

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: P635402

Luminaire Tested: GWS-SA3D-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-760-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16640.4 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

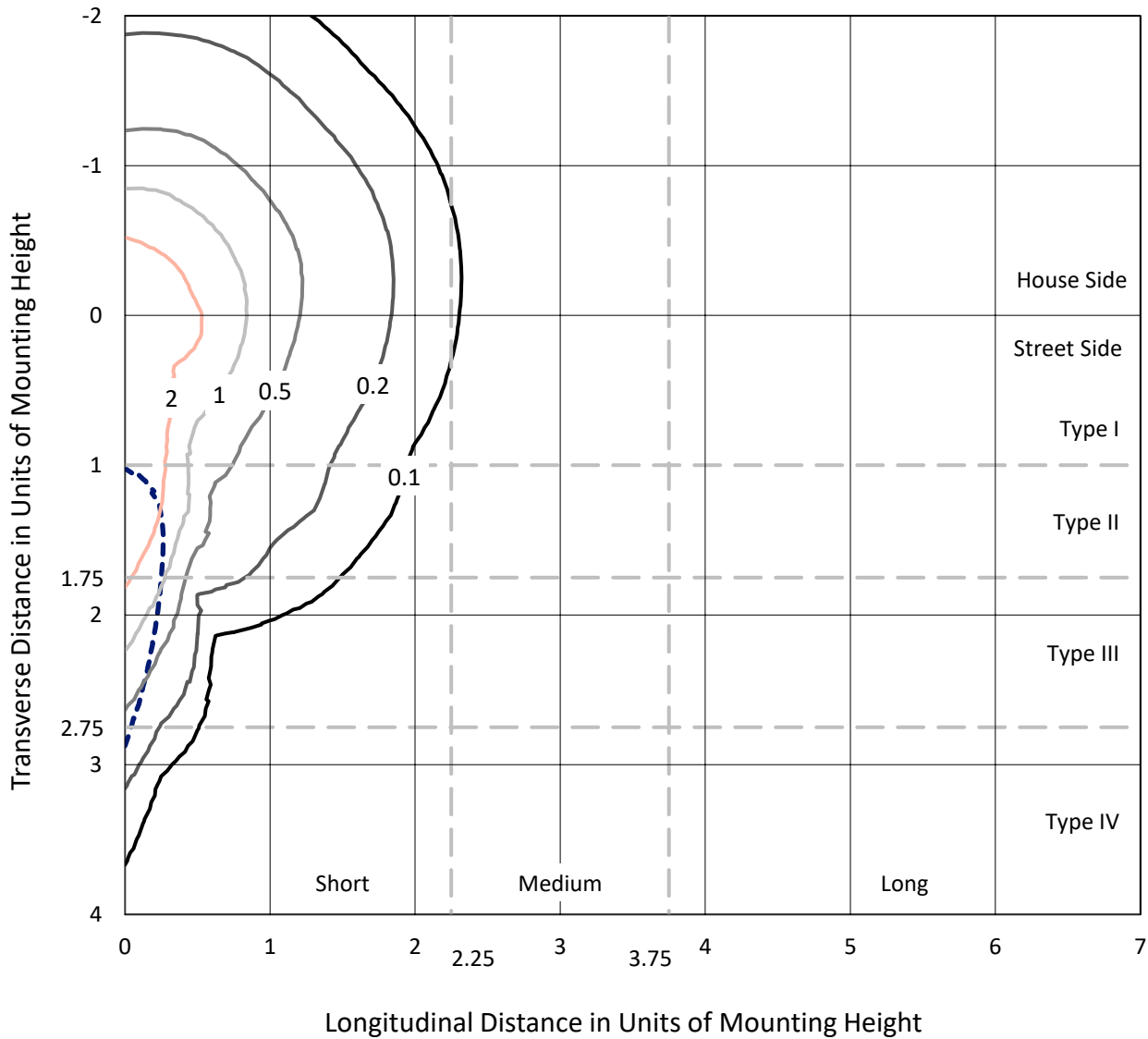
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635402
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Iso-Footcandle Lines of Horizontal Illumination

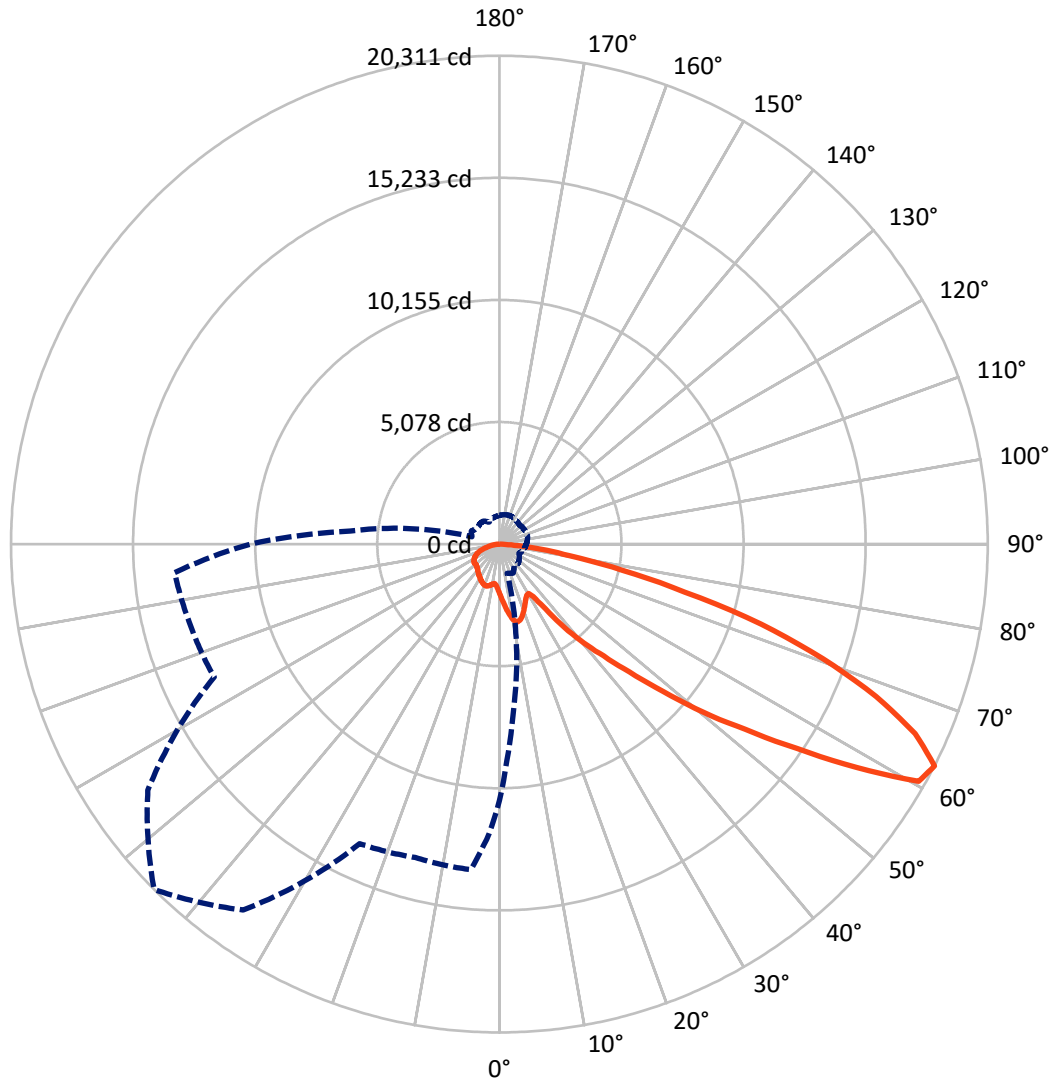
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

REPORT NUMBER: P635402
CATALOG NUMBER: GWS-SA3D-760-U-SLL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: GWS-SA3D-760-U-SLL-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3978.7 | 0.0 | 3978.7 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 12661.7 | 0.0 | 12661.7 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 16640.4 | 0.0 | 16640.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 204.4 | 1.2 |
| 10°-20° | 664.3 | 4.0 |
| 20°-30° | 1045.7 | 6.3 |
| 30°-40° | 1433.3 | 8.6 |
| 40°-50° | 2236.5 | 13.4 |
| 50°-60° | 3856.1 | 23.2 |
| 60°-70° | 4468.7 | 26.9 |
| 70°-80° | 2358.8 | 14.2 |
| 80°-90° | 372.6 | 2.2 |
| 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° | 16640.4 | 100.0 |
| 0°-180° | 16640.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P635402

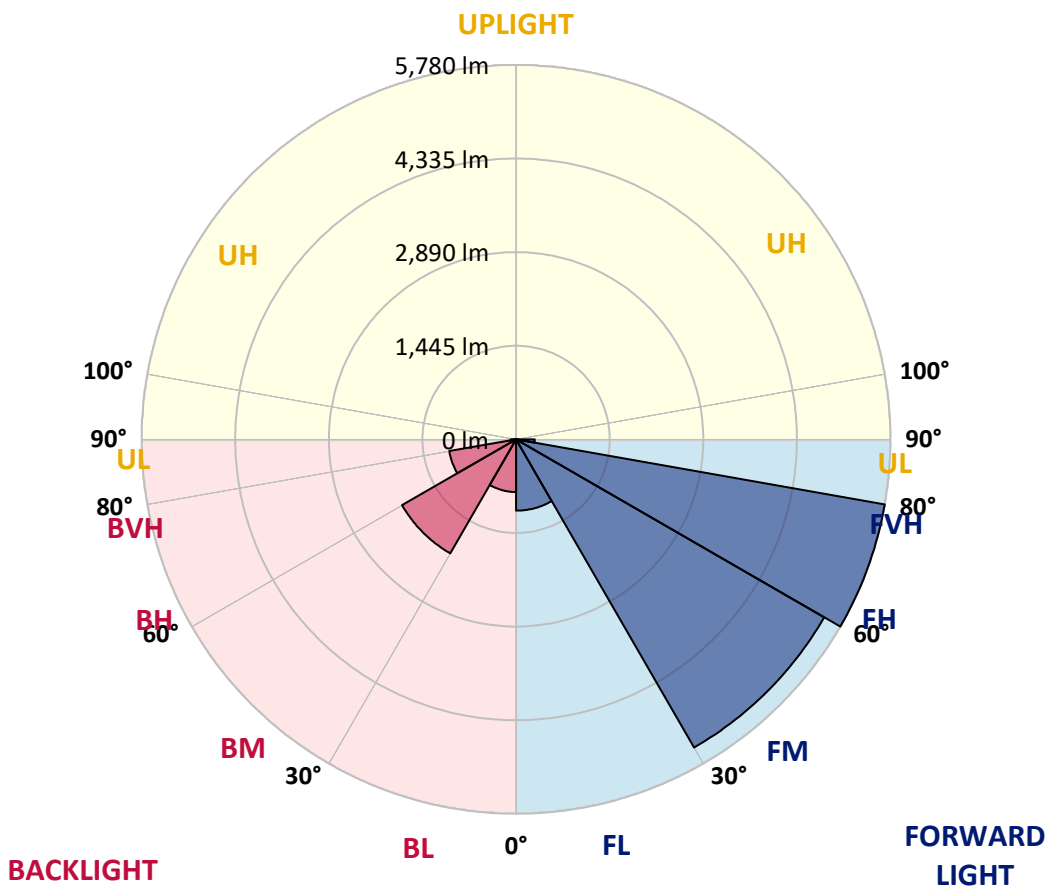
CATALOG NUMBER: GWS-SA3D-760-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1100.6 | 6.6 | | | |
| FM (30°-60°) | 5493.6 | 33.0 | | | |
| FH (60°-80°) | 5779.9 | 34.7 | | | G3/7500 |
| FVH (80°-90°) | 287.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 813.8 | 4.9 | B2/1000 | | |
| BM (30°-60°) | 2032.3 | 12.2 | B2/2500 | | |
| BH (60°-80°) | 1047.6 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 85.0 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P635402
 CATALOG NUMBER: GWS-SA3D-760-U-SLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 |
| 2.5° | 2254.2 | 2245.3 | 2232.5 | 2189.3 | 2162.5 | 2132.0 | 2100.2 | 2063.3 | 2021.3 | 1992.0 | 1962.7 |
| 5° | 2445.1 | 2431.1 | 2400.6 | 2297.5 | 2226.2 | 2148.5 | 2083.6 | 2009.8 | 1937.2 | 1887.6 | 1838.0 |
| 7.5° | 2628.4 | 2610.6 | 2563.5 | 2405.6 | 2289.8 | 2177.8 | 2079.8 | 1972.9 | 1864.7 | 1790.9 | 1732.3 |
| 10° | 2811.7 | 2774.8 | 2714.9 | 2508.7 | 2356.0 | 2226.2 | 2114.2 | 1983.1 | 1839.2 | 1738.7 | 1676.3 |
| 12.5° | 2951.7 | 2917.3 | 2852.4 | 2602.9 | 2422.2 | 2259.3 | 2133.3 | 2012.3 | 1890.2 | 1783.2 | 1719.6 |
| 15° | 3082.8 | 3038.2 | 2964.4 | 2690.8 | 2476.9 | 2258.0 | 2095.1 | 1989.4 | 1971.6 | 1944.9 | 1862.2 |
| 17.5° | 3177.0 | 3136.3 | 3059.9 | 2762.0 | 2507.5 | 2218.5 | 1989.4 | 1927.1 | 2007.3 | 2088.7 | 2009.8 |
| 20° | 3259.7 | 3212.6 | 3135.0 | 2811.7 | 2513.8 | 2130.7 | 1860.9 | 1862.2 | 1988.2 | 2100.2 | 2081.1 |
| 22.5° | 3329.7 | 3277.5 | 3208.8 | 2867.7 | 2511.3 | 2008.5 | 1748.9 | 1825.2 | 1951.2 | 2039.1 | 2041.6 |
| 25° | 3416.3 | 3373.0 | 3315.7 | 2950.4 | 2511.3 | 1883.8 | 1667.4 | 1780.7 | 1888.9 | 1962.7 | 1960.2 |
| 27.5° | 3521.9 | 3492.6 | 3445.6 | 3076.4 | 2534.2 | 1779.4 | 1621.6 | 1723.4 | 1808.7 | 1872.3 | 1871.1 |
| 30° | 3640.3 | 3613.6 | 3577.9 | 3210.1 | 2573.7 | 1701.8 | 1596.1 | 1652.1 | 1714.5 | 1765.4 | 1765.4 |
| 32.5° | 3761.2 | 3751.0 | 3712.8 | 3317.0 | 2543.1 | 1677.6 | 1574.5 | 1580.9 | 1613.9 | 1656.0 | 1652.1 |
| 35° | 3929.2 | 3919.0 | 3870.7 | 3399.7 | 2410.7 | 1643.2 | 1540.1 | 1508.3 | 1512.1 | 1538.9 | 1547.8 |
| 37.5° | 4174.9 | 4159.6 | 4088.3 | 3496.5 | 2210.9 | 1556.7 | 1484.1 | 1431.9 | 1420.5 | 1431.9 | 1448.5 |
| 40° | 4471.5 | 4448.5 | 4351.8 | 3627.6 | 1980.5 | 1439.6 | 1396.3 | 1353.0 | 1333.9 | 1337.7 | 1356.8 |
| 42.5° | 4843.1 | 4794.8 | 4656.0 | 3766.3 | 1752.7 | 1336.5 | 1298.3 | 1271.6 | 1249.9 | 1247.4 | 1284.3 |
| 45° | 5446.4 | 5314.1 | 5093.9 | 3889.8 | 1560.5 | 1281.7 | 1210.5 | 1191.4 | 1173.5 | 1183.7 | 1227.0 |
| 47.5° | 6500.3 | 6256.0 | 5827.0 | 3995.4 | 1443.4 | 1283.0 | 1140.5 | 1120.1 | 1118.8 | 1139.2 | 1187.6 |
| 50° | 7948.8 | 7596.3 | 6934.4 | 4066.7 | 1382.3 | 1298.3 | 1098.5 | 1065.4 | 1089.5 | 1109.9 | 1155.7 |
| 52.5° | 9336.2 | 8797.8 | 8009.9 | 4065.4 | 1355.6 | 1300.8 | 1109.9 | 1014.4 | 1089.5 | 1094.6 | 1137.9 |
| 55° | 10521.2 | 9546.2 | 8300.1 | 3647.9 | 1317.4 | 1290.6 | 1154.5 | 975.0 | 1075.5 | 1094.6 | 1129.0 |
| 57.5° | 11463.1 | 10022.3 | 8278.5 | 2946.6 | 1433.2 | 1234.6 | 1181.2 | 966.1 | 1034.8 | 1097.2 | 1136.6 |
| 60° | 11358.7 | 9804.6 | 7745.2 | 1808.7 | 1421.8 | 1135.4 | 1177.4 | 982.6 | 966.1 | 1062.8 | 1127.7 |
| 62.5° | 10665.0 | 9024.4 | 6827.5 | 1255.0 | 1335.2 | 1078.1 | 1115.0 | 1011.9 | 902.4 | 1013.2 | 1084.5 |
| 65° | 9693.9 | 8017.6 | 5689.6 | 962.3 | 1106.1 | 1080.6 | 1009.4 | 991.5 | 846.4 | 934.3 | 1010.6 |
| 67.5° | 8409.6 | 6768.9 | 4491.8 | 762.4 | 771.3 | 935.5 | 916.4 | 880.8 | 794.2 | 864.3 | 933.0 |
| 70° | 6322.1 | 4939.9 | 3090.4 | 613.5 | 584.2 | 781.5 | 823.5 | 791.7 | 743.3 | 763.7 | 836.2 |
| 72.5° | 4454.9 | 3225.4 | 1692.9 | 486.2 | 450.6 | 600.8 | 715.3 | 710.2 | 656.8 | 672.1 | 743.3 |
| 75° | 3310.6 | 2282.2 | 1057.7 | 384.4 | 366.6 | 430.2 | 599.5 | 614.8 | 570.2 | 588.0 | 642.8 |
| 77.5° | 2203.3 | 1477.8 | 588.0 | 285.1 | 285.1 | 314.4 | 446.8 | 518.0 | 484.9 | 498.9 | 537.1 |
| 80° | 1215.6 | 752.2 | 294.0 | 187.1 | 192.2 | 216.4 | 325.8 | 372.9 | 374.2 | 408.6 | 418.8 |
| 82.5° | 384.4 | 239.3 | 131.1 | 109.5 | 103.1 | 123.5 | 210.0 | 267.3 | 249.5 | 318.2 | 292.8 |
| 85° | 87.8 | 56.0 | 24.2 | 24.2 | 26.7 | 40.7 | 80.2 | 142.6 | 182.0 | 218.9 | 159.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 56.0 | 82.7 | 73.8 |
| 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: P635402
 CATALOG NUMBER: GWS-SA3D-760-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 |
| 2.5° | 1944.9 | 1919.4 | 1911.8 | 1890.2 | 1887.6 | 1867.2 | 1859.6 | 1859.6 | 1868.5 | 1868.5 | 1877.4 |
| 5° | 1817.6 | 1785.8 | 1768.0 | 1742.5 | 1736.1 | 1720.9 | 1710.7 | 1712.0 | 1723.4 | 1731.0 | 1746.3 |
| 7.5° | 1705.6 | 1684.0 | 1671.2 | 1659.8 | 1657.2 | 1654.7 | 1643.2 | 1642.0 | 1645.8 | 1657.2 | 1668.7 |
| 10° | 1658.5 | 1643.2 | 1647.0 | 1656.0 | 1670.0 | 1677.6 | 1667.4 | 1662.3 | 1658.5 | 1666.1 | 1676.3 |
| 12.5° | 1704.3 | 1689.0 | 1696.7 | 1712.0 | 1731.0 | 1738.7 | 1734.9 | 1733.6 | 1737.4 | 1766.7 | 1788.3 |
| 15° | 1804.9 | 1775.6 | 1765.4 | 1771.8 | 1787.1 | 1794.7 | 1790.9 | 1796.0 | 1820.1 | 1896.5 | 1951.2 |
| 17.5° | 1929.6 | 1858.3 | 1817.6 | 1806.1 | 1812.5 | 1818.9 | 1818.9 | 1831.6 | 1873.6 | 1985.6 | 2054.3 |
| 20° | 1997.1 | 1904.2 | 1835.4 | 1807.4 | 1810.0 | 1816.3 | 1816.3 | 1834.1 | 1881.2 | 2000.9 | 2045.4 |
| 22.5° | 1979.3 | 1894.0 | 1810.0 | 1779.4 | 1780.7 | 1785.8 | 1785.8 | 1801.1 | 1843.1 | 1948.7 | 1969.1 |
| 25° | 1909.2 | 1834.1 | 1751.4 | 1724.7 | 1727.2 | 1736.1 | 1733.6 | 1742.5 | 1774.3 | 1860.9 | 1872.3 |
| 27.5° | 1825.2 | 1759.1 | 1677.6 | 1657.2 | 1668.7 | 1686.5 | 1671.2 | 1672.5 | 1701.8 | 1774.3 | 1775.6 |
| 30° | 1734.9 | 1680.1 | 1607.6 | 1592.3 | 1613.9 | 1622.9 | 1608.9 | 1608.9 | 1638.1 | 1687.8 | 1686.5 |
| 32.5° | 1636.9 | 1602.5 | 1550.3 | 1533.8 | 1557.9 | 1571.9 | 1554.1 | 1556.7 | 1579.6 | 1612.7 | 1599.9 |
| 35° | 1545.2 | 1527.4 | 1503.2 | 1491.8 | 1507.0 | 1519.8 | 1508.3 | 1513.4 | 1535.0 | 1543.9 | 1526.1 |
| 37.5° | 1457.4 | 1454.8 | 1457.4 | 1457.4 | 1461.2 | 1465.0 | 1457.4 | 1470.1 | 1489.2 | 1477.8 | 1457.4 |
| 40° | 1381.0 | 1391.2 | 1415.4 | 1409.0 | 1405.2 | 1409.0 | 1403.9 | 1425.6 | 1444.7 | 1424.3 | 1400.1 |
| 42.5° | 1317.4 | 1336.5 | 1373.4 | 1373.4 | 1365.7 | 1368.3 | 1365.7 | 1392.5 | 1406.5 | 1378.5 | 1351.7 |
| 45° | 1262.6 | 1290.6 | 1337.7 | 1344.1 | 1331.4 | 1331.4 | 1336.5 | 1369.6 | 1374.7 | 1336.5 | 1308.5 |
| 47.5° | 1224.5 | 1258.8 | 1312.3 | 1323.7 | 1304.7 | 1303.4 | 1317.4 | 1353.0 | 1353.0 | 1308.5 | 1276.6 |
| 50° | 1197.7 | 1235.9 | 1299.6 | 1314.8 | 1295.7 | 1290.6 | 1313.6 | 1347.9 | 1340.3 | 1286.8 | 1255.0 |
| 52.5° | 1179.9 | 1219.4 | 1298.3 | 1319.9 | 1307.2 | 1302.1 | 1325.0 | 1349.2 | 1330.1 | 1272.8 | 1239.7 |
| 55° | 1168.5 | 1211.7 | 1302.1 | 1319.9 | 1305.9 | 1297.0 | 1319.9 | 1341.6 | 1331.4 | 1265.2 | 1233.4 |
| 57.5° | 1174.8 | 1218.1 | 1297.0 | 1305.9 | 1289.4 | 1274.1 | 1300.8 | 1331.4 | 1327.6 | 1267.7 | 1235.9 |
| 60° | 1164.6 | 1204.1 | 1269.0 | 1271.6 | 1243.6 | 1219.4 | 1258.8 | 1304.7 | 1304.7 | 1258.8 | 1230.8 |
| 62.5° | 1117.5 | 1157.0 | 1214.3 | 1216.8 | 1185.0 | 1158.3 | 1204.1 | 1258.8 | 1257.6 | 1220.6 | 1191.4 |
| 65° | 1039.9 | 1076.8 | 1141.7 | 1148.1 | 1116.3 | 1088.3 | 1135.4 | 1186.3 | 1190.1 | 1157.0 | 1131.5 |
| 67.5° | 954.6 | 987.7 | 1036.1 | 1061.5 | 1034.8 | 1005.5 | 1048.8 | 1097.2 | 1095.9 | 1056.4 | 1029.7 |
| 70° | 852.8 | 883.3 | 927.9 | 949.5 | 933.0 | 905.0 | 944.4 | 969.9 | 958.4 | 939.3 | 921.5 |
| 72.5° | 752.2 | 781.5 | 823.5 | 823.5 | 805.7 | 779.0 | 790.4 | 836.2 | 850.3 | 836.2 | 824.8 |
| 75° | 646.6 | 672.1 | 701.3 | 707.7 | 668.2 | 619.9 | 673.3 | 712.8 | 729.3 | 723.0 | 709.0 |
| 77.5° | 538.4 | 557.5 | 600.8 | 589.3 | 515.5 | 490.0 | 533.3 | 591.9 | 603.3 | 599.5 | 580.4 |
| 80° | 414.9 | 426.4 | 472.2 | 449.3 | 392.0 | 375.5 | 394.6 | 440.4 | 442.9 | 430.2 | 406.0 |
| 82.5° | 278.7 | 294.0 | 324.6 | 280.0 | 278.7 | 263.5 | 248.2 | 253.3 | 276.2 | 273.7 | 257.1 |
| 85° | 142.6 | 150.2 | 179.5 | 168.0 | 143.8 | 124.7 | 118.4 | 126.0 | 113.3 | 103.1 | 89.1 |
| 87.5° | 59.8 | 64.9 | 89.1 | 49.6 | 15.3 | 0.0 | 0.0 | 7.6 | 11.5 | 16.5 | 17.8 |
| 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-SA3D-760-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 |
| 2.5° | 1897.8 | 1911.8 | 1946.2 | 1989.4 | 2031.4 | 2074.7 | 2121.8 | 2151.1 | 2186.7 | 2232.5 | 2233.8 |
| 5° | 1765.4 | 1797.2 | 1846.9 | 1913.1 | 1981.8 | 2060.7 | 2152.4 | 2228.7 | 2320.4 | 2392.9 | 2422.2 |
| 7.5° | 1684.0 | 1729.8 | 1792.1 | 1876.2 | 1966.5 | 2064.5 | 2184.2 | 2312.7 | 2462.9 | 2559.7 | 2616.9 |
| 10° | 1691.6 | 1761.6 | 1824.0 | 1895.2 | 1976.7 | 2082.4 | 2236.4 | 2406.9 | 2591.5 | 2718.8 | 2790.0 |
| 12.5° | 1827.8 | 1901.6 | 1890.2 | 1886.3 | 1941.1 | 2069.6 | 2278.4 | 2502.4 | 2727.7 | 2855.0 | 2940.2 |
| 15° | 1999.6 | 2027.6 | 1919.4 | 1838.0 | 1871.1 | 2023.8 | 2301.3 | 2587.7 | 2841.0 | 2996.2 | 3080.2 |
| 17.5° | 2087.4 | 2031.4 | 1900.3 | 1778.1 | 1769.2 | 1953.8 | 2312.7 | 2674.2 | 2968.2 | 3123.5 | 3212.6 |
| 20° | 2046.7 | 1965.2 | 1854.5 | 1738.7 | 1675.0 | 1858.3 | 2306.4 | 2742.9 | 3084.1 | 3257.2 | 3329.7 |
| 22.5° | 1958.9 | 1887.6 | 1801.1 | 1690.3 | 1598.7 | 1754.0 | 2289.8 | 2811.7 | 3187.2 | 3361.5 | 3425.2 |
| 25° | 1863.4 | 1810.0 | 1738.7 | 1642.0 | 1555.4 | 1662.3 | 2278.4 | 2903.3 | 3305.5 | 3472.3 | 3513.0 |
| 27.5° | 1768.0 | 1728.5 | 1670.0 | 1594.9 | 1545.2 | 1598.7 | 2282.2 | 3023.0 | 3458.3 | 3616.1 | 3599.6 |
| 30° | 1673.8 | 1639.4 | 1598.7 | 1565.6 | 1543.9 | 1583.4 | 2272.0 | 3150.3 | 3626.3 | 3772.7 | 3674.7 |
| 32.5° | 1584.7 | 1552.9 | 1527.4 | 1532.5 | 1545.2 | 1589.8 | 2219.8 | 3266.1 | 3780.3 | 3905.0 | 3756.1 |
| 35° | 1508.3 | 1475.2 | 1475.2 | 1493.0 | 1540.1 | 1568.1 | 2084.9 | 3356.5 | 3950.9 | 4075.6 | 3871.9 |
| 37.5° | 1437.0 | 1407.8 | 1426.8 | 1456.1 | 1500.7 | 1509.6 | 1911.8 | 3444.3 | 4199.1 | 4316.2 | 4051.4 |
| 40° | 1374.7 | 1345.4 | 1379.7 | 1416.7 | 1439.6 | 1435.8 | 1736.1 | 3566.5 | 4491.8 | 4612.7 | 4289.4 |
| 42.5° | 1325.0 | 1298.3 | 1328.8 | 1375.9 | 1379.7 | 1383.6 | 1607.6 | 3683.6 | 4831.7 | 4985.7 | 4699.3 |
| 45° | 1284.3 | 1265.2 | 1280.5 | 1327.6 | 1327.6 | 1386.1 | 1527.4 | 3781.6 | 5343.3 | 5615.7 | 5451.5 |
| 47.5° | 1252.5 | 1241.0 | 1248.6 | 1263.9 | 1289.4 | 1431.9 | 1476.5 | 3856.7 | 6275.1 | 6809.6 | 6644.2 |
| 50° | 1234.6 | 1223.2 | 1233.4 | 1201.6 | 1277.9 | 1454.8 | 1459.9 | 3914.0 | 7503.3 | 8340.9 | 8135.9 |
| 52.5° | 1219.4 | 1215.6 | 1221.9 | 1148.1 | 1303.4 | 1439.6 | 1447.2 | 3837.6 | 8326.9 | 9847.9 | 10050.3 |
| 55° | 1214.3 | 1216.8 | 1186.3 | 1108.6 | 1333.9 | 1388.7 | 1409.0 | 3291.5 | 8550.9 | 11147.4 | 12403.7 |
| 57.5° | 1216.8 | 1209.2 | 1131.5 | 1112.5 | 1335.2 | 1286.8 | 1463.8 | 2348.4 | 8225.0 | 11712.6 | 14706.3 |
| 60° | 1207.9 | 1169.7 | 1065.4 | 1146.8 | 1276.6 | 1167.2 | 1424.3 | 1531.2 | 7365.9 | 11278.5 | 14839.9 |
| 62.5° | 1168.5 | 1112.5 | 1008.1 | 1165.9 | 1172.3 | 1095.9 | 1293.2 | 1179.9 | 6220.3 | 10349.4 | 13551.8 |
| 65° | 1111.2 | 1036.1 | 959.7 | 1126.5 | 1066.6 | 1062.8 | 972.4 | 945.7 | 5002.2 | 9243.3 | 12329.9 |
| 67.5° | 1017.0 | 941.9 | 924.1 | 1036.1 | 959.7 | 941.9 | 781.5 | 784.1 | 3991.6 | 8064.7 | 11101.6 |
| 70° | 910.1 | 835.0 | 849.0 | 936.8 | 854.1 | 782.8 | 632.6 | 653.0 | 3028.1 | 6719.3 | 9445.7 |
| 72.5° | 840.1 | 739.5 | 740.8 | 824.8 | 751.0 | 633.9 | 520.6 | 538.4 | 1922.0 | 5064.6 | 7509.7 |
| 75° | 709.0 | 651.7 | 623.7 | 668.2 | 637.7 | 493.9 | 437.9 | 434.0 | 1139.2 | 3630.1 | 5623.4 |
| 77.5° | 591.9 | 547.3 | 533.3 | 551.1 | 476.0 | 365.3 | 352.6 | 346.2 | 645.3 | 2325.5 | 3684.8 |
| 80° | 428.9 | 417.5 | 416.2 | 425.1 | 366.6 | 268.6 | 268.6 | 269.8 | 347.5 | 1262.6 | 2077.3 |
| 82.5° | 272.4 | 297.8 | 263.5 | 292.8 | 249.5 | 190.9 | 178.2 | 202.4 | 199.8 | 538.4 | 875.7 |
| 85° | 113.3 | 155.3 | 145.1 | 154.0 | 118.4 | 104.4 | 112.0 | 120.9 | 115.8 | 207.5 | 341.1 |
| 87.5° | 21.6 | 25.5 | 28.0 | 26.7 | 26.7 | 33.1 | 36.9 | 44.5 | 44.5 | 59.8 | 103.1 |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 | 2074.7 |
| 2.5° | 2282.2 | 2319.1 | 2311.5 | 2328.0 | 2306.4 | 2314.0 | 2270.7 | 2259.3 | 2251.6 | 2254.2 |
| 5° | 2516.4 | 2591.5 | 2605.5 | 2633.5 | 2614.4 | 2614.4 | 2538.0 | 2480.7 | 2460.4 | 2445.1 |
| 7.5° | 2754.4 | 2862.6 | 2933.9 | 2941.5 | 2931.3 | 2911.0 | 2800.2 | 2697.1 | 2660.2 | 2628.4 |
| 10° | 2965.7 | 3095.5 | 3175.7 | 3213.9 | 3194.8 | 3163.0 | 3025.5 | 2884.2 | 2839.7 | 2811.7 |
| 12.5° | 3127.3 | 3241.9 | 3295.4 | 3320.8 | 3318.3 | 3306.8 | 3194.8 | 3042.1 | 2995.0 | 2951.7 |
| 15° | 3231.7 | 3289.0 | 3268.6 | 3267.4 | 3285.2 | 3331.0 | 3296.6 | 3177.0 | 3122.3 | 3082.8 |
| 17.5° | 3299.2 | 3244.4 | 3154.1 | 3112.1 | 3150.3 | 3258.4 | 3337.4 | 3269.9 | 3220.3 | 3177.0 |
| 20° | 3323.4 | 3128.6 | 2997.5 | 2919.9 | 2964.4 | 3121.0 | 3315.7 | 3337.4 | 3295.4 | 3259.7 |
| 22.5° | 3295.4 | 2987.3 | 2809.1 | 2717.5 | 2760.8 | 2947.9 | 3252.1 | 3392.1 | 3364.1 | 3329.7 |
| 25° | 3226.6 | 2839.7 | 2625.8 | 2543.1 | 2590.2 | 2781.1 | 3138.8 | 3443.0 | 3444.3 | 3416.3 |
| 27.5° | 3141.3 | 2703.5 | 2497.3 | 2419.7 | 2465.5 | 2643.7 | 3028.1 | 3487.6 | 3532.1 | 3521.9 |
| 30° | 3054.8 | 2622.0 | 2436.2 | 2381.5 | 2415.8 | 2573.7 | 2914.8 | 3533.4 | 3622.5 | 3640.3 |
| 32.5° | 3015.3 | 2661.5 | 2580.0 | 2604.2 | 2559.7 | 2614.4 | 2874.1 | 3598.3 | 3731.9 | 3761.2 |
| 35° | 3067.5 | 3011.5 | 3217.7 | 3313.2 | 3155.3 | 2947.9 | 2926.2 | 3696.3 | 3886.0 | 3929.2 |
| 37.5° | 3320.8 | 3761.2 | 4069.2 | 4405.3 | 4131.6 | 3674.7 | 3184.6 | 3863.0 | 4106.2 | 4174.9 |
| 40° | 3871.9 | 4415.4 | 4971.7 | 5405.7 | 4992.0 | 4377.3 | 3675.9 | 4111.2 | 4409.1 | 4471.5 |
| 42.5° | 4391.3 | 5029.0 | 5795.2 | 6356.5 | 5819.4 | 4951.3 | 4205.4 | 4528.7 | 4808.8 | 4843.1 |
| 45° | 4900.4 | 5631.0 | 6791.8 | 7572.1 | 6842.7 | 5497.4 | 4746.4 | 5233.9 | 5445.2 | 5446.4 |
| 47.5° | 5497.4 | 6309.4 | 8041.7 | 9152.9 | 8200.8 | 6101.9 | 5254.2 | 6350.2 | 6644.2 | 6500.3 |
| 50° | 6211.4 | 6984.0 | 9328.6 | 10992.2 | 9856.8 | 6845.3 | 5899.6 | 7710.8 | 8111.7 | 7948.8 |
| 52.5° | 7167.3 | 7727.4 | 10746.5 | 12785.6 | 11661.7 | 7691.7 | 6835.1 | 9508.0 | 9640.4 | 9336.2 |
| 55° | 8512.7 | 8800.3 | 12566.7 | 15000.3 | 13676.6 | 8734.2 | 8203.4 | 11763.5 | 11393.1 | 10521.2 |
| 57.5° | 11576.4 | 10498.3 | 14903.6 | 17526.9 | 15956.2 | 10628.1 | 11202.2 | 14250.6 | 12933.2 | 11463.1 |
| 60° | 14139.9 | 12560.3 | 17066.1 | 20034.3 | 17910.0 | 12715.6 | 14017.7 | 14683.4 | 12876.0 | 11358.7 |
| 62.5° | 13275.6 | 13086.0 | 17846.4 | 20310.6 | 18577.0 | 13742.7 | 13494.5 | 13592.6 | 12035.9 | 10665.0 |
| 65° | 11647.7 | 12071.5 | 17150.1 | 19000.8 | 17837.4 | 12822.5 | 12206.4 | 12584.5 | 11074.9 | 9693.9 |
| 67.5° | 10686.7 | 10998.5 | 15911.7 | 16904.5 | 16493.3 | 11827.1 | 11204.7 | 10931.1 | 9583.1 | 8409.6 |
| 70° | 9704.1 | 9962.4 | 14173.0 | 14273.5 | 14397.0 | 10172.5 | 9161.8 | 8347.2 | 7143.1 | 6322.1 |
| 72.5° | 8385.4 | 8399.4 | 11974.8 | 11391.8 | 11626.0 | 7960.3 | 7374.8 | 6240.7 | 5199.5 | 4454.9 |
| 75° | 7034.9 | 6650.5 | 9478.8 | 7962.8 | 8432.5 | 6192.3 | 6123.6 | 4703.1 | 3921.6 | 3310.6 |
| 77.5° | 5363.7 | 4914.4 | 6924.2 | 5236.4 | 5922.5 | 4124.0 | 4603.8 | 3189.7 | 2759.5 | 2203.3 |
| 80° | 3600.8 | 3320.8 | 3826.1 | 2955.5 | 3874.5 | 2842.2 | 3002.6 | 1807.4 | 1566.9 | 1215.6 |
| 82.5° | 1899.1 | 1621.6 | 2364.9 | 1752.7 | 2336.9 | 1561.8 | 1126.5 | 558.8 | 476.0 | 384.4 |
| 85° | 735.7 | 851.5 | 1159.5 | 623.7 | 906.3 | 557.5 | 325.8 | 138.7 | 115.8 | 87.8 |
| 87.5° | 142.6 | 220.2 | 120.9 | 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 |

(END OF REPORT)