

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: P642934

Luminaire Tested: GWS-SA6D-830-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-830-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15258.8 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

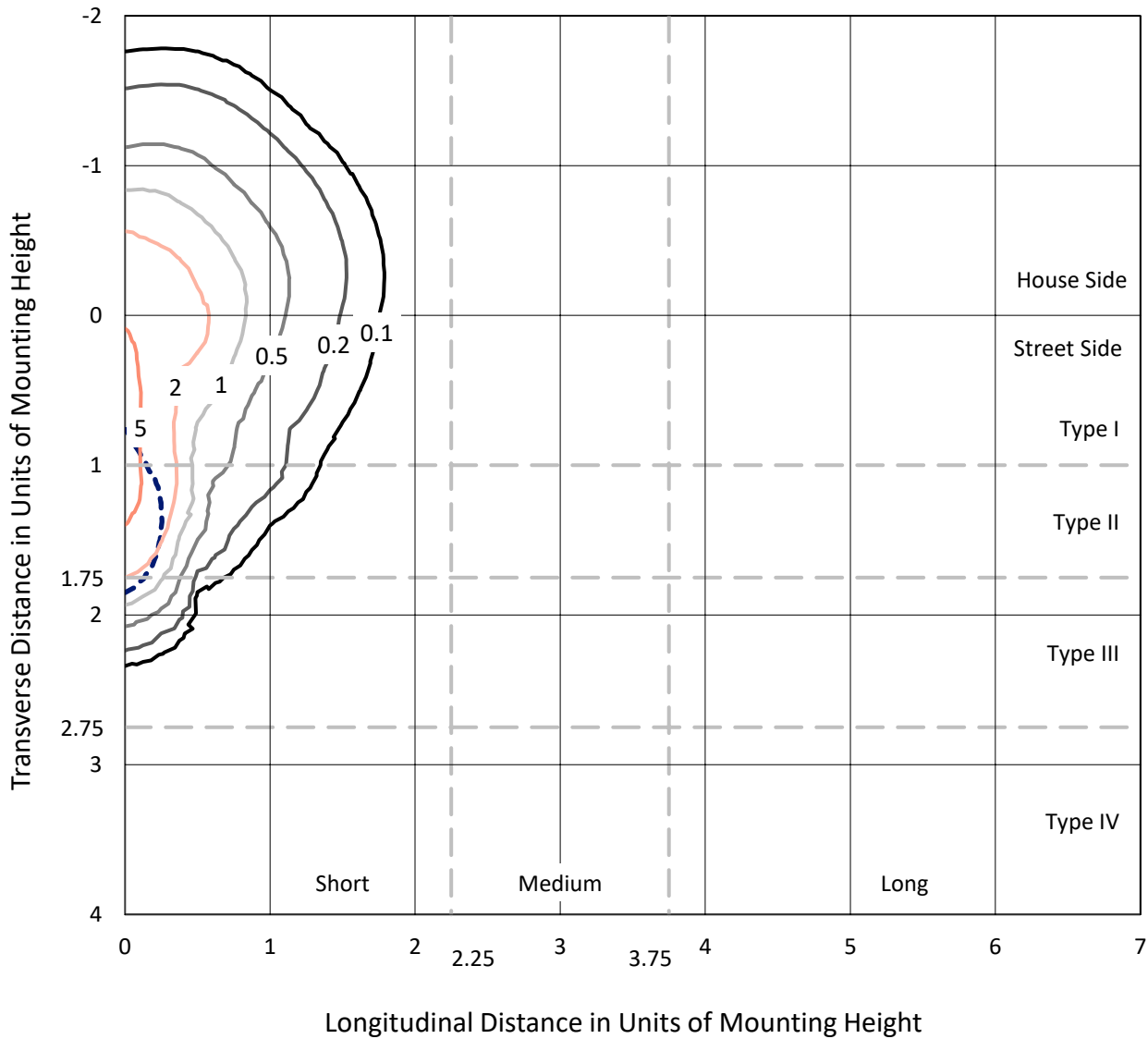
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

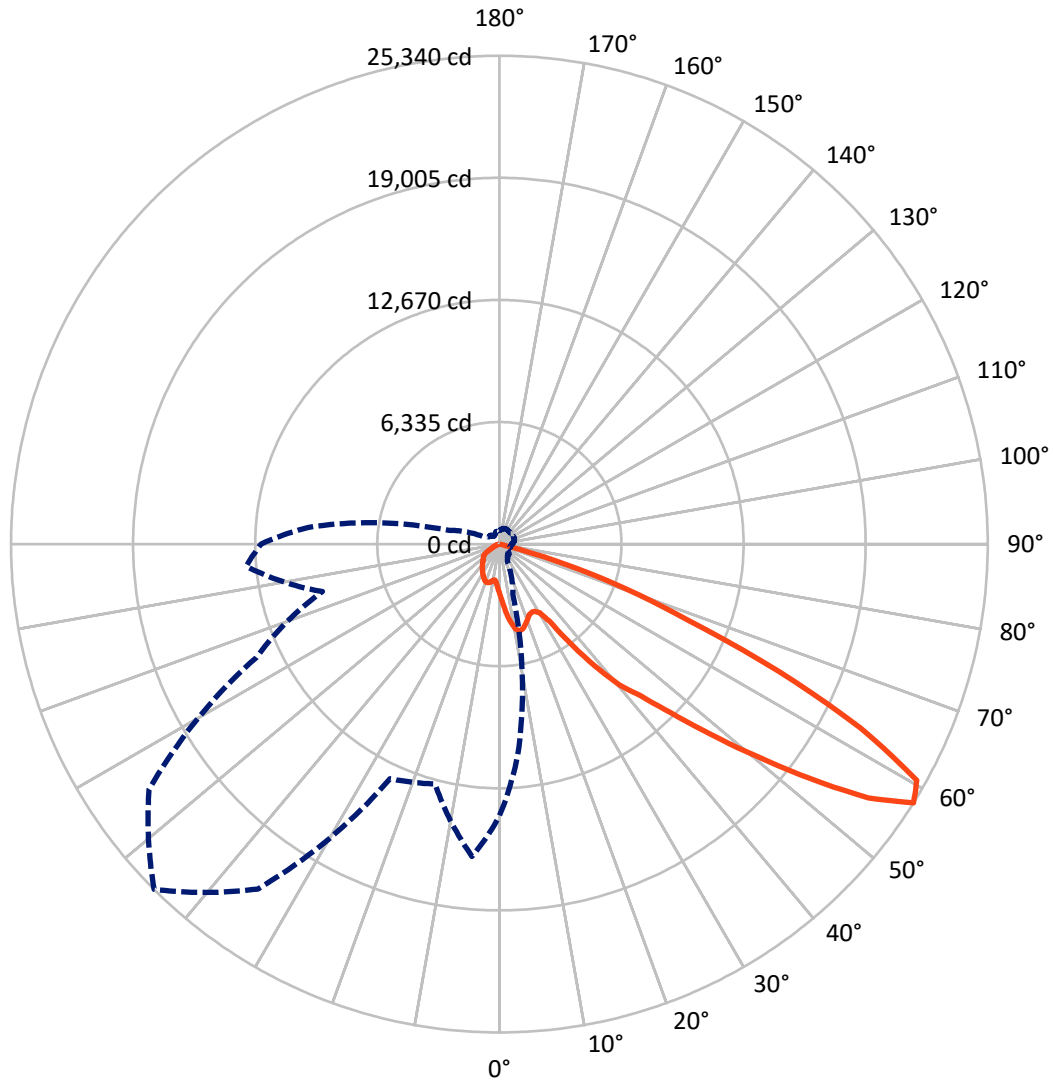
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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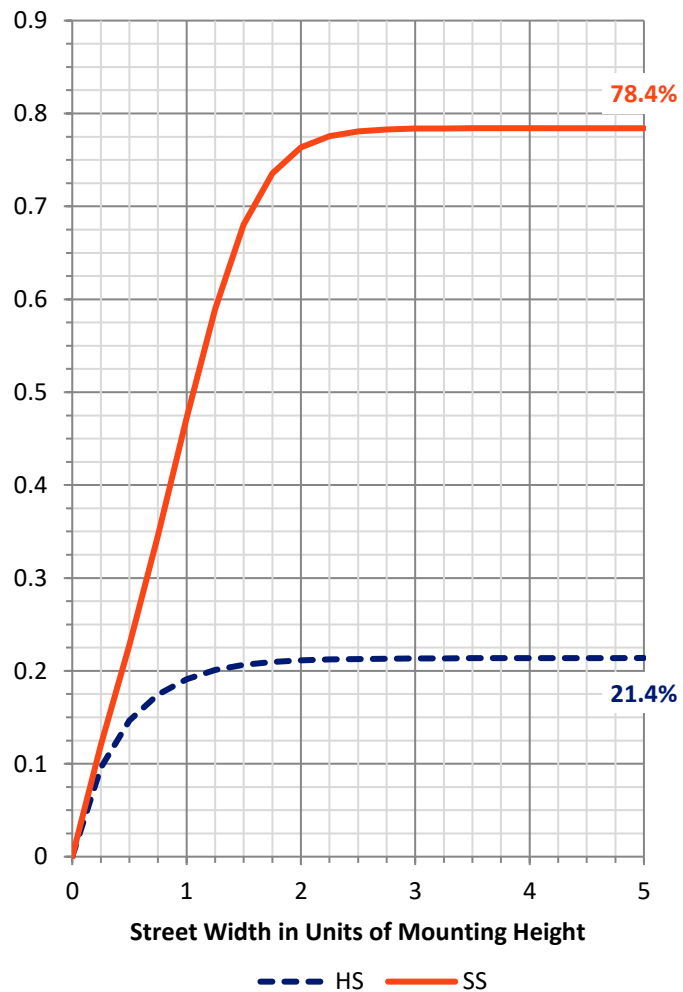
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3287.3 | 0.0 | 3287.3 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 11971.5 | 0.0 | 11971.5 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 15258.8 | 0.0 | 15258.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 256.3 | 1.7 |
| 10°-20° | 843.2 | 5.5 |
| 20°-30° | 1368.4 | 9.0 |
| 30°-40° | 2100.2 | 13.8 |
| 40°-50° | 3354.2 | 22.0 |
| 50°-60° | 4696.5 | 30.8 |
| 60°-70° | 2408.0 | 15.8 |
| 70°-80° | 231.8 | 1.5 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 15258.8 | 100.0 |
| 0°-180° | 15258.8 | 100.0 |

Coefficient of Utilization



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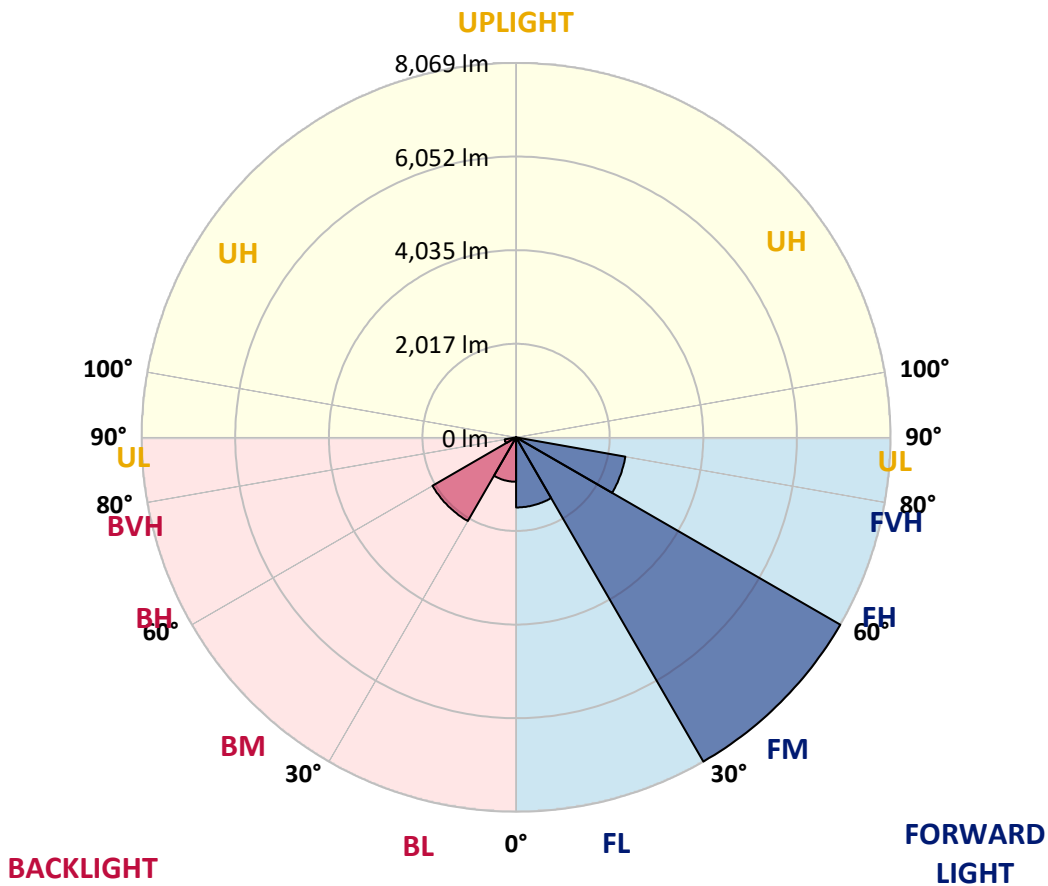
CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1510.7 | 9.9 | | | |
| FM (30°-60°) | 8069.2 | 52.9 | | | |
| FH (60°-80°) | 2391.6 | 15.7 | | | G2/5000 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 957.2 | 6.3 | B2/1000 | | |
| BM (30°-60°) | 2081.8 | 13.6 | B2/2500 | | |
| BH (60°-80°) | 248.3 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 |
| 2.5° | 2880.3 | 2874.2 | 2853.8 | 2784.4 | 2741.6 | 2674.3 | 2625.3 | 2562.1 | 2492.7 | 2449.9 | 2407.1 |
| 5° | 3186.3 | 3170.0 | 3114.9 | 2955.8 | 2833.4 | 2700.8 | 2594.7 | 2478.5 | 2354.0 | 2272.4 | 2197.0 |
| 7.5° | 3480.0 | 3455.6 | 3382.1 | 3112.9 | 2927.2 | 2737.5 | 2586.6 | 2417.3 | 2241.8 | 2119.4 | 2025.6 |
| 10° | 3767.7 | 3712.6 | 3596.3 | 3265.9 | 3015.0 | 2786.5 | 2609.0 | 2415.2 | 2209.2 | 2054.2 | 1950.1 |
| 12.5° | 4004.3 | 3963.5 | 3804.4 | 3410.7 | 3088.4 | 2796.7 | 2578.4 | 2398.9 | 2260.2 | 2156.2 | 2060.3 |
| 15° | 4208.3 | 4163.4 | 4012.5 | 3541.2 | 3151.6 | 2755.9 | 2449.9 | 2292.8 | 2315.3 | 2356.1 | 2274.5 |
| 17.5° | 4396.0 | 4349.0 | 4185.8 | 3649.4 | 3176.1 | 2655.9 | 2270.4 | 2194.9 | 2319.4 | 2472.3 | 2441.7 |
| 20° | 4589.7 | 4536.7 | 4336.8 | 3737.1 | 3167.9 | 2498.9 | 2088.8 | 2111.3 | 2286.7 | 2462.1 | 2478.5 |
| 22.5° | 4816.2 | 4761.1 | 4528.5 | 3849.3 | 3161.8 | 2311.2 | 1931.8 | 2037.8 | 2225.5 | 2374.4 | 2403.0 |
| 25° | 5116.0 | 5050.8 | 4795.8 | 4014.5 | 3178.1 | 2139.8 | 1819.6 | 1966.5 | 2121.5 | 2256.1 | 2272.4 |
| 27.5° | 5511.8 | 5428.1 | 5103.8 | 4218.5 | 3212.8 | 2005.2 | 1770.6 | 1868.5 | 1988.9 | 2109.2 | 2123.5 |
| 30° | 6027.9 | 5921.8 | 5456.7 | 4396.0 | 3196.5 | 1911.4 | 1738.0 | 1770.6 | 1842.0 | 1939.9 | 1942.0 |
| 32.5° | 6631.7 | 6486.8 | 5852.4 | 4548.9 | 3055.8 | 1842.0 | 1693.1 | 1670.7 | 1687.0 | 1762.5 | 1776.7 |
| 35° | 7341.6 | 7153.9 | 6289.0 | 4693.8 | 2798.7 | 1707.4 | 1611.5 | 1536.0 | 1529.9 | 1566.6 | 1601.3 |
| 37.5° | 8155.5 | 7931.1 | 6839.7 | 4879.4 | 2494.8 | 1566.6 | 1491.2 | 1415.7 | 1383.0 | 1401.4 | 1454.4 |
| 40° | 8906.1 | 8657.3 | 7415.0 | 5103.8 | 2184.7 | 1440.2 | 1350.4 | 1272.9 | 1234.1 | 1240.3 | 1305.5 |
| 42.5° | 9787.4 | 9530.4 | 8118.7 | 5397.5 | 1927.7 | 1354.5 | 1203.5 | 1124.0 | 1073.0 | 1101.5 | 1177.0 |
| 45° | 11125.5 | 10833.8 | 9144.8 | 5652.5 | 1723.7 | 1334.1 | 1075.0 | 962.8 | 938.3 | 987.3 | 1077.1 |
| 47.5° | 12953.3 | 12596.3 | 10554.4 | 5807.6 | 1550.3 | 1352.4 | 985.3 | 832.3 | 838.4 | 893.5 | 983.2 |
| 50° | 14766.7 | 14381.2 | 12184.2 | 5603.6 | 1407.5 | 1315.7 | 940.4 | 730.3 | 769.0 | 818.0 | 899.6 |
| 52.5° | 16013.1 | 15511.3 | 12977.8 | 5014.0 | 1277.0 | 1177.0 | 936.3 | 634.4 | 707.8 | 724.2 | 793.5 |
| 55° | 16062.1 | 15444.0 | 12571.8 | 3953.3 | 1099.5 | 993.4 | 893.5 | 554.8 | 640.5 | 646.6 | 705.8 |
| 57.5° | 14079.3 | 13520.4 | 10986.8 | 2715.1 | 977.1 | 728.2 | 711.9 | 485.5 | 526.3 | 577.3 | 614.0 |
| 60° | 10711.4 | 10236.2 | 8216.7 | 1244.3 | 742.5 | 463.1 | 487.5 | 418.2 | 393.7 | 469.2 | 505.9 |
| 62.5° | 6560.3 | 6256.3 | 4928.4 | 550.8 | 473.3 | 246.8 | 295.8 | 332.5 | 295.8 | 324.3 | 354.9 |
| 65° | 2604.9 | 2470.3 | 1870.6 | 234.6 | 193.8 | 124.4 | 134.6 | 193.8 | 208.1 | 228.5 | 257.0 |
| 67.5° | 452.9 | 428.4 | 314.1 | 104.0 | 79.6 | 75.5 | 65.3 | 89.8 | 126.5 | 140.8 | 163.2 |
| 70° | 59.2 | 57.1 | 51.0 | 42.8 | 40.8 | 36.7 | 28.6 | 57.1 | 85.7 | 89.8 | 104.0 |
| 72.5° | 14.3 | 12.2 | 12.2 | 10.2 | 12.2 | 4.1 | 4.1 | 30.6 | 61.2 | 63.2 | 73.4 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 | 38.8 | 42.8 | 51.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 |



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CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 |
| 2.5° | 2372.4 | 2331.6 | 2317.3 | 2296.9 | 2270.4 | 2278.6 | 2241.8 | 2229.6 | 2248.0 | 2272.4 | 2266.3 |
| 5° | 2156.2 | 2111.3 | 2080.7 | 2033.8 | 2025.6 | 2007.2 | 1995.0 | 1978.7 | 1999.1 | 2027.6 | 2033.8 |
| 7.5° | 1984.8 | 1946.1 | 1915.5 | 1901.2 | 1891.0 | 1882.8 | 1858.3 | 1846.1 | 1846.1 | 1858.3 | 1868.5 |
| 10° | 1911.4 | 1882.8 | 1876.7 | 1880.8 | 1897.1 | 1895.1 | 1872.6 | 1856.3 | 1835.9 | 1825.7 | 1837.9 |
| 12.5° | 2013.4 | 1966.5 | 1958.3 | 1960.3 | 1980.7 | 1978.7 | 1954.2 | 1933.8 | 1929.7 | 1933.8 | 1972.6 |
| 15° | 2186.8 | 2115.4 | 2062.3 | 2052.1 | 2062.3 | 2058.2 | 2039.9 | 2027.6 | 2033.8 | 2092.9 | 2158.2 |
| 17.5° | 2341.8 | 2231.6 | 2135.8 | 2099.0 | 2097.0 | 2090.9 | 2072.5 | 2068.4 | 2099.0 | 2209.2 | 2305.1 |
| 20° | 2386.7 | 2278.6 | 2141.9 | 2095.0 | 2084.8 | 2078.6 | 2058.2 | 2064.4 | 2103.1 | 2235.7 | 2317.3 |
| 22.5° | 2327.5 | 2223.5 | 2080.7 | 2033.8 | 2025.6 | 2023.6 | 2003.2 | 2011.3 | 2044.0 | 2160.2 | 2227.6 |
| 25° | 2215.3 | 2127.6 | 1978.7 | 1937.9 | 1937.9 | 1933.8 | 1915.5 | 1919.5 | 1939.9 | 2041.9 | 2107.2 |
| 27.5° | 2078.6 | 1995.0 | 1870.6 | 1829.8 | 1835.9 | 1842.0 | 1819.6 | 1813.5 | 1829.8 | 1925.7 | 1964.4 |
| 30° | 1921.6 | 1862.4 | 1764.5 | 1727.8 | 1725.7 | 1750.2 | 1719.6 | 1711.5 | 1733.9 | 1809.4 | 1817.5 |
| 32.5° | 1768.6 | 1740.0 | 1670.7 | 1642.1 | 1644.1 | 1648.2 | 1631.9 | 1631.9 | 1652.3 | 1693.1 | 1691.1 |
| 35° | 1619.7 | 1601.3 | 1589.1 | 1568.7 | 1566.6 | 1558.5 | 1558.5 | 1562.6 | 1585.0 | 1599.3 | 1572.8 |
| 37.5° | 1476.9 | 1495.2 | 1509.5 | 1489.1 | 1472.8 | 1472.8 | 1472.8 | 1491.2 | 1511.6 | 1505.4 | 1460.6 |
| 40° | 1350.4 | 1389.2 | 1434.0 | 1411.6 | 1372.8 | 1370.8 | 1379.0 | 1409.6 | 1440.2 | 1403.4 | 1362.6 |
| 42.5° | 1242.3 | 1291.2 | 1354.5 | 1342.2 | 1299.4 | 1293.3 | 1299.4 | 1338.2 | 1362.6 | 1315.7 | 1270.8 |
| 45° | 1136.2 | 1197.4 | 1272.9 | 1272.9 | 1226.0 | 1219.9 | 1221.9 | 1272.9 | 1287.2 | 1232.1 | 1175.0 |
| 47.5° | 1046.5 | 1113.8 | 1193.3 | 1193.3 | 1154.6 | 1142.3 | 1152.5 | 1205.6 | 1215.8 | 1138.3 | 1085.2 |
| 50° | 960.8 | 1034.2 | 1121.9 | 1115.8 | 1089.3 | 1079.1 | 1097.5 | 1154.6 | 1142.3 | 1056.7 | 1001.6 |
| 52.5° | 852.7 | 930.2 | 1050.5 | 1056.7 | 1042.4 | 1044.4 | 1066.9 | 1103.6 | 1068.9 | 964.9 | 917.9 |
| 55° | 754.8 | 834.3 | 954.7 | 987.3 | 987.3 | 985.3 | 995.5 | 1024.0 | 995.5 | 871.0 | 813.9 |
| 57.5° | 648.7 | 716.0 | 816.0 | 824.1 | 830.2 | 807.8 | 822.1 | 860.8 | 846.6 | 740.5 | 707.8 |
| 60° | 532.4 | 589.5 | 646.6 | 652.8 | 626.2 | 579.3 | 605.8 | 650.7 | 660.9 | 581.4 | 544.6 |
| 62.5° | 377.4 | 432.5 | 499.8 | 499.8 | 473.3 | 426.3 | 461.0 | 499.8 | 485.5 | 403.9 | 381.5 |
| 65° | 281.5 | 332.5 | 383.5 | 405.9 | 383.5 | 350.9 | 377.4 | 405.9 | 383.5 | 316.2 | 283.5 |
| 67.5° | 181.5 | 216.2 | 246.8 | 265.2 | 269.3 | 265.2 | 277.4 | 269.3 | 242.7 | 197.9 | 179.5 |
| 70° | 110.2 | 128.5 | 144.8 | 161.2 | 173.4 | 179.5 | 185.6 | 167.3 | 140.8 | 116.3 | 110.2 |
| 72.5° | 79.6 | 95.9 | 110.2 | 122.4 | 136.7 | 140.8 | 140.8 | 128.5 | 104.0 | 81.6 | 75.5 |
| 75° | 55.1 | 69.4 | 81.6 | 89.8 | 102.0 | 106.1 | 106.1 | 95.9 | 77.5 | 59.2 | 53.0 |
| 77.5° | 2.0 | 14.3 | 14.3 | 12.2 | 16.3 | 20.4 | 20.4 | 24.5 | 22.4 | 16.3 | 14.3 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 |



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CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 |
| 2.5° | 2278.6 | 2352.0 | 2372.4 | 2447.9 | 2515.2 | 2582.5 | 2664.1 | 2713.0 | 2786.5 | 2837.5 | 2866.0 |
| 5° | 2054.2 | 2115.4 | 2188.8 | 2301.0 | 2417.3 | 2545.8 | 2700.8 | 2835.4 | 3004.8 | 3129.2 | 3170.0 |
| 7.5° | 1891.0 | 1970.5 | 2056.2 | 2197.0 | 2356.1 | 2527.4 | 2745.7 | 2966.0 | 3225.1 | 3394.4 | 3502.5 |
| 10° | 1860.4 | 1942.0 | 2056.2 | 2194.9 | 2362.2 | 2558.0 | 2825.2 | 3110.8 | 3435.2 | 3641.2 | 3763.6 |
| 12.5° | 2007.2 | 2095.0 | 2143.9 | 2207.2 | 2333.6 | 2551.9 | 2894.6 | 3257.7 | 3639.2 | 3863.5 | 3994.1 |
| 15° | 2223.5 | 2301.0 | 2221.4 | 2141.9 | 2223.5 | 2486.6 | 2933.4 | 3380.1 | 3818.7 | 4077.7 | 4212.4 |
| 17.5° | 2372.4 | 2378.5 | 2205.1 | 2035.8 | 2058.2 | 2368.3 | 2947.6 | 3502.5 | 4010.4 | 4281.7 | 4422.5 |
| 20° | 2358.1 | 2309.2 | 2133.7 | 1946.1 | 1876.7 | 2215.3 | 2931.3 | 3610.6 | 4204.2 | 4487.8 | 4626.5 |
| 22.5° | 2248.0 | 2190.8 | 2041.9 | 1858.3 | 1723.7 | 2033.8 | 2902.8 | 3708.5 | 4381.7 | 4704.0 | 4834.5 |
| 25° | 2115.4 | 2054.2 | 1931.8 | 1770.6 | 1625.8 | 1858.3 | 2880.3 | 3843.1 | 4606.1 | 4985.5 | 5087.5 |
| 27.5° | 1960.3 | 1907.3 | 1803.3 | 1687.0 | 1585.0 | 1725.7 | 2874.2 | 4020.6 | 4877.4 | 5328.2 | 5399.6 |
| 30° | 1809.4 | 1760.4 | 1678.8 | 1611.5 | 1568.7 | 1648.2 | 2853.8 | 4210.3 | 5201.7 | 5721.9 | 5799.4 |
| 32.5° | 1664.5 | 1615.6 | 1564.6 | 1554.4 | 1556.4 | 1619.7 | 2784.4 | 4398.0 | 5587.3 | 6293.1 | 6350.2 |
| 35° | 1540.1 | 1483.0 | 1462.6 | 1487.1 | 1532.0 | 1570.7 | 2588.6 | 4553.0 | 6001.3 | 6915.2 | 6962.1 |
| 37.5° | 1421.8 | 1364.7 | 1362.6 | 1421.8 | 1470.8 | 1495.2 | 2358.1 | 4706.0 | 6560.3 | 7547.6 | 7606.7 |
| 40° | 1313.7 | 1256.6 | 1277.0 | 1348.4 | 1387.1 | 1399.4 | 2078.6 | 4938.6 | 7151.8 | 8214.6 | 8182.0 |
| 42.5° | 1221.9 | 1162.7 | 1175.0 | 1266.8 | 1301.4 | 1334.1 | 1821.6 | 5132.4 | 7721.0 | 8847.0 | 8836.8 |
| 45° | 1132.1 | 1087.3 | 1079.1 | 1179.1 | 1209.7 | 1340.2 | 1633.9 | 5281.3 | 8453.3 | 9652.7 | 9669.1 |
| 47.5° | 1044.4 | 1009.7 | 1011.8 | 1054.6 | 1130.1 | 1370.8 | 1474.8 | 5379.2 | 9516.1 | 10929.7 | 10646.2 |
| 50° | 964.9 | 938.3 | 960.8 | 911.8 | 1079.1 | 1332.0 | 1338.2 | 5358.8 | 10703.3 | 12153.6 | 11584.5 |
| 52.5° | 877.2 | 871.0 | 881.2 | 762.9 | 997.5 | 1175.0 | 1209.7 | 5087.5 | 11260.2 | 12990.0 | 12665.7 |
| 55° | 787.4 | 785.4 | 703.8 | 609.9 | 834.3 | 938.3 | 1036.3 | 4245.0 | 11241.8 | 13434.7 | 13828.4 |
| 57.5° | 681.3 | 665.0 | 534.5 | 497.7 | 648.7 | 652.8 | 944.5 | 2780.4 | 9962.8 | 12369.9 | 13185.8 |
| 60° | 516.1 | 503.9 | 391.7 | 403.9 | 452.9 | 418.2 | 752.7 | 1385.1 | 7445.6 | 9636.4 | 10556.4 |
| 62.5° | 357.0 | 340.7 | 291.7 | 312.1 | 291.7 | 238.7 | 461.0 | 685.4 | 4510.2 | 6085.0 | 6919.3 |
| 65° | 261.1 | 242.7 | 199.9 | 171.4 | 136.7 | 136.7 | 175.4 | 263.1 | 1746.1 | 2586.6 | 3119.0 |
| 67.5° | 161.2 | 153.0 | 118.3 | 85.7 | 83.6 | 89.8 | 91.8 | 130.6 | 281.5 | 448.8 | 548.7 |
| 70° | 104.0 | 95.9 | 79.6 | 55.1 | 51.0 | 53.0 | 55.1 | 61.2 | 71.4 | 77.5 | 93.8 |
| 72.5° | 71.4 | 67.3 | 57.1 | 30.6 | 24.5 | 26.5 | 28.6 | 28.6 | 34.7 | 32.6 | 38.8 |
| 75° | 51.0 | 46.9 | 40.8 | 14.3 | 8.2 | 10.2 | 12.2 | 10.2 | 12.2 | 8.2 | 10.2 |
| 77.5° | 14.3 | 14.3 | 10.2 | 2.0 | 0.0 | 2.0 | 4.1 | 4.1 | 2.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 |



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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 | 2592.7 |
| 2.5° | 2939.5 | 2986.4 | 3004.8 | 2978.2 | 3000.7 | 2964.0 | 2949.7 | 2894.6 | 2890.5 | 2880.3 |
| 5° | 3335.2 | 3441.3 | 3504.5 | 3543.3 | 3498.4 | 3449.4 | 3376.0 | 3249.5 | 3210.8 | 3186.3 |
| 7.5° | 3724.8 | 3890.1 | 3998.2 | 4049.2 | 4036.9 | 3937.0 | 3804.4 | 3592.2 | 3516.8 | 3480.0 |
| 10° | 4063.5 | 4265.4 | 4396.0 | 4459.2 | 4432.7 | 4345.0 | 4155.2 | 3890.1 | 3790.1 | 3767.7 |
| 12.5° | 4300.1 | 4485.7 | 4575.5 | 4630.5 | 4632.6 | 4597.9 | 4418.4 | 4151.2 | 4032.9 | 4004.3 |
| 15° | 4449.0 | 4528.5 | 4530.6 | 4563.2 | 4620.3 | 4697.9 | 4614.2 | 4377.6 | 4251.1 | 4208.3 |
| 17.5° | 4542.8 | 4455.1 | 4365.4 | 4373.5 | 4467.4 | 4673.4 | 4759.1 | 4577.5 | 4442.9 | 4396.0 |
| 20° | 4610.1 | 4332.7 | 4165.4 | 4167.5 | 4263.4 | 4575.5 | 4859.0 | 4771.3 | 4632.6 | 4589.7 |
| 22.5° | 4653.0 | 4224.6 | 3985.9 | 3979.8 | 4081.8 | 4459.2 | 4950.8 | 5001.8 | 4865.1 | 4816.2 |
| 25° | 4740.7 | 4173.6 | 3877.8 | 3912.5 | 4002.3 | 4422.5 | 5075.2 | 5307.8 | 5181.3 | 5116.0 |
| 27.5° | 4897.8 | 4224.6 | 3867.6 | 3947.2 | 4049.2 | 4530.6 | 5291.5 | 5715.8 | 5585.2 | 5511.8 |
| 30° | 5169.1 | 4416.4 | 4024.7 | 4134.9 | 4257.2 | 4814.1 | 5654.6 | 6284.9 | 6097.2 | 6027.9 |
| 32.5° | 5605.6 | 4814.1 | 4510.2 | 4746.8 | 4865.1 | 5279.2 | 6199.2 | 6923.4 | 6770.4 | 6631.7 |
| 35° | 6207.4 | 5721.9 | 5687.2 | 6238.0 | 6209.4 | 6160.5 | 6868.3 | 7706.7 | 7476.2 | 7341.6 |
| 37.5° | 7035.6 | 7182.4 | 7439.5 | 7986.2 | 7967.8 | 7594.5 | 7747.5 | 8447.2 | 8328.9 | 8155.5 |
| 40° | 8069.8 | 8381.9 | 8818.4 | 9601.7 | 9357.0 | 8887.8 | 8826.6 | 9206.0 | 9110.1 | 8906.1 |
| 42.5° | 8679.7 | 9218.2 | 10050.5 | 10754.3 | 10558.5 | 9738.4 | 9669.1 | 10219.8 | 10009.7 | 9787.4 |
| 45° | 8963.3 | 9899.6 | 11531.5 | 12484.1 | 11890.5 | 10303.5 | 10277.0 | 11541.7 | 11423.4 | 11125.5 |
| 47.5° | 9093.8 | 10587.0 | 13265.4 | 14707.6 | 13597.9 | 10799.2 | 10703.3 | 13459.2 | 13304.1 | 12953.3 |
| 50° | 9238.6 | 11535.6 | 15354.2 | 17284.0 | 15660.2 | 11360.1 | 11429.5 | 15246.1 | 15180.8 | 14766.7 |
| 52.5° | 9556.9 | 12539.2 | 17926.5 | 20229.6 | 18161.1 | 12239.3 | 12675.9 | 16931.1 | 16490.4 | 16013.1 |
| 55° | 10034.2 | 13632.6 | 20602.9 | 23238.4 | 20713.0 | 13420.4 | 14024.2 | 17826.6 | 16590.4 | 16062.1 |
| 57.5° | 9505.9 | 13905.9 | 22187.8 | 25339.5 | 21845.1 | 13424.5 | 12883.9 | 16274.2 | 14591.3 | 14079.3 |
| 60° | 7543.5 | 12937.0 | 21577.9 | 24884.6 | 20880.3 | 11921.1 | 9864.9 | 12706.5 | 11054.1 | 10711.4 |
| 62.5° | 5099.7 | 10850.2 | 18995.4 | 21045.5 | 17871.4 | 9377.4 | 6411.4 | 8263.6 | 6843.8 | 6560.3 |
| 65° | 2794.6 | 8094.3 | 15348.1 | 15921.3 | 13987.5 | 6550.1 | 3298.5 | 3586.1 | 2731.4 | 2604.9 |
| 67.5° | 771.1 | 5634.2 | 11292.8 | 10562.5 | 9813.9 | 4265.4 | 852.7 | 640.5 | 456.9 | 452.9 |
| 70° | 193.8 | 3726.9 | 6766.3 | 6974.4 | 6017.7 | 2731.4 | 163.2 | 77.5 | 61.2 | 59.2 |
| 72.5° | 81.6 | 1603.4 | 3210.8 | 3690.2 | 3080.2 | 1264.7 | 59.2 | 22.4 | 18.4 | 14.3 |
| 75° | 10.2 | 128.5 | 273.3 | 414.1 | 283.5 | 136.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |

(END OF REPORT)