

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: P643486

Luminaire Tested: GWS-SA6F-722-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-722-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22196.8 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

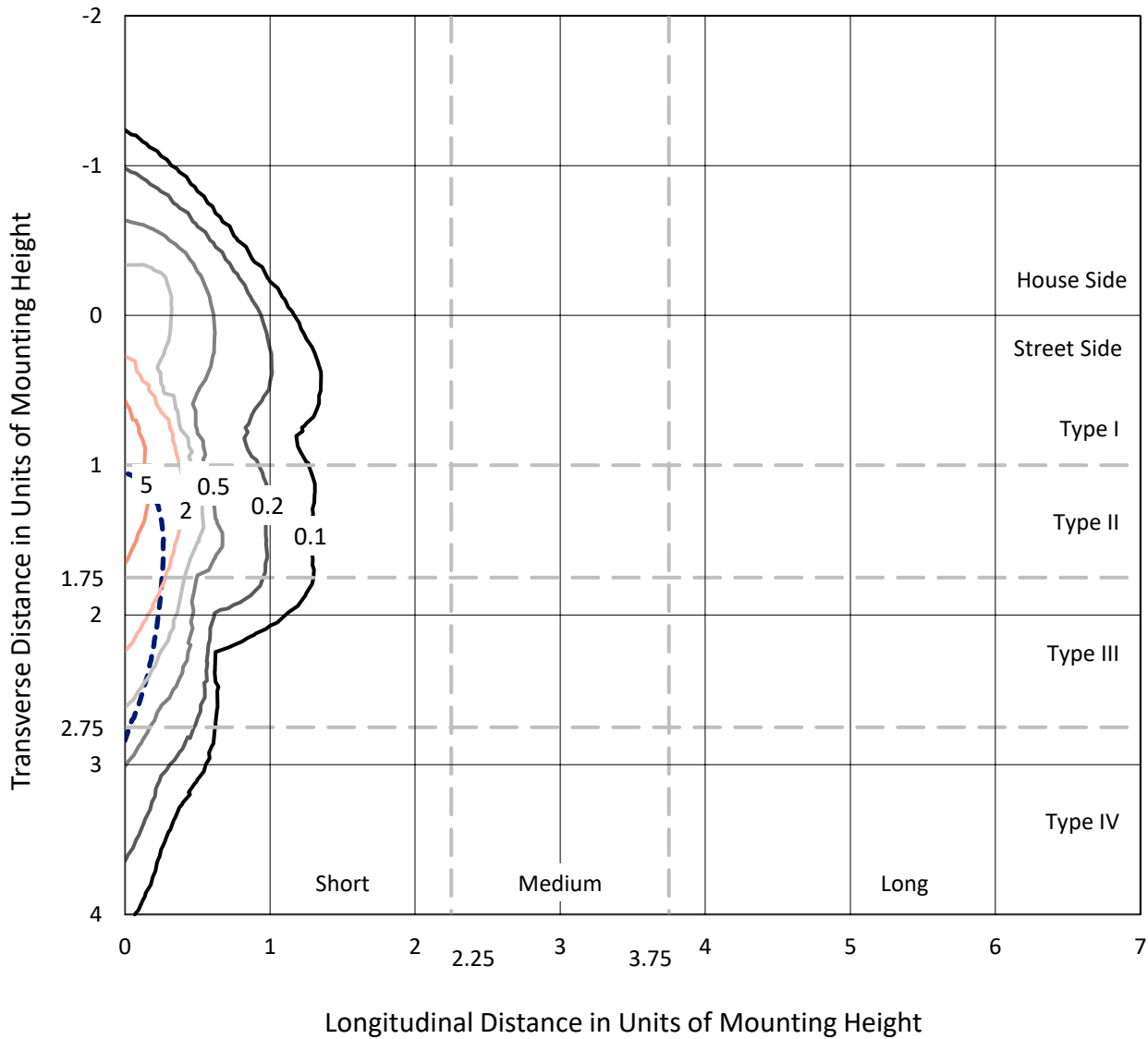
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643486
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Iso-Footcandle Lines of Horizontal Illumination

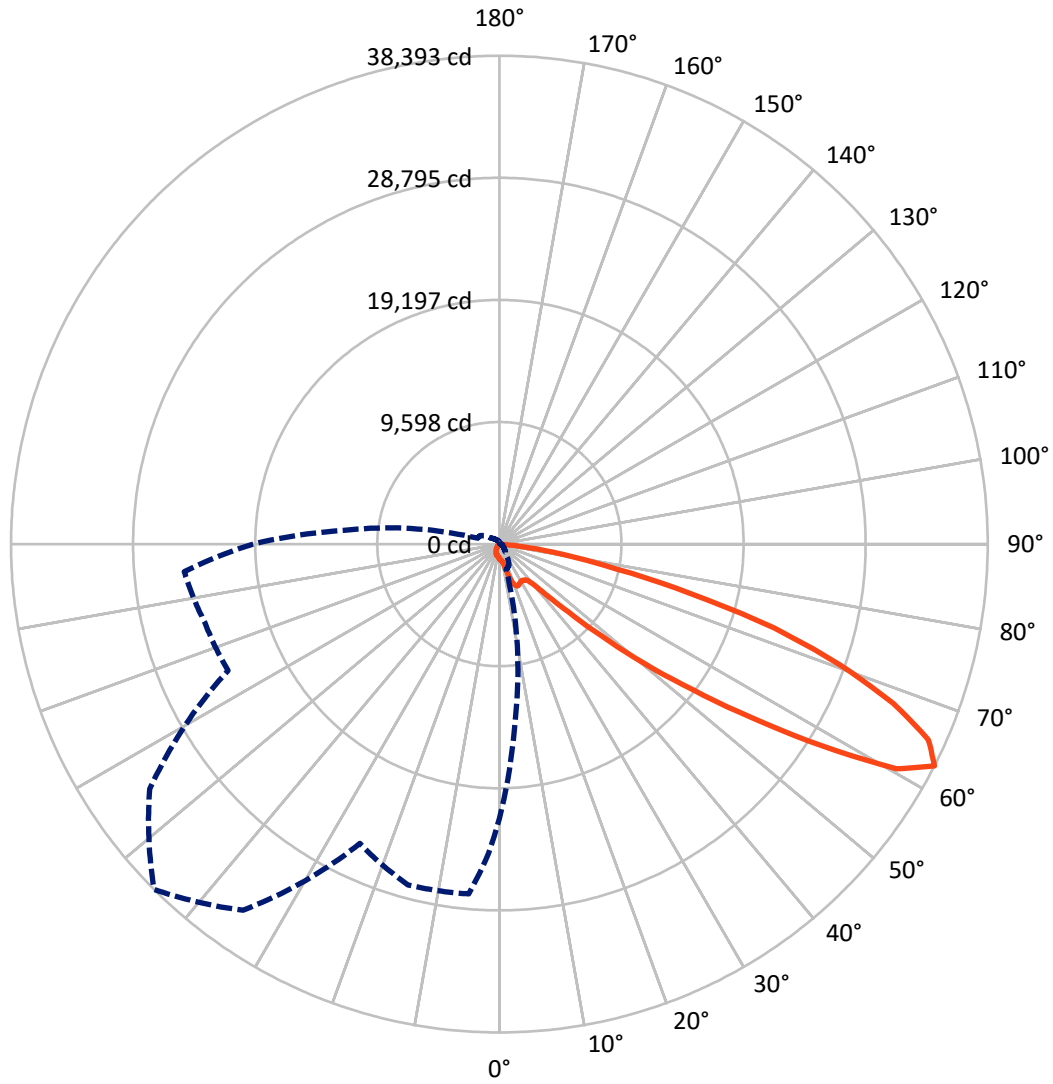
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

REPORT NUMBER: P643486
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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 | 2579.0 | 0.0 | 2579.0 |
| | % Fixture | 11.6 | 0.0 | 11.6 |
| Street Side | Lumens | 19617.8 | 0.0 | 19617.8 |
| | % Fixture | 88.4 | 0.0 | 88.4 |
| Total | Lumens | 22196.8 | 0.0 | 22196.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 99.4 | 0.4 |
| 10°-20° | 340.7 | 1.5 |
| 20°-30° | 769.7 | 3.5 |
| 30°-40° | 1326.0 | 6.0 |
| 40°-50° | 2501.4 | 11.3 |
| 50°-60° | 5584.9 | 25.2 |
| 60°-70° | 7469.7 | 33.7 |
| 70°-80° | 3745.9 | 16.9 |
| 80°-90° | 359.0 | 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° | 22196.8 | 100.0 |
| 0°-180° | 22196.8 | 100.0 |

Coefficient of Utilization



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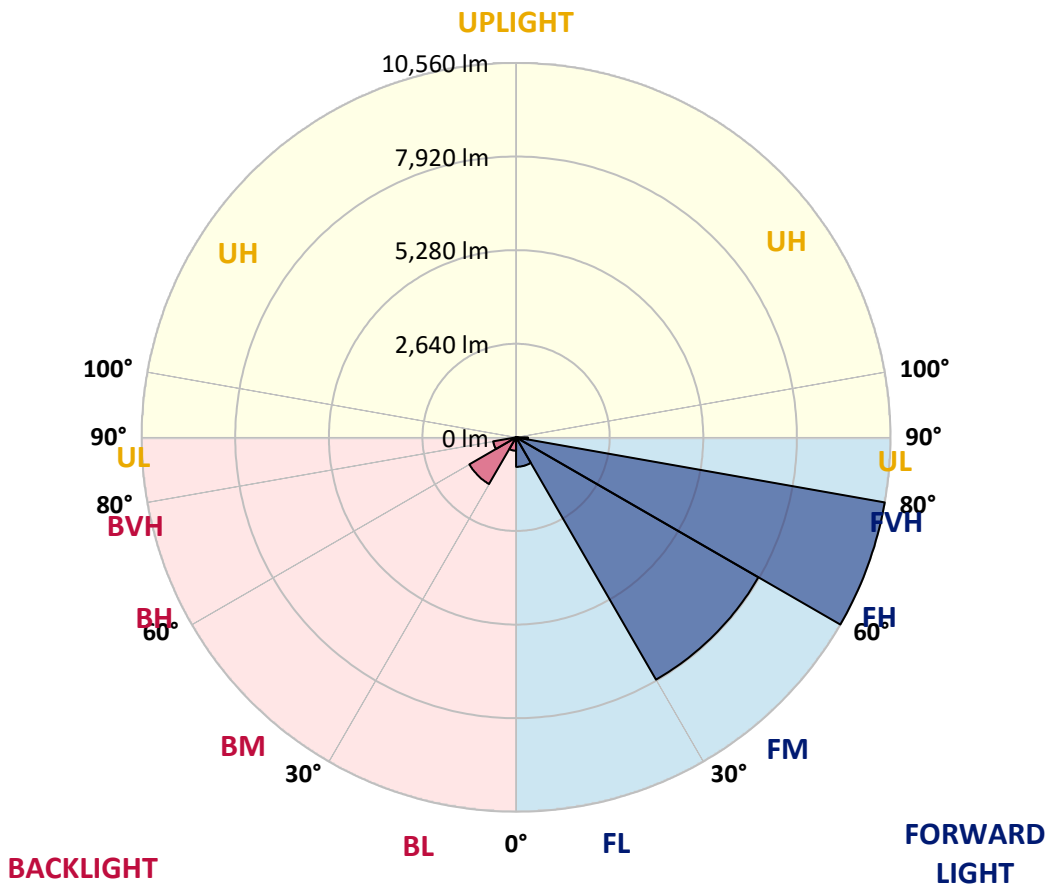
CATALOG NUMBER: GWS-SA6F-722-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|---------------------------------------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 831.3 | 3.7 | | | |
| FM (30°-60°) | 7891.6 | 35.6 | | | |
| FH (60°-80°) | 10559.7 | 47.6 | | | G4/12000 |
| FVH (80°-90°) | 335.2 | 1.5 | | | G3/500 |
| BL (0°-30°) | 378.5 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1520.7 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 655.8 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 23.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 <td></td> <td>U0/0</td> <td></td> | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CATALOG NUMBER: GWS-SA6F-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 |
| 2.5° | 1138.0 | 1135.4 | 1130.1 | 1114.4 | 1101.2 | 1093.3 | 1077.6 | 1077.6 | 1074.9 | 1069.7 | 1059.2 |
| 5° | 1101.2 | 1090.7 | 1080.2 | 1051.3 | 1019.7 | 1001.3 | 980.3 | 977.7 | 977.7 | 972.4 | 969.8 |
| 7.5° | 1043.4 | 1032.9 | 1019.7 | 972.4 | 943.5 | 925.1 | 906.7 | 904.1 | 896.2 | 896.2 | 896.2 |
| 10° | 1011.9 | 996.1 | 975.1 | 922.5 | 893.6 | 877.8 | 864.7 | 856.8 | 851.5 | 843.7 | 841.0 |
| 12.5° | 1080.2 | 1051.3 | 1006.6 | 912.0 | 872.6 | 851.5 | 835.8 | 830.5 | 814.7 | 804.2 | 796.3 |
| 15° | 1293.1 | 1222.1 | 1132.8 | 935.6 | 864.7 | 833.1 | 812.1 | 801.6 | 788.5 | 770.1 | 756.9 |
| 17.5° | 1642.6 | 1540.1 | 1390.3 | 1011.9 | 856.8 | 817.4 | 791.1 | 772.7 | 754.3 | 733.3 | 717.5 |
| 20° | 2126.2 | 1973.8 | 1795.1 | 1151.2 | 856.8 | 799.0 | 767.4 | 743.8 | 717.5 | 693.8 | 675.5 |
| 22.5° | 2741.2 | 2588.8 | 2283.9 | 1387.7 | 867.3 | 775.3 | 738.5 | 707.0 | 675.5 | 654.4 | 633.4 |
| 25° | 3429.8 | 3214.3 | 2930.5 | 1674.2 | 896.2 | 743.8 | 704.4 | 672.8 | 643.9 | 617.6 | 594.0 |
| 27.5° | 4197.3 | 3963.3 | 3584.9 | 2081.5 | 959.3 | 712.2 | 667.6 | 638.7 | 612.4 | 586.1 | 554.6 |
| 30° | 4904.2 | 4765.0 | 4378.6 | 2570.4 | 1061.8 | 691.2 | 638.7 | 612.4 | 586.1 | 551.9 | 523.0 |
| 32.5° | 5753.2 | 5506.1 | 5188.1 | 3127.6 | 1198.5 | 670.2 | 615.0 | 578.2 | 557.2 | 525.6 | 494.1 |
| 35° | 6607.3 | 6397.1 | 5979.2 | 3813.5 | 1350.9 | 649.2 | 586.1 | 551.9 | 533.5 | 496.7 | 462.6 |
| 37.5° | 7487.8 | 7440.5 | 7027.8 | 4573.1 | 1500.7 | 625.5 | 551.9 | 530.9 | 512.5 | 470.5 | 431.0 |
| 40° | 8355.1 | 8268.4 | 7887.3 | 5440.4 | 1592.7 | 599.2 | 523.0 | 509.9 | 488.8 | 441.5 | 396.9 |
| 42.5° | 9185.6 | 9119.9 | 8749.3 | 6270.9 | 1579.6 | 575.6 | 494.1 | 478.3 | 462.6 | 415.3 | 360.1 |
| 45° | 10205.4 | 10097.6 | 9629.8 | 6885.9 | 1445.5 | 601.9 | 465.2 | 438.9 | 436.3 | 391.6 | 323.3 |
| 47.5° | 12113.4 | 11758.6 | 10964.9 | 7359.0 | 1311.5 | 670.2 | 433.7 | 402.1 | 420.5 | 368.0 | 286.5 |
| 50° | 14786.3 | 14368.4 | 13219.9 | 7727.0 | 1308.9 | 759.6 | 428.4 | 368.0 | 407.4 | 349.6 | 254.9 |
| 52.5° | 17472.4 | 16736.5 | 15340.9 | 7924.1 | 1406.1 | 825.3 | 475.7 | 333.8 | 391.6 | 331.2 | 231.3 |
| 55° | 20045.4 | 18518.4 | 16229.2 | 7272.3 | 1482.3 | 896.2 | 562.4 | 315.4 | 362.7 | 310.1 | 218.1 |
| 57.5° | 22497.5 | 19950.8 | 16615.6 | 5753.2 | 1737.2 | 925.1 | 615.0 | 323.3 | 320.6 | 283.8 | 207.6 |
| 60° | 22833.9 | 19882.4 | 15835.0 | 3345.7 | 1916.0 | 875.2 | 594.0 | 360.1 | 281.2 | 252.3 | 189.2 |
| 62.5° | 21561.9 | 18560.5 | 14055.7 | 2086.8 | 1779.3 | 856.8 | 528.3 | 410.0 | 254.9 | 223.4 | 165.6 |
| 65° | 19630.1 | 16486.8 | 11719.2 | 1345.6 | 1348.3 | 951.4 | 462.6 | 402.1 | 239.2 | 197.1 | 141.9 |
| 67.5° | 16610.3 | 13798.1 | 9232.9 | 901.5 | 762.2 | 812.1 | 404.7 | 276.0 | 233.9 | 168.2 | 110.4 |
| 70° | 12124.0 | 9821.6 | 6010.7 | 601.9 | 454.7 | 649.2 | 339.0 | 197.1 | 220.8 | 139.3 | 78.8 |
| 72.5° | 8862.3 | 6599.4 | 3356.2 | 394.2 | 257.6 | 378.5 | 249.7 | 141.9 | 170.8 | 102.5 | 55.2 |
| 75° | 6378.7 | 4541.6 | 1916.0 | 252.3 | 170.8 | 207.6 | 162.9 | 97.2 | 110.4 | 81.5 | 49.9 |
| 77.5° | 3069.8 | 2213.0 | 869.9 | 139.3 | 115.6 | 105.1 | 86.7 | 60.4 | 68.3 | 73.6 | 44.7 |
| 80° | 115.6 | 86.7 | 65.7 | 68.3 | 73.6 | 47.3 | 39.4 | 31.5 | 39.4 | 49.9 | 23.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 7.9 | 10.5 | 13.1 | 15.8 | 13.1 | 15.8 | 18.4 | 2.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 |



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CATALOG NUMBER: GWS-SA6F-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 |
| 2.5° | 1067.1 | 1061.8 | 1067.1 | 1072.3 | 1077.6 | 1082.8 | 1074.9 | 1080.2 | 1085.5 | 1072.3 | 1077.6 |
| 5° | 983.0 | 980.3 | 996.1 | 1004.0 | 1014.5 | 1019.7 | 1014.5 | 1014.5 | 1011.9 | 996.1 | 996.1 |
| 7.5° | 909.4 | 912.0 | 925.1 | 943.5 | 956.7 | 964.6 | 959.3 | 956.7 | 948.8 | 925.1 | 925.1 |
| 10° | 854.2 | 854.2 | 875.2 | 891.0 | 909.4 | 917.2 | 912.0 | 904.1 | 896.2 | 872.6 | 869.9 |
| 12.5° | 809.5 | 809.5 | 825.3 | 851.5 | 872.6 | 883.1 | 880.5 | 869.9 | 856.8 | 833.1 | 830.5 |
| 15° | 767.4 | 764.8 | 788.5 | 812.1 | 841.0 | 854.2 | 848.9 | 841.0 | 817.4 | 796.3 | 791.1 |
| 17.5° | 725.4 | 722.8 | 743.8 | 775.3 | 806.9 | 825.3 | 822.6 | 804.2 | 783.2 | 756.9 | 751.7 |
| 20° | 683.3 | 678.1 | 704.4 | 735.9 | 767.4 | 785.8 | 780.6 | 764.8 | 738.5 | 712.2 | 707.0 |
| 22.5° | 641.3 | 638.7 | 657.1 | 683.3 | 712.2 | 728.0 | 725.4 | 712.2 | 686.0 | 662.3 | 662.3 |
| 25° | 594.0 | 594.0 | 607.1 | 625.5 | 646.5 | 654.4 | 657.1 | 651.8 | 636.0 | 622.9 | 622.9 |
| 27.5° | 554.6 | 546.7 | 551.9 | 557.2 | 567.7 | 580.8 | 580.8 | 586.1 | 588.7 | 583.5 | 586.1 |
| 30° | 523.0 | 509.9 | 502.0 | 491.5 | 486.2 | 491.5 | 496.7 | 515.1 | 533.5 | 544.0 | 549.3 |
| 32.5° | 486.2 | 470.5 | 449.4 | 420.5 | 402.1 | 396.9 | 412.6 | 446.8 | 481.0 | 504.6 | 517.8 |
| 35° | 449.4 | 428.4 | 389.0 | 346.9 | 323.3 | 315.4 | 333.8 | 373.2 | 423.1 | 465.2 | 483.6 |
| 37.5° | 412.6 | 383.7 | 328.5 | 278.6 | 252.3 | 247.1 | 265.4 | 307.5 | 365.3 | 423.1 | 446.8 |
| 40° | 370.6 | 336.4 | 270.7 | 218.1 | 197.1 | 191.9 | 207.6 | 249.7 | 310.1 | 375.8 | 412.6 |
| 42.5° | 328.5 | 286.5 | 218.1 | 173.5 | 152.4 | 152.4 | 173.5 | 205.0 | 260.2 | 331.2 | 375.8 |
| 45° | 286.5 | 241.8 | 178.7 | 139.3 | 126.2 | 128.8 | 141.9 | 173.5 | 218.1 | 291.7 | 333.8 |
| 47.5° | 247.1 | 207.6 | 147.2 | 115.6 | 105.1 | 107.8 | 123.5 | 149.8 | 186.6 | 252.3 | 297.0 |
| 50° | 212.9 | 176.1 | 128.8 | 97.2 | 89.4 | 94.6 | 110.4 | 134.0 | 165.6 | 223.4 | 260.2 |
| 52.5° | 191.9 | 157.7 | 118.3 | 84.1 | 78.8 | 84.1 | 99.9 | 120.9 | 149.8 | 197.1 | 233.9 |
| 55° | 181.3 | 155.1 | 118.3 | 76.2 | 68.3 | 73.6 | 89.4 | 110.4 | 134.0 | 178.7 | 210.3 |
| 57.5° | 178.7 | 160.3 | 126.2 | 68.3 | 57.8 | 63.1 | 78.8 | 99.9 | 123.5 | 162.9 | 189.2 |
| 60° | 168.2 | 152.4 | 123.5 | 55.2 | 44.7 | 52.6 | 65.7 | 86.7 | 113.0 | 152.4 | 176.1 |
| 62.5° | 147.2 | 134.0 | 107.8 | 44.7 | 34.2 | 39.4 | 55.2 | 76.2 | 102.5 | 139.3 | 165.6 |
| 65° | 120.9 | 107.8 | 84.1 | 28.9 | 21.0 | 26.3 | 42.1 | 65.7 | 89.4 | 126.2 | 149.8 |
| 67.5° | 89.4 | 76.2 | 57.8 | 18.4 | 10.5 | 18.4 | 34.2 | 55.2 | 81.5 | 113.0 | 136.7 |
| 70° | 55.2 | 44.7 | 31.5 | 10.5 | 7.9 | 15.8 | 31.5 | 52.6 | 73.6 | 105.1 | 128.8 |
| 72.5° | 31.5 | 21.0 | 13.1 | 5.3 | 7.9 | 15.8 | 31.5 | 52.6 | 71.0 | 99.9 | 120.9 |
| 75° | 23.7 | 13.1 | 5.3 | 2.6 | 5.3 | 13.1 | 28.9 | 47.3 | 68.3 | 94.6 | 115.6 |
| 77.5° | 15.8 | 7.9 | 2.6 | 0.0 | 2.6 | 10.5 | 26.3 | 44.7 | 63.1 | 89.4 | 110.4 |
| 80° | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | 23.7 | 39.4 | 57.8 | 78.8 | 97.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 18.4 | 34.2 | 49.9 | 65.7 | 78.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.5 | 26.3 | 39.4 | 49.9 | 55.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.1 | 26.3 | 31.5 | 36.8 |
| 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-SA6F-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 |
| 2.5° | 1074.9 | 1090.7 | 1090.7 | 1101.2 | 1114.4 | 1138.0 | 1151.2 | 1169.6 | 1182.7 | 1195.8 | 1201.1 |
| 5° | 993.5 | 996.1 | 998.7 | 1004.0 | 1019.7 | 1046.0 | 1069.7 | 1098.6 | 1132.8 | 1159.0 | 1174.8 |
| 7.5° | 925.1 | 925.1 | 925.1 | 933.0 | 948.8 | 967.2 | 990.8 | 1030.3 | 1069.7 | 1101.2 | 1127.5 |
| 10° | 867.3 | 875.2 | 877.8 | 891.0 | 909.4 | 933.0 | 959.3 | 993.5 | 1038.1 | 1080.2 | 1127.5 |
| 12.5° | 830.5 | 838.4 | 851.5 | 864.7 | 883.1 | 909.4 | 938.3 | 983.0 | 1074.9 | 1161.7 | 1261.5 |
| 15° | 796.3 | 806.9 | 822.6 | 841.0 | 862.1 | 891.0 | 922.5 | 1014.5 | 1230.0 | 1393.0 | 1550.6 |
| 17.5° | 759.6 | 775.3 | 796.3 | 814.7 | 841.0 | 872.6 | 912.0 | 1090.7 | 1513.9 | 1784.6 | 2052.6 |
| 20° | 712.2 | 733.3 | 756.9 | 785.8 | 817.4 | 854.2 | 912.0 | 1248.4 | 1923.9 | 2312.8 | 2667.6 |
| 22.5° | 667.6 | 688.6 | 717.5 | 754.3 | 791.1 | 827.9 | 925.1 | 1487.6 | 2452.1 | 2943.6 | 3393.0 |
| 25° | 630.8 | 657.1 | 686.0 | 717.5 | 759.6 | 801.6 | 956.7 | 1824.0 | 3088.2 | 3721.6 | 4039.6 |
| 27.5° | 596.6 | 628.1 | 657.1 | 683.3 | 720.1 | 767.4 | 1027.6 | 2273.4 | 3839.8 | 4483.7 | 4733.4 |
| 30° | 562.4 | 599.2 | 628.1 | 654.4 | 691.2 | 741.2 | 1135.4 | 2846.4 | 4675.6 | 5301.1 | 5327.4 |
| 32.5° | 533.5 | 567.7 | 601.9 | 628.1 | 662.3 | 720.1 | 1285.2 | 3516.6 | 5532.4 | 6136.9 | 5889.8 |
| 35° | 502.0 | 541.4 | 573.0 | 601.9 | 638.7 | 701.7 | 1458.7 | 4239.3 | 6397.1 | 6904.3 | 6449.6 |
| 37.5° | 470.5 | 515.1 | 554.6 | 575.6 | 612.4 | 683.3 | 1584.8 | 4993.6 | 7280.2 | 7653.4 | 6941.1 |
| 40° | 441.5 | 491.5 | 536.2 | 557.2 | 575.6 | 659.7 | 1603.2 | 5766.3 | 8176.4 | 8391.9 | 7403.7 |
| 42.5° | 410.0 | 465.2 | 504.6 | 533.5 | 549.3 | 643.9 | 1492.8 | 6418.1 | 8928.0 | 9127.8 | 8008.2 |
| 45° | 375.8 | 441.5 | 473.1 | 494.1 | 525.6 | 654.4 | 1350.9 | 6922.7 | 9787.5 | 10131.8 | 9004.3 |
| 47.5° | 341.7 | 415.3 | 441.5 | 457.3 | 499.4 | 717.5 | 1298.3 | 7259.1 | 11204.1 | 11919.0 | 10683.7 |
| 50° | 310.1 | 391.6 | 420.5 | 417.9 | 494.1 | 799.0 | 1356.2 | 7514.1 | 13332.9 | 14174.0 | 12986.0 |
| 52.5° | 276.0 | 365.3 | 399.5 | 389.0 | 533.5 | 862.1 | 1471.8 | 7716.4 | 14970.3 | 16817.9 | 16079.4 |
| 55° | 247.1 | 336.4 | 368.0 | 365.3 | 607.1 | 909.4 | 1561.2 | 6649.4 | 15648.4 | 19275.3 | 19564.4 |
| 57.5° | 226.0 | 304.9 | 331.2 | 375.8 | 654.4 | 909.4 | 1805.6 | 4720.3 | 15661.5 | 21083.5 | 24190.1 |
| 60° | 207.6 | 276.0 | 294.4 | 412.6 | 636.0 | 862.1 | 1787.2 | 2891.0 | 14434.2 | 20960.0 | 26650.1 |
| 62.5° | 191.9 | 249.7 | 273.3 | 423.1 | 562.4 | 854.2 | 1613.7 | 1792.4 | 12310.6 | 19364.7 | 24865.5 |
| 65° | 178.7 | 228.7 | 262.8 | 389.0 | 509.9 | 914.6 | 1088.1 | 1287.8 | 9984.6 | 17546.0 | 22818.2 |
| 67.5° | 165.6 | 210.3 | 278.6 | 318.0 | 462.6 | 817.4 | 785.8 | 914.6 | 7837.3 | 15551.1 | 20939.0 |
| 70° | 155.1 | 199.7 | 294.4 | 260.2 | 404.7 | 638.7 | 557.2 | 693.8 | 6000.2 | 12975.5 | 18292.4 |
| 72.5° | 147.2 | 186.6 | 247.1 | 205.0 | 328.5 | 494.1 | 389.0 | 504.6 | 3921.3 | 10129.1 | 14912.5 |
| 75° | 139.3 | 170.8 | 181.3 | 165.6 | 244.4 | 323.3 | 294.4 | 339.0 | 2336.5 | 7403.7 | 11314.5 |
| 77.5° | 136.7 | 160.3 | 147.2 | 134.0 | 165.6 | 191.9 | 223.4 | 228.7 | 1140.6 | 3703.2 | 5929.3 |
| 80° | 120.9 | 144.6 | 126.2 | 110.4 | 113.0 | 126.2 | 165.6 | 152.4 | 260.2 | 940.9 | 1582.2 |
| 82.5° | 94.6 | 113.0 | 105.1 | 92.0 | 92.0 | 92.0 | 110.4 | 102.5 | 84.1 | 423.1 | 714.9 |
| 85° | 65.7 | 78.8 | 78.8 | 73.6 | 71.0 | 71.0 | 68.3 | 65.7 | 23.7 | 26.3 | 39.4 |
| 87.5° | 44.7 | 55.2 | 57.8 | 55.2 | 47.3 | 42.1 | 36.8 | 31.5 | 10.5 | 0.0 | 5.3 |
| 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° | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 | 1151.2 |
| 2.5° | 1219.5 | 1227.4 | 1227.4 | 1216.9 | 1209.0 | 1188.0 | 1166.9 | 1145.9 | 1140.6 | 1138.0 |
| 5° | 1219.5 | 1251.0 | 1266.8 | 1264.2 | 1245.8 | 1211.6 | 1166.9 | 1119.6 | 1106.5 | 1101.2 |
| 7.5° | 1201.1 | 1261.5 | 1308.9 | 1316.7 | 1282.6 | 1222.1 | 1140.6 | 1069.7 | 1051.3 | 1043.4 |
| 10° | 1243.1 | 1361.4 | 1456.0 | 1469.2 | 1429.7 | 1311.5 | 1180.1 | 1059.2 | 1030.3 | 1011.9 |
| 12.5° | 1469.2 | 1663.7 | 1779.3 | 1834.5 | 1758.3 | 1608.5 | 1390.3 | 1174.8 | 1109.1 | 1080.2 |
| 15° | 1926.5 | 2202.4 | 2423.2 | 2423.2 | 2352.3 | 2086.8 | 1810.8 | 1461.3 | 1371.9 | 1293.1 |
| 17.5° | 2512.6 | 2859.5 | 3054.0 | 3033.0 | 2925.2 | 2738.6 | 2407.4 | 1905.5 | 1724.1 | 1642.6 |
| 20° | 3180.1 | 3387.8 | 3432.4 | 3419.3 | 3372.0 | 3264.2 | 3035.6 | 2496.8 | 2252.4 | 2126.2 |
| 22.5° | 3758.3 | 3703.2 | 3637.4 | 3584.9 | 3571.7 | 3603.3 | 3571.7 | 3156.5 | 2964.6 | 2741.2 |
| 25° | 4150.0 | 3837.2 | 3640.1 | 3545.5 | 3590.1 | 3771.5 | 3968.6 | 3813.5 | 3661.1 | 3429.8 |
| 27.5° | 4362.8 | 3821.4 | 3537.6 | 3440.3 | 3516.6 | 3774.1 | 4202.5 | 4465.3 | 4307.6 | 4197.3 |
| 30° | 4478.5 | 3808.3 | 3471.9 | 3377.3 | 3492.9 | 3816.2 | 4365.5 | 5075.1 | 5080.3 | 4904.2 |
| 32.5° | 4644.1 | 3892.4 | 3485.0 | 3398.3 | 3553.3 | 3942.3 | 4570.5 | 5695.3 | 5847.8 | 5753.2 |
| 35° | 4830.7 | 4021.2 | 3545.5 | 3466.6 | 3658.5 | 4110.5 | 4799.1 | 6320.9 | 6638.9 | 6607.3 |
| 37.5° | 5006.7 | 4165.7 | 3687.4 | 3611.2 | 3818.8 | 4255.1 | 5019.9 | 6935.9 | 7377.4 | 7487.8 |
| 40° | 5190.7 | 4368.1 | 4123.7 | 4197.3 | 4312.9 | 4483.7 | 5217.0 | 7469.4 | 8189.5 | 8355.1 |
| 42.5° | 5624.4 | 5069.8 | 5443.0 | 5582.3 | 5598.1 | 5245.9 | 5648.0 | 8152.7 | 8988.5 | 9185.6 |
| 45° | 6591.6 | 6318.2 | 7387.9 | 7585.0 | 7482.5 | 6415.5 | 6686.2 | 9138.3 | 10105.5 | 10205.4 |
| 47.5° | 7813.7 | 7939.8 | 10050.3 | 10731.0 | 10116.0 | 7795.3 | 7945.1 | 11212.0 | 12150.2 | 12113.4 |
| 50° | 9238.2 | 9834.8 | 13072.7 | 14678.6 | 13206.8 | 9587.7 | 9395.9 | 13761.3 | 14899.3 | 14786.3 |
| 52.5° | 10922.9 | 12037.2 | 16704.9 | 18986.2 | 17593.3 | 11603.6 | 11524.7 | 17138.6 | 17832.4 | 17472.4 |
| 55° | 13043.8 | 14163.4 | 20883.8 | 24071.8 | 22090.1 | 14063.6 | 14334.3 | 21054.6 | 21188.7 | 20045.4 |
| 57.5° | 16208.2 | 16936.2 | 25809.1 | 29903.8 | 26784.1 | 17406.7 | 19369.9 | 26266.4 | 24663.2 | 22497.5 |
| 60° | 21953.5 | 20502.7 | 30568.8 | 35869.9 | 31777.7 | 22108.5 | 26011.4 | 29354.5 | 25819.6 | 22833.9 |
| 62.5° | 23953.5 | 23530.4 | 33549.2 | 38393.0 | 35136.6 | 25969.4 | 27738.2 | 27604.1 | 24321.5 | 21561.9 |
| 65° | 20923.2 | 22776.1 | 33015.6 | 37060.5 | 34705.6 | 25333.4 | 24891.8 | 25672.4 | 22634.2 | 19630.1 |
| 67.5° | 19327.9 | 21004.7 | 30994.5 | 33383.6 | 32316.5 | 23175.6 | 22187.4 | 21974.5 | 19002.0 | 16610.3 |
| 70° | 17719.4 | 19380.5 | 28064.1 | 28361.1 | 27864.3 | 19659.0 | 18360.7 | 16933.6 | 14202.9 | 12124.0 |
| 72.5° | 15785.1 | 16699.7 | 23998.2 | 22589.5 | 22027.1 | 15440.8 | 15167.4 | 12752.1 | 10646.9 | 8862.3 |
| 75° | 13766.6 | 13501.1 | 18710.3 | 15503.8 | 15924.4 | 12013.6 | 12809.9 | 9364.3 | 7800.5 | 6378.7 |
| 77.5° | 10013.5 | 9816.4 | 12531.3 | 9416.9 | 10428.8 | 7868.9 | 7069.9 | 3737.3 | 3558.6 | 3069.8 |
| 80° | 5587.6 | 6736.1 | 6767.7 | 5277.5 | 6583.7 | 5130.3 | 1768.8 | 123.5 | 78.8 | 115.6 |
| 82.5° | 2596.7 | 2896.3 | 3669.0 | 2446.9 | 3755.7 | 2541.5 | 365.3 | 0.0 | 0.0 | 0.0 |
| 85° | 841.0 | 1230.0 | 1030.3 | 360.1 | 909.4 | 859.4 | 60.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 49.9 | 102.5 | 26.3 | 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)