

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: P641230

Luminaire Tested: GWS-SA5F-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT 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: 32488.3 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

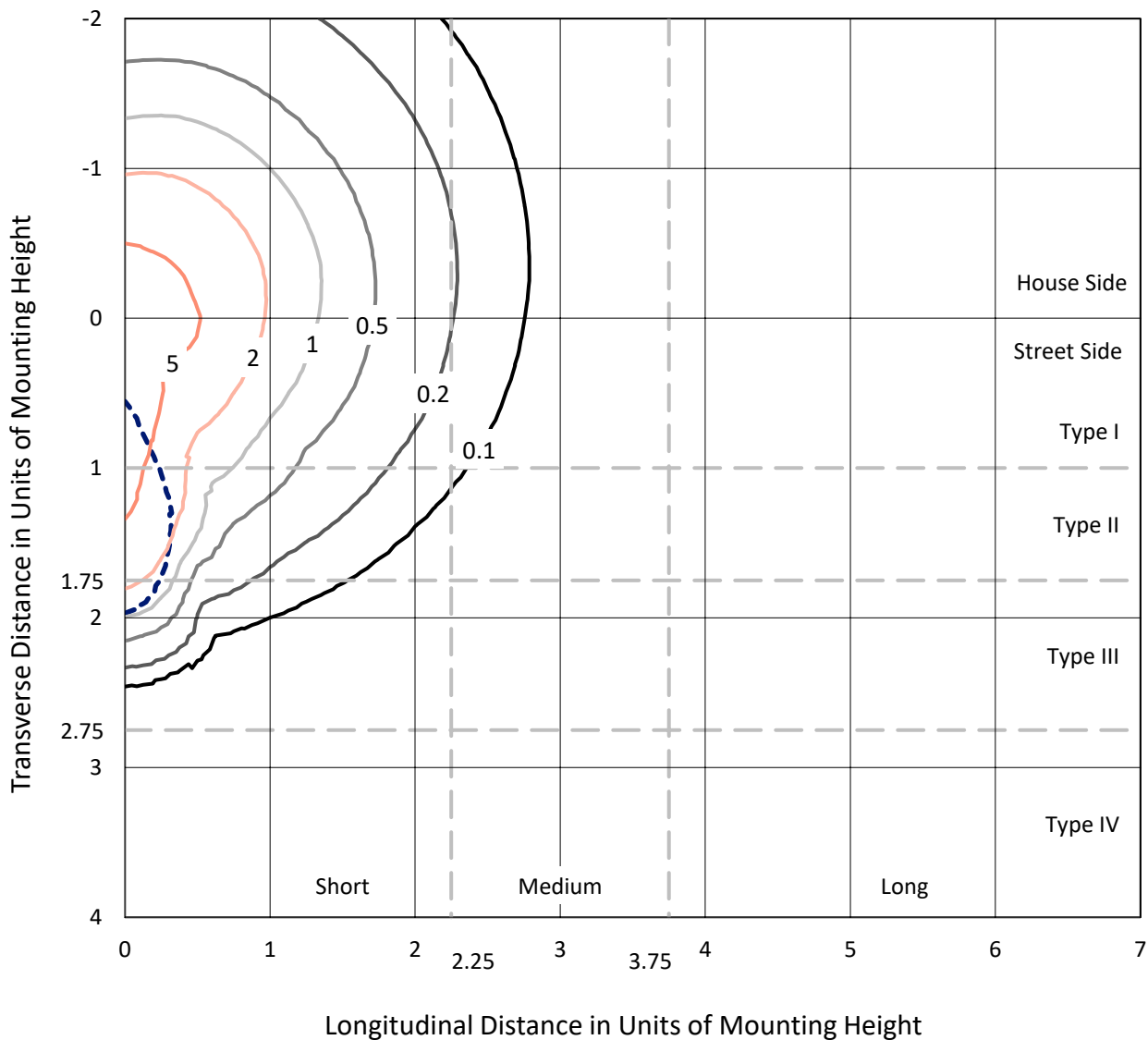
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

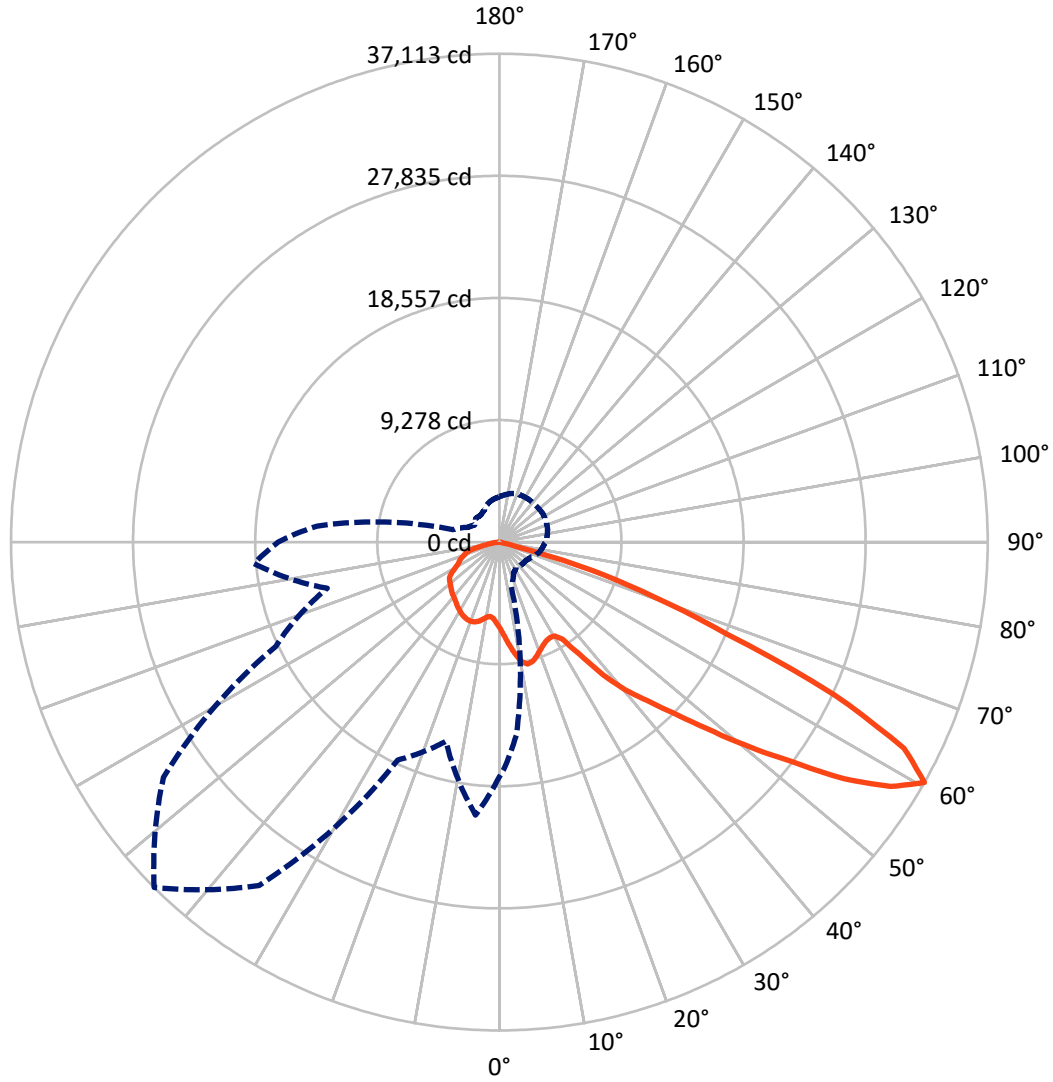
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11114.0	0.0	11114.0
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	21374.3	0.0	21374.3
	% Fixture	65.8	0.0	65.8
Total	Lumens	32488.3	0.0	32488.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.2	2.0
10°-20°	2053.4	6.3
20°-30°	3344.1	10.3
30°-40°	4697.8	14.5
40°-50°	6428.4	19.8
50°-60°	8247.3	25.4
60°-70°	5553.4	17.1
70°-80°	1388.4	4.3
80°-90°	135.4	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°	32488.3	100.0
0°-180°	32488.3	100.0

Coefficient of Utilization



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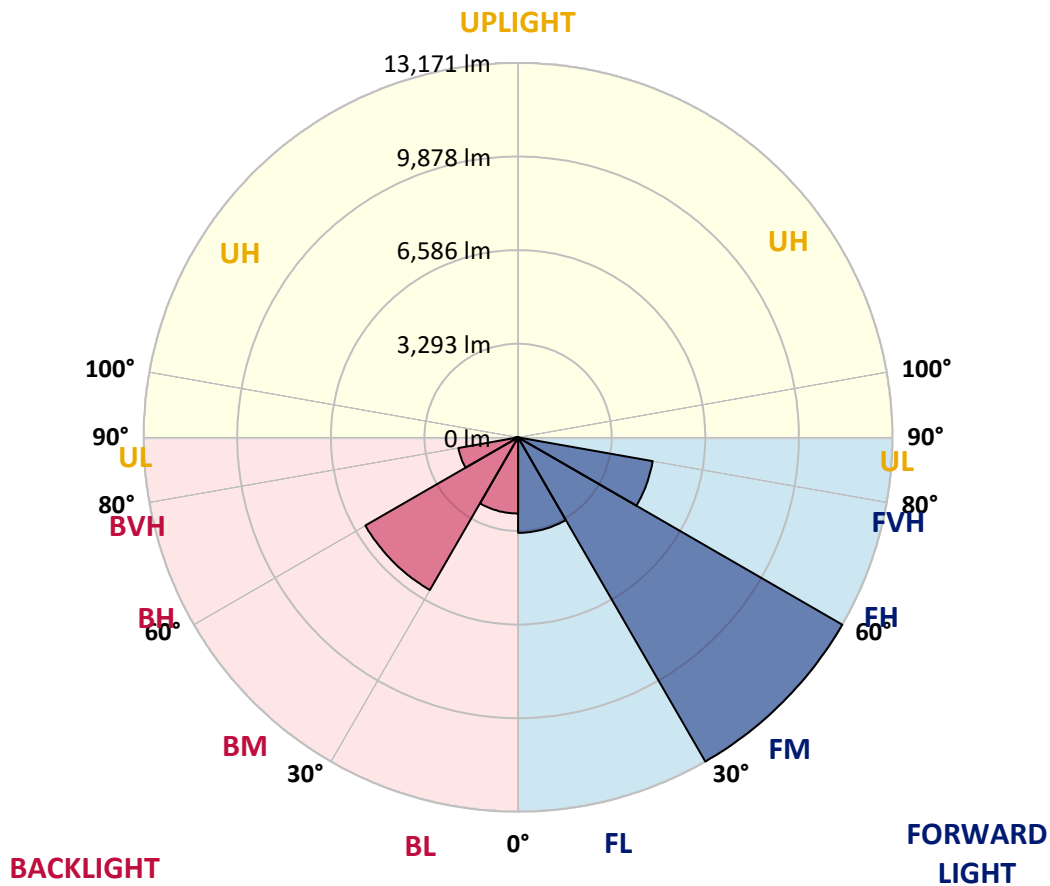
CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3358.5	10.3			
FM (30°-60°)	13171.0	40.5			
FH (60°-80°)	4809.6	14.8			G2/5000
FVH (80°-90°)	35.2	0.1			G1/100
BL (0°-30°)	2679.1	8.2	B4/5000		
BM (30°-60°)	6202.5	19.1	B4/8500		
BH (60°-80°)	2132.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	100.2	0.3			G2/225
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°	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5
2.5°	6932.5	6917.6	6902.6	6785.9	6756.0	6672.2	6612.4	6537.6	6429.9	6370.0	6319.2
5°	7366.4	7342.4	7261.7	7022.3	6866.7	6696.2	6555.5	6400.0	6235.4	6127.7	6043.9
7.5°	7776.3	7770.3	7632.7	7237.7	6986.4	6741.0	6549.6	6322.2	6085.8	5924.2	5816.5
10°	8156.3	8111.4	7946.8	7432.2	7103.1	6821.8	6615.4	6364.0	6088.8	5870.4	5726.7
12.5°	8491.4	8434.5	8207.1	7611.7	7204.8	6857.7	6633.3	6426.9	6244.4	6061.9	5897.3
15°	8766.6	8697.8	8467.4	7779.3	7294.6	6836.8	6522.6	6361.1	6423.9	6504.7	6322.2
17.5°	9024.0	8952.2	8670.9	7902.0	7321.5	6708.1	6250.3	6181.5	6498.7	6866.7	6782.9
20°	9239.4	9158.6	8832.5	7961.8	7273.6	6462.8	5897.3	6017.0	6435.9	6875.7	7010.3
22.5°	9472.8	9406.9	9015.0	8048.6	7213.8	6124.7	5601.1	5894.3	6328.1	6714.1	6917.6
25°	9846.8	9766.0	9299.2	8201.2	7183.9	5807.5	5388.6	5774.6	6178.5	6528.6	6687.2
27.5°	10388.3	10238.7	9688.2	8467.4	7216.8	5508.3	5254.0	5628.0	6005.0	6304.2	6432.9
30°	10977.8	10798.2	10119.0	8742.7	7264.6	5325.8	5182.2	5460.5	5738.7	6037.9	6178.5
32.5°	11674.9	11516.3	10579.8	8949.2	7162.9	5242.0	5128.3	5277.9	5499.4	5738.7	5855.4
35°	12506.7	12222.4	11082.5	9116.7	6833.8	5119.4	5080.5	5077.5	5194.2	5427.5	5559.2
37.5°	13401.3	13096.1	11701.8	9296.2	6322.2	4924.9	4966.8	4841.1	4948.8	5134.3	5283.9
40°	14134.3	13814.2	12327.2	9541.6	5681.9	4619.7	4715.4	4580.8	4646.6	4838.1	5005.7
42.5°	14852.4	14511.3	12910.6	9819.8	5062.5	4320.5	4368.4	4317.5	4338.4	4538.9	4772.3
45°	15794.9	15411.9	13628.7	10017.3	4506.0	4084.1	4039.2	3952.5	4063.2	4323.5	4571.8
47.5°	17368.7	16911.0	14804.6	10146.0	4102.1	3949.5	3743.0	3692.2	3829.8	4120.0	4377.3
50°	19208.8	18813.9	16683.6	10140.0	3799.9	3835.8	3455.8	3410.9	3638.3	3931.5	4203.8
52.5°	20716.8	20315.9	18290.3	9840.8	3551.5	3593.4	3288.2	3162.6	3473.7	3746.0	4018.3
55°	21934.6	21482.8	19029.3	8590.1	3237.4	3207.5	3105.7	2875.3	3267.3	3560.5	3814.8
57.5°	21279.3	20740.7	18134.7	6531.6	2914.2	2725.7	2791.6	2621.0	2986.0	3354.1	3599.4
60°	17841.5	17356.8	14732.8	3476.7	2564.2	2276.9	2414.6	2441.5	2677.9	3105.7	3357.1
62.5°	12255.4	11902.3	9984.4	2109.4	2022.6	1828.1	2043.6	2238.0	2414.6	2776.6	2995.0
65°	5996.0	5891.3	4993.7	1352.4	1415.2	1478.1	1693.5	1929.9	2190.2	2507.3	2737.7
67.5°	1651.6	1663.6	1514.0	1056.2	1116.0	1289.6	1460.1	1648.6	1908.9	2202.1	2435.5
70°	727.1	739.0	763.0	813.8	927.5	1086.1	1262.6	1457.1	1696.5	1941.8	2166.2
72.5°	505.7	517.6	553.5	619.4	721.1	870.7	1038.2	1223.7	1472.1	1678.5	1864.0
75°	311.2	320.1	353.1	409.9	478.7	592.4	757.0	927.5	1145.9	1334.4	1499.0
77.5°	164.6	158.6	179.5	218.4	278.3	338.1	448.8	556.5	712.1	864.7	1002.3
80°	89.8	86.8	98.7	119.7	137.6	185.5	260.3	332.1	421.9	508.6	583.4
82.5°	38.9	35.9	38.9	50.9	62.8	89.8	131.6	182.5	233.4	293.2	341.1
85°	0.0	0.0	0.0	3.0	15.0	23.9	44.9	65.8	95.7	131.6	161.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	26.9
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°	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5
2.5°	6289.2	6214.4	6208.5	6148.6	6154.6	6157.6	6097.8	6073.8	6094.8	6118.7	6106.7
5°	6014.0	5936.2	5903.3	5846.4	5840.4	5813.5	5789.6	5759.7	5780.6	5801.5	5813.5
7.5°	5774.6	5723.8	5702.8	5687.8	5693.8	5681.9	5634.0	5607.1	5604.1	5613.0	5625.0
10°	5696.8	5654.9	5681.9	5723.8	5753.7	5774.6	5723.8	5678.9	5637.0	5619.0	5619.0
12.5°	5864.4	5810.5	5864.4	5909.3	5969.1	5984.1	5927.2	5879.3	5864.4	5882.3	5918.2
15°	6235.4	6109.7	6106.7	6133.7	6181.5	6205.5	6151.6	6127.7	6127.7	6241.4	6331.1
17.5°	6606.4	6400.0	6313.2	6298.2	6328.1	6337.1	6292.2	6271.3	6325.2	6546.6	6714.1
20°	6866.7	6615.4	6426.9	6391.0	6400.0	6402.9	6367.0	6352.1	6429.9	6699.2	6839.8
22.5°	6839.8	6654.3	6423.9	6379.0	6394.0	6388.0	6355.1	6349.1	6411.9	6645.3	6711.1
25°	6654.3	6510.7	6316.2	6286.3	6310.2	6307.2	6274.3	6259.3	6286.3	6441.8	6447.8
27.5°	6441.8	6316.2	6148.6	6139.6	6178.5	6199.5	6142.6	6097.8	6088.8	6193.5	6169.6
30°	6187.5	6094.8	5960.1	5966.1	6037.9	6049.9	5981.1	5915.2	5897.3	5954.1	5921.2
32.5°	5885.3	5855.4	5783.6	5798.6	5867.4	5891.3	5819.5	5750.7	5729.7	5747.7	5678.9
35°	5628.0	5616.0	5622.0	5649.0	5708.8	5726.7	5666.9	5613.0	5583.1	5520.3	5430.5
37.5°	5361.7	5394.6	5481.4	5532.3	5565.2	5559.2	5526.3	5487.4	5439.5	5322.8	5212.1
40°	5113.4	5197.2	5352.7	5409.6	5421.6	5424.5	5400.6	5367.7	5307.9	5152.3	5026.6
42.5°	4921.9	5014.6	5221.1	5307.9	5313.8	5319.8	5295.9	5269.0	5185.2	4978.7	4856.1
45°	4721.4	4844.1	5086.5	5191.2	5185.2	5182.2	5161.3	5149.3	5050.5	4811.2	4676.5
47.5°	4550.9	4694.5	4954.8	5044.6	5041.6	5038.6	5023.6	5023.6	4924.9	4664.6	4512.0
50°	4383.3	4547.9	4820.2	4895.0	4900.9	4895.0	4889.0	4898.0	4781.3	4503.0	4353.4
52.5°	4200.8	4386.3	4670.6	4739.4	4775.3	4790.2	4790.2	4769.3	4631.7	4341.4	4176.9
55°	4000.3	4176.9	4506.0	4598.7	4628.7	4655.6	4655.6	4613.7	4485.1	4191.8	4015.3
57.5°	3752.0	3907.6	4167.9	4260.7	4332.5	4350.4	4350.4	4281.6	4176.9	3895.6	3752.0
60°	3482.7	3617.4	3793.9	3892.6	3946.5	3910.6	3937.5	3919.6	3835.8	3575.5	3455.8
62.5°	3123.7	3261.3	3455.8	3557.5	3581.5	3545.6	3581.5	3578.5	3464.8	3231.4	3087.8
65°	2866.4	3001.0	3192.5	3324.1	3363.0	3354.1	3378.0	3342.1	3201.5	2980.1	2842.4
67.5°	2561.2	2704.8	2926.2	3072.8	3153.6	3162.6	3195.5	3120.7	2977.1	2734.7	2561.2
70°	2271.0	2393.6	2564.2	2701.8	2815.5	2872.3	2878.3	2770.6	2591.1	2390.6	2265.0
72.5°	1965.8	2091.4	2297.9	2447.5	2591.1	2656.9	2656.9	2525.3	2330.8	2109.4	1974.7
75°	1594.8	1711.4	1899.9	2061.5	2226.1	2309.8	2306.9	2193.2	1977.7	1768.3	1627.7
77.5°	1080.1	1166.9	1286.6	1409.2	1433.2	1499.0	1531.9	1388.3	1268.6	1154.9	1029.3
80°	628.3	682.2	748.0	816.8	831.8	852.7	798.9	745.0	682.2	607.4	550.5
82.5°	368.0	403.9	436.8	490.7	499.7	505.7	457.8	433.8	383.0	338.1	302.2
85°	179.5	191.5	221.4	248.3	236.4	230.4	209.4	185.5	164.6	146.6	128.7
87.5°	35.9	35.9	53.9	50.9	41.9	35.9	20.9	26.9	6.0	6.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5
2.5°	6145.6	6196.5	6259.3	6343.1	6438.8	6540.6	6639.3	6714.1	6788.9	6899.6	6881.7
5°	5831.5	5918.2	6017.0	6145.6	6301.2	6477.7	6675.2	6872.7	7085.1	7264.6	7342.4
7.5°	5649.0	5744.7	5861.4	6028.9	6229.4	6444.8	6723.1	7043.2	7387.3	7623.7	7770.3
10°	5649.0	5771.6	5924.2	6085.8	6262.3	6483.7	6827.8	7228.7	7671.6	7982.7	8153.3
12.5°	5975.1	6097.8	6130.7	6124.7	6223.4	6468.8	6911.6	7423.2	7952.8	8281.9	8491.4
15°	6483.7	6525.6	6277.3	6049.9	6064.8	6361.1	6950.5	7578.8	8195.2	8590.1	8817.5
17.5°	6824.8	6714.1	6271.3	5873.4	5789.6	6178.5	6950.5	7728.4	8452.5	8898.3	9110.7
20°	6851.7	6576.5	6118.7	5702.8	5487.4	5936.2	6902.6	7842.1	8700.8	9194.5	9421.9
22.5°	6615.4	6343.1	5957.1	5556.2	5239.0	5643.0	6824.8	7928.9	8913.3	9472.8	9754.0
25°	6346.1	6118.7	5792.6	5406.6	5068.5	5346.8	6753.0	8075.5	9209.5	9849.8	10134.0
27.5°	6082.8	5891.3	5595.1	5280.9	4972.8	5089.4	6708.1	8290.9	9562.5	10385.3	10630.7
30°	5825.5	5651.9	5382.7	5161.3	4921.9	4921.9	6669.2	8539.3	10029.3	10986.7	11232.1
32.5°	5565.2	5400.6	5182.2	5044.6	4892.0	4856.1	6561.5	8772.6	10511.0	11645.0	11896.3
35°	5322.8	5158.3	4990.7	4933.9	4877.0	4805.2	6295.2	8955.1	10980.7	12413.9	12629.4
37.5°	5095.4	4936.8	4811.2	4796.2	4802.2	4667.6	5876.3	9107.7	11567.2	13200.8	13314.5
40°	4898.0	4721.4	4622.7	4619.7	4649.6	4446.2	5346.8	9326.2	12237.4	13868.1	13820.2
42.5°	4721.4	4535.9	4416.2	4443.2	4425.2	4224.7	4829.1	9526.6	12820.8	14493.4	14397.6
45°	4547.9	4368.4	4200.8	4239.7	4218.8	4087.1	4389.3	9673.2	13467.1	15244.4	15256.4
47.5°	4380.3	4203.8	4036.2	3988.4	3985.4	4045.2	4051.2	9721.1	14520.3	16453.2	16180.9
50°	4224.7	4048.2	3874.7	3713.1	3775.9	3961.4	3799.9	9685.2	16097.1	17787.6	17027.6
52.5°	4063.2	3895.6	3704.1	3413.9	3578.5	3761.0	3575.5	9556.5	17060.6	18966.5	18511.7
55°	3877.7	3719.1	3458.8	3105.7	3306.2	3345.1	3345.1	8311.9	17470.5	20133.4	20414.6
57.5°	3629.3	3419.9	3007.0	2722.7	2902.3	2752.7	3099.7	5816.5	16794.3	19765.3	20857.4
60°	3348.1	3123.7	2686.8	2483.4	2537.2	2273.9	2642.0	3647.3	13918.9	16818.2	18709.2
62.5°	2977.1	2770.6	2408.6	2250.0	2139.3	1855.1	2127.3	2306.9	9541.6	12488.7	13778.3
65°	2728.7	2501.3	2178.2	1968.8	1741.4	1493.0	1412.2	1514.0	5131.3	6989.4	7860.1
67.5°	2435.5	2211.1	1905.9	1642.6	1460.1	1280.6	1140.0	1104.1	1759.3	2327.8	2519.3
70°	2157.3	1941.8	1687.5	1442.2	1259.6	1083.1	945.5	846.7	813.8	807.8	795.9
72.5°	1873.0	1672.5	1460.1	1232.7	1032.3	870.7	748.0	634.3	586.4	571.5	556.5
75°	1534.9	1376.3	1163.9	918.6	757.0	607.4	511.6	436.8	394.9	380.0	362.0
77.5°	987.4	915.6	730.1	592.4	457.8	362.0	311.2	263.3	236.4	230.4	215.4
80°	526.6	490.7	403.9	341.1	272.3	221.4	194.5	167.6	152.6	146.6	140.6
82.5°	293.2	266.3	224.4	197.5	158.6	134.6	119.7	107.7	98.7	95.7	92.8
85°	131.6	113.7	89.8	83.8	74.8	68.8	65.8	59.8	56.8	53.9	50.9
87.5°	6.0	12.0	15.0	12.0	12.0	18.0	20.9	20.9	18.0	18.0	15.0
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: P641230

CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5
2.5°	6992.4	7082.1	7091.1	7121.0	7082.1	7073.2	7010.3	6974.4	6941.5	6932.5
5°	7536.9	7716.4	7788.3	7839.1	7791.2	7767.3	7629.7	7486.1	7405.3	7366.4
7.5°	8096.4	8365.7	8506.3	8569.2	8575.2	8467.4	8231.1	7961.8	7827.1	7776.3
10°	8596.1	8928.2	9113.7	9233.4	9191.5	9059.9	8736.7	8371.7	8201.2	8156.3
12.5°	8967.1	9284.3	9427.9	9505.7	9502.7	9430.9	9125.7	8730.7	8536.3	8491.4
15°	9206.5	9395.0	9403.9	9421.9	9472.8	9568.5	9409.9	9044.9	8829.5	8766.6
17.5°	9395.0	9320.2	9179.5	9131.7	9245.4	9511.7	9607.4	9311.2	9077.8	9024.0
20°	9514.7	9137.7	8889.3	8796.6	8928.2	9362.1	9727.1	9550.6	9308.2	9239.4
22.5°	9607.4	8967.1	8566.2	8503.3	8641.0	9200.5	9849.8	9834.8	9568.5	9472.8
25°	9754.0	8853.4	8338.8	8293.9	8422.6	9122.7	10014.3	10220.8	9984.4	9846.8
27.5°	9984.4	8841.4	8222.1	8207.1	8383.7	9191.5	10250.7	10786.3	10490.1	10388.3
30°	10304.5	8955.1	8249.0	8278.9	8494.4	9439.9	10618.7	11432.5	11136.3	10977.8
32.5°	10765.3	9260.3	8658.9	8787.6	8946.2	9837.8	11157.3	12132.7	11908.3	11674.9
35°	11372.7	10098.1	9870.7	10418.2	10268.6	10708.5	11806.5	12982.4	12710.1	12506.7
37.5°	12183.5	11815.5	12025.0	12779.0	12416.9	12354.1	12599.4	13754.4	13604.8	13401.3
40°	13320.5	13395.3	13781.3	14771.7	14248.0	13844.1	13571.8	14334.8	14385.7	14134.3
42.5°	14074.5	14418.6	15349.1	16474.1	15753.0	14786.6	14385.7	15076.8	15079.8	14852.4
45°	14355.8	15256.4	17201.2	18496.7	17290.9	15325.2	14834.5	16085.2	16055.2	15794.9
47.5°	14254.0	15962.5	19125.1	21105.8	19265.7	15708.2	14771.7	17521.3	17763.7	17368.7
50°	14041.6	16671.6	21372.1	24301.3	21689.2	16115.1	14675.9	19113.1	19514.0	19208.8
52.5°	14257.0	17461.5	24029.0	27604.5	24729.1	16764.3	15322.2	21156.6	21084.8	20716.8
55°	14939.2	18395.0	27257.4	31754.4	28068.2	17862.4	16982.8	23104.5	22374.4	21934.6
57.5°	14906.3	19062.2	30087.8	35036.7	30973.5	18763.0	17560.2	23310.9	21835.8	21279.3
60°	13530.0	18757.0	31165.0	37113.1	31850.2	18266.3	15660.3	20821.5	18424.9	17841.5
62.5°	10098.1	16644.7	29076.5	34513.1	29369.8	15777.0	11776.6	14945.2	13239.7	12255.4
65°	6459.8	13021.3	24444.9	27960.5	24208.5	12066.9	7013.3	8012.7	6277.3	5996.0
67.5°	2749.7	9191.5	19002.4	18688.2	18110.8	7818.2	2707.8	2256.0	1681.5	1651.6
70°	909.6	6253.3	11713.8	12464.8	10816.2	5385.7	894.6	757.0	754.0	727.1
72.5°	595.4	3357.1	6594.4	7342.4	6959.5	3099.7	541.6	505.7	517.6	505.7
75°	356.1	730.1	1110.0	1442.2	1110.0	520.6	326.1	320.1	326.1	311.2
77.5°	209.4	203.5	197.5	197.5	194.5	179.5	164.6	158.6	161.6	164.6
80°	134.6	128.7	122.7	119.7	104.7	98.7	92.8	86.8	86.8	89.8
82.5°	86.8	80.8	74.8	65.8	53.9	44.9	41.9	35.9	35.9	38.9
85°	44.9	35.9	26.9	20.9	12.0	6.0	0.0	0.0	0.0	0.0
87.5°	9.0	0.0	0.0	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

(END OF REPORT)