

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: P631461

Luminaire Tested: GWS-SA1F-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7452.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

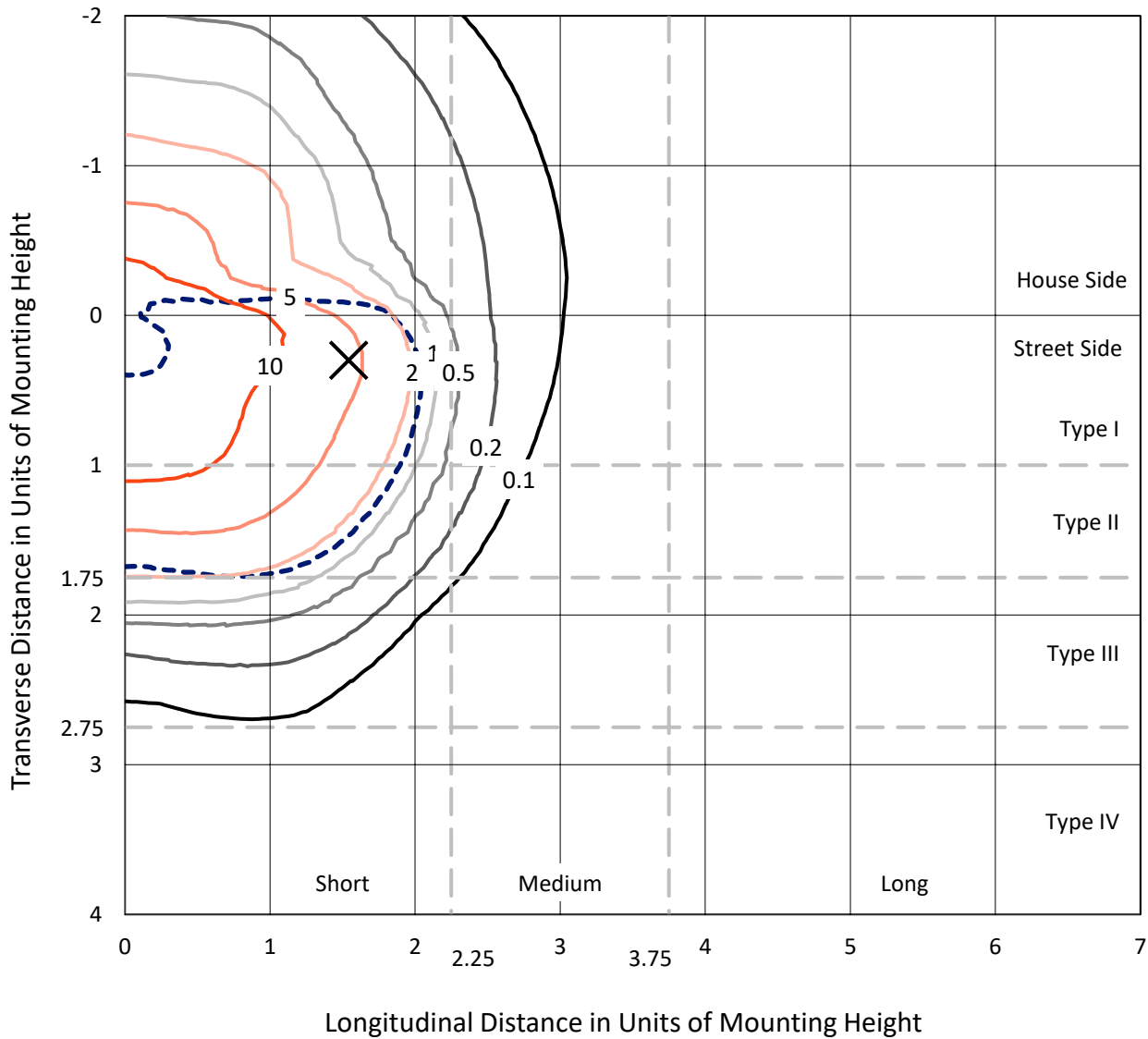
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631461
 CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

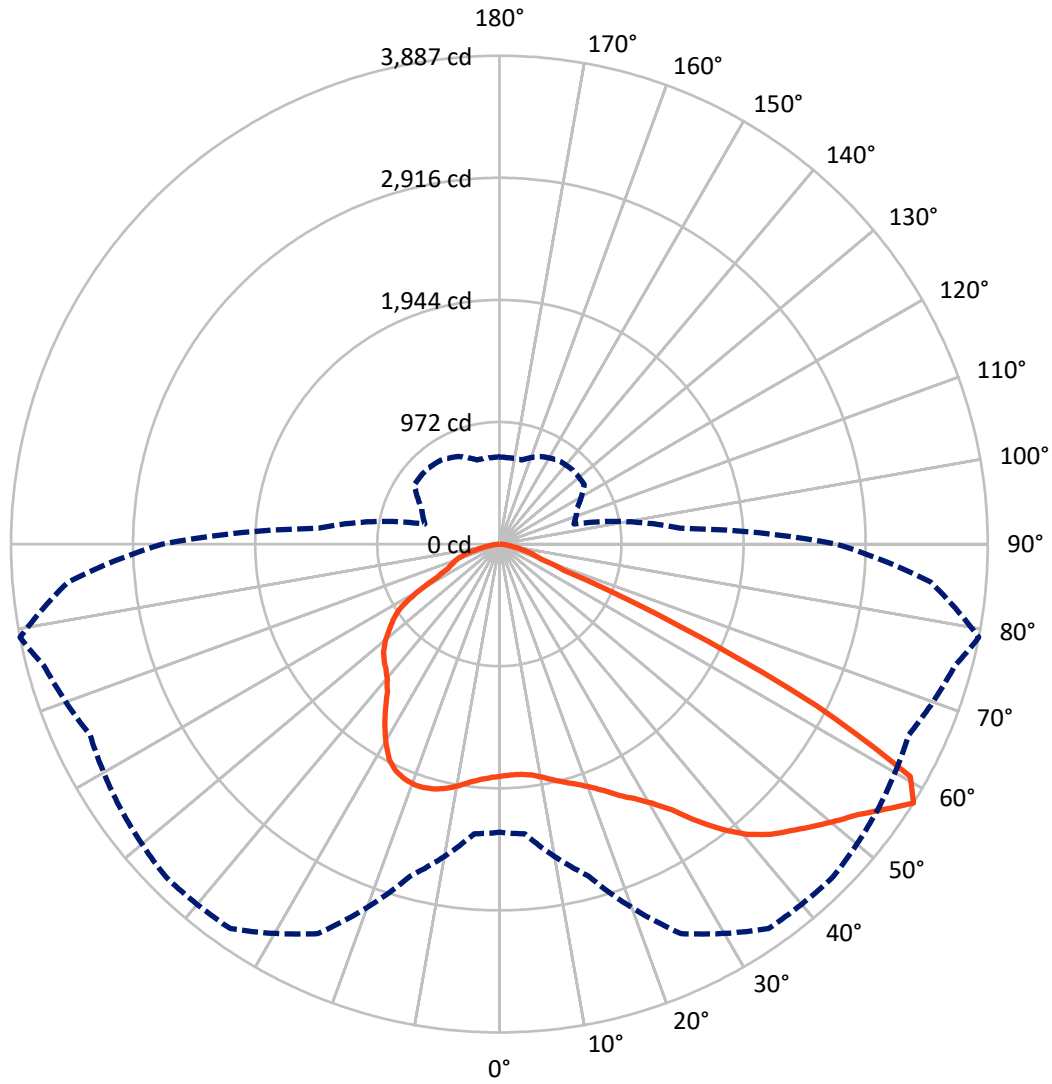
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

REPORT NUMBER: P631461
CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P631461

CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-GRSWH

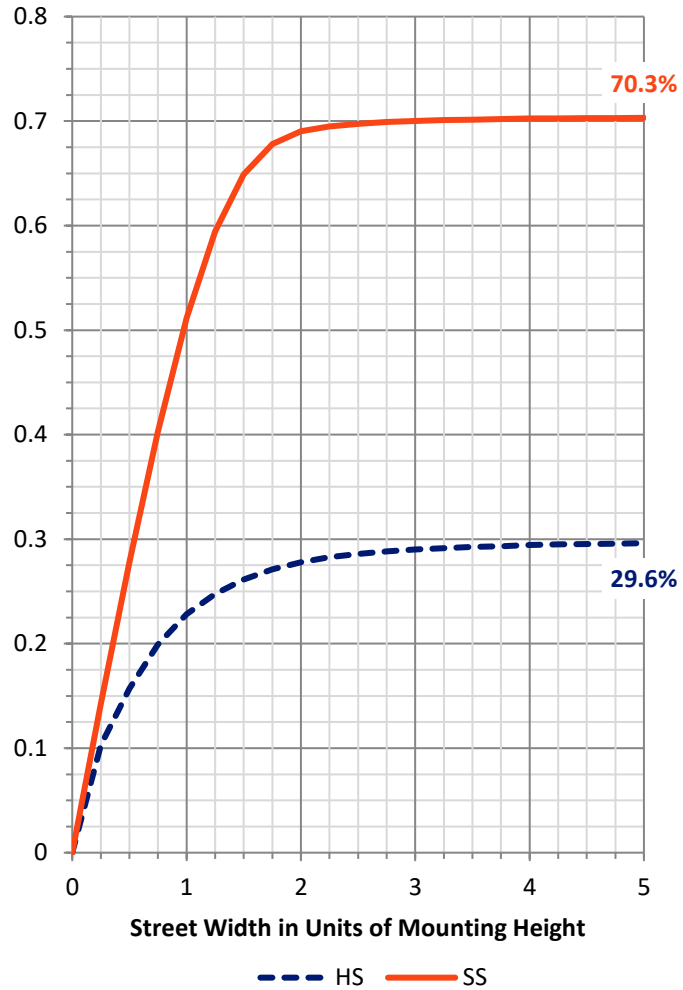
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2215.2 | 0.0 | 2215.2 |
| | % Fixture | 29.7 | 0.0 | 29.7 |
| Street Side | Lumens | 5236.9 | 0.0 | 5236.9 |
| | % Fixture | 70.3 | 0.0 | 70.3 |
| Total | Lumens | 7452.1 | 0.0 | 7452.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 171.0 | 2.3 |
| 10°-20° | 475.3 | 6.4 |
| 20°-30° | 805.6 | 10.8 |
| 30°-40° | 1233.1 | 16.5 |
| 40°-50° | 1644.3 | 22.1 |
| 50°-60° | 1899.0 | 25.5 |
| 60°-70° | 986.8 | 13.2 |
| 70°-80° | 209.8 | 2.8 |
| 80°-90° | 27.2 | 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° | 7452.1 | 100.0 |
| 0°-180° | 7452.1 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P631461

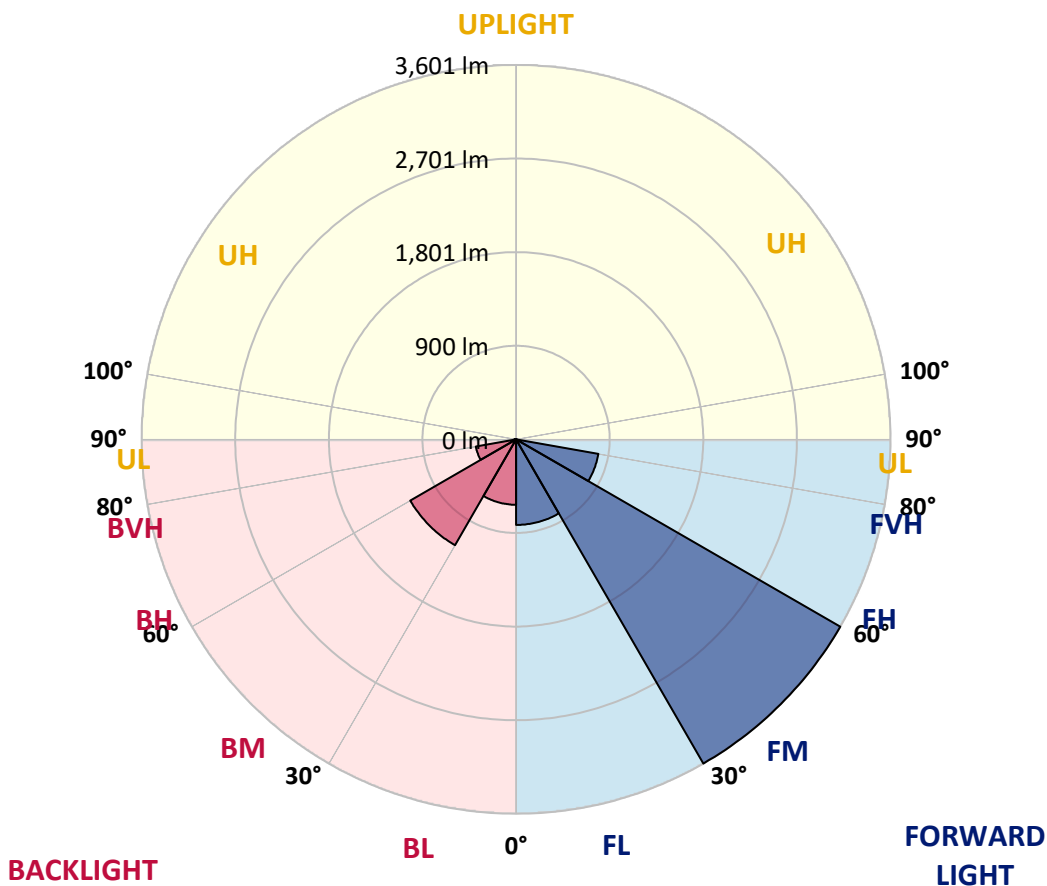
CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 822.9 | 11.0 | | | |
| FM (30°-60°) | 3601.1 | 48.3 | | | |
| FH (60°-80°) | 803.5 | 10.8 | | | G1/1800 |
| FVH (80°-90°) | 9.5 | 0.1 | | | G0/10 |
| BL (0°-30°) | 629.1 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 1175.4 | 15.8 | B2/2500 | | |
| BH (60°-80°) | 393.0 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.7 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P631461

CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 |
| 2.5° | 1762.7 | 1759.1 | 1760.3 | 1765.2 | 1783.4 | 1796.8 | 1810.9 | 1823.6 | 1835.8 | 1839.5 | 1842.5 |
| 5° | 1700.0 | 1693.3 | 1695.1 | 1703.0 | 1724.3 | 1746.9 | 1771.9 | 1802.3 | 1831.6 | 1841.3 | 1854.1 |
| 7.5° | 1655.5 | 1654.3 | 1657.3 | 1669.5 | 1692.0 | 1713.4 | 1745.7 | 1788.9 | 1839.5 | 1855.9 | 1878.5 |
| 10° | 1596.4 | 1593.9 | 1606.1 | 1631.1 | 1668.3 | 1702.4 | 1740.8 | 1792.0 | 1862.6 | 1887.0 | 1921.7 |
| 12.5° | 1549.5 | 1548.2 | 1561.0 | 1595.8 | 1643.3 | 1697.5 | 1750.5 | 1807.8 | 1893.7 | 1927.2 | 1969.9 |
| 15° | 1576.9 | 1571.4 | 1572.0 | 1596.4 | 1639.0 | 1703.0 | 1774.9 | 1836.4 | 1924.8 | 1967.4 | 2022.3 |
| 17.5° | 1656.7 | 1647.0 | 1639.6 | 1643.9 | 1668.3 | 1734.7 | 1812.1 | 1874.8 | 1960.7 | 2010.7 | 2077.7 |
| 20° | 1767.0 | 1761.5 | 1741.4 | 1728.0 | 1733.5 | 1792.0 | 1870.6 | 1929.1 | 2007.7 | 2063.7 | 2135.6 |
| 22.5° | 1915.0 | 1901.6 | 1874.2 | 1852.9 | 1836.4 | 1882.1 | 1954.6 | 2005.2 | 2072.9 | 2131.3 | 2206.3 |
| 25° | 2098.4 | 2078.9 | 2035.7 | 2002.2 | 1966.8 | 2013.8 | 2078.3 | 2116.7 | 2162.4 | 2216.7 | 2287.9 |
| 27.5° | 2285.5 | 2269.1 | 2220.9 | 2175.8 | 2132.0 | 2161.2 | 2238.0 | 2259.9 | 2255.0 | 2294.6 | 2355.6 |
| 30° | 2484.7 | 2464.0 | 2418.3 | 2369.6 | 2312.9 | 2331.8 | 2400.7 | 2411.6 | 2359.8 | 2392.7 | 2434.2 |
| 32.5° | 2695.0 | 2674.8 | 2635.2 | 2578.6 | 2514.6 | 2521.9 | 2540.8 | 2551.2 | 2501.8 | 2520.7 | 2552.4 |
| 35° | 2908.8 | 2889.9 | 2849.7 | 2793.7 | 2746.7 | 2702.3 | 2654.7 | 2696.2 | 2667.5 | 2704.1 | 2701.7 |
| 37.5° | 3104.4 | 3085.5 | 3060.5 | 3017.3 | 2936.8 | 2849.1 | 2739.4 | 2790.6 | 2835.1 | 2881.4 | 2873.5 |
| 40° | 3236.6 | 3223.8 | 3229.9 | 3223.2 | 3119.6 | 2946.0 | 2780.9 | 2836.9 | 2958.2 | 3037.4 | 3033.1 |
| 42.5° | 3350.6 | 3337.8 | 3373.1 | 3398.7 | 3276.8 | 3035.6 | 2801.0 | 2854.6 | 3036.8 | 3160.5 | 3154.4 |
| 45° | 3401.1 | 3397.5 | 3456.0 | 3537.0 | 3420.6 | 3130.6 | 2852.8 | 2891.2 | 3096.5 | 3254.9 | 3231.8 |
| 47.5° | 3340.8 | 3353.6 | 3468.8 | 3605.9 | 3540.1 | 3243.3 | 2958.8 | 2968.5 | 3174.5 | 3357.3 | 3292.1 |
| 50° | 3220.8 | 3248.8 | 3404.2 | 3607.7 | 3627.2 | 3370.7 | 3105.6 | 3081.3 | 3279.3 | 3466.3 | 3323.8 |
| 52.5° | 3045.9 | 3075.2 | 3328.6 | 3593.7 | 3677.2 | 3518.1 | 3301.2 | 3266.5 | 3411.5 | 3575.4 | 3329.2 |
| 55° | 2644.4 | 2684.0 | 3155.6 | 3562.0 | 3725.9 | 3652.2 | 3521.8 | 3451.1 | 3582.1 | 3725.3 | 3383.5 |
| 57.5° | 2294.0 | 2314.7 | 2734.0 | 3421.2 | 3735.6 | 3750.9 | 3679.0 | 3594.9 | 3751.5 | 3887.4 | 3444.4 |
| 60° | 1683.5 | 1688.4 | 2065.5 | 2830.8 | 3436.5 | 3693.6 | 3666.2 | 3541.3 | 3671.1 | 3757.6 | 3165.3 |
| 62.5° | 951.1 | 951.7 | 1252.7 | 1889.5 | 2567.0 | 3010.6 | 3027.6 | 2917.4 | 2808.3 | 2833.9 | 2203.2 |
| 65° | 357.1 | 390.6 | 572.1 | 928.6 | 1480.0 | 1777.3 | 1848.0 | 1873.6 | 1692.0 | 1579.3 | 1181.4 |
| 67.5° | 238.8 | 246.8 | 333.9 | 477.7 | 658.7 | 760.4 | 850.6 | 853.0 | 623.9 | 556.3 | 465.5 |
| 70° | 182.2 | 190.1 | 262.6 | 341.8 | 333.9 | 308.3 | 333.3 | 324.2 | 335.1 | 344.3 | 354.0 |
| 72.5° | 135.9 | 143.8 | 203.5 | 241.3 | 200.5 | 197.4 | 223.6 | 248.6 | 271.7 | 281.5 | 296.7 |
| 75° | 90.2 | 96.3 | 137.1 | 129.2 | 110.9 | 131.0 | 163.3 | 188.3 | 201.7 | 213.3 | 224.8 |
| 77.5° | 57.3 | 61.5 | 73.1 | 59.1 | 61.5 | 76.8 | 95.1 | 117.6 | 130.4 | 142.0 | 148.1 |
| 80° | 26.2 | 25.6 | 25.0 | 28.0 | 34.7 | 45.1 | 57.3 | 70.7 | 80.4 | 85.3 | 89.0 |
| 82.5° | 10.4 | 11.6 | 12.8 | 15.2 | 18.9 | 24.4 | 32.3 | 41.4 | 49.4 | 50.6 | 53.6 |
| 85° | 4.3 | 4.9 | 5.5 | 6.7 | 8.5 | 11.0 | 13.4 | 18.9 | 23.8 | 25.6 | 27.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.2 | 1.8 | 3.0 | 5.5 | 6.1 | 6.7 |
| 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: P631461

CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 | 1846.8 |
| 2.5° | 1859.0 | 1851.1 | 1864.5 | 1873.6 | 1882.1 | 1873.0 | 1870.0 | 1862.0 | 1860.8 | 1860.8 | 1865.1 |
| 5° | 1876.0 | 1870.6 | 1884.6 | 1890.1 | 1889.5 | 1869.3 | 1857.2 | 1841.3 | 1833.4 | 1833.4 | 1834.6 |
| 7.5° | 1906.5 | 1903.5 | 1911.4 | 1902.9 | 1883.4 | 1842.5 | 1802.3 | 1768.8 | 1746.3 | 1734.7 | 1738.3 |
| 10° | 1957.1 | 1953.4 | 1946.7 | 1915.0 | 1859.0 | 1774.3 | 1692.0 | 1631.1 | 1594.6 | 1573.8 | 1575.1 |
| 12.5° | 2006.4 | 2000.3 | 1976.6 | 1906.5 | 1791.4 | 1656.7 | 1548.9 | 1480.6 | 1440.4 | 1416.0 | 1410.5 |
| 15° | 2060.7 | 2044.8 | 1993.6 | 1862.6 | 1681.1 | 1512.9 | 1400.2 | 1326.5 | 1283.2 | 1268.6 | 1268.0 |
| 17.5° | 2112.5 | 2084.4 | 1991.8 | 1784.7 | 1548.9 | 1362.4 | 1249.1 | 1203.4 | 1196.1 | 1202.8 | 1204.6 |
| 20° | 2164.9 | 2119.8 | 1971.7 | 1676.8 | 1391.7 | 1212.5 | 1154.0 | 1172.9 | 1200.3 | 1218.6 | 1222.9 |
| 22.5° | 2219.1 | 2149.0 | 1926.0 | 1537.9 | 1225.9 | 1111.4 | 1135.7 | 1177.2 | 1211.3 | 1235.7 | 1238.1 |
| 25° | 2280.0 | 2176.4 | 1857.8 | 1367.9 | 1093.1 | 1083.3 | 1131.5 | 1175.3 | 1211.9 | 1239.9 | 1244.8 |
| 27.5° | 2314.7 | 2177.0 | 1762.1 | 1193.0 | 1032.2 | 1072.4 | 1121.1 | 1162.6 | 1199.1 | 1229.6 | 1235.1 |
| 30° | 2348.9 | 2160.6 | 1610.4 | 1051.1 | 1014.5 | 1059.6 | 1103.5 | 1141.8 | 1176.6 | 1206.4 | 1213.1 |
| 32.5° | 2397.0 | 2145.4 | 1435.5 | 969.4 | 1004.1 | 1047.4 | 1083.3 | 1117.5 | 1144.3 | 1157.7 | 1161.3 |
| 35° | 2456.7 | 2125.9 | 1249.7 | 934.1 | 997.4 | 1037.6 | 1069.3 | 1087.6 | 1052.9 | 1045.6 | 1053.5 |
| 37.5° | 2540.2 | 2107.6 | 1064.5 | 918.8 | 993.2 | 1034.0 | 1062.0 | 1015.1 | 972.5 | 955.4 | 961.5 |
| 40° | 2630.4 | 2097.2 | 938.9 | 906.6 | 995.0 | 1037.6 | 1031.6 | 962.1 | 900.6 | 864.6 | 863.4 |
| 42.5° | 2707.1 | 2081.4 | 858.5 | 898.7 | 999.9 | 1051.7 | 990.1 | 915.2 | 823.8 | 802.5 | 803.1 |
| 45° | 2758.9 | 2041.2 | 815.9 | 890.2 | 1004.1 | 1054.7 | 970.6 | 850.6 | 785.4 | 772.0 | 771.4 |
| 47.5° | 2780.3 | 1968.1 | 788.4 | 876.8 | 1003.5 | 1029.7 | 931.0 | 823.8 | 758.6 | 754.9 | 757.4 |
| 50° | 2766.2 | 1848.0 | 760.4 | 850.6 | 988.9 | 1003.5 | 885.3 | 800.0 | 740.3 | 760.4 | 775.0 |
| 52.5° | 2714.5 | 1692.6 | 726.9 | 814.6 | 962.7 | 973.7 | 862.2 | 785.4 | 726.9 | 753.7 | 765.3 |
| 55° | 2701.0 | 1566.5 | 684.2 | 767.7 | 923.7 | 920.7 | 837.8 | 778.1 | 717.8 | 707.4 | 709.2 |
| 57.5° | 2683.4 | 1443.4 | 613.6 | 683.6 | 825.0 | 829.9 | 814.6 | 769.6 | 694.0 | 691.0 | 694.0 |
| 60° | 2331.2 | 1106.5 | 547.2 | 589.8 | 677.5 | 703.7 | 788.4 | 753.7 | 655.6 | 642.8 | 642.2 |
| 62.5° | 1522.7 | 670.2 | 486.8 | 514.3 | 552.0 | 582.5 | 719.0 | 708.0 | 613.6 | 605.6 | 611.1 |
| 65° | 818.9 | 477.7 | 443.0 | 459.4 | 480.1 | 503.3 | 595.9 | 630.6 | 554.5 | 526.4 | 527.0 |
| 67.5° | 418.6 | 406.4 | 410.1 | 421.6 | 437.5 | 449.1 | 480.7 | 511.2 | 472.8 | 449.1 | 448.4 |
| 70° | 358.3 | 368.0 | 373.5 | 380.2 | 390.6 | 388.7 | 391.8 | 397.3 | 394.2 | 382.6 | 382.0 |
| 72.5° | 305.3 | 320.5 | 321.7 | 322.9 | 326.6 | 318.1 | 312.6 | 303.4 | 304.0 | 305.9 | 306.5 |
| 75° | 232.1 | 246.8 | 250.4 | 248.6 | 252.3 | 241.3 | 234.0 | 224.8 | 213.9 | 212.0 | 213.3 |
| 77.5° | 151.1 | 162.7 | 168.2 | 166.9 | 168.8 | 160.2 | 156.6 | 146.8 | 134.0 | 129.2 | 129.2 |
| 80° | 91.4 | 98.1 | 102.4 | 103.6 | 105.4 | 99.3 | 93.2 | 84.7 | 79.2 | 73.7 | 73.7 |
| 82.5° | 55.4 | 59.7 | 62.8 | 62.8 | 64.6 | 57.9 | 53.0 | 46.9 | 44.5 | 39.6 | 39.6 |
| 85° | 28.0 | 31.1 | 32.3 | 31.7 | 30.5 | 25.0 | 23.2 | 20.1 | 18.9 | 16.5 | 16.5 |
| 87.5° | 6.7 | 8.5 | 8.5 | 6.1 | 6.1 | 3.0 | 1.8 | 0.6 | 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 |

(END OF REPORT)