

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: P641016

Luminaire Tested: GWS-SA5F-722-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-722-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

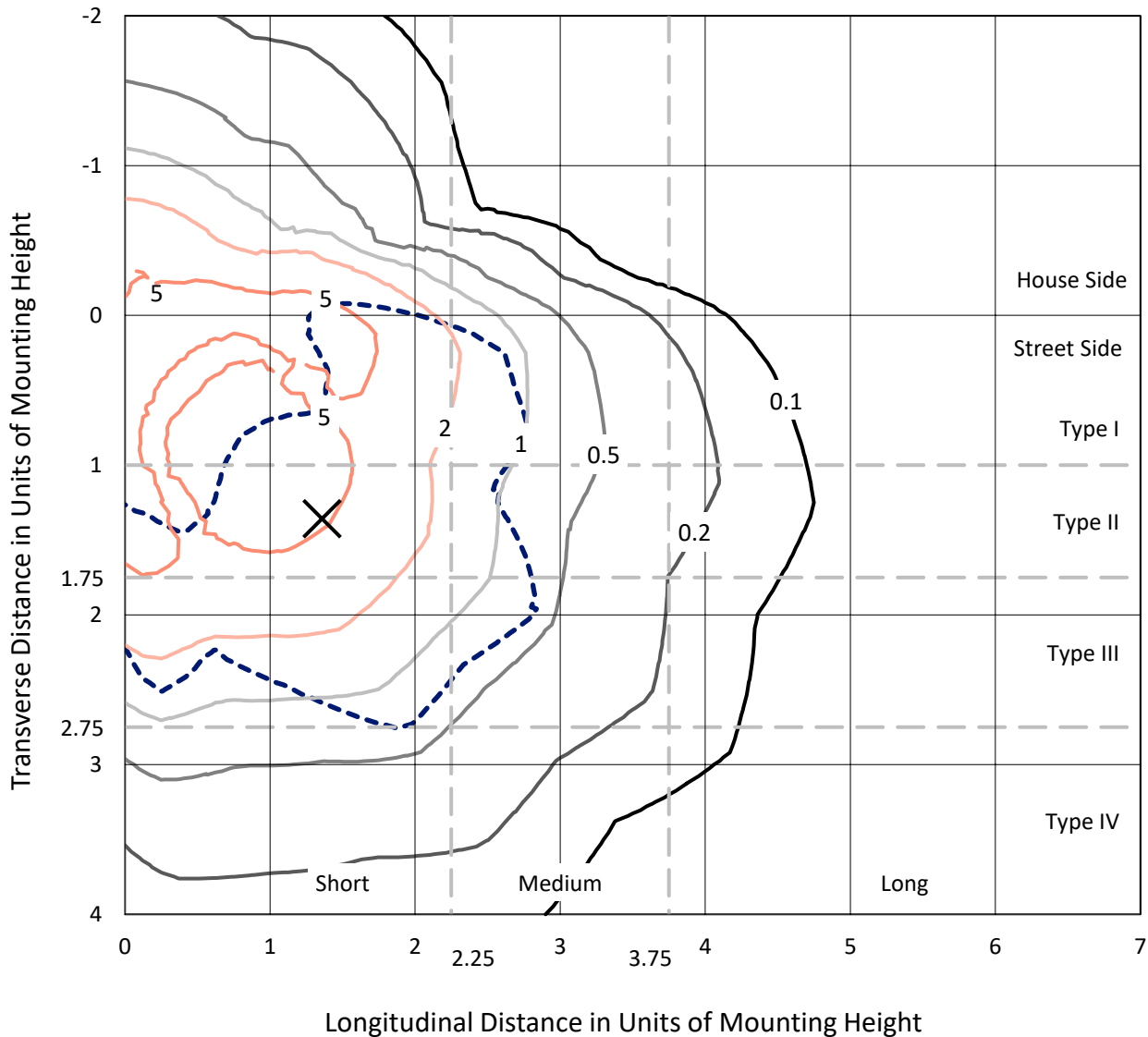
Lumens per Lamp: N/A  
Luminaire Lumens: 29110 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P641016  
 CATALOG NUMBER: GWS-SA5F-722-U-SLR-W

### Iso-Footcandle Lines of Horizontal Illumination

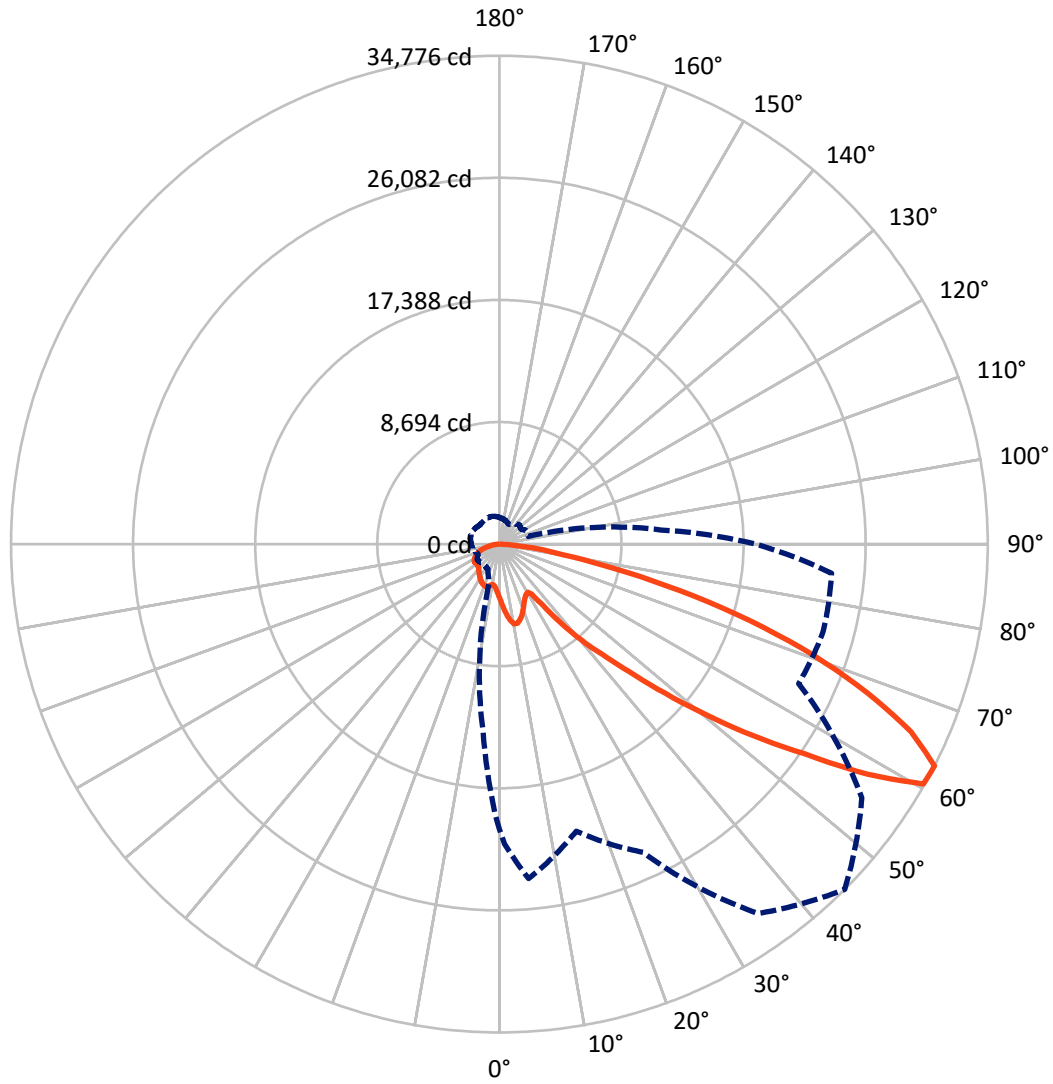
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P641016  
CATALOG NUMBER: GWS-SA5F-722-U-SLR-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P641016

CATALOG NUMBER: GWS-SA5F-722-U-SLR-W

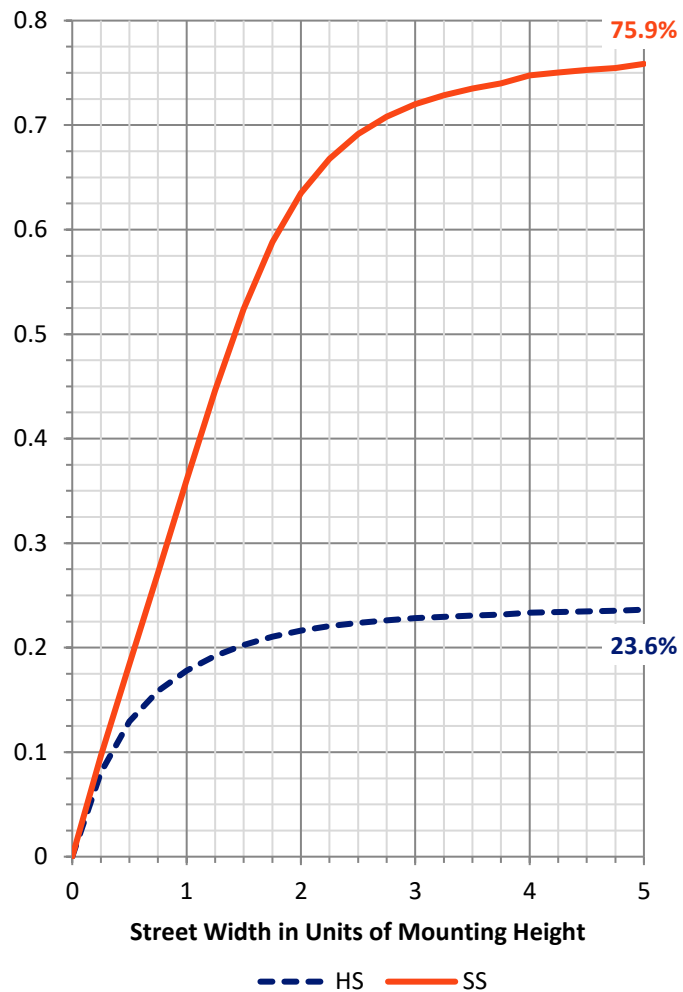
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6946.2	0.0	6946.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	22163.8	0.0	22163.8
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	29110.0	0.0	29110.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.3	1.3
10°-20°	1182.8	4.1
20°-30°	1837.2	6.3
30°-40°	2494.4	8.6
40°-50°	3953.5	13.6
50°-60°	6973.9	24.0
60°-70°	7759.6	26.7
70°-80°	3935.3	13.5
80°-90°	595.9	2.0
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°	29110.0	100.0
0°-180°	29110.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641016

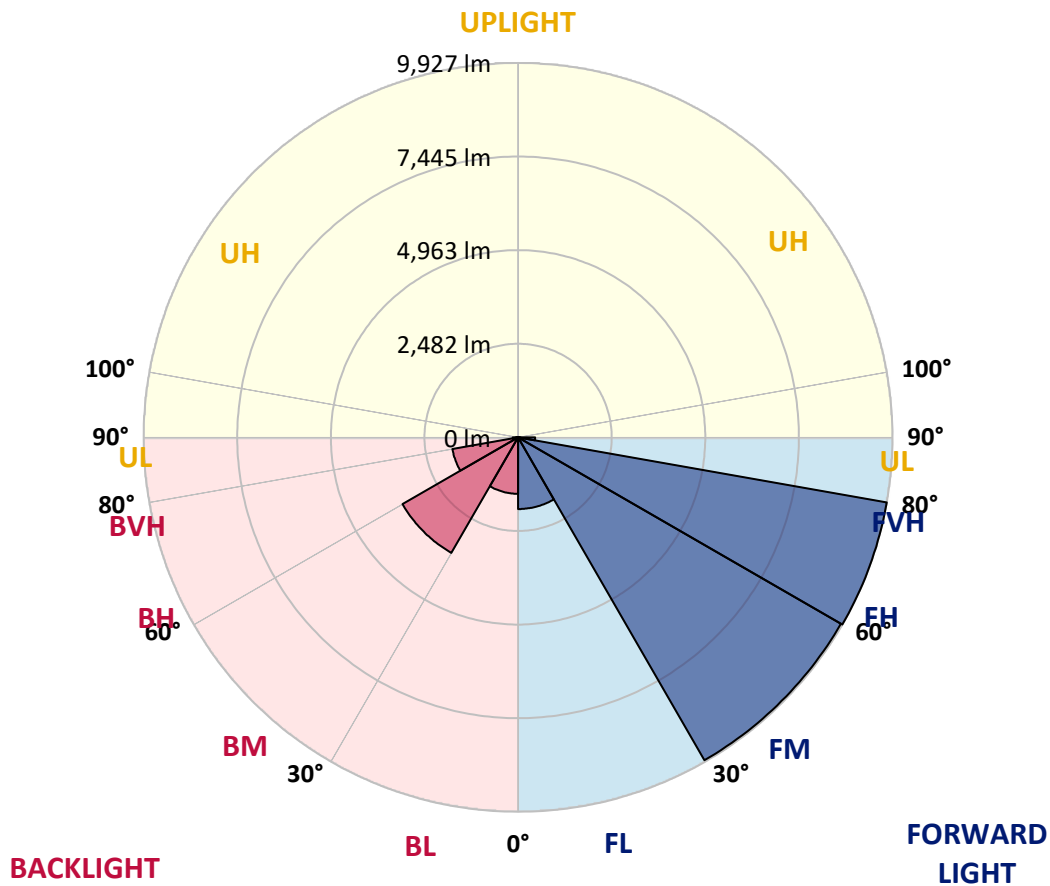
CATALOG NUMBER: GWS-SA5F-722-U-SLR-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.6	6.5			
FM (30°-60°)	9884.1	34.0			
FH (60°-80°)	9926.8	34.1			G4/12000
FVH (80°-90°)	452.3	1.6			G3/500
BL (0°-30°)	1496.7	5.1	B3/2500		
BM (30°-60°)	3537.7	12.2	B3/5000		
BH (60°-80°)	1768.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	143.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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CATALOG NUMBER: GWS-SA5F-722-U-SLR-W

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5
2.5°	4152.2	4150.0	4191.9	4255.8	4315.3	4341.7	4385.8	4381.4	4346.2	4299.9	4284.4
5°	4478.4	4487.2	4559.9	4701.0	4857.5	4923.6	4952.2	4941.2	4877.3	4795.8	4652.5
7.5°	4773.7	4789.1	4901.5	5113.1	5307.1	5395.2	5465.7	5452.5	5360.0	5207.9	4996.3
10°	4989.7	5007.3	5141.8	5390.8	5606.8	5683.9	5774.3	5778.7	5697.2	5492.2	5276.2
12.5°	5205.7	5223.3	5348.9	5575.9	5717.0	5719.2	5772.1	5800.7	5805.2	5710.4	5494.4
15°	5430.5	5445.9	5560.5	5688.3	5681.7	5558.3	5558.3	5613.4	5734.6	5803.0	5653.1
17.5°	5622.2	5642.1	5730.2	5688.3	5492.2	5269.6	5243.2	5313.7	5525.3	5787.5	5772.1
20°	5780.9	5796.3	5844.8	5567.1	5210.1	4919.2	4868.5	4950.0	5236.5	5692.8	5862.5
22.5°	5933.0	5941.8	5915.4	5408.4	4906.0	4573.2	4511.4	4597.4	4906.0	5525.3	5939.6
25°	6113.7	6104.9	5979.3	5243.2	4628.3	4299.9	4236.0	4332.9	4654.7	5302.7	6023.3
27.5°	6323.1	6290.0	6034.4	5064.6	4414.5	4097.1	4053.0	4156.6	4456.3	5097.7	6089.5
30°	6501.6	6437.7	6043.2	4906.0	4304.3	4011.2	3984.7	4081.7	4359.4	4958.8	6173.2
32.5°	6700.0	6611.8	6093.9	4864.1	4366.0	4218.3	4253.6	4260.2	4385.8	4919.2	6298.8
35°	6984.3	6869.7	6232.7	4985.3	5000.7	5249.8	5377.6	5205.7	4784.7	5007.3	6536.9
37.5°	7414.0	7268.6	6514.8	5509.8	6312.1	6869.7	7178.2	6785.9	5996.9	5340.1	6896.1
40°	7936.4	7751.2	6876.3	6479.6	7537.4	8430.0	8978.8	8403.6	7244.3	6171.0	7400.8
42.5°	8665.9	8471.9	7577.1	7431.7	8672.5	10001.4	10717.7	9860.4	8344.1	7244.3	8209.6
45°	9937.5	9750.2	8862.0	8386.0	10001.4	11936.5	12941.5	11749.2	9461.5	8322.0	9721.5
47.5°	12286.9	12066.5	10770.6	9443.8	11517.7	14449.0	15855.1	14118.4	10622.9	9556.2	12260.5
50°	15107.9	14896.4	13166.3	10695.7	13192.7	17135.6	19090.5	16901.9	11960.7	11057.1	15295.3
52.5°	18502.0	18462.3	16584.6	12278.1	14936.0	20000.7	22680.7	19985.2	13426.3	13078.1	18733.4
55°	21561.1	21949.0	20926.3	14691.4	17188.5	23599.7	26372.2	23348.4	15414.3	16419.3	22760.0
57.5°	23209.6	24252.1	25823.5	19615.0	20463.5	27901.8	30927.8	27454.4	18830.4	21982.0	26493.5
60°	22120.9	23302.2	26149.6	23322.0	23712.1	31348.7	34687.7	30905.7	22184.8	25843.3	26281.9
62.5°	20309.2	21369.3	23901.6	21157.7	24214.6	32106.9	34775.8	31507.4	23518.2	23884.0	23740.7
65°	18160.4	19229.3	21911.5	18468.9	22616.7	30306.3	32210.5	29737.6	21122.5	21578.7	21631.6
67.5°	15306.3	16293.7	19024.3	16421.5	20615.6	27663.7	28272.0	27216.3	19451.9	20179.2	19418.8
70°	11436.2	12326.6	14737.7	13344.8	17378.0	24221.2	23729.7	23886.2	17576.4	18299.2	16220.9
72.5°	7815.1	8485.1	10552.4	10486.3	13307.3	19390.2	18704.8	20188.0	14680.4	15639.1	12366.3
75°	5465.7	5988.1	7627.8	8284.6	10058.7	14371.8	13320.6	15110.2	11464.9	12833.5	9022.9
77.5°	3354.4	3700.4	4817.8	6137.9	6470.7	9836.1	8273.6	11370.1	8051.0	9360.1	6018.9
80°	1677.2	1844.7	2340.6	3859.1	4291.1	5796.3	4568.7	6600.8	5448.1	5796.3	3330.1
82.5°	506.9	559.8	685.4	1465.6	2223.8	3336.8	2699.8	3834.8	2975.3	2717.4	1311.3
85°	134.4	152.1	189.5	434.2	780.2	1196.7	912.4	1857.9	1425.9	1002.8	493.7
87.5°	11.0	11.0	8.8	8.8	4.4	0.0	0.0	132.2	266.7	152.1	86.0
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: P641016

CATALOG NUMBER: GWS-SA5F-722-U-SLR-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5
2.5°	4207.3	4198.5	4108.1	4042.0	3964.9	3889.9	3812.8	3744.5	3667.3	3590.2	3568.2
5°	4546.7	4485.0	4293.3	4132.4	3973.7	3834.8	3713.6	3588.0	3486.6	3387.4	3350.0
7.5°	4846.4	4738.5	4460.8	4216.1	3995.7	3823.8	3645.3	3462.4	3319.1	3178.1	3142.8
10°	5117.5	4974.3	4623.8	4315.3	4070.7	3874.5	3665.1	3420.5	3213.3	3041.4	2995.1
12.5°	5318.1	5161.6	4764.9	4410.1	4132.4	3912.0	3704.8	3488.8	3270.6	3048.0	2997.3
15°	5476.8	5313.7	4881.7	4482.8	4134.6	3850.3	3649.7	3574.8	3506.5	3288.3	3195.7
17.5°	5604.6	5432.7	4983.1	4526.9	4075.1	3662.9	3488.8	3599.0	3773.1	3636.5	3462.4
20°	5721.4	5547.3	5060.2	4557.7	3942.8	3405.1	3308.1	3541.7	3804.0	3799.6	3643.1
22.5°	5849.2	5679.5	5172.6	4575.4	3757.7	3142.8	3200.1	3458.0	3671.7	3735.7	3638.7
25°	6012.3	5862.5	5329.1	4615.0	3548.3	2962.1	3120.8	3350.0	3528.5	3543.9	3486.6
27.5°	6201.9	6089.5	5562.7	4707.6	3345.6	2869.5	3028.2	3197.9	3361.0	3367.6	3299.3
30°	6409.0	6334.1	5778.7	4784.7	3193.5	2840.9	2909.2	3045.8	3149.4	3167.0	3107.5
32.5°	6673.5	6607.4	5970.4	4734.0	3103.1	2834.3	2799.0	2869.5	2955.5	2955.5	2909.2
35°	7037.2	6944.6	6173.2	4540.1	2992.9	2807.8	2682.2	2702.0	2739.5	2746.1	2719.7
37.5°	7552.9	7400.8	6378.2	4156.6	2812.2	2713.0	2547.7	2523.5	2536.7	2554.4	2547.7
40°	8192.0	7943.0	6677.9	3696.0	2596.2	2530.1	2408.9	2362.6	2351.6	2386.9	2400.1
42.5°	8996.4	8615.2	6999.7	3266.2	2400.1	2320.7	2245.8	2206.1	2188.5	2248.0	2283.3
45°	10281.3	9653.2	7308.2	2840.9	2289.9	2142.2	2091.5	2062.9	2071.7	2142.2	2186.3
47.5°	12500.7	11237.8	7601.4	2572.0	2281.1	2014.4	1952.7	1959.3	1983.5	2058.5	2111.4
50°	15308.5	13360.2	7797.5	2459.6	2307.5	1937.3	1855.7	1891.0	1928.4	2001.2	2062.9
52.5°	18167.0	15337.2	7563.9	2397.9	2305.3	1939.5	1765.3	1871.1	1888.8	1961.5	2027.6
55°	20132.9	15557.6	6534.7	2303.1	2270.0	2027.6	1694.8	1862.3	1873.3	1939.5	1999.0
57.5°	20882.2	14803.8	4983.1	2329.6	2164.3	2095.9	1664.0	1800.6	1880.0	1937.3	1999.0
60°	19976.4	13382.3	3028.2	2397.9	1994.6	2091.5	1683.8	1688.2	1824.9	1921.8	1983.5
62.5°	18268.4	11557.4	2126.8	2203.9	1871.1	1974.7	1730.1	1556.0	1727.9	1844.7	1899.8
65°	16311.3	9410.8	1622.1	1897.6	1811.6	1794.0	1745.5	1439.2	1595.6	1710.3	1758.7
67.5°	14272.7	7314.8	1318.0	1414.9	1637.5	1622.1	1595.6	1335.6	1439.2	1520.7	1575.8
70°	11705.1	5117.5	1113.0	1062.3	1403.9	1454.6	1395.1	1205.6	1238.6	1322.4	1366.4
72.5°	8562.3	3189.1	914.6	877.2	1128.4	1271.7	1240.8	1062.3	1077.7	1157.1	1192.3
75°	6157.8	1824.9	733.9	722.9	861.7	1088.7	1027.0	914.6	932.3	991.8	1016.0
77.5°	3914.2	1016.0	566.4	581.8	617.1	813.3	877.2	782.4	782.4	817.7	837.5
80°	2095.9	581.8	414.3	421.0	432.0	621.5	692.0	606.1	606.1	581.8	606.1
82.5°	855.1	335.0	284.3	264.5	288.7	425.4	484.9	385.7	403.3	363.6	372.5
85°	282.1	167.5	141.1	138.8	136.6	187.3	233.6	191.7	229.2	145.5	152.1
87.5°	37.5	30.9	17.6	13.2	15.4	6.6	13.2	15.4	15.4	11.0	11.0
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°	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5
2.5°	3552.7	3535.1	3471.2	3486.6	3475.6	3458.0	3475.6	3442.5	3469.0	3477.8	3532.9
5°	3321.3	3279.4	3217.7	3186.9	3180.3	3162.6	3164.8	3149.4	3153.8	3191.3	3253.0
7.5°	3114.2	3074.5	3026.0	3004.0	2984.1	2964.3	2962.1	2959.9	2977.5	3010.6	3070.1
10°	2964.3	2942.2	2922.4	2931.2	2922.4	2913.6	2898.2	2898.2	2926.8	2986.3	3059.1
12.5°	2964.3	2959.9	2964.3	2990.7	2988.5	2990.7	2970.9	2981.9	3061.3	3162.6	3266.2
15°	3123.0	3087.7	3087.7	3100.9	3096.5	3096.5	3096.5	3142.8	3323.5	3480.0	3590.2
17.5°	3316.9	3213.3	3169.3	3162.6	3160.4	3160.4	3169.3	3268.4	3550.5	3715.8	3779.7
20°	3451.4	3255.2	3182.5	3153.8	3156.0	3160.4	3186.9	3323.5	3634.3	3718.0	3702.6
22.5°	3475.6	3222.1	3134.0	3092.1	3098.7	3103.1	3142.8	3288.3	3519.7	3532.9	3502.0
25°	3363.2	3129.6	3034.8	3001.8	3010.6	3008.4	3043.6	3149.4	3314.7	3310.3	3292.7
27.5°	3195.7	2981.9	2911.4	2889.4	2904.8	2887.1	2898.2	2979.7	3107.5	3103.1	3096.5
30°	3023.8	2838.7	2774.7	2763.7	2783.6	2757.1	2759.3	2827.6	2915.8	2911.4	2909.2
32.5°	2851.9	2695.4	2638.1	2638.1	2657.9	2629.3	2633.7	2693.2	2752.7	2735.1	2735.1
35°	2688.8	2578.6	2532.3	2523.5	2538.9	2519.1	2527.9	2583.0	2605.0	2580.8	2565.4
37.5°	2545.5	2497.1	2450.8	2419.9	2422.1	2424.3	2450.8	2492.6	2479.4	2444.2	2424.3
40°	2413.3	2413.3	2369.2	2311.9	2305.3	2320.7	2364.8	2411.1	2373.6	2334.0	2309.7
42.5°	2318.5	2338.4	2296.5	2239.2	2226.0	2252.4	2300.9	2334.0	2289.9	2245.8	2212.7
45°	2230.4	2278.9	2250.2	2186.3	2168.7	2199.5	2261.2	2274.5	2215.0	2173.1	2148.8
47.5°	2168.7	2234.8	2215.0	2153.2	2126.8	2170.9	2234.8	2232.6	2157.6	2113.6	2093.7
50°	2124.6	2208.3	2206.1	2153.2	2124.6	2179.7	2237.0	2208.3	2126.8	2080.5	2060.7
52.5°	2089.3	2206.1	2221.6	2190.7	2170.9	2219.4	2254.6	2199.5	2104.8	2056.3	2040.8
55°	2073.9	2215.0	2226.0	2197.3	2179.7	2223.8	2254.6	2217.2	2104.8	2060.7	2047.5
57.5°	2078.3	2203.9	2206.1	2166.5	2135.6	2190.7	2239.2	2228.2	2129.0	2078.3	2062.9
60°	2051.9	2144.4	2148.8	2087.1	2051.9	2118.0	2203.9	2197.3	2118.0	2065.1	2036.4
62.5°	1963.7	2045.2	2047.5	1990.1	1939.5	2034.2	2129.0	2126.8	2054.1	2001.2	1968.1
65°	1816.0	1902.0	1924.0	1868.9	1829.3	1930.6	2029.8	2025.4	1952.7	1904.2	1871.1
67.5°	1633.1	1725.7	1767.6	1730.1	1714.7	1807.2	1899.8	1897.6	1838.1	1791.8	1763.1
70°	1410.5	1487.7	1558.2	1558.2	1547.2	1652.9	1752.1	1743.3	1688.2	1652.9	1630.9
72.5°	1225.4	1284.9	1306.9	1329.0	1362.0	1472.2	1556.0	1562.6	1522.9	1505.3	1522.9
75°	1042.5	1079.9	1099.8	1082.1	1139.4	1254.0	1364.2	1375.3	1333.4	1304.7	1311.3
77.5°	857.3	899.2	919.0	879.4	875.0	1020.4	1154.9	1179.1	1143.8	1099.8	1113.0
80°	619.3	674.4	707.5	681.0	672.2	736.1	921.2	947.7	914.6	879.4	899.2
82.5°	379.1	409.9	418.7	445.2	500.3	526.7	592.9	681.0	656.8	625.9	681.0
85°	149.9	178.5	198.4	224.8	262.3	310.8	365.9	436.4	396.7	383.5	451.8
87.5°	8.8	2.2	0.0	4.4	37.5	72.7	156.5	216.0	180.7	193.9	233.6
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: P641016  
 CATALOG NUMBER: GWS-SA5F-722-U-SLR-W

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5	3863.5
2.5°	3577.0	3634.3	3711.4	3775.3	3856.9	3934.0	4013.4	4092.7	4134.6	4152.2
5°	3323.5	3429.3	3552.7	3689.4	3848.1	4015.6	4185.3	4359.4	4469.6	4478.4
7.5°	3171.5	3323.5	3493.2	3665.1	3861.3	4092.7	4361.6	4630.5	4742.9	4773.7
10°	3219.9	3389.6	3524.1	3685.0	3901.0	4189.7	4507.0	4822.2	4952.2	4989.7
12.5°	3413.9	3446.9	3488.8	3636.5	3901.0	4273.4	4656.9	5031.6	5170.4	5205.7
15°	3574.8	3416.1	3341.2	3497.6	3848.1	4346.2	4815.6	5229.9	5397.4	5430.5
17.5°	3588.0	3314.7	3151.6	3292.7	3755.5	4396.8	4967.7	5450.3	5591.4	5622.2
20°	3453.6	3206.7	2995.1	3081.1	3629.9	4418.9	5077.9	5611.2	5750.1	5780.9
22.5°	3301.5	3118.6	2889.4	2884.9	3477.8	4443.1	5210.1	5763.3	5913.1	5933.0
25°	3158.2	2997.3	2803.4	2741.7	3301.5	4489.4	5388.6	5992.5	6107.1	6113.7
27.5°	2990.7	2867.3	2735.1	2675.6	3147.2	4577.6	5653.1	6265.8	6334.1	6323.1
30°	2838.7	2746.1	2686.6	2669.0	3050.2	4643.7	5904.3	6534.7	6539.1	6501.6
32.5°	2677.8	2642.5	2642.5	2699.8	2970.9	4628.3	6109.3	6796.9	6755.0	6700.0
35°	2534.5	2541.1	2587.4	2721.9	2838.7	4474.0	6305.4	7125.3	7063.6	6984.3
37.5°	2397.9	2448.6	2514.7	2644.7	2664.6	4244.8	6534.7	7590.3	7513.2	7414.0
40°	2281.1	2358.2	2435.3	2499.3	2479.4	3918.6	6854.2	8136.9	8051.0	7936.4
42.5°	2188.5	2263.4	2349.4	2356.0	2362.6	3579.2	7193.6	8806.9	8791.5	8665.9
45°	2129.0	2177.5	2259.0	2248.0	2356.0	3204.5	7506.6	9829.5	10032.3	9937.5
47.5°	2089.3	2126.8	2135.6	2181.9	2413.3	2869.5	7909.9	11830.7	12394.9	12286.9
50°	2067.3	2104.8	2005.6	2186.3	2422.1	2653.5	8467.5	14343.2	15251.2	15107.9
52.5°	2065.1	2056.3	1906.4	2232.6	2373.6	2521.3	8758.4	16176.9	18191.2	18502.0
55°	2069.5	1959.3	1855.7	2245.8	2276.7	2472.8	7784.3	17058.4	20904.3	21561.1
57.5°	2029.8	1853.5	1884.4	2192.9	2093.7	2602.8	5754.5	16743.3	21988.6	23209.6
60°	1954.9	1752.1	1937.3	2049.7	1906.4	2380.2	3962.7	15337.2	20864.6	22120.9
62.5°	1846.9	1681.6	1930.6	1864.5	1838.1	1948.3	2724.1	13369.0	19081.6	20309.2
65°	1725.7	1624.3	1827.1	1686.0	1701.4	1498.7	1926.2	11147.5	16952.6	18160.4
67.5°	1595.6	1589.0	1675.0	1500.9	1437.0	1187.9	1403.9	8934.7	14217.6	15306.3
70°	1448.0	1496.5	1522.9	1333.4	1165.9	932.3	1042.5	6248.1	10488.5	11436.2
72.5°	1300.3	1304.7	1342.2	1159.3	872.8	747.1	782.4	3784.1	7125.3	7815.1
75°	1150.5	1108.6	1143.8	943.3	650.2	612.7	603.9	2338.4	4921.4	5465.7
77.5°	989.6	943.3	897.0	709.7	522.3	473.8	462.8	1311.3	3019.4	3354.4
80°	804.4	742.7	670.0	520.1	381.3	339.4	337.2	639.1	1505.3	1677.2
82.5°	625.9	509.1	489.3	324.0	235.8	207.2	220.4	244.6	454.0	506.9
85°	438.6	370.3	260.1	130.0	105.8	86.0	83.7	72.7	121.2	134.4
87.5°	244.6	160.9	83.7	15.4	17.6	19.8	15.4	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)