

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: P637879

Luminaire Tested: GWS-SA4D-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637879  
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-SA4D-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**

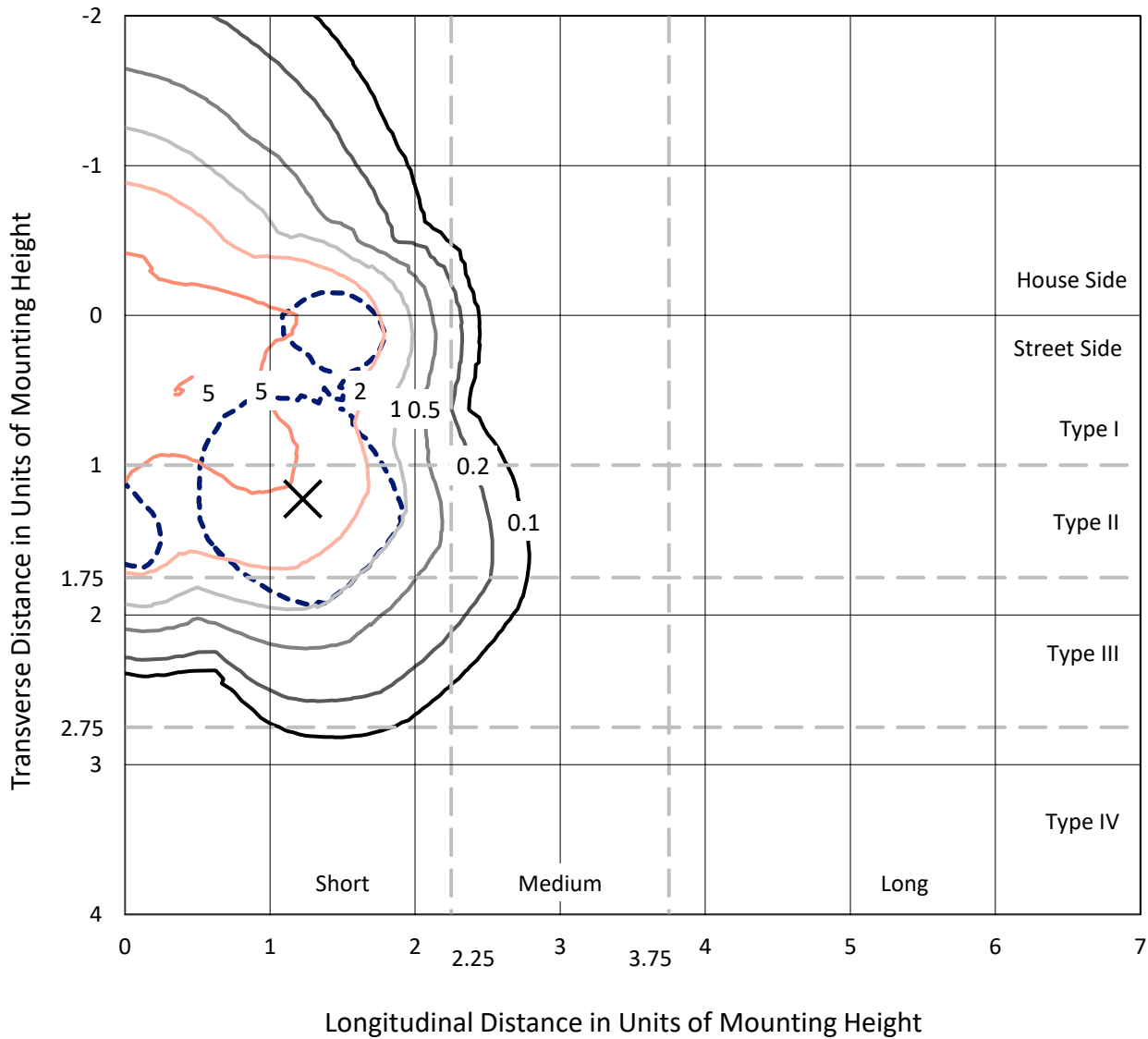
Lumens per Lamp: N/A  
Luminaire Lumens: 19330.5 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

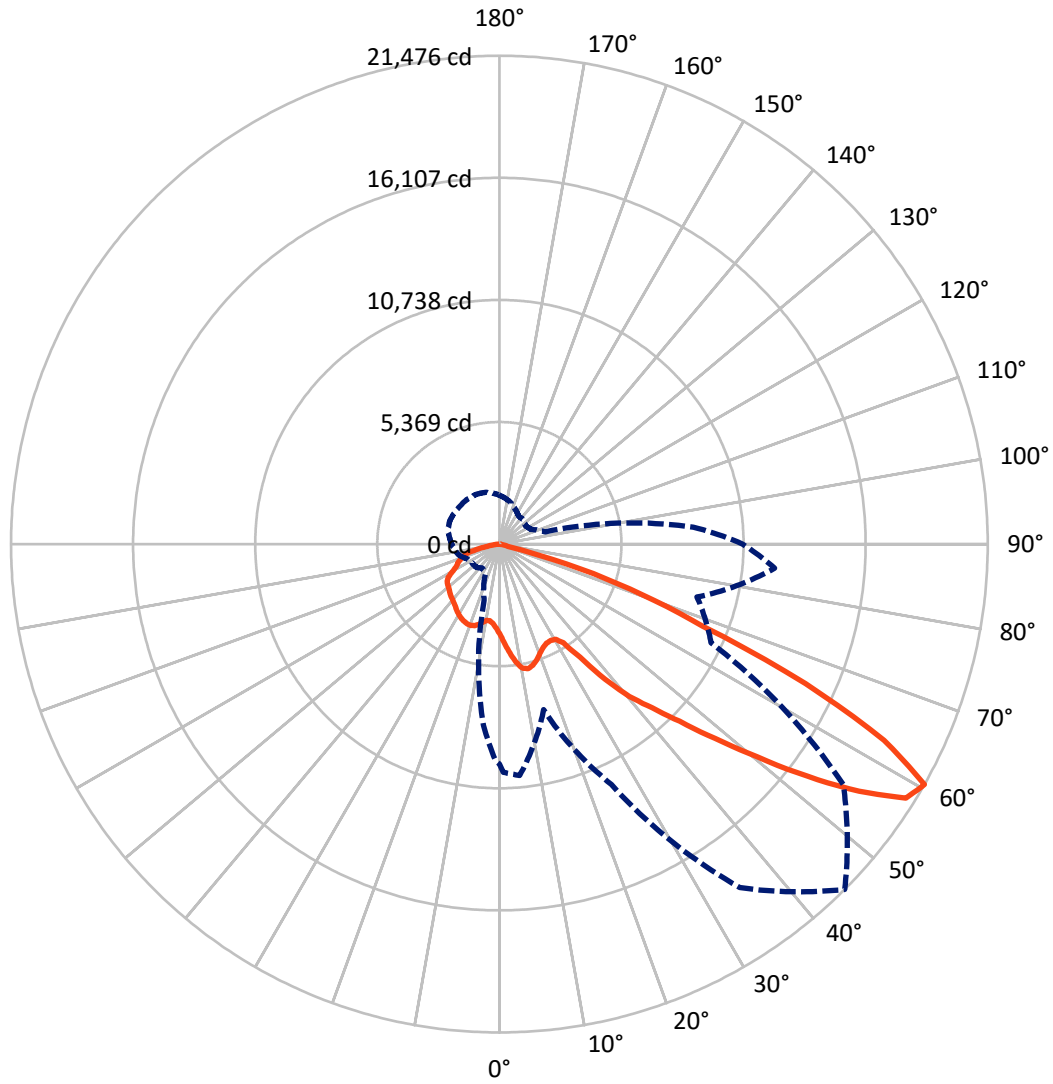
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	6776.0	0.0	6776.0
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	12554.5	0.0	12554.5
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	19330.5	0.0	19330.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.4	2.0
10°-20°	1224.3	6.3
20°-30°	1988.8	10.3
30°-40°	2804.7	14.5
40°-50°	3876.1	20.1
50°-60°	4989.7	25.8
60°-70°	3161.5	16.4
70°-80°	811.2	4.2
80°-90°	86.8	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°	19330.5	100.0
0°-180°	19330.5	100.0

**Coefficient of Utilization**



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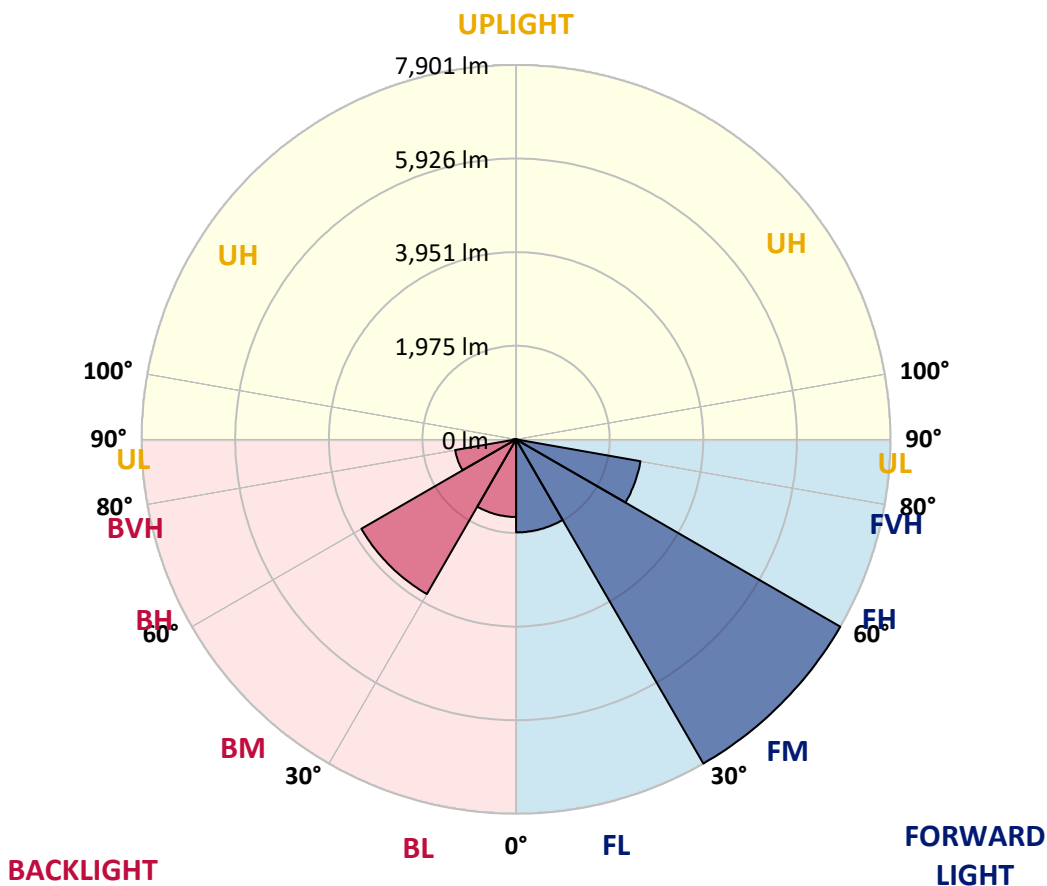
CATALOG NUMBER: GWS-SA4D-760-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1962.8	10.2			
FM (30°-60°)	7901.2	40.9			
FH (60°-80°)	2666.9	13.8			G2/5000
FVH (80°-90°)	23.6	0.1			G1/100
BL (0°-30°)	1637.7	8.5	B3/2500		
BM (30°-60°)	3769.3	19.5	B3/5000		
BH (60°-80°)	1305.8	6.8	B3/2500		G3/2500
BVH (80°-90°)	63.2	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°	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1
2.5°	4153.5	4181.8	4199.5	4233.2	4293.4	4327.1	4364.3	4323.5	4334.1	4328.8	4263.3
5°	4399.7	4433.3	4479.4	4578.6	4690.2	4752.2	4810.6	4801.7	4746.8	4654.7	4589.2
7.5°	4629.9	4668.9	4748.6	4909.8	5074.5	5170.2	5241.0	5195.0	5148.9	5003.7	4838.9
10°	4810.6	4833.6	4941.7	5157.8	5349.1	5457.1	5543.9	5533.3	5469.5	5306.5	5085.1
12.5°	4980.6	4996.6	5113.5	5329.6	5501.4	5549.2	5620.0	5643.1	5621.8	5499.6	5281.7
15°	5163.1	5193.2	5301.2	5466.0	5543.9	5494.3	5519.1	5582.9	5643.1	5643.1	5442.9
17.5°	5333.1	5359.7	5469.5	5540.3	5466.0	5334.9	5342.0	5423.4	5566.9	5717.5	5589.9
20°	5483.7	5508.5	5616.5	5549.2	5313.6	5122.3	5117.0	5216.2	5448.2	5765.3	5747.6
22.5°	5648.4	5683.8	5774.1	5556.3	5171.9	4929.3	4927.5	5030.2	5343.7	5813.1	5928.2
25°	5882.2	5937.1	5983.1	5618.3	5095.8	4803.5	4826.5	4924.0	5310.1	5891.0	6195.7
27.5°	6229.3	6273.6	6270.1	5747.6	5092.2	4752.2	4800.0	4913.3	5370.3	6029.2	6477.3
30°	6604.8	6627.9	6590.7	5928.2	5173.7	4784.0	4854.9	4989.5	5522.6	6257.7	6891.8
32.5°	7021.1	7049.4	6978.6	6199.2	5363.2	5019.6	5175.5	5241.0	5736.9	6587.1	7331.0
35°	7499.3	7554.2	7407.2	6557.0	5921.2	5878.6	6105.4	6020.3	6192.1	6976.8	7800.4
37.5°	8002.3	8004.1	7793.3	7086.6	7015.8	7088.4	7541.8	7276.1	7157.5	7410.7	8278.6
40°	8429.2	8418.6	8094.4	7800.4	7968.7	8257.4	8804.7	8397.3	8085.6	7993.5	8675.4
42.5°	8856.0	8817.1	8489.4	8253.8	8625.8	9219.1	9837.3	9337.8	8680.7	8523.1	9066.8
45°	9401.6	9389.2	8994.2	8434.5	9219.1	10296.0	11116.1	10306.7	9033.2	8831.2	9718.6
47.5°	10281.9	10221.6	9486.6	8420.3	9775.3	11730.7	12766.9	11527.0	9279.4	8838.3	10770.7
50°	11142.7	11068.3	10074.6	8418.6	10349.2	13218.5	14715.2	13009.5	9530.9	8880.8	11840.5
52.5°	12012.3	12012.3	11039.9	8618.7	10951.4	14879.9	16966.4	14856.9	9959.5	9437.0	13156.5
55°	12529.5	12667.7	12125.7	8957.0	11656.3	16835.3	19192.8	16851.3	10621.9	10441.3	14371.6
57.5°	11872.4	12131.0	12053.1	8721.4	12072.6	18271.8	21080.9	18363.9	10949.6	10559.9	14189.2
60°	9674.3	10033.9	10212.8	7531.2	11661.6	18438.3	21475.9	18463.1	10273.0	8992.4	12154.0
62.5°	6431.3	6727.1	6999.8	5380.9	10095.9	16587.4	18994.4	16592.7	8579.7	6711.1	8420.3
65°	3154.5	3374.2	3668.2	3181.1	7887.2	13859.7	14809.1	13408.1	6206.3	3756.7	4295.2
67.5°	825.4	887.4	928.1	1234.5	5650.2	9957.7	9658.4	9807.2	3987.0	1227.4	1122.9
70°	428.6	432.2	430.4	510.1	3818.7	6328.5	6656.2	6158.5	2782.6	513.7	442.8
72.5°	306.4	308.2	302.9	343.6	1843.8	3625.7	3756.7	3716.0	1457.7	304.6	302.9
75°	200.1	201.9	198.4	201.9	278.1	412.7	380.8	400.3	242.7	193.1	193.1
77.5°	118.7	120.4	118.7	122.2	118.7	118.7	109.8	109.8	104.5	104.5	106.3
80°	79.7	79.7	77.9	81.5	74.4	74.4	70.8	69.1	63.8	62.0	62.0
82.5°	47.8	49.6	47.8	47.8	44.3	44.3	40.7	39.0	33.7	33.7	31.9
85°	24.8	24.8	23.0	23.0	19.5	17.7	14.2	14.2	10.6	8.9	8.9
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°	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1
2.5°	4245.6	4210.2	4157.0	4105.7	4057.8	4008.2	3951.6	3893.1	3843.5	3792.2	3765.6
5°	4502.4	4429.8	4291.6	4169.4	4059.6	3969.3	3871.9	3788.6	3710.7	3646.9	3615.0
7.5°	4734.4	4621.1	4412.1	4219.0	4070.2	3946.3	3811.6	3687.7	3583.2	3505.2	3475.1
10°	4948.8	4814.1	4539.6	4295.2	4121.6	3983.4	3818.7	3650.5	3512.3	3409.6	3384.8
12.5°	5122.3	4968.2	4640.6	4357.2	4151.7	4002.9	3857.7	3712.5	3576.1	3443.2	3422.0
15°	5276.4	5094.0	4716.7	4396.1	4141.1	3951.6	3829.4	3811.6	3811.6	3661.1	3618.6
17.5°	5409.3	5209.1	4778.7	4413.9	4073.8	3799.2	3724.9	3878.9	4052.5	3944.5	3848.8
20°	5561.6	5318.9	4830.1	4413.9	3949.8	3606.2	3599.1	3861.2	4118.1	4119.8	4018.9
22.5°	5715.7	5446.5	4890.3	4397.9	3779.8	3383.0	3514.1	3790.4	4018.9	4116.3	4047.2
25°	5965.4	5623.6	4986.0	4385.5	3581.4	3230.7	3437.9	3696.5	3889.6	3992.3	3948.0
27.5°	6282.5	5857.4	5131.2	4405.0	3384.8	3140.4	3356.4	3574.3	3749.7	3840.0	3808.1
30°	6636.7	6126.6	5287.1	4438.7	3243.1	3094.3	3259.0	3434.4	3590.2	3680.6	3666.4
32.5°	7088.4	6418.9	5421.7	4392.6	3163.4	3071.3	3156.3	3282.1	3432.6	3489.3	3501.7
35°	7628.6	6741.2	5524.4	4211.9	3090.8	3046.5	3044.7	3122.6	3228.9	3319.2	3328.1
37.5°	8126.3	7118.5	5637.8	3902.0	2959.7	2984.5	2913.6	2959.7	3064.2	3154.5	3189.9
40°	8618.7	7501.1	5795.4	3507.0	2787.9	2846.3	2763.1	2795.0	2878.2	2996.9	3053.6
42.5°	9096.9	7846.5	5961.9	3103.2	2616.1	2653.3	2591.3	2623.2	2710.0	2858.7	2922.5
45°	9617.7	8314.1	6091.2	2722.3	2467.3	2451.4	2401.8	2447.8	2578.9	2741.8	2818.0
47.5°	10602.5	9050.9	6176.2	2469.1	2387.6	2272.5	2215.8	2315.0	2463.8	2628.5	2720.6
50°	11805.1	10117.1	6151.4	2307.9	2318.5	2088.3	2068.8	2199.8	2359.3	2531.1	2632.0
52.5°	12758.0	11163.9	5869.8	2153.8	2183.9	1971.4	1914.7	2106.0	2258.3	2433.6	2538.1
55°	13486.0	11516.4	5005.4	1971.4	1964.3	1886.3	1767.7	2008.6	2157.3	2320.3	2433.6
57.5°	12892.6	10731.8	3710.7	1719.8	1677.3	1718.1	1602.9	1843.8	2033.3	2194.5	2295.5
60°	10699.9	8556.7	2067.0	1523.2	1402.8	1502.0	1484.3	1670.3	1898.7	2068.8	2155.6
62.5°	7263.7	5698.0	1225.7	1204.4	1137.1	1278.8	1372.7	1494.9	1719.8	1858.0	1939.5
65°	3620.4	2768.4	814.8	901.5	910.4	1052.1	1229.2	1363.8	1551.6	1693.3	1774.8
67.5°	1050.3	860.8	619.9	689.0	784.6	898.0	1039.7	1199.1	1381.5	1549.8	1645.5
70°	453.4	458.7	492.4	573.9	667.7	784.6	926.3	1082.2	1236.3	1365.6	1438.2
72.5°	320.6	333.0	370.2	453.4	542.0	653.6	795.3	945.8	1057.4	1188.5	1264.6
75°	205.5	214.3	244.4	308.2	373.7	481.8	616.4	754.5	869.7	963.5	1036.2
77.5°	113.4	115.1	139.9	177.1	221.4	290.5	389.7	497.7	582.7	635.9	701.4
80°	65.5	65.5	77.9	101.0	127.5	170.0	224.9	278.1	329.4	363.1	395.0
82.5°	35.4	35.4	40.7	54.9	69.1	93.9	125.8	152.3	184.2	201.9	223.2
85°	10.6	10.6	14.2	19.5	24.8	35.4	49.6	63.8	77.9	90.3	102.7
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°	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1
2.5°	3760.3	3735.5	3721.3	3703.6	3708.9	3693.0	3684.1	3689.4	3657.5	3689.4	3721.3
5°	3602.6	3567.2	3538.9	3515.9	3505.2	3484.0	3471.6	3471.6	3452.1	3484.0	3522.9
7.5°	3464.5	3436.1	3422.0	3407.8	3391.9	3372.4	3351.1	3344.0	3331.6	3365.3	3399.0
10°	3372.4	3375.9	3384.8	3404.3	3400.7	3388.3	3356.4	3338.7	3338.7	3377.7	3429.1
12.5°	3414.9	3452.1	3473.3	3508.8	3515.9	3505.2	3473.3	3459.2	3494.6	3553.0	3638.1
15°	3579.6	3604.4	3622.1	3650.5	3648.7	3639.8	3615.0	3625.7	3742.6	3855.9	3932.1
17.5°	3758.5	3730.2	3726.6	3744.3	3749.7	3739.0	3724.9	3772.7	3965.7	4072.0	4111.0
20°	3887.8	3790.4	3769.1	3776.2	3790.4	3785.1	3785.1	3863.0	4063.2	4112.7	4063.2
22.5°	3926.8	3788.6	3756.7	3758.5	3778.0	3779.8	3788.6	3870.1	3987.0	3988.8	3912.6
25°	3864.8	3731.9	3708.9	3712.5	3735.5	3733.7	3737.3	3783.3	3834.7	3813.4	3756.7
27.5°	3747.9	3632.8	3625.7	3645.1	3675.3	3659.3	3648.7	3661.1	3685.9	3659.3	3609.7
30°	3615.0	3517.6	3521.2	3558.4	3590.2	3563.7	3537.1	3544.2	3546.0	3517.6	3460.9
32.5°	3475.1	3402.5	3414.9	3453.9	3491.1	3462.7	3434.4	3430.8	3397.2	3363.5	3308.6
35°	3335.2	3306.8	3322.8	3354.7	3386.6	3363.5	3345.8	3335.2	3262.6	3213.0	3166.9
37.5°	3207.7	3228.9	3257.3	3276.7	3287.4	3285.6	3275.0	3250.2	3154.5	3096.1	3035.9
40°	3094.3	3159.8	3189.9	3198.8	3214.7	3211.2	3209.4	3174.0	3048.3	2986.3	2917.2
42.5°	2991.6	3083.7	3135.0	3143.9	3152.8	3154.5	3149.2	3097.8	2954.4	2881.8	2816.2
45°	2892.4	3012.8	3078.4	3069.5	3081.9	3081.9	3087.2	3019.9	2862.3	2787.9	2718.8
47.5°	2805.6	2947.3	3007.5	2996.9	3004.0	3009.3	3014.6	2936.7	2761.3	2690.5	2619.6
50°	2725.9	2876.4	2927.8	2931.4	2931.4	2943.7	2942.0	2865.8	2676.3	2600.1	2529.3
52.5°	2640.9	2803.8	2858.7	2881.8	2888.8	2894.2	2869.4	2780.8	2589.5	2497.4	2431.9
55°	2541.7	2729.4	2779.0	2809.1	2823.3	2819.8	2786.1	2695.8	2500.9	2408.8	2334.5
57.5°	2391.1	2570.0	2640.9	2655.0	2678.1	2663.9	2624.9	2548.8	2359.3	2267.1	2191.0
60°	2226.4	2355.7	2412.4	2424.8	2407.1	2412.4	2407.1	2334.5	2169.7	2097.1	2019.2
62.5°	2010.3	2125.5	2185.7	2201.6	2171.5	2191.0	2183.9	2093.6	1928.8	1852.7	1783.6
65°	1847.4	1973.1	2044.0	2052.8	2044.0	2052.8	2028.0	1918.2	1762.4	1684.4	1613.6
67.5°	1719.8	1849.1	1923.5	1948.3	1939.5	1937.7	1898.7	1771.2	1610.0	1525.0	1434.7
70°	1500.2	1613.6	1709.2	1769.4	1769.4	1735.8	1661.4	1542.7	1413.4	1340.8	1270.0
72.5°	1328.4	1471.9	1565.7	1627.7	1640.1	1620.7	1516.2	1390.4	1241.6	1169.0	1094.6
75°	1094.6	1234.5	1335.5	1417.0	1432.9	1411.7	1291.2	1167.2	1029.1	958.2	883.8
77.5°	731.5	814.8	896.2	970.6	954.7	968.9	887.4	793.5	708.5	655.3	621.7
80°	412.7	467.6	492.4	533.1	533.1	533.1	480.0	435.7	387.9	357.8	324.1
82.5°	233.8	269.2	279.9	313.5	322.4	324.1	288.7	260.4	230.3	214.3	191.3
85°	108.0	127.5	129.3	148.8	155.9	170.0	154.1	134.6	116.9	109.8	95.6
87.5°	3.5	10.6	14.2	26.6	35.4	40.7	44.3	44.3	37.2	33.7	28.3
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: P637879

CATALOG NUMBER: GWS-SA4D-760-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1
2.5°	3760.3	3802.8	3852.4	3887.8	3951.6	4004.7	4059.6	4119.8	4164.1	4153.5
5°	3570.8	3641.6	3731.9	3815.2	3933.9	4054.3	4187.1	4323.5	4403.2	4399.7
7.5°	3464.5	3565.4	3675.3	3786.8	3926.8	4100.3	4304.0	4516.6	4624.6	4629.9
10°	3521.2	3629.2	3703.6	3797.5	3944.5	4162.3	4406.8	4661.8	4785.8	4810.6
12.5°	3700.1	3691.2	3685.9	3753.2	3930.3	4206.6	4506.0	4810.6	4950.5	4980.6
15°	3870.1	3687.7	3577.8	3623.9	3866.5	4235.0	4603.4	4973.6	5131.2	5163.1
17.5°	3902.0	3625.7	3422.0	3453.9	3765.6	4243.8	4697.2	5133.0	5303.0	5333.1
20°	3813.4	3546.0	3308.6	3264.3	3638.1	4220.8	4755.7	5265.8	5451.8	5483.7
22.5°	3701.8	3475.1	3223.6	3108.5	3482.2	4197.8	4821.2	5405.7	5620.0	5648.4
25°	3584.9	3384.8	3143.9	2968.5	3305.1	4183.6	4931.0	5589.9	5848.5	5882.2
27.5°	3460.9	3275.0	3074.8	2901.2	3142.1	4201.3	5086.9	5887.5	6181.5	6229.3
30°	3328.1	3165.2	3030.5	2878.2	3030.5	4217.2	5258.7	6192.1	6537.5	6604.8
32.5°	3189.9	3064.2	2984.5	2888.8	2961.5	4180.1	5409.3	6534.0	6962.6	7021.1
35°	3051.8	2961.5	2926.0	2908.3	2869.4	4043.7	5531.5	6879.4	7447.9	7499.3
37.5°	2922.5	2855.2	2844.6	2864.0	2727.7	3820.5	5673.2	7318.6	7924.4	8002.3
40°	2802.1	2740.1	2738.3	2734.7	2571.8	3515.9	5864.5	7765.0	8393.8	8429.2
42.5°	2690.5	2612.5	2626.7	2584.2	2444.3	3186.4	6045.1	8145.8	8831.2	8856.0
45°	2591.3	2488.5	2504.5	2451.4	2384.0	2841.0	6204.5	8595.7	9385.6	9401.6
47.5°	2495.6	2385.8	2341.5	2338.0	2373.4	2522.2	6360.4	9461.8	10253.5	10281.9
50°	2407.1	2288.4	2162.6	2240.6	2307.9	2283.1	6555.2	10389.9	11149.8	11142.7
52.5°	2322.1	2166.2	1987.3	2137.8	2137.8	2106.0	6500.3	10953.2	11890.1	12012.3
55°	2224.6	1969.6	1804.9	1966.0	1888.1	1946.6	5527.9	11137.4	12356.0	12529.5
57.5°	2031.6	1726.9	1583.5	1670.3	1553.4	1804.9	3971.1	10223.4	11564.2	11872.4
60°	1845.6	1548.0	1454.2	1438.2	1285.9	1471.9	2573.6	8004.1	9518.5	9674.3
62.5°	1627.7	1393.9	1314.2	1192.0	1034.4	1071.6	1558.7	5267.6	6395.8	6431.3
65°	1463.0	1262.9	1110.5	965.3	846.6	777.6	921.0	2539.9	3197.0	3154.5
67.5°	1255.8	1082.2	937.0	832.5	735.1	648.3	612.8	754.5	853.7	825.4
70°	1117.6	951.1	811.2	712.0	621.7	534.9	472.9	444.6	435.7	428.6
72.5°	963.5	818.3	673.1	577.4	492.4	412.7	356.0	322.4	313.5	306.4
75°	768.7	632.3	499.5	409.1	334.8	278.1	240.9	212.5	207.2	200.1
77.5°	508.3	405.6	297.6	242.7	198.4	168.3	143.5	125.8	122.2	118.7
80°	279.9	233.8	182.4	147.0	118.7	102.7	93.9	83.2	81.5	79.7
82.5°	166.5	139.9	104.5	83.2	69.1	62.0	56.7	51.4	49.6	47.8
85°	83.2	65.5	46.1	39.0	35.4	31.9	31.9	26.6	24.8	24.8
87.5°	21.3	17.7	10.6	8.9	8.9	8.9	7.1	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)