

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: P633589

Luminaire Tested: GWS-SA2F-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9349.2 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

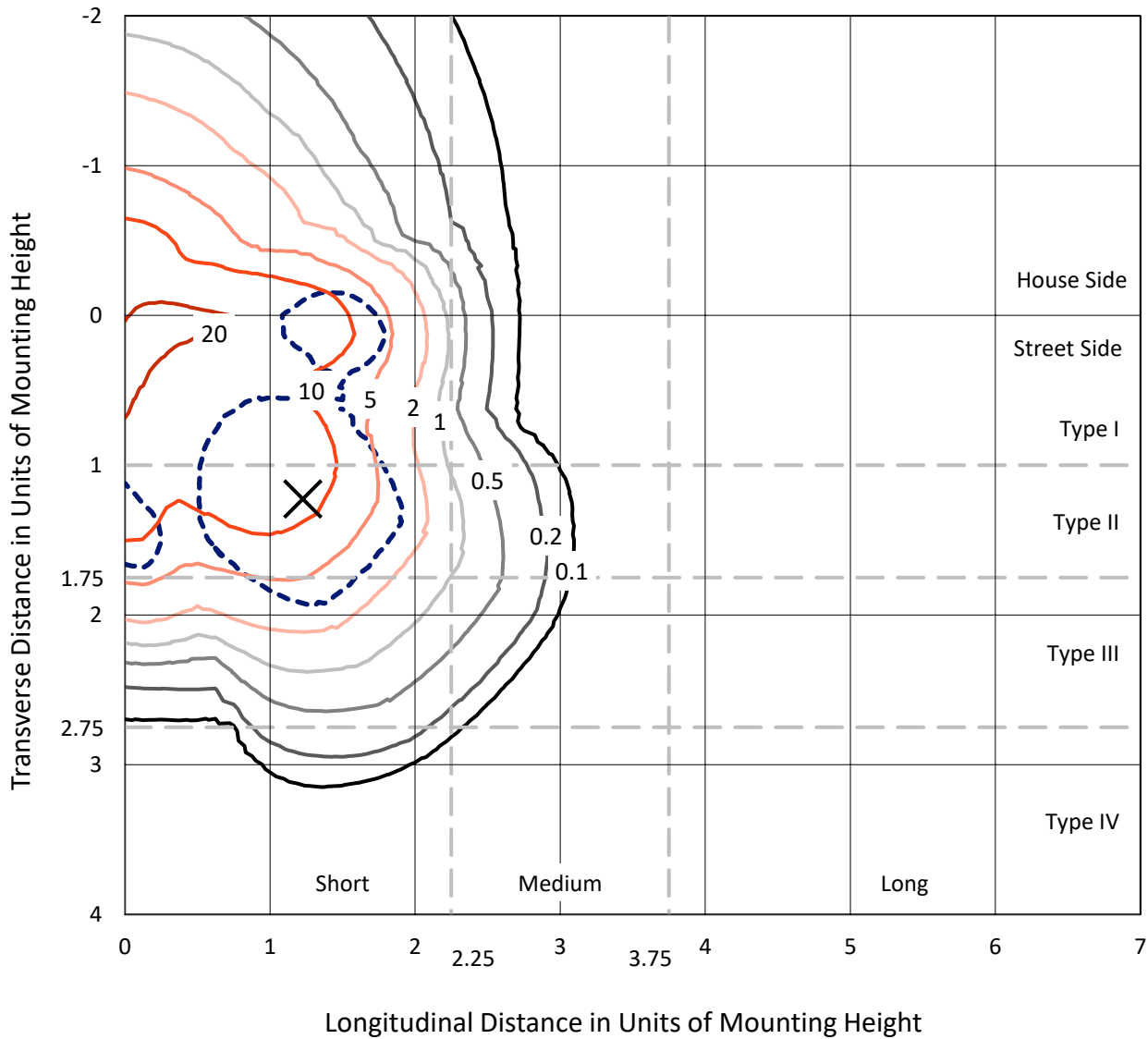
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

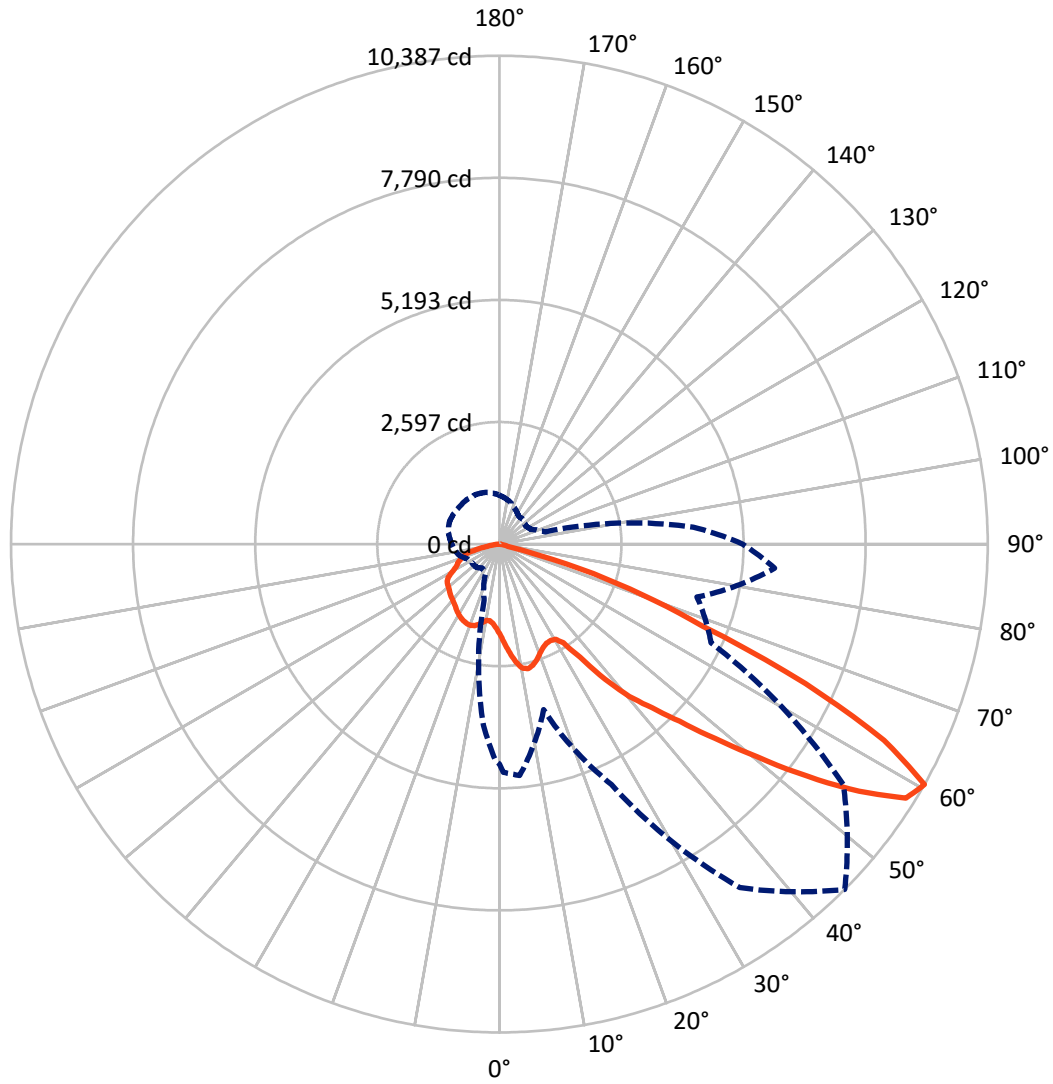
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3277.2	0.0	3277.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	6072.0	0.0	6072.0
	% Fixture	64.9	0.0	64.9
Total	Lumens	9349.2	0.0	9349.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	2.0
10°-20°	592.1	6.3
20°-30°	961.9	10.3
30°-40°	1356.5	14.5
40°-50°	1874.7	20.1
50°-60°	2413.3	25.8
60°-70°	1529.1	16.4
70°-80°	392.4	4.2
80°-90°	42.0	0.4
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°	9349.2	100.0
0°-180°	9349.2	100.0

Coefficient of Utilization



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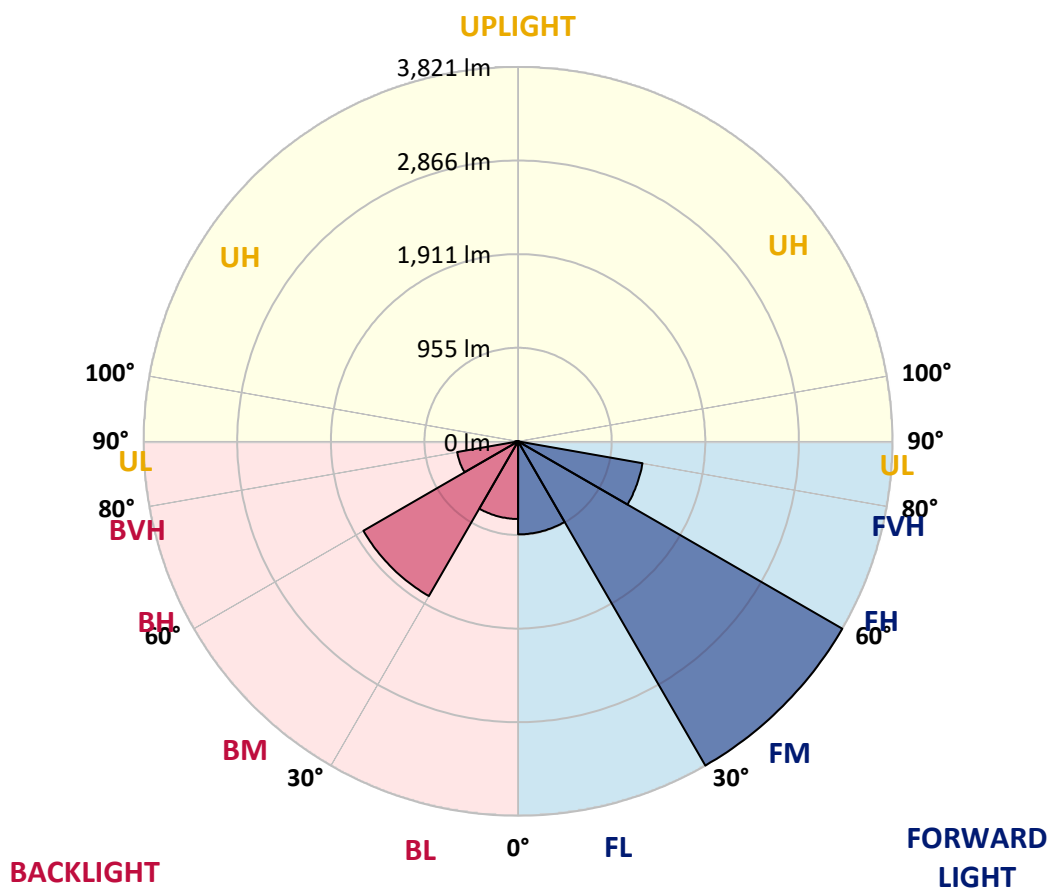
CATALOG NUMBER: GWS-SA2F-722-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.3	10.2			
FM (30°-60°)	3821.4	40.9			
FH (60°-80°)	1289.9	13.8			G1/1800
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	792.1	8.5	B2/1000		
BM (30°-60°)	1823.0	19.5	B2/2500		
BH (60°-80°)	631.6	6.8	B2/1000		G2/1000
BVH (80°-90°)	30.6	0.3			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6
2.5°	2008.8	2022.5	2031.1	2047.4	2076.5	2092.8	2110.8	2091.1	2096.2	2093.6	2061.9
5°	2127.9	2144.2	2166.5	2214.4	2268.4	2298.4	2326.6	2322.4	2295.8	2251.3	2219.6
7.5°	2239.3	2258.1	2296.7	2374.6	2454.3	2500.5	2534.8	2512.5	2490.3	2420.0	2340.4
10°	2326.6	2337.8	2390.0	2494.6	2587.1	2639.3	2681.3	2676.2	2645.3	2566.5	2459.4
12.5°	2408.9	2416.6	2473.1	2577.6	2660.7	2683.9	2718.1	2729.3	2719.0	2659.9	2554.5
15°	2497.1	2511.7	2563.9	2643.6	2681.3	2657.3	2669.3	2700.1	2729.3	2729.3	2632.5
17.5°	2579.4	2592.2	2645.3	2679.6	2643.6	2580.2	2583.6	2623.0	2692.4	2765.3	2703.6
20°	2652.2	2664.2	2716.4	2683.9	2569.9	2477.4	2474.8	2522.8	2635.0	2788.4	2779.8
22.5°	2731.8	2749.0	2792.7	2687.3	2501.4	2384.0	2383.2	2432.9	2584.5	2811.5	2867.2
25°	2844.9	2871.5	2893.7	2717.3	2464.6	2323.2	2334.4	2381.5	2568.2	2849.2	2996.5
27.5°	3012.8	3034.2	3032.5	2779.8	2462.9	2298.4	2321.5	2376.3	2597.3	2916.0	3132.8
30°	3194.4	3205.6	3187.6	2867.2	2502.3	2313.8	2348.1	2413.2	2671.0	3026.5	3333.2
32.5°	3395.7	3409.4	3375.2	2998.3	2593.9	2427.7	2503.1	2534.8	2774.7	3185.9	3545.7
35°	3627.0	3653.6	3582.5	3171.3	2863.8	2843.2	2952.9	2911.7	2994.8	3374.3	3772.7
37.5°	3870.3	3871.2	3769.2	3427.4	3393.2	3428.3	3647.6	3519.1	3461.7	3584.2	4004.0
40°	4076.8	4071.6	3914.9	3772.7	3854.0	3993.7	4258.4	4061.4	3910.6	3866.0	4195.9
42.5°	4283.2	4264.4	4105.9	3992.0	4171.9	4458.8	4757.8	4516.2	4198.4	4122.2	4385.2
45°	4547.1	4541.1	4350.0	4079.3	4458.8	4979.7	5376.3	4984.8	4368.9	4271.2	4700.4
47.5°	4972.8	4943.7	4588.2	4072.5	4727.8	5673.6	6174.7	5575.1	4488.0	4274.7	5209.3
50°	5389.2	5353.2	4872.6	4071.6	5005.4	6393.1	7117.0	6292.1	4609.6	4295.2	5726.7
52.5°	5809.8	5809.8	5339.5	4168.4	5296.6	7196.7	8205.8	7185.5	4816.9	4564.2	6363.2
55°	6059.9	6126.7	5864.6	4332.1	5637.6	8142.4	9282.6	8150.1	5137.3	5049.9	6950.8
57.5°	5742.1	5867.2	5829.5	4218.1	5838.9	8837.2	10195.8	8881.7	5295.8	5107.3	6862.6
60°	4679.0	4852.9	4939.4	3642.5	5640.2	8917.7	10386.8	8929.7	4968.5	4349.2	5878.3
62.5°	3110.5	3253.5	3385.5	2602.5	4882.9	8022.5	9186.7	8025.1	4149.6	3245.8	4072.5
65°	1525.7	1631.9	1774.1	1538.5	3814.6	6703.3	7162.4	6484.8	3001.7	1816.9	2077.4
67.5°	399.2	429.2	448.9	597.1	2732.7	4816.1	4671.3	4743.2	1928.3	593.7	543.1
70°	207.3	209.0	208.2	246.7	1846.9	3060.8	3219.3	2978.6	1345.8	248.4	214.2
72.5°	148.2	149.1	146.5	166.2	891.8	1753.6	1816.9	1797.2	705.0	147.3	146.5
75°	96.8	97.7	95.9	97.7	134.5	199.6	184.2	193.6	117.4	93.4	93.4
77.5°	57.4	58.3	57.4	59.1	57.4	57.4	53.1	53.1	50.5	50.5	51.4
80°	38.5	38.5	37.7	39.4	36.0	36.0	34.3	33.4	30.8	30.0	30.0
82.5°	23.1	24.0	23.1	23.1	21.4	21.4	19.7	18.8	16.3	16.3	15.4
85°	12.0	12.0	11.1	11.1	9.4	8.6	6.9	6.9	5.1	4.3	4.3
87.5°	1.7	1.7	0.9	0.9	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°	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6
2.5°	2053.4	2036.2	2010.5	1985.7	1962.6	1938.6	1911.2	1882.9	1858.9	1834.1	1821.2
5°	2177.6	2142.5	2075.7	2016.5	1963.4	1919.7	1872.6	1832.4	1794.7	1763.8	1748.4
7.5°	2289.8	2235.0	2133.9	2040.5	1968.6	1908.6	1843.5	1783.5	1733.0	1695.3	1680.7
10°	2393.5	2328.4	2195.6	2077.4	1993.4	1926.6	1846.9	1765.5	1698.7	1649.0	1637.0
12.5°	2477.4	2402.9	2244.4	2107.3	2008.0	1936.0	1865.8	1795.5	1729.6	1665.3	1655.0
15°	2551.9	2463.7	2281.2	2126.2	2002.8	1911.2	1852.1	1843.5	1843.5	1770.7	1750.1
17.5°	2616.2	2519.4	2311.2	2134.8	1970.3	1837.5	1801.5	1876.1	1960.0	1907.8	1861.5
20°	2689.9	2572.5	2336.1	2134.8	1910.3	1744.1	1740.7	1867.5	1991.7	1992.6	1943.7
22.5°	2764.4	2634.2	2365.2	2127.1	1828.1	1636.2	1699.6	1833.2	1943.7	1990.8	1957.4
25°	2885.2	2719.9	2411.5	2121.1	1732.1	1562.5	1662.7	1787.8	1881.2	1930.9	1909.5
27.5°	3038.5	2832.9	2481.7	2130.5	1637.0	1518.8	1623.3	1728.7	1813.5	1857.2	1841.8
30°	3209.9	2963.1	2557.1	2146.8	1568.5	1496.6	1576.2	1661.0	1736.4	1780.1	1773.3
32.5°	3428.3	3104.5	2622.2	2124.5	1530.0	1485.4	1526.5	1587.4	1660.2	1687.6	1693.6
35°	3689.6	3260.4	2671.9	2037.1	1494.8	1473.4	1472.6	1510.3	1561.7	1605.4	1609.6
37.5°	3930.3	3442.9	2726.7	1887.2	1431.5	1443.4	1409.2	1431.5	1482.0	1525.7	1542.8
40°	4168.4	3627.9	2802.9	1696.2	1348.4	1376.6	1336.4	1351.8	1392.0	1449.4	1476.9
42.5°	4399.7	3794.9	2883.5	1500.8	1265.3	1283.3	1253.3	1268.7	1310.7	1382.6	1413.5
45°	4651.6	4021.1	2946.0	1316.7	1193.3	1185.6	1161.6	1183.9	1247.3	1326.1	1362.9
47.5°	5127.9	4377.5	2987.1	1194.2	1154.8	1099.1	1071.7	1119.6	1191.6	1271.3	1315.8
50°	5709.5	4893.2	2975.1	1116.2	1121.3	1010.0	1000.6	1064.0	1141.1	1224.1	1273.0
52.5°	6170.4	5399.4	2838.9	1041.7	1056.2	953.4	926.0	1018.6	1092.2	1177.0	1227.6
55°	6522.5	5569.9	2420.9	953.4	950.0	912.3	854.9	971.4	1043.4	1122.2	1177.0
57.5°	6235.5	5190.4	1794.7	831.8	811.2	830.9	775.3	891.8	983.4	1061.4	1110.2
60°	5175.0	4138.5	999.7	736.7	678.5	726.4	717.9	807.8	918.3	1000.6	1042.5
62.5°	3513.1	2755.8	592.8	582.5	550.0	618.5	663.9	723.0	831.8	898.6	938.0
65°	1751.0	1338.9	394.1	436.0	440.3	508.8	594.5	659.6	750.4	819.0	858.4
67.5°	508.0	416.3	299.8	333.2	379.5	434.3	502.9	579.9	668.2	749.6	795.8
70°	219.3	221.9	238.1	277.6	323.0	379.5	448.0	523.4	597.9	660.5	695.6
72.5°	155.1	161.0	179.0	219.3	262.1	316.1	384.6	457.4	511.4	574.8	611.6
75°	99.4	103.7	118.2	149.1	180.8	233.0	298.1	364.9	420.6	466.0	501.1
77.5°	54.8	55.7	67.7	85.7	107.1	140.5	188.5	240.7	281.8	307.5	339.2
80°	31.7	31.7	37.7	48.8	61.7	82.2	108.8	134.5	159.3	175.6	191.0
82.5°	17.1	17.1	19.7	26.6	33.4	45.4	60.8	73.7	89.1	97.7	107.9
85°	5.1	5.1	6.9	9.4	12.0	17.1	24.0	30.8	37.7	43.7	49.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6
2.5°	1818.7	1806.7	1799.8	1791.2	1793.8	1786.1	1781.8	1784.4	1769.0	1784.4	1799.8
5°	1742.4	1725.3	1711.6	1700.4	1695.3	1685.0	1679.0	1679.0	1669.6	1685.0	1703.9
7.5°	1675.6	1661.9	1655.0	1648.2	1640.5	1631.1	1620.8	1617.3	1611.4	1627.6	1643.9
10°	1631.1	1632.8	1637.0	1646.5	1644.8	1638.8	1623.3	1614.8	1614.8	1633.6	1658.5
12.5°	1651.6	1669.6	1679.9	1697.0	1700.4	1695.3	1679.9	1673.0	1690.2	1718.4	1759.6
15°	1731.3	1743.3	1751.8	1765.5	1764.7	1760.4	1748.4	1753.6	1810.1	1864.9	1901.8
17.5°	1817.8	1804.1	1802.4	1810.9	1813.5	1808.4	1801.5	1824.7	1918.0	1969.4	1988.3
20°	1880.3	1833.2	1822.9	1826.4	1833.2	1830.7	1830.7	1868.3	1965.1	1989.1	1965.1
22.5°	1899.2	1832.4	1816.9	1817.8	1827.2	1828.1	1832.4	1871.8	1928.3	1929.2	1892.3
25°	1869.2	1805.0	1793.8	1795.5	1806.7	1805.8	1807.5	1829.8	1854.6	1844.4	1816.9
27.5°	1812.7	1757.0	1753.6	1763.0	1777.5	1769.8	1764.7	1770.7	1782.7	1769.8	1745.8
30°	1748.4	1701.3	1703.0	1721.0	1736.4	1723.6	1710.7	1714.1	1715.0	1701.3	1673.9
32.5°	1680.7	1645.6	1651.6	1670.5	1688.4	1674.7	1661.0	1659.3	1643.0	1626.8	1600.2
35°	1613.1	1599.4	1607.1	1622.5	1637.9	1626.8	1618.2	1613.1	1577.9	1554.0	1531.7
37.5°	1551.4	1561.7	1575.4	1584.8	1589.9	1589.1	1583.9	1571.9	1525.7	1497.4	1468.3
40°	1496.6	1528.3	1542.8	1547.1	1554.8	1553.1	1552.2	1535.1	1474.3	1444.3	1410.9
42.5°	1446.9	1491.4	1516.3	1520.5	1524.8	1525.7	1523.1	1498.3	1428.9	1393.8	1362.1
45°	1398.9	1457.2	1488.9	1484.6	1490.6	1490.6	1493.1	1460.6	1384.3	1348.4	1315.0
47.5°	1356.9	1425.5	1454.6	1449.4	1452.9	1455.4	1458.0	1420.3	1335.5	1301.2	1267.0
50°	1318.4	1391.2	1416.0	1417.7	1417.7	1423.7	1422.9	1386.1	1294.4	1257.6	1223.3
52.5°	1277.3	1356.1	1382.6	1393.8	1397.2	1399.8	1387.8	1344.9	1252.4	1207.9	1176.2
55°	1229.3	1320.1	1344.1	1358.6	1365.5	1363.8	1347.5	1303.8	1209.6	1165.0	1129.1
57.5°	1156.5	1243.0	1277.3	1284.1	1295.2	1288.4	1269.5	1232.7	1141.1	1096.5	1059.7
60°	1076.8	1139.3	1166.8	1172.7	1164.2	1166.8	1164.2	1129.1	1049.4	1014.3	976.6
62.5°	972.3	1028.0	1057.1	1064.8	1050.2	1059.7	1056.2	1012.6	932.9	896.1	862.6
65°	893.5	954.3	988.6	992.9	988.6	992.9	980.9	927.7	852.4	814.7	780.4
67.5°	831.8	894.3	930.3	942.3	938.0	937.2	918.3	856.6	778.7	737.6	693.9
70°	725.6	780.4	826.7	855.8	855.8	839.5	803.5	746.1	683.6	648.5	614.2
72.5°	642.5	711.9	757.3	787.3	793.3	783.8	733.3	672.5	600.5	565.4	529.4
75°	529.4	597.1	645.9	685.3	693.0	682.7	624.5	564.5	497.7	463.4	427.5
77.5°	353.8	394.1	433.5	469.4	461.7	468.6	429.2	383.8	342.7	317.0	300.7
80°	199.6	226.2	238.1	257.9	257.9	257.9	232.2	210.7	187.6	173.0	156.8
82.5°	113.1	130.2	135.4	151.6	155.9	156.8	139.6	125.9	111.4	103.7	92.5
85°	52.3	61.7	62.5	72.0	75.4	82.2	74.5	65.1	56.5	53.1	46.3
87.5°	1.7	5.1	6.9	12.8	17.1	19.7	21.4	21.4	18.0	16.3	13.7
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: P633589

CATALOG NUMBER: GWS-SA2F-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6	1920.6
2.5°	1818.7	1839.2	1863.2	1880.3	1911.2	1936.9	1963.4	1992.6	2014.0	2008.8
5°	1727.0	1761.3	1805.0	1845.2	1902.6	1960.9	2025.1	2091.1	2129.6	2127.9
7.5°	1675.6	1724.4	1777.5	1831.5	1899.2	1983.1	2081.6	2184.4	2236.7	2239.3
10°	1703.0	1755.3	1791.2	1836.6	1907.8	2013.1	2131.3	2254.7	2314.7	2326.6
12.5°	1789.5	1785.2	1782.7	1815.2	1900.9	2034.5	2179.3	2326.6	2394.3	2408.9
15°	1871.8	1783.5	1730.4	1752.7	1870.1	2048.2	2226.4	2405.5	2481.7	2497.1
17.5°	1887.2	1753.6	1655.0	1670.5	1821.2	2052.5	2271.8	2482.6	2564.8	2579.4
20°	1844.4	1715.0	1600.2	1578.8	1759.6	2041.4	2300.1	2546.8	2636.8	2652.2
22.5°	1790.4	1680.7	1559.1	1503.4	1684.2	2030.3	2331.8	2614.5	2718.1	2731.8
25°	1733.9	1637.0	1520.5	1435.7	1598.5	2023.4	2384.9	2703.6	2828.6	2844.9
27.5°	1673.9	1583.9	1487.1	1403.2	1519.7	2032.0	2460.3	2847.5	2989.7	3012.8
30°	1609.6	1530.8	1465.7	1392.0	1465.7	2039.7	2543.4	2994.8	3161.9	3194.4
32.5°	1542.8	1482.0	1443.4	1397.2	1432.3	2021.7	2616.2	3160.2	3367.5	3395.7
35°	1476.0	1432.3	1415.2	1406.6	1387.8	1955.7	2675.3	3327.2	3602.2	3627.0
37.5°	1413.5	1380.9	1375.8	1385.2	1319.2	1847.8	2743.8	3539.7	3832.6	3870.3
40°	1355.2	1325.2	1324.4	1322.7	1243.8	1700.4	2836.4	3755.5	4059.6	4076.8
42.5°	1301.2	1263.6	1270.4	1249.8	1182.2	1541.1	2923.7	3939.7	4271.2	4283.2
45°	1253.3	1203.6	1211.3	1185.6	1153.0	1374.1	3000.8	4157.3	4539.4	4547.1
47.5°	1207.0	1153.9	1132.5	1130.8	1147.9	1219.9	3076.2	4576.2	4959.1	4972.8
50°	1164.2	1106.8	1046.0	1083.7	1116.2	1104.2	3170.4	5025.1	5392.6	5389.2
52.5°	1123.1	1047.7	961.2	1034.0	1034.0	1018.6	3143.9	5297.5	5750.7	5809.8
55°	1075.9	952.6	872.9	950.9	913.2	941.5	2673.6	5386.6	5976.0	6059.9
57.5°	982.6	835.2	765.8	807.8	751.3	872.9	1920.6	4944.6	5593.0	5742.1
60°	892.6	748.7	703.3	695.6	621.9	711.9	1244.7	3871.2	4603.6	4679.0
62.5°	787.3	674.2	635.6	576.5	500.3	518.3	753.8	2547.7	3093.3	3110.5
65°	707.6	610.8	537.1	466.9	409.5	376.1	445.5	1228.4	1546.2	1525.7
67.5°	607.4	523.4	453.2	402.6	355.5	313.5	296.4	364.9	412.9	399.2
70°	540.5	460.0	392.3	344.4	300.7	258.7	228.7	215.0	210.7	207.3
72.5°	466.0	395.8	325.5	279.3	238.1	199.6	172.2	155.9	151.6	148.2
75°	371.8	305.8	241.6	197.9	161.9	134.5	116.5	102.8	100.2	96.8
77.5°	245.9	196.2	143.9	117.4	95.9	81.4	69.4	60.8	59.1	57.4
80°	135.4	113.1	88.2	71.1	57.4	49.7	45.4	40.3	39.4	38.5
82.5°	80.5	67.7	50.5	40.3	33.4	30.0	27.4	24.8	24.0	23.1
85°	40.3	31.7	22.3	18.8	17.1	15.4	15.4	12.8	12.0	12.0
87.5°	10.3	8.6	5.1	4.3	4.3	4.3	3.4	2.6	2.6	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)