

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: P643708

Luminaire Tested: GWS-SA6F-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-740-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

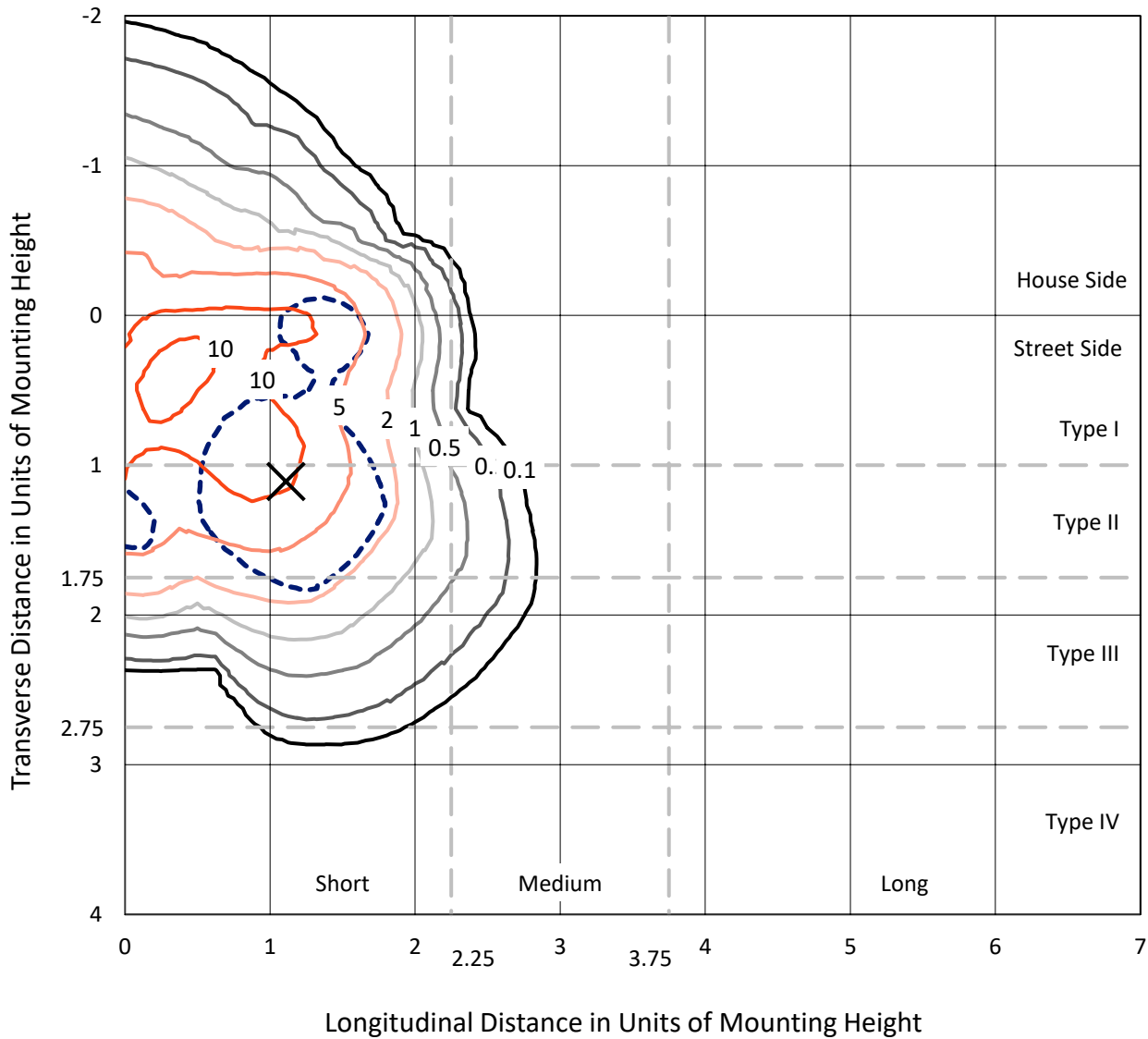
Lumens per Lamp: N/A  
Luminaire Lumens: 26552.1 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

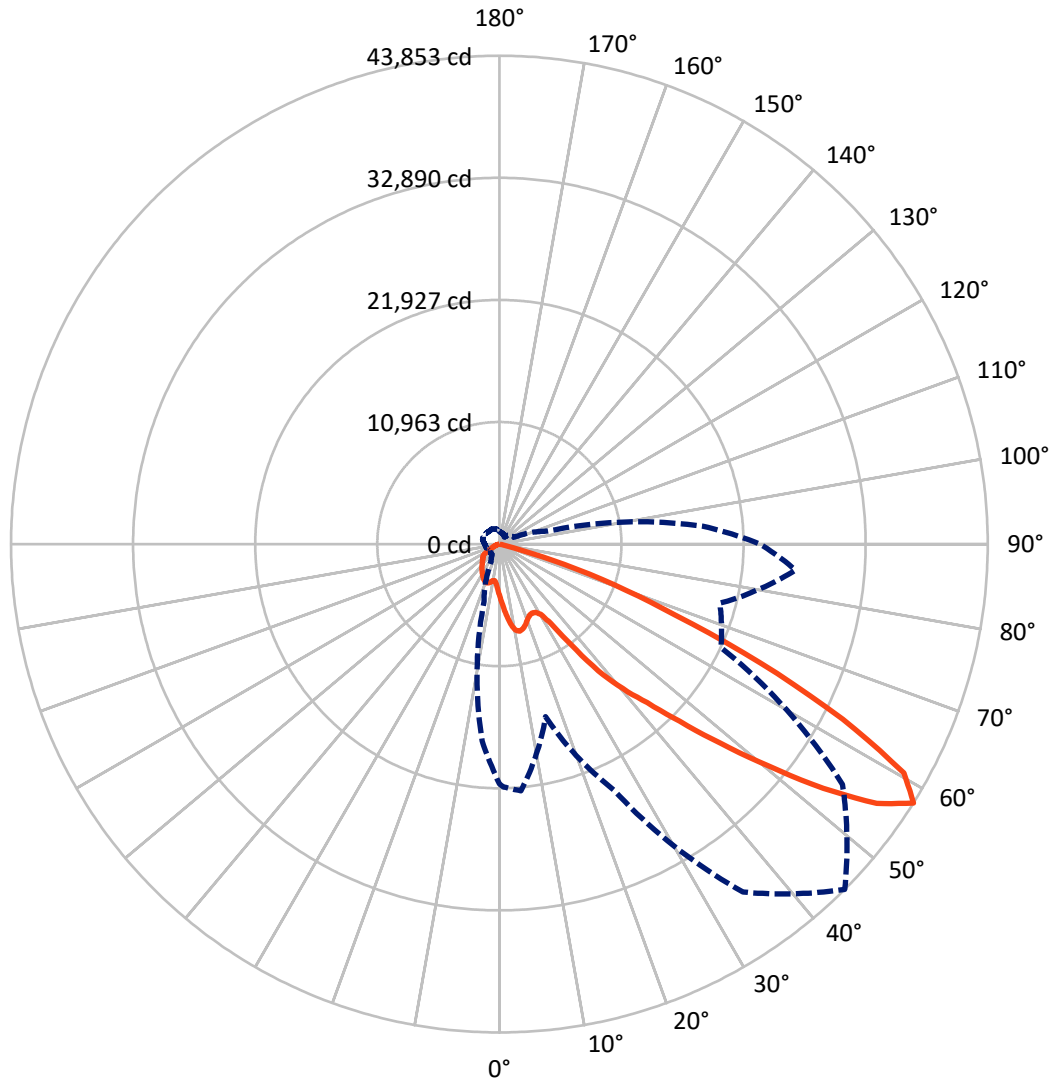
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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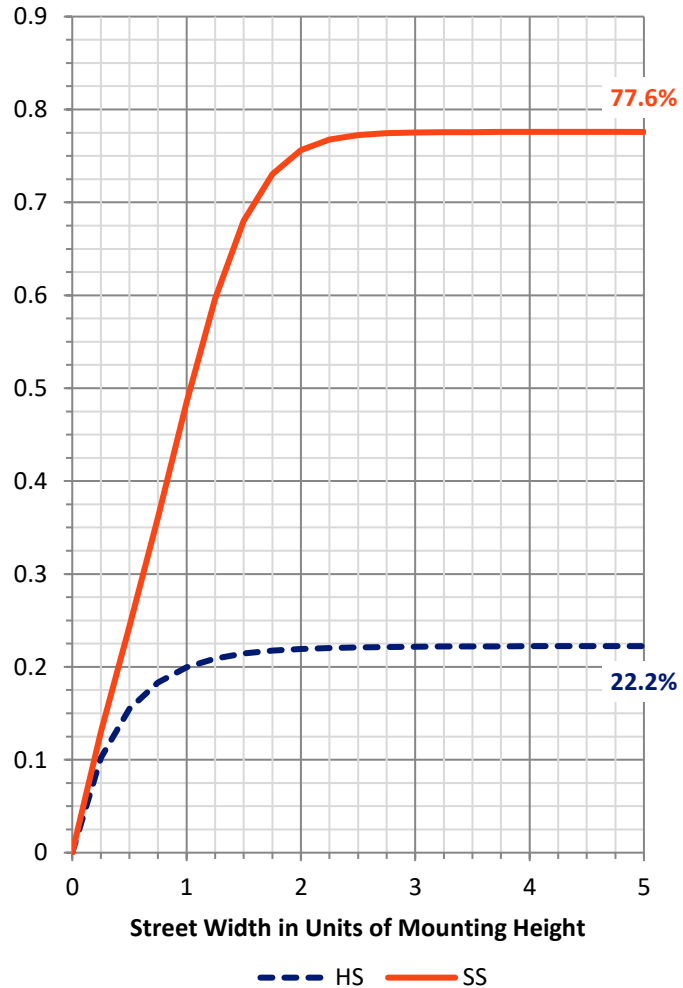
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5945.7	0.0	5945.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	20606.4	0.0	20606.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	26552.1	0.0	26552.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.1	1.7
10°-20°	1485.2	5.6
20°-30°	2412.6	9.1
30°-40°	3727.8	14.0
40°-50°	5977.6	22.5
50°-60°	8169.7	30.8
60°-70°	3956.8	14.9
70°-80°	362.3	1.4
80°-90°	1.1	0.0
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°	26552.1	100.0
0°-180°	26552.1	100.0

**Coefficient of Utilization**



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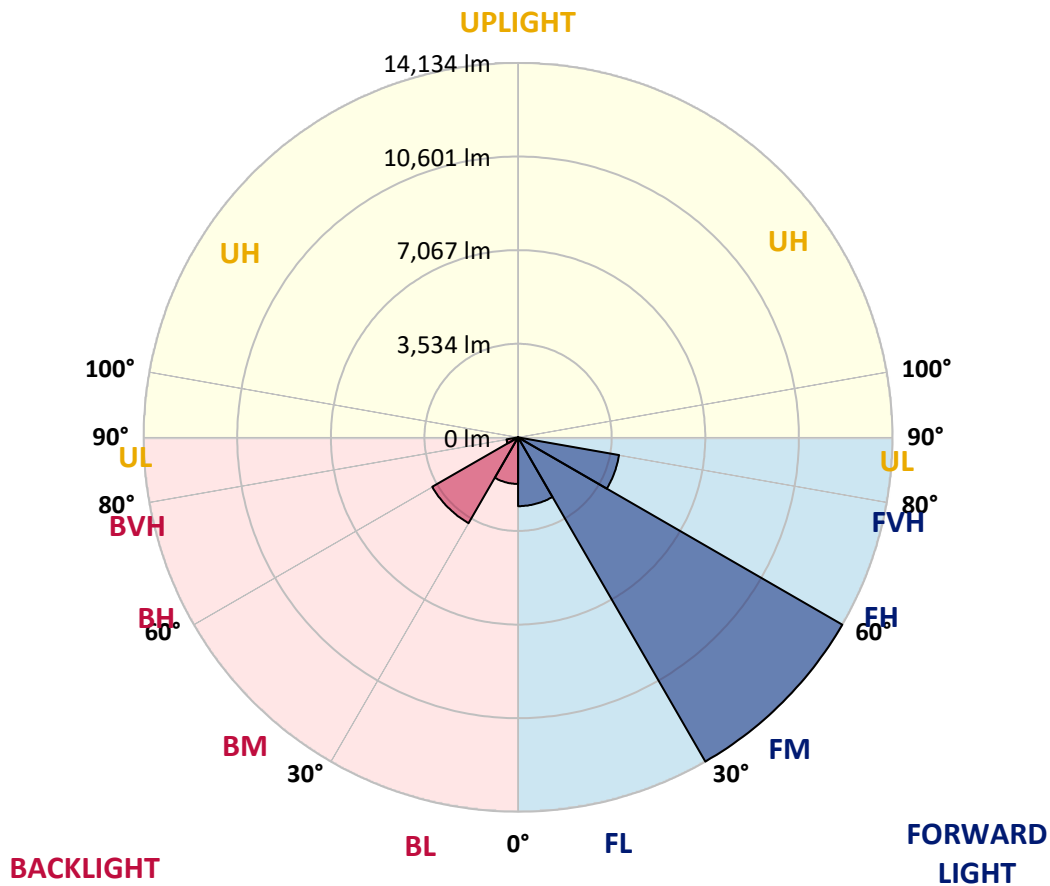
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2597.6	9.8			
FM (30°-60°)	14134.3	53.2			
FH (60°-80°)	3873.4	14.6			G2/5000
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	1759.3	6.6	B3/2500		
BM (30°-60°)	3740.8	14.1	B3/5000		
BH (60°-80°)	445.7	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8
2.5°	5055.7	5087.8	5141.3	5255.5	5351.9	5416.1	5444.6	5437.5	5398.2	5369.7	5312.6
5°	5598.0	5598.0	5701.5	5962.0	6161.8	6286.6	6350.9	6311.6	6233.1	6108.2	5915.6
7.5°	6072.6	6090.4	6265.2	6636.3	6939.6	7118.0	7221.4	7200.0	7060.9	6821.8	6436.5
10°	6443.6	6465.0	6697.0	7150.1	7506.9	7688.8	7842.2	7856.5	7703.1	7385.6	6943.1
12.5°	6804.0	6825.4	7068.0	7503.3	7817.3	7892.2	8027.8	8081.3	8042.1	7817.3	7357.0
15°	7192.9	7242.8	7449.8	7774.5	7906.5	7817.3	7906.5	8002.8	8134.8	8113.4	7699.5
17.5°	7574.7	7610.3	7820.8	7935.0	7788.7	7556.8	7599.6	7713.8	8013.5	8306.1	8038.5
20°	7927.9	7977.8	8152.7	8002.8	7560.4	7200.0	7203.6	7353.4	7810.1	8423.8	8384.6
22.5°	8298.9	8373.9	8498.7	8077.7	7349.9	6918.2	6936.0	7071.6	7649.6	8534.4	8777.0
25°	8784.2	8855.5	8937.6	8263.3	7282.1	6779.0	6846.8	6971.7	7649.6	8723.5	9262.3
27.5°	9440.7	9490.6	9494.2	8609.3	7399.8	6800.4	6943.1	7085.9	7877.9	9101.7	9911.6
30°	10264.9	10343.3	10239.9	9148.1	7767.3	7085.9	7296.4	7474.8	8370.3	9740.4	10867.8
32.5°	11267.4	11378.0	11238.9	9947.3	8534.4	8070.6	8452.4	8555.8	9155.2	10664.5	11952.5
35°	12444.8	12537.6	12387.8	11053.4	10325.5	10411.1	11103.3	10971.3	10732.3	11802.6	13219.1
37.5°	13736.4	13822.1	13533.1	12730.3	12972.9	13344.0	14450.0	13996.9	13226.2	13269.0	14592.7
40°	14921.0	15013.7	14560.6	14553.5	15053.0	15730.9	17065.3	16440.9	15391.9	15188.6	15880.7
42.5°	16148.3	16212.5	15802.2	15523.9	16658.5	18053.6	19466.5	18624.5	16826.2	16605.0	17493.4
45°	17900.2	18035.7	17304.3	16002.0	18103.5	20725.9	22695.4	21050.6	17803.8	17625.4	19962.4
47.5°	20476.2	20576.1	19084.7	16301.7	19448.6	24054.8	26730.7	24197.5	18663.7	18257.0	23337.7
50°	22606.2	22674.0	20722.4	16630.0	20879.4	27644.1	31329.8	27929.5	19630.6	19302.4	26488.1
52.5°	24176.1	24433.0	22873.8	17304.3	22759.7	31864.9	36421.1	32350.2	21139.8	21321.8	29099.8
55°	24500.8	24850.4	24343.8	17718.2	24415.2	36164.3	41123.6	36307.0	22645.5	22852.4	29977.5
57.5°	21532.3	21810.6	22231.6	16048.4	24375.9	38133.7	43853.1	37620.0	21960.4	20494.0	26691.5
60°	16130.5	16323.2	17086.7	12266.4	22417.1	36392.6	41726.6	35386.5	19202.5	15638.1	20337.0
62.5°	9565.5	9651.2	10618.1	7945.7	18606.6	31340.5	34605.1	30534.1	15174.3	10518.2	12455.5
65°	3671.4	3635.7	4374.2	3921.1	13682.9	24964.6	25738.8	23277.0	10411.1	4820.2	4748.9
67.5°	567.3	542.3	731.4	1159.6	9868.8	17300.8	16983.2	16776.3	6522.1	1123.9	981.2
70°	128.4	128.4	157.0	342.5	6029.8	10165.0	10878.5	10371.9	4174.4	239.0	128.4
72.5°	60.7	60.7	74.9	146.3	2183.6	4188.7	4880.9	4806.0	1355.8	78.5	46.4
75°	21.4	25.0	25.0	32.1	132.0	217.6	499.5	356.8	85.6	0.0	0.0
77.5°	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8
2.5°	5187.7	5162.8	5070.0	4945.1	4823.8	4716.8	4606.2	4474.1	4377.8	4267.2	4231.5
5°	5765.7	5608.7	5355.4	5091.4	4848.8	4641.8	4442.0	4228.0	4071.0	3914.0	3860.5
7.5°	6254.5	6022.6	5612.3	5216.3	4884.5	4591.9	4302.9	4010.3	3782.0	3596.4	3539.4
10°	6693.4	6425.8	5876.3	5387.5	4970.1	4631.1	4281.5	3914.0	3617.9	3396.6	3343.1
12.5°	7071.6	6761.2	6101.1	5516.0	5005.8	4616.9	4277.9	3985.3	3717.8	3464.4	3396.6
15°	7389.1	7046.6	6290.2	5601.6	4952.2	4438.5	4142.3	4096.0	4074.5	3796.2	3664.2
17.5°	7699.5	7314.2	6443.6	5640.9	4802.4	4124.5	3910.4	4120.9	4345.7	4163.7	3996.1
20°	8024.2	7585.4	6600.6	5648.0	4552.6	3771.3	3735.6	4067.4	4352.8	4295.8	4138.8
22.5°	8406.0	7924.3	6796.9	5644.4	4238.7	3471.6	3607.1	3963.9	4195.9	4192.3	4067.4
25°	8959.0	8352.5	7060.9	5665.8	3896.1	3239.7	3464.4	3789.1	3978.2	3971.1	3867.6
27.5°	9551.3	8862.7	7403.4	5719.3	3603.6	3104.1	3296.7	3550.1	3714.2	3707.1	3617.9
30°	10382.6	9451.4	7731.6	5722.9	3393.1	3032.7	3111.2	3286.0	3443.0	3425.2	3357.4
32.5°	11392.3	10115.0	8006.4	5519.5	3261.1	2964.9	2918.5	3007.7	3129.1	3104.1	3086.2
35°	12612.5	10903.5	8241.9	5073.6	3057.7	2829.3	2704.5	2722.3	2807.9	2822.2	2815.1
37.5°	14004.0	11841.9	8534.4	4484.9	2783.0	2633.1	2465.4	2451.1	2501.1	2547.5	2583.2
40°	15377.7	12898.0	8930.5	3889.0	2533.2	2383.4	2222.8	2187.1	2208.5	2290.6	2365.5
42.5°	16922.6	14121.8	9358.6	3378.8	2362.0	2108.6	1955.2	1887.4	1948.1	2080.1	2169.3
45°	19148.9	15837.9	9776.1	2972.1	2290.6	1866.0	1659.1	1651.9	1719.7	1891.0	1990.9
47.5°	22274.4	18057.2	10050.8	2654.5	2287.0	1676.9	1430.7	1473.5	1552.0	1719.7	1833.9
50°	25321.4	20836.6	9747.5	2411.9	2212.1	1552.0	1259.5	1345.1	1423.6	1569.9	1687.6
52.5°	27158.9	22331.5	8566.5	2183.6	1980.2	1495.0	1091.8	1241.6	1255.9	1387.9	1512.8
55°	26966.2	21364.6	6561.4	1830.3	1637.7	1412.9	917.0	1120.3	1127.5	1227.4	1334.4
57.5°	23405.4	18342.6	4506.3	1484.2	1230.9	1166.7	756.4	945.5	1013.3	1073.9	1152.4
60°	17443.5	13383.2	2008.7	1206.0	781.4	788.5	645.8	713.6	817.0	888.4	956.2
62.5°	10279.1	7699.5	817.0	724.3	431.7	495.9	520.9	520.9	585.1	638.7	681.5
65°	3885.4	2693.8	331.8	363.9	224.8	231.9	306.8	378.2	428.1	474.5	531.6
67.5°	681.5	471.0	171.3	135.6	132.0	117.7	157.0	246.2	274.7	310.4	335.4
70°	114.2	96.3	71.4	67.8	60.7	64.2	103.5	174.8	192.7	203.4	214.1
72.5°	32.1	28.5	21.4	17.8	14.3	17.8	64.2	135.6	142.7	149.9	160.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	25.0	96.3	103.5	107.0	117.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	28.5	35.7	28.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8
2.5°	4210.1	4138.8	4099.5	4078.1	4078.1	4049.6	4017.5	4006.8	4053.1	4053.1	4131.6
5°	3792.7	3735.6	3671.4	3632.1	3571.5	3582.2	3546.5	3542.9	3589.3	3610.7	3692.8
7.5°	3503.7	3432.3	3393.1	3368.1	3336.0	3321.7	3289.6	3278.9	3303.9	3339.6	3418.1
10°	3311.0	3300.3	3296.7	3314.6	3314.6	3296.7	3268.2	3250.4	3257.5	3325.3	3414.5
12.5°	3361.0	3382.4	3389.5	3418.1	3432.3	3418.1	3396.6	3403.8	3450.2	3575.0	3707.1
15°	3578.6	3560.8	3553.6	3567.9	3578.6	3564.3	3557.2	3610.7	3771.3	3949.7	4099.5
17.5°	3810.5	3696.3	3646.4	3646.4	3653.5	3646.4	3653.5	3757.0	4017.5	4195.9	4306.5
20°	3928.3	3717.8	3639.3	3621.4	3635.7	3639.3	3664.2	3782.0	4067.4	4192.3	4217.3
22.5°	3892.6	3628.6	3539.4	3525.1	3539.4	3553.6	3578.6	3678.5	3946.1	4010.3	3999.6
25°	3714.2	3453.7	3382.4	3382.4	3414.5	3410.9	3421.6	3493.0	3714.2	3753.4	3735.6
27.5°	3489.4	3243.2	3182.6	3218.2	3246.8	3239.7	3243.2	3303.9	3468.0	3478.7	3460.9
30°	3261.1	3047.0	2989.9	3032.7	3072.0	3064.8	3068.4	3129.1	3232.5	3221.8	3196.8
32.5°	3029.1	2872.2	2829.3	2854.3	2915.0	2907.8	2922.1	2986.3	3025.6	2979.2	2950.7
35°	2815.1	2733.0	2700.9	2715.2	2761.6	2772.3	2797.2	2840.1	2840.1	2783.0	2733.0
37.5°	2615.3	2604.6	2583.2	2565.3	2608.1	2640.2	2675.9	2725.9	2654.5	2572.5	2526.1
40°	2429.7	2476.1	2447.6	2401.2	2426.2	2472.6	2543.9	2583.2	2497.5	2415.5	2337.0
42.5°	2258.5	2337.0	2326.3	2269.2	2290.6	2333.4	2415.5	2447.6	2347.7	2254.9	2180.0
45°	2094.4	2205.0	2212.1	2140.7	2162.1	2205.0	2301.3	2312.0	2183.6	2083.7	2030.1
47.5°	1951.6	2073.0	2076.5	2023.0	2030.1	2090.8	2180.0	2183.6	2037.3	1944.5	1876.7
50°	1816.1	1955.2	1965.9	1919.5	1926.7	1998.0	2073.0	2058.7	1901.7	1805.4	1744.7
52.5°	1651.9	1841.0	1866.0	1844.6	1873.1	1930.2	1976.6	1926.7	1744.7	1648.4	1594.9
55°	1473.5	1719.7	1773.2	1759.0	1791.1	1837.5	1848.2	1816.1	1587.7	1491.4	1441.4
57.5°	1266.6	1416.5	1509.2	1480.7	1505.7	1552.0	1584.1	1559.2	1387.9	1313.0	1270.2
60°	1049.0	1148.9	1170.3	1123.9	1102.5	1184.5	1259.5	1227.4	1081.1	1034.7	984.7
62.5°	767.1	881.3	895.5	834.9	809.9	899.1	963.3	931.2	770.7	720.7	681.5
65°	613.7	720.7	749.3	692.2	677.9	745.7	784.9	706.4	592.3	538.8	495.9
67.5°	403.2	488.8	563.7	560.2	531.6	553.0	524.5	460.3	378.2	349.7	321.1
70°	249.8	299.7	346.1	363.9	360.4	353.2	314.0	267.6	242.6	231.9	217.6
72.5°	192.7	242.6	278.3	289.0	292.6	281.9	249.8	206.9	182.0	167.7	157.0
75°	142.7	182.0	210.5	224.8	231.9	224.8	192.7	164.1	139.1	128.4	117.7
77.5°	50.0	60.7	74.9	82.1	78.5	74.9	67.8	67.8	53.5	50.0	42.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P643708

CATALOG NUMBER: GWS-SA6F-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8	4666.8
2.5°	4220.8	4285.1	4402.8	4509.8	4624.0	4741.7	4870.2	5002.2	5062.9	5055.7
5°	3817.7	3956.8	4149.5	4360.0	4595.5	4848.8	5130.6	5419.6	5544.5	5598.0
7.5°	3564.3	3760.6	4013.9	4281.5	4591.9	4952.2	5376.8	5830.0	6011.9	6072.6
10°	3596.4	3824.8	4035.3	4295.8	4627.6	5095.0	5623.0	6161.8	6375.8	6443.6
12.5°	3856.9	3906.9	3963.9	4178.0	4595.5	5202.0	5847.8	6490.0	6736.2	6804.0
15°	4092.4	3860.5	3753.4	3949.7	4481.3	5276.9	6076.1	6843.2	7114.4	7192.9
17.5°	4103.1	3753.4	3514.4	3667.8	4295.8	5309.0	6300.9	7203.6	7499.7	7574.7
20°	3971.1	3635.7	3328.9	3332.4	4042.4	5301.9	6486.4	7528.3	7860.1	7927.9
22.5°	3778.4	3496.5	3179.0	3068.4	3771.3	5287.6	6689.8	7874.4	8234.7	8298.9
25°	3564.3	3318.1	3036.3	2868.6	3500.1	5301.9	6975.2	8327.5	8723.5	8784.2
27.5°	3332.4	3121.9	2925.7	2790.1	3271.8	5355.4	7317.8	8905.5	9376.4	9440.7
30°	3089.8	2932.8	2854.3	2772.3	3129.1	5369.7	7688.8	9579.8	10175.7	10264.9
32.5°	2850.8	2765.1	2768.7	2783.0	2993.5	5269.8	8027.8	10329.1	11124.7	11267.4
35°	2629.5	2604.6	2675.9	2747.3	2797.2	5012.9	8323.9	11213.9	12298.6	12444.8
37.5°	2440.4	2461.9	2551.1	2622.4	2583.2	4649.0	8716.4	12320.0	13611.5	13736.4
40°	2258.5	2312.0	2415.5	2447.6	2419.0	4224.4	9187.3	13386.8	14749.7	14921.0
42.5°	2090.8	2130.0	2276.3	2283.5	2372.7	3792.7	9640.5	14535.6	16059.1	16148.3
45°	1955.2	1948.1	2097.9	2144.3	2433.3	3314.6	10082.9	16066.3	17771.7	17900.2
47.5°	1823.2	1816.1	1851.7	2062.2	2458.3	2872.2	10521.7	18306.9	20255.0	20476.2
50°	1698.3	1709.0	1598.4	2023.0	2322.7	2533.2	10721.5	20379.9	22513.5	22606.2
52.5°	1587.7	1548.5	1355.8	1894.6	2033.7	2212.1	10154.3	21321.8	23912.1	24176.1
55°	1430.7	1213.1	1116.8	1537.8	1605.6	1930.2	8316.8	20775.9	24033.4	24500.8
57.5°	1223.8	952.6	949.1	1134.6	1134.6	1791.1	5326.9	17750.3	20711.7	21532.3
60°	941.9	738.6	784.9	788.5	727.9	1305.9	2989.9	12858.7	15313.4	16130.5
62.5°	670.8	563.7	592.3	471.0	417.4	652.9	1434.3	7403.4	9451.4	9565.5
65°	449.6	381.8	310.4	260.5	256.9	278.3	592.3	2675.9	3253.9	3671.4
67.5°	296.1	231.9	164.1	164.1	185.5	185.5	224.8	442.4	620.8	567.3
70°	192.7	160.6	103.5	99.9	121.3	121.3	114.2	121.3	128.4	128.4
72.5°	142.7	121.3	60.7	53.5	67.8	71.4	64.2	60.7	60.7	60.7
75°	107.0	85.6	35.7	25.0	32.1	42.8	35.7	25.0	25.0	21.4
77.5°	42.8	32.1	14.3	10.7	17.8	25.0	21.4	10.7	7.1	7.1
80°	3.6	7.1	7.1	7.1	10.7	14.3	17.8	7.1	3.6	3.6
82.5°	0.0	3.6	3.6	3.6	7.1	10.7	14.3	7.1	3.6	3.6
85°	0.0	0.0	0.0	0.0	7.1	10.7	7.1	3.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	3.6	10.7	7.1	3.6	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)