

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: P643488

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643488
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19558.2 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

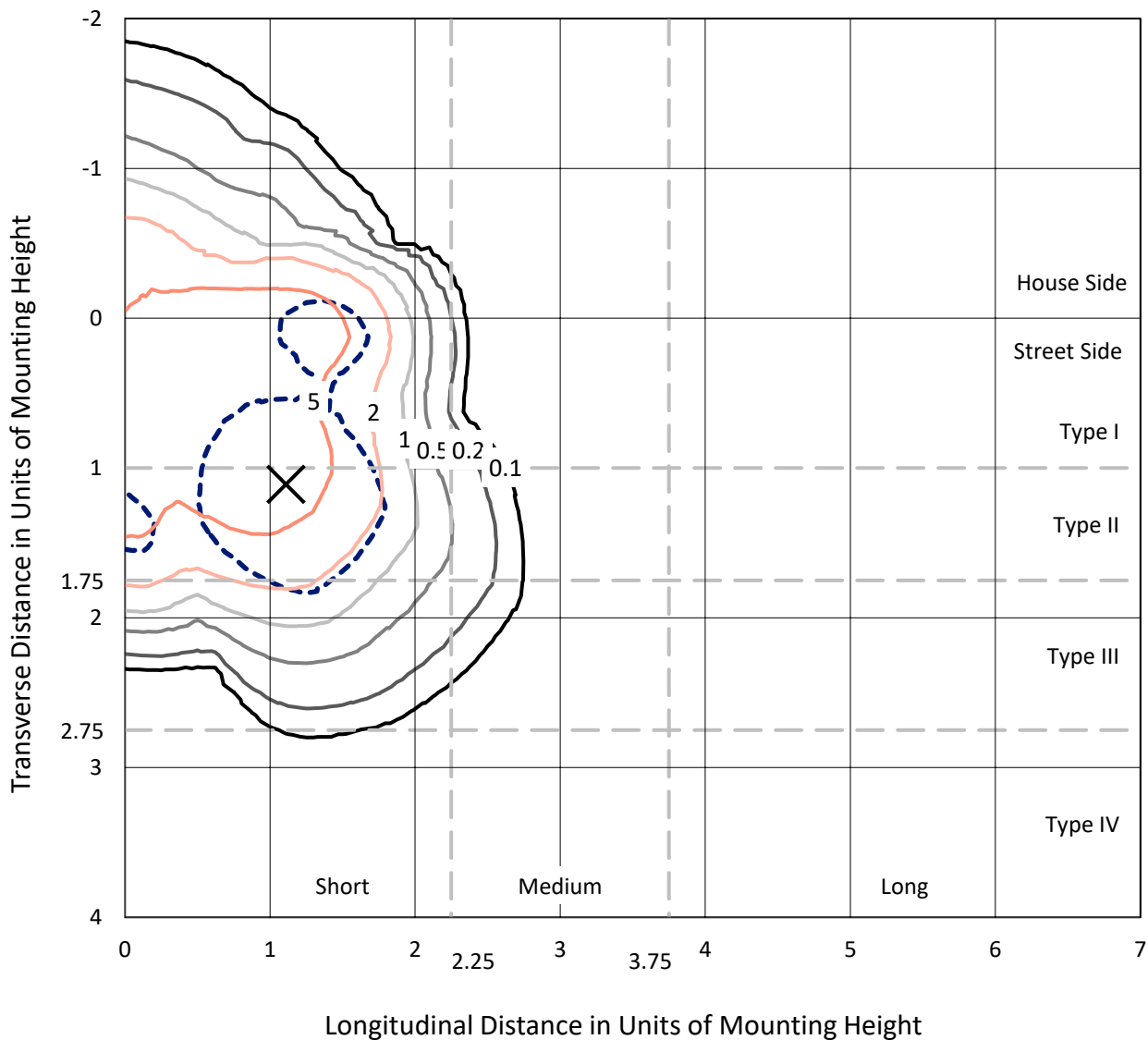
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

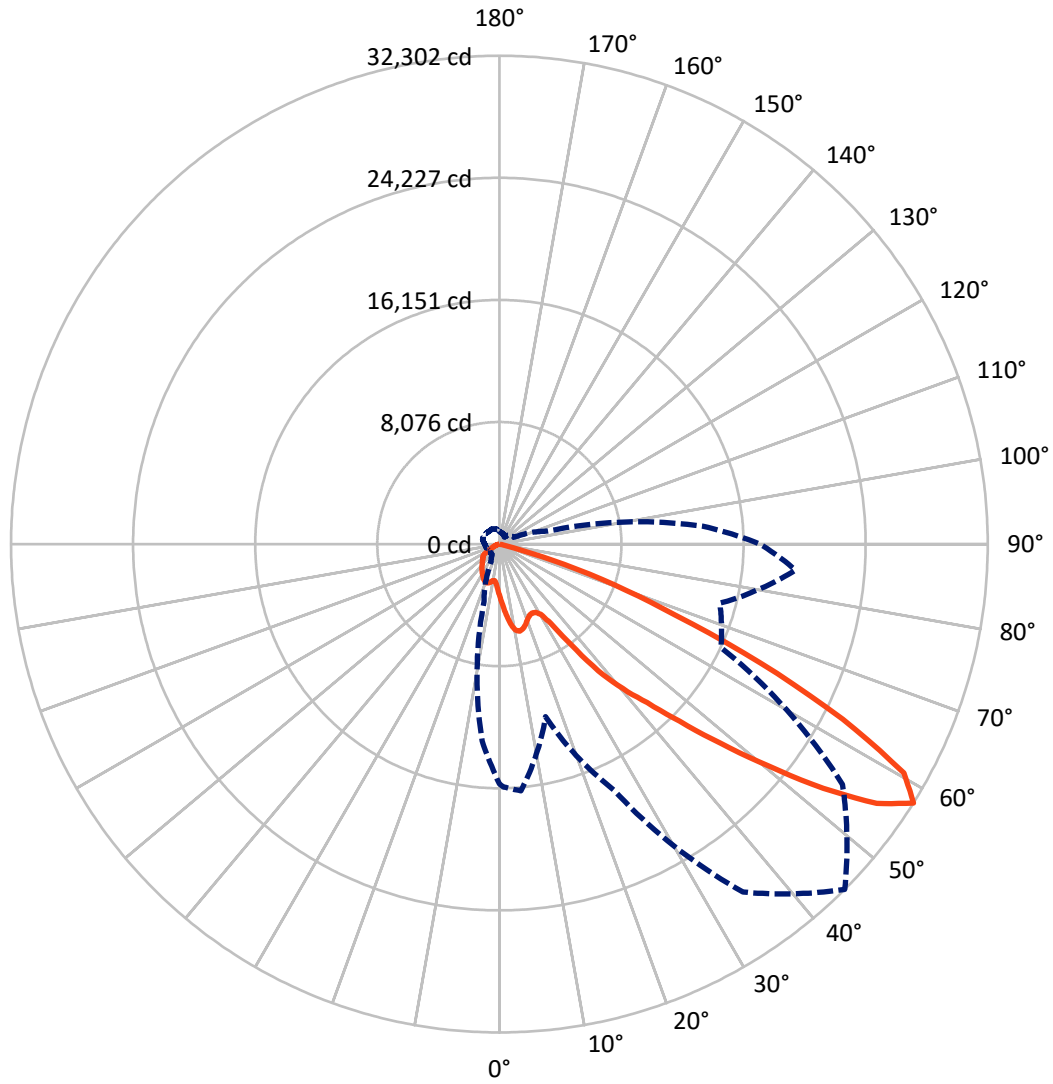
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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
House Side	Lumens	4379.6	0.0	4379.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15178.6	0.0	15178.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	19558.2	0.0	19558.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	1.7
10°-20°	1094.0	5.6
20°-30°	1777.1	9.1
30°-40°	2745.9	14.0
40°-50°	4403.0	22.5
50°-60°	6017.8	30.8
60°-70°	2914.6	14.9
70°-80°	266.9	1.4
80°-90°	0.8	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°	19558.2	100.0
0°-180°	19558.2	100.0

Coefficient of Utilization



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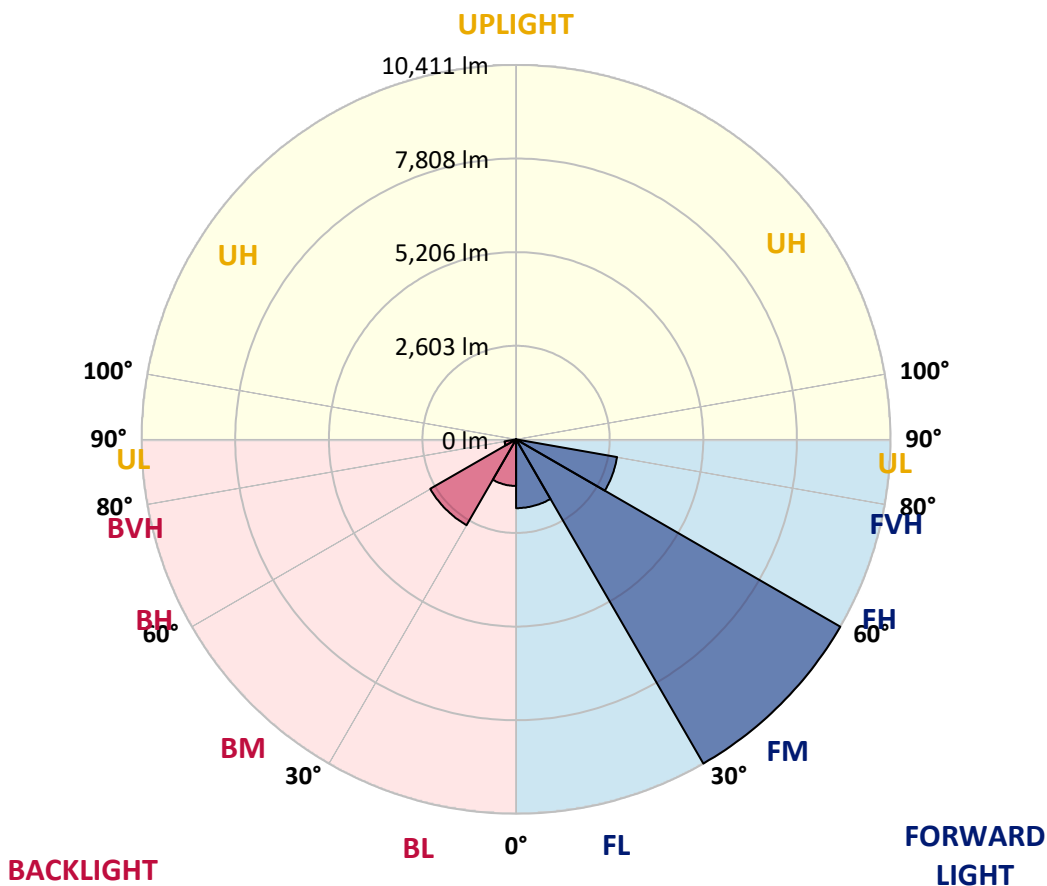
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1913.4	9.8			
FM (30°-60°)	10411.3	53.2			
FH (60°-80°)	2853.2	14.6			G2/5000
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1295.9	6.6	B3/2500		
BM (30°-60°)	2755.5	14.1	B3/5000		
BH (60°-80°)	328.3	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°	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6
2.5°	3724.0	3747.7	3787.1	3871.2	3942.2	3989.5	4010.5	4005.2	3976.3	3955.3	3913.3
5°	4123.5	4123.5	4199.7	4391.6	4538.7	4630.7	4678.0	4649.1	4591.3	4499.3	4357.4
7.5°	4473.0	4486.2	4615.0	4888.3	5111.7	5243.1	5319.3	5303.5	5201.0	5024.9	4741.1
10°	4746.4	4762.1	4933.0	5266.7	5529.5	5663.6	5776.6	5787.1	5674.1	5440.2	5114.3
12.5°	5011.8	5027.6	5206.3	5526.9	5758.2	5813.4	5913.2	5952.7	5923.8	5758.2	5419.2
15°	5298.3	5335.1	5487.5	5726.6	5823.9	5758.2	5823.9	5894.8	5992.1	5976.3	5671.5
17.5°	5579.5	5605.8	5760.8	5844.9	5737.2	5566.3	5597.9	5682.0	5902.7	6118.2	5921.1
20°	5839.7	5876.4	6005.2	5894.8	5569.0	5303.5	5306.1	5416.5	5752.9	6205.0	6176.1
22.5°	6113.0	6168.2	6260.2	5950.0	5413.9	5095.9	5109.0	5208.9	5634.7	6286.4	6465.1
25°	6470.4	6523.0	6583.4	6086.7	5364.0	4993.4	5043.3	5135.3	5634.7	6425.7	6822.6
27.5°	6954.0	6990.8	6993.4	6341.6	5450.7	5009.2	5114.3	5219.4	5802.9	6704.3	7300.9
30°	7561.1	7618.9	7542.7	6738.5	5721.4	5219.4	5374.5	5505.9	6165.5	7174.7	8005.2
32.5°	8299.6	8381.0	8278.5	7327.2	6286.4	5944.8	6226.0	6302.2	6743.7	7855.4	8804.2
35°	9166.8	9235.2	9124.8	8141.9	7605.7	7668.8	8178.7	8081.4	7905.3	8693.8	9737.1
37.5°	10118.2	10181.3	9968.4	9377.1	9555.8	9829.1	10643.8	10310.1	9742.4	9773.9	10749.0
40°	10990.7	11059.1	10725.3	10720.0	11088.0	11587.3	12570.2	12110.3	11337.7	11187.9	11697.7
42.5°	11894.8	11942.1	11639.9	11434.9	12270.6	13298.2	14339.0	13718.7	12394.2	12231.2	12885.6
45°	13185.2	13285.1	12746.3	11787.1	13335.0	15266.7	16717.4	15505.8	13114.3	12982.8	14704.3
47.5°	15082.7	15156.3	14057.7	12007.8	14325.8	17718.7	19689.8	17823.8	13747.6	13448.0	17190.4
50°	16651.7	16701.6	15264.0	12249.6	15379.7	20362.6	23077.4	20572.8	14459.8	14218.1	19511.1
52.5°	17808.1	17997.3	16848.8	12746.3	16764.7	23471.6	26827.7	23829.0	15571.5	15705.6	21434.8
55°	18047.2	18304.8	17931.6	13051.2	17984.1	26638.5	30291.6	26743.6	16680.6	16833.0	22081.4
57.5°	15860.6	16065.6	16375.7	11821.2	17955.2	28089.2	32302.1	27710.8	16176.0	15095.8	19660.9
60°	11881.7	12023.6	12586.0	9035.4	16512.4	26806.7	30735.7	26065.6	14144.5	11519.0	14980.2
62.5°	7046.0	7109.0	7821.2	5852.8	13705.6	23085.3	25490.0	22491.3	11177.3	7747.7	9174.7
65°	2704.3	2678.0	3222.1	2888.3	10078.8	18388.9	18959.2	17145.8	7668.8	3550.6	3498.0
67.5°	417.9	399.5	538.8	854.1	7269.3	12743.7	12509.8	12357.4	4804.2	827.9	722.7
70°	94.6	94.6	115.6	252.3	4441.5	7487.5	8013.1	7639.9	3074.9	176.1	94.6
72.5°	44.7	44.7	55.2	107.8	1608.4	3085.4	3595.3	3540.1	998.7	57.8	34.2
75°	15.8	18.4	18.4	23.7	97.2	160.3	367.9	262.8	63.1	0.0	0.0
77.5°	5.3	5.3	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	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°	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6
2.5°	3821.3	3802.9	3734.5	3642.6	3553.2	3474.4	3392.9	3295.6	3224.7	3143.2	3116.9
5°	4247.0	4131.4	3944.8	3750.3	3571.6	3419.2	3272.0	3114.3	2998.7	2883.0	2843.6
7.5°	4607.1	4436.2	4134.0	3842.3	3597.9	3382.4	3169.5	2954.0	2785.8	2649.1	2607.1
10°	4930.3	4733.2	4328.5	3968.4	3661.0	3411.3	3153.7	2883.0	2664.9	2502.0	2462.5
12.5°	5208.9	4980.3	4494.1	4063.1	3687.2	3400.8	3151.1	2935.6	2738.5	2551.9	2502.0
15°	5442.8	5190.5	4633.4	4126.1	3647.8	3269.4	3051.2	3017.1	3001.3	2796.3	2699.1
17.5°	5671.5	5387.6	4746.4	4155.0	3537.4	3038.1	2880.4	3035.5	3201.0	3067.0	2943.5
20°	5910.6	5587.4	4862.0	4160.3	3353.5	2777.9	2751.6	2996.0	3206.3	3164.2	3048.6
22.5°	6191.8	5837.0	5006.5	4157.7	3122.2	2557.1	2657.0	2919.8	3090.7	3088.0	2996.0
25°	6599.2	6152.4	5201.0	4173.4	2869.9	2386.3	2551.9	2791.0	2930.3	2925.1	2848.9
27.5°	7035.4	6528.2	5453.3	4212.9	2654.4	2286.5	2428.4	2615.0	2735.9	2730.6	2664.9
30°	7647.8	6961.9	5695.1	4215.5	2499.3	2233.9	2291.7	2420.5	2536.1	2523.0	2473.0
32.5°	8391.5	7450.7	5897.5	4065.7	2402.1	2184.0	2149.8	2215.5	2304.8	2286.5	2273.3
35°	9290.4	8031.5	6070.9	3737.2	2252.3	2084.1	1992.1	2005.2	2068.3	2078.8	2073.6
37.5°	10315.3	8722.7	6286.4	3303.5	2049.9	1939.5	1816.0	1805.5	1842.3	1876.5	1902.7
40°	11327.1	9500.6	6578.2	2864.6	1866.0	1755.6	1637.3	1611.0	1626.8	1687.2	1742.4
42.5°	12465.1	10402.0	6893.5	2488.8	1739.8	1553.2	1440.2	1390.3	1434.9	1532.2	1597.9
45°	14105.0	11666.2	7201.0	2189.2	1687.2	1374.5	1222.1	1216.8	1266.7	1392.9	1466.5
47.5°	16407.3	13300.8	7403.4	1955.3	1684.6	1235.2	1053.9	1085.4	1143.2	1266.7	1350.8
50°	18651.7	15348.1	7180.0	1776.6	1629.4	1143.2	927.7	990.8	1048.6	1156.4	1243.1
52.5°	20005.1	16449.3	6310.1	1608.4	1458.6	1101.2	804.2	914.6	925.1	1022.3	1114.3
55°	19863.2	15737.1	4833.1	1348.2	1206.3	1040.7	675.4	825.2	830.5	904.1	982.9
57.5°	17240.4	13511.1	3319.3	1093.3	906.7	859.4	557.2	696.4	746.4	791.1	848.9
60°	12848.8	9858.0	1479.6	888.3	575.6	580.8	475.7	525.6	601.8	654.4	704.3
62.5°	7571.6	5671.5	601.8	533.5	318.0	365.3	383.7	383.7	431.0	470.4	502.0
65°	2862.0	1984.2	244.4	268.1	165.6	170.8	226.0	278.6	315.4	349.5	391.6
67.5°	502.0	346.9	126.1	99.9	97.2	86.7	115.6	181.3	202.4	228.6	247.0
70°	84.1	71.0	52.6	49.9	44.7	47.3	76.2	128.8	141.9	149.8	157.7
72.5°	23.7	21.0	15.8	13.1	10.5	13.1	47.3	99.9	105.1	110.4	118.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	18.4	71.0	76.2	78.8	86.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	21.0	26.3	21.0
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°	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6
2.5°	3101.2	3048.6	3019.7	3003.9	3003.9	2982.9	2959.2	2951.4	2985.5	2985.5	3043.3
5°	2793.7	2751.6	2704.3	2675.4	2630.7	2638.6	2612.3	2609.7	2643.9	2659.6	2720.1
7.5°	2580.8	2528.2	2499.3	2480.9	2457.3	2446.8	2423.1	2415.2	2433.6	2459.9	2517.7
10°	2438.9	2431.0	2428.4	2441.5	2441.5	2428.4	2407.3	2394.2	2399.5	2449.4	2515.1
12.5°	2475.7	2491.4	2496.7	2517.7	2528.2	2517.7	2502.0	2507.2	2541.4	2633.4	2730.6
15°	2636.0	2622.9	2617.6	2628.1	2636.0	2625.5	2620.2	2659.6	2777.9	2909.3	3019.7
17.5°	2806.8	2722.7	2685.9	2685.9	2691.2	2685.9	2691.2	2767.4	2959.2	3090.7	3172.1
20°	2893.5	2738.5	2680.7	2667.5	2678.0	2680.7	2699.1	2785.8	2996.0	3088.0	3106.4
22.5°	2867.3	2672.8	2607.1	2596.6	2607.1	2617.6	2636.0	2709.6	2906.7	2954.0	2946.1
25°	2735.9	2544.0	2491.4	2491.4	2515.1	2512.5	2520.4	2572.9	2735.9	2764.8	2751.6
27.5°	2570.3	2388.9	2344.3	2370.6	2391.6	2386.3	2388.9	2433.6	2554.5	2562.4	2549.3
30°	2402.1	2244.4	2202.4	2233.9	2262.8	2257.5	2260.2	2304.8	2381.1	2373.2	2354.8
32.5°	2231.3	2115.6	2084.1	2102.5	2147.2	2141.9	2152.4	2199.7	2228.6	2194.5	2173.4
35°	2073.6	2013.1	1989.5	2000.0	2034.2	2042.0	2060.4	2092.0	2092.0	2049.9	2013.1
37.5°	1926.4	1918.5	1902.7	1889.6	1921.1	1944.8	1971.1	2007.9	1955.3	1894.9	1860.7
40°	1789.7	1823.9	1802.9	1768.7	1787.1	1821.3	1873.8	1902.7	1839.7	1779.2	1721.4
42.5°	1663.6	1721.4	1713.5	1671.5	1687.2	1718.8	1779.2	1802.9	1729.3	1661.0	1605.8
45°	1542.7	1624.2	1629.4	1576.9	1592.6	1624.2	1695.1	1703.0	1608.4	1534.8	1495.4
47.5°	1437.6	1526.9	1529.6	1490.1	1495.4	1540.1	1605.8	1608.4	1500.6	1432.3	1382.4
50°	1337.7	1440.2	1448.1	1413.9	1419.2	1471.7	1526.9	1516.4	1400.8	1329.8	1285.1
52.5°	1216.8	1356.1	1374.5	1358.7	1379.8	1421.8	1456.0	1419.2	1285.1	1214.2	1174.8
55°	1085.4	1266.7	1306.2	1295.7	1319.3	1353.5	1361.4	1337.7	1169.5	1098.5	1061.8
57.5°	933.0	1043.4	1111.7	1090.7	1109.1	1143.2	1166.9	1148.5	1022.3	967.1	935.6
60°	772.7	846.3	862.0	827.9	812.1	872.5	927.7	904.1	796.3	762.2	725.4
62.5°	565.0	649.1	659.7	615.0	596.6	662.3	709.6	685.9	567.7	530.9	502.0
65°	452.0	530.9	551.9	509.9	499.3	549.3	578.2	520.4	436.3	396.8	365.3
67.5°	297.0	360.1	415.2	412.6	391.6	407.4	386.3	339.0	278.6	257.6	236.5
70°	184.0	220.8	254.9	268.1	265.4	260.2	231.3	197.1	178.7	170.8	160.3
72.5°	141.9	178.7	205.0	212.9	215.5	207.6	184.0	152.4	134.0	123.5	115.6
75°	105.1	134.0	155.1	165.6	170.8	165.6	141.9	120.9	102.5	94.6	86.7
77.5°	36.8	44.7	55.2	60.4	57.8	55.2	49.9	49.9	39.4	36.8	31.5
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



REPORT NUMBER: P643488

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6	3437.6
2.5°	3109.1	3156.4	3243.1	3321.9	3406.0	3492.8	3587.4	3684.6	3729.3	3724.0
5°	2812.1	2914.6	3056.5	3211.5	3385.0	3571.6	3779.2	3992.1	4084.1	4123.5
7.5°	2625.5	2770.0	2956.6	3153.7	3382.4	3647.8	3960.6	4294.3	4428.4	4473.0
10°	2649.1	2817.3	2972.4	3164.2	3408.7	3752.9	4141.9	4538.7	4696.4	4746.4
12.5°	2841.0	2877.8	2919.8	3077.5	3385.0	3831.8	4307.5	4780.5	4961.9	5011.8
15°	3014.4	2843.6	2764.8	2909.3	3300.9	3887.0	4475.7	5040.7	5240.4	5298.3
17.5°	3022.3	2764.8	2588.7	2701.7	3164.2	3910.6	4641.2	5306.1	5524.3	5579.5
20°	2925.1	2678.0	2452.0	2454.7	2977.6	3905.4	4777.9	5545.3	5789.7	5839.7
22.5°	2783.2	2575.5	2341.6	2260.2	2777.9	3894.9	4927.7	5800.2	6065.7	6113.0
25°	2625.5	2444.1	2236.5	2113.0	2578.2	3905.4	5137.9	6134.0	6425.7	6470.4
27.5°	2454.7	2299.6	2155.0	2055.2	2410.0	3944.8	5390.2	6559.8	6906.7	6954.0
30°	2275.9	2160.3	2102.5	2042.0	2304.8	3955.3	5663.6	7056.5	7495.4	7561.1
32.5°	2099.9	2036.8	2039.4	2049.9	2205.0	3881.7	5913.2	7608.4	8194.4	8299.6
35°	1936.9	1918.5	1971.1	2023.6	2060.4	3692.5	6131.4	8260.1	9059.1	9166.8
37.5°	1797.6	1813.4	1879.1	1931.7	1902.7	3424.4	6420.5	9074.9	10026.2	10118.2
40°	1663.6	1703.0	1779.2	1802.9	1781.9	3111.7	6767.4	9860.7	10864.6	10990.7
42.5°	1540.1	1569.0	1676.7	1682.0	1747.7	2793.7	7101.1	10706.9	11829.1	11894.8
45°	1440.2	1434.9	1545.3	1579.5	1792.4	2441.5	7427.0	11834.4	13090.6	13185.2
47.5°	1343.0	1337.7	1364.0	1519.0	1810.8	2115.6	7750.3	13484.8	14919.8	15082.7
50°	1251.0	1258.9	1177.4	1490.1	1710.9	1866.0	7897.5	15011.7	16583.4	16651.7
52.5°	1169.5	1140.6	998.7	1395.5	1498.0	1629.4	7479.6	15705.6	17613.6	17808.1
55°	1053.9	893.6	822.6	1132.7	1182.6	1421.8	6126.1	15303.5	17702.9	18047.2
57.5°	901.4	701.7	699.1	835.7	835.7	1319.3	3923.8	13074.8	15256.2	15860.6
60°	693.8	544.0	578.2	580.8	536.1	961.9	2202.4	9471.7	11279.8	11881.7
62.5°	494.1	415.2	436.3	346.9	307.5	480.9	1056.5	5453.3	6961.9	7046.0
65°	331.1	281.2	228.6	191.9	189.2	205.0	436.3	1971.1	2396.8	2704.3
67.5°	218.1	170.8	120.9	120.9	136.7	136.7	165.6	325.9	457.3	417.9
70°	141.9	118.3	76.2	73.6	89.4	89.4	84.1	89.4	94.6	94.6
72.5°	105.1	89.4	44.7	39.4	49.9	52.6	47.3	44.7	44.7	44.7
75°	78.8	63.1	26.3	18.4	23.7	31.5	26.3	18.4	18.4	15.8
77.5°	31.5	23.7	10.5	7.9	13.1	18.4	15.8	7.9	5.3	5.3
80°	2.6	5.3	5.3	5.3	7.9	10.5	13.1	5.3	2.6	2.6
82.5°	0.0	2.6	2.6	2.6	5.3	7.9	10.5	5.3	2.6	2.6
85°	0.0	0.0	0.0	0.0	5.3	7.9	5.3	2.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.6	7.9	5.3	2.6	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)