

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: P638534

Luminaire Tested: GWS-SA4F-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638534  
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-SA4F-722-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

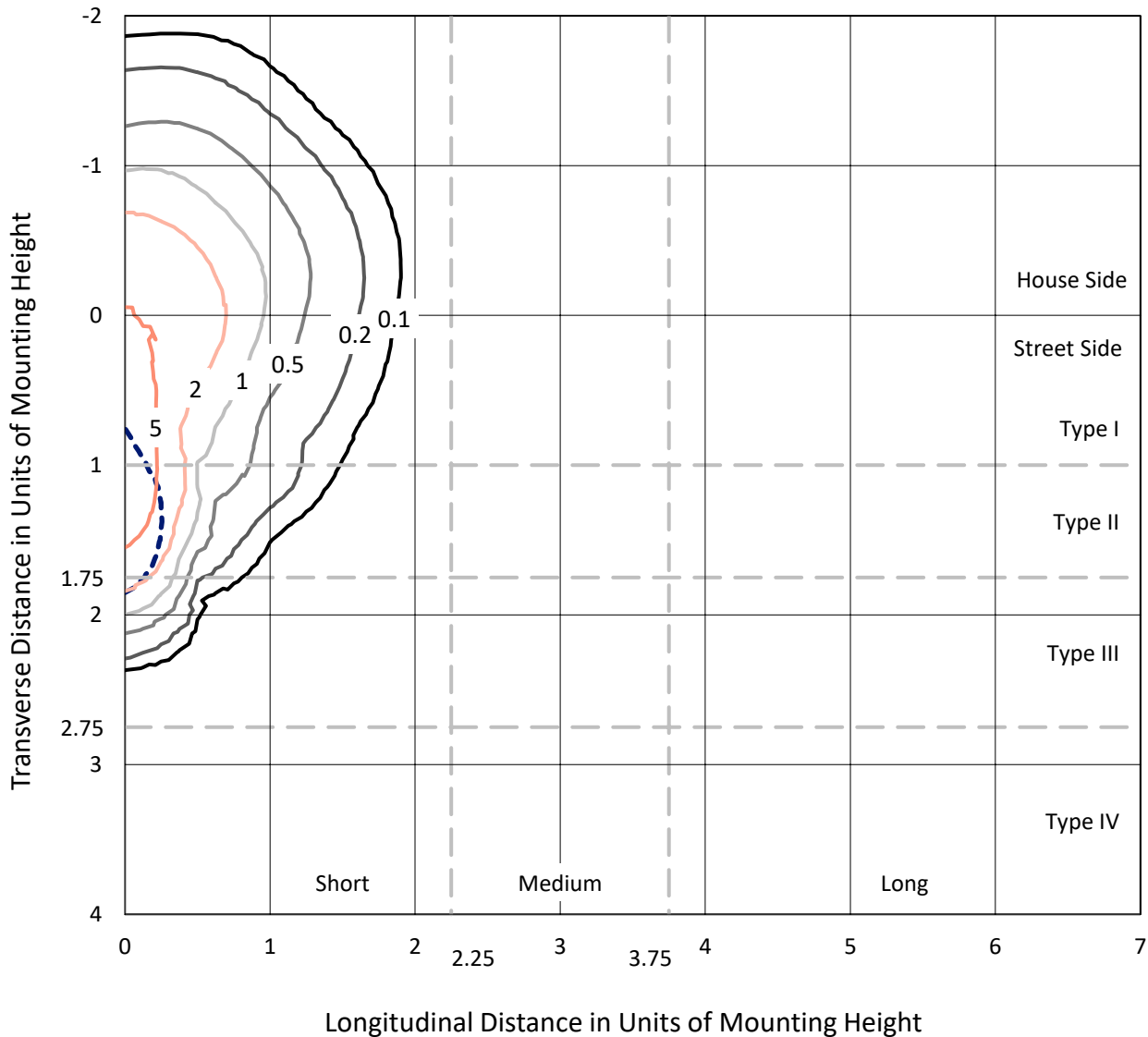
Lumens per Lamp: N/A  
Luminaire Lumens: 13438.9 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P638534  
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

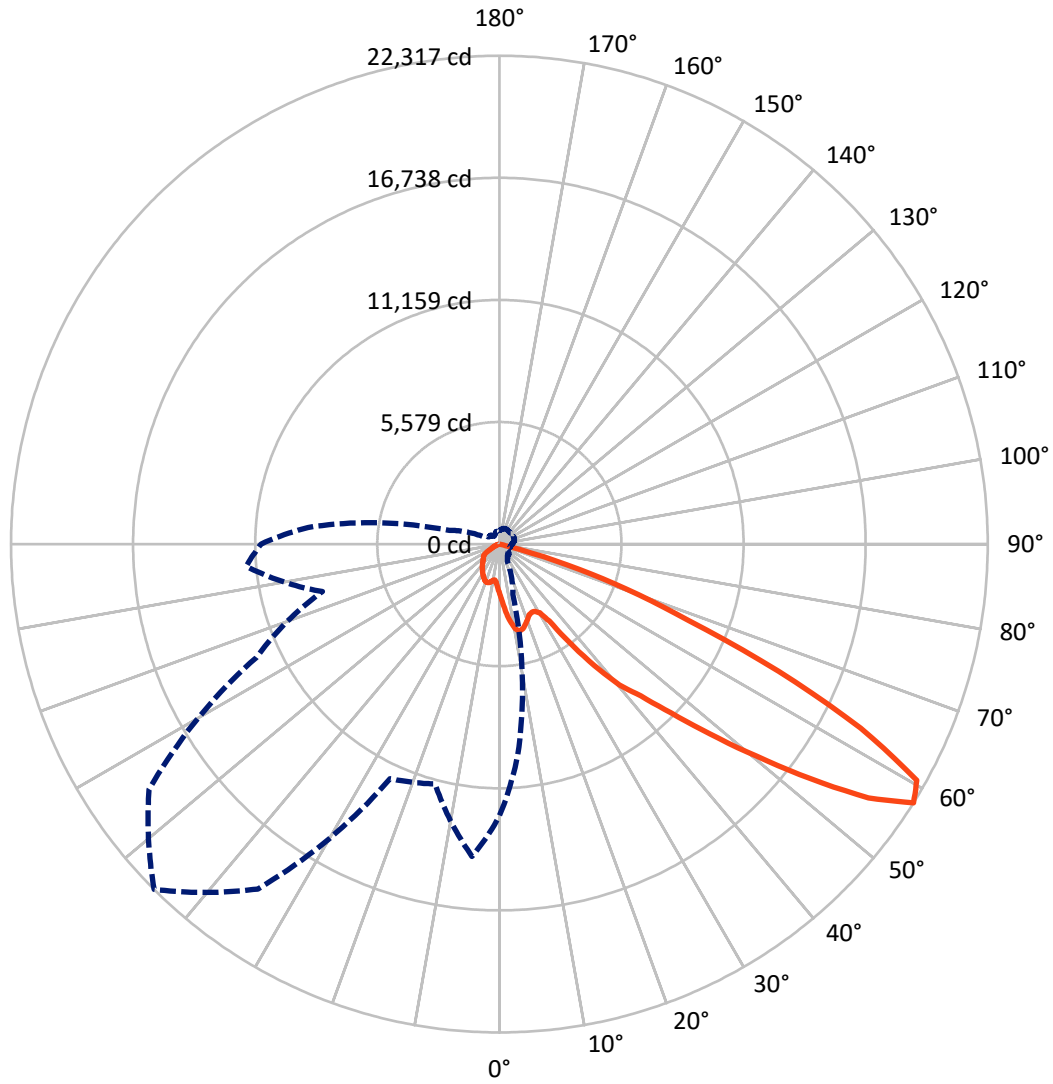
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - N/A

REPORT NUMBER: P638534  
CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638534  
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSBK

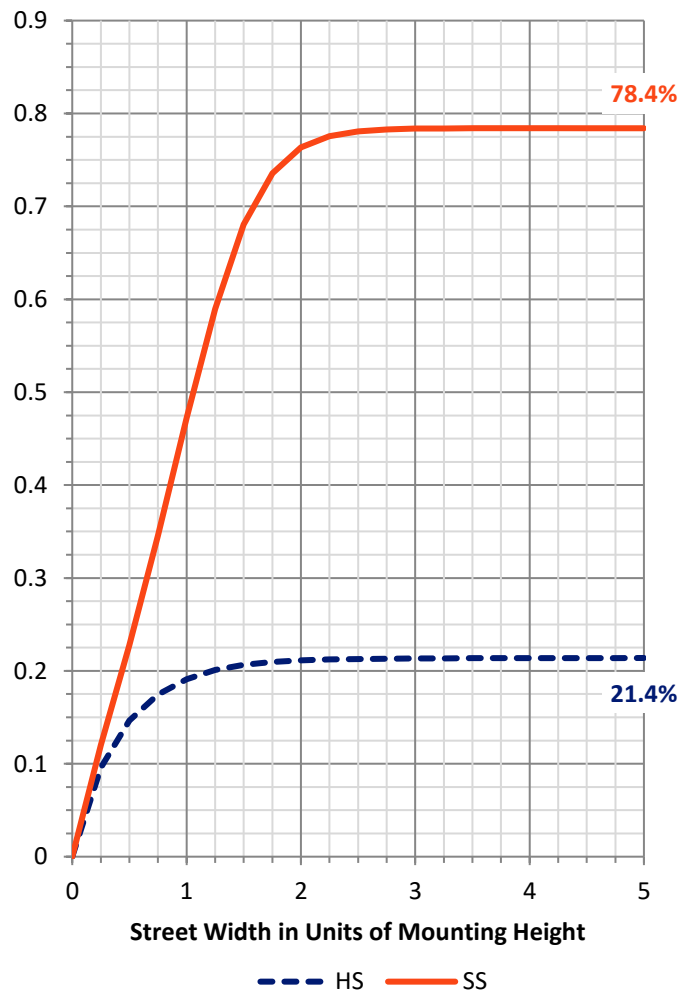
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2895.2	0.0	2895.2
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	10543.7	0.0	10543.7
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	13438.9	0.0	13438.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.7	1.7
10°-20°	742.6	5.5
20°-30°	1205.2	9.0
30°-40°	1849.7	13.8
40°-50°	2954.2	22.0
50°-60°	4136.4	30.8
60°-70°	2120.8	15.8
70°-80°	204.2	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°	13438.9	100.0
0°-180°	13438.9	100.0

**Coefficient of Utilization**



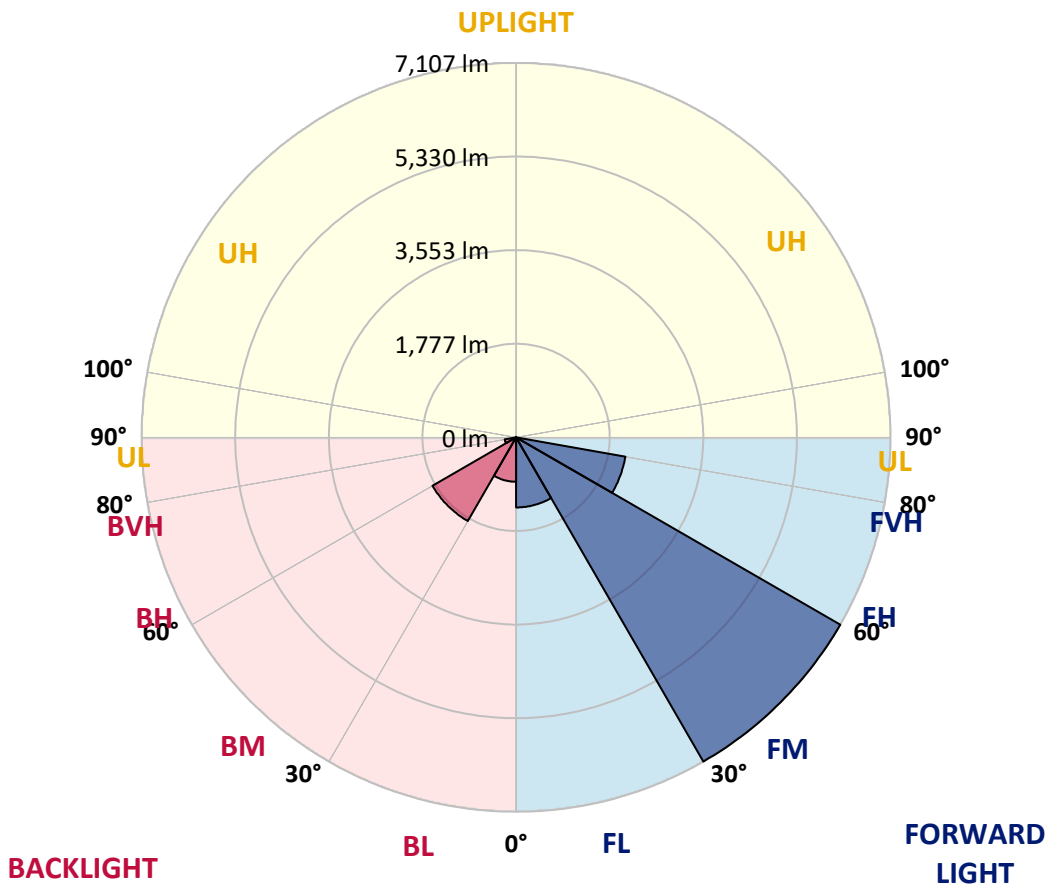
REPORT NUMBER: P638534

CATALOG NUMBER: GWS-SA4F-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°)	1330.5	9.9			
FM (30°-60°)	7106.8	52.9			
FH (60°-80°)	2106.4	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	843.0	6.3	B2/1000		
BM (30°-60°)	1833.5	13.6	B2/2500		
BH (60°-80°)	218.7	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: B2-U0-G2**  
 Type III Short





REPORT NUMBER: P638534

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5
2.5°	2536.8	2531.4	2513.4	2452.3	2414.6	2355.3	2312.2	2256.5	2195.4	2157.7	2120.0
5°	2806.3	2791.9	2743.4	2603.3	2495.5	2378.7	2285.3	2182.9	2073.3	2001.4	1934.9
7.5°	3065.0	3043.4	2978.7	2741.6	2578.1	2411.0	2278.1	2129.0	1974.5	1866.7	1784.0
10°	3318.3	3269.8	3167.4	2876.3	2655.4	2454.1	2297.8	2127.2	1945.7	1809.2	1717.5
12.5°	3526.7	3490.8	3350.6	3003.9	2720.0	2463.1	2270.9	2112.8	1990.6	1899.0	1814.6
15°	3706.4	3666.8	3533.9	3118.9	2775.7	2427.2	2157.7	2019.4	2039.1	2075.1	2003.2
17.5°	3871.7	3830.3	3686.6	3214.1	2797.3	2339.2	1999.6	1933.1	2042.7	2177.5	2150.5
20°	4042.3	3995.6	3819.6	3291.4	2790.1	2200.8	1839.7	1859.5	2014.0	2168.5	2182.9
22.5°	4241.8	4193.2	3988.4	3390.2	2784.7	2035.5	1701.4	1794.8	1960.1	2091.2	2116.4
25°	4505.9	4448.4	4223.8	3535.7	2799.1	1884.6	1602.6	1731.9	1868.5	1987.0	2001.4
27.5°	4854.4	4780.7	4495.1	3715.4	2829.6	1766.0	1559.4	1645.7	1751.7	1857.7	1870.3
30°	5308.9	5215.5	4805.9	3871.7	2815.3	1683.4	1530.7	1559.4	1622.3	1708.6	1710.4
32.5°	5840.7	5713.2	5154.4	4006.4	2691.3	1622.3	1491.2	1471.4	1485.8	1552.3	1564.8
35°	6465.9	6300.6	5538.9	4134.0	2464.9	1503.7	1419.3	1352.8	1347.4	1379.8	1410.3
37.5°	7182.8	6985.1	6024.0	4297.4	2197.2	1379.8	1313.3	1246.8	1218.1	1234.3	1281.0
40°	7843.9	7624.7	6530.6	4495.1	1924.1	1268.4	1189.3	1121.1	1086.9	1092.3	1149.8
42.5°	8620.0	8393.7	7150.4	4753.8	1697.8	1192.9	1060.0	989.9	945.0	970.2	1036.6
45°	9798.6	9541.7	8054.1	4978.4	1518.1	1175.0	946.8	848.0	826.4	869.6	948.6
47.5°	11408.4	11094.0	9295.6	5114.9	1365.4	1191.1	867.8	733.0	738.4	786.9	866.0
50°	13005.5	12666.0	10731.0	4935.2	1239.6	1158.8	828.2	643.2	677.3	720.4	792.3
52.5°	14103.2	13661.3	11429.9	4416.0	1124.7	1036.6	824.6	558.7	623.4	637.8	698.9
55°	14146.4	13602.0	11072.4	3481.8	968.4	874.9	786.9	488.7	564.1	569.5	621.6
57.5°	12400.1	11907.8	9676.4	2391.3	860.6	641.4	627.0	427.6	463.5	508.4	540.8
60°	9433.9	9015.3	7236.7	1095.9	654.0	407.8	429.4	368.3	346.7	413.2	445.6
62.5°	5777.8	5510.1	4340.6	485.1	416.8	217.4	260.5	292.8	260.5	285.7	312.6
65°	2294.2	2175.7	1647.5	206.6	170.7	109.6	118.6	170.7	183.3	201.2	226.4
67.5°	398.8	377.3	276.7	91.6	70.1	66.5	57.5	79.1	111.4	124.0	143.7
70°	52.1	50.3	44.9	37.7	35.9	32.3	25.2	50.3	75.5	79.1	91.6
72.5°	12.6	10.8	10.8	9.0	10.8	3.6	3.6	26.9	53.9	55.7	64.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	34.1	37.7	44.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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: P638534

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5
2.5°	2089.4	2053.5	2040.9	2023.0	1999.6	2006.8	1974.5	1963.7	1979.8	2001.4	1996.0
5°	1899.0	1859.5	1832.5	1791.2	1784.0	1767.8	1757.1	1742.7	1760.7	1785.8	1791.2
7.5°	1748.1	1713.9	1687.0	1674.4	1665.4	1658.3	1636.7	1625.9	1625.9	1636.7	1645.7
10°	1683.4	1658.3	1652.9	1656.5	1670.8	1669.0	1649.3	1634.9	1616.9	1607.9	1618.7
12.5°	1773.2	1731.9	1724.7	1726.5	1744.5	1742.7	1721.1	1703.2	1699.6	1703.2	1737.3
15°	1925.9	1863.1	1816.4	1807.4	1816.4	1812.8	1796.6	1785.8	1791.2	1843.3	1900.8
17.5°	2062.5	1965.5	1881.0	1848.7	1846.9	1841.5	1825.3	1821.7	1848.7	1945.7	2030.1
20°	2102.0	2006.8	1886.4	1845.1	1836.1	1830.7	1812.8	1818.2	1852.3	1969.1	2040.9
22.5°	2049.9	1958.3	1832.5	1791.2	1784.0	1782.2	1764.3	1771.4	1800.2	1902.6	1961.9
25°	1951.1	1873.8	1742.7	1706.8	1706.8	1703.2	1687.0	1690.6	1708.6	1798.4	1855.9
27.5°	1830.7	1757.1	1647.5	1611.5	1616.9	1622.3	1602.6	1597.2	1611.5	1696.0	1730.1
30°	1692.4	1640.3	1554.1	1521.7	1519.9	1541.5	1514.5	1507.3	1527.1	1593.6	1600.8
32.5°	1557.6	1532.5	1471.4	1446.3	1448.1	1451.6	1437.3	1437.3	1455.2	1491.2	1489.4
35°	1426.5	1410.3	1399.5	1381.6	1379.8	1372.6	1372.6	1376.2	1396.0	1408.5	1385.2
37.5°	1300.7	1316.9	1329.5	1311.5	1297.1	1297.1	1297.1	1313.3	1331.3	1325.9	1286.4
40°	1189.3	1223.5	1263.0	1243.2	1209.1	1207.3	1214.5	1241.4	1268.4	1236.1	1200.1
42.5°	1094.1	1137.2	1192.9	1182.2	1144.4	1139.0	1144.4	1178.6	1200.1	1158.8	1119.3
45°	1000.7	1054.6	1121.1	1121.1	1079.8	1074.4	1076.2	1121.1	1133.6	1085.1	1034.8
47.5°	921.7	980.9	1051.0	1051.0	1016.9	1006.1	1015.1	1061.8	1070.8	1002.5	955.8
50°	846.2	910.9	988.1	982.7	959.4	950.4	966.6	1016.9	1006.1	930.6	882.1
52.5°	751.0	819.2	925.2	930.6	918.1	919.9	939.6	972.0	941.4	849.8	808.5
55°	664.7	734.8	840.8	869.6	869.6	867.8	876.7	901.9	876.7	767.1	716.8
57.5°	571.3	630.6	718.6	725.8	731.2	711.5	724.0	758.2	745.6	652.2	623.4
60°	468.9	519.2	569.5	574.9	551.6	510.2	533.6	573.1	582.1	512.0	479.7
62.5°	332.4	380.9	440.2	440.2	416.8	375.5	406.0	440.2	427.6	355.7	336.0
65°	247.9	292.8	337.8	357.5	337.8	309.0	332.4	357.5	337.8	278.5	249.7
67.5°	159.9	190.4	217.4	233.6	237.2	233.6	244.3	237.2	213.8	174.3	158.1
70°	97.0	113.2	127.6	141.9	152.7	158.1	163.5	147.3	124.0	102.4	97.0
72.5°	70.1	84.4	97.0	107.8	120.4	124.0	124.0	113.2	91.6	71.9	66.5
75°	48.5	61.1	71.9	79.1	89.8	93.4	93.4	84.4	68.3	52.1	46.7
77.5°	1.8	12.6	12.6	10.8	14.4	18.0	18.0	21.6	19.8	14.4	12.6
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





REPORT NUMBER: P638534

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5
2.5°	2006.8	2071.5	2089.4	2155.9	2215.2	2274.5	2346.3	2389.5	2454.1	2499.1	2524.2
5°	1809.2	1863.1	1927.7	2026.6	2129.0	2242.1	2378.7	2497.3	2646.4	2756.0	2791.9
7.5°	1665.4	1735.5	1811.0	1934.9	2075.1	2226.0	2418.2	2612.2	2840.4	2989.5	3084.7
10°	1638.5	1710.4	1811.0	1933.1	2080.5	2252.9	2488.3	2739.8	3025.5	3206.9	3314.7
12.5°	1767.8	1845.1	1888.2	1943.9	2055.3	2247.5	2549.4	2869.2	3205.1	3402.7	3517.7
15°	1958.3	2026.6	1956.5	1886.4	1958.3	2190.0	2583.5	2977.0	3363.2	3591.4	3710.0
17.5°	2089.4	2094.8	1942.1	1793.0	1812.8	2085.8	2596.1	3084.7	3532.1	3771.0	3895.0
20°	2076.9	2033.7	1879.2	1713.9	1652.9	1951.1	2581.7	3180.0	3702.8	3952.5	4074.7
22.5°	1979.8	1929.5	1798.4	1636.7	1518.1	1791.2	2556.6	3266.2	3859.1	4142.9	4257.9
25°	1863.1	1809.2	1701.4	1559.4	1431.9	1636.7	2536.8	3384.8	4056.7	4390.9	4480.7
27.5°	1726.5	1679.8	1588.2	1485.8	1396.0	1519.9	2531.4	3541.1	4295.7	4692.7	4755.6
30°	1593.6	1550.5	1478.6	1419.3	1381.6	1451.6	2513.4	3708.2	4581.3	5039.4	5107.7
32.5°	1466.0	1422.9	1378.0	1369.0	1370.8	1426.5	2452.3	3873.5	4920.9	5542.5	5592.8
35°	1356.4	1306.1	1288.2	1309.7	1349.2	1383.4	2279.9	4010.0	5285.6	6090.4	6131.8
37.5°	1252.2	1201.9	1200.1	1252.2	1295.3	1316.9	2076.9	4144.7	5777.8	6647.4	6699.5
40°	1157.0	1106.7	1124.7	1187.5	1221.7	1232.5	1830.7	4349.5	6298.9	7234.9	7206.1
42.5°	1076.2	1024.1	1034.8	1115.7	1146.2	1175.0	1604.4	4520.2	6800.1	7791.8	7782.8
45°	997.1	957.6	950.4	1038.4	1065.4	1180.4	1439.1	4651.4	7445.1	8501.5	8515.8
47.5°	919.9	889.3	891.1	928.8	995.3	1207.3	1298.9	4737.6	8381.1	9626.1	9376.4
50°	849.8	826.4	846.2	803.1	950.4	1173.2	1178.6	4719.6	9426.7	10704.1	10202.8
52.5°	772.5	767.1	776.1	671.9	878.5	1034.8	1065.4	4480.7	9917.2	11440.7	11155.0
55°	693.5	691.7	619.8	537.2	734.8	826.4	912.7	3738.7	9901.0	11832.4	12179.1
57.5°	600.1	585.7	470.7	438.4	571.3	574.9	831.8	2448.8	8774.6	10894.5	11613.2
60°	454.5	443.8	344.9	355.7	398.8	368.3	662.9	1219.9	6557.6	8487.1	9297.4
62.5°	314.4	300.0	256.9	274.9	256.9	210.2	406.0	603.7	3972.3	5359.2	6094.0
65°	230.0	213.8	176.1	150.9	120.4	120.4	154.5	231.8	1537.9	2278.1	2747.0
67.5°	141.9	134.7	104.2	75.5	73.7	79.1	80.8	115.0	247.9	395.3	483.3
70°	91.6	84.4	70.1	48.5	44.9	46.7	48.5	53.9	62.9	68.3	82.6
72.5°	62.9	59.3	50.3	26.9	21.6	23.4	25.2	25.2	30.5	28.7	34.1
75°	44.9	41.3	35.9	12.6	7.2	9.0	10.8	9.0	10.8	7.2	9.0
77.5°	12.6	12.6	9.0	1.8	0.0	1.8	3.6	3.6	1.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	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: P638534

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5	2283.5
2.5°	2588.9	2630.2	2646.4	2623.0	2642.8	2610.4	2597.9	2549.4	2545.8	2536.8
5°	2937.4	3030.9	3086.5	3120.7	3081.2	3038.0	2973.4	2862.0	2827.8	2806.3
7.5°	3280.6	3426.1	3521.3	3566.2	3555.5	3467.4	3350.6	3163.8	3097.3	3065.0
10°	3578.8	3756.7	3871.7	3927.3	3904.0	3826.7	3659.7	3426.1	3338.1	3318.3
12.5°	3787.2	3950.7	4029.8	4078.3	4080.1	4049.5	3891.4	3656.1	3551.9	3526.7
15°	3918.4	3988.4	3990.2	4019.0	4069.3	4137.6	4063.9	3855.5	3744.1	3706.4
17.5°	4001.0	3923.8	3844.7	3851.9	3934.5	4116.0	4191.4	4031.6	3913.0	3871.7
20°	4060.3	3816.0	3668.6	3670.4	3754.9	4029.8	4279.5	4202.2	4080.1	4042.3
22.5°	4098.0	3720.7	3510.5	3505.2	3595.0	3927.3	4360.3	4405.2	4284.9	4241.8
25°	4175.3	3675.8	3415.3	3445.9	3524.9	3895.0	4469.9	4674.7	4563.3	4505.9
27.5°	4313.6	3720.7	3406.3	3476.4	3566.2	3990.2	4660.4	5034.1	4919.1	4854.4
30°	4552.6	3889.6	3544.7	3641.7	3749.5	4240.0	4980.2	5535.3	5370.0	5308.9
32.5°	4937.0	4240.0	3972.3	4180.7	4284.9	4649.6	5459.8	6097.6	5962.9	5840.7
35°	5467.0	5039.4	5008.9	5494.0	5468.8	5425.7	6049.1	6787.5	6584.5	6465.9
37.5°	6196.4	6325.8	6552.2	7033.7	7017.5	6688.7	6823.5	7439.7	7335.5	7182.8
40°	7107.3	7382.2	7766.7	8456.6	8241.0	7827.8	7773.9	8108.0	8023.6	7843.9
42.5°	7644.5	8118.8	8851.8	9471.6	9299.2	8576.9	8515.8	9000.9	8815.9	8620.0
45°	7894.2	8718.9	10156.1	10995.1	10472.3	9074.6	9051.2	10165.1	10060.9	9798.6
47.5°	8009.2	9324.3	11683.2	12953.4	11976.1	9511.2	9426.7	11853.9	11717.4	11408.4
50°	8136.8	10159.7	13522.9	15222.5	13792.4	10005.2	10066.3	13427.7	13370.2	13005.5
52.5°	8417.0	11043.7	15788.4	17816.8	15995.1	10779.6	11164.0	14911.7	14523.6	14103.2
55°	8837.4	12006.6	18145.6	20466.8	18242.6	11819.8	12351.6	15700.4	14611.7	14146.4
57.5°	8372.1	12247.4	19541.5	22317.3	19239.7	11823.4	11347.3	14333.2	12851.0	12400.1
60°	6643.8	11394.0	19004.3	21916.6	18389.9	10499.3	8688.3	11191.0	9735.7	9433.9
62.5°	4491.5	9556.1	16729.9	18535.4	15739.9	8258.9	5646.7	7278.0	6027.6	5777.8
65°	2461.3	7128.9	13517.6	14022.4	12319.2	5768.9	2905.1	3158.4	2405.6	2294.2
67.5°	679.1	4962.2	9945.9	9302.8	8643.4	3756.7	751.0	564.1	402.4	398.8
70°	170.7	3282.4	5959.3	6142.5	5299.9	2405.6	143.7	68.3	53.9	52.1
72.5°	71.9	1412.1	2827.8	3250.0	2712.9	1113.9	52.1	19.8	16.2	12.6
75°	9.0	113.2	240.7	364.7	249.7	120.4	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)