

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: P641006

Luminaire Tested: GWS-SA5F-722-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30123.9 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

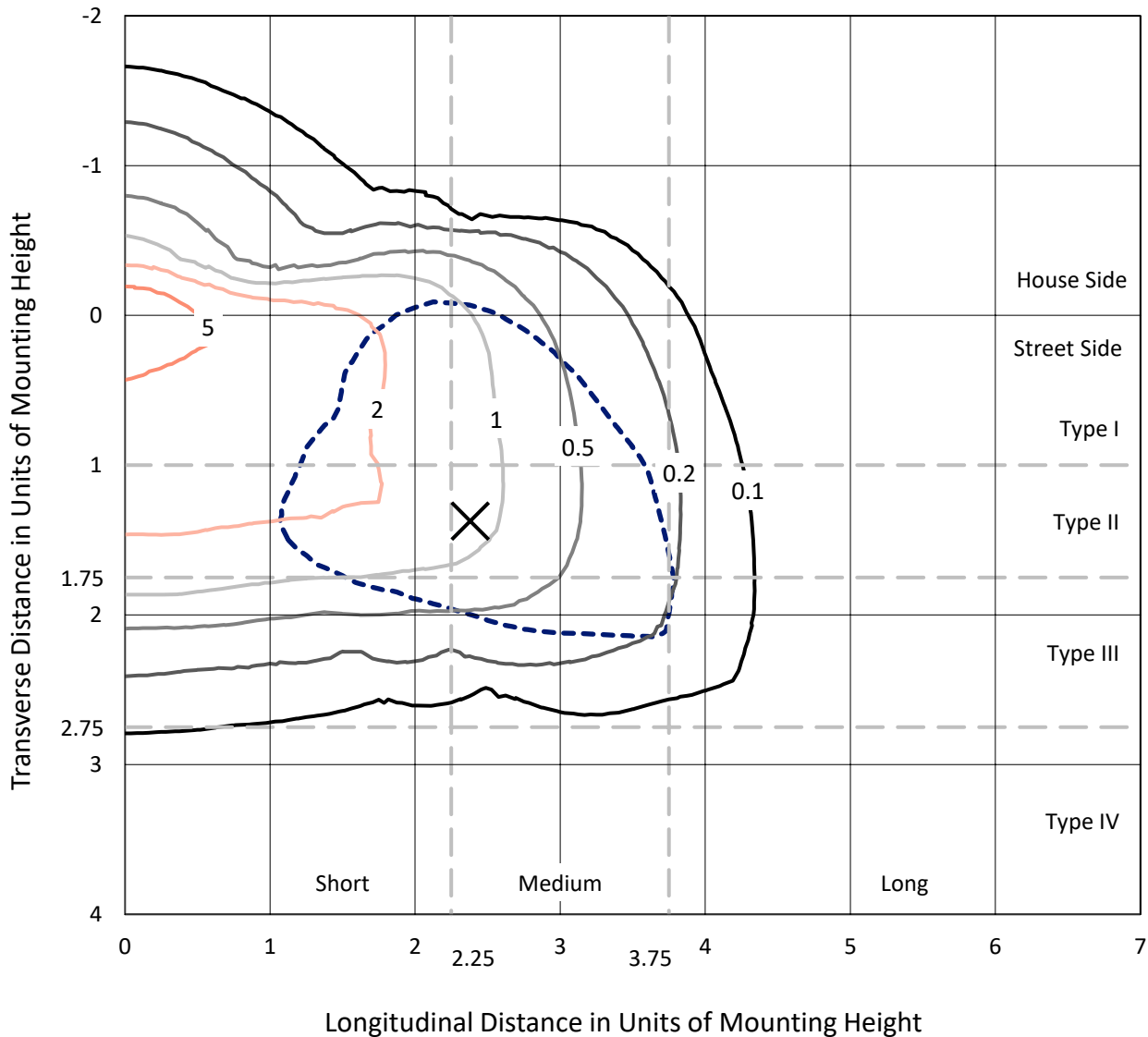
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

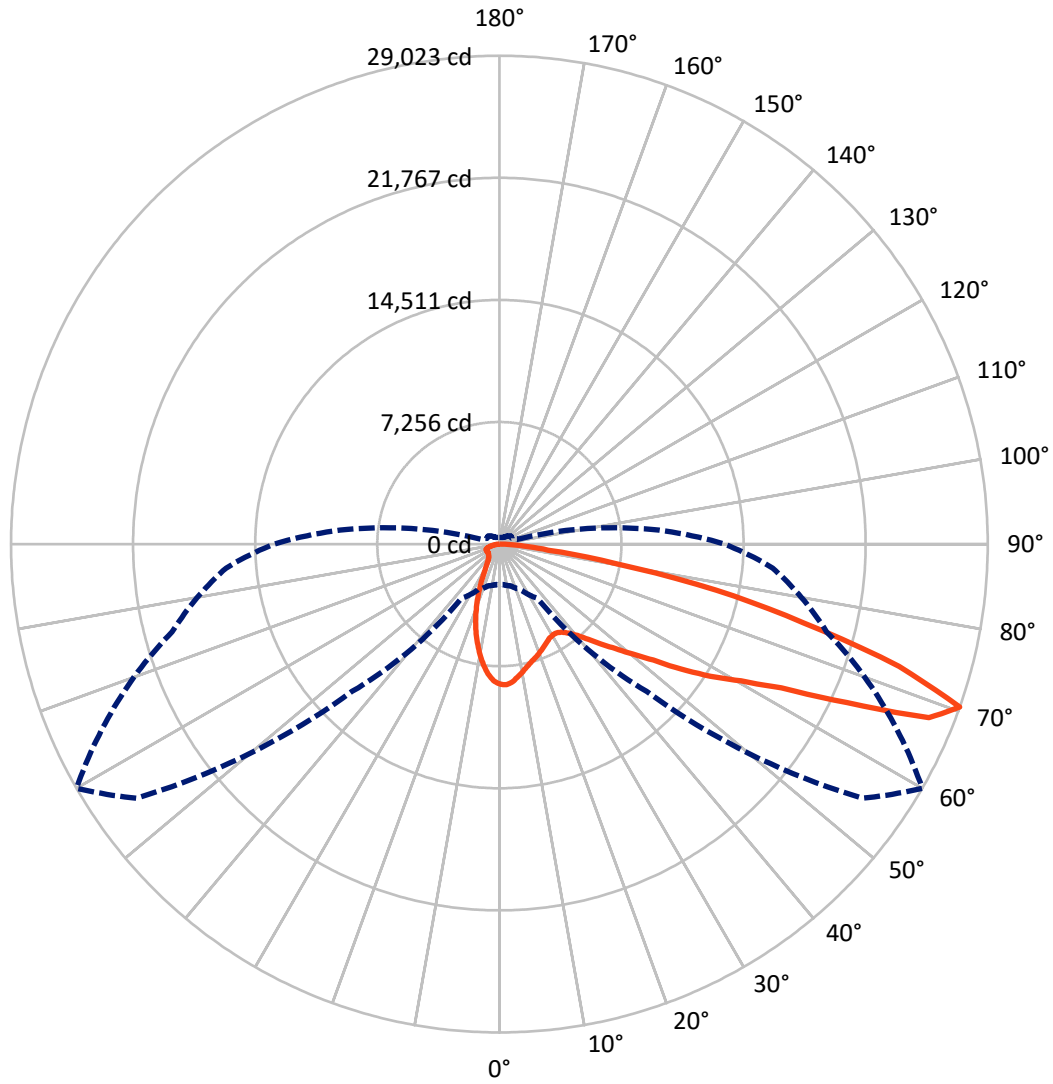
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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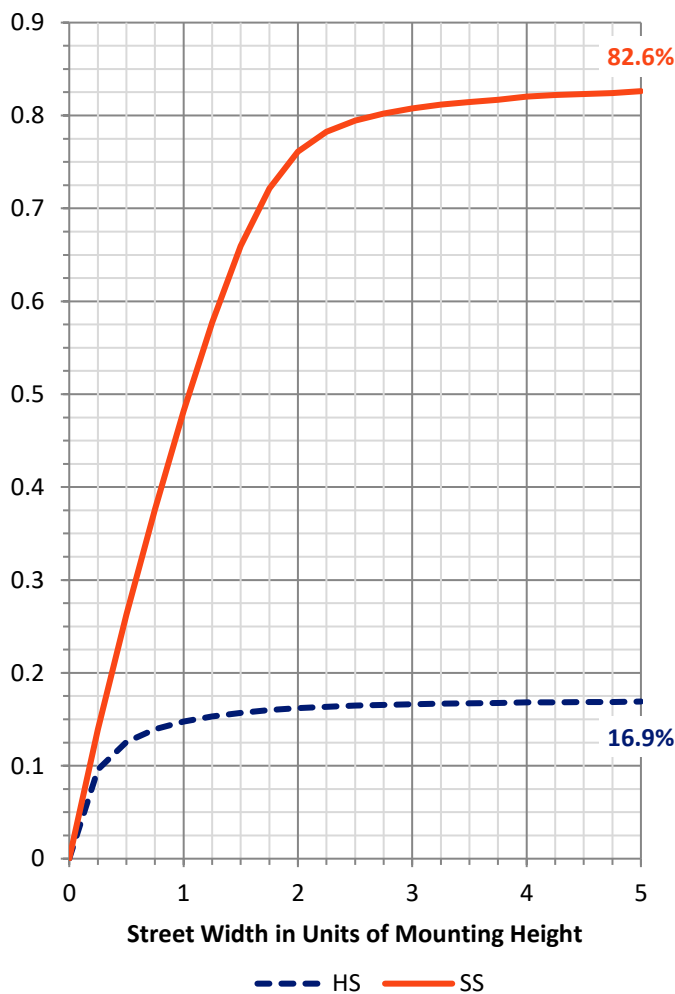
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5151.9 | 0.0 | 5151.9 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 24972.0 | 0.0 | 24972.0 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 30123.9 | 0.0 | 30123.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 718.5 | 2.4 |
| 10°-20° | 1609.7 | 5.3 |
| 20°-30° | 2061.5 | 6.8 |
| 30°-40° | 2709.2 | 9.0 |
| 40°-50° | 3930.7 | 13.0 |
| 50°-60° | 6132.8 | 20.4 |
| 60°-70° | 8029.0 | 26.7 |
| 70°-80° | 4439.8 | 14.7 |
| 80°-90° | 492.7 | 1.6 |
| 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° | 30123.9 | 100.0 |
| 0°-180° | 30123.9 | 100.0 |

Coefficient of Utilization



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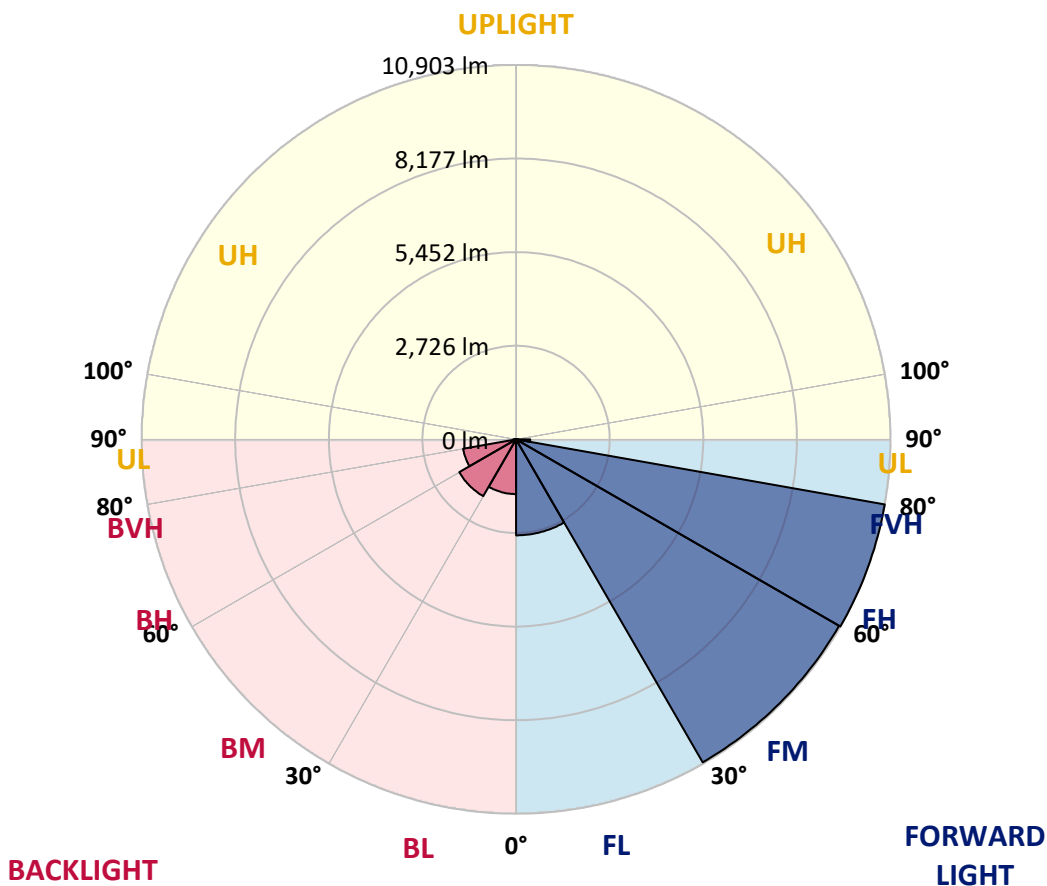
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2795.7 | 9.3 | | | |
| FM (30°-60°) | 10862.6 | 36.1 | | | |
| FH (60°-80°) | 10903.2 | 36.2 | | | G4/12000 |
| FVH (80°-90°) | 410.6 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1593.9 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 1910.2 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 1565.6 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 82.2 | 0.3 | | | G1/100 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 |
| 2.5° | 8218.9 | 8227.7 | 8251.9 | 8287.2 | 8322.4 | 8340.1 | 8384.2 | 8370.9 | 8362.1 | 8344.5 | 8322.4 |
| 5° | 7855.2 | 7872.8 | 7894.9 | 7963.2 | 8040.3 | 8102.0 | 8201.2 | 8212.2 | 8216.7 | 8225.5 | 8190.2 |
| 7.5° | 7392.3 | 7396.8 | 7449.6 | 7540.0 | 7641.4 | 7747.2 | 7912.5 | 7958.8 | 7998.5 | 8042.5 | 8013.9 |
| 10° | 6881.0 | 6892.0 | 6931.7 | 7061.7 | 7235.9 | 7392.3 | 7615.0 | 7692.1 | 7775.8 | 7872.8 | 7833.2 |
| 12.5° | 6462.2 | 6464.4 | 6528.4 | 6667.2 | 6856.8 | 7068.4 | 7346.1 | 7438.6 | 7548.8 | 7700.9 | 7665.6 |
| 15° | 6129.4 | 6129.4 | 6188.9 | 6308.0 | 6526.2 | 6775.2 | 7105.8 | 7224.8 | 7374.7 | 7579.7 | 7518.0 |
| 17.5° | 5864.9 | 5867.2 | 5904.6 | 6030.2 | 6224.2 | 6499.7 | 6892.0 | 7052.9 | 7218.2 | 7489.3 | 7396.8 |
| 20° | 5726.1 | 5715.1 | 5721.7 | 5798.8 | 5964.1 | 6230.8 | 6678.2 | 6865.6 | 7088.2 | 7427.6 | 7286.6 |
| 22.5° | 5719.5 | 5699.6 | 5671.0 | 5677.6 | 5774.6 | 5995.0 | 6449.0 | 6676.0 | 6955.9 | 7376.9 | 7174.1 |
| 25° | 5831.9 | 5809.8 | 5759.2 | 5701.8 | 5693.0 | 5825.3 | 6233.0 | 6490.9 | 6819.3 | 7354.9 | 7066.1 |
| 27.5° | 6021.4 | 6006.0 | 5939.9 | 5853.9 | 5763.6 | 5759.2 | 6069.9 | 6338.8 | 6720.1 | 7376.9 | 6989.0 |
| 30° | 6272.7 | 6246.2 | 6204.4 | 6094.2 | 5957.5 | 5816.5 | 6006.0 | 6257.3 | 6654.0 | 7447.4 | 6955.9 |
| 32.5° | 6557.0 | 6541.6 | 6501.9 | 6391.7 | 6246.2 | 6021.4 | 6056.7 | 6274.9 | 6654.0 | 7570.9 | 6962.6 |
| 35° | 6859.0 | 6856.8 | 6856.8 | 6784.0 | 6623.1 | 6343.2 | 6257.3 | 6424.8 | 6755.4 | 7769.2 | 7033.1 |
| 37.5° | 7152.1 | 7149.9 | 7220.4 | 7246.9 | 7063.9 | 6762.0 | 6598.9 | 6724.5 | 6978.0 | 8062.4 | 7207.2 |
| 40° | 7390.1 | 7399.0 | 7553.2 | 7685.5 | 7584.1 | 7304.2 | 7075.0 | 7138.9 | 7339.4 | 8478.9 | 7511.4 |
| 42.5° | 7630.4 | 7654.6 | 7886.0 | 8119.7 | 8159.3 | 7916.9 | 7685.5 | 7723.0 | 7857.4 | 9029.9 | 7965.4 |
| 45° | 7892.7 | 7903.7 | 8227.7 | 8553.9 | 8745.6 | 8602.4 | 8412.8 | 8463.5 | 8494.4 | 9711.0 | 8642.0 |
| 47.5° | 8146.1 | 8174.8 | 8593.5 | 9041.0 | 9404.6 | 9391.4 | 9285.6 | 9270.2 | 9276.8 | 10539.7 | 9442.1 |
| 50° | 8492.2 | 8534.0 | 9025.5 | 9565.5 | 10098.9 | 10343.6 | 10374.4 | 10257.6 | 10209.1 | 11461.0 | 10438.3 |
| 52.5° | 9149.0 | 9149.0 | 9589.8 | 10120.9 | 10837.3 | 11443.4 | 11650.5 | 11458.8 | 11304.5 | 12435.2 | 11496.3 |
| 55° | 9971.1 | 10006.3 | 10356.8 | 10786.6 | 11694.6 | 12600.5 | 13301.4 | 13089.8 | 12653.4 | 13495.3 | 12604.9 |
| 57.5° | 10336.9 | 10381.0 | 10936.4 | 11604.3 | 12816.5 | 13916.3 | 14888.3 | 14813.3 | 14176.4 | 14597.3 | 13755.4 |
| 60° | 9675.7 | 9768.3 | 10533.1 | 11652.8 | 13832.5 | 16038.8 | 16724.2 | 16506.0 | 15595.8 | 15754.5 | 15002.9 |
| 62.5° | 8071.2 | 8172.6 | 9021.1 | 10583.8 | 13691.5 | 18333.2 | 19618.1 | 18813.7 | 17367.8 | 17215.7 | 16664.7 |
| 65° | 4815.8 | 4811.4 | 5831.9 | 7903.7 | 11952.5 | 18970.2 | 24198.1 | 22697.2 | 20105.2 | 19221.4 | 18375.1 |
| 67.5° | 3061.4 | 3054.8 | 3268.6 | 4187.7 | 7954.4 | 17409.7 | 27142.7 | 27532.8 | 23823.5 | 20695.9 | 18516.1 |
| 70° | 2415.6 | 2413.4 | 2567.7 | 2986.5 | 3934.2 | 12388.9 | 26322.8 | 29022.8 | 26069.4 | 20133.9 | 16303.3 |
| 72.5° | 1761.0 | 1765.4 | 2003.5 | 2501.6 | 3035.0 | 6219.8 | 21315.3 | 24832.9 | 23977.7 | 17773.4 | 13235.3 |
| 75° | 1265.1 | 1271.7 | 1415.0 | 1915.3 | 2799.1 | 3400.8 | 14174.2 | 18672.6 | 18242.8 | 14246.9 | 9104.9 |
| 77.5° | 804.5 | 813.3 | 938.9 | 1342.3 | 2261.3 | 2746.2 | 8593.5 | 13182.4 | 12137.6 | 8027.1 | 3237.7 |
| 80° | 491.5 | 520.2 | 625.9 | 1000.6 | 1807.3 | 2060.8 | 4295.7 | 6944.9 | 6078.7 | 2201.8 | 1088.8 |
| 82.5° | 253.5 | 275.5 | 376.9 | 619.3 | 1245.3 | 1809.5 | 2431.1 | 2918.1 | 1882.2 | 921.3 | 579.7 |
| 85° | 79.3 | 92.6 | 132.2 | 251.3 | 592.9 | 1121.9 | 1608.9 | 1450.3 | 864.0 | 434.2 | 268.9 |
| 87.5° | 19.8 | 19.8 | 22.0 | 22.0 | 24.2 | 50.7 | 310.8 | 328.4 | 229.2 | 136.7 | 110.2 |
| 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-SA5F-722-U-SL3-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 | 8335.7 |
| 2.5° | 8278.4 | 8225.5 | 8203.4 | 8201.2 | 8146.1 | 8066.8 | 8013.9 | 7976.4 | 7954.4 | 7950.0 | 7950.0 |
| 5° | 8130.7 | 8062.4 | 7972.0 | 7903.7 | 7756.0 | 7606.1 | 7480.5 | 7410.0 | 7328.4 | 7317.4 | 7315.2 |
| 7.5° | 7934.5 | 7835.4 | 7663.4 | 7471.7 | 7213.8 | 6964.8 | 6753.2 | 6609.9 | 6466.6 | 6440.2 | 6431.4 |
| 10° | 7723.0 | 7588.5 | 7295.4 | 6958.1 | 6572.4 | 6200.0 | 5876.0 | 5622.5 | 5455.0 | 5336.0 | 5313.9 |
| 12.5° | 7513.6 | 7335.0 | 6905.3 | 6402.7 | 5873.8 | 5364.6 | 4877.5 | 4463.2 | 4163.4 | 3989.3 | 3958.5 |
| 15° | 7317.4 | 7068.4 | 6479.9 | 5838.5 | 5150.8 | 4454.4 | 3764.5 | 3226.7 | 2805.7 | 2655.9 | 2620.6 |
| 17.5° | 7138.9 | 6828.1 | 6067.7 | 5254.4 | 4397.1 | 3486.8 | 2702.2 | 2223.9 | 1977.0 | 1902.1 | 1884.5 |
| 20° | 6960.4 | 6581.3 | 5649.0 | 4639.5 | 3597.0 | 2576.5 | 1974.8 | 1750.0 | 1657.4 | 1628.8 | 1620.0 |
| 22.5° | 6768.6 | 6310.2 | 5192.7 | 4033.4 | 2788.1 | 1928.5 | 1615.6 | 1516.4 | 1487.7 | 1489.9 | 1487.7 |
| 25° | 6576.9 | 6034.7 | 4714.4 | 3374.4 | 2076.2 | 1564.9 | 1410.6 | 1373.1 | 1379.7 | 1399.6 | 1404.0 |
| 27.5° | 6418.2 | 5790.0 | 4245.0 | 2651.5 | 1622.2 | 1346.7 | 1273.9 | 1271.7 | 1296.0 | 1322.4 | 1326.8 |
| 30° | 6303.5 | 5571.8 | 3782.1 | 2038.7 | 1335.6 | 1196.8 | 1168.1 | 1181.4 | 1210.0 | 1229.9 | 1236.5 |
| 32.5° | 6222.0 | 5384.5 | 3288.4 | 1602.3 | 1170.3 | 1091.0 | 1077.8 | 1091.0 | 1108.6 | 1128.5 | 1132.9 |
| 35° | 6193.3 | 5247.8 | 2803.5 | 1307.0 | 1057.9 | 1013.9 | 1005.0 | 1011.7 | 1020.5 | 1031.5 | 1035.9 |
| 37.5° | 6257.3 | 5179.5 | 2296.6 | 1137.3 | 989.6 | 963.2 | 949.9 | 945.5 | 947.7 | 952.1 | 954.3 |
| 40° | 6446.8 | 5210.3 | 1882.2 | 1038.1 | 945.5 | 921.3 | 899.2 | 890.4 | 888.2 | 892.6 | 890.4 |
| 42.5° | 6773.0 | 5340.4 | 1582.5 | 980.8 | 910.3 | 875.0 | 850.8 | 841.9 | 841.9 | 853.0 | 853.0 |
| 45° | 7251.3 | 5596.1 | 1366.5 | 938.9 | 879.4 | 835.3 | 808.9 | 804.5 | 813.3 | 830.9 | 833.1 |
| 47.5° | 7952.2 | 5970.7 | 1236.5 | 908.1 | 850.8 | 800.1 | 773.6 | 771.4 | 789.0 | 817.7 | 819.9 |
| 50° | 8783.1 | 6510.7 | 1165.9 | 886.0 | 830.9 | 771.4 | 745.0 | 747.2 | 767.0 | 797.9 | 804.5 |
| 52.5° | 9783.7 | 7246.9 | 1170.3 | 877.2 | 819.9 | 753.8 | 727.3 | 722.9 | 742.8 | 773.6 | 780.2 |
| 55° | 10817.4 | 8141.7 | 1256.3 | 879.4 | 804.5 | 745.0 | 709.7 | 694.3 | 711.9 | 733.9 | 736.1 |
| 57.5° | 11954.7 | 9151.2 | 1470.1 | 875.0 | 784.6 | 736.1 | 694.3 | 659.0 | 670.0 | 683.3 | 689.9 |
| 60° | 13237.5 | 10339.1 | 1930.7 | 883.8 | 775.8 | 716.3 | 663.4 | 617.1 | 614.9 | 623.7 | 625.9 |
| 62.5° | 14952.2 | 11954.7 | 2448.7 | 899.2 | 795.7 | 692.1 | 617.1 | 568.6 | 559.8 | 564.2 | 566.4 |
| 65° | 16263.6 | 12726.1 | 2285.6 | 886.0 | 837.5 | 674.4 | 573.0 | 522.4 | 504.7 | 500.3 | 500.3 |
| 67.5° | 15730.2 | 11705.6 | 1591.3 | 850.8 | 857.4 | 676.6 | 537.8 | 473.9 | 451.8 | 440.8 | 438.6 |
| 70° | 13385.1 | 9508.2 | 1106.4 | 815.5 | 835.3 | 672.2 | 500.3 | 434.2 | 405.5 | 390.1 | 387.9 |
| 72.5° | 10575.0 | 7260.1 | 894.8 | 745.0 | 758.2 | 606.1 | 445.2 | 390.1 | 365.9 | 346.0 | 346.0 |
| 75° | 6806.1 | 4430.1 | 747.2 | 663.4 | 619.3 | 471.7 | 385.7 | 348.2 | 324.0 | 304.2 | 304.2 |
| 77.5° | 2290.0 | 1644.2 | 579.7 | 562.0 | 462.8 | 354.9 | 324.0 | 299.7 | 279.9 | 262.3 | 260.1 |
| 80° | 930.1 | 780.2 | 425.4 | 425.4 | 324.0 | 271.1 | 253.5 | 242.4 | 229.2 | 207.2 | 207.2 |
| 82.5° | 540.0 | 473.9 | 297.5 | 257.9 | 216.0 | 187.3 | 176.3 | 165.3 | 165.3 | 149.9 | 149.9 |
| 85° | 260.1 | 262.3 | 178.5 | 158.7 | 123.4 | 108.0 | 103.6 | 97.0 | 94.8 | 86.0 | 83.8 |
| 87.5° | 141.1 | 143.3 | 90.4 | 70.5 | 48.5 | 41.9 | 35.3 | 33.1 | 30.9 | 28.7 | 28.7 |
| 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)