

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: P641012

Luminaire Tested: GWS-SA5F-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641012
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-SA5F-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28814.7 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

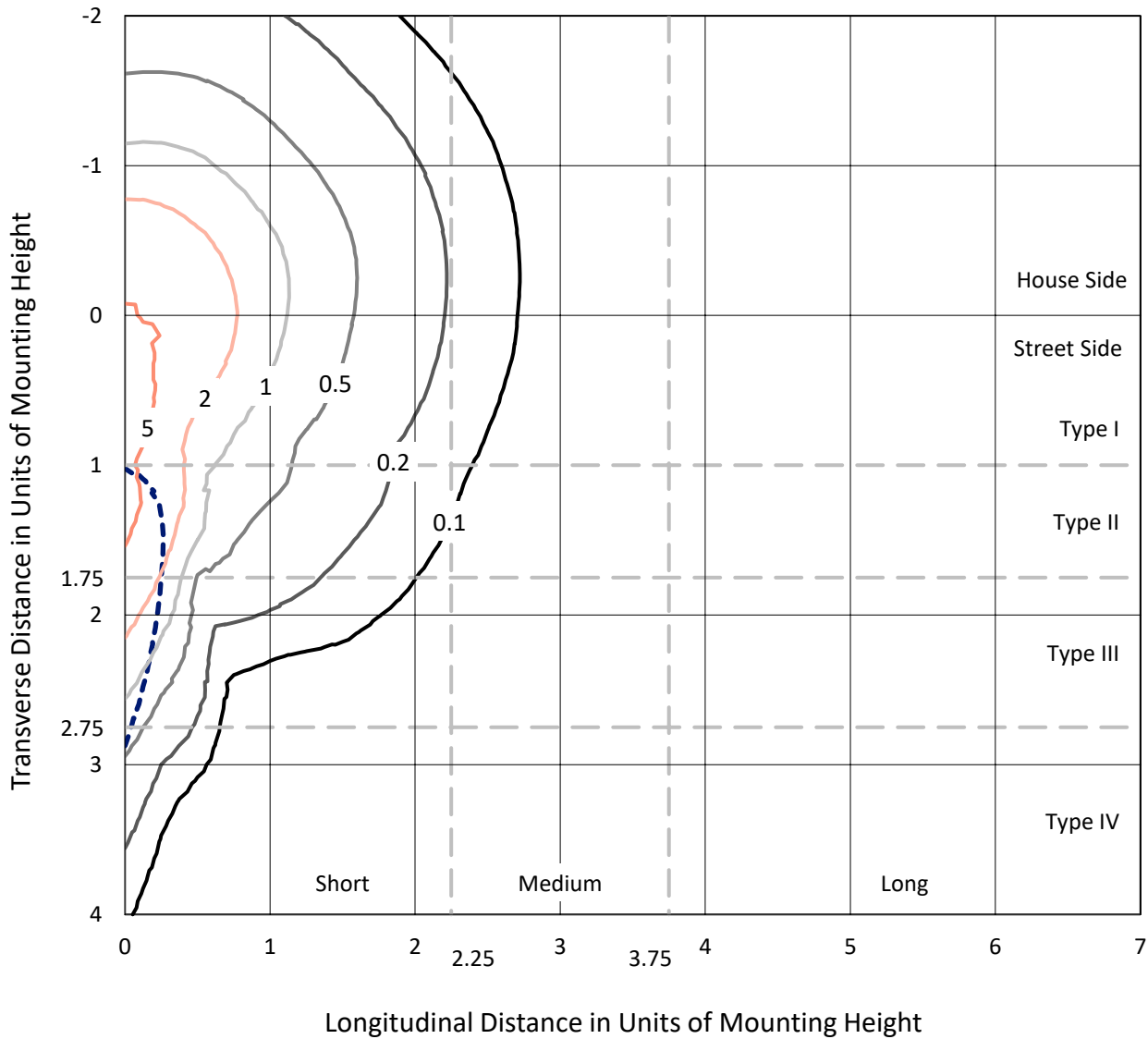
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641012
 CATALOG NUMBER: GWS-SA5F-722-U-SLL-W

Iso-Footcandle Lines of Horizontal Illumination

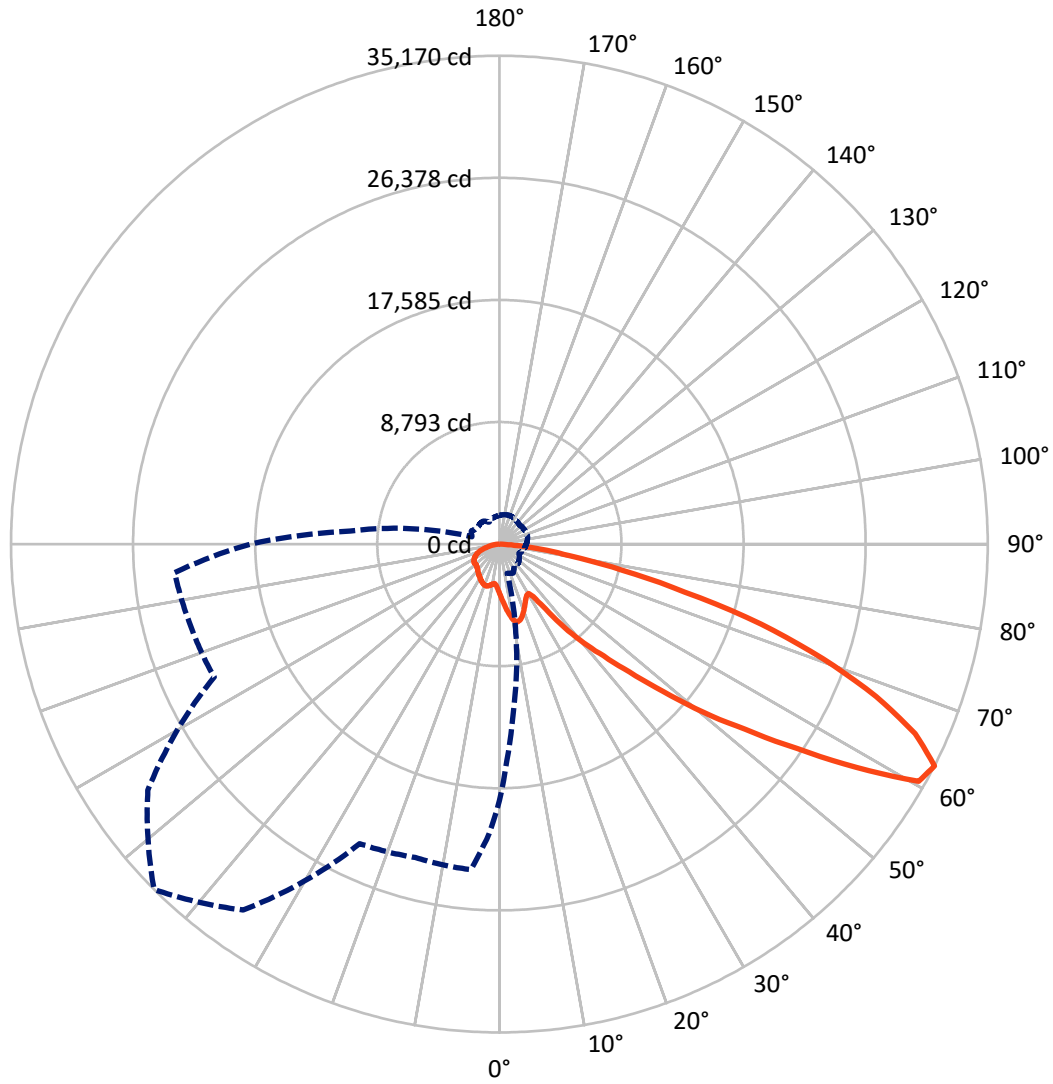
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

REPORT NUMBER: P641012
CATALOG NUMBER: GWS-SA5F-722-U-SLL-W

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 | 6889.6 | 0.0 | 6889.6 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 21925.1 | 0.0 | 21925.1 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 28814.7 | 0.0 | 28814.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 353.9 | 1.2 |
| 10°-20° | 1150.3 | 4.0 |
| 20°-30° | 1810.7 | 6.3 |
| 30°-40° | 2482.0 | 8.6 |
| 40°-50° | 3872.7 | 13.4 |
| 50°-60° | 6677.3 | 23.2 |
| 60°-70° | 7738.1 | 26.9 |
| 70°-80° | 4084.5 | 14.2 |
| 80°-90° | 645.2 | 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° | 28814.7 | 100.0 |
| 0°-180° | 28814.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P641012

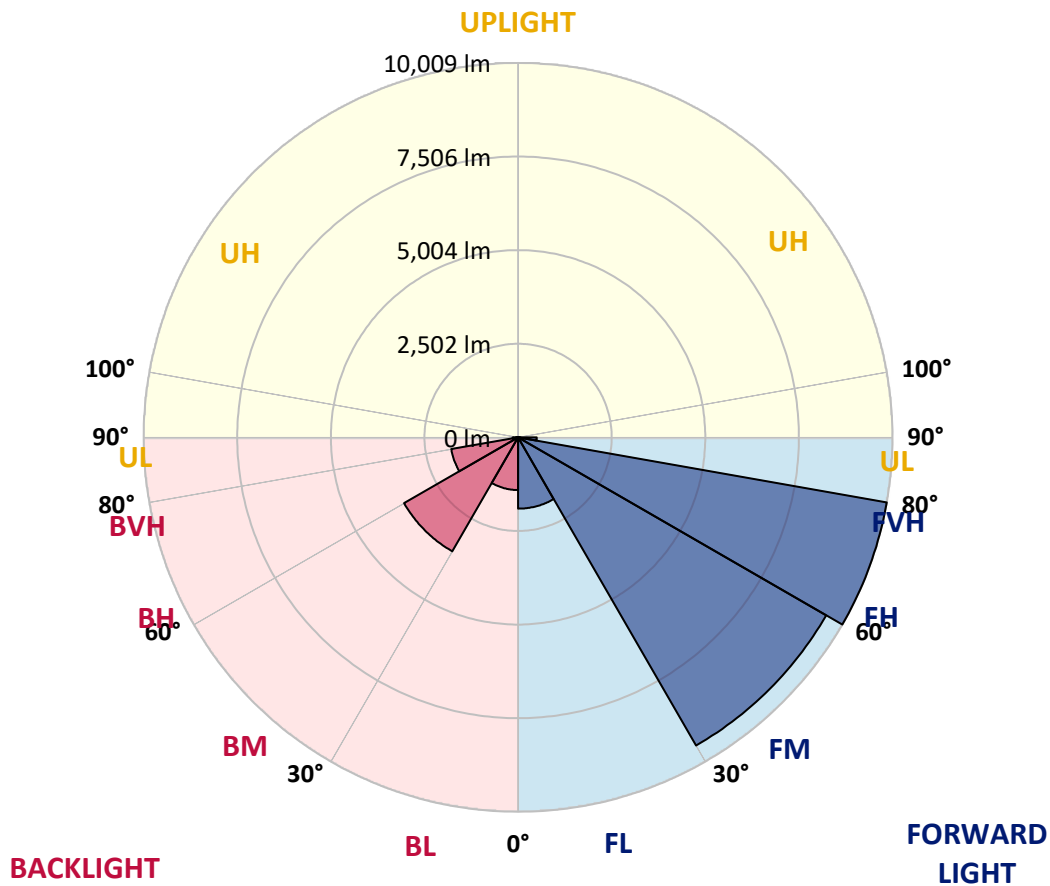
CATALOG NUMBER: GWS-SA5F-722-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1905.7 | 6.6 | | | |
| FM (30°-60°) | 9512.7 | 33.0 | | | |
| FH (60°-80°) | 10008.6 | 34.7 | | | G4/12000 |
| FVH (80°-90°) | 498.0 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1409.2 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 3519.2 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 1814.1 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 147.2 | 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: P641012

CATALOG NUMBER: GWS-SA5F-722-U-SLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 |
| 2.5° | 3903.4 | 3887.9 | 3865.9 | 3791.0 | 3744.7 | 3691.8 | 3636.7 | 3572.8 | 3500.0 | 3449.3 | 3398.6 |
| 5° | 4234.0 | 4209.7 | 4156.8 | 3978.3 | 3854.9 | 3720.4 | 3608.0 | 3480.2 | 3354.6 | 3268.6 | 3182.6 |
| 7.5° | 4551.4 | 4520.5 | 4439.0 | 4165.6 | 3965.1 | 3771.1 | 3601.4 | 3416.3 | 3228.9 | 3101.1 | 2999.7 |
| 10° | 4868.7 | 4804.8 | 4701.2 | 4344.2 | 4079.7 | 3854.9 | 3660.9 | 3433.9 | 3184.8 | 3010.7 | 2902.7 |
| 12.5° | 5111.2 | 5051.7 | 4939.3 | 4507.3 | 4194.3 | 3912.2 | 3694.0 | 3484.6 | 3273.0 | 3087.9 | 2977.7 |
| 15° | 5338.2 | 5261.1 | 5133.2 | 4659.4 | 4289.1 | 3910.0 | 3627.9 | 3444.9 | 3414.1 | 3367.8 | 3224.5 |
| 17.5° | 5501.3 | 5430.8 | 5298.5 | 4782.8 | 4342.0 | 3841.7 | 3444.9 | 3336.9 | 3475.8 | 3616.8 | 3480.2 |
| 20° | 5644.6 | 5563.0 | 5428.6 | 4868.7 | 4353.0 | 3689.6 | 3222.3 | 3224.5 | 3442.7 | 3636.7 | 3603.6 |
| 22.5° | 5765.8 | 5675.4 | 5556.4 | 4965.7 | 4348.6 | 3478.0 | 3028.4 | 3160.6 | 3378.8 | 3530.9 | 3535.3 |
| 25° | 5915.7 | 5840.7 | 5741.5 | 5109.0 | 4348.6 | 3262.0 | 2887.3 | 3083.5 | 3270.8 | 3398.6 | 3394.2 |
| 27.5° | 6098.6 | 6047.9 | 5966.4 | 5327.2 | 4388.3 | 3081.3 | 2808.0 | 2984.3 | 3132.0 | 3242.2 | 3239.9 |
| 30° | 6303.6 | 6257.3 | 6195.6 | 5558.6 | 4456.6 | 2946.8 | 2763.9 | 2860.9 | 2968.9 | 3057.0 | 3057.0 |
| 32.5° | 6513.0 | 6495.3 | 6429.2 | 5743.7 | 4403.7 | 2904.9 | 2726.4 | 2737.4 | 2794.7 | 2867.5 | 2860.9 |
| 35° | 6803.9 | 6786.3 | 6702.5 | 5887.0 | 4174.5 | 2845.4 | 2666.9 | 2611.8 | 2618.4 | 2664.7 | 2680.1 |
| 37.5° | 7229.3 | 7202.8 | 7079.4 | 6054.5 | 3828.4 | 2695.5 | 2569.9 | 2479.6 | 2459.7 | 2479.6 | 2508.2 |
| 40° | 7742.8 | 7703.1 | 7535.6 | 6281.5 | 3429.5 | 2492.8 | 2417.8 | 2342.9 | 2309.8 | 2316.5 | 2349.5 |
| 42.5° | 8386.4 | 8302.6 | 8062.4 | 6521.8 | 3035.0 | 2314.2 | 2248.1 | 2201.8 | 2164.4 | 2160.0 | 2223.9 |
| 45° | 9431.1 | 9201.9 | 8820.6 | 6735.6 | 2702.2 | 2219.5 | 2096.0 | 2063.0 | 2032.1 | 2049.8 | 2124.7 |
| 47.5° | 11256.1 | 10832.9 | 10090.1 | 6918.5 | 2499.4 | 2221.7 | 1974.8 | 1939.6 | 1937.4 | 1972.6 | 2056.4 |
| 50° | 13764.3 | 13153.8 | 12007.6 | 7041.9 | 2393.6 | 2248.1 | 1902.1 | 1844.8 | 1886.7 | 1921.9 | 2001.3 |
| 52.5° | 16166.7 | 15234.4 | 13870.1 | 7039.7 | 2347.3 | 2252.5 | 1921.9 | 1756.6 | 1886.7 | 1895.5 | 1970.4 |
| 55° | 18218.7 | 16530.4 | 14372.6 | 6316.8 | 2281.2 | 2234.9 | 1999.1 | 1688.3 | 1862.4 | 1895.5 | 1955.0 |
| 57.5° | 19849.6 | 17354.7 | 14335.1 | 5102.4 | 2481.8 | 2137.9 | 2045.4 | 1672.9 | 1791.9 | 1899.9 | 1968.2 |
| 60° | 19668.9 | 16977.8 | 13411.6 | 3132.0 | 2461.9 | 1966.0 | 2038.7 | 1701.5 | 1672.9 | 1840.4 | 1952.8 |
| 62.5° | 18467.7 | 15626.7 | 11822.5 | 2173.2 | 2312.0 | 1866.8 | 1930.7 | 1752.2 | 1562.7 | 1754.4 | 1877.8 |
| 65° | 16786.0 | 13883.3 | 9852.1 | 1666.3 | 1915.3 | 1871.2 | 1747.8 | 1717.0 | 1465.7 | 1617.8 | 1750.0 |
| 67.5° | 14562.1 | 11721.1 | 7778.1 | 1320.2 | 1335.7 | 1620.0 | 1586.9 | 1525.2 | 1375.3 | 1496.5 | 1615.6 |
| 70° | 10947.5 | 8553.9 | 5351.4 | 1062.4 | 1011.7 | 1353.3 | 1426.0 | 1370.9 | 1287.2 | 1322.4 | 1448.1 |
| 72.5° | 7714.2 | 5585.1 | 2931.4 | 841.9 | 780.2 | 1040.3 | 1238.7 | 1229.9 | 1137.3 | 1163.7 | 1287.2 |
| 75° | 5732.7 | 3951.9 | 1831.6 | 665.6 | 634.8 | 745.0 | 1038.1 | 1064.6 | 987.4 | 1018.3 | 1113.0 |
| 77.5° | 3815.2 | 2558.9 | 1018.3 | 493.7 | 493.7 | 544.4 | 773.6 | 897.0 | 839.7 | 864.0 | 930.1 |
| 80° | 2104.9 | 1302.6 | 509.1 | 324.0 | 332.8 | 374.7 | 564.2 | 645.8 | 648.0 | 707.5 | 725.1 |
| 82.5° | 665.6 | 414.4 | 227.0 | 189.5 | 178.5 | 213.8 | 363.7 | 462.8 | 432.0 | 551.0 | 506.9 |
| 85° | 152.1 | 97.0 | 41.9 | 41.9 | 46.3 | 70.5 | 138.9 | 246.9 | 315.2 | 379.1 | 275.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 97.0 | 143.3 | 127.8 |
| 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: P641012

CATALOG NUMBER: GWS-SA5F-722-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 |
| 2.5° | 3367.8 | 3323.7 | 3310.5 | 3273.0 | 3268.6 | 3233.3 | 3220.1 | 3220.1 | 3235.5 | 3235.5 | 3251.0 |
| 5° | 3147.4 | 3092.3 | 3061.4 | 3017.3 | 3006.3 | 2979.9 | 2962.2 | 2964.4 | 2984.3 | 2997.5 | 3024.0 |
| 7.5° | 2953.4 | 2916.0 | 2893.9 | 2874.1 | 2869.7 | 2865.3 | 2845.4 | 2843.2 | 2849.8 | 2869.7 | 2889.5 |
| 10° | 2871.9 | 2845.4 | 2852.0 | 2867.5 | 2891.7 | 2904.9 | 2887.3 | 2878.5 | 2871.9 | 2885.1 | 2902.7 |
| 12.5° | 2951.2 | 2924.8 | 2938.0 | 2964.4 | 2997.5 | 3010.7 | 3004.1 | 3001.9 | 3008.5 | 3059.2 | 3096.7 |
| 15° | 3125.3 | 3074.6 | 3057.0 | 3068.0 | 3094.5 | 3107.7 | 3101.1 | 3109.9 | 3151.8 | 3284.0 | 3378.8 |
| 17.5° | 3341.3 | 3217.9 | 3147.4 | 3127.5 | 3138.6 | 3149.6 | 3149.6 | 3171.6 | 3244.4 | 3438.3 | 3557.3 |
| 20° | 3458.1 | 3297.3 | 3178.2 | 3129.7 | 3134.2 | 3145.2 | 3145.2 | 3176.0 | 3257.6 | 3464.8 | 3541.9 |
| 22.5° | 3427.3 | 3279.6 | 3134.2 | 3081.3 | 3083.5 | 3092.3 | 3092.3 | 3118.7 | 3191.5 | 3374.4 | 3409.7 |
| 25° | 3306.1 | 3176.0 | 3032.8 | 2986.5 | 2990.9 | 3006.3 | 3001.9 | 3017.3 | 3072.4 | 3222.3 | 3242.2 |
| 27.5° | 3160.6 | 3046.0 | 2904.9 | 2869.7 | 2889.5 | 2920.4 | 2893.9 | 2896.1 | 2946.8 | 3072.4 | 3074.6 |
| 30° | 3004.1 | 2909.3 | 2783.7 | 2757.3 | 2794.7 | 2810.2 | 2785.9 | 2785.9 | 2836.6 | 2922.6 | 2920.4 |
| 32.5° | 2834.4 | 2774.9 | 2684.5 | 2655.9 | 2697.8 | 2722.0 | 2691.1 | 2695.5 | 2735.2 | 2792.5 | 2770.5 |
| 35° | 2675.7 | 2644.9 | 2603.0 | 2583.1 | 2609.6 | 2631.6 | 2611.8 | 2620.6 | 2658.1 | 2673.5 | 2642.7 |
| 37.5° | 2523.6 | 2519.2 | 2523.6 | 2523.6 | 2530.2 | 2536.9 | 2523.6 | 2545.7 | 2578.7 | 2558.9 | 2523.6 |
| 40° | 2391.4 | 2409.0 | 2450.9 | 2439.9 | 2433.3 | 2439.9 | 2431.1 | 2468.5 | 2501.6 | 2466.3 | 2424.5 |
| 42.5° | 2281.2 | 2314.2 | 2378.2 | 2378.2 | 2364.9 | 2369.4 | 2364.9 | 2411.2 | 2435.5 | 2387.0 | 2340.7 |
| 45° | 2186.4 | 2234.9 | 2316.5 | 2327.5 | 2305.4 | 2305.4 | 2314.2 | 2371.6 | 2380.4 | 2314.2 | 2265.8 |
| 47.5° | 2120.3 | 2179.8 | 2272.4 | 2292.2 | 2259.1 | 2256.9 | 2281.2 | 2342.9 | 2342.9 | 2265.8 | 2210.7 |
| 50° | 2074.0 | 2140.1 | 2250.3 | 2276.8 | 2243.7 | 2234.9 | 2274.6 | 2334.1 | 2320.9 | 2228.3 | 2173.2 |
| 52.5° | 2043.2 | 2111.5 | 2248.1 | 2285.6 | 2263.6 | 2254.7 | 2294.4 | 2336.3 | 2303.2 | 2204.0 | 2146.7 |
| 55° | 2023.3 | 2098.3 | 2254.7 | 2285.6 | 2261.4 | 2245.9 | 2285.6 | 2323.1 | 2305.4 | 2190.8 | 2135.7 |
| 57.5° | 2034.3 | 2109.3 | 2245.9 | 2261.4 | 2232.7 | 2206.3 | 2252.5 | 2305.4 | 2298.8 | 2195.2 | 2140.1 |
| 60° | 2016.7 | 2085.0 | 2197.4 | 2201.8 | 2153.4 | 2111.5 | 2179.8 | 2259.1 | 2259.1 | 2179.8 | 2131.3 |
| 62.5° | 1935.2 | 2003.5 | 2102.7 | 2107.1 | 2052.0 | 2005.7 | 2085.0 | 2179.8 | 2177.6 | 2113.7 | 2063.0 |
| 65° | 1800.7 | 1864.6 | 1977.0 | 1988.1 | 1932.9 | 1884.5 | 1966.0 | 2054.2 | 2060.8 | 2003.5 | 1959.4 |
| 67.5° | 1653.0 | 1710.3 | 1794.1 | 1838.2 | 1791.9 | 1741.2 | 1816.1 | 1899.9 | 1897.7 | 1829.4 | 1783.1 |
| 70° | 1476.7 | 1529.6 | 1606.8 | 1644.2 | 1615.6 | 1567.1 | 1635.4 | 1679.5 | 1659.6 | 1626.6 | 1595.7 |
| 72.5° | 1302.6 | 1353.3 | 1426.0 | 1426.0 | 1395.2 | 1348.9 | 1368.7 | 1448.1 | 1472.3 | 1448.1 | 1428.2 |
| 75° | 1119.7 | 1163.7 | 1214.4 | 1225.5 | 1157.1 | 1073.4 | 1165.9 | 1234.3 | 1262.9 | 1251.9 | 1227.7 |
| 77.5° | 932.3 | 965.4 | 1040.3 | 1020.5 | 892.6 | 848.6 | 923.5 | 1024.9 | 1044.7 | 1038.1 | 1005.0 |
| 80° | 718.5 | 738.4 | 817.7 | 778.0 | 678.8 | 650.2 | 683.3 | 762.6 | 767.0 | 745.0 | 703.1 |
| 82.5° | 482.7 | 509.1 | 562.0 | 484.9 | 482.7 | 456.2 | 429.8 | 438.6 | 478.3 | 473.9 | 445.2 |
| 85° | 246.9 | 260.1 | 310.8 | 290.9 | 249.1 | 216.0 | 205.0 | 218.2 | 196.2 | 178.5 | 154.3 |
| 87.5° | 103.6 | 112.4 | 154.3 | 86.0 | 26.4 | 0.0 | 0.0 | 13.2 | 19.8 | 28.7 | 30.9 |
| 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: P641012

CATALOG NUMBER: GWS-SA5F-722-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 |
| 2.5° | 3286.2 | 3310.5 | 3370.0 | 3444.9 | 3517.7 | 3592.6 | 3674.1 | 3724.8 | 3786.6 | 3865.9 | 3868.1 |
| 5° | 3057.0 | 3112.1 | 3198.1 | 3312.7 | 3431.7 | 3568.4 | 3727.0 | 3859.3 | 4018.0 | 4143.6 | 4194.3 |
| 7.5° | 2916.0 | 2995.3 | 3103.3 | 3248.8 | 3405.3 | 3575.0 | 3782.1 | 4004.8 | 4264.8 | 4432.3 | 4531.5 |
| 10° | 2929.2 | 3050.4 | 3158.4 | 3281.8 | 3422.9 | 3605.8 | 3872.5 | 4167.9 | 4487.4 | 4707.8 | 4831.3 |
| 12.5° | 3165.0 | 3292.8 | 3273.0 | 3266.4 | 3361.2 | 3583.8 | 3945.2 | 4333.2 | 4723.3 | 4943.7 | 5091.3 |
| 15° | 3462.6 | 3511.0 | 3323.7 | 3182.6 | 3239.9 | 3504.4 | 3984.9 | 4480.8 | 4919.4 | 5188.3 | 5333.8 |
| 17.5° | 3614.6 | 3517.7 | 3290.6 | 3079.1 | 3063.6 | 3383.2 | 4004.8 | 4630.7 | 5139.8 | 5408.7 | 5563.0 |
| 20° | 3544.1 | 3403.0 | 3211.3 | 3010.7 | 2900.5 | 3217.9 | 3993.7 | 4749.7 | 5340.4 | 5640.2 | 5765.8 |
| 22.5° | 3392.0 | 3268.6 | 3118.7 | 2927.0 | 2768.3 | 3037.2 | 3965.1 | 4868.7 | 5518.9 | 5820.9 | 5931.1 |
| 25° | 3226.7 | 3134.2 | 3010.7 | 2843.2 | 2693.3 | 2878.5 | 3945.2 | 5027.4 | 5723.9 | 6012.6 | 6083.2 |
| 27.5° | 3061.4 | 2993.1 | 2891.7 | 2761.7 | 2675.7 | 2768.3 | 3951.9 | 5234.6 | 5988.4 | 6261.7 | 6233.0 |
| 30° | 2898.3 | 2838.8 | 2768.3 | 2711.0 | 2673.5 | 2741.8 | 3934.2 | 5455.0 | 6279.3 | 6532.8 | 6363.1 |
| 32.5° | 2744.0 | 2688.9 | 2644.9 | 2653.7 | 2675.7 | 2752.9 | 3843.9 | 5655.6 | 6546.0 | 6762.0 | 6504.1 |
| 35° | 2611.8 | 2554.5 | 2554.5 | 2585.3 | 2666.9 | 2715.4 | 3610.2 | 5812.1 | 6841.4 | 7057.4 | 6704.7 |
| 37.5° | 2488.4 | 2437.7 | 2470.7 | 2521.4 | 2598.6 | 2614.0 | 3310.5 | 5964.2 | 7271.2 | 7473.9 | 7015.5 |
| 40° | 2380.4 | 2329.7 | 2389.2 | 2453.1 | 2492.8 | 2486.2 | 3006.3 | 6175.7 | 7778.1 | 7987.5 | 7427.6 |
| 42.5° | 2294.4 | 2248.1 | 2301.0 | 2382.6 | 2389.2 | 2395.8 | 2783.7 | 6378.5 | 8366.6 | 8633.3 | 8137.3 |
| 45° | 2223.9 | 2190.8 | 2217.3 | 2298.8 | 2298.8 | 2400.2 | 2644.9 | 6548.2 | 9252.6 | 9724.3 | 9439.9 |
| 47.5° | 2168.8 | 2148.9 | 2162.2 | 2188.6 | 2232.7 | 2479.6 | 2556.7 | 6678.3 | 10866.0 | 11791.7 | 11505.1 |
| 50° | 2137.9 | 2118.1 | 2135.7 | 2080.6 | 2212.9 | 2519.2 | 2528.0 | 6777.4 | 12992.9 | 14443.1 | 14088.3 |
| 52.5° | 2111.5 | 2104.9 | 2115.9 | 1988.1 | 2256.9 | 2492.8 | 2506.0 | 6645.2 | 14418.9 | 17052.7 | 17403.2 |
| 55° | 2102.7 | 2107.1 | 2054.2 | 1919.7 | 2309.8 | 2404.6 | 2439.9 | 5699.7 | 14806.8 | 19303.0 | 21478.4 |
| 57.5° | 2107.1 | 2093.8 | 1959.4 | 1926.3 | 2312.0 | 2228.3 | 2534.7 | 4066.5 | 14242.6 | 20281.6 | 25465.6 |
| 60° | 2091.6 | 2025.5 | 1844.8 | 1985.8 | 2210.7 | 2021.1 | 2466.3 | 2651.5 | 12754.8 | 19530.1 | 25697.0 |
| 62.5° | 2023.3 | 1926.3 | 1745.6 | 2018.9 | 2029.9 | 1897.7 | 2239.3 | 2043.2 | 10771.2 | 17921.1 | 23466.5 |
| 65° | 1924.1 | 1794.1 | 1661.9 | 1950.6 | 1847.0 | 1840.4 | 1683.9 | 1637.6 | 8661.9 | 16005.8 | 21350.6 |
| 67.5° | 1761.0 | 1631.0 | 1600.1 | 1794.1 | 1661.9 | 1631.0 | 1353.3 | 1357.7 | 6911.9 | 13964.8 | 19223.7 |
| 70° | 1575.9 | 1445.9 | 1470.1 | 1622.2 | 1478.9 | 1355.5 | 1095.4 | 1130.7 | 5243.4 | 11635.2 | 16356.2 |
| 72.5° | 1454.7 | 1280.6 | 1282.8 | 1428.2 | 1300.4 | 1097.6 | 901.5 | 932.3 | 3328.1 | 8769.9 | 13003.9 |
| 75° | 1227.7 | 1128.5 | 1080.0 | 1157.1 | 1104.2 | 855.2 | 758.2 | 751.6 | 1972.6 | 6285.9 | 9737.5 |
| 77.5° | 1024.9 | 947.7 | 923.5 | 954.4 | 824.3 | 632.6 | 610.5 | 599.5 | 1117.5 | 4026.8 | 6380.7 |
| 80° | 742.8 | 722.9 | 720.7 | 736.2 | 634.8 | 465.1 | 465.1 | 467.3 | 601.7 | 2186.4 | 3597.0 |
| 82.5° | 471.7 | 515.7 | 456.2 | 506.9 | 432.0 | 330.6 | 308.6 | 350.4 | 346.0 | 932.3 | 1516.4 |
| 85° | 196.2 | 268.9 | 251.3 | 266.7 | 205.0 | 180.7 | 194.0 | 209.4 | 200.6 | 359.3 | 590.7 |
| 87.5° | 37.5 | 44.1 | 48.5 | 46.3 | 46.3 | 57.3 | 63.9 | 77.1 | 77.1 | 103.6 | 178.5 |
| 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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| 0° | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 | 3592.6 |
| 2.5° | 3951.9 | 4015.8 | 4002.5 | 4031.2 | 3993.7 | 4007.0 | 3932.0 | 3912.2 | 3899.0 | 3903.4 |
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| 12.5° | 5415.3 | 5613.7 | 5706.3 | 5750.4 | 5746.0 | 5726.1 | 5532.2 | 5267.7 | 5186.1 | 5111.2 |
| 15° | 5596.1 | 5695.3 | 5660.0 | 5657.8 | 5688.6 | 5768.0 | 5708.5 | 5501.3 | 5406.5 | 5338.2 |
| 17.5° | 5712.9 | 5618.1 | 5461.6 | 5388.9 | 5455.0 | 5642.4 | 5779.0 | 5662.2 | 5576.2 | 5501.3 |
| 20° | 5754.8 | 5417.5 | 5190.5 | 5056.1 | 5133.2 | 5404.3 | 5741.5 | 5779.0 | 5706.3 | 5644.6 |
| 22.5° | 5706.3 | 5172.9 | 4864.3 | 4705.6 | 4780.6 | 5104.6 | 5631.3 | 5873.8 | 5825.3 | 5765.8 |
| 25° | 5587.3 | 4917.2 | 4546.9 | 4403.7 | 4485.2 | 4815.8 | 5435.2 | 5961.9 | 5964.2 | 5915.7 |
| 27.5° | 5439.6 | 4681.4 | 4324.3 | 4189.9 | 4269.2 | 4577.8 | 5243.4 | 6039.1 | 6116.2 | 6098.6 |
| 30° | 5289.7 | 4540.3 | 4218.5 | 4123.8 | 4183.3 | 4456.6 | 5047.3 | 6118.4 | 6272.7 | 6303.6 |
| 32.5° | 5221.4 | 4608.7 | 4467.6 | 4509.5 | 4432.3 | 4527.1 | 4976.7 | 6230.8 | 6462.3 | 6513.0 |
| 35° | 5311.8 | 5214.8 | 5571.8 | 5737.1 | 5463.8 | 5104.6 | 5067.1 | 6400.6 | 6729.0 | 6803.9 |
| 37.5° | 5750.4 | 6513.0 | 7046.3 | 7628.2 | 7154.3 | 6363.1 | 5514.5 | 6689.3 | 7110.3 | 7229.3 |
| 40° | 6704.7 | 7645.8 | 8609.0 | 9360.6 | 8644.3 | 7579.7 | 6365.3 | 7119.1 | 7634.8 | 7742.8 |
| 42.5° | 7604.0 | 8708.2 | 10035.0 | 11007.0 | 10076.9 | 8573.7 | 7282.2 | 7842.0 | 8326.9 | 8386.4 |
| 45° | 8485.6 | 9750.7 | 11760.8 | 13111.9 | 11849.0 | 9519.3 | 8218.9 | 9063.0 | 9428.9 | 9431.1 |
| 47.5° | 9519.3 | 10925.5 | 13925.2 | 15849.3 | 14200.7 | 10566.2 | 9098.3 | 10996.0 | 11505.1 | 11256.1 |
| 50° | 10755.7 | 12093.6 | 16153.5 | 19034.1 | 17068.1 | 11853.4 | 10215.8 | 13352.1 | 14046.4 | 13764.3 |
| 52.5° | 12411.0 | 13380.8 | 18608.8 | 22139.7 | 20193.5 | 13319.1 | 11835.7 | 16464.2 | 16693.5 | 16166.7 |
| 55° | 14740.7 | 15238.8 | 21760.6 | 25974.7 | 23682.5 | 15124.2 | 14205.1 | 20369.8 | 19728.4 | 18218.7 |
| 57.5° | 20045.8 | 18179.0 | 25807.2 | 30349.7 | 27629.9 | 18403.8 | 19397.8 | 24676.5 | 22395.3 | 19849.6 |
| 60° | 24484.8 | 21749.5 | 29551.9 | 34691.7 | 31013.1 | 22018.4 | 24273.2 | 25425.9 | 22296.1 | 19668.9 |
| 62.5° | 22988.2 | 22659.8 | 30902.9 | 35170.0 | 32168.1 | 23797.1 | 23367.3 | 23537.0 | 20841.5 | 18467.7 |
| 65° | 20169.2 | 20903.2 | 29697.3 | 32902.0 | 30887.5 | 22203.6 | 21136.8 | 21791.4 | 19177.4 | 16786.0 |
| 67.5° | 18505.2 | 19045.2 | 27552.8 | 29271.9 | 28560.0 | 20480.0 | 19402.2 | 18928.4 | 16594.3 | 14562.1 |
| 70° | 16803.7 | 17251.1 | 24542.1 | 24716.2 | 24930.0 | 17614.7 | 15864.7 | 14454.1 | 12369.1 | 10947.5 |
| 72.5° | 14520.3 | 14544.5 | 20735.7 | 19726.2 | 20131.8 | 13784.1 | 12770.2 | 10806.4 | 9003.5 | 7714.2 |
| 75° | 12181.8 | 11516.1 | 16413.5 | 13788.5 | 14601.8 | 10722.7 | 10603.7 | 8144.0 | 6790.7 | 5732.7 |
| 77.5° | 9287.9 | 8509.8 | 11990.0 | 9067.4 | 10255.4 | 7141.1 | 7972.0 | 5523.3 | 4778.4 | 3815.2 |
| 80° | 6235.2 | 5750.4 | 6625.4 | 5117.8 | 6709.1 | 4921.6 | 5199.3 | 3129.7 | 2713.2 | 2104.9 |
| 82.5° | 3288.4 | 2808.0 | 4095.1 | 3035.0 | 4046.6 | 2704.4 | 1950.6 | 967.6 | 824.3 | 665.6 |
| 85° | 1273.9 | 1474.5 | 2007.9 | 1080.0 | 1569.3 | 965.4 | 564.2 | 240.2 | 200.6 | 152.1 |
| 87.5° | 246.9 | 381.3 | 209.4 | 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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