

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: P639332

Luminaire Tested: GWS-SA5B-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18007.1 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

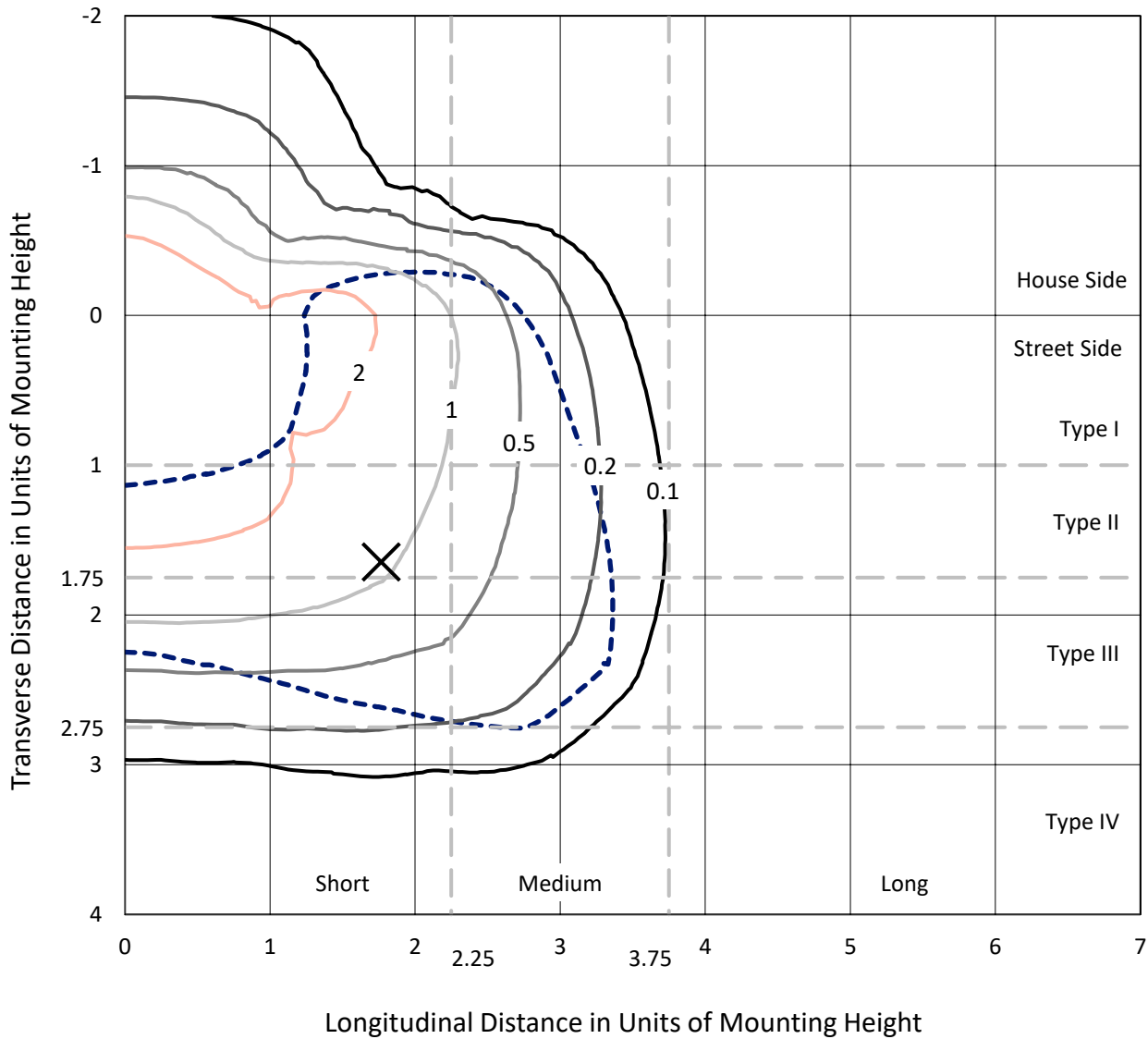
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

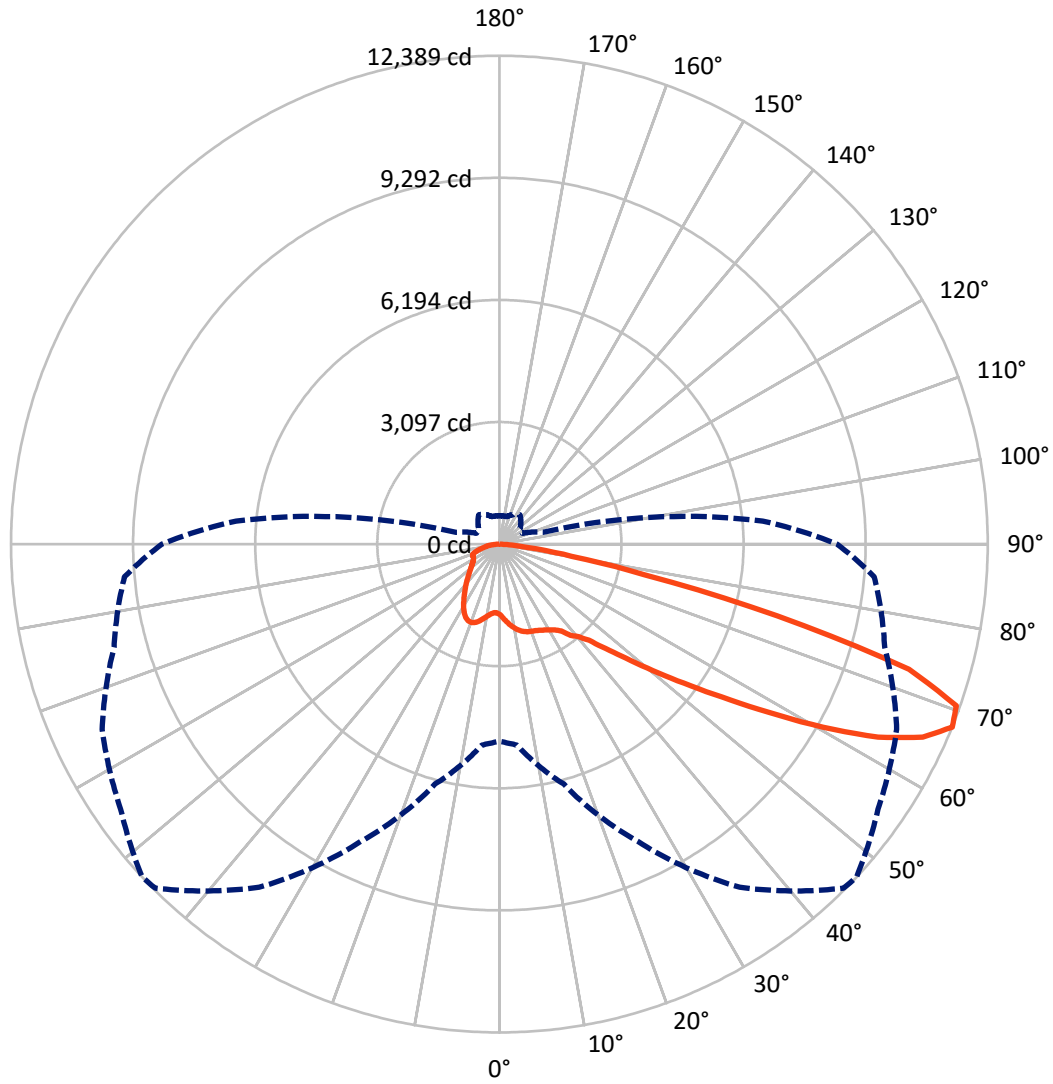
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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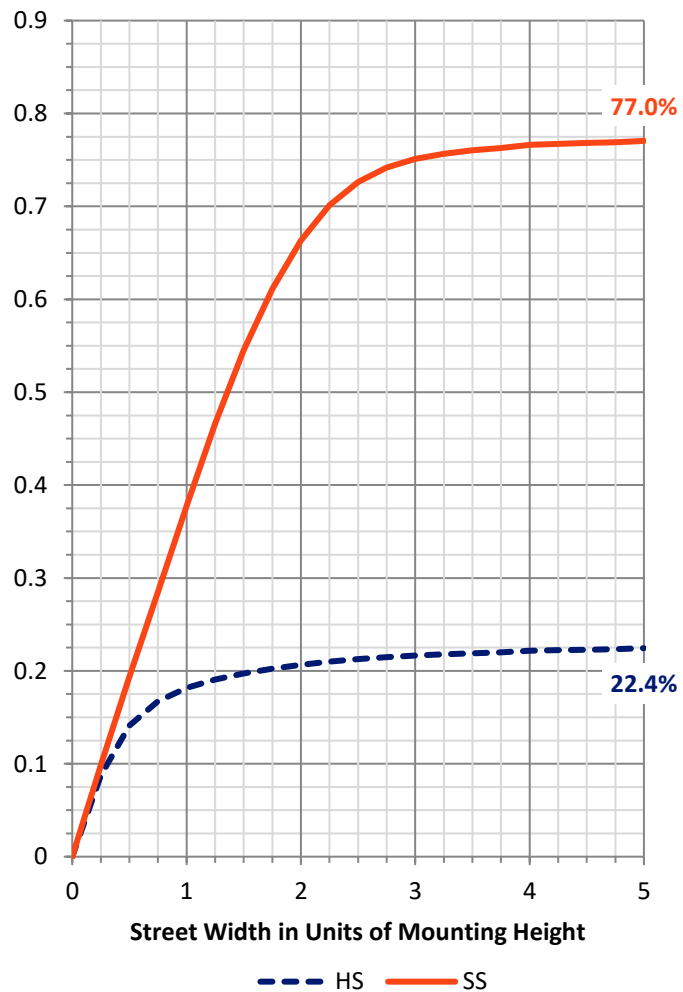
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4103.9 | 0.0 | 4103.9 |
| | % Fixture | 22.8 | 0.0 | 22.8 |
| Street Side | Lumens | 13903.1 | 0.0 | 13903.1 |
| | % Fixture | 77.2 | 0.0 | 77.2 |
| Total | Lumens | 18007.1 | 0.0 | 18007.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 182.4 | 1.0 |
| 10°-20° | 607.8 | 3.4 |
| 20°-30° | 1033.1 | 5.7 |
| 30°-40° | 1513.4 | 8.4 |
| 40°-50° | 2305.9 | 12.8 |
| 50°-60° | 4125.7 | 22.9 |
| 60°-70° | 5505.3 | 30.6 |
| 70°-80° | 2489.6 | 13.8 |
| 80°-90° | 243.9 | 1.4 |
| 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° | 18007.1 | 100.0 |
| 0°-180° | 18007.1 | 100.0 |

Coefficient of Utilization



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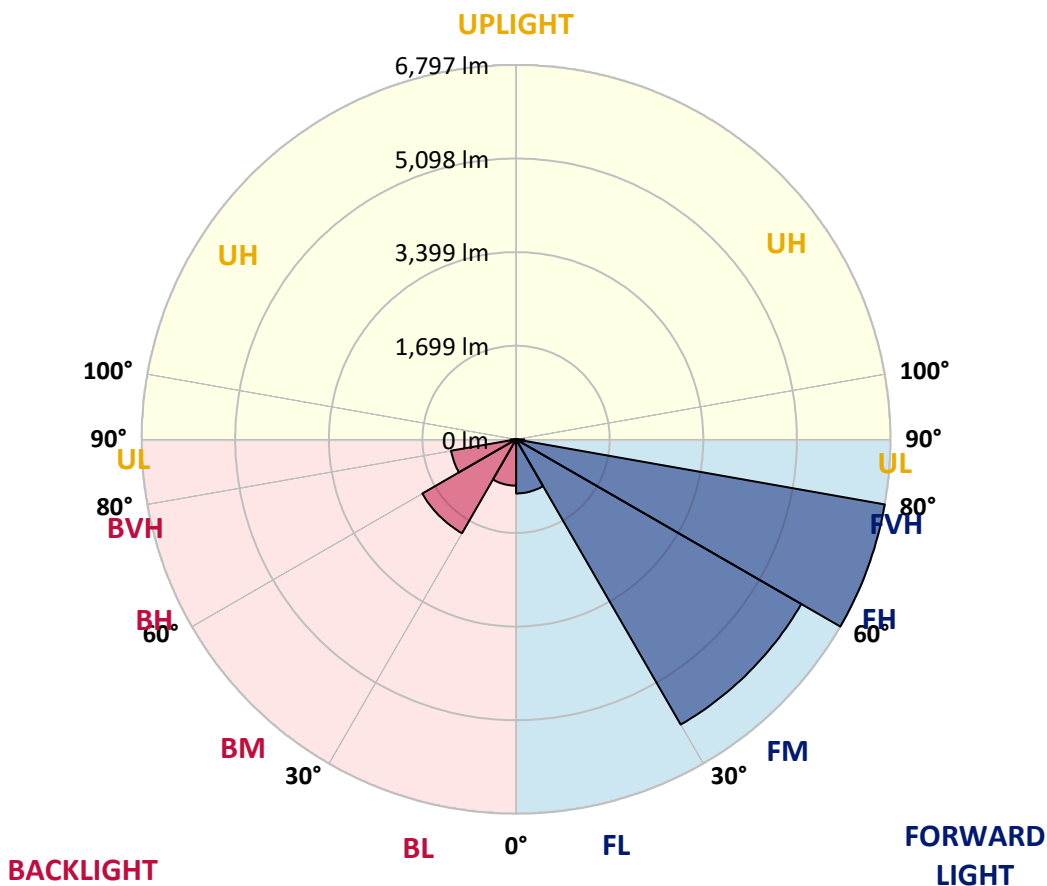
CATALOG NUMBER: GWS-SA5B-750-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 982.0 | 5.5 | | | |
| FM (30°-60°) | 5978.5 | 33.2 | | | |
| FH (60°-80°) | 6797.5 | 37.7 | | | G3/7500 |
| FVH (80°-90°) | 145.1 | 0.8 | | | G2/225 |
| BL (0°-30°) | 841.3 | 4.7 | B2/1000 | | |
| BM (30°-60°) | 1966.4 | 10.9 | B2/2500 | | |
| BH (60°-80°) | 1197.4 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 98.8 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 |
| 2.5° | 1903.6 | 1910.1 | 1908.8 | 1898.3 | 1891.8 | 1880.1 | 1881.4 | 1863.2 | 1835.9 | 1817.6 | 1796.8 |
| 5° | 2071.5 | 2081.9 | 2068.9 | 2052.0 | 2025.9 | 1988.2 | 1984.3 | 1942.6 | 1890.5 | 1854.1 | 1816.3 |
| 7.5° | 2217.3 | 2223.9 | 2208.2 | 2179.6 | 2141.8 | 2091.0 | 2081.9 | 2032.5 | 1967.4 | 1910.1 | 1855.4 |
| 10° | 2330.6 | 2338.4 | 2317.6 | 2279.8 | 2230.4 | 2179.6 | 2173.1 | 2122.3 | 2053.3 | 1985.6 | 1916.6 |
| 12.5° | 2427.0 | 2429.6 | 2407.4 | 2356.7 | 2303.3 | 2251.2 | 2244.7 | 2197.8 | 2134.0 | 2065.0 | 1989.5 |
| 15° | 2483.0 | 2484.3 | 2456.9 | 2400.9 | 2350.2 | 2304.6 | 2300.7 | 2260.3 | 2201.7 | 2136.6 | 2055.9 |
| 17.5° | 2479.1 | 2481.7 | 2462.1 | 2412.6 | 2368.4 | 2341.0 | 2337.1 | 2311.1 | 2265.5 | 2206.9 | 2126.2 |
| 20° | 2430.9 | 2433.5 | 2420.5 | 2387.9 | 2364.5 | 2356.7 | 2358.0 | 2350.2 | 2322.8 | 2274.6 | 2192.6 |
| 22.5° | 2393.1 | 2397.0 | 2385.3 | 2361.9 | 2359.3 | 2377.5 | 2381.4 | 2385.3 | 2372.3 | 2329.3 | 2249.9 |
| 25° | 2411.3 | 2417.9 | 2399.6 | 2367.1 | 2372.3 | 2412.6 | 2420.5 | 2433.5 | 2423.1 | 2386.6 | 2317.6 |
| 27.5° | 2537.6 | 2541.5 | 2494.7 | 2428.3 | 2412.6 | 2455.6 | 2467.3 | 2488.2 | 2480.4 | 2446.5 | 2393.1 |
| 30° | 2830.6 | 2828.0 | 2727.7 | 2565.0 | 2499.9 | 2516.8 | 2525.9 | 2555.9 | 2558.5 | 2536.3 | 2485.6 |
| 32.5° | 3243.3 | 3230.3 | 3075.4 | 2816.3 | 2627.5 | 2585.8 | 2596.2 | 2636.6 | 2666.5 | 2643.1 | 2574.1 |
| 35° | 3679.5 | 3667.8 | 3497.2 | 3193.9 | 2863.1 | 2718.6 | 2706.9 | 2738.2 | 2783.7 | 2718.6 | 2619.7 |
| 37.5° | 4094.9 | 4076.6 | 3902.2 | 3527.2 | 3153.5 | 2951.7 | 2934.8 | 2903.5 | 2876.2 | 2751.2 | 2675.7 |
| 40° | 4555.8 | 4534.9 | 4382.6 | 3958.1 | 3473.8 | 3130.1 | 3087.1 | 2963.4 | 2938.7 | 2859.2 | 2821.5 |
| 42.5° | 5047.9 | 5047.9 | 4921.6 | 4503.7 | 3860.5 | 3385.3 | 3329.3 | 3143.1 | 3169.1 | 3117.0 | 3072.8 |
| 45° | 5540.1 | 5554.4 | 5454.2 | 5053.2 | 4377.4 | 3867.0 | 3777.2 | 3512.9 | 3575.4 | 3551.9 | 3529.8 |
| 47.5° | 5959.4 | 5986.7 | 5967.2 | 5614.3 | 5010.2 | 4452.9 | 4316.2 | 4041.5 | 4175.6 | 4231.6 | 4294.1 |
| 50° | 6411.2 | 6441.1 | 6421.6 | 6282.3 | 5751.0 | 5162.5 | 5040.1 | 4756.3 | 4986.7 | 5154.7 | 5359.1 |
| 52.5° | 7081.7 | 7124.7 | 6961.9 | 6908.5 | 6650.7 | 5968.5 | 5859.1 | 5536.2 | 5954.2 | 6232.8 | 6688.5 |
| 55° | 7648.1 | 7646.8 | 7589.5 | 7711.9 | 7616.8 | 6954.1 | 6833.0 | 6540.1 | 7073.9 | 7369.4 | 8036.1 |
| 57.5° | 7911.1 | 7942.3 | 8138.9 | 8485.3 | 8675.4 | 8158.5 | 8042.6 | 7743.1 | 8275.7 | 8429.3 | 9149.3 |
| 60° | 8046.5 | 8085.6 | 8465.8 | 9150.6 | 9662.3 | 9473.5 | 9427.9 | 9046.5 | 9345.9 | 9327.7 | 10088.1 |
| 62.5° | 7856.4 | 7934.5 | 8545.2 | 9455.3 | 10366.7 | 10795.1 | 10780.8 | 10204.0 | 10256.0 | 10077.7 | 10670.1 |
| 65° | 6984.1 | 7068.7 | 8027.0 | 9303.0 | 10769.0 | 11800.2 | 11804.1 | 11252.1 | 10955.2 | 10442.2 | 10572.4 |
| 67.5° | 4994.6 | 5115.6 | 6300.5 | 8323.8 | 10627.1 | 12343.2 | 12388.7 | 11727.3 | 11119.3 | 10119.3 | 9546.4 |
| 70° | 2722.5 | 2811.1 | 3739.4 | 6050.5 | 9348.5 | 12213.0 | 12297.6 | 11498.2 | 10395.4 | 8753.5 | 7348.6 |
| 72.5° | 1236.9 | 1265.6 | 1739.5 | 3320.2 | 6386.4 | 10512.5 | 10866.7 | 10261.2 | 8537.4 | 6465.8 | 4673.0 |
| 75° | 566.4 | 579.4 | 757.8 | 1588.5 | 3337.1 | 7034.8 | 7283.5 | 7642.9 | 5941.1 | 4083.1 | 2436.1 |
| 77.5° | 355.5 | 359.4 | 431.0 | 726.5 | 1664.0 | 3511.6 | 3773.3 | 4550.6 | 3479.0 | 2020.7 | 1018.2 |
| 80° | 209.6 | 213.5 | 268.2 | 393.2 | 781.2 | 1606.7 | 1855.4 | 1799.4 | 1635.3 | 872.4 | 463.5 |
| 82.5° | 105.5 | 109.4 | 154.9 | 223.9 | 425.8 | 639.3 | 752.6 | 756.5 | 609.3 | 472.6 | 261.7 |
| 85° | 37.8 | 39.1 | 50.8 | 88.5 | 181.0 | 210.9 | 235.7 | 287.7 | 298.2 | 274.7 | 126.3 |
| 87.5° | 0.0 | 0.0 | 1.3 | 2.6 | 5.2 | 20.8 | 22.1 | 41.7 | 87.2 | 97.7 | 50.8 |
| 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-SA5B-750-U-T4W-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 | 1785.1 |
| 2.5° | 1790.3 | 1770.8 | 1764.2 | 1757.7 | 1747.3 | 1743.4 | 1735.6 | 1727.8 | 1727.8 | 1720.0 | 1716.1 |
| 5° | 1799.4 | 1773.4 | 1756.4 | 1748.6 | 1742.1 | 1746.0 | 1746.0 | 1748.6 | 1757.7 | 1752.5 | 1755.1 |
| 7.5° | 1831.9 | 1802.0 | 1778.6 | 1772.1 | 1772.1 | 1787.7 | 1798.1 | 1811.1 | 1828.0 | 1830.6 | 1830.6 |
| 10° | 1889.2 | 1854.1 | 1829.3 | 1825.4 | 1831.9 | 1854.1 | 1869.7 | 1885.3 | 1906.2 | 1907.5 | 1910.1 |
| 12.5° | 1951.7 | 1916.6 | 1891.8 | 1897.0 | 1903.6 | 1932.2 | 1949.1 | 1962.1 | 1983.0 | 1983.0 | 1981.7 |
| 15° | 2016.8 | 1977.8 | 1956.9 | 1967.4 | 1986.9 | 2019.4 | 2022.0 | 2023.3 | 2033.8 | 2031.2 | 2029.9 |
| 17.5° | 2084.5 | 2042.9 | 2027.2 | 2042.9 | 2063.7 | 2079.3 | 2066.3 | 2048.1 | 2044.2 | 2039.0 | 2036.4 |
| 20° | 2150.9 | 2108.0 | 2101.5 | 2113.2 | 2119.7 | 2106.7 | 2066.3 | 2032.5 | 2016.8 | 2009.0 | 2006.4 |
| 22.5° | 2208.2 | 2171.8 | 2167.9 | 2167.9 | 2135.3 | 2089.7 | 2029.9 | 1984.3 | 1963.5 | 1953.0 | 1950.4 |
| 25° | 2275.9 | 2242.1 | 2235.6 | 2200.4 | 2117.1 | 2033.8 | 1953.0 | 1911.4 | 1894.4 | 1889.2 | 1890.5 |
| 27.5° | 2355.4 | 2331.9 | 2311.1 | 2210.8 | 2065.0 | 1934.8 | 1843.7 | 1825.4 | 1818.9 | 1825.4 | 1829.3 |
| 30° | 2453.0 | 2429.6 | 2382.7 | 2197.8 | 1981.7 | 1805.9 | 1718.7 | 1717.4 | 1736.9 | 1753.8 | 1756.4 |
| 32.5° | 2532.4 | 2522.0 | 2445.2 | 2156.2 | 1864.5 | 1664.0 | 1589.8 | 1595.0 | 1630.1 | 1653.6 | 1657.5 |
| 35° | 2594.9 | 2611.9 | 2497.3 | 2087.1 | 1725.2 | 1529.9 | 1471.3 | 1473.9 | 1493.4 | 1526.0 | 1527.3 |
| 37.5° | 2683.5 | 2740.8 | 2544.2 | 1981.7 | 1565.0 | 1414.0 | 1360.6 | 1341.1 | 1338.5 | 1347.6 | 1350.2 |
| 40° | 2861.8 | 2947.8 | 2578.0 | 1828.0 | 1410.1 | 1309.8 | 1249.9 | 1212.2 | 1179.6 | 1154.9 | 1147.1 |
| 42.5° | 3131.4 | 3230.3 | 2597.5 | 1641.9 | 1272.1 | 1207.0 | 1139.3 | 1091.1 | 1033.8 | 981.7 | 963.5 |
| 45° | 3626.1 | 3658.7 | 2597.5 | 1443.9 | 1149.7 | 1110.6 | 1042.9 | 985.6 | 912.7 | 851.5 | 838.5 |
| 47.5° | 4417.8 | 4313.6 | 2600.1 | 1252.5 | 1041.6 | 1026.0 | 967.4 | 902.3 | 821.6 | 770.8 | 763.0 |
| 50° | 5610.4 | 5244.5 | 2653.5 | 1093.7 | 951.8 | 954.4 | 911.4 | 839.8 | 766.9 | 729.1 | 722.6 |
| 52.5° | 6961.9 | 6391.6 | 2796.7 | 976.5 | 876.3 | 895.8 | 872.4 | 803.3 | 738.2 | 705.7 | 699.2 |
| 55° | 8232.7 | 7446.3 | 2919.1 | 893.2 | 812.5 | 846.3 | 845.0 | 781.2 | 722.6 | 690.1 | 686.2 |
| 57.5° | 9313.4 | 8168.9 | 2900.9 | 825.5 | 757.8 | 800.7 | 820.3 | 766.9 | 712.2 | 684.9 | 681.0 |
| 60° | 9985.2 | 8551.7 | 2641.8 | 763.0 | 716.1 | 768.2 | 806.0 | 763.0 | 717.4 | 710.9 | 712.2 |
| 62.5° | 10276.9 | 8481.4 | 2144.4 | 716.1 | 688.8 | 752.6 | 821.6 | 790.3 | 765.6 | 781.2 | 790.3 |
| 65° | 9823.8 | 7877.2 | 1578.1 | 681.0 | 662.7 | 756.5 | 858.0 | 833.3 | 765.6 | 776.0 | 779.9 |
| 67.5° | 8566.0 | 6705.4 | 1140.6 | 645.8 | 630.2 | 768.2 | 910.1 | 826.8 | 721.3 | 721.3 | 713.5 |
| 70° | 6172.9 | 4822.7 | 828.1 | 610.6 | 597.6 | 751.3 | 912.7 | 782.5 | 670.5 | 666.6 | 647.1 |
| 72.5° | 3714.7 | 2844.9 | 645.8 | 571.6 | 548.2 | 666.6 | 855.4 | 730.4 | 621.1 | 588.5 | 565.1 |
| 75° | 1929.6 | 1425.7 | 541.6 | 528.6 | 470.0 | 565.1 | 782.5 | 649.7 | 531.2 | 502.6 | 489.6 |
| 77.5° | 826.8 | 666.6 | 464.8 | 471.3 | 390.6 | 475.2 | 631.5 | 562.5 | 471.3 | 434.9 | 423.2 |
| 80° | 407.5 | 378.9 | 367.2 | 377.6 | 312.5 | 367.2 | 544.2 | 492.2 | 399.7 | 358.1 | 341.1 |
| 82.5° | 233.1 | 221.3 | 264.3 | 268.2 | 222.6 | 307.3 | 459.6 | 416.6 | 330.7 | 285.1 | 257.8 |
| 85° | 108.1 | 115.9 | 160.1 | 161.5 | 138.0 | 210.9 | 300.8 | 234.4 | 175.8 | 145.8 | 139.3 |
| 87.5° | 43.0 | 50.8 | 70.3 | 69.0 | 40.4 | 39.1 | 26.0 | 14.3 | 11.7 | 10.4 | 9.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)