

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: P636392

Luminaire Tested: GWS-SA3F-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636392
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-SA3F-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: 23119.9 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

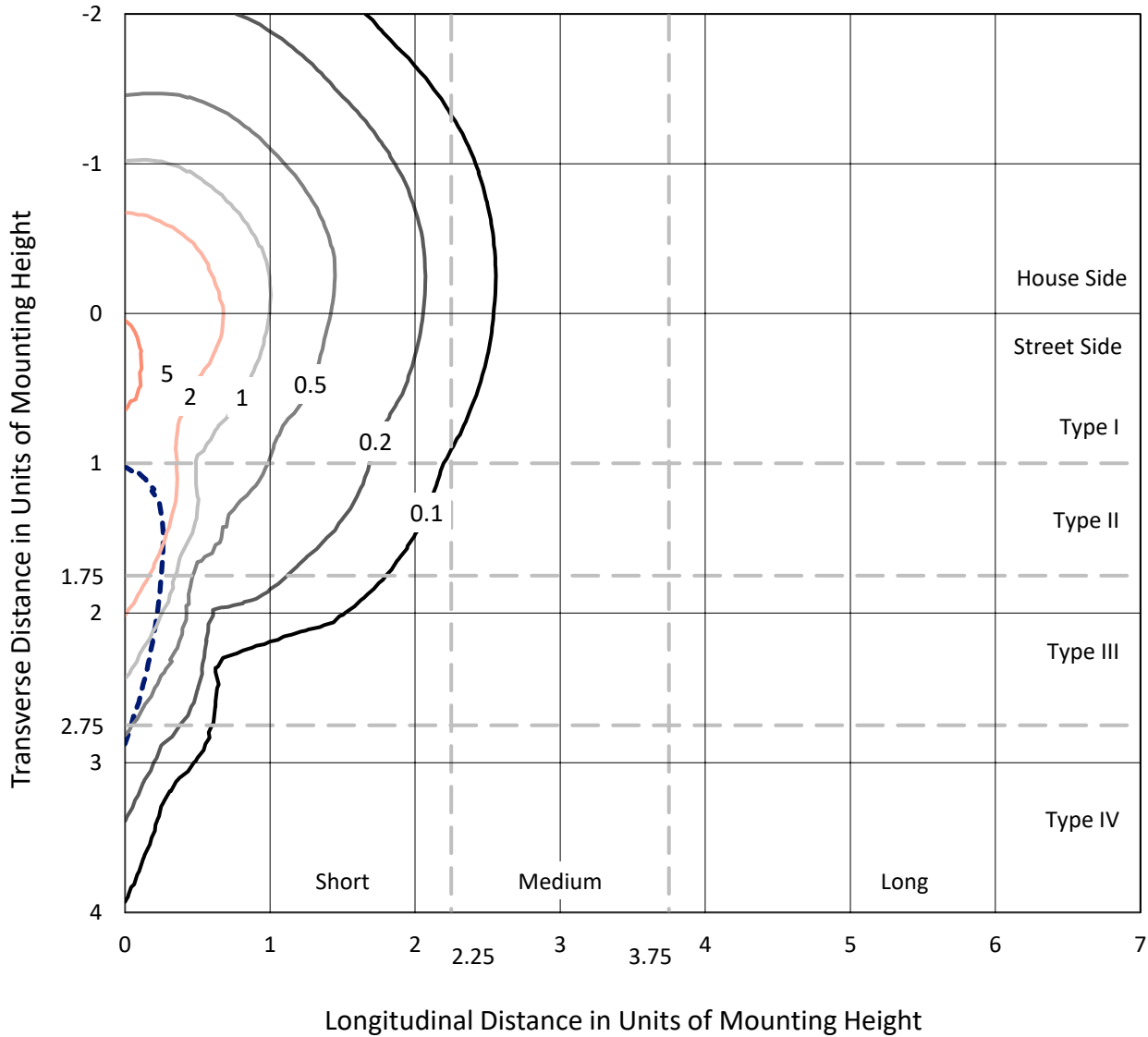
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636392
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Iso-Footcandle Lines of Horizontal Illumination

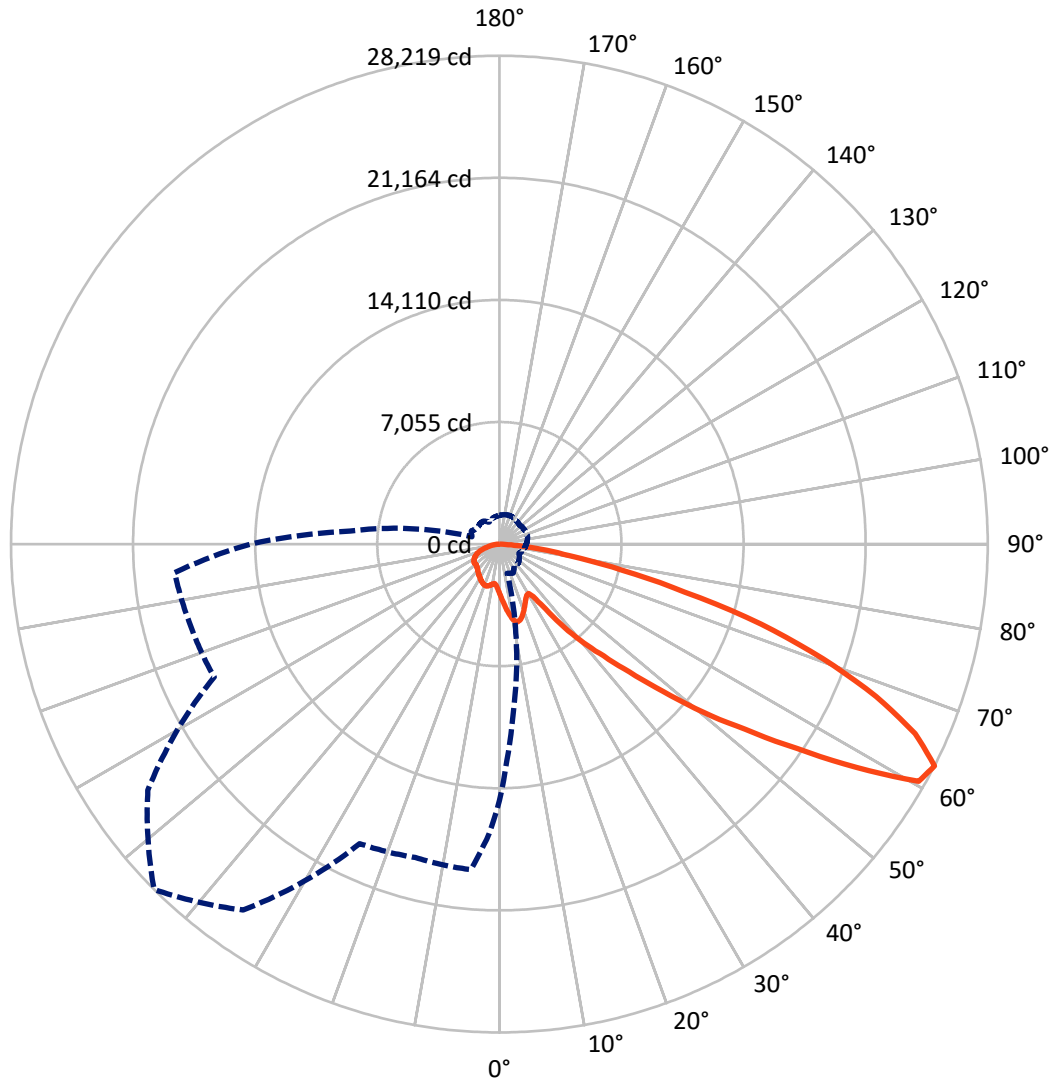
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5528.0 | 0.0 | 5528.0 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 17591.9 | 0.0 | 17591.9 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 23119.9 | 0.0 | 23119.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 284.0 | 1.2 |
| 10°-20° | 922.9 | 4.0 |
| 20°-30° | 1452.9 | 6.3 |
| 30°-40° | 1991.5 | 8.6 |
| 40°-50° | 3107.3 | 13.4 |
| 50°-60° | 5357.6 | 23.2 |
| 60°-70° | 6208.8 | 26.9 |
| 70°-80° | 3277.3 | 14.2 |
| 80°-90° | 517.7 | 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° | 23119.9 | 100.0 |
| 0°-180° | 23119.9 | 100.0 |

Coefficient of Utilization



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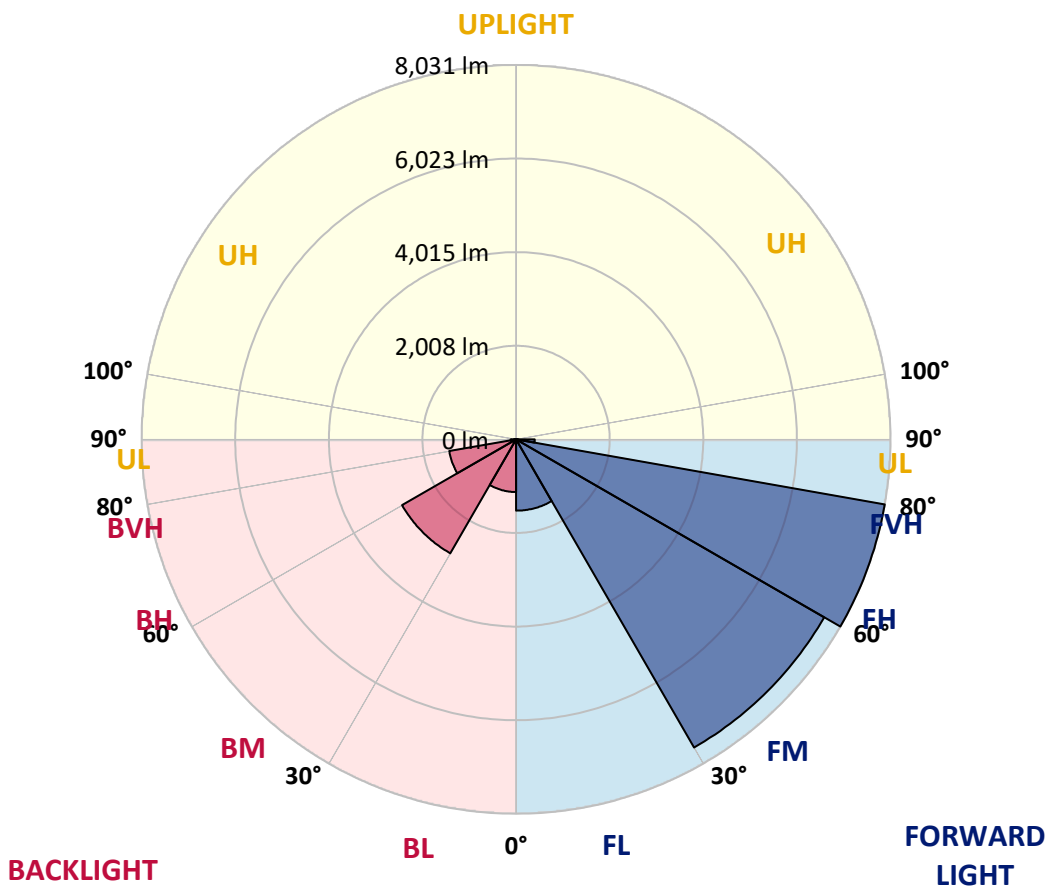
CATALOG NUMBER: GWS-SA3F-760-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1529.1 | 6.6 | | | |
| FM (30°-60°) | 7632.7 | 33.0 | | | |
| FH (60°-80°) | 8030.5 | 34.7 | | | G4/12000 |
| FVH (80°-90°) | 399.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1130.7 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 2823.7 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 1455.5 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 118.1 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 |
| 2.5° | 3131.9 | 3119.5 | 3101.9 | 3041.7 | 3004.6 | 2962.2 | 2917.9 | 2866.7 | 2808.3 | 2767.6 | 2726.9 |
| 5° | 3397.2 | 3377.7 | 3335.3 | 3192.1 | 3093.0 | 2985.1 | 2895.0 | 2792.4 | 2691.6 | 2622.6 | 2553.6 |
| 7.5° | 3651.8 | 3627.1 | 3561.7 | 3342.4 | 3181.4 | 3025.8 | 2889.6 | 2741.1 | 2590.8 | 2488.2 | 2406.9 |
| 10° | 3906.5 | 3855.2 | 3772.1 | 3485.6 | 3273.4 | 3093.0 | 2937.4 | 2755.2 | 2555.4 | 2415.7 | 2329.0 |
| 12.5° | 4101.0 | 4053.3 | 3963.1 | 3616.5 | 3365.4 | 3139.0 | 2963.9 | 2795.9 | 2626.1 | 2477.6 | 2389.2 |
| 15° | 4283.2 | 4221.3 | 4118.7 | 3738.5 | 3441.4 | 3137.2 | 2910.9 | 2764.1 | 2739.3 | 2702.2 | 2587.2 |
| 17.5° | 4414.1 | 4357.5 | 4251.4 | 3837.5 | 3483.8 | 3082.4 | 2764.1 | 2677.4 | 2788.8 | 2902.0 | 2792.4 |
| 20° | 4529.0 | 4463.6 | 4355.7 | 3906.5 | 3492.7 | 2960.4 | 2585.5 | 2587.2 | 2762.3 | 2917.9 | 2891.4 |
| 22.5° | 4626.3 | 4553.8 | 4458.3 | 3984.3 | 3489.2 | 2790.6 | 2429.8 | 2536.0 | 2711.0 | 2833.1 | 2836.6 |
| 25° | 4746.5 | 4686.4 | 4606.8 | 4099.3 | 3489.2 | 2617.3 | 2316.7 | 2474.1 | 2624.4 | 2726.9 | 2723.4 |
| 27.5° | 4893.3 | 4852.6 | 4787.2 | 4274.3 | 3521.0 | 2472.3 | 2253.0 | 2394.5 | 2513.0 | 2601.4 | 2599.6 |
| 30° | 5057.8 | 5020.6 | 4971.1 | 4460.0 | 3575.8 | 2364.4 | 2217.6 | 2295.4 | 2382.1 | 2452.8 | 2452.8 |
| 32.5° | 5225.8 | 5211.6 | 5158.6 | 4608.6 | 3533.4 | 2330.8 | 2187.6 | 2196.4 | 2242.4 | 2300.8 | 2295.4 |
| 35° | 5459.2 | 5445.1 | 5377.9 | 4723.5 | 3349.4 | 2283.1 | 2139.8 | 2095.6 | 2100.9 | 2138.1 | 2150.4 |
| 37.5° | 5800.5 | 5779.3 | 5680.3 | 4857.9 | 3071.8 | 2162.8 | 2062.0 | 1989.5 | 1973.6 | 1989.5 | 2012.5 |
| 40° | 6212.6 | 6180.7 | 6046.3 | 5040.1 | 2751.7 | 2000.1 | 1940.0 | 1879.9 | 1853.3 | 1858.6 | 1885.2 |
| 42.5° | 6729.0 | 6661.7 | 6469.0 | 5232.8 | 2435.2 | 1856.9 | 1803.8 | 1766.7 | 1736.6 | 1733.1 | 1784.4 |
| 45° | 7567.2 | 7383.3 | 7077.3 | 5404.4 | 2168.1 | 1780.8 | 1681.8 | 1655.3 | 1630.5 | 1644.7 | 1704.8 |
| 47.5° | 9031.5 | 8691.9 | 8096.0 | 5551.2 | 2005.4 | 1782.6 | 1584.5 | 1556.2 | 1554.5 | 1582.8 | 1650.0 |
| 50° | 11044.0 | 10554.1 | 9634.5 | 5650.2 | 1920.5 | 1803.8 | 1526.2 | 1480.2 | 1513.8 | 1542.1 | 1605.8 |
| 52.5° | 12971.6 | 12223.5 | 11128.9 | 5648.4 | 1883.4 | 1807.4 | 1542.1 | 1409.5 | 1513.8 | 1520.9 | 1581.0 |
| 55° | 14618.0 | 13263.4 | 11532.1 | 5068.4 | 1830.3 | 1793.2 | 1604.0 | 1354.6 | 1494.3 | 1520.9 | 1568.6 |
| 57.5° | 15926.7 | 13924.8 | 11502.0 | 4094.0 | 1991.3 | 1715.4 | 1641.1 | 1342.3 | 1437.7 | 1524.4 | 1579.2 |
| 60° | 15781.6 | 13622.4 | 10761.0 | 2513.0 | 1975.4 | 1577.5 | 1635.8 | 1365.2 | 1342.3 | 1476.7 | 1566.8 |
| 62.5° | 14817.8 | 12538.3 | 9486.0 | 1743.7 | 1855.1 | 1497.9 | 1549.2 | 1405.9 | 1253.8 | 1407.7 | 1506.7 |
| 65° | 13468.5 | 11139.5 | 7905.0 | 1336.9 | 1536.8 | 1501.4 | 1402.4 | 1377.6 | 1176.0 | 1298.0 | 1404.1 |
| 67.5° | 11684.1 | 9404.6 | 6240.9 | 1059.3 | 1071.7 | 1299.8 | 1273.3 | 1223.8 | 1103.5 | 1200.8 | 1296.3 |
| 70° | 8783.9 | 6863.4 | 4293.8 | 852.4 | 811.7 | 1085.8 | 1144.2 | 1100.0 | 1032.8 | 1061.1 | 1161.9 |
| 72.5° | 6189.6 | 4481.3 | 2352.0 | 675.5 | 626.0 | 834.7 | 993.9 | 986.8 | 912.5 | 933.7 | 1032.8 |
| 75° | 4599.7 | 3170.8 | 1469.6 | 534.1 | 509.3 | 597.7 | 832.9 | 854.2 | 792.3 | 817.0 | 893.1 |
| 77.5° | 3061.2 | 2053.2 | 817.0 | 396.1 | 396.1 | 436.8 | 620.7 | 719.8 | 673.8 | 693.2 | 746.3 |
| 80° | 1688.9 | 1045.2 | 408.5 | 260.0 | 267.0 | 300.6 | 452.7 | 518.2 | 519.9 | 567.7 | 581.8 |
| 82.5° | 534.1 | 332.5 | 182.2 | 152.1 | 143.2 | 171.5 | 291.8 | 371.4 | 346.6 | 442.1 | 406.7 |
| 85° | 122.0 | 77.8 | 33.6 | 33.6 | 37.1 | 56.6 | 111.4 | 198.1 | 252.9 | 304.2 | 221.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 77.8 | 114.9 | 102.6 |
| 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-SA3F-760-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 |
| 2.5° | 2702.2 | 2666.8 | 2656.2 | 2626.1 | 2622.6 | 2594.3 | 2583.7 | 2583.7 | 2596.1 | 2596.1 | 2608.5 |
| 5° | 2525.3 | 2481.1 | 2456.4 | 2421.0 | 2412.2 | 2390.9 | 2376.8 | 2378.6 | 2394.5 | 2405.1 | 2426.3 |
| 7.5° | 2369.7 | 2339.7 | 2322.0 | 2306.1 | 2302.5 | 2299.0 | 2283.1 | 2281.3 | 2286.6 | 2302.5 | 2318.4 |
| 10° | 2304.3 | 2283.1 | 2288.4 | 2300.8 | 2320.2 | 2330.8 | 2316.7 | 2309.6 | 2304.3 | 2314.9 | 2329.0 |
| 12.5° | 2368.0 | 2346.7 | 2357.3 | 2378.6 | 2405.1 | 2415.7 | 2410.4 | 2408.6 | 2413.9 | 2454.6 | 2484.7 |
| 15° | 2507.7 | 2467.0 | 2452.8 | 2461.7 | 2482.9 | 2493.5 | 2488.2 | 2495.3 | 2528.9 | 2635.0 | 2711.0 |
| 17.5° | 2681.0 | 2581.9 | 2525.3 | 2509.4 | 2518.3 | 2527.1 | 2527.1 | 2544.8 | 2603.2 | 2758.8 | 2854.3 |
| 20° | 2774.7 | 2645.6 | 2550.1 | 2511.2 | 2514.7 | 2523.6 | 2523.6 | 2548.3 | 2613.8 | 2780.0 | 2841.9 |
| 22.5° | 2749.9 | 2631.5 | 2514.7 | 2472.3 | 2474.1 | 2481.1 | 2481.1 | 2502.4 | 2560.7 | 2707.5 | 2735.8 |
| 25° | 2652.7 | 2548.3 | 2433.4 | 2396.2 | 2399.8 | 2412.2 | 2408.6 | 2421.0 | 2465.2 | 2585.5 | 2601.4 |
| 27.5° | 2536.0 | 2444.0 | 2330.8 | 2302.5 | 2318.4 | 2343.2 | 2322.0 | 2323.7 | 2364.4 | 2465.2 | 2467.0 |
| 30° | 2410.4 | 2334.4 | 2233.6 | 2212.3 | 2242.4 | 2254.8 | 2235.3 | 2235.3 | 2276.0 | 2345.0 | 2343.2 |
| 32.5° | 2274.2 | 2226.5 | 2154.0 | 2131.0 | 2164.6 | 2184.0 | 2159.3 | 2162.8 | 2194.6 | 2240.6 | 2222.9 |
| 35° | 2146.9 | 2122.1 | 2088.5 | 2072.6 | 2093.8 | 2111.5 | 2095.6 | 2102.7 | 2132.8 | 2145.1 | 2120.4 |
| 37.5° | 2024.9 | 2021.3 | 2024.9 | 2024.9 | 2030.2 | 2035.5 | 2024.9 | 2042.6 | 2069.1 | 2053.2 | 2024.9 |
| 40° | 1918.8 | 1932.9 | 1966.5 | 1957.7 | 1952.4 | 1957.7 | 1950.6 | 1980.7 | 2007.2 | 1978.9 | 1945.3 |
| 42.5° | 1830.3 | 1856.9 | 1908.2 | 1908.2 | 1897.5 | 1901.1 | 1897.5 | 1934.7 | 1954.1 | 1915.2 | 1878.1 |
| 45° | 1754.3 | 1793.2 | 1858.6 | 1867.5 | 1849.8 | 1849.8 | 1856.9 | 1902.9 | 1909.9 | 1856.9 | 1818.0 |
| 47.5° | 1701.2 | 1749.0 | 1823.3 | 1839.2 | 1812.7 | 1810.9 | 1830.3 | 1879.9 | 1879.9 | 1818.0 | 1773.8 |
| 50° | 1664.1 | 1717.2 | 1805.6 | 1826.8 | 1800.3 | 1793.2 | 1825.0 | 1872.8 | 1862.2 | 1787.9 | 1743.7 |
| 52.5° | 1639.4 | 1694.2 | 1803.8 | 1833.9 | 1816.2 | 1809.1 | 1841.0 | 1874.6 | 1848.0 | 1768.4 | 1722.5 |
| 55° | 1623.4 | 1683.6 | 1809.1 | 1833.9 | 1814.4 | 1802.1 | 1833.9 | 1863.9 | 1849.8 | 1757.8 | 1713.6 |
| 57.5° | 1632.3 | 1692.4 | 1802.1 | 1814.4 | 1791.4 | 1770.2 | 1807.4 | 1849.8 | 1844.5 | 1761.4 | 1717.2 |
| 60° | 1618.1 | 1673.0 | 1763.1 | 1766.7 | 1727.8 | 1694.2 | 1749.0 | 1812.7 | 1812.7 | 1749.0 | 1710.1 |
| 62.5° | 1552.7 | 1607.5 | 1687.1 | 1690.6 | 1646.4 | 1609.3 | 1673.0 | 1749.0 | 1747.2 | 1695.9 | 1655.3 |
| 65° | 1444.8 | 1496.1 | 1586.3 | 1595.1 | 1550.9 | 1512.0 | 1577.5 | 1648.2 | 1653.5 | 1607.5 | 1572.2 |
| 67.5° | 1326.3 | 1372.3 | 1439.5 | 1474.9 | 1437.7 | 1397.1 | 1457.2 | 1524.4 | 1522.6 | 1467.8 | 1430.7 |
| 70° | 1184.9 | 1227.3 | 1289.2 | 1319.3 | 1296.3 | 1257.4 | 1312.2 | 1347.6 | 1331.6 | 1305.1 | 1280.4 |
| 72.5° | 1045.2 | 1085.8 | 1144.2 | 1144.2 | 1119.4 | 1082.3 | 1098.2 | 1161.9 | 1181.3 | 1161.9 | 1146.0 |
| 75° | 898.4 | 933.7 | 974.4 | 983.3 | 928.4 | 861.2 | 935.5 | 990.3 | 1013.3 | 1004.5 | 985.0 |
| 77.5° | 748.1 | 774.6 | 834.7 | 818.8 | 716.2 | 680.9 | 741.0 | 822.3 | 838.2 | 832.9 | 806.4 |
| 80° | 576.5 | 592.4 | 656.1 | 624.3 | 544.7 | 521.7 | 548.2 | 611.9 | 615.4 | 597.7 | 564.1 |
| 82.5° | 387.3 | 408.5 | 451.0 | 389.1 | 387.3 | 366.1 | 344.8 | 351.9 | 383.8 | 380.2 | 357.2 |
| 85° | 198.1 | 208.7 | 249.4 | 233.4 | 199.8 | 173.3 | 164.5 | 175.1 | 157.4 | 143.2 | 123.8 |
| 87.5° | 83.1 | 90.2 | 123.8 | 69.0 | 21.2 | 0.0 | 0.0 | 10.6 | 15.9 | 23.0 | 24.8 |
| 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-SA3F-760-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 |
| 2.5° | 2636.8 | 2656.2 | 2704.0 | 2764.1 | 2822.4 | 2882.6 | 2948.0 | 2988.7 | 3038.2 | 3101.9 | 3103.6 |
| 5° | 2452.8 | 2497.1 | 2566.0 | 2658.0 | 2753.5 | 2863.1 | 2990.4 | 3096.6 | 3223.9 | 3324.7 | 3365.4 |
| 7.5° | 2339.7 | 2403.3 | 2490.0 | 2606.7 | 2732.3 | 2868.4 | 3034.7 | 3213.3 | 3421.9 | 3556.4 | 3635.9 |
| 10° | 2350.3 | 2447.5 | 2534.2 | 2633.2 | 2746.4 | 2893.2 | 3107.2 | 3344.1 | 3600.6 | 3777.4 | 3876.4 |
| 12.5° | 2539.5 | 2642.1 | 2626.1 | 2620.8 | 2696.9 | 2875.5 | 3165.5 | 3476.8 | 3789.8 | 3966.6 | 4085.1 |
| 15° | 2778.2 | 2817.1 | 2666.8 | 2553.6 | 2599.6 | 2811.8 | 3197.4 | 3595.3 | 3947.2 | 4162.9 | 4279.6 |
| 17.5° | 2900.3 | 2822.4 | 2640.3 | 2470.5 | 2458.1 | 2714.6 | 3213.3 | 3715.5 | 4124.0 | 4339.8 | 4463.6 |
| 20° | 2843.7 | 2730.5 | 2576.6 | 2415.7 | 2327.3 | 2581.9 | 3204.4 | 3811.0 | 4285.0 | 4525.5 | 4626.3 |
| 22.5° | 2721.6 | 2622.6 | 2502.4 | 2348.5 | 2221.2 | 2436.9 | 3181.4 | 3906.5 | 4428.2 | 4670.5 | 4758.9 |
| 25° | 2589.0 | 2514.7 | 2415.7 | 2281.3 | 2161.0 | 2309.6 | 3165.5 | 4033.8 | 4592.7 | 4824.3 | 4880.9 |
| 27.5° | 2456.4 | 2401.6 | 2320.2 | 2215.9 | 2146.9 | 2221.2 | 3170.8 | 4200.1 | 4804.9 | 5024.2 | 5001.2 |
| 30° | 2325.5 | 2277.8 | 2221.2 | 2175.2 | 2145.1 | 2200.0 | 3156.7 | 4376.9 | 5038.3 | 5241.7 | 5105.5 |
| 32.5° | 2201.7 | 2157.5 | 2122.1 | 2129.2 | 2146.9 | 2208.8 | 3084.2 | 4537.8 | 5252.3 | 5425.6 | 5218.7 |
| 35° | 2095.6 | 2049.6 | 2049.6 | 2074.4 | 2139.8 | 2178.7 | 2896.7 | 4663.4 | 5489.3 | 5662.6 | 5379.6 |
| 37.5° | 1996.6 | 1955.9 | 1982.4 | 2023.1 | 2085.0 | 2097.4 | 2656.2 | 4785.4 | 5834.1 | 5996.8 | 5629.0 |
| 40° | 1909.9 | 1869.3 | 1917.0 | 1968.3 | 2000.1 | 1994.8 | 2412.2 | 4955.2 | 6240.9 | 6408.9 | 5959.7 |
| 42.5° | 1841.0 | 1803.8 | 1846.3 | 1911.7 | 1917.0 | 1922.3 | 2233.6 | 5117.9 | 6713.0 | 6927.0 | 6529.1 |
| 45° | 1784.4 | 1757.8 | 1779.1 | 1844.5 | 1844.5 | 1925.8 | 2122.1 | 5254.1 | 7424.0 | 7802.4 | 7574.3 |
| 47.5° | 1740.2 | 1724.2 | 1734.8 | 1756.1 | 1791.4 | 1989.5 | 2051.4 | 5358.4 | 8718.5 | 9461.2 | 9231.3 |
| 50° | 1715.4 | 1699.5 | 1713.6 | 1669.4 | 1775.5 | 2021.3 | 2028.4 | 5438.0 | 10425.0 | 11588.7 | 11303.9 |
| 52.5° | 1694.2 | 1688.9 | 1697.7 | 1595.1 | 1810.9 | 2000.1 | 2010.7 | 5331.9 | 11569.2 | 13682.5 | 13963.7 |
| 55° | 1687.1 | 1690.6 | 1648.2 | 1540.3 | 1853.3 | 1929.4 | 1957.7 | 4573.2 | 11880.4 | 15488.1 | 17233.5 |
| 57.5° | 1690.6 | 1680.0 | 1572.2 | 1545.6 | 1855.1 | 1787.9 | 2033.7 | 3262.8 | 11427.7 | 16273.3 | 20432.7 |
| 60° | 1678.3 | 1625.2 | 1480.2 | 1593.4 | 1773.8 | 1621.7 | 1978.9 | 2127.4 | 10234.0 | 15670.2 | 20618.4 |
| 62.5° | 1623.4 | 1545.6 | 1400.6 | 1619.9 | 1628.7 | 1522.6 | 1796.7 | 1639.4 | 8642.4 | 14379.3 | 18828.7 |
| 65° | 1543.9 | 1439.5 | 1333.4 | 1565.1 | 1482.0 | 1476.7 | 1351.1 | 1314.0 | 6950.0 | 12842.5 | 17131.0 |
| 67.5° | 1413.0 | 1308.7 | 1283.9 | 1439.5 | 1333.4 | 1308.7 | 1085.8 | 1089.4 | 5545.9 | 11204.9 | 15424.4 |
| 70° | 1264.4 | 1160.1 | 1179.6 | 1301.6 | 1186.6 | 1087.6 | 878.9 | 907.2 | 4207.1 | 9335.6 | 13123.7 |
| 72.5° | 1167.2 | 1027.5 | 1029.2 | 1146.0 | 1043.4 | 880.7 | 723.3 | 748.1 | 2670.4 | 7036.7 | 10433.9 |
| 75° | 985.0 | 905.4 | 866.5 | 928.4 | 886.0 | 686.2 | 608.3 | 603.0 | 1582.8 | 5043.6 | 7813.0 |
| 77.5° | 822.3 | 760.4 | 741.0 | 765.7 | 661.4 | 507.5 | 489.9 | 481.0 | 896.6 | 3231.0 | 5119.7 |
| 80° | 596.0 | 580.1 | 578.3 | 590.7 | 509.3 | 373.1 | 373.1 | 374.9 | 482.8 | 1754.3 | 2886.1 |
| 82.5° | 378.4 | 413.8 | 366.1 | 406.7 | 346.6 | 265.3 | 247.6 | 281.2 | 277.6 | 748.1 | 1216.7 |
| 85° | 157.4 | 215.8 | 201.6 | 214.0 | 164.5 | 145.0 | 155.6 | 168.0 | 160.9 | 288.3 | 473.9 |
| 87.5° | 30.1 | 35.4 | 38.9 | 37.1 | 37.1 | 46.0 | 51.3 | 61.9 | 61.9 | 83.1 | 143.2 |
| 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° | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 | 2882.6 |
| 2.5° | 3170.8 | 3222.1 | 3211.5 | 3234.5 | 3204.4 | 3215.0 | 3154.9 | 3139.0 | 3128.4 | 3131.9 |
| 5° | 3496.2 | 3600.6 | 3620.0 | 3658.9 | 3632.4 | 3632.4 | 3526.3 | 3446.7 | 3418.4 | 3397.2 |
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| 12.5° | 4345.1 | 4504.2 | 4578.5 | 4613.9 | 4610.3 | 4594.4 | 4438.8 | 4226.6 | 4161.2 | 4101.0 |
| 15° | 4490.1 | 4569.7 | 4541.4 | 4539.6 | 4564.4 | 4628.0 | 4580.3 | 4414.1 | 4338.0 | 4283.2 |
| 17.5° | 4583.8 | 4507.8 | 4382.2 | 4323.9 | 4376.9 | 4527.2 | 4636.9 | 4543.1 | 4474.2 | 4414.1 |
| 20° | 4617.4 | 4346.8 | 4164.7 | 4056.8 | 4118.7 | 4336.2 | 4606.8 | 4636.9 | 4578.5 | 4529.0 |
| 22.5° | 4578.5 | 4150.6 | 3903.0 | 3775.6 | 3835.8 | 4095.7 | 4518.4 | 4712.9 | 4674.0 | 4626.3 |
| 25° | 4483.0 | 3945.4 | 3648.3 | 3533.4 | 3598.8 | 3864.1 | 4361.0 | 4783.7 | 4785.4 | 4746.5 |
| 27.5° | 4364.5 | 3756.2 | 3469.7 | 3361.8 | 3425.5 | 3673.1 | 4207.1 | 4845.6 | 4907.4 | 4893.3 |
| 30° | 4244.3 | 3643.0 | 3384.8 | 3308.8 | 3356.5 | 3575.8 | 4049.7 | 4909.2 | 5033.0 | 5057.8 |
| 32.5° | 4189.5 | 3697.8 | 3584.6 | 3618.2 | 3556.4 | 3632.4 | 3993.2 | 4999.4 | 5185.1 | 5225.8 |
| 35° | 4262.0 | 4184.2 | 4470.6 | 4603.3 | 4384.0 | 4095.7 | 4065.7 | 5135.6 | 5399.1 | 5459.2 |
| 37.5° | 4613.9 | 5225.8 | 5653.7 | 6120.6 | 5740.4 | 5105.5 | 4424.7 | 5367.2 | 5705.0 | 5800.5 |
| 40° | 5379.6 | 6134.8 | 6907.6 | 7510.6 | 6935.9 | 6081.7 | 5107.3 | 5712.1 | 6125.9 | 6212.6 |
| 42.5° | 6101.2 | 6987.1 | 8051.8 | 8831.6 | 8085.4 | 6879.3 | 5843.0 | 6292.1 | 6681.2 | 6729.0 |
| 45° | 6808.5 | 7823.6 | 9436.4 | 10520.5 | 9507.2 | 7637.9 | 6594.5 | 7271.9 | 7565.4 | 7567.2 |
| 47.5° | 7637.9 | 8766.2 | 11173.1 | 12716.9 | 11394.1 | 8477.9 | 7300.2 | 8822.8 | 9231.3 | 9031.5 |
| 50° | 8630.0 | 9703.5 | 12961.0 | 15272.3 | 13694.9 | 9510.7 | 8196.8 | 10713.3 | 11270.3 | 11044.0 |
| 52.5° | 9958.1 | 10736.3 | 14931.0 | 17764.1 | 16202.5 | 10686.7 | 9496.6 | 13210.3 | 13394.2 | 12971.6 |
| 55° | 11827.4 | 12227.1 | 17459.9 | 20841.2 | 19002.0 | 12135.1 | 11397.7 | 16344.0 | 15829.4 | 14618.0 |
| 57.5° | 16084.0 | 14586.2 | 20706.8 | 24351.6 | 22169.3 | 14766.6 | 15564.1 | 19799.6 | 17969.2 | 15926.7 |
| 60° | 19645.7 | 17451.1 | 23711.4 | 27835.4 | 24883.9 | 17666.8 | 19475.9 | 20400.8 | 17889.6 | 15781.6 |
| 62.5° | 18444.9 | 18181.4 | 24795.4 | 28219.1 | 25810.5 | 19094.0 | 18749.1 | 18885.3 | 16722.5 | 14817.8 |
| 65° | 16183.1 | 16772.0 | 23828.1 | 26399.4 | 24783.1 | 17815.4 | 16959.4 | 17484.7 | 15387.3 | 13468.5 |
| 67.5° | 14847.9 | 15281.2 | 22107.4 | 23486.8 | 22915.6 | 16432.4 | 15567.7 | 15187.4 | 13314.7 | 11684.1 |
| 70° | 13482.7 | 13841.7 | 19691.7 | 19831.4 | 20002.9 | 14133.4 | 12729.3 | 11597.5 | 9924.5 | 8783.9 |
| 72.5° | 11650.5 | 11670.0 | 16637.6 | 15827.6 | 16153.0 | 11059.9 | 10246.4 | 8670.7 | 7224.1 | 6189.6 |
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| 77.5° | 7452.2 | 6828.0 | 9620.4 | 7275.4 | 8228.6 | 5729.8 | 6396.5 | 4431.7 | 3834.0 | 3061.2 |
| 80° | 5002.9 | 4613.9 | 5316.0 | 4106.3 | 5383.2 | 3948.9 | 4171.8 | 2511.2 | 2177.0 | 1688.9 |
| 82.5° | 2638.5 | 2253.0 | 3285.8 | 2435.2 | 3246.9 | 2169.9 | 1565.1 | 776.3 | 661.4 | 534.1 |
| 85° | 1022.2 | 1183.1 | 1611.1 | 866.5 | 1259.1 | 774.6 | 452.7 | 192.8 | 160.9 | 122.0 |
| 87.5° | 198.1 | 305.9 | 168.0 | 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 |

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