

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: P639855

Luminaire Tested: GWS-SA5C-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639855
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-SA5C-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18700 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

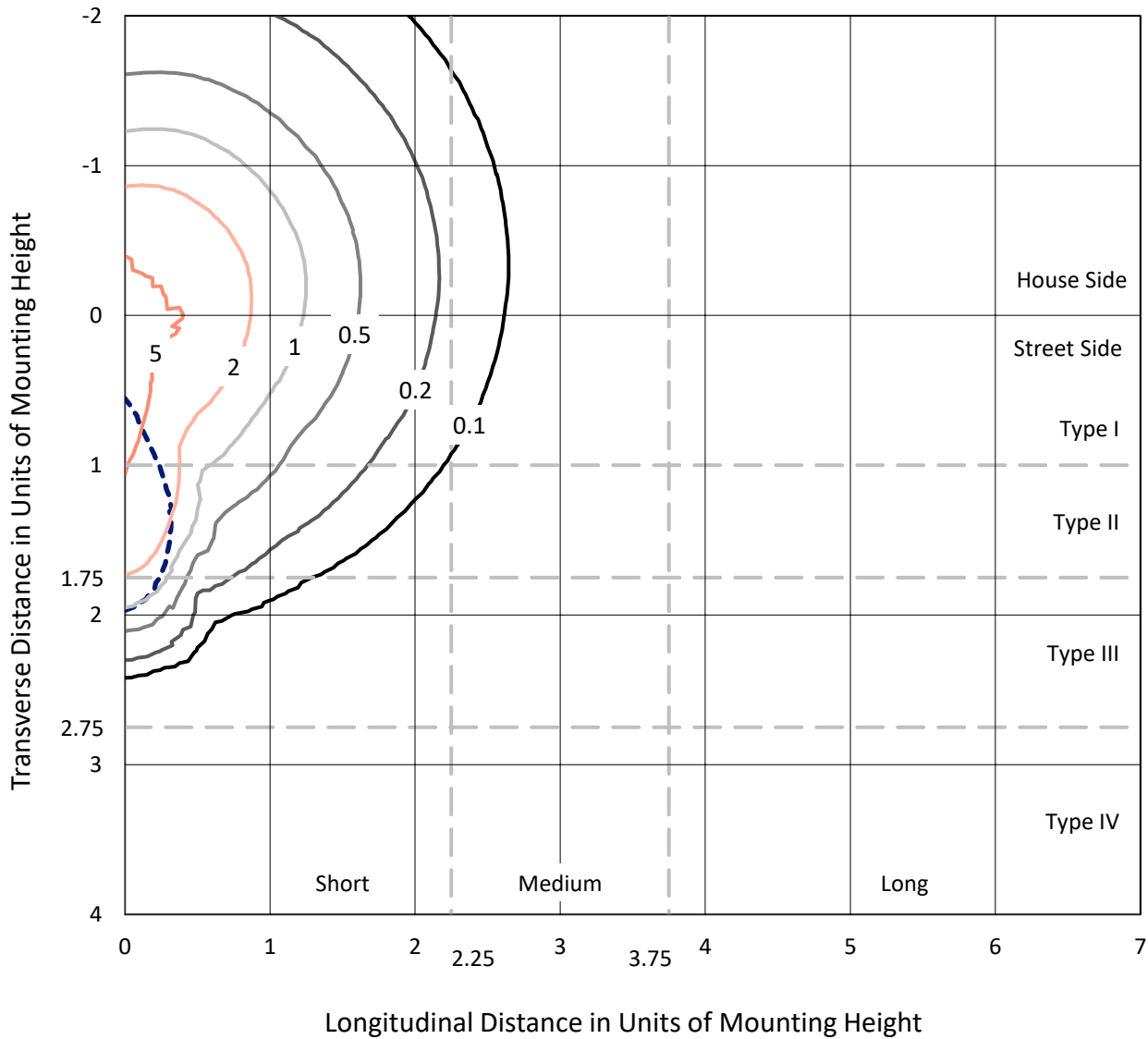
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

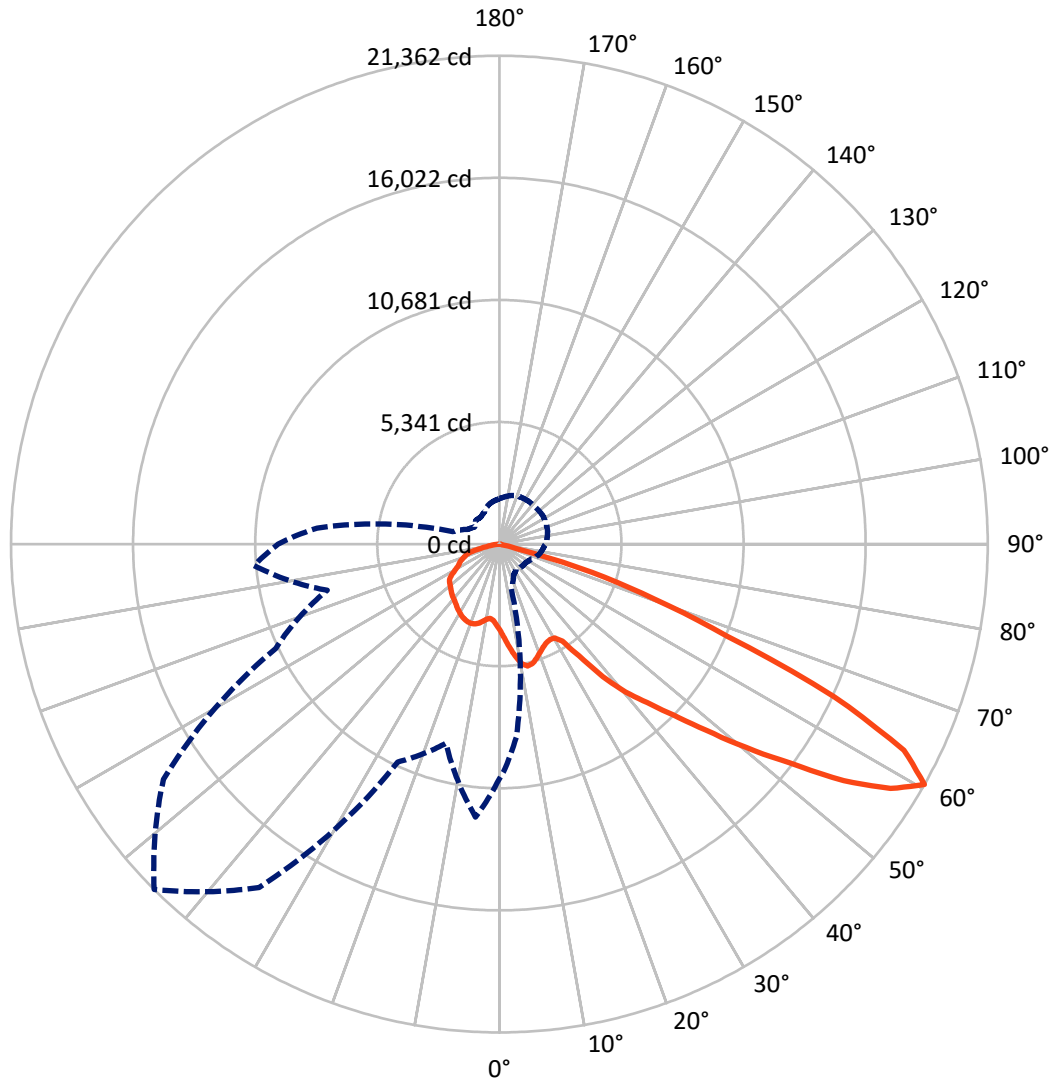
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	6397.1	0.0	6397.1
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	12302.9	0.0	12302.9
	% Fixture	65.8	0.0	65.8
Total	Lumens	18700.0	0.0	18700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.5	2.0
10°-20°	1181.9	6.3
20°-30°	1924.8	10.3
30°-40°	2704.0	14.5
40°-50°	3700.1	19.8
50°-60°	4747.1	25.4
60°-70°	3196.5	17.1
70°-80°	799.1	4.3
80°-90°	77.9	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°	18700.0	100.0
0°-180°	18700.0	100.0

Coefficient of Utilization



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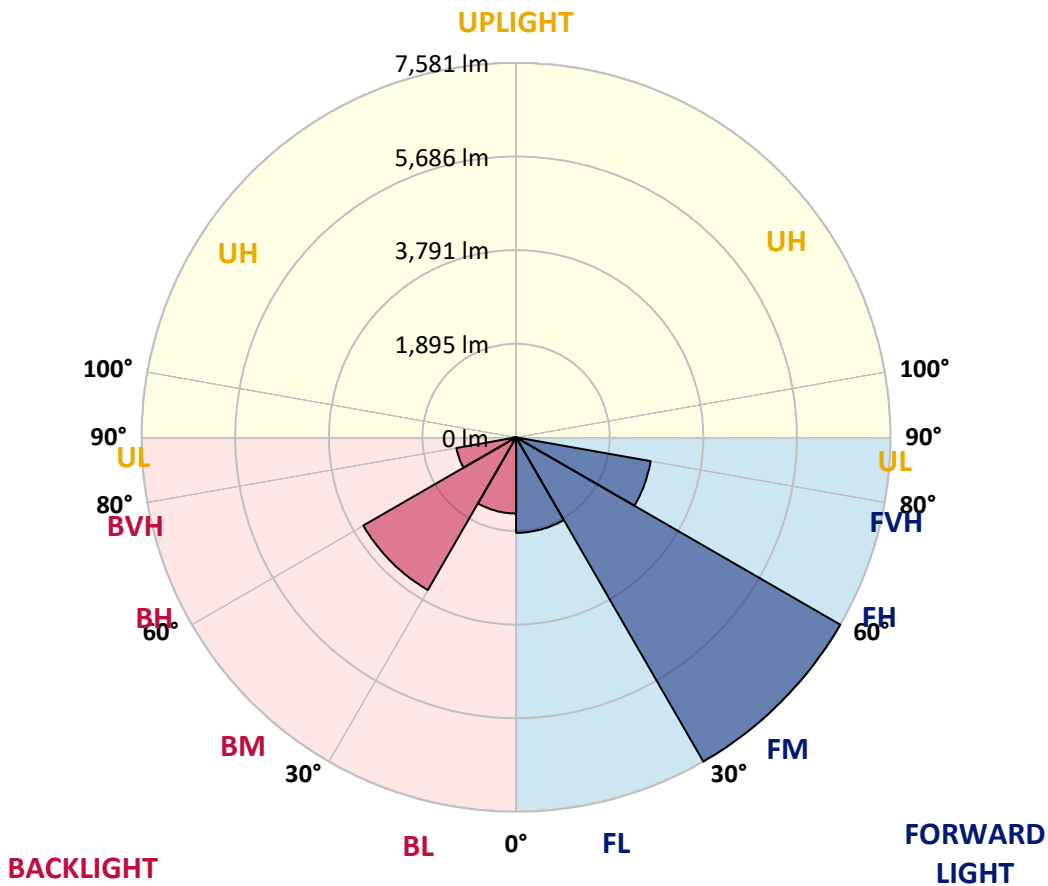
CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.1	10.3			
FM (30°-60°)	7581.1	40.5			
FH (60°-80°)	2768.4	14.8			G2/5000
FVH (80°-90°)	20.2	0.1			G1/100
BL (0°-30°)	1542.1	8.2	B3/2500		
BM (30°-60°)	3570.1	19.1	B3/5000		
BH (60°-80°)	1227.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	57.7	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°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3990.3	3981.7	3973.1	3905.9	3888.7	3840.5	3806.0	3763.0	3701.0	3666.5	3637.3
5°	4240.0	4226.2	4179.7	4042.0	3952.4	3854.3	3773.3	3683.8	3589.0	3527.0	3478.8
7.5°	4476.0	4472.5	4393.3	4166.0	4021.3	3880.1	3769.9	3639.0	3502.9	3409.9	3347.9
10°	4694.7	4668.9	4574.1	4277.9	4088.5	3926.6	3807.8	3663.1	3504.7	3378.9	3296.3
12.5°	4887.6	4854.8	4724.0	4381.2	4147.0	3947.3	3818.1	3699.3	3594.2	3489.2	3394.4
15°	5046.0	5006.4	4873.8	4477.7	4198.7	3935.2	3754.4	3661.4	3697.5	3744.0	3639.0
17.5°	5194.1	5152.8	4990.9	4548.3	4214.2	3861.1	3597.7	3558.0	3740.6	3952.4	3904.2
20°	5318.1	5271.6	5083.9	4582.7	4186.6	3719.9	3394.4	3463.3	3704.4	3957.6	4035.1
22.5°	5452.4	5414.6	5189.0	4632.7	4152.2	3525.3	3223.9	3392.7	3642.4	3864.6	3981.7
25°	5667.7	5621.2	5352.6	4720.5	4135.0	3342.8	3101.7	3323.8	3556.3	3757.8	3849.1
27.5°	5979.4	5893.3	5576.4	4873.8	4153.9	3170.5	3024.2	3239.4	3456.4	3628.6	3702.7
30°	6318.7	6215.4	5824.4	5032.2	4181.5	3065.5	2982.8	3143.0	3303.2	3475.4	3556.3
32.5°	6720.0	6628.7	6089.7	5151.1	4122.9	3017.3	2951.8	3037.9	3165.4	3303.2	3370.3
35°	7198.7	7035.1	6379.0	5247.5	3933.5	2946.7	2924.3	2922.6	2989.7	3124.0	3199.8
37.5°	7713.7	7538.0	6735.5	5350.8	3639.0	2834.7	2858.8	2786.5	2848.5	2955.3	3041.4
40°	8135.6	7951.3	7095.4	5492.1	3270.4	2659.1	2714.2	2636.7	2674.6	2784.8	2881.2
42.5°	8548.9	8352.6	7431.2	5652.2	2913.9	2486.8	2514.4	2485.1	2497.2	2612.6	2746.9
45°	9091.4	8871.0	7844.6	5765.9	2593.6	2350.8	2325.0	2275.0	2338.7	2488.6	2631.5
47.5°	9997.3	9733.8	8521.4	5839.9	2361.1	2273.3	2154.5	2125.2	2204.4	2371.5	2519.6
50°	11056.4	10829.1	9602.9	5836.5	2187.2	2207.8	1989.1	1963.3	2094.2	2263.0	2419.7
52.5°	11924.4	11693.7	10527.7	5664.3	2044.2	2068.3	1892.7	1820.4	1999.5	2156.2	2312.9
55°	12625.4	12365.3	10953.1	4944.4	1863.4	1846.2	1787.6	1655.0	1880.6	2049.4	2195.8
57.5°	12248.2	11938.2	10438.2	3759.5	1677.4	1568.9	1606.8	1508.6	1718.7	1930.6	2071.8
60°	10269.4	9990.4	8480.1	2001.2	1475.9	1310.6	1389.8	1405.3	1541.4	1787.6	1932.3
62.5°	7054.1	6850.9	5746.9	1214.1	1164.2	1052.3	1176.3	1288.2	1389.8	1598.2	1723.9
65°	3451.3	3391.0	2874.3	778.4	814.6	850.8	974.8	1110.8	1260.6	1443.2	1575.8
67.5°	950.6	957.5	871.4	607.9	642.4	742.3	840.4	948.9	1098.8	1267.5	1401.9
70°	418.5	425.4	439.2	468.4	533.9	625.2	726.8	838.7	976.5	1117.7	1246.9
72.5°	291.0	297.9	318.6	356.5	415.0	501.2	597.6	704.4	847.3	966.1	1072.9
75°	179.1	184.3	203.2	235.9	275.6	341.0	435.7	533.9	659.6	768.1	862.8
77.5°	94.7	91.3	103.3	125.7	160.2	194.6	258.3	320.3	409.9	497.7	576.9
80°	51.7	49.9	56.8	68.9	79.2	106.8	149.8	191.2	242.8	292.8	335.8
82.5°	22.4	20.7	22.4	29.3	36.2	51.7	75.8	105.1	134.3	168.8	196.3
85°	0.0	0.0	0.0	1.7	8.6	13.8	25.8	37.9	55.1	75.8	93.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	15.5
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°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3620.0	3577.0	3573.5	3539.1	3542.5	3544.3	3509.8	3496.0	3508.1	3521.9	3515.0
5°	3461.6	3416.8	3397.9	3365.2	3361.7	3346.2	3332.4	3315.2	3327.3	3339.3	3346.2
7.5°	3323.8	3294.5	3282.5	3273.9	3277.3	3270.4	3242.9	3227.4	3225.7	3230.8	3237.7
10°	3279.0	3254.9	3270.4	3294.5	3311.8	3323.8	3294.5	3268.7	3244.6	3234.3	3234.3
12.5°	3375.5	3344.5	3375.5	3401.3	3435.8	3444.4	3411.7	3384.1	3375.5	3385.8	3406.5
15°	3589.0	3516.7	3515.0	3530.5	3558.0	3571.8	3540.8	3527.0	3527.0	3592.5	3644.1
17.5°	3802.6	3683.8	3633.8	3625.2	3642.4	3647.6	3621.8	3609.7	3640.7	3768.1	3864.6
20°	3952.4	3807.8	3699.3	3678.6	3683.8	3685.5	3664.8	3656.2	3701.0	3856.0	3936.9
22.5°	3936.9	3830.1	3697.5	3671.7	3680.3	3676.9	3657.9	3654.5	3690.6	3825.0	3862.9
25°	3830.1	3747.5	3635.5	3618.3	3632.1	3630.4	3611.4	3602.8	3618.3	3707.9	3711.3
27.5°	3707.9	3635.5	3539.1	3533.9	3556.3	3568.4	3535.7	3509.8	3504.7	3564.9	3551.2
30°	3561.5	3508.1	3430.6	3434.0	3475.4	3482.3	3442.7	3404.8	3394.4	3427.2	3408.2
32.5°	3387.5	3370.3	3329.0	3337.6	3377.2	3391.0	3349.7	3310.0	3298.0	3308.3	3268.7
35°	3239.4	3232.5	3236.0	3251.5	3285.9	3296.3	3261.8	3230.8	3213.6	3177.4	3125.8
37.5°	3086.2	3105.1	3155.0	3184.3	3203.3	3199.8	3180.9	3158.5	3130.9	3063.8	3000.1
40°	2943.2	2991.4	3081.0	3113.7	3120.6	3122.3	3108.5	3089.6	3055.2	2965.6	2893.3
42.5°	2833.0	2886.4	3005.2	3055.2	3058.6	3062.0	3048.3	3032.8	2984.6	2865.7	2795.1
45°	2717.6	2788.2	2927.7	2988.0	2984.6	2982.8	2970.8	2963.9	2907.1	2769.3	2691.8
47.5°	2619.4	2702.1	2851.9	2903.6	2901.9	2900.2	2891.6	2891.6	2834.7	2684.9	2597.1
50°	2523.0	2617.7	2774.4	2817.5	2820.9	2817.5	2814.1	2819.2	2752.1	2591.9	2505.8
52.5°	2418.0	2524.7	2688.3	2727.9	2748.6	2757.2	2757.2	2745.2	2665.9	2498.9	2404.2
55°	2302.6	2404.2	2593.6	2647.0	2664.2	2679.7	2679.7	2655.6	2581.6	2412.8	2311.2
57.5°	2159.6	2249.2	2399.0	2452.4	2493.7	2504.1	2504.1	2464.5	2404.2	2242.3	2159.6
60°	2004.6	2082.1	2183.7	2240.6	2271.6	2250.9	2266.4	2256.1	2207.8	2058.0	1989.1
62.5°	1798.0	1877.2	1989.1	2047.7	2061.5	2040.8	2061.5	2059.7	1994.3	1860.0	1777.3
65°	1649.9	1727.4	1837.6	1913.4	1935.7	1930.6	1944.4	1923.7	1842.7	1715.3	1636.1
67.5°	1474.2	1556.9	1684.3	1768.7	1815.2	1820.4	1839.3	1796.2	1713.6	1574.1	1474.2
70°	1307.1	1377.8	1475.9	1555.1	1620.6	1653.3	1656.7	1594.7	1491.4	1376.0	1303.7
72.5°	1131.5	1203.8	1322.6	1408.7	1491.4	1529.3	1529.3	1453.5	1341.6	1214.1	1136.6
75°	917.9	985.1	1093.6	1186.6	1281.3	1329.5	1327.8	1262.4	1138.4	1017.8	936.9
77.5°	621.7	671.7	740.5	811.2	824.9	862.8	881.8	799.1	730.2	664.8	592.4
80°	361.7	392.7	430.5	470.2	478.8	490.8	459.8	428.8	392.7	349.6	316.9
82.5°	211.8	232.5	251.4	282.4	287.6	291.0	263.5	249.7	220.4	194.6	173.9
85°	103.3	110.2	127.4	142.9	136.1	132.6	120.6	106.8	94.7	84.4	74.1
87.5°	20.7	20.7	31.0	29.3	24.1	20.7	12.1	15.5	3.4	3.4	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°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	3537.4	3566.7	3602.8	3651.0	3706.1	3764.7	3821.5	3864.6	3907.6	3971.4	3961.0
5°	3356.5	3406.5	3463.3	3537.4	3626.9	3728.5	3842.2	3955.9	4078.1	4181.5	4226.2
7.5°	3251.5	3306.6	3373.8	3470.2	3585.6	3709.6	3869.8	4054.0	4252.1	4388.1	4472.5
10°	3251.5	3322.1	3409.9	3502.9	3604.5	3732.0	3930.0	4160.8	4415.7	4594.8	4693.0
12.5°	3439.2	3509.8	3528.8	3525.3	3582.2	3723.4	3978.3	4272.7	4577.6	4767.0	4887.6
15°	3732.0	3756.1	3613.1	3482.3	3490.9	3661.4	4000.6	4362.3	4717.1	4944.4	5075.3
17.5°	3928.3	3864.6	3609.7	3380.7	3332.4	3556.3	4000.6	4448.4	4865.2	5121.8	5244.1
20°	3943.8	3785.4	3521.9	3282.5	3158.5	3416.8	3973.1	4513.9	5008.1	5292.3	5423.2
22.5°	3807.8	3651.0	3428.9	3198.1	3015.6	3248.0	3928.3	4563.8	5130.4	5452.4	5614.3
25°	3652.8	3521.9	3334.2	3112.0	2917.4	3077.5	3887.0	4648.2	5300.9	5669.4	5833.1
27.5°	3501.2	3391.0	3220.5	3039.7	2862.3	2929.4	3861.1	4772.2	5504.1	5977.7	6118.9
30°	3353.1	3253.2	3098.2	2970.8	2833.0	2833.0	3838.8	4915.1	5772.8	6323.9	6465.1
32.5°	3203.3	3108.5	2982.8	2903.6	2815.8	2795.1	3776.8	5049.5	6050.0	6702.8	6847.4
35°	3063.8	2969.1	2872.6	2839.9	2807.2	2765.8	3623.5	5154.5	6320.4	7145.4	7269.4
37.5°	2932.9	2841.6	2769.3	2760.7	2764.1	2686.6	3382.4	5242.3	6658.0	7598.3	7663.7
40°	2819.2	2717.6	2660.8	2659.1	2676.3	2559.2	3077.5	5368.1	7043.7	7982.3	7954.8
42.5°	2717.6	2610.8	2541.9	2557.4	2547.1	2431.7	2779.6	5483.4	7379.6	8342.3	8287.2
45°	2617.7	2514.4	2418.0	2440.3	2428.3	2352.5	2526.4	5567.8	7751.6	8774.5	8781.4
47.5°	2521.3	2419.7	2323.2	2295.7	2294.0	2328.4	2331.8	5595.4	8357.8	9470.3	9313.6
50°	2431.7	2330.1	2230.2	2137.2	2173.4	2280.2	2187.2	5574.7	9265.4	10238.4	9801.0
52.5°	2338.7	2242.3	2132.1	1965.0	2059.7	2164.8	2058.0	5500.7	9819.9	10916.9	10655.2
55°	2232.0	2140.7	1990.8	1787.6	1903.0	1925.4	1925.4	4784.2	10055.9	11588.6	11750.5
57.5°	2089.0	1968.5	1730.8	1567.2	1670.5	1584.4	1784.2	3347.9	9666.6	11376.8	12005.4
60°	1927.1	1798.0	1546.5	1429.4	1460.4	1308.9	1520.7	2099.3	8011.6	9680.4	10768.8
62.5°	1713.6	1594.7	1386.4	1295.1	1231.4	1067.8	1224.5	1327.8	5492.1	7188.4	7930.7
65°	1570.6	1439.7	1253.8	1133.2	1002.3	859.4	812.9	871.4	2953.6	4023.0	4524.2
67.5°	1401.9	1272.7	1097.0	945.5	840.4	737.1	656.2	635.5	1012.6	1339.9	1450.1
70°	1241.7	1117.7	971.3	830.1	725.0	623.4	544.2	487.4	468.4	465.0	458.1
72.5°	1078.1	962.7	840.4	709.5	594.2	501.2	430.5	365.1	337.5	328.9	320.3
75°	883.5	792.2	669.9	528.7	435.7	349.6	294.5	251.4	227.3	218.7	208.4
77.5°	568.3	527.0	420.2	341.0	263.5	208.4	179.1	151.6	136.1	132.6	124.0
80°	303.1	282.4	232.5	196.3	156.7	127.4	111.9	96.4	87.8	84.4	80.9
82.5°	168.8	153.3	129.2	113.7	91.3	77.5	68.9	62.0	56.8	55.1	53.4
85°	75.8	65.4	51.7	48.2	43.1	39.6	37.9	34.4	32.7	31.0	29.3
87.5°	3.4	6.9	8.6	6.9	6.9	10.3	12.1	12.1	10.3	10.3	8.6
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: P639855

CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6	3771.6
2.5°	4024.8	4076.4	4081.6	4098.8	4076.4	4071.3	4035.1	4014.4	3995.5	3990.3
5°	4338.2	4441.5	4482.9	4512.1	4484.6	4470.8	4391.6	4308.9	4262.4	4240.0
7.5°	4660.2	4815.2	4896.2	4932.3	4935.8	4873.8	4737.7	4582.7	4505.2	4476.0
10°	4947.8	5139.0	5245.8	5314.7	5290.6	5214.8	5028.8	4818.7	4720.5	4694.7
12.5°	5161.4	5343.9	5426.6	5471.4	5469.7	5428.3	5252.7	5025.3	4913.4	4887.6
15°	5299.2	5407.7	5412.8	5423.2	5452.4	5507.6	5416.3	5206.2	5082.2	5046.0
17.5°	5407.7	5364.6	5283.7	5256.1	5321.6	5474.8	5529.9	5359.4	5225.1	5194.1
20°	5476.6	5259.6	5116.6	5063.2	5139.0	5388.7	5598.8	5497.2	5357.7	5318.1
22.5°	5529.9	5161.4	4930.6	4894.5	4973.7	5295.7	5669.4	5660.8	5507.6	5452.4
25°	5614.3	5096.0	4799.7	4773.9	4848.0	5251.0	5764.2	5883.0	5746.9	5667.7
27.5°	5746.9	5089.1	4732.6	4724.0	4825.6	5290.6	5900.2	6208.5	6038.0	5979.4
30°	5931.2	5154.5	4748.1	4765.3	4889.3	5433.5	6112.0	6580.5	6410.0	6318.7
32.5°	6196.4	5330.2	4984.0	5058.1	5149.3	5662.6	6422.0	6983.5	6854.3	6720.0
35°	6546.0	5812.4	5681.5	5996.7	5910.5	6163.7	6795.8	7472.6	7315.9	7198.7
37.5°	7012.7	6800.9	6921.5	7355.5	7147.1	7110.9	7252.1	7916.9	7830.8	7713.7
40°	7667.2	7710.2	7932.4	8502.4	8201.1	7968.6	7811.8	8251.0	8280.3	8135.6
42.5°	8101.2	8299.2	8834.8	9482.4	9067.3	8511.1	8280.3	8678.1	8679.8	8548.9
45°	8263.1	8781.4	9900.9	10646.6	9952.5	8821.0	8538.6	9258.5	9241.3	9091.4
47.5°	8204.5	9187.9	11008.2	12148.3	11089.2	9041.5	8502.4	10085.1	10224.6	9997.3
50°	8082.2	9596.0	12301.6	13987.6	12484.1	9275.7	8447.3	11001.3	11232.1	11056.4
52.5°	8206.2	10050.7	13830.9	15888.9	14233.9	9649.4	8819.3	12177.6	12136.3	11924.4
55°	8598.9	10588.0	15689.1	18277.6	16155.8	10281.5	9775.1	13298.7	12878.5	12625.4
57.5°	8579.9	10972.1	17318.3	20166.8	17828.1	10799.8	10107.5	13417.6	12568.5	12248.2
60°	7787.7	10796.4	17938.3	21362.0	18332.7	10514.0	9013.9	11984.7	10605.2	10269.4
62.5°	5812.4	9580.5	16736.2	19865.4	16905.0	9081.1	6778.5	8602.3	7620.7	7054.1
65°	3718.2	7495.0	14070.3	16093.8	13934.2	6945.6	4036.8	4612.0	3613.1	3451.3
67.5°	1582.7	5290.6	10937.6	10756.8	10424.4	4500.1	1558.6	1298.5	967.9	950.6
70°	523.5	3599.4	6742.4	7174.6	6225.7	3099.9	514.9	435.7	434.0	418.5
72.5°	342.7	1932.3	3795.7	4226.2	4005.8	1784.2	311.7	291.0	297.9	291.0
75°	204.9	420.2	638.9	830.1	638.9	299.7	187.7	184.3	187.7	179.1
77.5°	120.6	117.1	113.7	113.7	111.9	103.3	94.7	91.3	93.0	94.7
80°	77.5	74.1	70.6	68.9	60.3	56.8	53.4	49.9	49.9	51.7
82.5°	49.9	46.5	43.1	37.9	31.0	25.8	24.1	20.7	20.7	22.4
85°	25.8	20.7	15.5	12.1	6.9	3.4	0.0	0.0	0.0	0.0
87.5°	5.2	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)