

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: P638482

Luminaire Tested: GWS-SA4E-830-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638482
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-SA4E-830-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22784.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

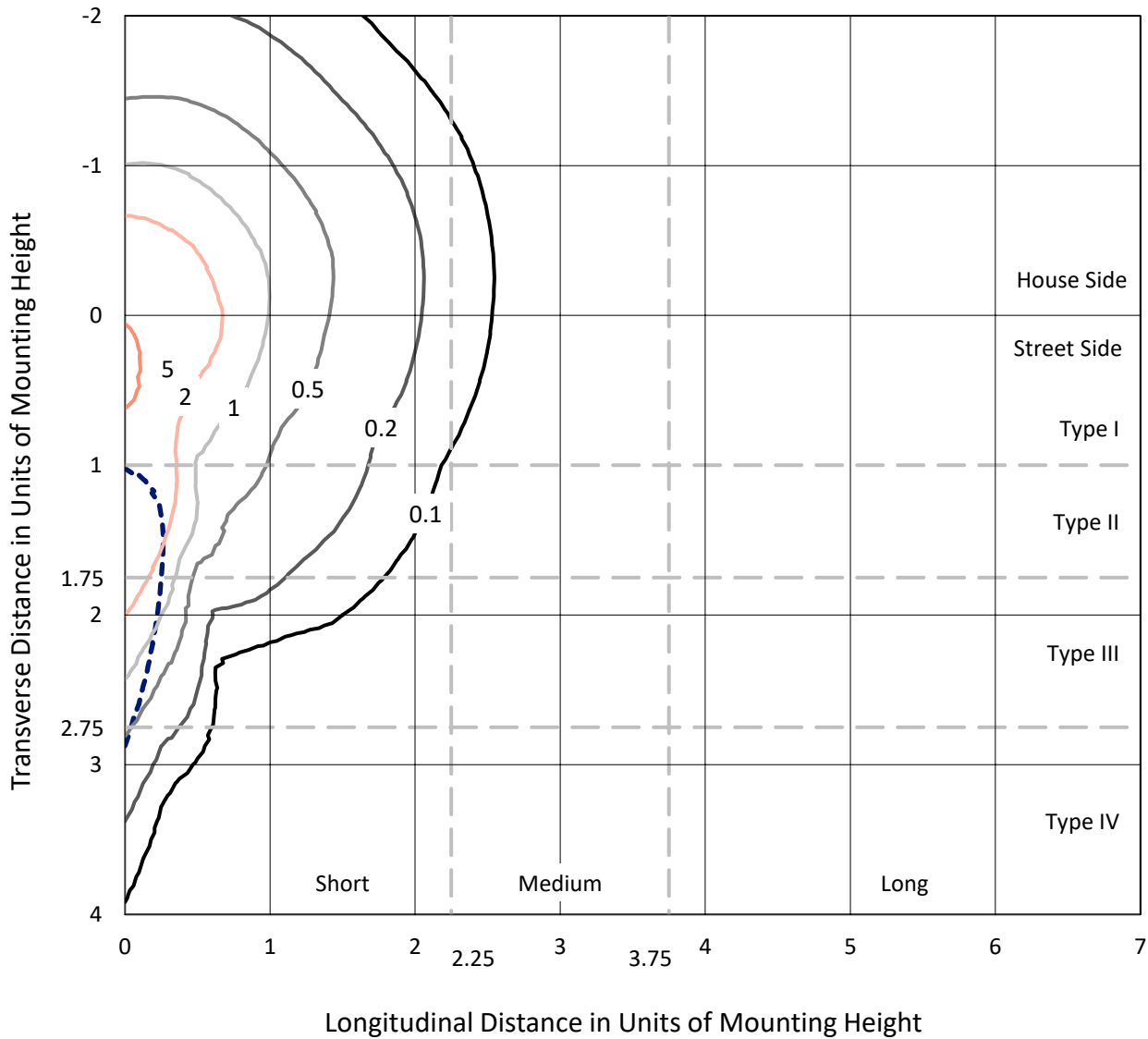
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638482
 CATALOG NUMBER: GWS-SA4E-830-U-SLL-W

Iso-Footcandle Lines of Horizontal Illumination

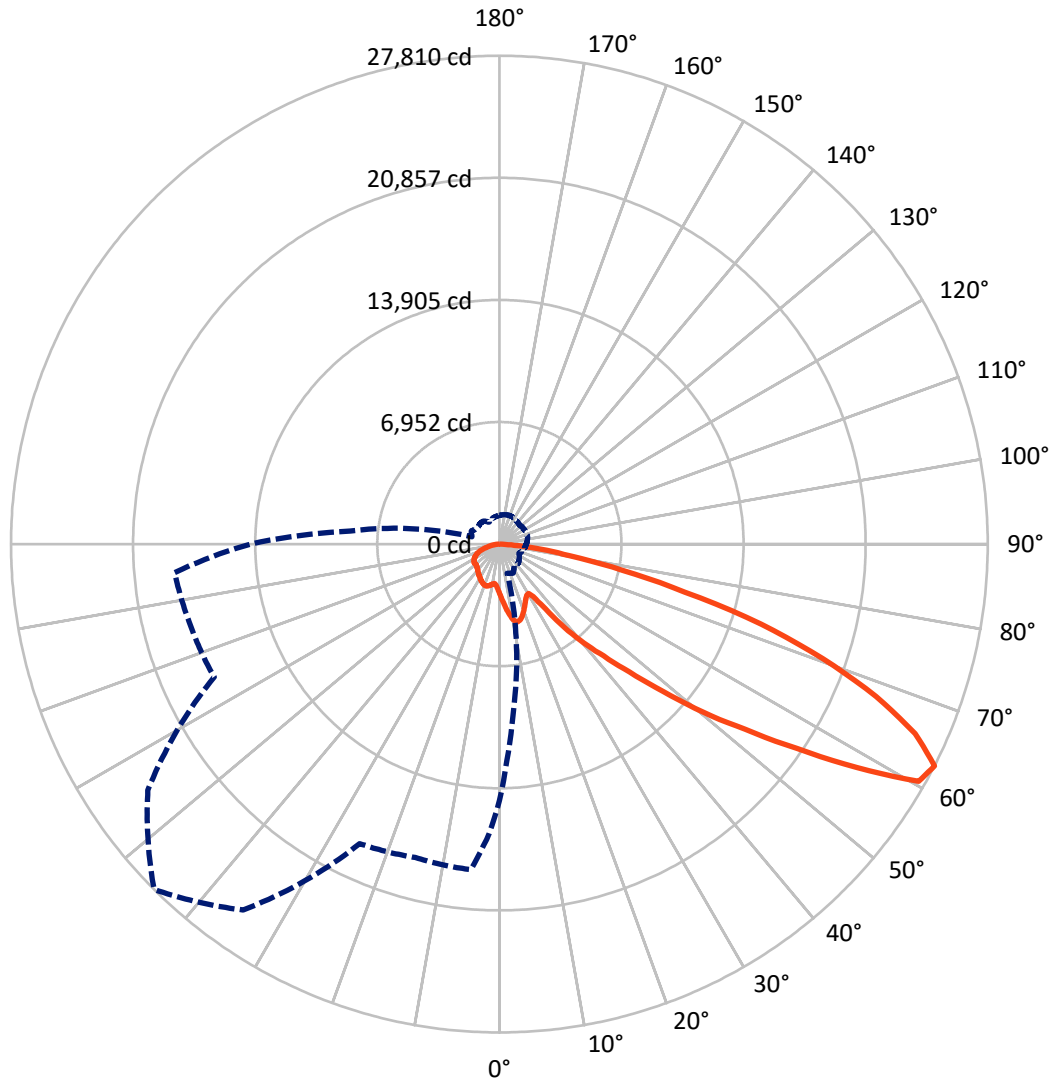
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

REPORT NUMBER: P638482
CATALOG NUMBER: GWS-SA4E-830-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-SA4E-830-U-SLL-W

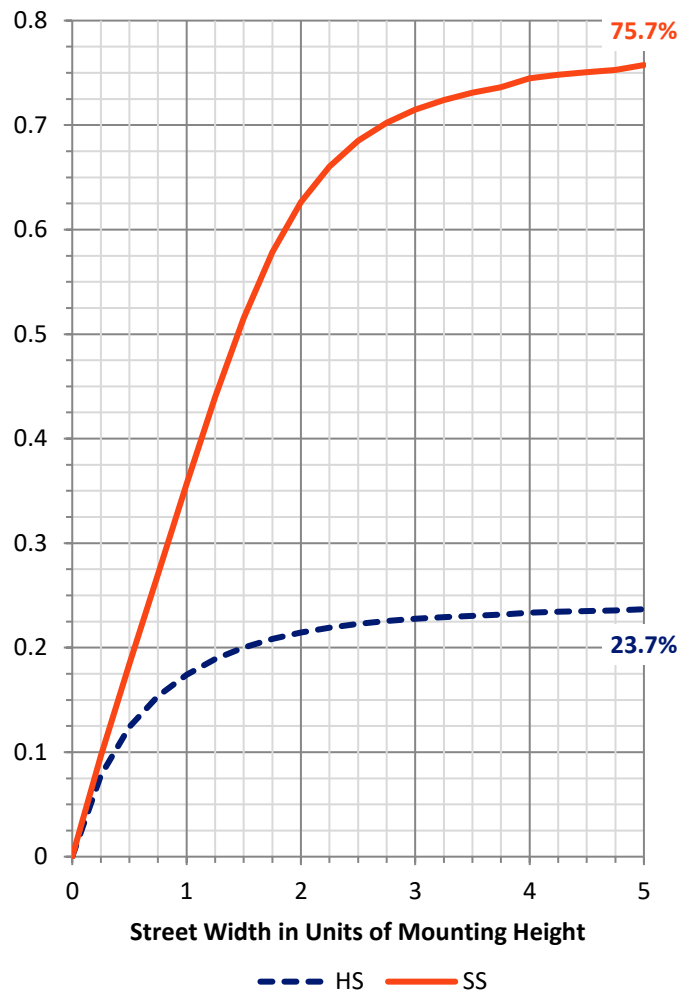
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5447.8 | 0.0 | 5447.8 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 17336.8 | 0.0 | 17336.8 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 22784.6 | 0.0 | 22784.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 279.9 | 1.2 |
| 10°-20° | 909.5 | 4.0 |
| 20°-30° | 1431.8 | 6.3 |
| 30°-40° | 1962.6 | 8.6 |
| 40°-50° | 3062.2 | 13.4 |
| 50°-60° | 5279.9 | 23.2 |
| 60°-70° | 6118.7 | 26.9 |
| 70°-80° | 3229.8 | 14.2 |
| 80°-90° | 510.2 | 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° | 22784.6 | 100.0 |
| 0°-180° | 22784.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P638482

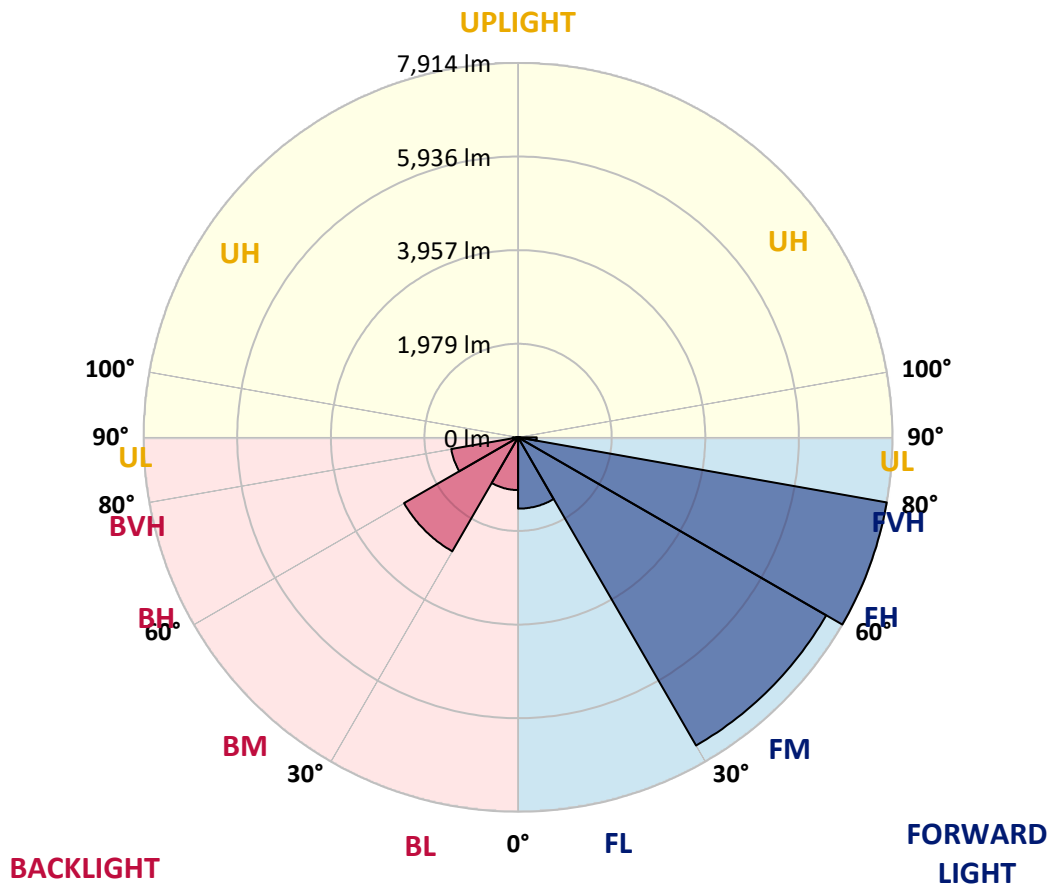
CATALOG NUMBER: GWS-SA4E-830-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1506.9 | 6.6 | | | |
| FM (30°-60°) | 7522.0 | 33.0 | | | |
| FH (60°-80°) | 7914.1 | 34.7 | | | G4/12000 |
| FVH (80°-90°) | 393.8 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1114.3 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 2782.7 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 1434.4 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 116.4 | 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





REPORT NUMBER: P638482
 CATALOG NUMBER: GWS-SA4E-830-U-SLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 |
| 2.5° | 3086.5 | 3074.3 | 3056.9 | 2997.6 | 2961.0 | 2919.2 | 2875.6 | 2825.1 | 2767.6 | 2727.5 | 2687.4 |
| 5° | 3347.9 | 3328.8 | 3286.9 | 3145.8 | 3048.2 | 2941.9 | 2853.0 | 2751.9 | 2652.5 | 2584.6 | 2516.6 |
| 7.5° | 3598.9 | 3574.5 | 3510.0 | 3293.9 | 3135.3 | 2981.9 | 2847.7 | 2701.3 | 2553.2 | 2452.1 | 2372.0 |
| 10° | 3849.9 | 3799.3 | 3717.4 | 3435.1 | 3225.9 | 3048.2 | 2894.8 | 2715.3 | 2518.3 | 2380.7 | 2295.3 |
| 12.5° | 4041.6 | 3994.5 | 3905.6 | 3564.0 | 3316.6 | 3093.5 | 2920.9 | 2755.4 | 2588.1 | 2441.7 | 2354.5 |
| 15° | 4221.1 | 4160.1 | 4059.0 | 3684.3 | 3391.5 | 3091.7 | 2868.7 | 2724.0 | 2699.6 | 2663.0 | 2549.7 |
| 17.5° | 4350.0 | 4294.3 | 4189.7 | 3781.9 | 3433.3 | 3037.7 | 2724.0 | 2638.6 | 2748.4 | 2859.9 | 2751.9 |
| 20° | 4463.3 | 4398.8 | 4292.5 | 3849.9 | 3442.0 | 2917.5 | 2548.0 | 2549.7 | 2722.3 | 2875.6 | 2849.5 |
| 22.5° | 4559.2 | 4487.7 | 4393.6 | 3926.5 | 3438.5 | 2750.1 | 2394.6 | 2499.2 | 2671.7 | 2792.0 | 2795.5 |
| 25° | 4677.7 | 4618.4 | 4540.0 | 4039.8 | 3438.5 | 2579.3 | 2283.1 | 2438.2 | 2586.3 | 2687.4 | 2683.9 |
| 27.5° | 4822.3 | 4782.2 | 4717.8 | 4212.4 | 3469.9 | 2436.4 | 2220.3 | 2359.8 | 2476.5 | 2563.7 | 2561.9 |
| 30° | 4984.4 | 4947.8 | 4899.0 | 4395.3 | 3523.9 | 2330.1 | 2185.5 | 2262.2 | 2347.6 | 2417.3 | 2417.3 |
| 32.5° | 5150.0 | 5136.0 | 5083.8 | 4541.7 | 3482.1 | 2297.0 | 2155.8 | 2164.6 | 2209.9 | 2267.4 | 2262.2 |
| 35° | 5380.0 | 5366.1 | 5299.9 | 4655.0 | 3300.9 | 2250.0 | 2108.8 | 2065.2 | 2070.4 | 2107.0 | 2119.2 |
| 37.5° | 5716.4 | 5695.5 | 5597.9 | 4787.5 | 3027.2 | 2131.4 | 2032.1 | 1960.7 | 1945.0 | 1960.7 | 1983.3 |
| 40° | 6122.5 | 6091.1 | 5958.6 | 4967.0 | 2711.8 | 1971.1 | 1911.9 | 1852.6 | 1826.5 | 1831.7 | 1857.8 |
| 42.5° | 6631.4 | 6565.1 | 6375.2 | 5157.0 | 2399.8 | 1829.9 | 1777.7 | 1741.1 | 1711.4 | 1707.9 | 1758.5 |
| 45° | 7457.5 | 7276.2 | 6974.7 | 5326.0 | 2136.7 | 1755.0 | 1657.4 | 1631.3 | 1606.9 | 1620.8 | 1680.1 |
| 47.5° | 8900.5 | 8565.9 | 7978.5 | 5470.7 | 1976.3 | 1756.7 | 1561.6 | 1533.7 | 1531.9 | 1559.8 | 1626.0 |
| 50° | 10883.8 | 10401.0 | 9494.8 | 5568.3 | 1892.7 | 1777.7 | 1504.0 | 1458.7 | 1491.8 | 1519.7 | 1582.5 |
| 52.5° | 12783.5 | 12046.2 | 10967.5 | 5566.5 | 1856.1 | 1781.1 | 1519.7 | 1389.0 | 1491.8 | 1498.8 | 1558.1 |
| 55° | 14406.0 | 13071.0 | 11364.8 | 4994.9 | 1803.8 | 1767.2 | 1580.7 | 1335.0 | 1472.7 | 1498.8 | 1545.9 |
| 57.5° | 15695.7 | 13722.8 | 11335.2 | 4034.6 | 1962.4 | 1690.5 | 1617.3 | 1322.8 | 1416.9 | 1502.3 | 1556.3 |
| 60° | 15552.8 | 13424.8 | 10605.0 | 2476.5 | 1946.7 | 1554.6 | 1612.1 | 1345.4 | 1322.8 | 1455.2 | 1544.1 |
| 62.5° | 14602.9 | 12356.5 | 9348.4 | 1718.4 | 1828.2 | 1476.2 | 1526.7 | 1385.5 | 1235.6 | 1387.3 | 1484.9 |
| 65° | 13273.2 | 10977.9 | 7790.3 | 1317.6 | 1514.5 | 1479.6 | 1382.0 | 1357.6 | 1159.0 | 1279.2 | 1383.8 |
| 67.5° | 11514.7 | 9268.2 | 6150.3 | 1043.9 | 1056.1 | 1281.0 | 1254.8 | 1206.0 | 1087.5 | 1183.4 | 1277.5 |
| 70° | 8656.5 | 6763.8 | 4231.5 | 840.0 | 799.9 | 1070.1 | 1127.6 | 1084.0 | 1017.8 | 1045.7 | 1145.0 |
| 72.5° | 6099.8 | 4416.3 | 2317.9 | 665.8 | 617.0 | 822.6 | 979.5 | 972.5 | 899.3 | 920.2 | 1017.8 |
| 75° | 4533.0 | 3124.8 | 1448.3 | 526.3 | 501.9 | 589.1 | 820.9 | 841.8 | 780.8 | 805.2 | 880.1 |
| 77.5° | 3016.8 | 2023.4 | 805.2 | 390.4 | 390.4 | 430.5 | 611.7 | 709.3 | 664.0 | 683.2 | 735.5 |
| 80° | 1664.4 | 1030.0 | 402.6 | 256.2 | 263.2 | 296.3 | 446.2 | 510.6 | 512.4 | 559.4 | 573.4 |
| 82.5° | 526.3 | 327.6 | 179.5 | 149.9 | 141.2 | 169.1 | 287.6 | 366.0 | 341.6 | 435.7 | 400.8 |
| 85° | 120.3 | 76.7 | 33.1 | 33.1 | 36.6 | 55.8 | 109.8 | 195.2 | 249.2 | 299.8 | 217.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 76.7 | 113.3 | 101.1 |
| 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: P638482
 CATALOG NUMBER: GWS-SA4E-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 |
| 2.5° | 2663.0 | 2628.1 | 2617.7 | 2588.1 | 2584.6 | 2556.7 | 2546.2 | 2546.2 | 2558.4 | 2558.4 | 2570.6 |
| 5° | 2488.7 | 2445.2 | 2420.8 | 2385.9 | 2377.2 | 2356.3 | 2342.3 | 2344.1 | 2359.8 | 2370.2 | 2391.1 |
| 7.5° | 2335.4 | 2305.7 | 2288.3 | 2272.6 | 2269.1 | 2265.6 | 2250.0 | 2248.2 | 2253.4 | 2269.1 | 2284.8 |
| 10° | 2270.9 | 2250.0 | 2255.2 | 2267.4 | 2286.6 | 2297.0 | 2283.1 | 2276.1 | 2270.9 | 2281.3 | 2295.3 |
| 12.5° | 2333.6 | 2312.7 | 2323.2 | 2344.1 | 2370.2 | 2380.7 | 2375.4 | 2373.7 | 2378.9 | 2419.0 | 2448.6 |
| 15° | 2471.3 | 2431.2 | 2417.3 | 2426.0 | 2446.9 | 2457.4 | 2452.1 | 2459.1 | 2492.2 | 2596.8 | 2671.7 |
| 17.5° | 2642.1 | 2544.5 | 2488.7 | 2473.0 | 2481.8 | 2490.5 | 2490.5 | 2507.9 | 2565.4 | 2718.8 | 2812.9 |
| 20° | 2734.5 | 2607.2 | 2513.1 | 2474.8 | 2478.3 | 2487.0 | 2487.0 | 2511.4 | 2575.9 | 2739.7 | 2800.7 |
| 22.5° | 2710.1 | 2593.3 | 2478.3 | 2436.4 | 2438.2 | 2445.2 | 2445.2 | 2466.1 | 2523.6 | 2668.2 | 2696.1 |
| 25° | 2614.2 | 2511.4 | 2398.1 | 2361.5 | 2365.0 | 2377.2 | 2373.7 | 2385.9 | 2429.5 | 2548.0 | 2563.7 |
| 27.5° | 2499.2 | 2408.6 | 2297.0 | 2269.1 | 2284.8 | 2309.2 | 2288.3 | 2290.0 | 2330.1 | 2429.5 | 2431.2 |
| 30° | 2375.4 | 2300.5 | 2201.2 | 2180.2 | 2209.9 | 2222.1 | 2202.9 | 2202.9 | 2243.0 | 2311.0 | 2309.2 |
| 32.5° | 2241.2 | 2194.2 | 2122.7 | 2100.1 | 2133.2 | 2152.4 | 2128.0 | 2131.4 | 2162.8 | 2208.1 | 2190.7 |
| 35° | 2115.8 | 2091.4 | 2058.2 | 2042.6 | 2063.5 | 2080.9 | 2065.2 | 2072.2 | 2101.8 | 2114.0 | 2089.6 |
| 37.5° | 1995.5 | 1992.0 | 1995.5 | 1995.5 | 2000.7 | 2006.0 | 1995.5 | 2012.9 | 2039.1 | 2023.4 | 1995.5 |
| 40° | 1890.9 | 1904.9 | 1938.0 | 1929.3 | 1924.1 | 1929.3 | 1922.3 | 1951.9 | 1978.1 | 1950.2 | 1917.1 |
| 42.5° | 1803.8 | 1829.9 | 1880.5 | 1880.5 | 1870.0 | 1873.5 | 1870.0 | 1906.6 | 1925.8 | 1887.5 | 1850.9 |
| 45° | 1728.9 | 1767.2 | 1831.7 | 1840.4 | 1823.0 | 1823.0 | 1829.9 | 1875.3 | 1882.2 | 1829.9 | 1791.6 |
| 47.5° | 1676.6 | 1723.6 | 1796.8 | 1812.5 | 1786.4 | 1784.6 | 1803.8 | 1852.6 | 1852.6 | 1791.6 | 1748.0 |
| 50° | 1640.0 | 1692.3 | 1779.4 | 1800.3 | 1774.2 | 1767.2 | 1798.6 | 1845.6 | 1835.2 | 1762.0 | 1718.4 |
| 52.5° | 1615.6 | 1669.6 | 1777.7 | 1807.3 | 1789.9 | 1782.9 | 1814.3 | 1847.4 | 1821.2 | 1742.8 | 1697.5 |
| 55° | 1599.9 | 1659.1 | 1782.9 | 1807.3 | 1788.1 | 1775.9 | 1807.3 | 1836.9 | 1823.0 | 1732.3 | 1688.8 |
| 57.5° | 1608.6 | 1667.9 | 1775.9 | 1788.1 | 1765.5 | 1744.5 | 1781.1 | 1823.0 | 1817.7 | 1735.8 | 1692.3 |
| 60° | 1594.7 | 1648.7 | 1737.6 | 1741.1 | 1702.7 | 1669.6 | 1723.6 | 1786.4 | 1786.4 | 1723.6 | 1685.3 |
| 62.5° | 1530.2 | 1584.2 | 1662.6 | 1666.1 | 1622.5 | 1586.0 | 1648.7 | 1723.6 | 1721.9 | 1671.3 | 1631.3 |
| 65° | 1423.9 | 1474.4 | 1563.3 | 1572.0 | 1528.4 | 1490.1 | 1554.6 | 1624.3 | 1629.5 | 1584.2 | 1549.4 |
| 67.5° | 1307.1 | 1352.4 | 1418.6 | 1453.5 | 1416.9 | 1376.8 | 1436.1 | 1502.3 | 1500.6 | 1446.5 | 1409.9 |
| 70° | 1167.7 | 1209.5 | 1270.5 | 1300.1 | 1277.5 | 1239.1 | 1293.2 | 1328.0 | 1312.3 | 1286.2 | 1261.8 |
| 72.5° | 1030.0 | 1070.1 | 1127.6 | 1127.6 | 1103.2 | 1066.6 | 1082.3 | 1145.0 | 1164.2 | 1145.0 | 1129.3 |
| 75° | 885.3 | 920.2 | 960.3 | 969.0 | 915.0 | 848.7 | 921.9 | 976.0 | 998.6 | 989.9 | 970.7 |
| 77.5° | 737.2 | 763.3 | 822.6 | 806.9 | 705.8 | 671.0 | 730.2 | 810.4 | 826.1 | 820.9 | 794.7 |
| 80° | 568.2 | 583.8 | 646.6 | 615.2 | 536.8 | 514.1 | 540.3 | 603.0 | 606.5 | 589.1 | 556.0 |
| 82.5° | 381.7 | 402.6 | 444.4 | 383.4 | 381.7 | 360.8 | 339.8 | 346.8 | 378.2 | 374.7 | 352.0 |
| 85° | 195.2 | 205.7 | 245.7 | 230.0 | 196.9 | 170.8 | 162.1 | 172.5 | 155.1 | 141.2 | 122.0 |
| 87.5° | 81.9 | 88.9 | 122.0 | 68.0 | 20.9 | 0.0 | 0.0 | 10.5 | 15.7 | 22.7 | 24.4 |
| 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-SA4E-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 |
| 2.5° | 2598.5 | 2617.7 | 2664.7 | 2724.0 | 2781.5 | 2840.8 | 2905.3 | 2945.3 | 2994.1 | 3056.9 | 3058.6 |
| 5° | 2417.3 | 2460.8 | 2528.8 | 2619.4 | 2713.5 | 2821.6 | 2947.1 | 3051.6 | 3177.1 | 3276.5 | 3316.6 |
| 7.5° | 2305.7 | 2368.5 | 2453.9 | 2568.9 | 2692.6 | 2826.8 | 2990.6 | 3166.7 | 3372.3 | 3504.8 | 3583.2 |
| 10° | 2316.2 | 2412.0 | 2497.4 | 2595.0 | 2706.6 | 2851.2 | 3062.1 | 3295.6 | 3548.3 | 3722.6 | 3820.2 |
| 12.5° | 2502.7 | 2603.7 | 2588.1 | 2582.8 | 2657.8 | 2833.8 | 3119.6 | 3426.3 | 3734.8 | 3909.1 | 4025.9 |
| 15° | 2737.9 | 2776.3 | 2628.1 | 2516.6 | 2561.9 | 2771.1 | 3151.0 | 3543.1 | 3889.9 | 4102.6 | 4217.6 |
| 17.5° | 2858.2 | 2781.5 | 2602.0 | 2434.7 | 2422.5 | 2675.2 | 3166.7 | 3661.6 | 4064.2 | 4276.8 | 4398.8 |
| 20° | 2802.4 | 2690.9 | 2539.3 | 2380.7 | 2293.5 | 2544.5 | 3158.0 | 3755.7 | 4222.8 | 4459.8 | 4559.2 |
| 22.5° | 2682.2 | 2584.6 | 2466.1 | 2314.4 | 2189.0 | 2401.6 | 3135.3 | 3849.9 | 4364.0 | 4602.7 | 4689.9 |
| 25° | 2551.5 | 2478.3 | 2380.7 | 2248.2 | 2129.7 | 2276.1 | 3119.6 | 3975.3 | 4526.1 | 4754.4 | 4810.1 |
| 27.5° | 2420.8 | 2366.7 | 2286.6 | 2183.7 | 2115.8 | 2189.0 | 3124.8 | 4139.2 | 4735.2 | 4951.3 | 4928.6 |
| 30° | 2291.8 | 2244.7 | 2189.0 | 2143.6 | 2114.0 | 2168.0 | 3110.9 | 4313.4 | 4965.2 | 5165.7 | 5031.5 |
| 32.5° | 2169.8 | 2126.2 | 2091.4 | 2098.3 | 2115.8 | 2176.8 | 3039.4 | 4472.0 | 5176.1 | 5346.9 | 5143.0 |
| 35° | 2065.2 | 2019.9 | 2019.9 | 2044.3 | 2108.8 | 2147.1 | 2854.7 | 4595.8 | 5409.7 | 5580.5 | 5301.6 |
| 37.5° | 1967.6 | 1927.5 | 1953.7 | 1993.8 | 2054.8 | 2067.0 | 2617.7 | 4716.0 | 5749.5 | 5909.8 | 5547.3 |
| 40° | 1882.2 | 1842.1 | 1889.2 | 1939.7 | 1971.1 | 1965.9 | 2377.2 | 4883.3 | 6150.3 | 6315.9 | 5873.2 |
| 42.5° | 1814.3 | 1777.7 | 1819.5 | 1884.0 | 1889.2 | 1894.4 | 2201.2 | 5043.7 | 6615.7 | 6826.6 | 6434.4 |
| 45° | 1758.5 | 1732.3 | 1753.3 | 1817.7 | 1817.7 | 1897.9 | 2091.4 | 5177.9 | 7316.3 | 7689.2 | 7464.4 |
| 47.5° | 1714.9 | 1699.2 | 1709.7 | 1730.6 | 1765.5 | 1960.7 | 2021.7 | 5280.7 | 8592.0 | 9324.0 | 9097.4 |
| 50° | 1690.5 | 1674.8 | 1688.8 | 1645.2 | 1749.8 | 1992.0 | 1999.0 | 5359.1 | 10273.8 | 11420.6 | 11140.0 |
| 52.5° | 1669.6 | 1664.4 | 1673.1 | 1572.0 | 1784.6 | 1971.1 | 1981.6 | 5254.5 | 11401.4 | 13484.1 | 13761.2 |
| 55° | 1662.6 | 1666.1 | 1624.3 | 1518.0 | 1826.5 | 1901.4 | 1929.3 | 4506.9 | 11708.1 | 15263.5 | 16983.6 |
| 57.5° | 1666.1 | 1655.7 | 1549.4 | 1523.2 | 1828.2 | 1762.0 | 2004.2 | 3215.5 | 11262.0 | 16037.3 | 20136.3 |
| 60° | 1653.9 | 1601.6 | 1458.7 | 1570.3 | 1748.0 | 1598.1 | 1950.2 | 2096.6 | 10085.6 | 15443.0 | 20319.3 |
| 62.5° | 1599.9 | 1523.2 | 1380.3 | 1596.4 | 1605.1 | 1500.6 | 1770.7 | 1615.6 | 8517.1 | 14170.7 | 18555.6 |
| 65° | 1521.5 | 1418.6 | 1314.1 | 1542.4 | 1460.5 | 1455.2 | 1331.5 | 1294.9 | 6849.2 | 12656.2 | 16882.5 |
| 67.5° | 1392.5 | 1289.7 | 1265.3 | 1418.6 | 1314.1 | 1289.7 | 1070.1 | 1073.6 | 5465.4 | 11042.4 | 15200.7 |
| 70° | 1246.1 | 1143.3 | 1162.4 | 1282.7 | 1169.4 | 1071.8 | 866.2 | 894.1 | 4146.1 | 9200.3 | 12933.3 |
| 72.5° | 1150.2 | 1012.6 | 1014.3 | 1129.3 | 1028.3 | 867.9 | 712.8 | 737.2 | 2631.6 | 6934.6 | 10282.5 |
| 75° | 970.7 | 892.3 | 854.0 | 915.0 | 873.1 | 676.2 | 599.5 | 594.3 | 1559.8 | 4970.5 | 7699.7 |
| 77.5° | 810.4 | 749.4 | 730.2 | 754.6 | 651.8 | 500.2 | 482.8 | 474.0 | 883.6 | 3184.1 | 5045.4 |
| 80° | 587.3 | 571.6 | 569.9 | 582.1 | 501.9 | 367.7 | 367.7 | 369.5 | 475.8 | 1728.9 | 2844.3 |
| 82.5° | 373.0 | 407.8 | 360.8 | 400.8 | 341.6 | 261.4 | 244.0 | 277.1 | 273.6 | 737.2 | 1199.0 |
| 85° | 155.1 | 212.6 | 198.7 | 210.9 | 162.1 | 142.9 | 153.4 | 165.6 | 158.6 | 284.1 | 467.1 |
| 87.5° | 29.6 | 34.9 | 38.3 | 36.6 | 36.6 | 45.3 | 50.5 | 61.0 | 61.0 | 81.9 | 141.2 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 358° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 | 2840.8 |
| 2.5° | 3124.8 | 3175.4 | 3164.9 | 3187.6 | 3158.0 | 3168.4 | 3109.2 | 3093.5 | 3083.0 | 3086.5 |
| 5° | 3445.5 | 3548.3 | 3567.5 | 3605.9 | 3579.7 | 3579.7 | 3475.1 | 3396.7 | 3368.8 | 3347.9 |
| 7.5° | 3771.4 | 3919.6 | 4017.2 | 4027.6 | 4013.7 | 3985.8 | 3834.2 | 3693.0 | 3642.5 | 3598.9 |
| 10° | 4060.7 | 4238.5 | 4348.3 | 4400.6 | 4374.4 | 4330.9 | 4142.6 | 3949.2 | 3888.2 | 3849.9 |
| 12.5° | 4282.1 | 4438.9 | 4512.1 | 4547.0 | 4543.5 | 4527.8 | 4374.4 | 4165.3 | 4100.8 | 4041.6 |
| 15° | 4425.0 | 4503.4 | 4475.5 | 4473.8 | 4498.2 | 4560.9 | 4513.9 | 4350.0 | 4275.1 | 4221.1 |
| 17.5° | 4517.3 | 4442.4 | 4318.7 | 4261.2 | 4313.4 | 4461.6 | 4569.6 | 4477.3 | 4409.3 | 4350.0 |
| 20° | 4550.5 | 4283.8 | 4104.3 | 3998.0 | 4059.0 | 4273.4 | 4540.0 | 4569.6 | 4512.1 | 4463.3 |
| 22.5° | 4512.1 | 4090.4 | 3846.4 | 3720.9 | 3780.1 | 4036.3 | 4452.9 | 4644.6 | 4606.2 | 4559.2 |
| 25° | 4418.0 | 3888.2 | 3595.4 | 3482.1 | 3546.6 | 3808.0 | 4297.8 | 4714.3 | 4716.0 | 4677.7 |
| 27.5° | 4301.2 | 3701.7 | 3419.4 | 3313.1 | 3375.8 | 3619.8 | 4146.1 | 4775.3 | 4836.3 | 4822.3 |
| 30° | 4182.7 | 3590.2 | 3335.7 | 3260.8 | 3307.8 | 3523.9 | 3991.0 | 4838.0 | 4960.0 | 4984.4 |
| 32.5° | 4128.7 | 3644.2 | 3532.7 | 3565.8 | 3504.8 | 3579.7 | 3935.2 | 4926.9 | 5109.9 | 5150.0 |
| 35° | 4200.2 | 4123.5 | 4405.8 | 4536.5 | 4320.4 | 4036.3 | 4006.7 | 5061.1 | 5320.8 | 5380.0 |
| 37.5° | 4547.0 | 5150.0 | 5571.7 | 6031.8 | 5657.1 | 5031.5 | 4360.5 | 5289.4 | 5622.3 | 5716.4 |
| 40° | 5301.6 | 6045.8 | 6807.4 | 7401.7 | 6835.3 | 5993.5 | 5033.2 | 5629.3 | 6037.1 | 6122.5 |
| 42.5° | 6012.7 | 6885.8 | 7935.0 | 8703.6 | 7968.1 | 6779.5 | 5758.2 | 6200.9 | 6584.3 | 6631.4 |
| 45° | 6709.8 | 7710.2 | 9299.6 | 10367.9 | 9369.3 | 7527.2 | 6498.9 | 7166.4 | 7455.7 | 7457.5 |
| 47.5° | 7527.2 | 8639.1 | 11011.0 | 12532.5 | 11228.9 | 8355.0 | 7194.3 | 8694.8 | 9097.4 | 8900.5 |
| 50° | 8504.9 | 9562.8 | 12773.0 | 15050.8 | 13496.3 | 9372.8 | 8077.9 | 10557.9 | 11106.9 | 10883.8 |
| 52.5° | 9813.7 | 10580.6 | 14714.5 | 17506.4 | 15967.6 | 10531.8 | 9358.8 | 13018.7 | 13200.0 | 12783.5 |
| 55° | 11655.9 | 12049.7 | 17206.7 | 20538.9 | 18726.4 | 11959.1 | 11232.4 | 16107.0 | 15599.8 | 14406.0 |
| 57.5° | 15850.8 | 14374.6 | 20406.5 | 23998.4 | 21847.8 | 14552.4 | 15338.4 | 19512.4 | 17708.6 | 15695.7 |
| 60° | 19360.8 | 17198.0 | 23367.5 | 27431.7 | 24523.0 | 17410.6 | 19193.5 | 20105.0 | 17630.2 | 15552.8 |
| 62.5° | 18177.4 | 17917.8 | 24435.8 | 27809.9 | 25436.2 | 18817.0 | 18477.2 | 18611.4 | 16479.9 | 14602.9 |
| 65° | 15948.4 | 16528.7 | 23482.5 | 26016.6 | 24423.6 | 17557.0 | 16713.5 | 17231.1 | 15164.1 | 13273.2 |
| 67.5° | 14632.6 | 15059.6 | 21786.8 | 23146.2 | 22583.2 | 16194.1 | 15341.9 | 14967.2 | 13121.6 | 11514.7 |
| 70° | 13287.1 | 13640.9 | 19406.1 | 19543.8 | 19712.8 | 13928.5 | 12544.7 | 11429.3 | 9780.6 | 8656.5 |
| 72.5° | 11481.6 | 11500.8 | 16396.3 | 15598.1 | 15918.8 | 10899.5 | 10097.8 | 8545.0 | 7119.3 | 6099.8 |
| 75° | 9632.5 | 9106.1 | 12978.6 | 10903.0 | 11546.1 | 8478.7 | 8384.6 | 6439.7 | 5369.6 | 4533.0 |
| 77.5° | 7344.2 | 6729.0 | 9480.8 | 7169.9 | 8109.3 | 5646.7 | 6303.7 | 4367.5 | 3778.4 | 3016.8 |
| 80° | 4930.4 | 4547.0 | 5238.9 | 4046.8 | 5305.1 | 3891.7 | 4111.3 | 2474.8 | 2145.4 | 1664.4 |
| 82.5° | 2600.3 | 2220.3 | 3238.1 | 2399.8 | 3199.8 | 2138.4 | 1542.4 | 765.1 | 651.8 | 526.3 |
| 85° | 1007.3 | 1165.9 | 1587.7 | 854.0 | 1240.9 | 763.3 | 446.2 | 190.0 | 158.6 | 120.3 |
| 87.5° | 195.2 | 301.5 | 165.6 | 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)