

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: P636284

Luminaire Tested: GWS-SA3F-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636284
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-SA3F-740-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19130 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

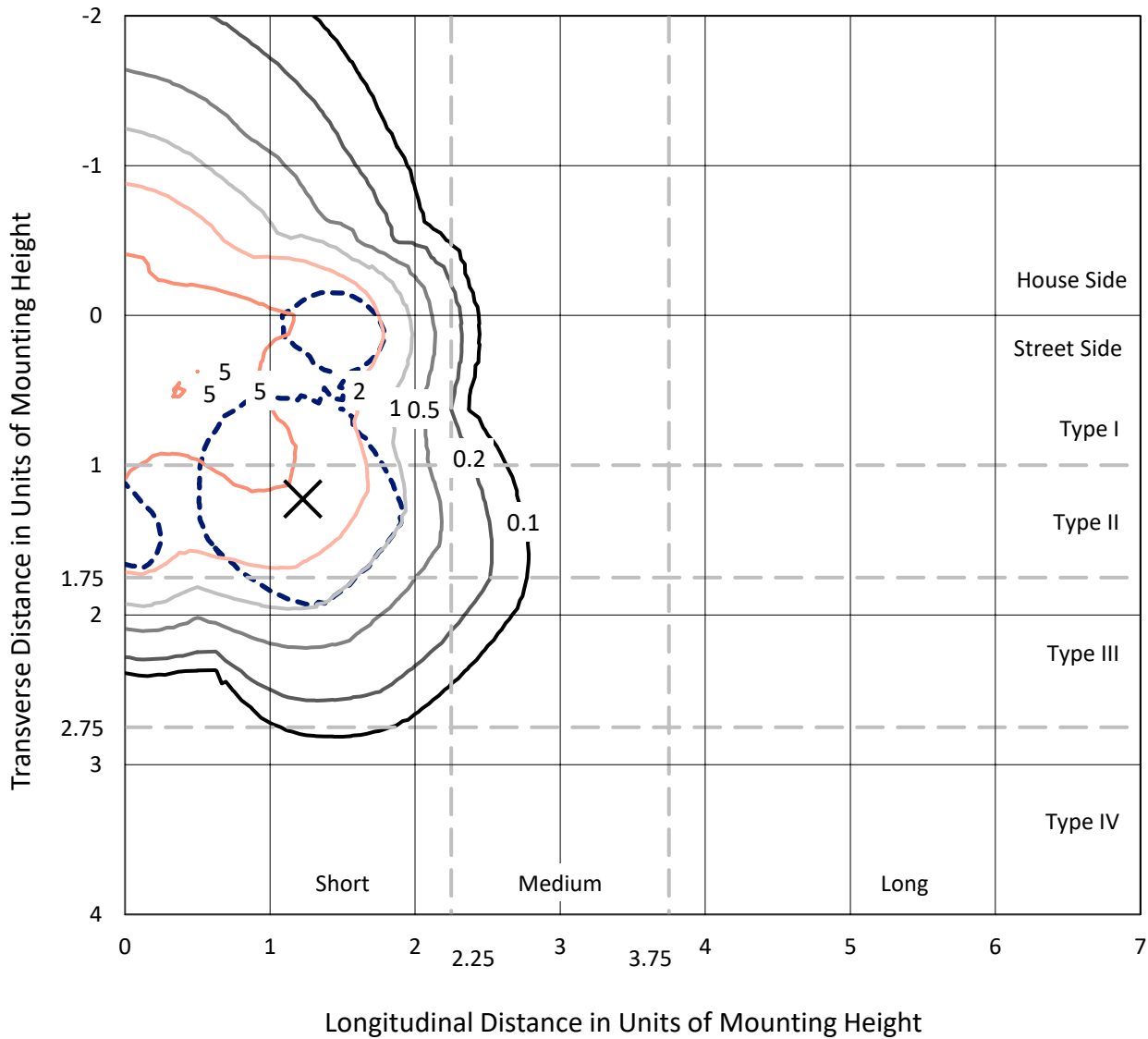
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

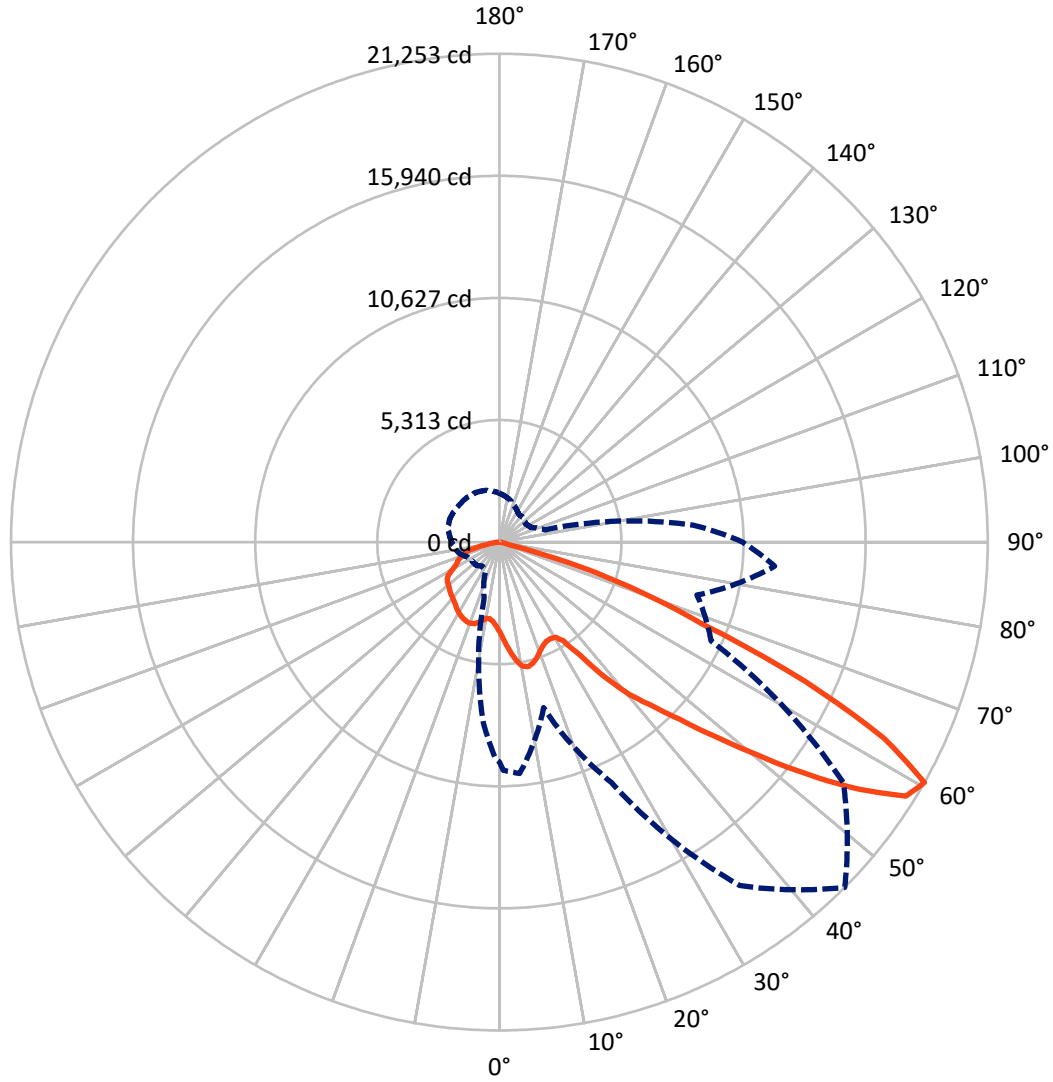
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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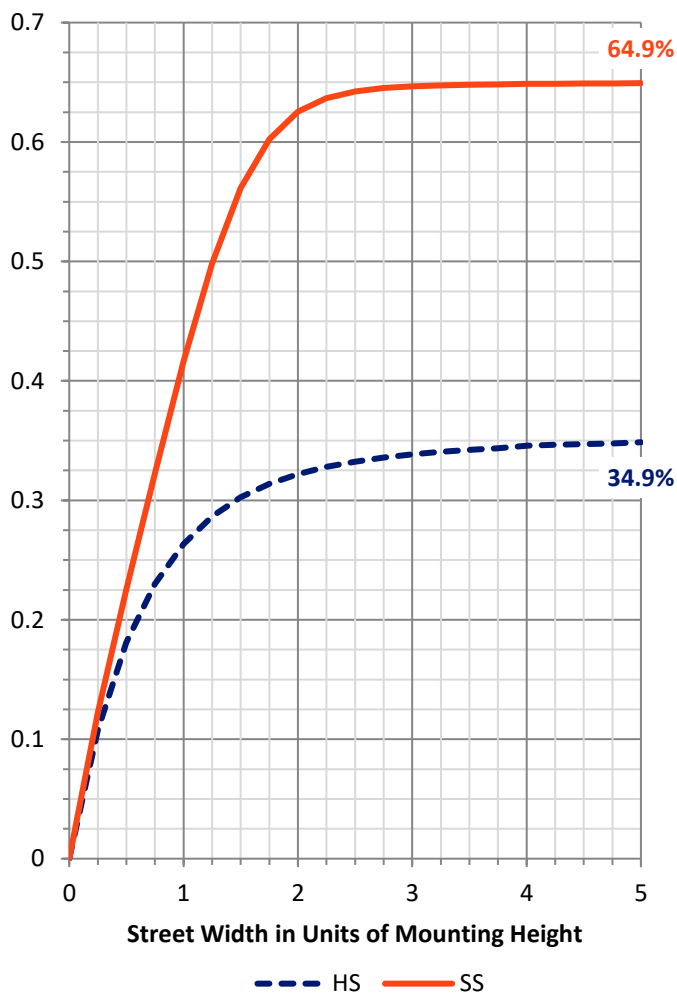
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6705.7	0.0	6705.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	12424.2	0.0	12424.2
	% Fixture	64.9	0.0	64.9
Total	Lumens	19130.0	0.0	19130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.4	2.0
10°-20°	1211.6	6.3
20°-30°	1968.1	10.3
30°-40°	2775.6	14.5
40°-50°	3835.9	20.1
50°-60°	4937.9	25.8
60°-70°	3128.7	16.4
70°-80°	802.8	4.2
80°-90°	85.9	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°	19130.0	100.0
0°-180°	19130.0	100.0

Coefficient of Utilization



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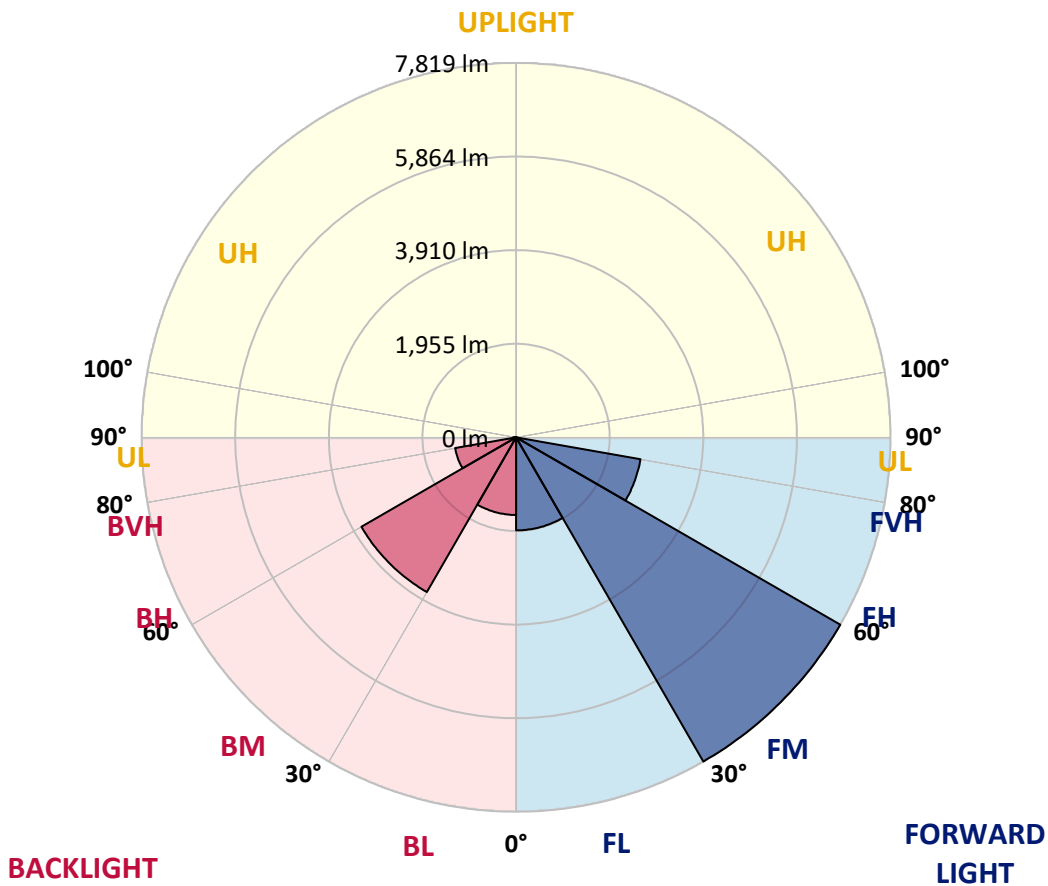
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.4	10.2			
FM (30°-60°)	7819.2	40.9			
FH (60°-80°)	2639.3	13.8			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	1620.8	8.5	B3/2500		
BM (30°-60°)	3730.2	19.5	B3/5000		
BH (60°-80°)	1292.3	6.8	B3/2500		G3/2500
BVH (80°-90°)	62.5	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°	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9
2.5°	4110.4	4138.5	4156.0	4189.3	4248.9	4282.2	4319.0	4278.7	4289.2	4283.9	4219.1
5°	4354.0	4387.4	4432.9	4531.1	4641.5	4702.9	4760.7	4751.9	4697.6	4606.5	4541.6
7.5°	4581.9	4620.5	4699.4	4858.9	5021.9	5116.5	5186.6	5141.1	5095.5	4951.8	4788.8
10°	4760.7	4783.5	4890.4	5104.3	5293.6	5400.5	5486.4	5475.9	5412.8	5251.5	5032.4
12.5°	4929.0	4944.8	5060.4	5274.3	5444.3	5491.6	5561.8	5584.5	5563.5	5442.6	5227.0
15°	5109.5	5139.3	5246.2	5409.3	5486.4	5437.3	5461.8	5524.9	5584.5	5584.5	5386.5
17.5°	5277.8	5304.1	5412.8	5482.9	5409.3	5279.5	5286.6	5367.2	5509.2	5658.2	5532.0
20°	5426.8	5451.3	5558.2	5491.6	5258.5	5069.2	5063.9	5162.1	5391.7	5705.5	5688.0
22.5°	5589.8	5624.9	5714.3	5498.7	5118.3	4878.1	4876.4	4978.1	5288.3	5752.8	5866.7
25°	5821.2	5875.5	5921.1	5560.0	5042.9	4753.7	4776.5	4872.9	5255.0	5829.9	6131.4
27.5°	6164.7	6208.6	6205.0	5688.0	5039.4	4702.9	4750.2	4862.4	5314.6	5966.7	6410.1
30°	6536.3	6559.1	6522.3	5866.7	5120.0	4734.4	4804.5	4937.7	5465.3	6192.8	6820.3
32.5°	6948.2	6976.3	6906.2	6134.9	5307.6	4967.5	5121.8	5186.6	5677.4	6518.8	7255.0
35°	7421.5	7475.9	7330.4	6489.0	5859.7	5817.7	6042.0	5957.9	6127.9	6904.4	7719.5
37.5°	7919.3	7921.1	7712.5	7013.1	6943.0	7014.9	7463.6	7200.7	7083.2	7333.9	8192.8
40°	8341.8	8331.2	8010.5	7719.5	7886.0	8171.7	8713.4	8310.2	8001.7	7910.6	8585.4
42.5°	8764.2	8725.6	8401.4	8168.2	8536.3	9123.5	9735.3	9241.0	8590.7	8434.7	8972.8
45°	9304.1	9291.8	8900.9	8347.0	9123.5	10189.2	11000.8	10199.8	8939.5	8739.7	9617.8
47.5°	10175.2	10115.6	9388.2	8333.0	9673.9	11609.0	12634.5	11407.5	9183.1	8746.7	10659.0
50°	11027.1	10953.5	9970.1	8331.2	10241.8	13081.4	14562.6	12874.6	9432.0	8788.7	11717.7
52.5°	11887.7	11887.7	10925.4	8529.3	10837.8	14725.6	16790.4	14702.8	9856.2	9339.1	13020.1
55°	12399.6	12536.3	11999.9	8864.1	11535.4	16660.7	18993.8	16676.5	10511.8	10333.0	14222.5
57.5°	11749.3	12005.2	11928.1	8631.0	11947.3	18082.3	20862.3	18173.4	10836.0	10450.4	14042.0
60°	9574.0	9929.8	10106.9	7453.1	11540.7	18247.0	21253.2	18271.6	10166.5	8899.2	12028.0
62.5°	6364.6	6657.3	6927.2	5325.1	9991.2	16415.3	18797.4	16420.6	8490.7	6641.5	8333.0
65°	3121.8	3339.2	3630.1	3148.1	7805.4	13716.0	14655.5	13269.0	6141.9	3717.8	4250.6
67.5°	816.8	878.2	918.5	1221.7	5591.6	9854.5	9558.2	9705.5	3945.6	1214.7	1111.3
70°	424.2	427.7	425.9	504.8	3779.1	6262.9	6587.2	6094.6	2753.7	508.3	438.2
72.5°	303.2	305.0	299.7	340.1	1824.7	3588.1	3717.8	3677.5	1442.6	301.5	299.7
75°	198.1	199.8	196.3	199.8	275.2	408.4	376.9	396.1	240.1	191.1	191.1
77.5°	117.4	119.2	117.4	120.9	117.4	117.4	108.7	108.7	103.4	103.4	105.2
80°	78.9	78.9	77.1	80.6	73.6	73.6	70.1	68.4	63.1	61.3	61.3
82.5°	47.3	49.1	47.3	47.3	43.8	43.8	40.3	38.6	33.3	33.3	31.6
85°	24.5	24.5	22.8	22.8	19.3	17.5	14.0	14.0	10.5	8.8	8.8
87.5°	3.5	3.5	1.8	1.8	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°	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9
2.5°	4201.6	4166.5	4113.9	4063.1	4015.8	3966.7	3910.6	3852.7	3803.7	3752.8	3726.5
5°	4455.7	4383.8	4247.1	4126.2	4017.5	3928.1	3831.7	3749.3	3672.2	3609.1	3577.5
7.5°	4685.3	4573.2	4366.3	4175.3	4028.0	3905.3	3772.1	3649.4	3546.0	3468.9	3439.1
10°	4897.4	4764.2	4492.5	4250.6	4078.9	3942.1	3779.1	3612.6	3475.9	3374.2	3349.7
12.5°	5069.2	4916.7	4592.4	4312.0	4108.7	3961.4	3817.7	3673.9	3539.0	3407.5	3386.5
15°	5221.7	5041.2	4667.8	4350.5	4098.1	3910.6	3789.6	3772.1	3772.1	3623.1	3581.0
17.5°	5353.2	5155.1	4729.2	4368.1	4031.5	3759.8	3686.2	3838.7	4010.5	3903.6	3808.9
20°	5503.9	5263.8	4780.0	4368.1	3908.8	3568.8	3561.8	3821.2	4075.3	4077.1	3977.2
22.5°	5656.4	5390.0	4839.6	4352.3	3740.6	3347.9	3477.6	3751.1	3977.2	4073.6	4005.2
25°	5903.6	5565.3	4934.2	4340.0	3544.2	3197.2	3402.3	3658.2	3849.2	3950.9	3907.1
27.5°	6217.3	5796.6	5078.0	4359.3	3349.7	3107.8	3321.6	3537.2	3710.8	3800.2	3768.6
30°	6567.9	6063.1	5232.2	4392.6	3209.4	3062.2	3225.2	3398.8	3553.0	3642.4	3628.4
32.5°	7014.9	6352.3	5365.4	4347.0	3130.6	3039.4	3123.6	3248.0	3397.0	3453.1	3465.4
35°	7549.5	6671.3	5467.1	4168.2	3058.7	3014.9	3013.1	3090.3	3195.4	3284.8	3293.6
37.5°	8042.0	7044.7	5579.3	3861.5	2929.0	2953.5	2883.4	2929.0	3032.4	3121.8	3156.9
40°	8529.3	7423.3	5735.3	3470.6	2759.0	2816.8	2734.4	2766.0	2848.4	2965.8	3021.9
42.5°	9002.6	7765.1	5900.1	3071.0	2588.9	2625.8	2564.4	2596.0	2681.8	2829.1	2892.2
45°	9517.9	8227.8	6028.0	2694.1	2441.7	2425.9	2376.8	2422.4	2552.1	2713.4	2788.8
47.5°	10492.5	8957.0	6112.1	2443.5	2362.8	2248.9	2192.8	2291.0	2438.2	2601.2	2692.4
50°	11682.7	10012.2	6087.6	2283.9	2294.5	2066.6	2047.3	2177.0	2334.8	2504.8	2604.7
52.5°	12625.7	11048.1	5808.9	2131.5	2161.2	1950.9	1894.8	2084.1	2234.9	2408.4	2511.8
55°	13346.1	11397.0	4953.5	1950.9	1943.9	1866.8	1749.3	1987.7	2135.0	2296.2	2408.4
57.5°	12758.9	10620.4	3672.2	1702.0	1659.9	1700.3	1586.3	1824.7	2012.3	2171.8	2271.7
60°	10588.9	8468.0	2045.6	1507.4	1388.2	1486.4	1468.9	1652.9	1879.0	2047.3	2133.2
62.5°	7188.4	5638.9	1213.0	1191.9	1125.3	1265.5	1358.4	1479.4	1702.0	1838.7	1919.4
65°	3582.8	2739.7	806.3	892.2	901.0	1041.2	1216.5	1349.7	1535.5	1675.7	1756.3
67.5°	1039.4	851.9	613.5	681.9	776.5	888.7	1028.9	1186.7	1367.2	1533.7	1628.4
70°	448.7	454.0	487.3	567.9	660.8	776.5	916.7	1071.0	1223.5	1351.4	1423.3
72.5°	317.3	329.5	366.3	448.7	536.4	646.8	787.0	936.0	1046.4	1176.2	1251.5
75°	203.3	212.1	241.9	305.0	369.8	476.8	610.0	746.7	860.6	953.5	1025.4
77.5°	112.2	113.9	138.5	175.3	219.1	287.5	385.6	492.5	576.7	629.3	694.1
80°	64.9	64.9	77.1	99.9	126.2	168.3	222.6	275.2	326.0	359.3	390.9
82.5°	35.1	35.1	40.3	54.3	68.4	92.9	124.5	150.7	182.3	199.8	220.9
85°	10.5	10.5	14.0	19.3	24.5	35.1	49.1	63.1	77.1	89.4	101.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9
2.5°	3721.3	3696.7	3682.7	3665.2	3670.4	3654.7	3645.9	3651.2	3619.6	3651.2	3682.7
5°	3565.3	3530.2	3502.2	3479.4	3468.9	3447.8	3435.6	3435.6	3416.3	3447.8	3486.4
7.5°	3428.6	3400.5	3386.5	3372.5	3356.7	3337.4	3316.4	3309.4	3297.1	3330.4	3363.7
10°	3337.4	3340.9	3349.7	3369.0	3365.4	3353.2	3321.6	3304.1	3304.1	3342.7	3393.5
12.5°	3379.5	3416.3	3437.3	3472.4	3479.4	3468.9	3437.3	3423.3	3458.3	3516.2	3600.3
15°	3542.5	3567.0	3584.6	3612.6	3610.8	3602.1	3577.5	3588.1	3703.7	3815.9	3891.3
17.5°	3719.5	3691.5	3688.0	3705.5	3710.8	3700.2	3686.2	3733.5	3924.6	4029.8	4068.3
20°	3847.5	3751.1	3730.0	3737.1	3751.1	3745.8	3745.8	3822.9	4021.0	4070.1	4021.0
22.5°	3886.0	3749.3	3717.8	3719.5	3738.8	3740.6	3749.3	3830.0	3945.6	3947.4	3872.0
25°	3824.7	3693.2	3670.4	3673.9	3696.7	3695.0	3698.5	3744.1	3794.9	3773.9	3717.8
27.5°	3709.0	3595.1	3588.1	3607.3	3637.1	3621.4	3610.8	3623.1	3647.7	3621.4	3572.3
30°	3577.5	3481.1	3484.6	3521.5	3553.0	3526.7	3500.4	3507.4	3509.2	3481.1	3425.0
32.5°	3439.1	3367.2	3379.5	3418.0	3454.8	3426.8	3398.8	3395.2	3361.9	3328.6	3274.3
35°	3300.6	3272.5	3288.3	3319.9	3351.4	3328.6	3311.1	3300.6	3228.7	3179.6	3134.1
37.5°	3174.4	3195.4	3223.5	3242.8	3253.3	3251.5	3241.0	3216.5	3121.8	3064.0	3004.4
40°	3062.2	3127.1	3156.9	3165.6	3181.4	3177.9	3176.1	3141.1	3016.6	2955.3	2886.9
42.5°	2960.5	3051.7	3102.5	3111.3	3120.1	3121.8	3116.5	3065.7	2923.7	2851.9	2787.0
45°	2862.4	2981.6	3046.4	3037.7	3049.9	3049.9	3055.2	2988.6	2832.6	2759.0	2690.6
47.5°	2776.5	2916.7	2976.3	2965.8	2972.8	2978.1	2983.3	2906.2	2732.7	2662.6	2592.4
50°	2697.6	2846.6	2897.4	2900.9	2900.9	2913.2	2911.5	2836.1	2648.5	2573.2	2503.1
52.5°	2613.5	2774.7	2829.1	2851.9	2858.9	2864.1	2839.6	2752.0	2562.6	2471.5	2406.6
55°	2515.3	2701.1	2750.2	2780.0	2794.0	2790.5	2757.2	2667.8	2475.0	2383.9	2310.2
57.5°	2366.3	2543.4	2613.5	2627.5	2650.3	2636.3	2597.7	2522.3	2334.8	2243.6	2168.3
60°	2203.3	2331.3	2387.4	2399.6	2382.1	2387.4	2382.1	2310.2	2147.2	2075.4	1998.2
62.5°	1989.5	2103.4	2163.0	2178.8	2149.0	2168.3	2161.2	2071.9	1908.8	1833.5	1765.1
65°	1828.2	1952.7	2022.8	2031.5	2022.8	2031.5	2007.0	1898.3	1744.1	1666.9	1596.8
67.5°	1702.0	1830.0	1903.6	1928.1	1919.4	1917.6	1879.0	1752.8	1593.3	1509.2	1419.8
70°	1484.7	1596.8	1691.5	1751.1	1751.1	1717.8	1644.2	1526.7	1398.8	1326.9	1256.8
72.5°	1314.6	1456.6	1549.5	1610.9	1623.1	1603.8	1500.4	1376.0	1228.7	1156.9	1083.3
75°	1083.3	1221.7	1321.6	1402.3	1418.0	1397.0	1277.8	1155.1	1018.4	948.3	874.7
77.5°	723.9	806.3	886.9	960.6	944.8	958.8	878.2	785.3	701.1	648.6	615.2
80°	408.4	462.7	487.3	527.6	527.6	527.6	475.0	431.2	383.9	354.1	320.8
82.5°	231.4	266.4	276.9	310.3	319.0	320.8	285.7	257.7	227.9	212.1	189.3
85°	106.9	126.2	128.0	147.2	154.2	168.3	152.5	133.2	115.7	108.7	94.7
87.5°	3.5	10.5	14.0	26.3	35.1	40.3	43.8	43.8	36.8	33.3	28.0
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: P636284

CATALOG NUMBER: GWS-SA3F-740-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9
2.5°	3721.3	3763.3	3812.4	3847.5	3910.6	3963.2	4017.5	4077.1	4120.9	4110.4
5°	3533.7	3603.8	3693.2	3775.6	3893.1	4012.2	4143.7	4278.7	4357.6	4354.0
7.5°	3428.6	3528.5	3637.1	3747.6	3886.0	4057.8	4259.4	4469.7	4576.7	4581.9
10°	3484.6	3591.6	3665.2	3758.1	3903.6	4119.2	4361.1	4613.5	4736.2	4760.7
12.5°	3661.7	3652.9	3647.7	3714.3	3889.5	4163.0	4459.2	4760.7	4899.2	4929.0
15°	3830.0	3649.4	3540.7	3586.3	3826.4	4191.0	4555.6	4922.0	5078.0	5109.5
17.5°	3861.5	3588.1	3386.5	3418.0	3726.5	4199.8	4648.5	5079.7	5248.0	5277.8
20°	3773.9	3509.2	3274.3	3230.5	3600.3	4177.0	4706.4	5211.2	5395.2	5426.8
22.5°	3663.4	3439.1	3190.2	3076.2	3446.1	4154.2	4771.2	5349.7	5561.8	5589.8
25°	3547.7	3349.7	3111.3	2937.8	3270.8	4140.2	4879.9	5532.0	5787.9	5821.2
27.5°	3425.0	3241.0	3042.9	2871.1	3109.5	4157.7	5034.2	5826.4	6117.4	6164.7
30°	3293.6	3132.3	2999.1	2848.4	2999.1	4173.5	5204.2	6127.9	6469.7	6536.3
32.5°	3156.9	3032.4	2953.5	2858.9	2930.7	4136.7	5353.2	6466.2	6890.4	6948.2
35°	3020.1	2930.7	2895.7	2878.2	2839.6	4001.7	5474.1	6808.0	7370.7	7421.5
37.5°	2892.2	2825.6	2815.1	2834.3	2699.4	3780.9	5614.3	7242.7	7842.2	7919.3
40°	2773.0	2711.6	2709.9	2706.4	2545.1	3479.4	5803.6	7684.4	8306.7	8341.8
42.5°	2662.6	2585.4	2599.5	2557.4	2418.9	3153.4	5982.4	8061.3	8739.7	8764.2
45°	2564.4	2462.7	2478.5	2425.9	2359.3	2811.6	6140.2	8506.5	9288.3	9304.1
47.5°	2469.7	2361.1	2317.3	2313.7	2348.8	2496.0	6294.4	9363.7	10147.2	10175.2
50°	2382.1	2264.7	2140.2	2217.3	2283.9	2259.4	6487.3	10282.1	11034.1	11027.1
52.5°	2298.0	2143.7	1966.7	2115.7	2115.7	2084.1	6432.9	10839.5	11766.8	11887.7
55°	2201.6	1949.2	1786.1	1945.7	1868.5	1926.4	5470.6	11021.8	12227.8	12399.6
57.5°	2010.5	1709.0	1567.0	1652.9	1537.2	1786.1	3929.9	10117.4	11444.3	11749.3
60°	1826.5	1532.0	1439.1	1423.3	1272.6	1456.6	2546.9	7921.1	9419.8	9574.0
62.5°	1610.9	1379.5	1300.6	1179.7	1023.7	1060.5	1542.5	5212.9	6329.5	6364.6
65°	1447.8	1249.8	1099.0	955.3	837.9	769.5	911.5	2513.6	3163.9	3121.8
67.5°	1242.8	1071.0	927.3	823.8	727.4	641.5	606.5	746.7	844.9	816.8
70°	1106.0	941.3	802.8	704.6	615.2	529.4	468.0	440.0	431.2	424.2
72.5°	953.5	809.8	666.1	571.4	487.3	408.4	352.3	319.0	310.3	303.2
75°	760.7	625.8	494.3	404.9	331.3	275.2	238.4	210.3	205.1	198.1
77.5°	503.1	401.4	294.5	240.1	196.3	166.5	142.0	124.5	120.9	117.4
80°	276.9	231.4	180.5	145.5	117.4	101.7	92.9	82.4	80.6	78.9
82.5°	164.8	138.5	103.4	82.4	68.4	61.3	56.1	50.8	49.1	47.3
85°	82.4	64.9	45.6	38.6	35.1	31.6	31.6	26.3	24.5	24.5
87.5°	21.0	17.5	10.5	8.8	8.8	8.8	7.0	5.3	5.3	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)