

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: P641009

Luminaire Tested: GWS-SA5F-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641009
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-SA5F-722-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16485.7 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

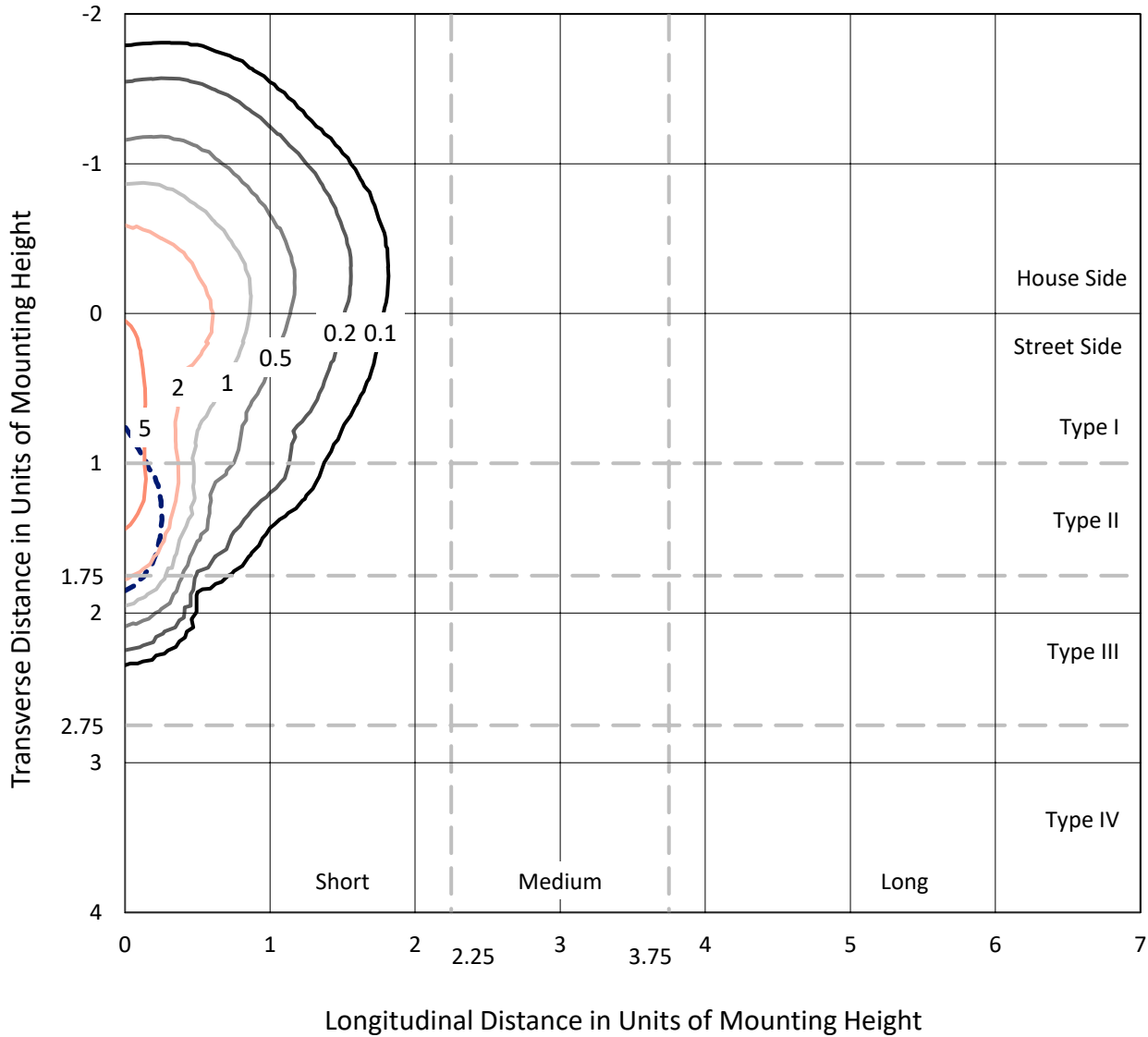
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641009
 CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

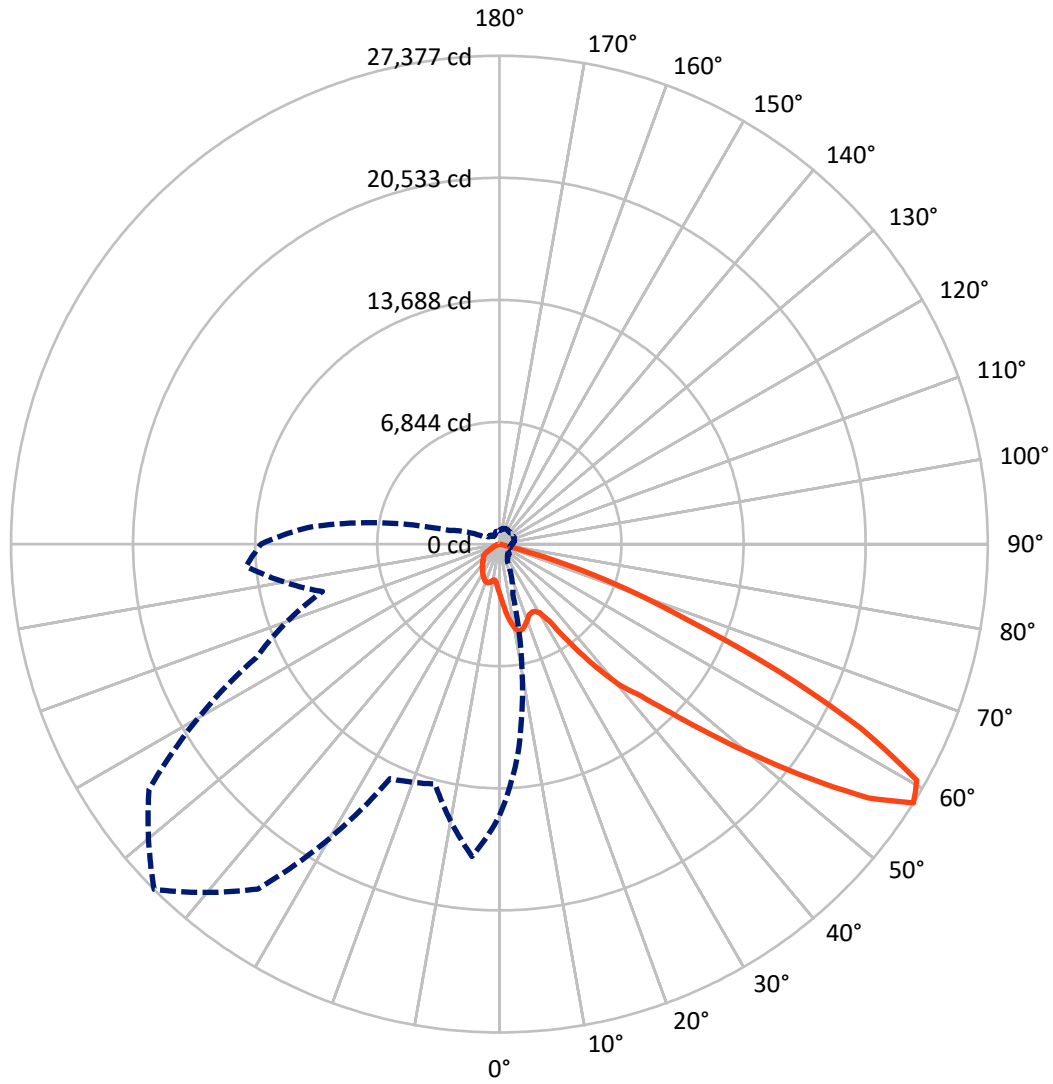
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

REPORT NUMBER: P641009
CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641009

CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-GRSBK

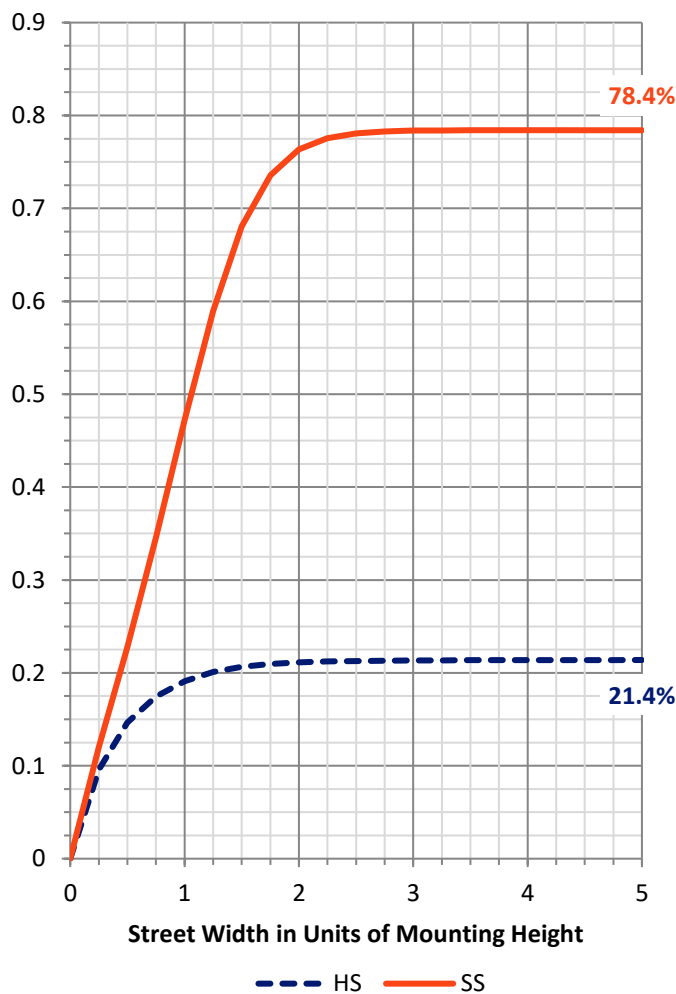
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3551.6	0.0	3551.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12934.1	0.0	12934.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	16485.7	0.0	16485.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.9	1.7
10°-20°	911.0	5.5
20°-30°	1478.5	9.0
30°-40°	2269.1	13.8
40°-50°	3623.9	22.0
50°-60°	5074.2	30.8
60°-70°	2601.7	15.8
70°-80°	250.5	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°	16485.7	100.0
0°-180°	16485.7	100.0

Coefficient of Utilization



REPORT NUMBER: P641009

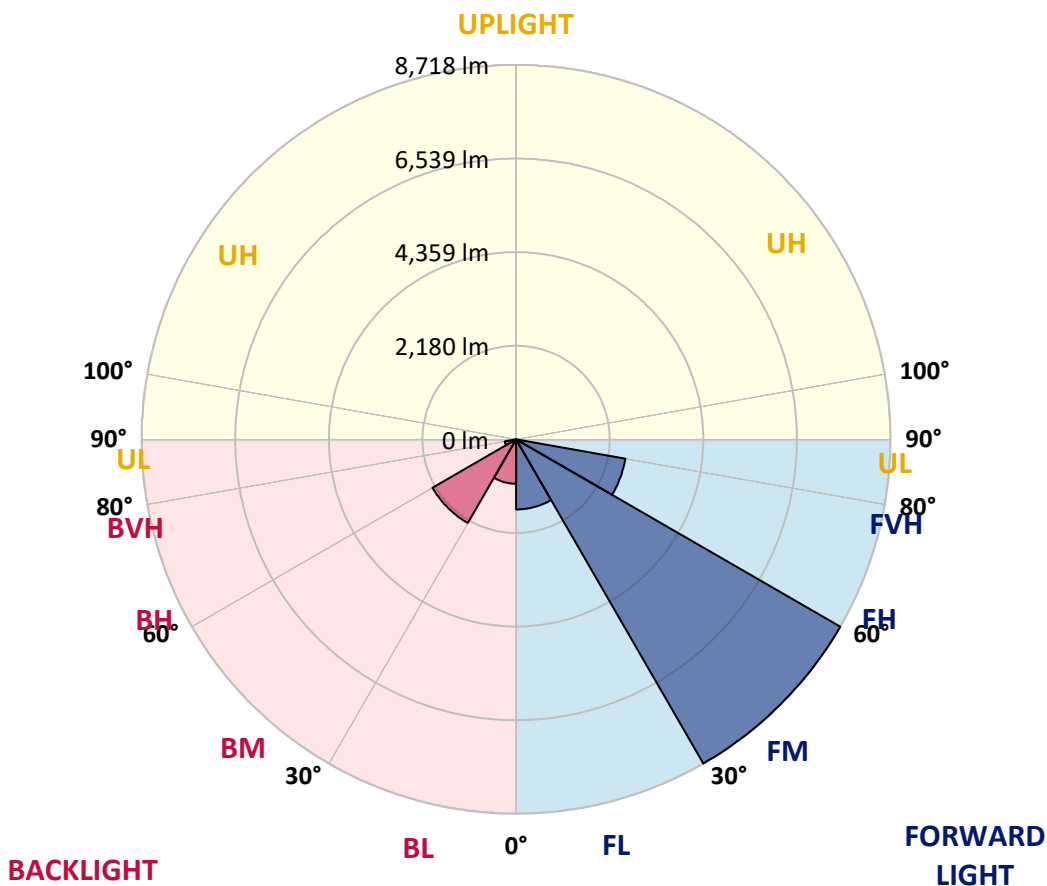
CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.2	9.9			
FM (30°-60°)	8718.0	52.9			
FH (60°-80°)	2583.9	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1034.2	6.3	B3/2500		
BM (30°-60°)	2249.2	13.6	B2/2500		
BH (60°-80°)	268.2	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





REPORT NUMBER: P641009

CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	3111.9	3105.3	3083.3	3008.3	2962.0	2889.3	2836.4	2768.1	2693.2	2646.9	2600.6
5°	3442.5	3424.9	3365.4	3193.5	3061.2	2918.0	2803.4	2677.7	2543.3	2455.2	2373.6
7.5°	3759.9	3733.4	3654.1	3363.2	3162.6	2957.6	2794.6	2611.6	2422.1	2289.9	2188.5
10°	4070.6	4011.1	3885.5	3528.5	3257.4	3010.5	2818.8	2609.4	2386.8	2219.3	2106.9
12.5°	4326.3	4282.2	4110.3	3684.9	3336.7	3021.6	2785.7	2591.8	2441.9	2329.5	2225.9
15°	4546.7	4498.2	4335.1	3826.0	3405.0	2977.5	2646.9	2477.2	2501.4	2545.5	2457.4
17.5°	4749.4	4698.7	4522.4	3942.8	3431.5	2869.5	2452.9	2371.4	2505.8	2671.1	2638.1
20°	4958.8	4901.5	4685.5	4037.6	3422.7	2699.8	2256.8	2281.0	2470.6	2660.1	2677.7
22.5°	5203.4	5143.9	4892.7	4158.8	3416.1	2497.0	2087.1	2201.7	2404.5	2565.3	2596.2
25°	5527.4	5456.9	5181.4	4337.3	3433.7	2311.9	1965.9	2124.6	2292.1	2437.5	2455.2
27.5°	5955.0	5864.6	5514.2	4557.7	3471.2	2166.4	1913.0	2018.8	2148.8	2278.8	2294.3
30°	6512.5	6397.9	5895.4	4749.4	3453.5	2065.1	1877.7	1913.0	1990.1	2095.9	2098.1
32.5°	7164.9	7008.4	6323.0	4914.7	3301.5	1990.1	1829.2	1805.0	1822.6	1904.2	1919.6
35°	7931.9	7729.1	6794.6	5071.2	3023.8	1844.7	1741.1	1659.5	1652.9	1692.6	1730.1
37.5°	8811.2	8568.8	7389.7	5271.7	2695.4	1692.6	1611.1	1529.5	1494.2	1514.1	1571.4
40°	9622.3	9353.4	8011.2	5514.2	2360.4	1556.0	1459.0	1375.2	1333.4	1340.0	1410.5
42.5°	10574.3	10296.6	8771.5	5831.5	2082.7	1463.4	1300.3	1214.4	1159.3	1190.1	1271.7
45°	12020.1	11704.9	9880.1	6107.0	1862.3	1441.4	1161.5	1040.2	1013.8	1066.7	1163.7
47.5°	13994.8	13609.1	11403.0	6274.5	1675.0	1461.2	1064.5	899.2	905.8	965.3	1062.3
50°	15954.1	15537.5	13163.9	6054.1	1520.7	1421.5	1016.0	789.0	830.9	883.8	971.9
52.5°	17300.7	16758.5	14021.3	5417.2	1379.6	1271.7	1011.6	685.4	764.8	782.4	857.3
55°	17353.6	16685.8	13582.7	4271.2	1187.9	1073.3	965.3	599.5	692.0	698.6	762.6
57.5°	15211.4	14607.5	11870.2	2933.4	1055.7	786.8	769.2	524.5	568.6	623.7	663.4
60°	11572.7	11059.2	8877.3	1344.4	802.2	500.3	526.7	451.8	425.4	506.9	546.6
62.5°	7087.8	6759.4	5324.6	595.1	511.3	266.7	319.6	359.2	319.6	350.4	383.5
65°	2814.4	2668.9	2021.0	253.4	209.4	134.4	145.5	209.4	224.8	246.8	277.7
67.5°	489.3	462.8	339.4	112.4	86.0	81.5	70.5	97.0	136.6	152.1	176.3
70°	63.9	61.7	55.1	46.3	44.1	39.7	30.9	61.7	92.6	97.0	112.4
72.5°	15.4	13.2	13.2	11.0	13.2	4.4	4.4	33.1	66.1	68.3	79.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	41.9	46.3	55.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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: P641009

CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	2563.1	2519.1	2503.6	2481.6	2452.9	2461.8	2422.1	2408.9	2428.7	2455.2	2448.5
5°	2329.5	2281.0	2248.0	2197.3	2188.5	2168.6	2155.4	2137.8	2159.8	2190.7	2197.3
7.5°	2144.4	2102.5	2069.5	2054.0	2043.0	2034.2	2007.8	1994.5	1994.5	2007.8	2018.8
10°	2065.1	2034.2	2027.6	2032.0	2049.6	2047.4	2023.2	2005.6	1983.5	1972.5	1985.7
12.5°	2175.3	2124.6	2115.7	2118.0	2140.0	2137.8	2111.3	2089.3	2084.9	2089.3	2131.2
15°	2362.6	2285.5	2228.1	2217.1	2228.1	2223.7	2203.9	2190.7	2197.3	2261.2	2331.7
17.5°	2530.1	2411.1	2307.5	2267.8	2265.6	2259.0	2239.2	2234.8	2267.8	2386.8	2490.4
20°	2578.6	2461.8	2314.1	2263.4	2252.4	2245.8	2223.7	2230.4	2272.2	2415.5	2503.6
22.5°	2514.7	2402.3	2248.0	2197.3	2188.5	2186.3	2164.2	2173.1	2208.3	2333.9	2406.7
25°	2393.4	2298.7	2137.8	2093.7	2093.7	2089.3	2069.5	2073.9	2095.9	2206.1	2276.6
27.5°	2245.8	2155.4	2021.0	1976.9	1983.5	1990.1	1965.9	1959.3	1976.9	2080.5	2122.4
30°	2076.1	2012.2	1906.4	1866.7	1864.5	1891.0	1857.9	1849.1	1873.3	1954.9	1963.7
32.5°	1910.8	1879.9	1805.0	1774.1	1776.3	1780.8	1763.1	1763.1	1785.2	1829.2	1827.0
35°	1749.9	1730.1	1716.8	1694.8	1692.6	1683.8	1683.8	1688.2	1712.4	1727.9	1699.2
37.5°	1595.6	1615.5	1630.9	1608.9	1591.2	1591.2	1591.2	1611.1	1633.1	1626.5	1578.0
40°	1459.0	1500.9	1549.3	1525.1	1483.2	1481.0	1489.8	1522.9	1556.0	1516.3	1472.2
42.5°	1342.2	1395.1	1463.4	1450.2	1403.9	1397.3	1403.9	1445.8	1472.2	1421.5	1373.0
45°	1227.6	1293.7	1375.2	1375.2	1324.5	1317.9	1320.1	1375.2	1390.7	1331.2	1269.4
47.5°	1130.6	1203.3	1289.3	1289.3	1247.4	1234.2	1245.2	1302.5	1313.5	1229.8	1172.5
50°	1038.0	1117.4	1212.1	1205.5	1176.9	1165.9	1185.7	1247.4	1234.2	1141.6	1082.1
52.5°	921.2	1005.0	1135.0	1141.6	1126.2	1128.4	1152.6	1192.3	1154.8	1042.4	991.8
55°	815.4	901.4	1031.4	1066.7	1066.7	1064.5	1075.5	1106.4	1075.5	941.1	879.4
57.5°	700.8	773.6	881.6	890.4	897.0	872.7	888.2	930.0	914.6	800.0	764.8
60°	575.2	636.9	698.6	705.2	676.6	625.9	654.6	703.0	714.1	628.1	588.4
62.5°	407.7	467.2	540.0	540.0	511.3	460.6	498.1	540.0	524.5	436.4	412.1
65°	304.1	359.2	414.3	438.6	414.3	379.1	407.7	438.6	414.3	341.6	306.3
67.5°	196.1	233.6	266.7	286.5	290.9	286.5	299.7	290.9	262.3	213.8	193.9
70°	119.0	138.8	156.5	174.1	187.3	193.9	200.6	180.7	152.1	125.6	119.0
72.5°	86.0	103.6	119.0	132.2	147.7	152.1	152.1	138.8	112.4	88.2	81.5
75°	59.5	74.9	88.2	97.0	110.2	114.6	114.6	103.6	83.7	63.9	57.3
77.5°	2.2	15.4	15.4	13.2	17.6	22.0	22.0	26.4	24.2	17.6	15.4
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



REPORT NUMBER: P641009

CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	2461.8	2541.1	2563.1	2644.7	2717.4	2790.1	2878.3	2931.2	3010.5	3065.6	3096.5
5°	2219.3	2285.5	2364.8	2486.0	2611.6	2750.5	2918.0	3063.4	3246.4	3380.8	3424.9
7.5°	2043.0	2129.0	2221.5	2373.6	2545.5	2730.6	2966.5	3204.5	3484.4	3667.3	3784.1
10°	2010.0	2098.1	2221.5	2371.4	2552.1	2763.7	3052.4	3361.0	3711.4	3934.0	4066.2
12.5°	2168.6	2263.4	2316.3	2384.6	2521.3	2757.1	3127.3	3519.6	3931.8	4174.2	4315.2
15°	2402.3	2486.0	2400.1	2314.1	2402.3	2686.6	3169.2	3651.9	4125.7	4405.6	4551.1
17.5°	2563.1	2569.8	2382.4	2199.5	2223.7	2558.7	3184.6	3784.1	4332.9	4626.0	4778.1
20°	2547.7	2494.8	2305.3	2102.5	2027.6	2393.4	3167.0	3900.9	4542.3	4848.6	4998.5
22.5°	2428.7	2367.0	2206.1	2007.8	1862.3	2197.3	3136.2	4006.7	4734.0	5082.2	5223.3
25°	2285.5	2219.3	2087.1	1913.0	1756.5	2007.8	3111.9	4152.2	4976.4	5386.3	5496.5
27.5°	2118.0	2060.7	1948.3	1822.6	1712.4	1864.5	3105.3	4343.9	5269.5	5756.6	5833.7
30°	1954.9	1902.0	1813.8	1741.1	1694.8	1780.8	3083.3	4548.9	5620.0	6182.0	6265.7
32.5°	1798.4	1745.5	1690.4	1679.4	1681.6	1749.9	3008.3	4751.6	6036.5	6799.1	6860.8
35°	1663.9	1602.2	1580.2	1606.6	1655.1	1697.0	2796.8	4919.1	6483.9	7471.2	7521.9
37.5°	1536.1	1474.4	1472.2	1536.1	1589.0	1615.5	2547.7	5084.4	7087.8	8154.5	8218.4
40°	1419.3	1357.6	1379.6	1456.8	1498.7	1511.9	2245.8	5335.7	7726.9	8875.1	8839.9
42.5°	1320.1	1256.2	1269.4	1368.6	1406.1	1441.4	1968.1	5545.0	8341.8	9558.3	9547.3
45°	1223.2	1174.7	1165.9	1273.9	1306.9	1448.0	1765.3	5705.9	9133.0	10428.9	10446.5
47.5°	1128.4	1090.9	1093.1	1139.4	1221.0	1481.0	1593.4	5811.7	10281.2	11808.5	11502.2
50°	1042.4	1013.8	1038.0	985.1	1165.9	1439.2	1445.8	5789.7	11563.9	13130.9	12516.0
52.5°	947.7	941.1	952.1	824.3	1077.7	1269.4	1306.9	5496.5	12165.6	14034.5	13684.1
55°	850.7	848.5	760.3	659.0	901.4	1013.8	1119.6	4586.3	12145.7	14514.9	14940.3
57.5°	736.1	718.5	577.4	537.8	700.8	705.2	1020.4	3003.9	10763.9	13364.5	14246.0
60°	557.6	544.4	423.1	436.4	489.3	451.8	813.2	1496.5	8044.3	10411.3	11405.2
62.5°	385.7	368.1	315.2	337.2	315.2	257.9	498.1	740.5	4872.8	6574.3	7475.6
65°	282.1	262.3	216.0	185.1	147.7	147.7	189.5	284.3	1886.5	2794.6	3369.8
67.5°	174.1	165.3	127.8	92.6	90.4	97.0	99.2	141.0	304.1	484.9	592.9
70°	112.4	103.6	86.0	59.5	55.1	57.3	59.5	66.1	77.1	83.7	101.4
72.5°	77.1	72.7	61.7	33.1	26.4	28.7	30.9	30.9	37.5	35.3	41.9
75°	55.1	50.7	44.1	15.4	8.8	11.0	13.2	11.0	13.2	8.8	11.0
77.5°	15.4	15.4	11.0	2.2	0.0	2.2	4.4	4.4	2.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	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: P641009

CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	3175.8	3226.5	3246.4	3217.7	3241.9	3202.3	3186.8	3127.3	3122.9	3111.9
5°	3603.4	3718.0	3786.3	3828.2	3779.7	3726.8	3647.5	3510.8	3468.9	3442.5
7.5°	4024.3	4202.8	4319.7	4374.8	4361.5	4253.5	4110.3	3881.1	3799.5	3759.9
10°	4390.2	4608.4	4749.4	4817.7	4789.1	4694.3	4489.4	4202.8	4094.9	4070.6
12.5°	4645.8	4846.4	4943.4	5002.9	5005.1	4967.6	4773.7	4484.9	4357.1	4326.3
15°	4806.7	4892.7	4894.9	4930.1	4991.8	5075.6	4985.2	4729.6	4592.9	4546.7
17.5°	4908.1	4813.3	4716.4	4725.2	4826.6	5049.1	5141.7	4945.6	4800.1	4749.4
20°	4980.8	4681.1	4500.4	4502.6	4606.2	4943.4	5249.7	5154.9	5005.1	4958.8
22.5°	5027.1	4564.3	4306.4	4299.8	4410.0	4817.7	5348.9	5404.0	5256.3	5203.4
25°	5121.9	4509.2	4189.6	4227.1	4324.1	4778.1	5483.3	5734.6	5597.9	5527.4
27.5°	5291.6	4564.3	4178.6	4264.6	4374.8	4894.9	5716.9	6175.3	6034.3	5955.0
30°	5584.7	4771.5	4348.3	4467.3	4599.6	5201.2	6109.2	6790.2	6587.5	6512.5
32.5°	6056.3	5201.2	4872.8	5128.5	5256.3	5703.7	6697.7	7480.1	7314.8	7164.9
35°	6706.5	6182.0	6144.5	6739.5	6708.7	6655.8	7420.6	8326.4	8077.3	7931.9
37.5°	7601.3	7760.0	8037.6	8628.3	8608.5	8205.1	8370.4	9126.4	8998.5	8811.2
40°	8718.7	9055.9	9527.5	10373.8	10109.3	9602.4	9536.3	9946.2	9842.6	9622.3
42.5°	9377.6	9959.5	10858.6	11619.0	11407.4	10521.4	10446.5	11041.6	10814.6	10574.3
45°	9684.0	10695.6	12458.7	13487.9	12846.6	11131.9	11103.3	12469.7	12341.9	12020.1
47.5°	9825.0	11438.3	14332.0	15890.2	14691.2	11667.5	11563.9	14541.4	14373.9	13994.8
50°	9981.5	12463.1	16588.8	18673.7	16919.4	12273.6	12348.5	16472.0	16401.5	15954.1
52.5°	10325.3	13547.4	19367.9	21856.1	19621.4	13223.4	13695.1	18292.4	17816.4	17300.7
55°	10841.0	14728.7	22259.5	25106.9	22378.5	14499.5	15151.9	19259.9	17924.4	17353.6
57.5°	10270.2	15024.0	23971.9	27376.9	23601.6	14503.9	13919.9	17582.8	15764.5	15211.4
60°	8150.0	13977.2	23312.9	26885.5	22559.2	12879.6	10658.1	13728.1	11943.0	11572.7
62.5°	5509.8	11722.6	20522.8	22737.7	19308.4	10131.4	6926.9	8928.0	7394.1	7087.8
65°	3019.4	8745.1	16582.2	17201.5	15112.2	7076.7	3563.7	3874.5	2951.0	2814.4
67.5°	833.1	6087.2	12200.8	11411.8	10603.0	4608.4	921.2	692.0	493.7	489.3
70°	209.4	4026.5	7310.4	7535.2	6501.5	2951.0	176.3	83.7	66.1	63.9
72.5°	88.2	1732.3	3468.9	3986.9	3327.9	1366.4	63.9	24.2	19.8	15.4
75°	11.0	138.8	295.3	447.4	306.3	147.7	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)