

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: P631267

Luminaire Tested: GWS-SA1F-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8165.6 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

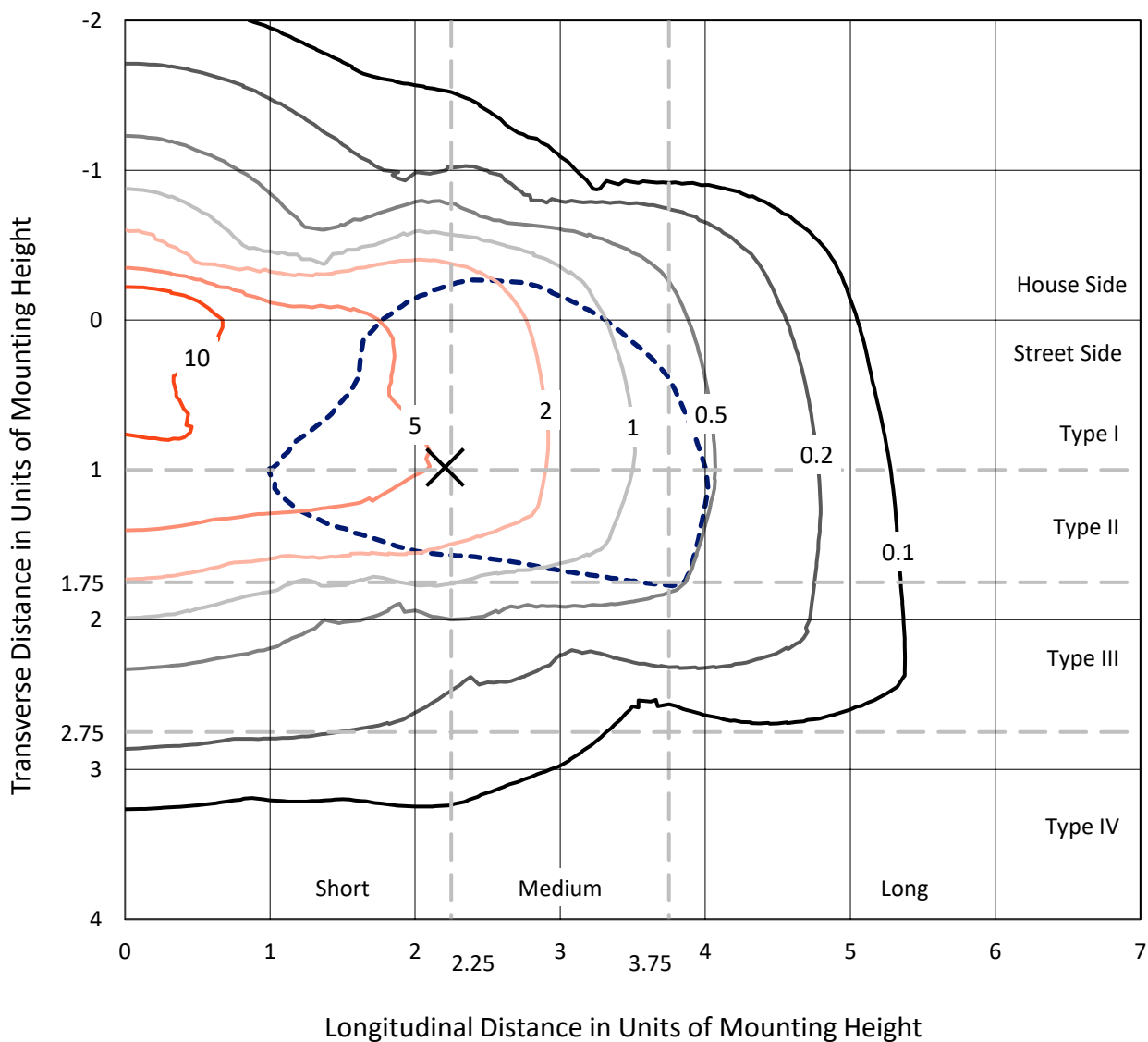
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631267
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Iso-Footcandle Lines of Horizontal Illumination

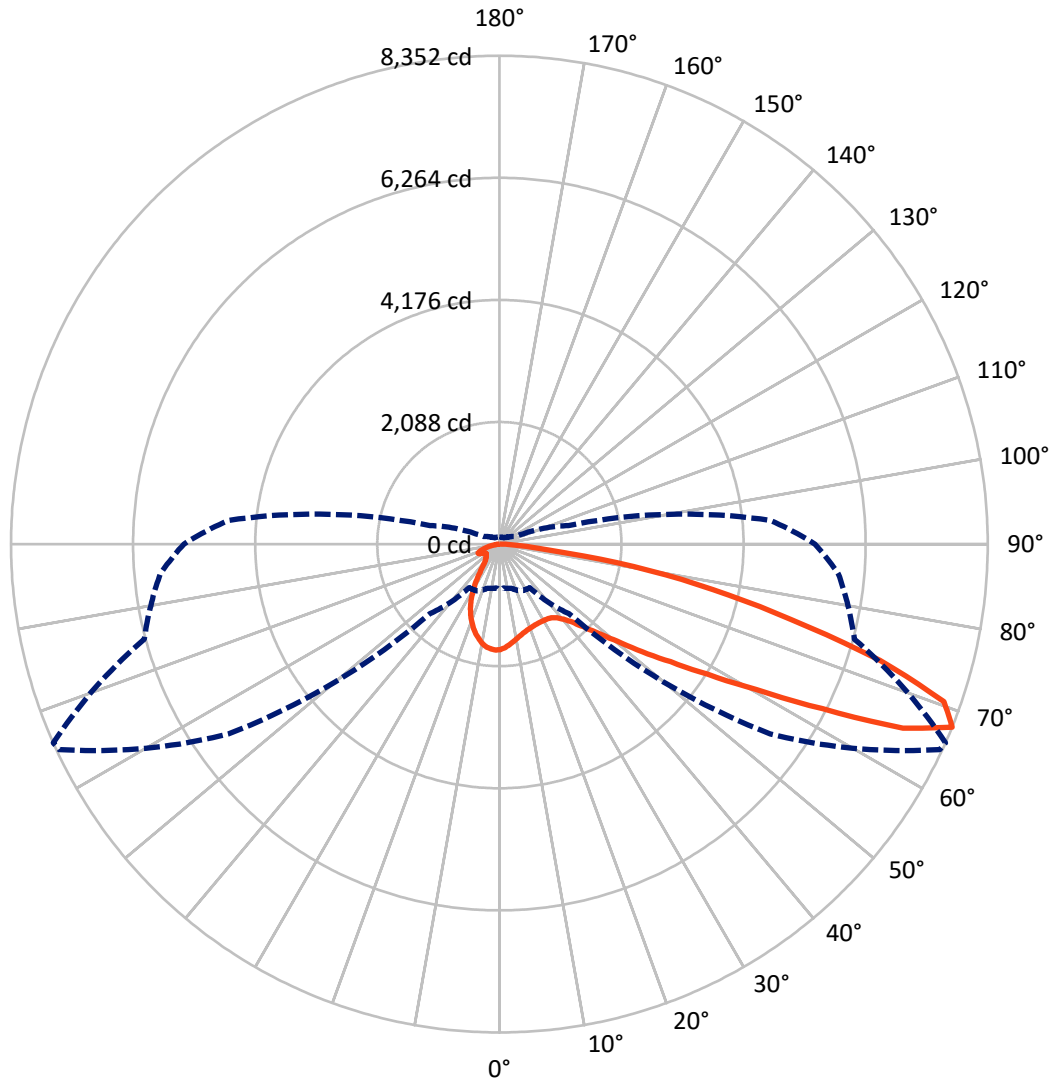
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - N/A

REPORT NUMBER: P631267
CATALOG NUMBER: GWS-SA1F-735-U-SL2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWS-SA1F-735-U-SL2-W

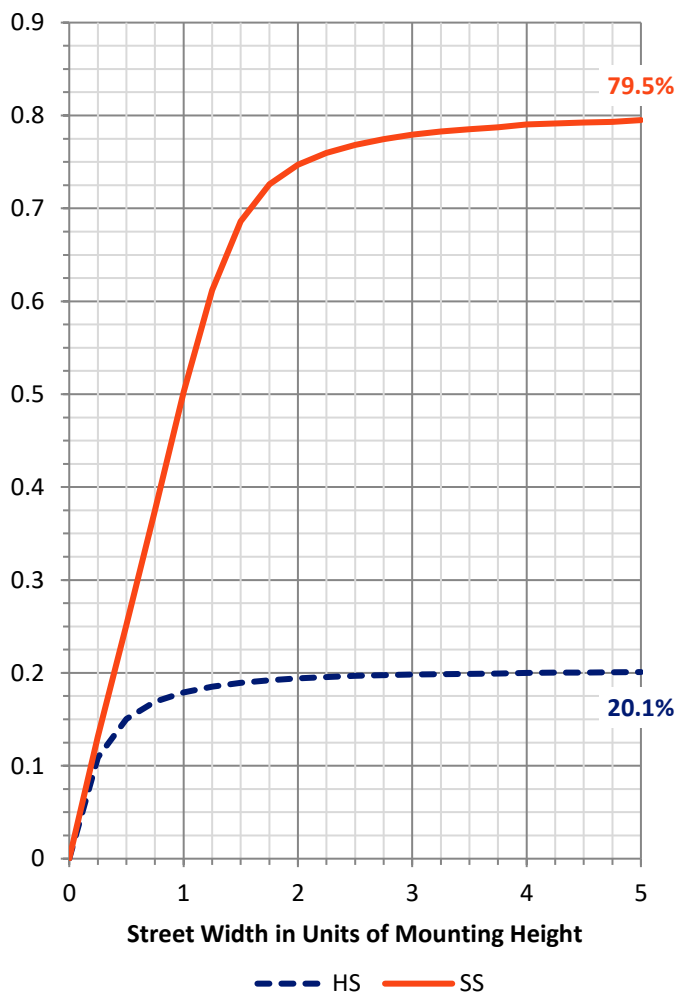
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1657.0 | 0.0 | 1657.0 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 6508.6 | 0.0 | 6508.6 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 8165.6 | 0.0 | 8165.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 158.4 | 1.9 |
| 10°-20° | 389.2 | 4.8 |
| 20°-30° | 534.9 | 6.6 |
| 30°-40° | 731.3 | 9.0 |
| 40°-50° | 1108.2 | 13.6 |
| 50°-60° | 1722.7 | 21.1 |
| 60°-70° | 2097.3 | 25.7 |
| 70°-80° | 1277.6 | 15.6 |
| 80°-90° | 145.9 | 1.8 |
| 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° | 8165.6 | 100.0 |
| 0°-180° | 8165.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P631267

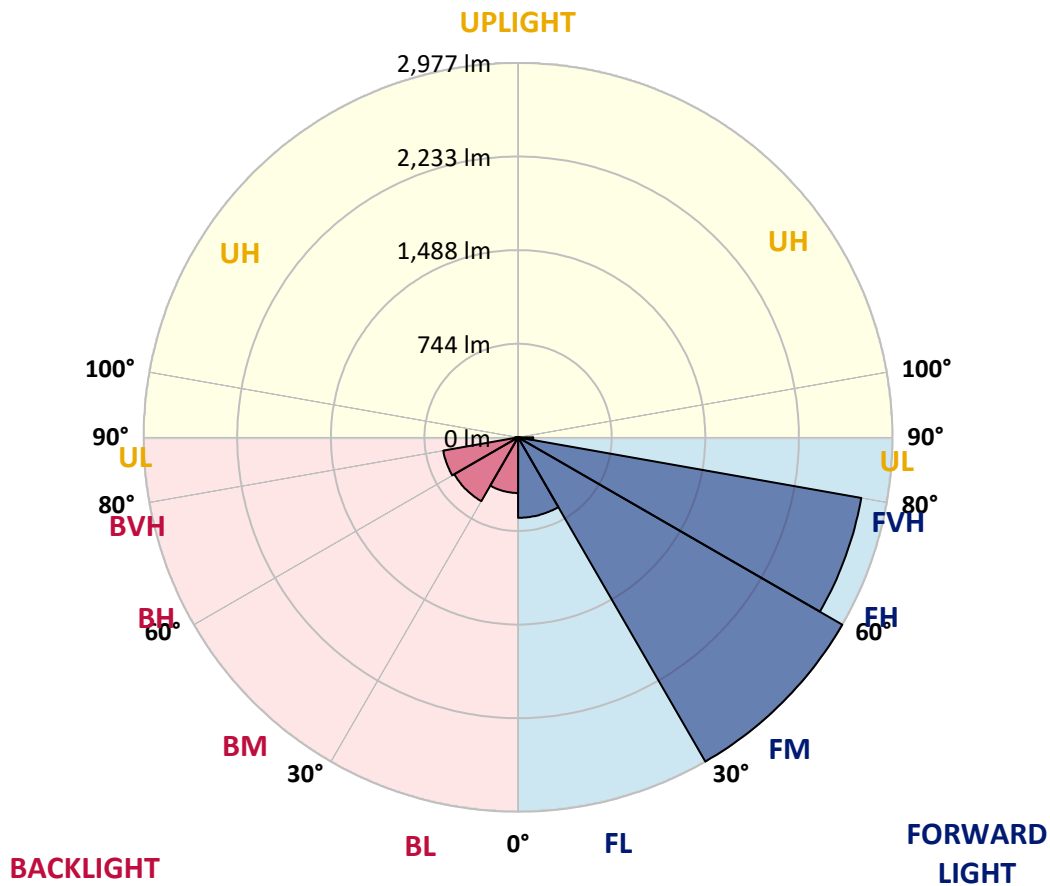
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 639.8 | 7.8 | | | |
| FM (30°-60°) | 2976.7 | 36.5 | | | |
| FH (60°-80°) | 2770.8 | 33.9 | | | G2/5000 |
| FVH (80°-90°) | 121.3 | 1.5 | | | G2/225 |
| BL (0°-30°) | 442.7 | 5.4 | B1/500 | | |
| BM (30°-60°) | 585.6 | 7.2 | B1/1000 | | |
| BH (60°-80°) | 604.2 | 7.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 24.6 | 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 II Short





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 CATALOG NUMBER: GWS-SA1F-735-U-SL2-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 |
| 2.5° | 1690.0 | 1695.9 | 1692.4 | 1715.0 | 1716.2 | 1744.8 | 1760.9 | 1774.6 | 1775.8 | 1793.6 | 1805.6 |
| 5° | 1574.4 | 1578.0 | 1578.0 | 1599.4 | 1613.7 | 1651.9 | 1688.8 | 1728.1 | 1731.1 | 1774.0 | 1806.7 |
| 7.5° | 1480.9 | 1484.5 | 1482.1 | 1510.7 | 1529.2 | 1571.4 | 1618.5 | 1678.7 | 1684.6 | 1753.7 | 1810.9 |
| 10° | 1407.6 | 1406.4 | 1412.4 | 1438.6 | 1462.4 | 1513.1 | 1565.5 | 1634.0 | 1642.9 | 1730.5 | 1815.7 |
| 12.5° | 1357.6 | 1358.8 | 1362.4 | 1389.8 | 1415.4 | 1465.4 | 1519.6 | 1594.1 | 1603.6 | 1703.7 | 1813.3 |
| 15° | 1333.8 | 1331.4 | 1334.4 | 1359.4 | 1383.8 | 1427.9 | 1483.9 | 1560.7 | 1570.3 | 1679.9 | 1813.9 |
| 17.5° | 1328.4 | 1326.6 | 1326.0 | 1343.9 | 1362.4 | 1403.5 | 1457.1 | 1535.1 | 1545.2 | 1664.4 | 1817.5 |
| 20° | 1345.1 | 1342.7 | 1336.1 | 1343.9 | 1351.6 | 1386.2 | 1438.0 | 1516.6 | 1528.0 | 1654.3 | 1824.6 |
| 22.5° | 1391.0 | 1386.8 | 1376.7 | 1367.1 | 1357.0 | 1377.8 | 1426.1 | 1502.9 | 1514.3 | 1647.7 | 1831.8 |
| 25° | 1460.6 | 1457.1 | 1446.4 | 1424.9 | 1388.0 | 1384.4 | 1423.7 | 1497.0 | 1508.3 | 1642.9 | 1834.7 |
| 27.5° | 1556.6 | 1551.2 | 1540.5 | 1509.5 | 1449.3 | 1408.8 | 1432.7 | 1496.4 | 1507.1 | 1637.6 | 1831.8 |
| 30° | 1670.3 | 1666.8 | 1660.8 | 1623.3 | 1542.9 | 1460.6 | 1452.9 | 1501.2 | 1509.5 | 1634.6 | 1825.8 |
| 32.5° | 1785.9 | 1782.3 | 1787.1 | 1769.2 | 1670.3 | 1546.4 | 1497.0 | 1514.3 | 1520.2 | 1634.0 | 1820.4 |
| 35° | 1887.8 | 1891.9 | 1926.5 | 1929.5 | 1832.4 | 1662.6 | 1566.7 | 1544.6 | 1545.8 | 1645.9 | 1822.8 |
| 37.5° | 1994.4 | 2010.5 | 2055.7 | 2094.5 | 2013.5 | 1816.3 | 1670.3 | 1601.8 | 1600.6 | 1676.3 | 1837.7 |
| 40° | 2135.6 | 2142.7 | 2200.5 | 2273.2 | 2222.5 | 2027.2 | 1817.5 | 1695.4 | 1687.0 | 1738.2 | 1877.6 |
| 42.5° | 2273.2 | 2290.5 | 2382.8 | 2466.2 | 2449.5 | 2264.8 | 2002.7 | 1835.3 | 1820.4 | 1847.9 | 1959.8 |
| 45° | 2448.3 | 2465.0 | 2568.6 | 2675.9 | 2706.3 | 2533.5 | 2239.8 | 2034.3 | 2019.4 | 2012.9 | 2110.6 |
| 47.5° | 2623.4 | 2640.7 | 2733.7 | 2888.5 | 2995.2 | 2869.5 | 2548.4 | 2297.0 | 2272.6 | 2247.0 | 2338.1 |
| 50° | 2741.4 | 2761.7 | 2850.4 | 3036.3 | 3286.5 | 3288.8 | 2914.1 | 2641.3 | 2610.3 | 2569.8 | 2658.6 |
| 52.5° | 2737.2 | 2750.3 | 2834.9 | 3049.4 | 3496.1 | 3770.8 | 3403.8 | 3079.8 | 3054.7 | 2966.6 | 3044.0 |
| 55° | 2522.2 | 2541.8 | 2627.0 | 2895.1 | 3518.8 | 4227.7 | 4123.4 | 3596.8 | 3552.1 | 3394.3 | 3479.5 |
| 57.5° | 2090.3 | 2107.0 | 2192.8 | 2523.4 | 3318.0 | 4461.8 | 5037.2 | 4255.7 | 4194.3 | 3860.1 | 3958.4 |
| 60° | 1578.0 | 1557.7 | 1598.3 | 1887.8 | 2837.9 | 4467.7 | 5843.8 | 5149.2 | 5046.7 | 4358.1 | 4440.3 |
| 62.5° | 1184.2 | 1164.0 | 1172.9 | 1254.5 | 1924.1 | 4106.7 | 6303.7 | 6371.6 | 6202.4 | 4920.5 | 4904.4 |
| 65° | 935.8 | 924.5 | 950.1 | 1006.1 | 1121.7 | 3127.4 | 6307.2 | 7693.4 | 7586.8 | 5572.1 | 5380.3 |
| 67.5° | 762.5 | 755.3 | 781.6 | 885.2 | 909.6 | 1680.5 | 5655.5 | 8310.6 | 8352.3 | 6285.8 | 5821.7 |
| 70° | 614.2 | 603.4 | 644.5 | 781.0 | 845.9 | 1016.9 | 4051.3 | 7996.0 | 8063.4 | 6711.1 | 5697.2 |
| 72.5° | 424.1 | 424.7 | 445.6 | 632.6 | 816.7 | 878.1 | 2291.6 | 6658.1 | 6804.0 | 6325.7 | 5008.6 |
| 75° | 285.9 | 288.3 | 294.3 | 417.6 | 752.4 | 851.8 | 1221.2 | 5040.8 | 5143.8 | 5228.4 | 4140.1 |
| 77.5° | 172.8 | 173.9 | 187.6 | 252.6 | 518.9 | 795.3 | 827.4 | 3654.0 | 3735.0 | 3446.7 | 2566.3 |
| 80° | 100.1 | 104.2 | 116.8 | 169.2 | 350.3 | 597.5 | 640.4 | 2240.4 | 2332.2 | 1532.1 | 815.5 |
| 82.5° | 44.1 | 47.1 | 63.7 | 98.3 | 204.3 | 508.1 | 499.8 | 885.2 | 872.1 | 427.1 | 283.0 |
| 85° | 7.7 | 9.5 | 13.7 | 31.0 | 75.1 | 268.1 | 387.8 | 390.8 | 367.5 | 162.0 | 117.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 58.4 | 104.8 | 104.2 | 45.9 | 40.5 |
| 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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 CATALOG NUMBER: GWS-SA1F-735-U-SL2-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 | 1804.4 |
| 2.5° | 1813.3 | 1797.2 | 1811.5 | 1813.3 | 1810.3 | 1807.9 | 1790.1 | 1774.6 | 1772.8 | 1756.1 | 1756.1 |
| 5° | 1819.9 | 1805.0 | 1812.1 | 1798.4 | 1777.0 | 1754.9 | 1716.8 | 1690.6 | 1678.7 | 1657.2 | 1657.2 |
| 7.5° | 1828.8 | 1813.3 | 1805.0 | 1771.0 | 1721.0 | 1672.7 | 1611.4 | 1560.1 | 1539.3 | 1508.9 | 1507.7 |
| 10° | 1837.1 | 1817.5 | 1788.9 | 1722.8 | 1642.9 | 1566.1 | 1476.7 | 1404.1 | 1354.6 | 1318.3 | 1318.3 |
| 12.5° | 1836.5 | 1810.9 | 1754.3 | 1656.6 | 1546.4 | 1435.0 | 1315.9 | 1206.3 | 1140.8 | 1084.2 | 1080.6 |
| 15° | 1835.3 | 1800.2 | 1710.2 | 1579.8 | 1433.8 | 1279.6 | 1117.5 | 974.6 | 877.5 | 822.1 | 817.3 |
| 17.5° | 1834.2 | 1786.5 | 1660.8 | 1492.2 | 1296.8 | 1086.6 | 872.7 | 717.8 | 636.8 | 602.8 | 604.0 |
| 20° | 1834.2 | 1771.0 | 1607.8 | 1391.5 | 1139.0 | 855.4 | 640.4 | 527.8 | 507.5 | 509.3 | 511.1 |
| 22.5° | 1828.8 | 1751.9 | 1548.8 | 1281.9 | 963.2 | 629.1 | 472.4 | 434.3 | 445.0 | 461.7 | 464.0 |
| 25° | 1816.3 | 1720.4 | 1480.3 | 1160.4 | 754.2 | 458.1 | 385.4 | 378.3 | 397.9 | 418.8 | 424.7 |
| 27.5° | 1796.6 | 1684.0 | 1403.5 | 1018.0 | 555.2 | 368.1 | 339.0 | 338.4 | 353.8 | 369.3 | 374.7 |
| 30° | 1775.8 | 1643.5 | 1322.4 | 859.6 | 402.1 | 320.5 | 309.2 | 309.2 | 316.9 | 326.4 | 325.3 |
| 32.5° | 1751.3 | 1602.4 | 1235.5 | 694.6 | 327.6 | 293.7 | 290.1 | 288.3 | 289.5 | 293.1 | 293.1 |
| 35° | 1730.5 | 1566.1 | 1146.1 | 520.0 | 293.7 | 278.8 | 275.2 | 271.0 | 269.3 | 266.9 | 268.1 |
| 37.5° | 1722.8 | 1537.5 | 1053.8 | 392.0 | 277.0 | 268.1 | 262.1 | 256.1 | 252.0 | 250.8 | 250.2 |
| 40° | 1735.3 | 1525.6 | 961.5 | 322.9 | 265.1 | 256.7 | 250.2 | 242.4 | 238.9 | 238.9 | 238.9 |
| 42.5° | 1784.1 | 1534.5 | 867.3 | 291.9 | 256.7 | 247.2 | 237.7 | 230.5 | 229.3 | 230.5 | 231.1 |
| 45° | 1873.5 | 1569.1 | 769.6 | 276.4 | 249.6 | 237.7 | 226.4 | 221.0 | 221.0 | 222.2 | 222.2 |
| 47.5° | 2033.1 | 1659.6 | 673.1 | 266.9 | 242.4 | 229.9 | 218.0 | 212.7 | 212.1 | 213.3 | 213.3 |
| 50° | 2309.5 | 1822.8 | 586.2 | 260.3 | 237.1 | 224.0 | 212.1 | 204.9 | 203.1 | 202.5 | 202.5 |
| 52.5° | 2658.0 | 2105.8 | 530.8 | 255.6 | 230.5 | 217.4 | 205.5 | 196.0 | 192.4 | 190.6 | 190.6 |
| 55° | 3079.2 | 2482.9 | 530.8 | 252.0 | 222.2 | 209.7 | 196.0 | 186.5 | 181.1 | 178.7 | 178.7 |
| 57.5° | 3556.3 | 2921.9 | 622.5 | 249.0 | 215.6 | 200.7 | 185.9 | 176.3 | 170.4 | 166.8 | 166.8 |
| 60° | 4041.8 | 3385.9 | 849.5 | 244.8 | 209.7 | 189.4 | 174.5 | 165.6 | 157.9 | 153.7 | 153.1 |
| 62.5° | 4545.2 | 3897.0 | 1148.5 | 247.2 | 205.5 | 178.7 | 162.6 | 152.5 | 145.9 | 141.8 | 141.2 |
| 65° | 5006.2 | 4383.7 | 1410.0 | 265.7 | 206.1 | 169.2 | 148.9 | 140.0 | 134.6 | 129.3 | 128.7 |
| 67.5° | 5397.6 | 4652.4 | 1226.5 | 303.2 | 218.6 | 157.9 | 135.2 | 126.3 | 121.5 | 117.9 | 117.4 |
| 70° | 5123.6 | 4242.6 | 695.8 | 326.4 | 235.9 | 145.9 | 119.7 | 113.8 | 109.0 | 106.6 | 106.0 |
| 72.5° | 4381.4 | 3592.1 | 465.2 | 288.3 | 215.0 | 130.5 | 105.4 | 100.7 | 97.1 | 94.1 | 93.5 |
| 75° | 3549.2 | 2848.6 | 355.6 | 236.5 | 167.4 | 106.0 | 90.5 | 87.0 | 83.4 | 80.4 | 79.8 |
| 77.5° | 2099.8 | 1645.9 | 262.1 | 187.0 | 117.9 | 82.8 | 75.1 | 72.1 | 68.5 | 66.1 | 65.5 |
| 80° | 670.2 | 571.9 | 166.2 | 128.7 | 78.0 | 63.7 | 57.8 | 55.4 | 51.8 | 48.8 | 48.3 |
| 82.5° | 255.6 | 221.0 | 88.2 | 65.5 | 51.8 | 43.5 | 38.7 | 36.3 | 34.0 | 31.0 | 30.4 |
| 85° | 113.2 | 106.0 | 48.8 | 35.1 | 28.0 | 21.4 | 19.1 | 17.9 | 14.9 | 12.5 | 11.9 |
| 87.5° | 39.9 | 39.9 | 20.8 | 10.1 | 6.0 | 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)