

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: P643484

Luminaire Tested: GWS-SA6F-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-722-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

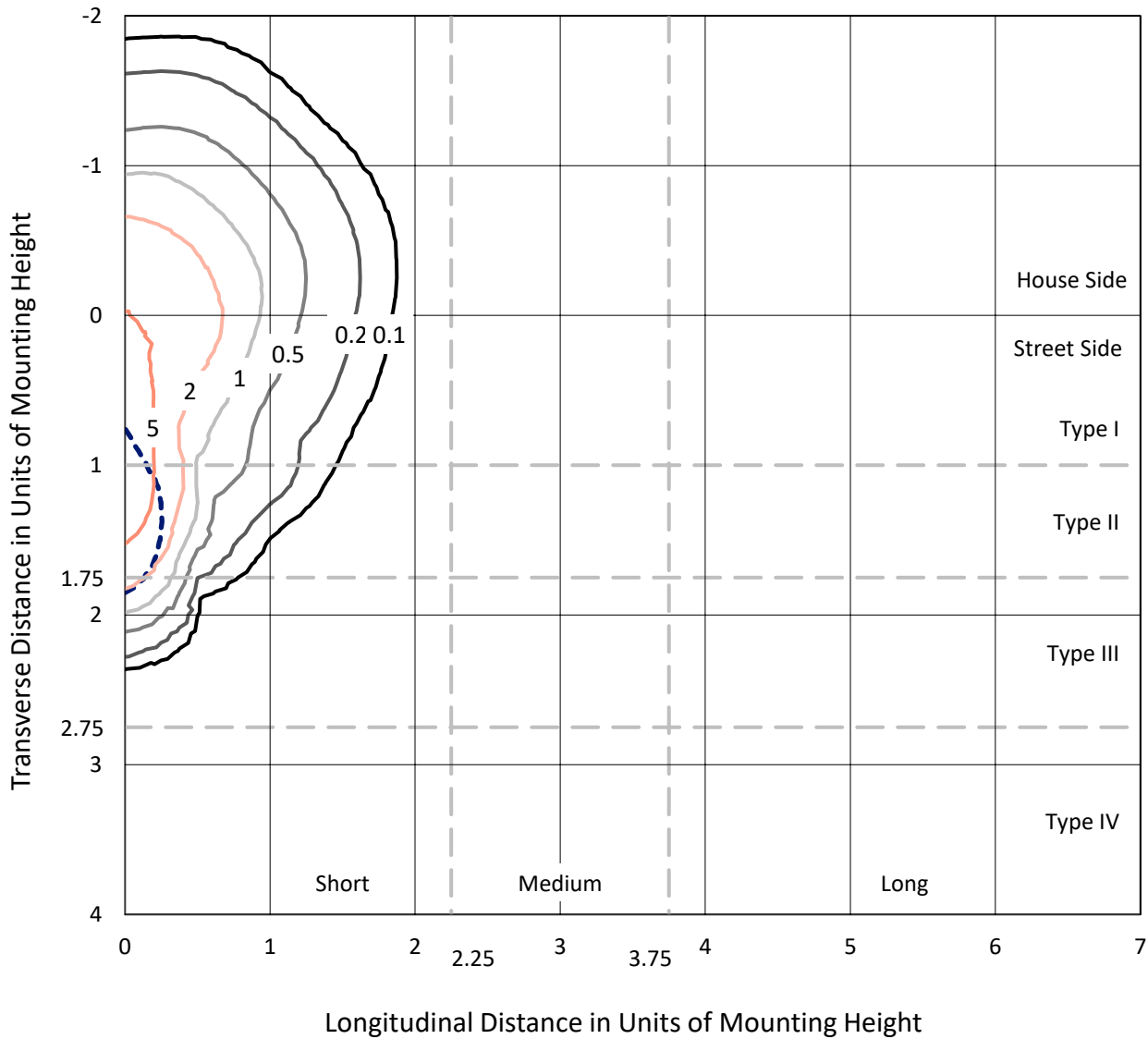
Lumens per Lamp: N/A  
Luminaire Lumens: 19658 lumens  
Efficiency: N/A  
Efficacy: 52.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

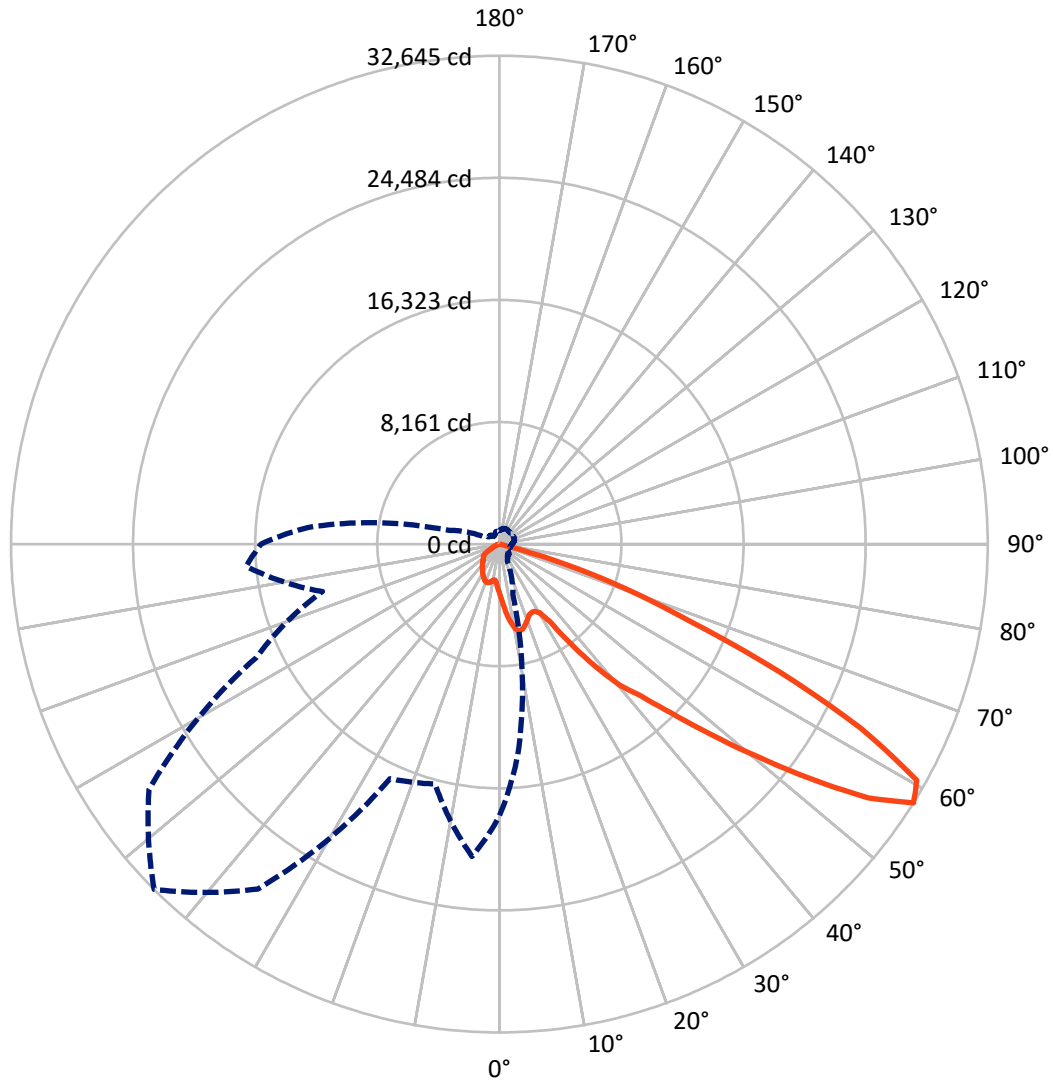
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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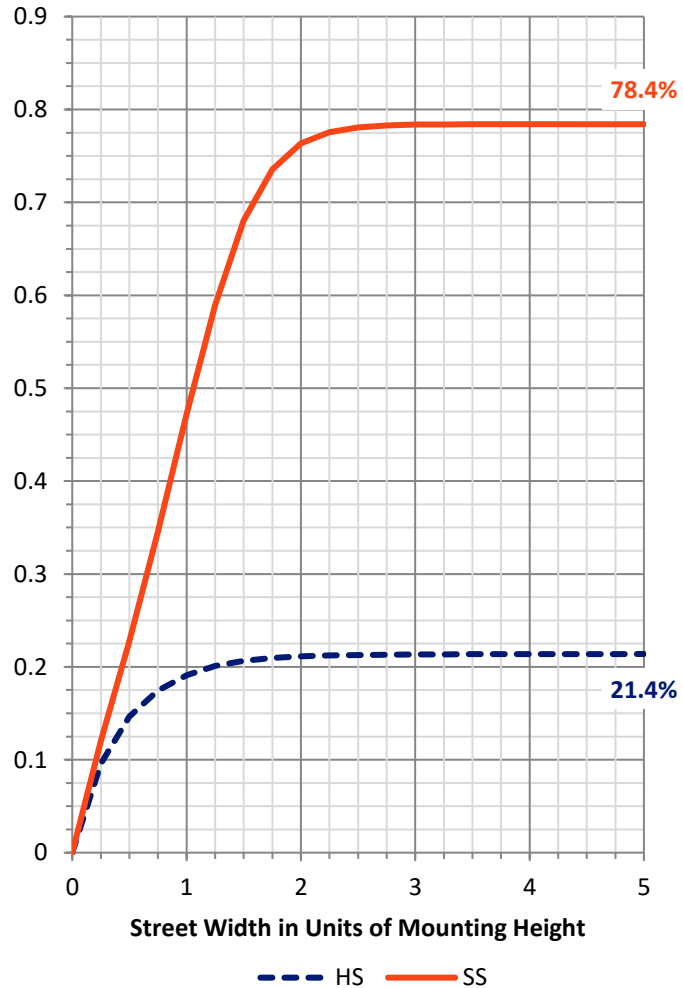
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4235.0	0.0	4235.0
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	15423.0	0.0	15423.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	19658.0	0.0	19658.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.1	1.7
10°-20°	1086.3	5.5
20°-30°	1763.0	9.0
30°-40°	2705.8	13.8
40°-50°	4321.3	22.0
50°-60°	6050.6	30.8
60°-70°	3102.3	15.8
70°-80°	298.7	1.5
80°-90°	0.0	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°	19658.0	100.0
0°-180°	19658.0	100.0

**Coefficient of Utilization**



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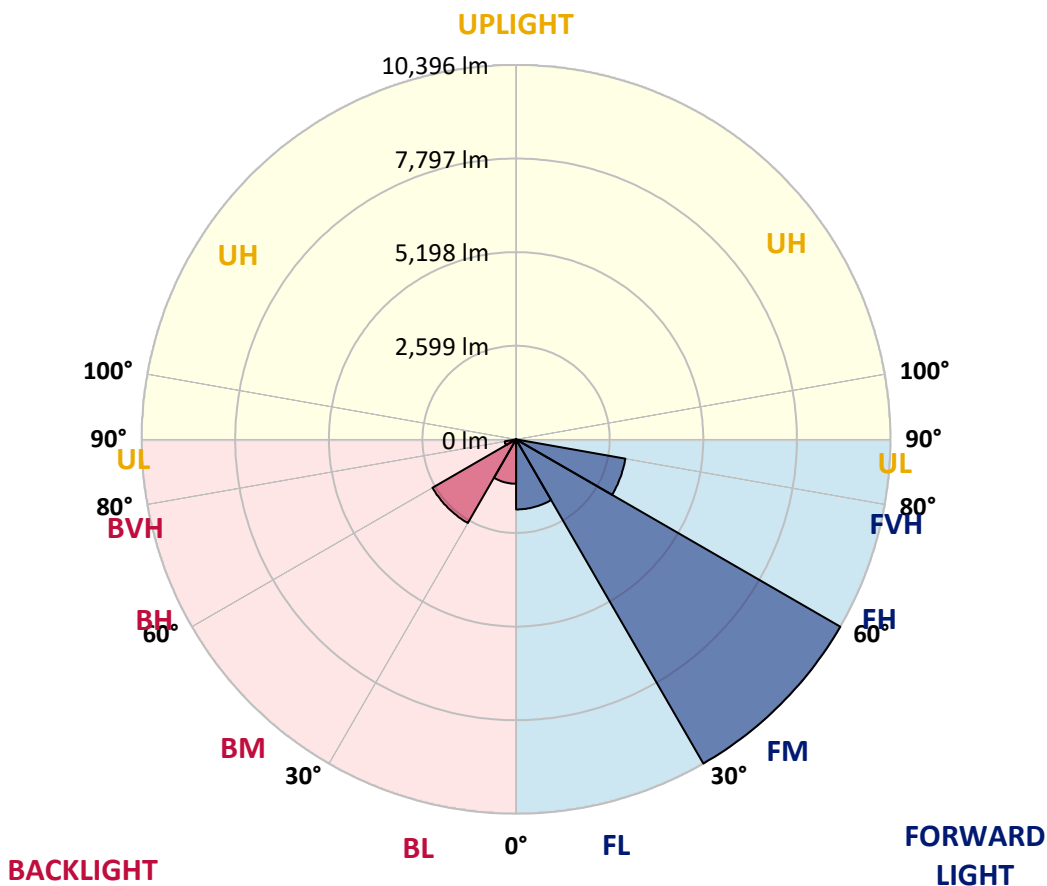
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1946.3	9.9			
FM (30°-60°)	10395.6	52.9			
FH (60°-80°)	3081.1	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1233.2	6.3	B3/2500		
BM (30°-60°)	2682.0	13.6	B3/5000		
BH (60°-80°)	319.8	1.6	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°	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2
2.5°	3710.7	3702.8	3676.6	3587.2	3532.0	3445.3	3382.2	3300.8	3211.4	3156.2	3101.0
5°	4104.9	4083.9	4013.0	3808.0	3650.3	3479.5	3342.8	3193.0	3032.7	2927.6	2830.4
7.5°	4483.4	4451.8	4357.2	4010.3	3771.2	3526.8	3332.3	3114.2	2888.2	2730.5	2609.6
10°	4853.9	4783.0	4633.2	4207.4	3884.2	3589.8	3361.2	3111.5	2846.1	2646.4	2512.4
12.5°	5158.8	5106.2	4901.2	4394.0	3978.8	3603.0	3321.8	3090.5	2911.8	2777.8	2654.3
15°	5421.6	5363.7	5169.3	4562.2	4060.3	3550.4	3156.2	2953.9	2982.8	3035.3	2930.2
17.5°	5663.3	5602.9	5392.7	4701.5	4091.8	3421.7	2925.0	2827.7	2988.0	3185.1	3145.7
20°	5913.0	5844.7	5587.1	4814.5	4081.3	3219.3	2691.1	2720.0	2946.0	3172.0	3193.0
22.5°	6204.7	6133.7	5834.2	4959.0	4073.4	2977.5	2488.7	2625.4	2867.1	3059.0	3095.8
25°	6591.0	6506.9	6178.4	5171.9	4094.4	2756.8	2344.2	2533.4	2733.1	2906.6	2927.6
27.5°	7100.9	6993.1	6575.3	5434.7	4139.1	2583.3	2281.1	2407.2	2562.3	2717.3	2735.7
30°	7765.7	7629.1	7029.9	5663.3	4118.1	2462.4	2239.1	2281.1	2373.1	2499.2	2501.9
32.5°	8543.6	8357.0	7539.7	5860.4	3936.7	2373.1	2181.2	2152.3	2173.4	2270.6	2289.0
35°	9458.2	9216.4	8102.1	6047.0	3605.6	2199.6	2076.1	1978.9	1971.0	2018.3	2063.0
37.5°	10506.7	10217.7	8811.7	6286.2	3214.0	2018.3	1921.1	1823.8	1781.8	1805.4	1873.8
40°	11473.8	11153.2	9552.8	6575.3	2814.6	1855.4	1739.7	1639.9	1589.9	1597.8	1681.9
42.5°	12609.1	12278.0	10459.4	6953.7	2483.5	1745.0	1550.5	1448.0	1382.3	1419.1	1516.4
45°	14333.1	13957.3	11781.3	7282.2	2220.7	1718.7	1385.0	1240.4	1208.9	1272.0	1387.6
47.5°	16687.8	16227.9	13597.3	7481.9	1997.3	1742.4	1269.3	1072.2	1080.1	1151.1	1266.7
50°	19024.1	18527.4	15697.0	7219.1	1813.3	1695.1	1211.5	940.8	990.8	1053.8	1158.9
52.5°	20629.8	19983.3	16719.3	6459.6	1645.1	1516.4	1206.3	817.3	911.9	932.9	1022.3
55°	20692.9	19896.6	16196.4	5093.1	1416.5	1279.8	1151.1	714.8	825.2	833.1	909.3
57.5°	18138.4	17418.4	14154.4	3497.9	1258.8	938.2	917.2	625.5	678.0	743.7	791.0
60°	13799.6	13187.3	10585.6	1603.1	956.6	596.6	628.1	538.7	507.2	604.4	651.7
62.5°	8451.6	8060.1	6349.2	709.6	609.7	318.0	381.1	428.4	381.1	417.9	457.3
65°	3356.0	3182.5	2409.9	302.2	249.7	160.3	173.4	249.7	268.1	294.3	331.1
67.5°	583.4	551.9	404.7	134.0	102.5	97.2	84.1	115.6	162.9	181.3	210.2
70°	76.2	73.6	65.7	55.2	52.6	47.3	36.8	73.6	110.4	115.6	134.0
72.5°	18.4	15.8	15.8	13.1	15.8	5.3	5.3	39.4	78.8	81.5	94.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	49.9	55.2	65.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2
2.5°	3056.4	3003.8	2985.4	2959.1	2925.0	2935.5	2888.2	2872.4	2896.1	2927.6	2919.7
5°	2777.8	2720.0	2680.6	2620.1	2609.6	2586.0	2570.2	2549.2	2575.4	2612.2	2620.1
7.5°	2557.0	2507.1	2467.7	2449.3	2436.2	2425.6	2394.1	2378.3	2378.3	2394.1	2407.2
10°	2462.4	2425.6	2417.8	2423.0	2444.0	2441.4	2412.5	2391.5	2365.2	2352.1	2367.8
12.5°	2593.8	2533.4	2522.9	2525.5	2551.8	2549.2	2517.6	2491.3	2486.1	2491.3	2541.3
15°	2817.2	2725.2	2656.9	2643.8	2656.9	2651.6	2628.0	2612.2	2620.1	2696.3	2780.4
17.5°	3016.9	2875.0	2751.5	2704.2	2701.6	2693.7	2670.0	2664.8	2704.2	2846.1	2969.6
20°	3074.8	2935.5	2759.4	2699.0	2685.8	2677.9	2651.6	2659.5	2709.5	2880.3	2985.4
22.5°	2998.5	2864.5	2680.6	2620.1	2609.6	2607.0	2580.7	2591.2	2633.3	2783.0	2869.8
25°	2854.0	2741.0	2549.2	2496.6	2496.6	2491.3	2467.7	2472.9	2499.2	2630.6	2714.7
27.5°	2677.9	2570.2	2409.9	2357.3	2365.2	2373.1	2344.2	2336.3	2357.3	2480.8	2530.8
30°	2475.6	2399.4	2273.2	2225.9	2223.3	2254.8	2215.4	2204.9	2233.8	2331.0	2341.5
32.5°	2278.5	2241.7	2152.3	2115.5	2118.2	2123.4	2102.4	2102.4	2128.7	2181.2	2178.6
35°	2086.6	2063.0	2047.2	2020.9	2018.3	2007.8	2007.8	2013.0	2042.0	2060.4	2026.2
37.5°	1902.7	1926.3	1944.7	1918.4	1897.4	1897.4	1897.4	1921.1	1947.3	1939.5	1881.6
40°	1739.7	1789.7	1847.5	1818.6	1768.6	1766.0	1776.5	1815.9	1855.4	1808.1	1755.5
42.5°	1600.5	1663.5	1745.0	1729.2	1674.0	1666.2	1674.0	1724.0	1755.5	1695.1	1637.2
45°	1463.8	1542.6	1639.9	1639.9	1579.4	1571.5	1574.2	1639.9	1658.3	1587.3	1513.7
47.5°	1348.2	1434.9	1537.4	1537.4	1487.4	1471.7	1484.8	1553.1	1566.3	1466.4	1398.1
50°	1237.8	1332.4	1445.4	1437.5	1403.4	1390.2	1413.9	1487.4	1471.7	1361.3	1290.3
52.5°	1098.5	1198.4	1353.4	1361.3	1342.9	1345.5	1374.4	1421.7	1377.1	1243.0	1182.6
55°	972.4	1074.9	1229.9	1272.0	1272.0	1269.3	1282.5	1319.3	1282.5	1122.2	1048.6
57.5°	835.7	922.4	1051.2	1061.7	1069.6	1040.7	1059.1	1109.0	1090.6	954.0	911.9
60°	685.9	759.5	833.1	841.0	806.8	746.4	780.5	838.3	851.5	749.0	701.7
62.5°	486.2	557.1	643.9	643.9	609.7	549.3	593.9	643.9	625.5	520.3	491.4
65°	362.7	428.4	494.1	523.0	494.1	452.0	486.2	523.0	494.1	407.3	365.3
67.5°	233.9	278.6	318.0	341.6	346.9	341.6	357.4	346.9	312.7	254.9	231.3
70°	141.9	165.6	186.6	207.6	223.4	231.3	239.1	215.5	181.3	149.8	141.9
72.5°	102.5	123.5	141.9	157.7	176.1	181.3	181.3	165.6	134.0	105.1	97.2
75°	71.0	89.4	105.1	115.6	131.4	136.7	136.7	123.5	99.9	76.2	68.3
77.5°	2.6	18.4	18.4	15.8	21.0	26.3	26.3	31.5	28.9	21.0	18.4
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°	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2
2.5°	2935.5	3030.1	3056.4	3153.6	3240.3	3327.0	3432.2	3495.2	3589.8	3655.5	3692.3
5°	2646.4	2725.2	2819.8	2964.4	3114.2	3279.7	3479.5	3652.9	3871.0	4031.3	4083.9
7.5°	2436.2	2538.6	2649.0	2830.4	3035.3	3256.1	3537.3	3821.1	4154.9	4373.0	4512.3
10°	2396.7	2501.9	2649.0	2827.7	3043.2	3295.5	3639.8	4007.7	4425.5	4691.0	4848.7
12.5°	2586.0	2699.0	2762.0	2843.5	3006.4	3287.6	3729.1	4196.9	4688.3	4977.4	5145.6
15°	2864.5	2964.4	2861.9	2759.4	2864.5	3203.5	3779.1	4354.6	4919.6	5253.4	5426.8
17.5°	3056.4	3064.2	2840.9	2622.7	2651.6	3051.1	3797.5	4512.3	5166.6	5516.2	5697.5
20°	3038.0	2974.9	2748.9	2507.1	2417.8	2854.0	3776.4	4651.6	5416.3	5781.6	5960.3
22.5°	2896.1	2822.5	2630.6	2394.1	2220.7	2620.1	3739.6	4777.7	5644.9	6060.2	6228.4
25°	2725.2	2646.4	2488.7	2281.1	2094.5	2394.1	3710.7	4951.1	5934.0	6422.8	6554.2
27.5°	2525.5	2457.2	2323.2	2173.4	2042.0	2223.3	3702.8	5179.8	6283.5	6864.3	6956.3
30°	2331.0	2268.0	2162.8	2076.1	2020.9	2123.4	3676.6	5424.2	6701.4	7371.5	7471.4
32.5°	2144.4	2081.4	2015.7	2002.5	2005.2	2086.6	3587.2	5666.0	7198.1	8107.4	8181.0
35°	1984.1	1910.6	1884.3	1915.8	1973.6	2023.6	3334.9	5865.7	7731.6	8908.9	8969.4
37.5°	1831.7	1758.1	1755.5	1831.7	1894.8	1926.3	3038.0	6062.8	8451.6	9723.6	9799.8
40°	1692.4	1618.8	1645.1	1737.1	1787.0	1802.8	2677.9	6362.4	9213.8	10582.9	10540.9
42.5°	1574.2	1498.0	1513.7	1632.0	1676.7	1718.7	2346.8	6612.0	9947.0	11397.6	11384.5
45°	1458.5	1400.7	1390.2	1519.0	1558.4	1726.6	2105.0	6803.9	10890.4	12435.7	12456.7
47.5°	1345.5	1300.9	1303.5	1358.7	1455.9	1766.0	1900.0	6930.0	12259.6	14080.8	13715.5
50°	1243.0	1208.9	1237.8	1174.7	1390.2	1716.1	1724.0	6903.8	13789.1	15657.6	14924.4
52.5°	1130.0	1122.2	1135.3	982.9	1285.1	1513.7	1558.4	6554.2	14506.5	16735.1	16317.2
55°	1014.4	1011.8	906.7	785.8	1074.9	1208.9	1335.0	5468.9	14482.9	17308.0	17815.2
57.5°	877.8	856.7	688.5	641.2	835.7	841.0	1216.8	3582.0	12835.1	15936.2	16987.4
60°	664.9	649.1	504.6	520.3	583.4	538.7	969.7	1784.4	9592.2	12414.7	13599.9
62.5°	459.9	438.9	375.8	402.1	375.8	307.5	593.9	883.0	5810.5	7839.3	8914.2
65°	336.4	312.7	257.5	220.8	176.1	176.1	226.0	339.0	2249.6	3332.3	4018.2
67.5°	207.6	197.1	152.4	110.4	107.7	115.6	118.3	168.2	362.7	578.2	706.9
70°	134.0	123.5	102.5	71.0	65.7	68.3	71.0	78.8	92.0	99.9	120.9
72.5°	92.0	86.7	73.6	39.4	31.5	34.2	36.8	36.8	44.7	42.0	49.9
75°	65.7	60.4	52.6	18.4	10.5	13.1	15.8	13.1	15.8	10.5	13.1
77.5°	18.4	18.4	13.1	2.6	0.0	2.6	5.3	5.3	2.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	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: P643484

CATALOG NUMBER: GWS-SA6F-722-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2
2.5°	3786.9	3847.4	3871.0	3836.9	3865.8	3818.5	3800.1	3729.1	3723.9	3710.7
5°	4296.8	4433.4	4514.9	4564.8	4507.0	4443.9	4349.3	4186.4	4136.5	4104.9
7.5°	4798.7	5011.6	5150.9	5216.6	5200.8	5072.0	4901.2	4627.9	4530.7	4483.4
10°	5235.0	5495.1	5663.3	5744.8	5710.6	5597.6	5353.2	5011.6	4882.8	4853.9
12.5°	5539.8	5779.0	5894.6	5965.6	5968.2	5923.5	5692.2	5348.0	5195.6	5158.8
15°	5731.7	5834.2	5836.8	5878.8	5952.4	6052.3	5944.5	5639.7	5476.7	5421.6
17.5°	5852.6	5739.5	5623.9	5634.4	5755.3	6020.7	6131.1	5897.2	5723.8	5663.3
20°	5939.3	5581.9	5366.4	5369.0	5492.5	5894.6	6259.9	6146.9	5968.2	5913.0
22.5°	5994.5	5442.6	5135.1	5127.2	5258.6	5744.8	6378.2	6443.9	6267.8	6204.7
25°	6107.5	5376.9	4995.8	5040.5	5156.1	5697.5	6538.5	6838.1	6675.1	6591.0
27.5°	6309.8	5442.6	4982.7	5085.2	5216.6	5836.8	6817.0	7363.7	7195.5	7100.9
30°	6659.3	5689.6	5185.0	5327.0	5484.6	6202.1	7284.8	8096.9	7855.1	7765.7
32.5°	7221.7	6202.1	5810.5	6115.4	6267.8	6801.3	7986.5	8919.4	8722.3	8543.6
35°	7997.0	7371.5	7326.9	8036.4	7999.6	7936.6	8848.5	9928.6	9631.6	9458.2
37.5°	9064.0	9253.2	9584.3	10288.6	10265.0	9784.0	9981.1	10882.5	10730.1	10506.7
40°	10396.4	10798.4	11360.8	12370.0	12054.6	11450.2	11371.3	11860.2	11736.6	11473.8
42.5°	11182.1	11875.9	12948.1	13854.8	13602.5	12546.1	12456.7	13166.3	12895.6	12609.1
45°	11547.4	12753.7	14856.1	16083.3	15318.6	13274.0	13239.9	14869.2	14716.8	14333.1
47.5°	11715.6	13639.3	17089.9	18947.9	17518.2	13912.6	13789.1	17339.5	17139.8	16687.8
50°	11902.2	14861.3	19780.9	22267.0	20175.1	14635.3	14724.7	19641.7	19557.6	19024.1
52.5°	12312.2	16154.3	23094.8	26061.9	23397.1	15768.0	16330.4	21812.4	21244.7	20629.8
55°	12927.1	17562.9	26542.8	29938.2	26684.7	17289.6	18067.5	22966.1	21373.5	20692.9
57.5°	12246.5	17915.1	28584.7	32645.0	28143.2	17294.9	16598.4	20966.2	18798.1	18138.4
60°	9718.3	16666.8	27799.0	32058.9	26900.2	15358.0	12709.0	16369.8	14241.1	13799.6
62.5°	6570.0	13978.3	24471.9	27113.1	23023.9	12080.9	8259.8	10646.0	8816.9	8451.6
65°	3600.4	10427.9	19773.1	20511.5	18020.2	8438.5	4249.5	4620.0	3518.9	3356.0
67.5°	993.4	7258.5	14548.6	13607.8	12643.3	5495.1	1098.5	825.2	588.7	583.4
70°	249.7	4801.4	8717.1	8985.1	7752.6	3518.9	210.2	99.9	78.8	76.2
72.5°	105.1	2065.6	4136.5	4754.0	3968.3	1629.4	76.2	28.9	23.7	18.4
75°	13.1	165.6	352.2	533.5	365.3	176.1	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)