

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: P643931

Luminaire Tested: GWS-SA6F-830-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37435.1 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

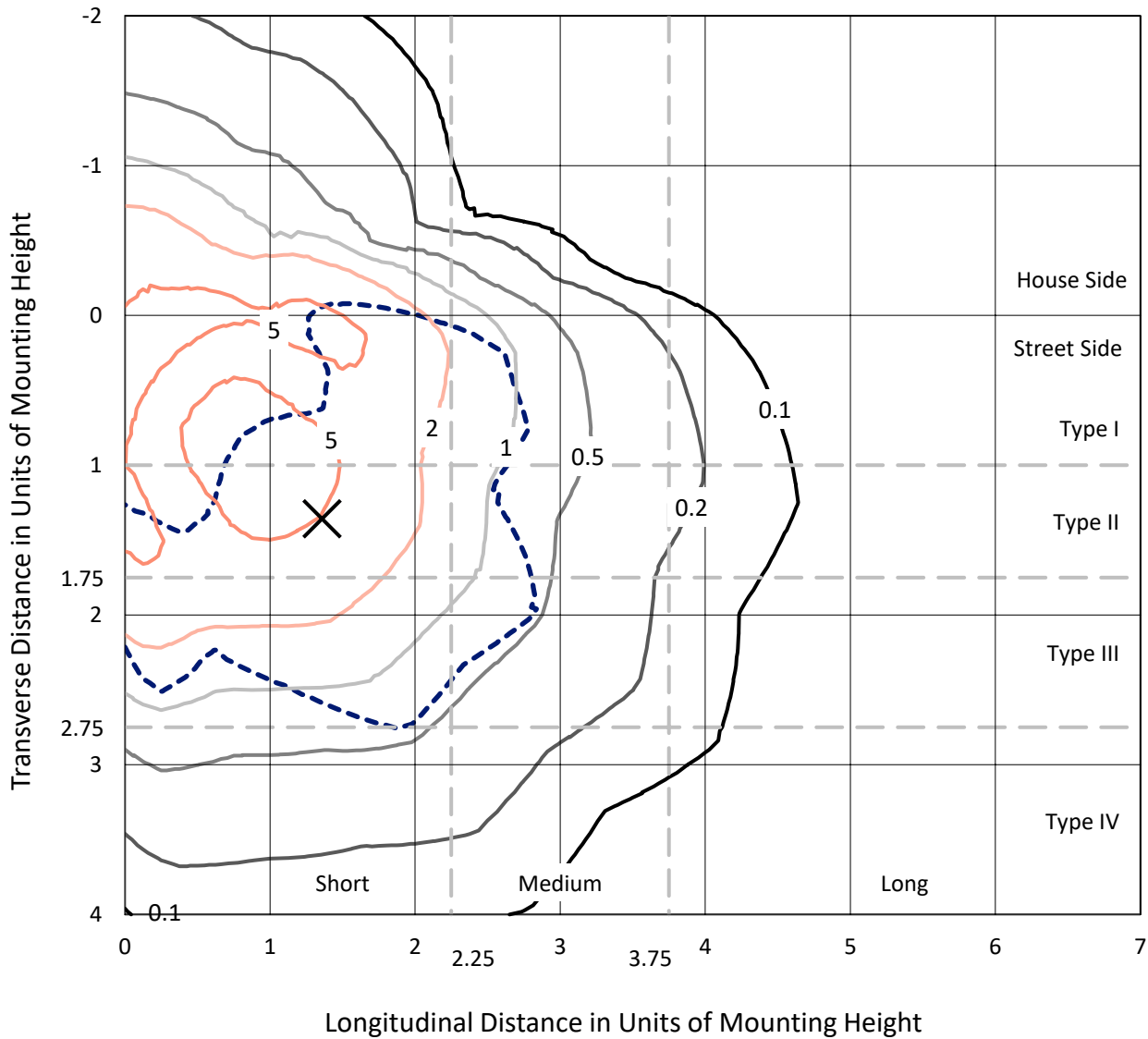
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643931
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Iso-Footcandle Lines of Horizontal Illumination

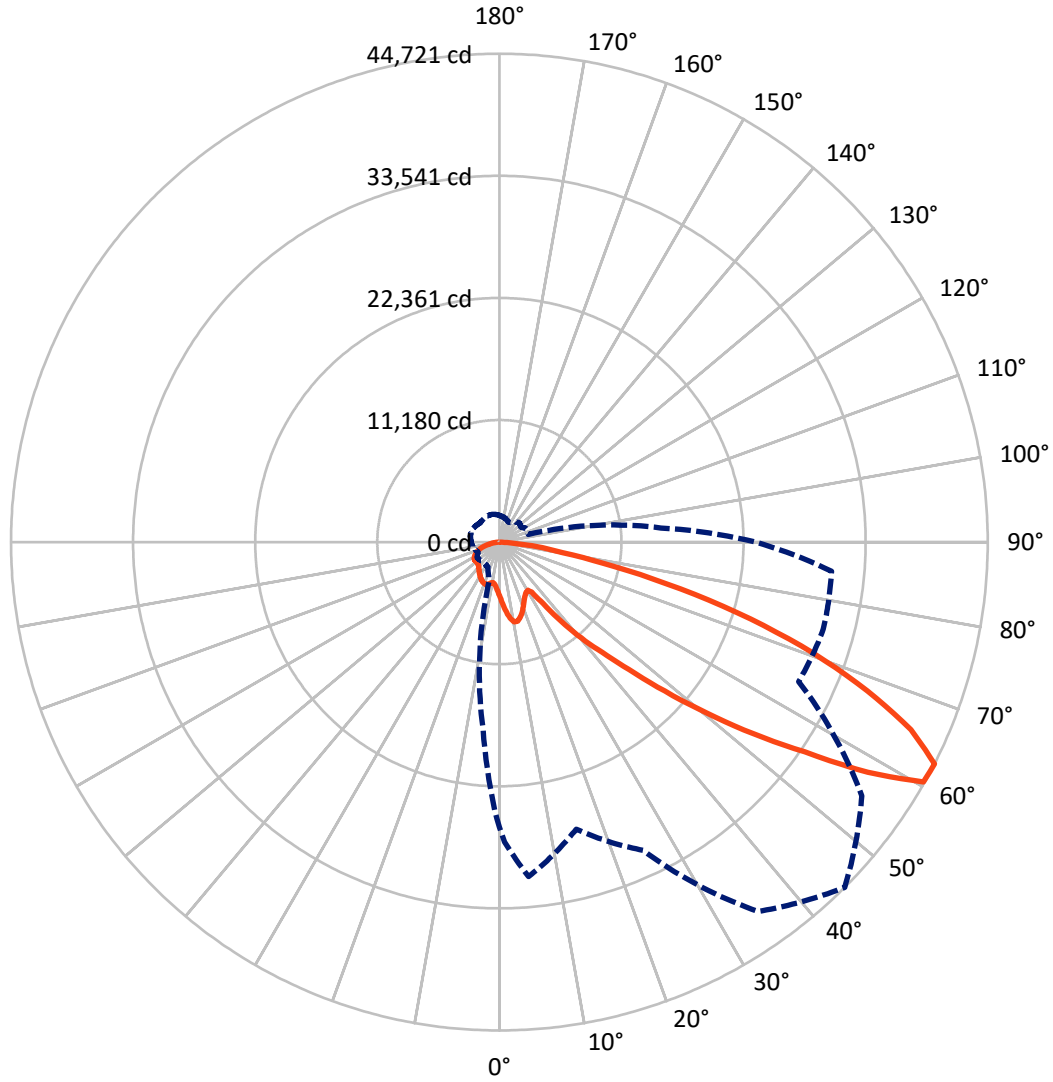
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8932.7 | 0.0 | 8932.7 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 28502.4 | 0.0 | 28502.4 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 37435.1 | 0.0 | 37435.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 485.2 | 1.3 |
| 10°-20° | 1521.1 | 4.1 |
| 20°-30° | 2362.6 | 6.3 |
| 30°-40° | 3207.8 | 8.6 |
| 40°-50° | 5084.1 | 13.6 |
| 50°-60° | 8968.4 | 24.0 |
| 60°-70° | 9978.7 | 26.7 |
| 70°-80° | 5060.8 | 13.5 |
| 80°-90° | 766.3 | 2.0 |
| 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° | 37435.1 | 100.0 |
| 0°-180° | 37435.1 | 100.0 |

Coefficient of Utilization



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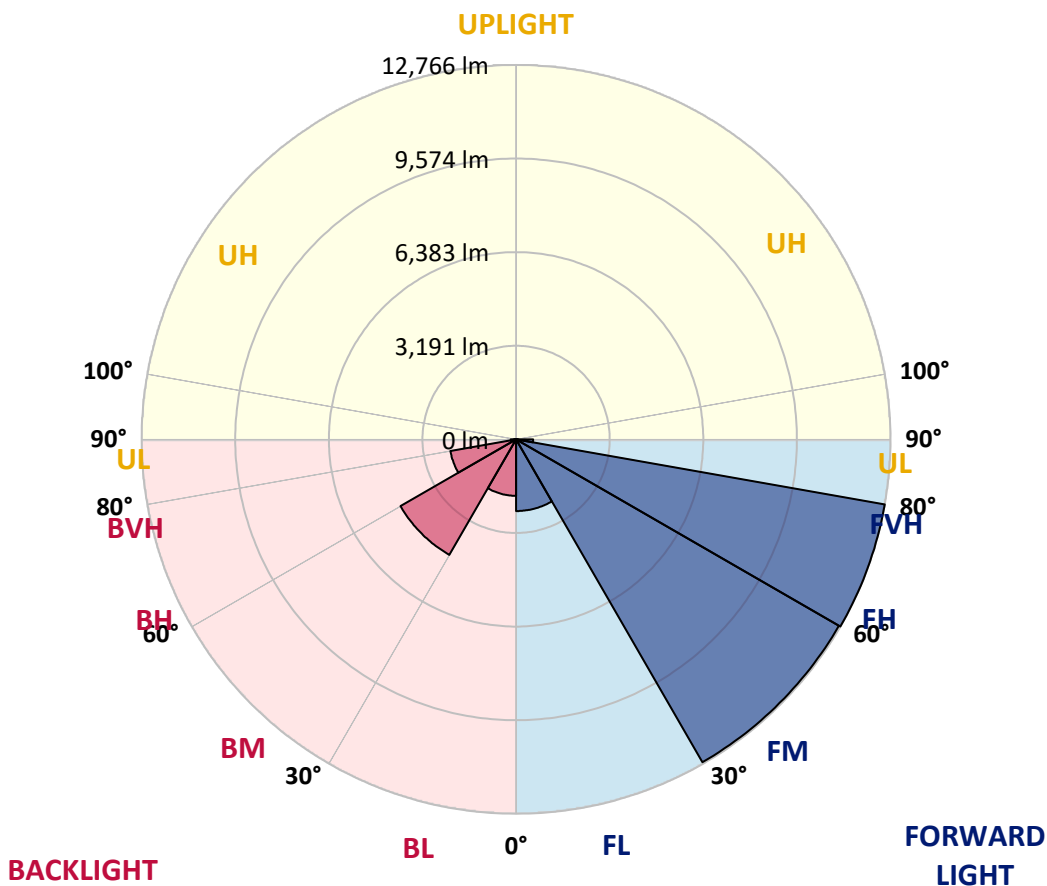
CATALOG NUMBER: GWS-SA6F-830-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2444.2 | 6.5 | | | |
| FM (30°-60°) | 12710.8 | 34.0 | | | |
| FH (60°-80°) | 12765.7 | 34.1 | | | G5 |
| FVH (80°-90°) | 581.6 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1924.8 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 4549.5 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 2273.8 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 184.7 | 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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 |
| 2.5° | 5339.7 | 5336.9 | 5390.7 | 5472.9 | 5549.4 | 5583.4 | 5640.1 | 5634.4 | 5589.1 | 5529.6 | 5509.7 |
| 5° | 5759.2 | 5770.5 | 5864.0 | 6045.4 | 6246.6 | 6331.7 | 6368.5 | 6354.3 | 6272.1 | 6167.3 | 5983.1 |
| 7.5° | 6138.9 | 6158.8 | 6303.3 | 6575.4 | 6824.8 | 6938.2 | 7028.9 | 7011.9 | 6892.8 | 6697.3 | 6425.2 |
| 10° | 6416.7 | 6439.4 | 6612.3 | 6932.5 | 7210.3 | 7309.5 | 7425.7 | 7431.3 | 7326.5 | 7062.9 | 6785.1 |
| 12.5° | 6694.4 | 6717.1 | 6878.7 | 7170.6 | 7352.0 | 7354.8 | 7422.8 | 7459.7 | 7465.4 | 7343.5 | 7065.7 |
| 15° | 6983.5 | 7003.4 | 7150.8 | 7315.1 | 7306.6 | 7147.9 | 7147.9 | 7218.8 | 7374.7 | 7462.5 | 7269.8 |
| 17.5° | 7230.1 | 7255.6 | 7369.0 | 7315.1 | 7062.9 | 6776.6 | 6742.6 | 6833.3 | 7105.4 | 7442.7 | 7422.8 |
| 20° | 7434.2 | 7454.0 | 7516.4 | 7159.3 | 6700.1 | 6326.0 | 6260.8 | 6365.7 | 6734.1 | 7320.8 | 7539.0 |
| 22.5° | 7629.7 | 7641.1 | 7607.1 | 6955.2 | 6309.0 | 5881.0 | 5801.7 | 5912.2 | 6309.0 | 7105.4 | 7638.2 |
| 25° | 7862.1 | 7850.8 | 7689.3 | 6742.6 | 5951.9 | 5529.6 | 5447.4 | 5572.1 | 5985.9 | 6819.2 | 7745.9 |
| 27.5° | 8131.4 | 8088.9 | 7760.1 | 6513.1 | 5677.0 | 5268.8 | 5212.1 | 5345.4 | 5730.8 | 6555.6 | 7831.0 |
| 30° | 8361.0 | 8278.8 | 7771.5 | 6309.0 | 5535.2 | 5158.3 | 5124.3 | 5249.0 | 5606.1 | 6377.0 | 7938.7 |
| 32.5° | 8616.1 | 8502.7 | 7836.6 | 6255.1 | 5614.6 | 5424.7 | 5470.1 | 5478.6 | 5640.1 | 6326.0 | 8100.2 |
| 35° | 8981.7 | 8834.3 | 8015.2 | 6411.0 | 6430.9 | 6751.1 | 6915.5 | 6694.4 | 6153.1 | 6439.4 | 8406.3 |
| 37.5° | 9534.3 | 9347.3 | 8378.0 | 7085.6 | 8117.2 | 8834.3 | 9231.1 | 8726.6 | 7711.9 | 6867.3 | 8868.3 |
| 40° | 10206.1 | 9968.0 | 8842.8 | 8332.6 | 9693.1 | 10840.9 | 11546.6 | 10806.9 | 9316.1 | 7935.8 | 9517.3 |
| 42.5° | 11144.2 | 10894.8 | 9744.1 | 9557.0 | 11152.7 | 12861.7 | 13782.9 | 12680.3 | 10730.4 | 9316.1 | 10557.5 |
| 45° | 12779.5 | 12538.6 | 11396.4 | 10784.2 | 12861.7 | 15350.2 | 16642.6 | 15109.3 | 12167.3 | 10702.0 | 12501.8 |
| 47.5° | 15800.8 | 15517.4 | 13850.9 | 12144.7 | 14811.7 | 18581.2 | 20389.4 | 18156.1 | 13661.0 | 12289.2 | 15766.8 |
| 50° | 19428.6 | 19156.5 | 16931.7 | 13754.5 | 16965.7 | 22036.1 | 24550.1 | 21735.7 | 15381.4 | 14219.3 | 19669.5 |
| 52.5° | 23793.3 | 23742.3 | 21327.6 | 15789.5 | 19207.6 | 25720.6 | 29167.0 | 25700.8 | 17266.1 | 16818.3 | 24090.9 |
| 55° | 27727.3 | 28226.1 | 26911.0 | 18893.0 | 22104.1 | 30348.9 | 33914.4 | 30025.8 | 19822.6 | 21115.0 | 29269.1 |
| 57.5° | 29847.3 | 31187.8 | 33208.7 | 25224.6 | 26315.8 | 35881.3 | 39772.7 | 35306.0 | 24215.6 | 28268.6 | 34070.3 |
| 60° | 28447.1 | 29966.3 | 33628.1 | 29991.8 | 30493.5 | 40314.1 | 44607.9 | 39744.4 | 28529.3 | 33234.2 | 33798.2 |
| 62.5° | 26117.4 | 27480.7 | 30737.2 | 27208.6 | 31139.7 | 41289.0 | 44721.3 | 40518.1 | 30244.1 | 30714.5 | 30530.3 |
| 65° | 23354.0 | 24728.6 | 28177.9 | 23750.8 | 29084.9 | 38973.5 | 41422.2 | 38242.2 | 27163.2 | 27749.9 | 27818.0 |
| 67.5° | 19683.7 | 20953.4 | 24465.1 | 21117.8 | 26511.4 | 35575.2 | 36357.5 | 34999.9 | 25014.9 | 25950.2 | 24972.4 |
| 70° | 14706.8 | 15851.8 | 18952.5 | 17161.3 | 22347.9 | 31148.2 | 30516.1 | 30717.4 | 22603.0 | 23532.6 | 20859.9 |
| 72.5° | 10050.2 | 10911.8 | 13570.3 | 13485.3 | 17113.1 | 24935.5 | 24054.1 | 25961.5 | 18878.8 | 20111.7 | 15902.9 |
| 75° | 7028.9 | 7700.6 | 9809.3 | 10653.9 | 12935.4 | 18482.0 | 17130.1 | 19431.5 | 14743.7 | 16503.7 | 11603.3 |
| 77.5° | 4313.7 | 4758.7 | 6195.6 | 7893.3 | 8321.3 | 12649.2 | 10639.7 | 14621.8 | 10353.4 | 12037.0 | 7740.3 |
| 80° | 2156.8 | 2372.2 | 3010.0 | 4962.7 | 5518.2 | 7454.0 | 5875.4 | 8488.5 | 7006.2 | 7454.0 | 4282.5 |
| 82.5° | 651.9 | 719.9 | 881.4 | 1884.8 | 2859.7 | 4291.0 | 3471.9 | 4931.6 | 3826.2 | 3494.6 | 1686.4 |
| 85° | 172.9 | 195.6 | 243.7 | 558.3 | 1003.3 | 1539.0 | 1173.4 | 2389.3 | 1833.7 | 1289.6 | 634.9 |
| 87.5° | 14.2 | 14.2 | 11.3 | 11.3 | 5.7 | 0.0 | 0.0 | 170.1 | 342.9 | 195.6 | 110.5 |
| 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-SA6F-830-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 |
| 2.5° | 5410.5 | 5399.2 | 5283.0 | 5198.0 | 5098.8 | 5002.4 | 4903.2 | 4815.4 | 4716.2 | 4617.0 | 4588.6 |
| 5° | 5847.0 | 5767.7 | 5521.1 | 5314.2 | 5110.1 | 4931.6 | 4775.7 | 4614.1 | 4483.7 | 4356.2 | 4308.0 |
| 7.5° | 6232.5 | 6093.6 | 5736.5 | 5421.9 | 5138.5 | 4917.4 | 4687.8 | 4452.6 | 4268.3 | 4087.0 | 4041.6 |
| 10° | 6581.1 | 6396.9 | 5946.2 | 5549.4 | 5234.8 | 4982.6 | 4713.3 | 4398.7 | 4132.3 | 3911.2 | 3851.7 |
| 12.5° | 6839.0 | 6637.8 | 6127.6 | 5671.3 | 5314.2 | 5030.8 | 4764.3 | 4486.6 | 4206.0 | 3919.7 | 3854.6 |
| 15° | 7043.1 | 6833.3 | 6277.8 | 5764.8 | 5317.0 | 4951.4 | 4693.5 | 4597.1 | 4509.3 | 4228.7 | 4109.6 |
| 17.5° | 7207.4 | 6986.4 | 6408.2 | 5821.5 | 5240.5 | 4710.5 | 4486.6 | 4628.3 | 4852.2 | 4676.5 | 4452.6 |
| 20° | 7357.7 | 7133.8 | 6507.4 | 5861.2 | 5070.4 | 4378.9 | 4254.2 | 4554.6 | 4891.9 | 4886.2 | 4685.0 |
| 22.5° | 7522.0 | 7303.8 | 6651.9 | 5883.9 | 4832.4 | 4041.6 | 4115.3 | 4446.9 | 4721.8 | 4804.0 | 4679.3 |
| 25° | 7731.8 | 7539.0 | 6853.2 | 5934.9 | 4563.1 | 3809.2 | 4013.3 | 4308.0 | 4537.6 | 4557.4 | 4483.7 |
| 27.5° | 7975.5 | 7831.0 | 7153.6 | 6053.9 | 4302.4 | 3690.2 | 3894.2 | 4112.5 | 4322.2 | 4330.7 | 4242.8 |
| 30° | 8241.9 | 8145.6 | 7431.3 | 6153.1 | 4106.8 | 3653.3 | 3741.2 | 3916.9 | 4050.1 | 4072.8 | 3996.3 |
| 32.5° | 8582.0 | 8497.0 | 7677.9 | 6087.9 | 3990.6 | 3644.8 | 3599.5 | 3690.2 | 3800.7 | 3800.7 | 3741.2 |
| 35° | 9049.7 | 8930.7 | 7938.7 | 5838.5 | 3848.9 | 3610.8 | 3449.3 | 3474.8 | 3522.9 | 3531.4 | 3497.4 |
| 37.5° | 9712.9 | 9517.3 | 8202.3 | 5345.4 | 3616.5 | 3488.9 | 3276.4 | 3245.2 | 3262.2 | 3284.9 | 3276.4 |
| 40° | 10534.8 | 10214.6 | 8587.7 | 4753.0 | 3338.7 | 3253.7 | 3097.8 | 3038.3 | 3024.1 | 3069.5 | 3086.5 |
| 42.5° | 11569.3 | 11079.0 | 9001.5 | 4200.3 | 3086.5 | 2984.4 | 2888.1 | 2837.1 | 2814.4 | 2890.9 | 2936.3 |
| 45° | 13221.7 | 12413.9 | 9398.3 | 3653.3 | 2944.8 | 2754.9 | 2689.7 | 2652.8 | 2664.2 | 2754.9 | 2811.6 |
| 47.5° | 16075.7 | 14451.7 | 9775.3 | 3307.5 | 2933.4 | 2590.5 | 2511.1 | 2519.6 | 2550.8 | 2647.2 | 2715.2 |
| 50° | 19686.5 | 17181.1 | 10027.5 | 3163.0 | 2967.4 | 2491.3 | 2386.4 | 2431.8 | 2479.9 | 2573.5 | 2652.8 |
| 52.5° | 23362.5 | 19723.4 | 9727.1 | 3083.6 | 2964.6 | 2494.1 | 2270.2 | 2406.3 | 2428.9 | 2522.5 | 2607.5 |
| 55° | 25890.7 | 20006.8 | 8403.5 | 2961.8 | 2919.3 | 2607.5 | 2179.5 | 2394.9 | 2409.1 | 2494.1 | 2570.6 |
| 57.5° | 26854.3 | 19037.5 | 6408.2 | 2995.8 | 2783.2 | 2695.4 | 2139.8 | 2315.6 | 2417.6 | 2491.3 | 2570.6 |
| 60° | 25689.4 | 17209.4 | 3894.2 | 3083.6 | 2565.0 | 2689.7 | 2165.4 | 2171.0 | 2346.7 | 2471.4 | 2550.8 |
| 62.5° | 23492.9 | 14862.7 | 2735.0 | 2834.2 | 2406.3 | 2539.5 | 2224.9 | 2001.0 | 2222.0 | 2372.2 | 2443.1 |
| 65° | 20976.1 | 12102.2 | 2086.0 | 2440.3 | 2329.7 | 2307.1 | 2244.7 | 1850.8 | 2052.0 | 2199.4 | 2261.7 |
| 67.5° | 18354.5 | 9406.8 | 1694.9 | 1819.6 | 2105.8 | 2086.0 | 2052.0 | 1717.5 | 1850.8 | 1955.6 | 2026.5 |
| 70° | 15052.6 | 6581.1 | 1431.3 | 1366.1 | 1805.4 | 1870.6 | 1794.1 | 1550.3 | 1592.8 | 1700.5 | 1757.2 |
| 72.5° | 11011.0 | 4101.1 | 1176.2 | 1128.0 | 1451.1 | 1635.3 | 1595.7 | 1366.1 | 1385.9 | 1488.0 | 1533.3 |
| 75° | 7918.8 | 2346.7 | 943.8 | 929.6 | 1108.2 | 1400.1 | 1320.8 | 1176.2 | 1198.9 | 1275.4 | 1306.6 |
| 77.5° | 5033.6 | 1306.6 | 728.4 | 748.2 | 793.6 | 1045.8 | 1128.0 | 1006.2 | 1006.2 | 1051.5 | 1077.0 |
| 80° | 2695.4 | 748.2 | 532.8 | 541.3 | 555.5 | 799.3 | 889.9 | 779.4 | 779.4 | 748.2 | 779.4 |
| 82.5° | 1099.7 | 430.8 | 365.6 | 340.1 | 371.3 | 547.0 | 623.5 | 496.0 | 518.7 | 467.6 | 479.0 |
| 85° | 362.8 | 215.4 | 181.4 | 178.6 | 175.7 | 240.9 | 300.4 | 246.6 | 294.8 | 187.1 | 195.6 |
| 87.5° | 48.2 | 39.7 | 22.7 | 17.0 | 19.8 | 8.5 | 17.0 | 19.8 | 19.8 | 14.2 | 14.2 |
| 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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CATALOG NUMBER: GWS-SA6F-830-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 |
| 2.5° | 4568.8 | 4546.1 | 4463.9 | 4483.7 | 4469.6 | 4446.9 | 4469.6 | 4427.1 | 4461.1 | 4472.4 | 4543.3 |
| 5° | 4271.2 | 4217.3 | 4138.0 | 4098.3 | 4089.8 | 4067.1 | 4070.0 | 4050.1 | 4055.8 | 4104.0 | 4183.3 |
| 7.5° | 4004.8 | 3953.7 | 3891.4 | 3863.1 | 3837.5 | 3812.0 | 3809.2 | 3806.4 | 3829.0 | 3871.6 | 3948.1 |
| 10° | 3812.0 | 3783.7 | 3758.2 | 3769.5 | 3758.2 | 3746.8 | 3727.0 | 3727.0 | 3763.9 | 3840.4 | 3933.9 |
| 12.5° | 3812.0 | 3806.4 | 3812.0 | 3846.0 | 3843.2 | 3846.0 | 3820.5 | 3834.7 | 3936.7 | 4067.1 | 4200.3 |
| 15° | 4016.1 | 3970.8 | 3970.8 | 3987.8 | 3982.1 | 3982.1 | 3982.1 | 4041.6 | 4274.0 | 4475.2 | 4617.0 |
| 17.5° | 4265.5 | 4132.3 | 4075.6 | 4067.1 | 4064.3 | 4064.3 | 4075.6 | 4203.2 | 4565.9 | 4778.5 | 4860.7 |
| 20° | 4438.4 | 4186.2 | 4092.6 | 4055.8 | 4058.6 | 4064.3 | 4098.3 | 4274.0 | 4673.6 | 4781.3 | 4761.5 |
| 22.5° | 4469.6 | 4143.6 | 4030.3 | 3976.4 | 3984.9 | 3990.6 | 4041.6 | 4228.7 | 4526.3 | 4543.3 | 4503.6 |
| 25° | 4325.0 | 4024.6 | 3902.7 | 3860.2 | 3871.6 | 3868.7 | 3914.1 | 4050.1 | 4262.7 | 4257.0 | 4234.3 |
| 27.5° | 4109.6 | 3834.7 | 3744.0 | 3715.7 | 3735.5 | 3712.8 | 3727.0 | 3831.9 | 3996.3 | 3990.6 | 3982.1 |
| 30° | 3888.6 | 3650.5 | 3568.3 | 3554.1 | 3579.6 | 3545.6 | 3548.5 | 3636.3 | 3749.7 | 3744.0 | 3741.2 |
| 32.5° | 3667.5 | 3466.3 | 3392.6 | 3392.6 | 3418.1 | 3381.2 | 3386.9 | 3463.4 | 3540.0 | 3517.3 | 3517.3 |
| 35° | 3457.8 | 3316.0 | 3256.5 | 3245.2 | 3265.0 | 3239.5 | 3250.9 | 3321.7 | 3350.1 | 3318.9 | 3299.0 |
| 37.5° | 3273.5 | 3211.2 | 3151.7 | 3112.0 | 3114.8 | 3117.7 | 3151.7 | 3205.5 | 3188.5 | 3143.2 | 3117.7 |
| 40° | 3103.5 | 3103.5 | 3046.8 | 2973.1 | 2964.6 | 2984.4 | 3041.1 | 3100.6 | 3052.5 | 3001.4 | 2970.3 |
| 42.5° | 2981.6 | 3007.1 | 2953.3 | 2879.6 | 2862.6 | 2896.6 | 2958.9 | 3001.4 | 2944.8 | 2888.1 | 2845.6 |
| 45° | 2868.2 | 2930.6 | 2893.7 | 2811.6 | 2788.9 | 2828.6 | 2907.9 | 2924.9 | 2848.4 | 2794.5 | 2763.4 |
| 47.5° | 2788.9 | 2873.9 | 2848.4 | 2769.0 | 2735.0 | 2791.7 | 2873.9 | 2871.1 | 2774.7 | 2718.0 | 2692.5 |
| 50° | 2732.2 | 2839.9 | 2837.1 | 2769.0 | 2732.2 | 2803.1 | 2876.7 | 2839.9 | 2735.0 | 2675.5 | 2650.0 |
| 52.5° | 2686.8 | 2837.1 | 2856.9 | 2817.2 | 2791.7 | 2854.1 | 2899.4 | 2828.6 | 2706.7 | 2644.3 | 2624.5 |
| 55° | 2667.0 | 2848.4 | 2862.6 | 2825.7 | 2803.1 | 2859.7 | 2899.4 | 2851.2 | 2706.7 | 2650.0 | 2633.0 |
| 57.5° | 2672.7 | 2834.2 | 2837.1 | 2786.0 | 2746.4 | 2817.2 | 2879.6 | 2865.4 | 2737.9 | 2672.7 | 2652.8 |
| 60° | 2638.7 | 2757.7 | 2763.4 | 2684.0 | 2638.7 | 2723.7 | 2834.2 | 2825.7 | 2723.7 | 2655.7 | 2618.8 |
| 62.5° | 2525.3 | 2630.2 | 2633.0 | 2559.3 | 2494.1 | 2616.0 | 2737.9 | 2735.0 | 2641.5 | 2573.5 | 2531.0 |
| 65° | 2335.4 | 2445.9 | 2474.3 | 2403.4 | 2352.4 | 2482.8 | 2610.3 | 2604.7 | 2511.1 | 2448.8 | 2406.3 |
| 67.5° | 2100.2 | 2219.2 | 2273.1 | 2224.9 | 2205.0 | 2324.1 | 2443.1 | 2440.3 | 2363.7 | 2304.2 | 2267.4 |
| 70° | 1813.9 | 1913.1 | 2003.8 | 2003.8 | 1989.6 | 2125.7 | 2253.2 | 2241.9 | 2171.0 | 2125.7 | 2097.3 |
| 72.5° | 1575.8 | 1652.4 | 1680.7 | 1709.0 | 1751.6 | 1893.3 | 2001.0 | 2009.5 | 1958.5 | 1935.8 | 1958.5 |
| 75° | 1340.6 | 1388.8 | 1414.3 | 1391.6 | 1465.3 | 1612.7 | 1754.4 | 1768.6 | 1714.7 | 1677.9 | 1686.4 |
| 77.5° | 1102.5 | 1156.4 | 1181.9 | 1130.9 | 1125.2 | 1312.2 | 1485.1 | 1516.3 | 1471.0 | 1414.3 | 1431.3 |
| 80° | 796.4 | 867.3 | 909.8 | 875.8 | 864.4 | 946.6 | 1184.7 | 1218.7 | 1176.2 | 1130.9 | 1156.4 |
| 82.5° | 487.5 | 527.2 | 538.5 | 572.5 | 643.4 | 677.4 | 762.4 | 875.8 | 844.6 | 804.9 | 875.8 |
| 85° | 192.7 | 229.6 | 255.1 | 289.1 | 337.3 | 399.6 | 470.5 | 561.2 | 510.2 | 493.2 | 581.0 |
| 87.5° | 11.3 | 2.8 | 0.0 | 5.7 | 48.2 | 93.5 | 201.2 | 277.8 | 232.4 | 249.4 | 300.4 |
| 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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| 0° | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 | 4968.4 |
| 2.5° | 4600.0 | 4673.6 | 4772.8 | 4855.0 | 4959.9 | 5059.1 | 5161.1 | 5263.2 | 5317.0 | 5339.7 |
| 5° | 4274.0 | 4410.1 | 4568.8 | 4744.5 | 4948.6 | 5164.0 | 5382.2 | 5606.1 | 5747.8 | 5759.2 |
| 7.5° | 4078.5 | 4274.0 | 4492.3 | 4713.3 | 4965.6 | 5263.2 | 5608.9 | 5954.7 | 6099.3 | 6138.9 |
| 10° | 4140.8 | 4359.0 | 4531.9 | 4738.8 | 5016.6 | 5387.9 | 5796.0 | 6201.3 | 6368.5 | 6416.7 |
| 12.5° | 4390.2 | 4432.7 | 4486.6 | 4676.5 | 5016.6 | 5495.6 | 5988.7 | 6470.5 | 6649.1 | 6694.4 |
| 15° | 4597.1 | 4393.1 | 4296.7 | 4497.9 | 4948.6 | 5589.1 | 6192.8 | 6725.6 | 6941.0 | 6983.5 |
| 17.5° | 4614.1 | 4262.7 | 4052.9 | 4234.3 | 4829.5 | 5654.3 | 6388.4 | 7009.0 | 7190.4 | 7230.1 |
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| 22.5° | 4245.7 | 4010.4 | 3715.7 | 3710.0 | 4472.4 | 5713.8 | 6700.1 | 7411.5 | 7604.2 | 7629.7 |
| 25° | 4061.4 | 3854.6 | 3605.1 | 3525.8 | 4245.7 | 5773.3 | 6929.7 | 7706.3 | 7853.6 | 7862.1 |
| 27.5° | 3846.0 | 3687.3 | 3517.3 | 3440.8 | 4047.3 | 5886.7 | 7269.8 | 8057.7 | 8145.6 | 8131.4 |
| 30° | 3650.5 | 3531.4 | 3454.9 | 3432.3 | 3922.6 | 5971.7 | 7592.9 | 8403.5 | 8409.2 | 8361.0 |
| 32.5° | 3443.6 | 3398.2 | 3398.2 | 3471.9 | 3820.5 | 5951.9 | 7856.5 | 8740.8 | 8686.9 | 8616.1 |
| 35° | 3259.4 | 3267.9 | 3327.4 | 3500.3 | 3650.5 | 5753.5 | 8108.7 | 9163.1 | 9083.7 | 8981.7 |
| 37.5° | 3083.6 | 3148.8 | 3233.9 | 3401.1 | 3426.6 | 5458.7 | 8403.5 | 9761.1 | 9661.9 | 9534.3 |
| 40° | 2933.4 | 3032.6 | 3131.8 | 3214.0 | 3188.5 | 5039.3 | 8814.5 | 10464.0 | 10353.4 | 10206.1 |
| 42.5° | 2814.4 | 2910.8 | 3021.3 | 3029.8 | 3038.3 | 4602.8 | 9250.9 | 11325.6 | 11305.7 | 11144.2 |
| 45° | 2737.9 | 2800.2 | 2905.1 | 2890.9 | 3029.8 | 4121.0 | 9653.4 | 12640.7 | 12901.4 | 12779.5 |
| 47.5° | 2686.8 | 2735.0 | 2746.4 | 2805.9 | 3103.5 | 3690.2 | 10172.0 | 15214.1 | 15939.7 | 15800.8 |
| 50° | 2658.5 | 2706.7 | 2579.1 | 2811.6 | 3114.8 | 3412.4 | 10889.1 | 18445.2 | 19612.9 | 19428.6 |
| 52.5° | 2655.7 | 2644.3 | 2451.6 | 2871.1 | 3052.5 | 3242.4 | 11263.2 | 20803.2 | 23393.7 | 23793.3 |
| 55° | 2661.3 | 2519.6 | 2386.4 | 2888.1 | 2927.8 | 3180.0 | 10010.5 | 21936.9 | 26882.7 | 27727.3 |
| 57.5° | 2610.3 | 2383.6 | 2423.3 | 2820.1 | 2692.5 | 3347.2 | 7400.2 | 21531.6 | 28277.1 | 29847.3 |
| 60° | 2514.0 | 2253.2 | 2491.3 | 2635.8 | 2451.6 | 3061.0 | 5095.9 | 19723.4 | 26831.6 | 28447.1 |
| 62.5° | 2375.1 | 2162.5 | 2482.8 | 2397.8 | 2363.7 | 2505.5 | 3503.1 | 17192.4 | 24538.7 | 26117.4 |
| 65° | 2219.2 | 2088.8 | 2349.6 | 2168.2 | 2188.0 | 1927.3 | 2477.1 | 14335.5 | 21800.9 | 23354.0 |
| 67.5° | 2052.0 | 2043.5 | 2154.0 | 1930.1 | 1847.9 | 1527.6 | 1805.4 | 11490.0 | 18283.6 | 19683.7 |
| 70° | 1862.1 | 1924.4 | 1958.5 | 1714.7 | 1499.3 | 1198.9 | 1340.6 | 8035.0 | 13488.1 | 14706.8 |
| 72.5° | 1672.2 | 1677.9 | 1726.0 | 1490.8 | 1122.4 | 960.8 | 1006.2 | 4866.4 | 9163.1 | 10050.2 |
| 75° | 1479.5 | 1425.6 | 1471.0 | 1213.0 | 836.1 | 787.9 | 776.6 | 3007.1 | 6328.8 | 7028.9 |
| 77.5° | 1272.6 | 1213.0 | 1153.5 | 912.6 | 671.7 | 609.4 | 595.2 | 1686.4 | 3882.9 | 4313.7 |
| 80° | 1034.5 | 955.1 | 861.6 | 668.9 | 490.3 | 436.5 | 433.6 | 821.9 | 1935.8 | 2156.8 |
| 82.5° | 804.9 | 654.7 | 629.2 | 416.6 | 303.3 | 266.4 | 283.4 | 314.6 | 583.9 | 651.9 |
| 85° | 564.0 | 476.2 | 334.4 | 167.2 | 136.0 | 110.5 | 107.7 | 93.5 | 155.9 | 172.9 |
| 87.5° | 314.6 | 206.9 | 107.7 | 19.8 | 22.7 | 25.5 | 19.8 | 14.2 | 14.2 | 14.2 |
| 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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