.1	9007.6	7861.1	7269.0	7376.7	7581.2	8391.3	9508.2	10471.6
32.5°	10668.1	10711.1	10603.5	9419.4	8149.1	7627.0	7863.8	7963.4	8716.9	10008.7	11139.1
35°	11394.7	11478.2	11254.8	9963.0	8996.8	8932.2	9276.7	9147.5	9408.6	10600.8	11852.2
37.5°	12159.0	12161.7	11841.5	10767.7	10660.0	10770.4	11459.3	11055.6	10875.3	11260.2	12578.9
40°	12807.6	12791.5	12299.0	11852.2	12107.9	12546.6	13378.2	12759.2	12285.5	12145.6	13181.7
42.5°	13456.2	13397.0	12899.1	12541.2	13106.4	14007.9	14947.2	14188.2	13189.8	12950.3	13776.5
45°	14285.1	14266.3	13666.1	12815.7	14007.9	15644.2	16890.2	15660.3	13725.3	13418.5	14766.9
47.5°	15622.7	15531.2	14414.3	12794.2	14853.0	17824.1	19398.5	17514.6	14099.4	13429.3	16365.4
50°	16930.6	16817.6	15307.8	12791.5	15724.9	20084.7	22358.8	19767.2	14481.6	13493.9	17991.0
52.5°	18252.0	18252.0	16774.5	13095.6	16640.0	22609.1	25779.4	22574.1	15132.9	14338.9	19990.6
55°	19037.9	19247.8	18424.3	13609.6	17711.1	25580.3	29162.3	25604.5	16139.4	15864.9	21836.7
57.5°	18039.4	18432.3	18313.9	13251.7	18343.5	27762.9	32031.2	27902.8	16637.3	16045.2	21559.5
60°	14699.6	15245.9	15517.7	11443.2	17719.1	28015.8	32631.3	28053.5	15609.2	13663.4	18467.3
62.5°	9771.9	10221.3	10635.8	8176.0	15340.1	25203.5	28860.9	25211.6	13036.4	10197.1	12794.2
65°	4793.1	5126.8	5573.6	4833.5	11984.1	21059.0	22501.5	20372.7	9430.1	5708.1	6526.3
67.5°	1254.1	1348.3	1410.2	1875.8	8585.1	15130.2	14675.3	14901.4	6058.0	1865.0	1706.2
70°	651.3	656.7	654.0	775.1	5802.3	9615.8	10113.7	9357.5	4227.9	780.5	672.8
72.5°	465.6	468.3	460.2	522.1	2801.6	5509.0	5708.1	5646.2	2214.9	462.9	460.2
75°	304.1	306.8	301.4	306.8	422.5	627.1	578.6	608.2	368.7	293.3	293.3
77.5°	180.3	183.0	180.3	185.7	180.3	180.3	166.9	166.9	158.8	158.8	161.5
80°	121.1	121.1	118.4	123.8	113.0	113.0	107.6	105.0	96.9	94.2	94.2
82.5°	72.7	75.4	72.7	72.7	67.3	67.3	61.9	59.2	51.1	51.1	48.4
85°	37.7	37.7	35.0	35.0	29.6	26.9	21.5	21.5	16.1	13.5	13.5
87.5°	5.4	5.4	2.7	2.7	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



REPORT NUMBER: P640739

CATALOG NUMBER: GWS-SA5E-740-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8
2.5°	6450.9	6397.1	6316.3	6238.3	6165.6	6090.3	6004.2	5915.4	5840.0	5762.0	5721.6
5°	6841.1	6730.8	6520.9	6335.2	6168.3	6031.1	5883.1	5756.6	5638.2	5541.3	5492.8
7.5°	7193.7	7021.5	6703.9	6410.5	6184.5	5996.1	5791.6	5603.2	5444.4	5326.0	5280.2
10°	7519.3	7314.8	6897.7	6526.3	6262.5	6052.6	5802.3	5546.7	5336.7	5180.6	5143.0
12.5°	7783.1	7548.9	7051.1	6620.5	6308.3	6082.2	5861.5	5640.8	5433.6	5231.8	5199.5
15°	8017.2	7740.0	7166.8	6679.7	6292.1	6004.2	5818.5	5791.6	5791.6	5562.8	5498.2
17.5°	8219.1	7914.9	7261.0	6706.6	6189.9	5772.7	5659.7	5893.8	6157.6	5993.4	5848.1
20°	8450.5	8081.8	7339.0	6706.6	6001.5	5479.4	5468.6	5866.9	6257.1	6259.8	6106.4
22.5°	8684.6	8275.6	7430.5	6682.4	5743.1	5140.3	5339.4	5759.3	6106.4	6254.4	6149.5
25°	9064.1	8544.7	7575.8	6663.5	5441.7	4908.8	5223.7	5616.6	5910.0	6066.1	5998.8
27.5°	9545.8	8899.9	7796.5	6693.1	5143.0	4771.6	5099.9	5430.9	5697.4	5834.6	5786.2
30°	10084.1	9309.0	8033.4	6744.3	4927.7	4701.6	4951.9	5218.3	5455.1	5592.4	5570.9
32.5°	10770.4	9753.1	8237.9	6674.3	4806.6	4666.6	4795.8	4986.9	5215.6	5301.7	5320.6
35°	11591.2	10242.9	8394.0	6399.8	4696.2	4628.9	4626.2	4744.7	4906.1	5043.4	5056.8
37.5°	12347.4	10816.1	8566.2	5928.8	4497.1	4534.7	4427.1	4497.1	4655.9	4793.1	4846.9
40°	13095.6	11397.4	8805.7	5328.7	4236.0	4324.8	4198.3	4246.8	4373.3	4553.6	4639.7
42.5°	13822.2	11922.2	9058.7	4715.1	3975.0	4031.5	3937.3	3985.7	4117.6	4343.7	4440.6
45°	14613.4	12632.7	9255.2	4136.4	3748.9	3724.7	3649.3	3719.3	3918.4	4166.0	4281.8
47.5°	16109.8	13752.3	9384.4	3751.6	3627.8	3452.9	3366.7	3517.5	3743.5	3993.8	4133.7
50°	17937.1	15372.4	9346.7	3506.7	3522.8	3173.0	3143.4	3342.5	3584.7	3845.8	3999.2
52.5°	19385.0	16962.9	8918.8	3272.6	3318.3	2995.4	2909.2	3199.9	3431.3	3697.8	3856.6
55°	20491.1	17498.5	7605.5	2995.4	2984.6	2866.2	2685.9	3051.9	3277.9	3525.5	3697.8
57.5°	19589.6	16306.2	5638.2	2613.2	2548.6	2610.5	2435.6	2801.6	3089.5	3334.5	3487.9
60°	16257.8	13001.4	3140.7	2314.5	2131.5	2282.2	2255.3	2537.8	2885.0	3143.4	3275.2
62.5°	11036.8	8657.7	1862.3	1830.0	1727.8	1943.1	2085.7	2271.4	2613.2	2823.1	2946.9
65°	5500.9	4206.4	1238.0	1369.8	1383.3	1598.6	1867.7	2072.3	2357.5	2572.8	2696.6
67.5°	1595.9	1307.9	941.9	1046.9	1192.2	1364.5	1579.8	1822.0	2099.2	2354.8	2500.2
70°	689.0	697.0	748.2	872.0	1014.6	1192.2	1407.5	1644.3	1878.5	2074.9	2185.3
72.5°	487.1	506.0	562.5	689.0	823.5	993.1	1208.4	1437.1	1606.7	1805.8	1921.5
75°	312.2	325.6	371.4	468.3	567.9	732.0	936.6	1146.5	1321.4	1464.0	1574.4
77.5°	172.2	174.9	212.6	269.1	336.4	441.4	592.1	756.2	885.4	966.2	1065.7
80°	99.6	99.6	118.4	153.4	193.8	258.4	341.8	422.5	500.6	551.7	600.1
82.5°	53.8	53.8	61.9	83.4	105.0	142.6	191.1	231.4	279.9	306.8	339.1
85°	16.1	16.1	21.5	29.6	37.7	53.8	75.4	96.9	118.4	137.3	156.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8
2.5°	5713.5	5675.8	5654.3	5627.4	5635.5	5611.2	5597.8	5605.9	5557.4	5605.9	5654.3
5°	5474.0	5420.2	5377.1	5342.1	5326.0	5293.7	5274.8	5274.8	5245.2	5293.7	5352.9
7.5°	5264.1	5221.0	5199.5	5178.0	5153.7	5124.1	5091.8	5081.1	5062.2	5113.4	5164.5
10°	5124.1	5129.5	5143.0	5172.6	5167.2	5148.3	5099.9	5073.0	5073.0	5132.2	5210.2
12.5°	5188.7	5245.2	5277.5	5331.4	5342.1	5326.0	5277.5	5256.0	5309.8	5398.6	5527.8
15°	5439.0	5476.7	5503.6	5546.7	5544.0	5530.5	5492.8	5509.0	5686.6	5858.8	5974.6
17.5°	5710.8	5667.8	5662.4	5689.3	5697.4	5681.2	5659.7	5732.3	6025.7	6187.2	6246.4
20°	5907.3	5759.3	5727.0	5737.7	5759.3	5751.2	5751.2	5869.6	6173.7	6249.1	6173.7
22.5°	5966.5	5756.6	5708.1	5710.8	5740.4	5743.1	5756.6	5880.4	6058.0	6060.7	5945.0
25°	5872.3	5670.4	5635.5	5640.8	5675.8	5673.1	5678.5	5748.5	5826.5	5794.2	5708.1
27.5°	5694.7	5519.7	5509.0	5538.6	5584.3	5560.1	5544.0	5562.8	5600.5	5560.1	5484.8
30°	5492.8	5344.8	5350.2	5406.7	5455.1	5414.8	5374.4	5385.2	5387.9	5344.8	5258.7
32.5°	5280.2	5169.9	5188.7	5247.9	5304.4	5261.4	5218.3	5212.9	5161.8	5110.7	5027.2
35°	5067.6	5024.6	5048.8	5097.2	5145.7	5110.7	5083.8	5067.6	4957.3	4881.9	4811.9
37.5°	4873.8	4906.1	4949.2	4978.8	4994.9	4992.3	4976.1	4938.4	4793.1	4704.3	4612.8
40°	4701.6	4801.2	4846.9	4860.4	4884.6	4879.2	4876.5	4822.7	4631.6	4537.4	4432.5
42.5°	4545.5	4685.5	4763.5	4777.0	4790.4	4793.1	4785.0	4707.0	4489.0	4378.7	4279.1
45°	4394.8	4577.8	4677.4	4663.9	4682.8	4682.8	4690.8	4588.6	4349.0	4236.0	4131.1
47.5°	4262.9	4478.2	4569.7	4553.6	4564.3	4572.4	4580.5	4462.1	4195.6	4088.0	3980.3
50°	4141.8	4370.6	4448.6	4454.0	4454.0	4472.8	4470.2	4354.4	4066.5	3950.7	3843.1
52.5°	4012.6	4260.2	4343.7	4378.7	4389.4	4397.5	4359.8	4225.3	3934.6	3794.7	3695.1
55°	3861.9	4147.2	4222.6	4268.3	4289.8	4284.5	4233.3	4096.1	3800.0	3660.1	3547.1
57.5°	3633.2	3905.0	4012.6	4034.2	4069.2	4047.6	3988.4	3872.7	3584.7	3444.8	3329.1
60°	3382.9	3579.4	3665.5	3684.3	3657.4	3665.5	3657.4	3547.1	3296.8	3186.4	3068.0
62.5°	3054.6	3229.5	3321.0	3345.2	3299.5	3329.1	3318.3	3181.0	2930.8	2815.0	2710.1
65°	2807.0	2998.0	3105.7	3119.2	3105.7	3119.2	3081.5	2914.6	2677.8	2559.4	2451.7
67.5°	2613.2	2809.7	2922.7	2960.4	2946.9	2944.2	2885.0	2691.2	2446.3	2317.2	2179.9
70°	2279.5	2451.7	2597.0	2688.6	2688.6	2637.4	2524.4	2344.1	2147.6	2037.3	1929.6
72.5°	2018.4	2236.4	2379.1	2473.3	2492.1	2462.5	2303.7	2112.6	1886.6	1776.2	1663.2
75°	1663.2	1875.8	2029.2	2153.0	2177.2	2144.9	1961.9	1773.5	1563.6	1456.0	1342.9
77.5°	1111.5	1238.0	1361.8	1474.8	1450.6	1472.1	1348.3	1205.7	1076.5	995.8	944.6
80°	627.1	710.5	748.2	810.1	810.1	810.1	729.3	662.0	589.4	543.6	492.5
82.5°	355.2	409.1	425.2	476.4	489.8	492.5	438.7	395.6	349.9	325.6	290.7
85°	164.2	193.8	196.5	226.1	236.8	258.4	234.1	204.5	177.6	166.9	145.3
87.5°	5.4	16.1	21.5	40.4	53.8	61.9	67.3	67.3	56.5	51.1	43.1
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: P640739

CATALOG NUMBER: GWS-SA5E-740-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8
2.5°	5713.5	5778.1	5853.5	5907.3	6004.2	6084.9	6168.3	6259.8	6327.1	6311.0
5°	5425.5	5533.2	5670.4	5796.9	5977.3	6160.3	6362.1	6569.3	6690.4	6685.0
7.5°	5264.1	5417.5	5584.3	5753.9	5966.5	6230.2	6539.7	6862.7	7026.8	7034.9
10°	5350.2	5514.4	5627.4	5770.0	5993.4	6324.4	6695.8	7083.4	7271.7	7309.4
12.5°	5622.0	5608.6	5600.5	5702.7	5971.9	6391.7	6846.5	7309.4	7522.0	7567.8
15°	5880.4	5603.2	5436.3	5506.3	5875.0	6434.8	6994.5	7557.0	7796.5	7845.0
17.5°	5928.8	5509.0	5199.5	5247.9	5721.6	6448.2	7137.2	7799.2	8057.6	8103.3
20°	5794.2	5387.9	5027.2	4960.0	5527.8	6413.2	7226.0	8001.1	8283.6	8332.1
22.5°	5624.7	5280.2	4898.1	4723.1	5291.0	6378.2	7325.6	8213.7	8539.3	8582.4
25°	5447.1	5143.0	4777.0	4510.5	5021.9	6356.7	7492.4	8493.6	8886.5	8937.6
27.5°	5258.7	4976.1	4672.0	4408.3	4774.3	6383.6	7729.3	8945.7	9392.4	9465.1
30°	5056.8	4809.3	4604.7	4373.3	4604.7	6407.8	7990.3	9408.6	9933.4	10035.6
32.5°	4846.9	4655.9	4534.7	4389.4	4499.8	6351.3	8219.1	9928.0	10579.3	10668.1
35°	4637.0	4499.8	4445.9	4419.0	4359.8	6144.1	8404.8	10452.8	11316.7	11394.7
37.5°	4440.6	4338.3	4322.1	4351.7	4144.5	5805.0	8620.1	11120.2	12040.6	12159.0
40°	4257.5	4163.4	4160.7	4155.3	3907.7	5342.1	8910.7	11798.4	12753.8	12807.6
42.5°	4088.0	3969.6	3991.1	3926.5	3713.9	4841.5	9185.2	12377.0	13418.5	13456.2
45°	3937.3	3781.2	3805.4	3724.7	3622.4	4316.8	9427.4	13060.6	14260.9	14285.1
47.5°	3792.0	3625.1	3557.8	3552.4	3606.3	3832.3	9664.3	14376.6	15579.6	15622.7
50°	3657.4	3477.1	3286.0	3404.4	3506.7	3469.0	9960.3	15786.8	16941.4	16930.6
52.5°	3528.2	3291.4	3019.6	3248.3	3248.3	3199.9	9876.9	16642.6	18066.3	18252.0
55°	3380.2	2992.7	2742.4	2987.3	2868.9	2957.7	8399.4	16922.5	18774.1	19037.9
57.5°	3086.9	2624.0	2406.0	2537.8	2360.2	2742.4	6033.8	15533.9	17571.1	18039.4
60°	2804.3	2352.1	2209.5	2185.3	1953.8	2236.4	3910.4	12161.7	14462.7	14699.6
62.5°	2473.3	2118.0	1996.9	1811.2	1571.7	1628.2	2368.3	8003.8	9718.1	9771.9
65°	2223.0	1918.9	1687.4	1466.7	1286.4	1181.5	1399.4	3859.2	4857.7	4793.1
67.5°	1908.1	1644.3	1423.7	1264.9	1116.9	985.0	931.2	1146.5	1297.2	1254.1
70°	1698.2	1445.2	1232.6	1081.9	944.6	812.8	718.6	675.5	662.0	651.3
72.5°	1464.0	1243.4	1022.7	877.3	748.2	627.1	540.9	489.8	476.4	465.6
75°	1168.0	960.8	758.9	621.7	508.6	422.5	366.0	322.9	314.9	304.1
77.5°	772.4	616.3	452.1	368.7	301.4	255.7	218.0	191.1	185.7	180.3
80°	425.2	355.2	277.2	223.4	180.3	156.1	142.6	126.5	123.8	121.1
82.5°	253.0	212.6	158.8	126.5	105.0	94.2	86.1	78.0	75.4	72.7
85°	126.5	99.6	70.0	59.2	53.8	48.4	48.4	40.4	37.7	37.7
87.5°	32.3	26.9	16.1	13.5	13.5	13.5	10.8	8.1	8.1	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)