

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: P642497

Luminaire Tested: GWS-SA6D-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642497
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-SA6D-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24730 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

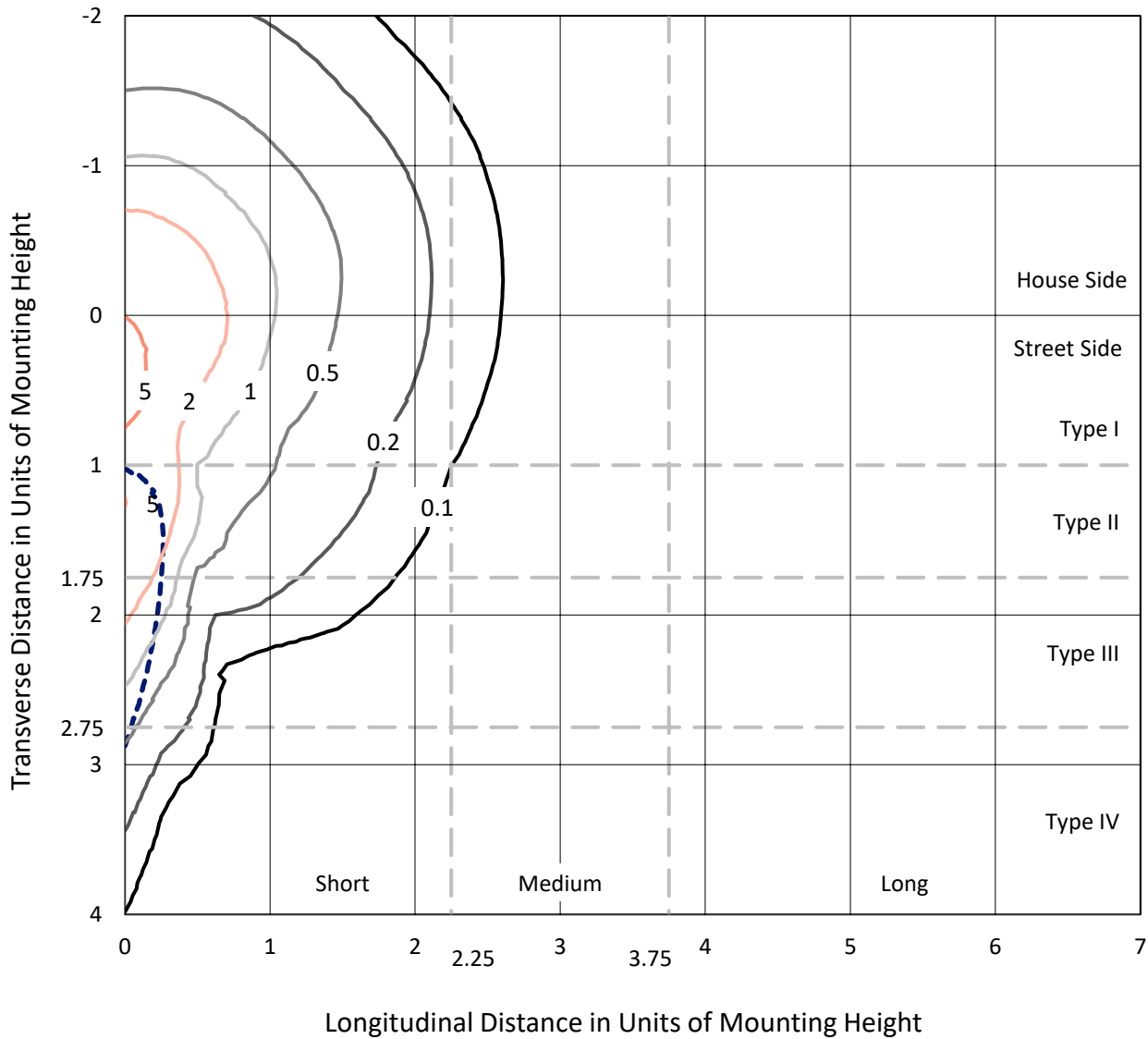
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

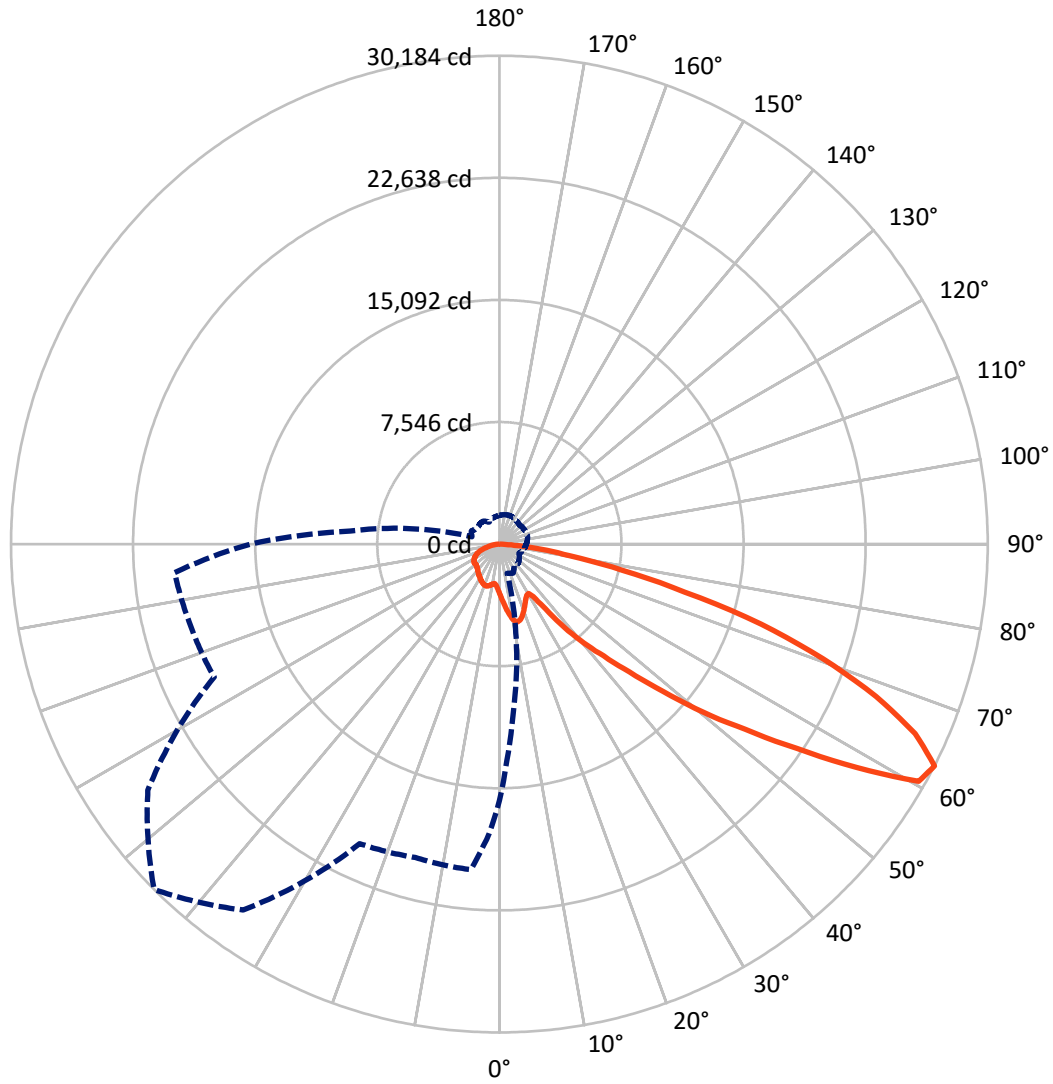
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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 | 5913.0 | 0.0 | 5913.0 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 18817.0 | 0.0 | 18817.0 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 24730.0 | 0.0 | 24730.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.7 | 1.2 |
| 10°-20° | 987.2 | 4.0 |
| 20°-30° | 1554.1 | 6.3 |
| 30°-40° | 2130.2 | 8.6 |
| 40°-50° | 3323.7 | 13.4 |
| 50°-60° | 5730.7 | 23.2 |
| 60°-70° | 6641.2 | 26.9 |
| 70°-80° | 3505.5 | 14.2 |
| 80°-90° | 553.8 | 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° | 24730.0 | 100.0 |
| 0°-180° | 24730.0 | 100.0 |

Coefficient of Utilization



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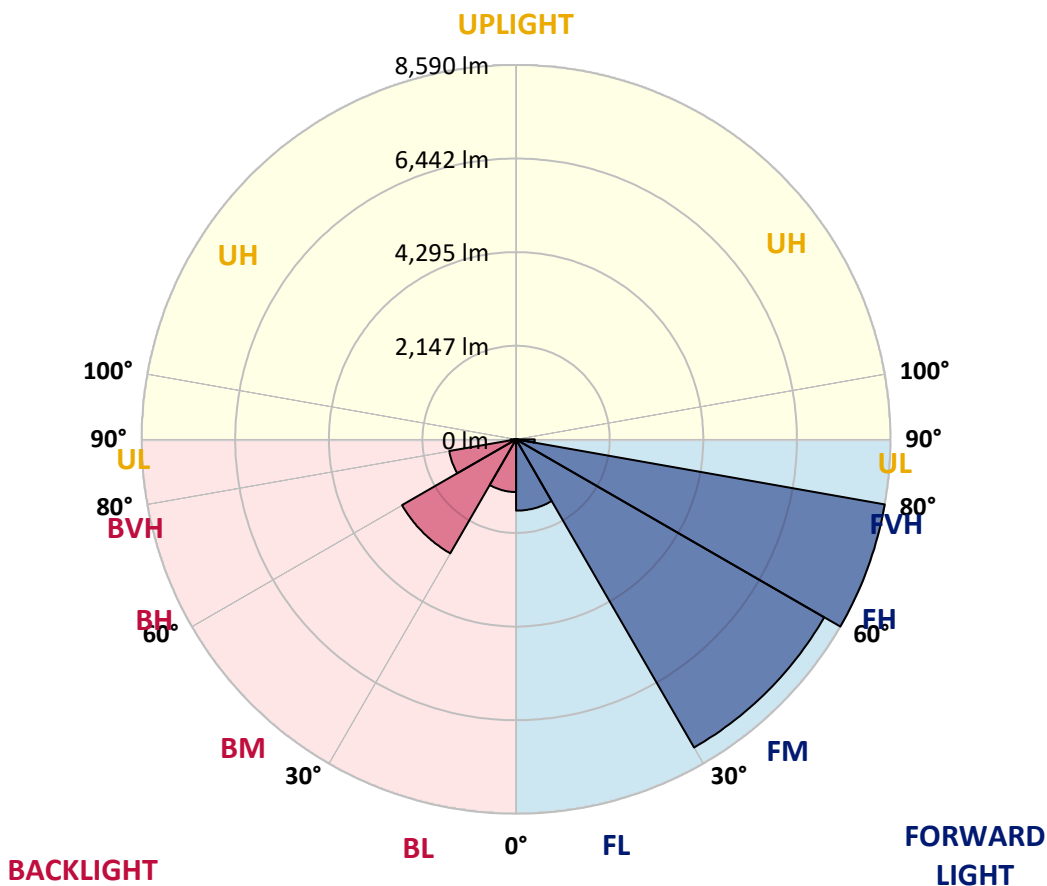
CATALOG NUMBER: GWS-SA6D-722-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1635.6 | 6.6 | | | |
| FM (30°-60°) | 8164.2 | 33.0 | | | |
| FH (60°-80°) | 8589.8 | 34.7 | | | G4/12000 |
| FVH (80°-90°) | 427.4 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1209.4 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 3020.3 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 1556.9 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 126.3 | 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° | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 |
| 2.5° | 3350.0 | 3336.8 | 3317.9 | 3253.6 | 3213.8 | 3168.4 | 3121.2 | 3066.3 | 3003.9 | 2960.4 | 2916.9 |
| 5° | 3633.8 | 3613.0 | 3567.6 | 3414.4 | 3308.4 | 3193.0 | 3096.6 | 2986.8 | 2879.0 | 2805.3 | 2731.5 |
| 7.5° | 3906.2 | 3879.7 | 3809.7 | 3575.1 | 3403.0 | 3236.5 | 3090.9 | 2932.0 | 2771.2 | 2661.5 | 2574.5 |
| 10° | 4178.6 | 4123.7 | 4034.8 | 3728.4 | 3501.4 | 3308.4 | 3142.0 | 2947.1 | 2733.4 | 2583.9 | 2491.2 |
| 12.5° | 4386.6 | 4335.6 | 4239.1 | 3868.3 | 3599.7 | 3357.6 | 3170.3 | 2990.6 | 2809.0 | 2650.1 | 2555.6 |
| 15° | 4581.5 | 4515.3 | 4405.6 | 3998.9 | 3681.1 | 3355.7 | 3113.6 | 2956.6 | 2930.1 | 2890.4 | 2767.4 |
| 17.5° | 4721.5 | 4660.9 | 4547.4 | 4104.8 | 3726.5 | 3297.1 | 2956.6 | 2863.9 | 2983.1 | 3104.1 | 2986.8 |
| 20° | 4844.4 | 4774.4 | 4659.0 | 4178.6 | 3735.9 | 3166.5 | 2765.5 | 2767.4 | 2954.7 | 3121.2 | 3092.8 |
| 22.5° | 4948.4 | 4870.9 | 4768.7 | 4261.8 | 3732.1 | 2985.0 | 2599.1 | 2712.6 | 2899.8 | 3030.4 | 3034.1 |
| 25° | 5077.1 | 5012.8 | 4927.6 | 4384.7 | 3732.1 | 2799.6 | 2478.0 | 2646.4 | 2807.1 | 2916.9 | 2913.1 |
| 27.5° | 5234.1 | 5190.6 | 5120.6 | 4572.0 | 3766.2 | 2644.5 | 2409.9 | 2561.2 | 2688.0 | 2782.6 | 2780.7 |
| 30° | 5410.0 | 5370.3 | 5317.3 | 4770.6 | 3824.8 | 2529.1 | 2372.1 | 2455.3 | 2548.0 | 2623.7 | 2623.7 |
| 32.5° | 5589.7 | 5574.6 | 5517.8 | 4929.5 | 3779.4 | 2493.1 | 2339.9 | 2349.4 | 2398.6 | 2461.0 | 2455.3 |
| 35° | 5839.4 | 5824.3 | 5752.4 | 5052.5 | 3582.7 | 2442.1 | 2288.8 | 2241.6 | 2247.2 | 2287.0 | 2300.2 |
| 37.5° | 6204.5 | 6181.8 | 6075.8 | 5196.2 | 3285.7 | 2313.4 | 2205.6 | 2128.1 | 2111.0 | 2128.1 | 2152.6 |
| 40° | 6645.2 | 6611.2 | 6467.4 | 5391.1 | 2943.3 | 2139.4 | 2075.1 | 2010.8 | 1982.4 | 1988.1 | 2016.5 |
| 42.5° | 7197.6 | 7125.7 | 6919.5 | 5597.3 | 2604.7 | 1986.2 | 1929.4 | 1889.7 | 1857.6 | 1853.8 | 1908.6 |
| 45° | 8094.2 | 7897.5 | 7570.2 | 5780.8 | 2319.1 | 1904.8 | 1798.9 | 1770.5 | 1744.1 | 1759.2 | 1823.5 |
| 47.5° | 9660.4 | 9297.2 | 8659.8 | 5937.8 | 2145.1 | 1906.7 | 1694.9 | 1664.6 | 1662.7 | 1693.0 | 1764.9 |
| 50° | 11813.1 | 11289.1 | 10305.5 | 6043.7 | 2054.3 | 1929.4 | 1632.5 | 1583.3 | 1619.2 | 1649.5 | 1717.6 |
| 52.5° | 13874.9 | 13074.8 | 11903.9 | 6041.8 | 2014.6 | 1933.2 | 1649.5 | 1507.6 | 1619.2 | 1626.8 | 1691.1 |
| 55° | 15636.0 | 14187.1 | 12335.2 | 5421.3 | 1957.8 | 1918.1 | 1715.7 | 1449.0 | 1598.4 | 1626.8 | 1677.9 |
| 57.5° | 17035.8 | 14894.5 | 12303.0 | 4379.1 | 2129.9 | 1834.9 | 1755.4 | 1435.7 | 1537.9 | 1630.6 | 1689.2 |
| 60° | 16880.7 | 14571.0 | 11510.4 | 2688.0 | 2112.9 | 1687.3 | 1749.7 | 1460.3 | 1435.7 | 1579.5 | 1676.0 |
| 62.5° | 15849.8 | 13411.5 | 10146.6 | 1865.1 | 1984.3 | 1602.2 | 1657.0 | 1503.8 | 1341.1 | 1505.7 | 1611.6 |
| 65° | 14406.5 | 11915.2 | 8455.5 | 1430.1 | 1643.8 | 1606.0 | 1500.0 | 1473.6 | 1257.9 | 1388.4 | 1501.9 |
| 67.5° | 12497.8 | 10059.6 | 6675.5 | 1133.1 | 1146.3 | 1390.3 | 1362.0 | 1309.0 | 1180.4 | 1284.4 | 1386.5 |
| 70° | 9395.6 | 7341.3 | 4592.8 | 911.8 | 868.2 | 1161.4 | 1223.9 | 1176.6 | 1104.7 | 1135.0 | 1242.8 |
| 72.5° | 6620.6 | 4793.3 | 2515.8 | 722.6 | 669.6 | 892.8 | 1063.1 | 1055.5 | 976.1 | 998.8 | 1104.7 |
| 75° | 4920.1 | 3391.7 | 1571.9 | 571.3 | 544.8 | 639.4 | 890.9 | 913.6 | 847.4 | 873.9 | 955.3 |
| 77.5° | 3274.4 | 2196.2 | 873.9 | 423.7 | 423.7 | 467.2 | 664.0 | 769.9 | 720.7 | 741.5 | 798.3 |
| 80° | 1806.5 | 1117.9 | 437.0 | 278.1 | 285.6 | 321.6 | 484.3 | 554.2 | 556.1 | 607.2 | 622.3 |
| 82.5° | 571.3 | 355.6 | 194.8 | 162.7 | 153.2 | 183.5 | 312.1 | 397.2 | 370.8 | 472.9 | 435.1 |
| 85° | 130.5 | 83.2 | 35.9 | 35.9 | 39.7 | 60.5 | 119.2 | 211.9 | 270.5 | 325.4 | 236.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 83.2 | 123.0 | 109.7 |
| 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° | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 |
| 2.5° | 2890.4 | 2852.5 | 2841.2 | 2809.0 | 2805.3 | 2775.0 | 2763.6 | 2763.6 | 2776.9 | 2776.9 | 2790.1 |
| 5° | 2701.2 | 2653.9 | 2627.4 | 2589.6 | 2580.2 | 2557.5 | 2542.3 | 2544.2 | 2561.2 | 2572.6 | 2595.3 |
| 7.5° | 2534.8 | 2502.6 | 2483.7 | 2466.7 | 2462.9 | 2459.1 | 2442.1 | 2440.2 | 2445.8 | 2462.9 | 2479.9 |
| 10° | 2464.8 | 2442.1 | 2447.7 | 2461.0 | 2481.8 | 2493.1 | 2478.0 | 2470.4 | 2464.8 | 2476.1 | 2491.2 |
| 12.5° | 2532.9 | 2510.2 | 2521.5 | 2544.2 | 2572.6 | 2583.9 | 2578.3 | 2576.4 | 2582.0 | 2625.6 | 2657.7 |
| 15° | 2682.3 | 2638.8 | 2623.7 | 2633.1 | 2655.8 | 2667.2 | 2661.5 | 2669.1 | 2705.0 | 2818.5 | 2899.8 |
| 17.5° | 2867.7 | 2761.7 | 2701.2 | 2684.2 | 2693.6 | 2703.1 | 2703.1 | 2722.0 | 2784.4 | 2950.9 | 3053.1 |
| 20° | 2967.9 | 2829.8 | 2727.7 | 2686.1 | 2689.9 | 2699.3 | 2699.3 | 2725.8 | 2795.8 | 2973.6 | 3039.8 |
| 22.5° | 2941.4 | 2814.7 | 2689.9 | 2644.5 | 2646.4 | 2653.9 | 2653.9 | 2676.6 | 2739.0 | 2896.0 | 2926.3 |
| 25° | 2837.4 | 2725.8 | 2602.9 | 2563.1 | 2566.9 | 2580.2 | 2576.4 | 2589.6 | 2636.9 | 2765.5 | 2782.6 |
| 27.5° | 2712.6 | 2614.2 | 2493.1 | 2462.9 | 2479.9 | 2506.4 | 2483.7 | 2485.6 | 2529.1 | 2636.9 | 2638.8 |
| 30° | 2578.3 | 2496.9 | 2389.1 | 2366.4 | 2398.6 | 2411.8 | 2391.0 | 2391.0 | 2434.5 | 2508.3 | 2506.4 |
| 32.5° | 2432.6 | 2381.5 | 2304.0 | 2279.4 | 2315.3 | 2336.1 | 2309.7 | 2313.4 | 2347.5 | 2396.7 | 2377.7 |
| 35° | 2296.4 | 2269.9 | 2234.0 | 2217.0 | 2239.7 | 2258.6 | 2241.6 | 2249.1 | 2281.3 | 2294.5 | 2268.0 |
| 37.5° | 2165.9 | 2162.1 | 2165.9 | 2165.9 | 2171.6 | 2177.2 | 2165.9 | 2184.8 | 2213.2 | 2196.2 | 2165.9 |
| 40° | 2052.4 | 2067.5 | 2103.5 | 2094.0 | 2088.3 | 2094.0 | 2086.4 | 2118.6 | 2147.0 | 2116.7 | 2080.8 |
| 42.5° | 1957.8 | 1986.2 | 2041.0 | 2041.0 | 2029.7 | 2033.5 | 2029.7 | 2069.4 | 2090.2 | 2048.6 | 2008.9 |
| 45° | 1876.5 | 1918.1 | 1988.1 | 1997.5 | 1978.6 | 1978.6 | 1986.2 | 2035.4 | 2042.9 | 1986.2 | 1944.6 |
| 47.5° | 1819.7 | 1870.8 | 1950.2 | 1967.3 | 1938.9 | 1937.0 | 1957.8 | 2010.8 | 2010.8 | 1944.6 | 1897.3 |
| 50° | 1780.0 | 1836.8 | 1931.3 | 1954.0 | 1925.7 | 1918.1 | 1952.1 | 2003.2 | 1991.9 | 1912.4 | 1865.1 |
| 52.5° | 1753.5 | 1812.2 | 1929.4 | 1961.6 | 1942.7 | 1935.1 | 1969.2 | 2005.1 | 1976.7 | 1891.6 | 1842.4 |
| 55° | 1736.5 | 1800.8 | 1935.1 | 1961.6 | 1940.8 | 1927.5 | 1961.6 | 1993.8 | 1978.6 | 1880.3 | 1833.0 |
| 57.5° | 1746.0 | 1810.3 | 1927.5 | 1940.8 | 1916.2 | 1893.5 | 1933.2 | 1978.6 | 1972.9 | 1884.0 | 1836.8 |
| 60° | 1730.8 | 1789.5 | 1885.9 | 1889.7 | 1848.1 | 1812.2 | 1870.8 | 1938.9 | 1938.9 | 1870.8 | 1829.2 |
| 62.5° | 1660.8 | 1719.5 | 1804.6 | 1808.4 | 1761.1 | 1721.4 | 1789.5 | 1870.8 | 1868.9 | 1814.1 | 1770.5 |
| 65° | 1545.4 | 1600.3 | 1696.8 | 1706.2 | 1658.9 | 1617.3 | 1687.3 | 1763.0 | 1768.7 | 1719.5 | 1681.6 |
| 67.5° | 1418.7 | 1467.9 | 1539.8 | 1577.6 | 1537.9 | 1494.4 | 1558.7 | 1630.6 | 1628.7 | 1570.0 | 1530.3 |
| 70° | 1267.4 | 1312.8 | 1379.0 | 1411.1 | 1386.5 | 1344.9 | 1403.6 | 1441.4 | 1424.4 | 1396.0 | 1369.5 |
| 72.5° | 1117.9 | 1161.4 | 1223.9 | 1223.9 | 1197.4 | 1157.7 | 1174.7 | 1242.8 | 1263.6 | 1242.8 | 1225.8 |
| 75° | 960.9 | 998.8 | 1042.3 | 1051.7 | 993.1 | 921.2 | 1000.7 | 1059.3 | 1083.9 | 1074.4 | 1053.6 |
| 77.5° | 800.1 | 828.5 | 892.8 | 875.8 | 766.1 | 728.3 | 792.6 | 879.6 | 896.6 | 890.9 | 862.6 |
| 80° | 616.7 | 633.7 | 701.8 | 667.7 | 582.6 | 558.0 | 586.4 | 654.5 | 658.3 | 639.4 | 603.4 |
| 82.5° | 414.3 | 437.0 | 482.4 | 416.2 | 414.3 | 391.6 | 368.9 | 376.4 | 410.5 | 406.7 | 382.1 |
| 85° | 211.9 | 223.2 | 266.7 | 249.7 | 213.8 | 185.4 | 175.9 | 187.3 | 168.4 | 153.2 | 132.4 |
| 87.5° | 88.9 | 96.5 | 132.4 | 73.8 | 22.7 | 0.0 | 0.0 | 11.3 | 17.0 | 24.6 | 26.5 |
| 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-SA6D-722-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 |
| 2.5° | 2820.4 | 2841.2 | 2892.3 | 2956.6 | 3019.0 | 3083.3 | 3153.3 | 3196.8 | 3249.8 | 3317.9 | 3319.8 |
| 5° | 2623.7 | 2670.9 | 2744.7 | 2843.1 | 2945.2 | 3062.5 | 3198.7 | 3312.2 | 3448.4 | 3556.2 | 3599.7 |
| 7.5° | 2502.6 | 2570.7 | 2663.4 | 2788.2 | 2922.5 | 3068.2 | 3246.0 | 3437.0 | 3660.3 | 3804.0 | 3889.1 |
| 10° | 2513.9 | 2618.0 | 2710.7 | 2816.6 | 2937.7 | 3094.7 | 3323.6 | 3577.0 | 3851.3 | 4040.5 | 4146.4 |
| 12.5° | 2716.3 | 2826.1 | 2809.0 | 2803.4 | 2884.7 | 3075.8 | 3386.0 | 3718.9 | 4053.7 | 4242.9 | 4369.6 |
| 15° | 2971.7 | 3013.3 | 2852.5 | 2731.5 | 2780.7 | 3007.7 | 3420.0 | 3845.6 | 4222.1 | 4452.8 | 4577.7 |
| 17.5° | 3102.2 | 3019.0 | 2824.2 | 2642.6 | 2629.3 | 2903.6 | 3437.0 | 3974.3 | 4411.2 | 4642.0 | 4774.4 |
| 20° | 3041.7 | 2920.6 | 2756.1 | 2583.9 | 2489.4 | 2761.7 | 3427.6 | 4076.4 | 4583.4 | 4840.6 | 4948.4 |
| 22.5° | 2911.2 | 2805.3 | 2676.6 | 2512.1 | 2375.9 | 2606.6 | 3403.0 | 4178.6 | 4736.6 | 4995.7 | 5090.3 |
| 25° | 2769.3 | 2689.9 | 2583.9 | 2440.2 | 2311.5 | 2470.4 | 3386.0 | 4314.8 | 4912.5 | 5160.3 | 5220.8 |
| 27.5° | 2627.4 | 2568.8 | 2481.8 | 2370.2 | 2296.4 | 2375.9 | 3391.7 | 4492.6 | 5139.5 | 5374.1 | 5349.5 |
| 30° | 2487.5 | 2436.4 | 2375.9 | 2326.7 | 2294.5 | 2353.2 | 3376.5 | 4681.7 | 5389.2 | 5606.7 | 5461.1 |
| 32.5° | 2355.1 | 2307.8 | 2269.9 | 2277.5 | 2296.4 | 2362.6 | 3299.0 | 4853.9 | 5618.1 | 5803.4 | 5582.1 |
| 35° | 2241.6 | 2192.4 | 2192.4 | 2218.9 | 2288.8 | 2330.5 | 3098.5 | 4988.2 | 5871.5 | 6056.9 | 5754.3 |
| 37.5° | 2135.6 | 2092.1 | 2120.5 | 2164.0 | 2230.2 | 2243.4 | 2841.2 | 5118.7 | 6240.4 | 6414.4 | 6021.0 |
| 40° | 2042.9 | 1999.4 | 2050.5 | 2105.4 | 2139.4 | 2133.7 | 2580.2 | 5300.3 | 6675.5 | 6855.2 | 6374.7 |
| 42.5° | 1969.2 | 1929.4 | 1974.8 | 2044.8 | 2050.5 | 2056.2 | 2389.1 | 5474.3 | 7180.5 | 7409.4 | 6983.8 |
| 45° | 1908.6 | 1880.3 | 1903.0 | 1972.9 | 1972.9 | 2060.0 | 2269.9 | 5620.0 | 7941.0 | 8345.8 | 8101.8 |
| 47.5° | 1861.3 | 1844.3 | 1855.7 | 1878.4 | 1916.2 | 2128.1 | 2194.3 | 5731.6 | 9325.6 | 10120.1 | 9874.2 |
| 50° | 1834.9 | 1817.8 | 1833.0 | 1785.7 | 1899.2 | 2162.1 | 2169.7 | 5816.7 | 11151.0 | 12395.7 | 12091.2 |
| 52.5° | 1812.2 | 1806.5 | 1815.9 | 1706.2 | 1937.0 | 2139.4 | 2150.8 | 5703.2 | 12374.9 | 14635.4 | 14936.1 |
| 55° | 1804.6 | 1808.4 | 1763.0 | 1647.6 | 1982.4 | 2063.7 | 2094.0 | 4891.7 | 12707.8 | 16566.7 | 18433.7 |
| 57.5° | 1808.4 | 1797.0 | 1681.6 | 1653.3 | 1984.3 | 1912.4 | 2175.3 | 3490.0 | 12223.6 | 17406.6 | 21855.6 |
| 60° | 1795.1 | 1738.4 | 1583.3 | 1704.3 | 1897.3 | 1734.6 | 2116.7 | 2275.6 | 10946.7 | 16761.5 | 22054.2 |
| 62.5° | 1736.5 | 1653.3 | 1498.2 | 1732.7 | 1742.2 | 1628.7 | 1921.9 | 1753.5 | 9244.3 | 15380.7 | 20139.9 |
| 65° | 1651.4 | 1539.8 | 1426.3 | 1674.1 | 1585.2 | 1579.5 | 1445.2 | 1405.5 | 7434.0 | 13736.8 | 18324.0 |
| 67.5° | 1511.4 | 1399.8 | 1373.3 | 1539.8 | 1426.3 | 1399.8 | 1161.4 | 1165.2 | 5932.1 | 11985.2 | 16498.6 |
| 70° | 1352.5 | 1240.9 | 1261.7 | 1392.2 | 1269.3 | 1163.3 | 940.1 | 970.4 | 4500.1 | 9985.8 | 14037.6 |
| 72.5° | 1248.5 | 1099.0 | 1100.9 | 1225.8 | 1116.0 | 942.0 | 773.7 | 800.1 | 2856.3 | 7526.7 | 11160.5 |
| 75° | 1053.6 | 968.5 | 926.9 | 993.1 | 947.7 | 733.9 | 650.7 | 645.0 | 1693.0 | 5394.9 | 8357.1 |
| 77.5° | 879.6 | 813.4 | 792.6 | 819.1 | 707.5 | 542.9 | 524.0 | 514.5 | 959.0 | 3456.0 | 5476.2 |
| 80° | 637.5 | 620.4 | 618.6 | 631.8 | 544.8 | 399.1 | 399.1 | 401.0 | 516.4 | 1876.5 | 3087.1 |
| 82.5° | 404.8 | 442.6 | 391.6 | 435.1 | 370.8 | 283.7 | 264.8 | 300.8 | 297.0 | 800.1 | 1301.4 |
| 85° | 168.4 | 230.8 | 215.6 | 228.9 | 175.9 | 155.1 | 166.5 | 179.7 | 172.1 | 308.3 | 507.0 |
| 87.5° | 32.2 | 37.8 | 41.6 | 39.7 | 39.7 | 49.2 | 54.9 | 66.2 | 66.2 | 88.9 | 153.2 |
| 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° | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 | 3083.3 |
| 2.5° | 3391.7 | 3446.5 | 3435.2 | 3459.7 | 3427.6 | 3438.9 | 3374.6 | 3357.6 | 3346.3 | 3350.0 |
| 5° | 3739.7 | 3851.3 | 3872.1 | 3913.7 | 3885.4 | 3885.4 | 3771.9 | 3686.7 | 3656.5 | 3633.8 |
| 7.5° | 4093.4 | 4254.2 | 4360.2 | 4371.5 | 4356.4 | 4326.1 | 4161.5 | 4008.3 | 3953.5 | 3906.2 |
| 10° | 4407.4 | 4600.4 | 4719.6 | 4776.3 | 4747.9 | 4700.6 | 4496.3 | 4286.4 | 4220.2 | 4178.6 |
| 12.5° | 4647.7 | 4817.9 | 4897.4 | 4935.2 | 4931.4 | 4914.4 | 4747.9 | 4520.9 | 4451.0 | 4386.6 |
| 15° | 4802.8 | 4887.9 | 4857.6 | 4855.8 | 4882.2 | 4950.3 | 4899.3 | 4721.5 | 4640.1 | 4581.5 |
| 17.5° | 4903.0 | 4821.7 | 4687.4 | 4625.0 | 4681.7 | 4842.5 | 4959.8 | 4859.5 | 4785.8 | 4721.5 |
| 20° | 4939.0 | 4649.6 | 4454.7 | 4339.3 | 4405.6 | 4638.2 | 4927.6 | 4959.8 | 4897.4 | 4844.4 |
| 22.5° | 4897.4 | 4439.6 | 4174.8 | 4038.6 | 4102.9 | 4381.0 | 4833.1 | 5041.1 | 4999.5 | 4948.4 |
| 25° | 4795.2 | 4220.2 | 3902.4 | 3779.4 | 3849.4 | 4133.2 | 4664.7 | 5116.8 | 5118.7 | 5077.1 |
| 27.5° | 4668.5 | 4017.8 | 3711.3 | 3595.9 | 3664.0 | 3928.9 | 4500.1 | 5183.0 | 5249.2 | 5234.1 |
| 30° | 4539.9 | 3896.7 | 3620.5 | 3539.2 | 3590.3 | 3824.8 | 4331.8 | 5251.1 | 5383.5 | 5410.0 |
| 32.5° | 4481.2 | 3955.3 | 3834.3 | 3870.2 | 3804.0 | 3885.4 | 4271.2 | 5347.6 | 5546.2 | 5589.7 |
| 35° | 4558.8 | 4475.5 | 4782.0 | 4923.9 | 4689.3 | 4381.0 | 4348.8 | 5493.2 | 5775.1 | 5839.4 |
| 37.5° | 4935.2 | 5589.7 | 6047.5 | 6546.9 | 6140.2 | 5461.1 | 4732.8 | 5741.0 | 6102.3 | 6204.5 |
| 40° | 5754.3 | 6562.0 | 7388.6 | 8033.7 | 7418.9 | 6505.2 | 5463.0 | 6109.9 | 6552.5 | 6645.2 |
| 42.5° | 6526.0 | 7473.7 | 8612.5 | 9446.7 | 8648.4 | 7358.4 | 6249.9 | 6730.3 | 7146.5 | 7197.6 |
| 45° | 7282.7 | 8368.5 | 10093.6 | 11253.2 | 10169.3 | 8169.8 | 7053.8 | 7778.3 | 8092.3 | 8094.2 |
| 47.5° | 8169.8 | 9376.7 | 11951.2 | 13602.5 | 12187.6 | 9068.4 | 7808.6 | 9437.2 | 9874.2 | 9660.4 |
| 50° | 9231.0 | 10379.2 | 13863.6 | 16335.9 | 14648.6 | 10173.1 | 8767.6 | 11459.4 | 12055.2 | 11813.1 |
| 52.5° | 10651.6 | 11483.9 | 15970.8 | 19001.2 | 17330.9 | 11431.0 | 10157.9 | 14130.3 | 14327.0 | 13874.9 |
| 55° | 12651.1 | 13078.6 | 18675.8 | 22292.6 | 20325.3 | 12980.2 | 12191.4 | 17482.2 | 16931.8 | 15636.0 |
| 57.5° | 17204.2 | 15602.0 | 22148.8 | 26047.4 | 23713.2 | 15794.9 | 16648.0 | 21178.4 | 19220.6 | 17035.8 |
| 60° | 21013.9 | 18666.4 | 25362.7 | 29773.9 | 26616.8 | 18897.2 | 20832.3 | 21821.6 | 19135.5 | 16880.7 |
| 62.5° | 19729.5 | 19447.6 | 26522.2 | 30184.4 | 27608.0 | 20423.7 | 20054.8 | 20200.5 | 17887.0 | 15849.8 |
| 65° | 17310.1 | 17940.0 | 25487.5 | 28237.9 | 26509.0 | 19056.0 | 18140.5 | 18702.3 | 16458.9 | 14406.5 |
| 67.5° | 15881.9 | 16345.4 | 23647.0 | 25122.4 | 24511.4 | 17576.8 | 16651.8 | 16245.1 | 14241.9 | 12497.8 |
| 70° | 14421.6 | 14805.6 | 21063.0 | 21212.5 | 21396.0 | 15117.7 | 13615.8 | 12405.2 | 10615.7 | 9395.6 |
| 72.5° | 12461.9 | 12482.7 | 17796.2 | 16929.9 | 17277.9 | 11830.1 | 10960.0 | 9274.5 | 7727.2 | 6620.6 |
| 75° | 10454.9 | 9883.6 | 14086.8 | 11833.9 | 12531.9 | 9202.7 | 9100.5 | 6989.5 | 5828.0 | 4920.1 |
| 77.5° | 7971.2 | 7303.5 | 10290.3 | 7782.1 | 8801.6 | 6128.8 | 6841.9 | 4740.4 | 4101.0 | 3274.4 |
| 80° | 5351.4 | 4935.2 | 5686.2 | 4392.3 | 5758.1 | 4224.0 | 4462.3 | 2686.1 | 2328.6 | 1806.5 |
| 82.5° | 2822.3 | 2409.9 | 3514.6 | 2604.7 | 3473.0 | 2321.0 | 1674.1 | 830.4 | 707.5 | 571.3 |
| 85° | 1093.3 | 1265.5 | 1723.3 | 926.9 | 1346.8 | 828.5 | 484.3 | 206.2 | 172.1 | 130.5 |
| 87.5° | 211.9 | 327.2 | 179.7 | 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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