

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: P631611

Luminaire Tested: GWS-SA2B-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631611
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-SA2B-722-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4813.2 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

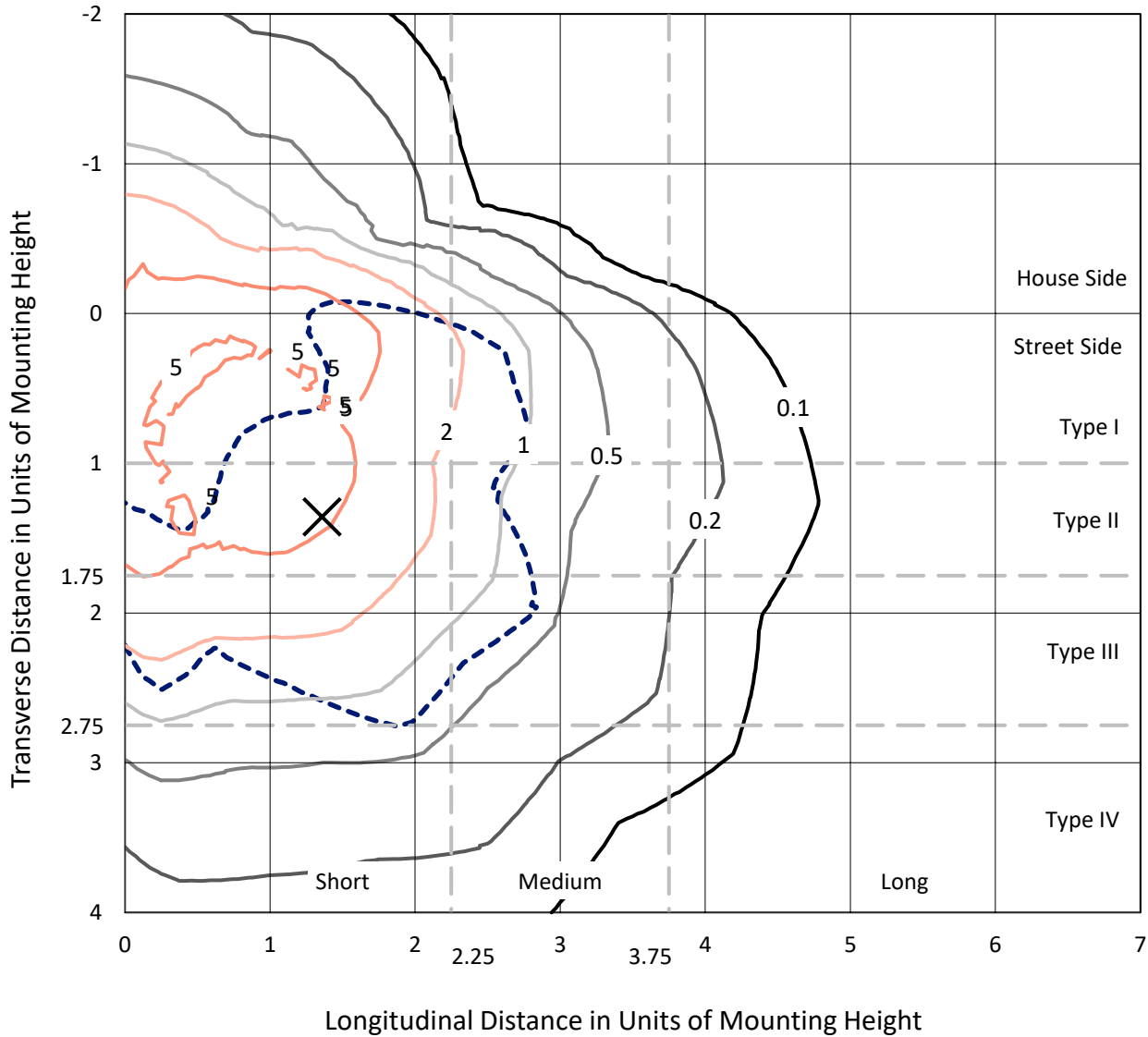
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631611
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Iso-Footcandle Lines of Horizontal Illumination

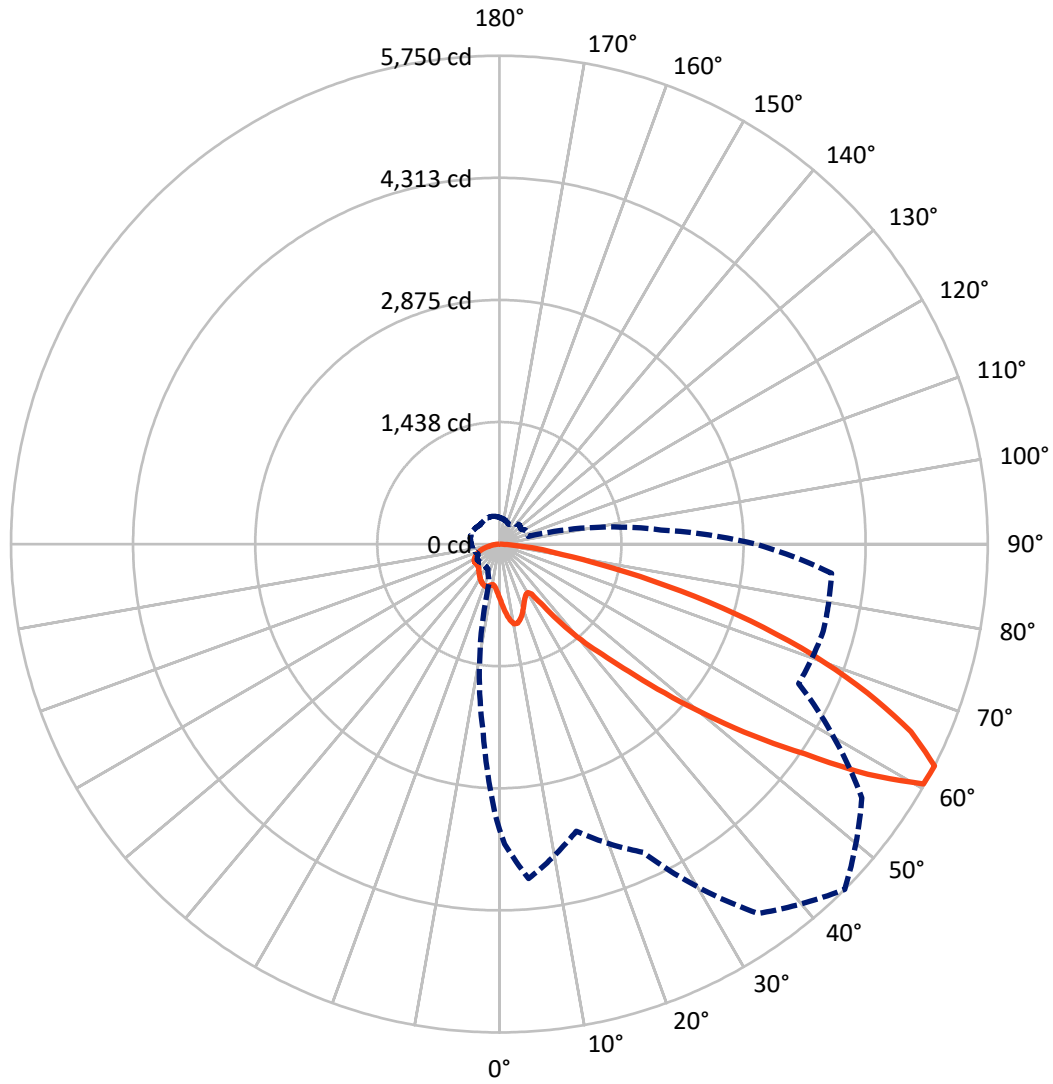
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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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CATALOG NUMBER: GWS-SA2B-722-U-SLR-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1148.5 | 0.0 | 1148.5 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 3664.7 | 0.0 | 3664.7 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 4813.2 | 0.0 | 4813.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.4 | 1.3 |
| 10°-20° | 195.6 | 4.1 |
| 20°-30° | 303.8 | 6.3 |
| 30°-40° | 412.4 | 8.6 |
| 40°-50° | 653.7 | 13.6 |
| 50°-60° | 1153.1 | 24.0 |
| 60°-70° | 1283.0 | 26.7 |
| 70°-80° | 650.7 | 13.5 |
| 80°-90° | 98.5 | 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° | 4813.2 | 100.0 |
| 0°-180° | 4813.2 | 100.0 |

Coefficient of Utilization



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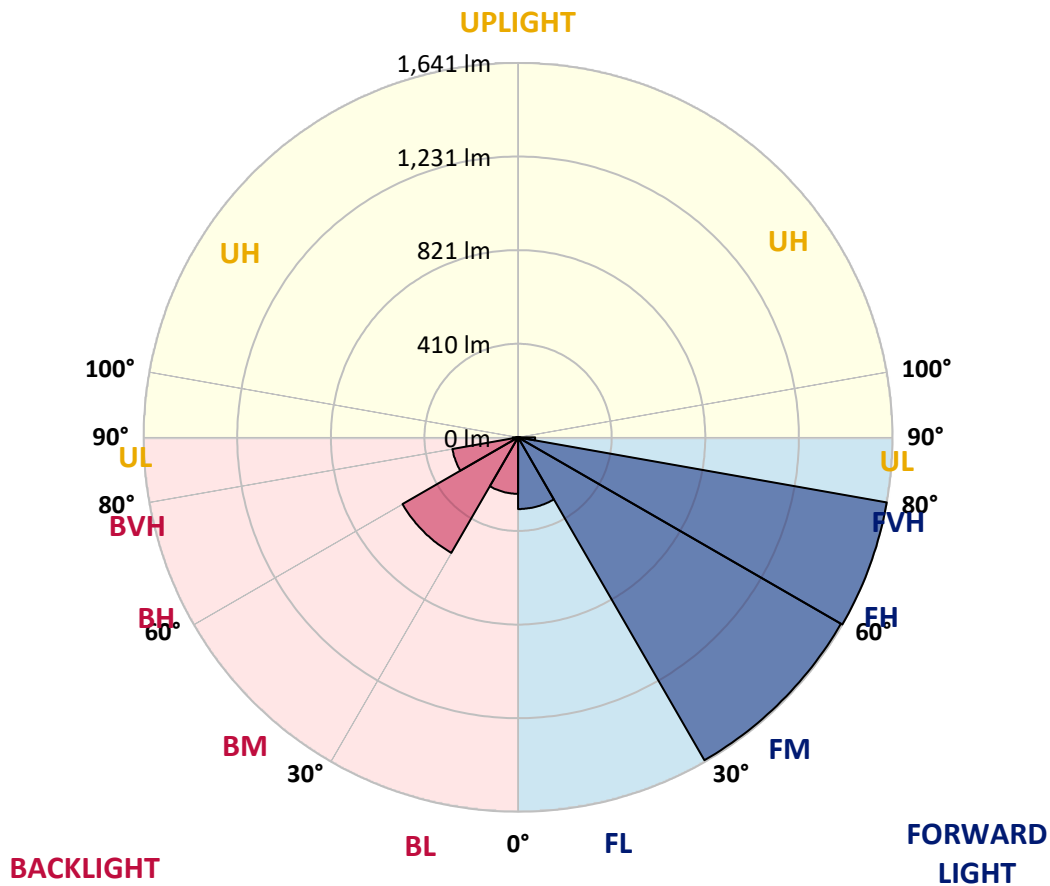
CATALOG NUMBER: GWS-SA2B-722-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 314.3 | 6.5 | | | |
| FM (30°-60°) | 1634.3 | 34.0 | | | |
| FH (60°-80°) | 1641.3 | 34.1 | | | G1/1800 |
| FVH (80°-90°) | 74.8 | 1.6 | | | G1/100 |
| BL (0°-30°) | 247.5 | 5.1 | B1/500 | | |
| BM (30°-60°) | 584.9 | 12.2 | B1/1000 | | |
| BH (60°-80°) | 292.4 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P631611
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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 |
| 2.5° | 686.5 | 686.2 | 693.1 | 703.7 | 713.5 | 717.9 | 725.2 | 724.4 | 718.6 | 711.0 | 708.4 |
| 5° | 740.5 | 741.9 | 754.0 | 777.3 | 803.2 | 814.1 | 818.8 | 817.0 | 806.4 | 793.0 | 769.3 |
| 7.5° | 789.3 | 791.9 | 810.4 | 845.4 | 877.5 | 892.1 | 903.7 | 901.5 | 886.2 | 861.1 | 826.1 |
| 10° | 825.0 | 827.9 | 850.2 | 891.3 | 927.1 | 939.8 | 954.8 | 955.5 | 942.0 | 908.1 | 872.4 |
| 12.5° | 860.7 | 863.7 | 884.4 | 922.0 | 945.3 | 945.6 | 954.4 | 959.1 | 959.9 | 944.2 | 908.5 |
| 15° | 897.9 | 900.5 | 919.4 | 940.5 | 939.4 | 919.0 | 919.0 | 928.2 | 948.2 | 959.5 | 934.7 |
| 17.5° | 929.6 | 932.9 | 947.5 | 940.5 | 908.1 | 871.3 | 866.9 | 878.6 | 913.6 | 956.9 | 954.4 |
| 20° | 955.8 | 958.4 | 966.4 | 920.5 | 861.5 | 813.4 | 805.0 | 818.5 | 865.8 | 941.3 | 969.3 |
| 22.5° | 981.0 | 982.4 | 978.1 | 894.3 | 811.2 | 756.1 | 745.9 | 760.2 | 811.2 | 913.6 | 982.1 |
| 25° | 1010.9 | 1009.4 | 988.6 | 866.9 | 765.3 | 711.0 | 700.4 | 716.4 | 769.6 | 876.8 | 995.9 |
| 27.5° | 1045.5 | 1040.0 | 997.8 | 837.4 | 729.9 | 677.4 | 670.1 | 687.3 | 736.8 | 842.9 | 1006.9 |
| 30° | 1075.0 | 1064.4 | 999.2 | 811.2 | 711.7 | 663.2 | 658.9 | 674.9 | 720.8 | 819.9 | 1020.7 |
| 32.5° | 1107.8 | 1093.2 | 1007.6 | 804.3 | 721.9 | 697.5 | 703.3 | 704.4 | 725.2 | 813.4 | 1041.5 |
| 35° | 1154.8 | 1135.9 | 1030.6 | 824.3 | 826.8 | 868.0 | 889.2 | 860.7 | 791.1 | 827.9 | 1080.8 |
| 37.5° | 1225.9 | 1201.8 | 1077.2 | 911.0 | 1043.7 | 1135.9 | 1186.9 | 1122.0 | 991.6 | 883.0 | 1140.2 |
| 40° | 1312.2 | 1281.6 | 1137.0 | 1071.4 | 1246.3 | 1393.9 | 1484.6 | 1389.5 | 1197.8 | 1020.3 | 1223.7 |
| 42.5° | 1432.9 | 1400.8 | 1252.8 | 1228.8 | 1434.0 | 1653.7 | 1772.1 | 1630.4 | 1379.7 | 1197.8 | 1357.4 |
| 45° | 1643.1 | 1612.1 | 1465.3 | 1386.6 | 1653.7 | 1973.6 | 2139.8 | 1942.7 | 1564.4 | 1376.0 | 1607.4 |
| 47.5° | 2031.6 | 1995.1 | 1780.9 | 1561.5 | 1904.4 | 2389.1 | 2621.6 | 2334.4 | 1756.5 | 1580.1 | 2027.2 |
| 50° | 2498.0 | 2463.0 | 2177.0 | 1768.5 | 2181.4 | 2833.3 | 3156.5 | 2794.7 | 1977.7 | 1828.2 | 2529.0 |
| 52.5° | 3059.2 | 3052.7 | 2742.2 | 2030.1 | 2469.6 | 3307.0 | 3750.1 | 3304.5 | 2220.0 | 2162.4 | 3097.5 |
| 55° | 3565.0 | 3629.2 | 3460.1 | 2429.2 | 2842.0 | 3902.1 | 4360.5 | 3860.6 | 2548.7 | 2714.9 | 3763.3 |
| 57.5° | 3837.6 | 4010.0 | 4269.8 | 3243.2 | 3383.5 | 4613.4 | 5113.8 | 4539.4 | 3113.5 | 3634.6 | 4380.6 |
| 60° | 3657.6 | 3852.9 | 4323.7 | 3856.2 | 3920.7 | 5183.4 | 5735.4 | 5110.1 | 3668.1 | 4273.1 | 4345.6 |
| 62.5° | 3358.0 | 3533.3 | 3952.0 | 3498.3 | 4003.8 | 5308.7 | 5750.0 | 5209.6 | 3888.6 | 3949.1 | 3925.4 |
| 65° | 3002.7 | 3179.5 | 3623.0 | 3053.8 | 3739.6 | 5011.0 | 5325.8 | 4917.0 | 3492.5 | 3567.9 | 3576.7 |
| 67.5° | 2530.8 | 2694.1 | 3145.6 | 2715.2 | 3408.7 | 4574.1 | 4674.6 | 4500.1 | 3216.3 | 3336.5 | 3210.8 |
| 70° | 1890.9 | 2038.1 | 2436.8 | 2206.5 | 2873.4 | 4004.9 | 3923.6 | 3949.5 | 2906.2 | 3025.7 | 2682.1 |
| 72.5° | 1292.2 | 1403.0 | 1744.8 | 1733.9 | 2200.3 | 3206.1 | 3092.7 | 3338.0 | 2427.3 | 2585.9 | 2044.7 |
| 75° | 903.7 | 990.1 | 1261.2 | 1369.8 | 1663.2 | 2376.3 | 2202.5 | 2498.4 | 1895.7 | 2122.0 | 1491.9 |
| 77.5° | 554.6 | 611.8 | 796.6 | 1014.9 | 1069.9 | 1626.4 | 1368.0 | 1880.0 | 1331.2 | 1547.6 | 995.2 |
| 80° | 277.3 | 305.0 | 387.0 | 638.1 | 709.5 | 958.4 | 755.4 | 1091.4 | 900.8 | 958.4 | 550.6 |
| 82.5° | 83.8 | 92.6 | 113.3 | 242.3 | 367.7 | 551.7 | 446.4 | 634.1 | 492.0 | 449.3 | 216.8 |
| 85° | 22.2 | 25.1 | 31.3 | 71.8 | 129.0 | 197.9 | 150.9 | 307.2 | 235.8 | 165.8 | 81.6 |
| 87.5° | 1.8 | 1.8 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 | 21.9 | 44.1 | 25.1 | 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-SA2B-722-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 |
| 2.5° | 695.7 | 694.2 | 679.3 | 668.3 | 655.6 | 643.2 | 630.4 | 619.1 | 606.4 | 593.6 | 590.0 |
| 5° | 751.8 | 741.6 | 709.9 | 683.3 | 657.0 | 634.1 | 614.0 | 593.3 | 576.5 | 560.1 | 553.9 |
| 7.5° | 801.3 | 783.5 | 737.6 | 697.1 | 660.7 | 632.3 | 602.7 | 572.5 | 548.8 | 525.5 | 519.6 |
| 10° | 846.2 | 822.5 | 764.5 | 713.5 | 673.1 | 640.6 | 606.0 | 565.6 | 531.3 | 502.9 | 495.2 |
| 12.5° | 879.3 | 853.4 | 787.9 | 729.2 | 683.3 | 646.8 | 612.6 | 576.9 | 540.8 | 504.0 | 495.6 |
| 15° | 905.6 | 878.6 | 807.2 | 741.2 | 683.6 | 636.6 | 603.5 | 591.1 | 579.8 | 543.7 | 528.4 |
| 17.5° | 926.7 | 898.3 | 823.9 | 748.5 | 673.8 | 605.6 | 576.9 | 595.1 | 623.9 | 601.3 | 572.5 |
| 20° | 946.0 | 917.2 | 836.7 | 753.6 | 651.9 | 563.0 | 547.0 | 585.6 | 629.0 | 628.2 | 602.4 |
| 22.5° | 967.1 | 939.1 | 855.3 | 756.5 | 621.3 | 519.6 | 529.1 | 571.8 | 607.1 | 617.7 | 601.6 |
| 25° | 994.1 | 969.3 | 881.1 | 763.1 | 586.7 | 489.8 | 516.0 | 553.9 | 583.4 | 586.0 | 576.5 |
| 27.5° | 1025.4 | 1006.9 | 919.8 | 778.4 | 553.2 | 474.5 | 500.7 | 528.8 | 555.7 | 556.8 | 545.5 |
| 30° | 1059.7 | 1047.3 | 955.5 | 791.1 | 528.0 | 469.7 | 481.0 | 503.6 | 520.7 | 523.7 | 513.8 |
| 32.5° | 1103.4 | 1092.5 | 987.2 | 782.8 | 513.1 | 468.6 | 462.8 | 474.5 | 488.7 | 488.7 | 481.0 |
| 35° | 1163.6 | 1148.3 | 1020.7 | 750.7 | 494.9 | 464.3 | 443.5 | 446.8 | 453.0 | 454.1 | 449.7 |
| 37.5° | 1248.8 | 1223.7 | 1054.6 | 687.3 | 465.0 | 448.6 | 421.3 | 417.2 | 419.4 | 422.4 | 421.3 |
| 40° | 1354.5 | 1313.3 | 1104.2 | 611.1 | 429.3 | 418.3 | 398.3 | 390.6 | 388.8 | 394.7 | 396.8 |
| 42.5° | 1487.5 | 1424.5 | 1157.4 | 540.1 | 396.8 | 383.7 | 371.3 | 364.8 | 361.9 | 371.7 | 377.5 |
| 45° | 1700.0 | 1596.1 | 1208.4 | 469.7 | 378.6 | 354.2 | 345.8 | 341.1 | 342.5 | 354.2 | 361.5 |
| 47.5° | 2066.9 | 1858.1 | 1256.8 | 425.3 | 377.2 | 333.1 | 322.9 | 324.0 | 328.0 | 340.4 | 349.1 |
| 50° | 2531.2 | 2209.1 | 1289.3 | 406.7 | 381.5 | 320.3 | 306.8 | 312.7 | 318.9 | 330.9 | 341.1 |
| 52.5° | 3003.8 | 2535.9 | 1250.7 | 396.5 | 381.2 | 320.7 | 291.9 | 309.4 | 312.3 | 324.3 | 335.3 |
| 55° | 3328.9 | 2572.4 | 1080.5 | 380.8 | 375.3 | 335.3 | 280.2 | 307.9 | 309.7 | 320.7 | 330.5 |
| 57.5° | 3452.8 | 2447.7 | 823.9 | 385.2 | 357.9 | 346.6 | 275.1 | 297.7 | 310.8 | 320.3 | 330.5 |
| 60° | 3303.0 | 2212.7 | 500.7 | 396.5 | 329.8 | 345.8 | 278.4 | 279.1 | 301.7 | 317.8 | 328.0 |
| 62.5° | 3020.6 | 1911.0 | 351.7 | 364.4 | 309.4 | 326.5 | 286.1 | 257.3 | 285.7 | 305.0 | 314.1 |
| 65° | 2697.0 | 1556.0 | 268.2 | 313.8 | 299.5 | 296.6 | 288.6 | 238.0 | 263.8 | 282.8 | 290.8 |
| 67.5° | 2359.9 | 1209.5 | 217.9 | 234.0 | 270.8 | 268.2 | 263.8 | 220.8 | 238.0 | 251.4 | 260.6 |
| 70° | 1935.4 | 846.2 | 184.0 | 175.6 | 232.1 | 240.5 | 230.7 | 199.3 | 204.8 | 218.6 | 225.9 |
| 72.5° | 1415.7 | 527.3 | 151.2 | 145.0 | 186.6 | 210.3 | 205.2 | 175.6 | 178.2 | 191.3 | 197.1 |
| 75° | 1018.2 | 301.7 | 121.3 | 119.5 | 142.5 | 180.0 | 169.8 | 151.2 | 154.1 | 164.0 | 168.0 |
| 77.5° | 647.2 | 168.0 | 93.7 | 96.2 | 102.0 | 134.5 | 145.0 | 129.4 | 129.4 | 135.2 | 138.5 |
| 80° | 346.6 | 96.2 | 68.5 | 69.6 | 71.4 | 102.8 | 114.4 | 100.2 | 100.2 | 96.2 | 100.2 |
| 82.5° | 141.4 | 55.4 | 47.0 | 43.7 | 47.7 | 70.3 | 80.2 | 63.8 | 66.7 | 60.1 | 61.6 |
| 85° | 46.6 | 27.7 | 23.3 | 23.0 | 22.6 | 31.0 | 38.6 | 31.7 | 37.9 | 24.1 | 25.1 |
| 87.5° | 6.2 | 5.1 | 2.9 | 2.2 | 2.6 | 1.1 | 2.2 | 2.6 | 2.6 | 1.8 | 1.8 |
| 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-SA2B-722-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 | 638.8 |
| 2.5° | 587.4 | 584.5 | 573.9 | 576.5 | 574.7 | 571.8 | 574.7 | 569.2 | 573.6 | 575.0 | 584.1 |
| 5° | 549.2 | 542.2 | 532.0 | 526.9 | 525.8 | 522.9 | 523.3 | 520.7 | 521.5 | 527.7 | 537.9 |
| 7.5° | 514.9 | 508.4 | 500.3 | 496.7 | 493.4 | 490.1 | 489.8 | 489.4 | 492.3 | 497.8 | 507.6 |
| 10° | 490.1 | 486.5 | 483.2 | 484.7 | 483.2 | 481.7 | 479.2 | 479.2 | 483.9 | 493.8 | 505.8 |
| 12.5° | 490.1 | 489.4 | 490.1 | 494.5 | 494.1 | 494.5 | 491.2 | 493.0 | 506.2 | 522.9 | 540.1 |
| 15° | 516.4 | 510.5 | 510.5 | 512.7 | 512.0 | 512.0 | 512.0 | 519.6 | 549.5 | 575.4 | 593.6 |
| 17.5° | 548.4 | 531.3 | 524.0 | 522.9 | 522.6 | 522.6 | 524.0 | 540.4 | 587.1 | 614.4 | 625.0 |
| 20° | 570.7 | 538.2 | 526.2 | 521.5 | 521.8 | 522.6 | 526.9 | 549.5 | 600.9 | 614.8 | 612.2 |
| 22.5° | 574.7 | 532.8 | 518.2 | 511.3 | 512.4 | 513.1 | 519.6 | 543.7 | 582.0 | 584.1 | 579.0 |
| 25° | 556.1 | 517.5 | 501.8 | 496.3 | 497.8 | 497.4 | 503.2 | 520.7 | 548.1 | 547.3 | 544.4 |
| 27.5° | 528.4 | 493.0 | 481.4 | 477.7 | 480.3 | 477.4 | 479.2 | 492.7 | 513.8 | 513.1 | 512.0 |
| 30° | 500.0 | 469.4 | 458.8 | 457.0 | 460.2 | 455.9 | 456.2 | 467.5 | 482.1 | 481.4 | 481.0 |
| 32.5° | 471.5 | 445.7 | 436.2 | 436.2 | 439.5 | 434.7 | 435.5 | 445.3 | 455.1 | 452.2 | 452.2 |
| 35° | 444.6 | 426.4 | 418.7 | 417.2 | 419.8 | 416.5 | 418.0 | 427.1 | 430.7 | 426.7 | 424.2 |
| 37.5° | 420.9 | 412.9 | 405.2 | 400.1 | 400.5 | 400.9 | 405.2 | 412.1 | 410.0 | 404.1 | 400.9 |
| 40° | 399.0 | 399.0 | 391.7 | 382.3 | 381.2 | 383.7 | 391.0 | 398.7 | 392.5 | 385.9 | 381.9 |
| 42.5° | 383.4 | 386.6 | 379.7 | 370.2 | 368.1 | 372.4 | 380.4 | 385.9 | 378.6 | 371.3 | 365.9 |
| 45° | 368.8 | 376.8 | 372.1 | 361.5 | 358.6 | 363.7 | 373.9 | 376.1 | 366.2 | 359.3 | 355.3 |
| 47.5° | 358.6 | 369.5 | 366.2 | 356.0 | 351.7 | 358.9 | 369.5 | 369.1 | 356.8 | 349.5 | 346.2 |
| 50° | 351.3 | 365.1 | 364.8 | 356.0 | 351.3 | 360.4 | 369.9 | 365.1 | 351.7 | 344.0 | 340.7 |
| 52.5° | 345.5 | 364.8 | 367.3 | 362.2 | 358.9 | 367.0 | 372.8 | 363.7 | 348.0 | 340.0 | 337.4 |
| 55° | 342.9 | 366.2 | 368.1 | 363.3 | 360.4 | 367.7 | 372.8 | 366.6 | 348.0 | 340.7 | 338.5 |
| 57.5° | 343.6 | 364.4 | 364.8 | 358.2 | 353.1 | 362.2 | 370.2 | 368.4 | 352.0 | 343.6 | 341.1 |
| 60° | 339.3 | 354.6 | 355.3 | 345.1 | 339.3 | 350.2 | 364.4 | 363.3 | 350.2 | 341.5 | 336.7 |
| 62.5° | 324.7 | 338.2 | 338.5 | 329.1 | 320.7 | 336.4 | 352.0 | 351.7 | 339.6 | 330.9 | 325.4 |
| 65° | 300.3 | 314.5 | 318.1 | 309.0 | 302.5 | 319.2 | 335.6 | 334.9 | 322.9 | 314.8 | 309.4 |
| 67.5° | 270.0 | 285.3 | 292.3 | 286.1 | 283.5 | 298.8 | 314.1 | 313.8 | 303.9 | 296.3 | 291.5 |
| 70° | 233.2 | 246.0 | 257.6 | 257.6 | 255.8 | 273.3 | 289.7 | 288.2 | 279.1 | 273.3 | 269.7 |
| 72.5° | 202.6 | 212.5 | 216.1 | 219.7 | 225.2 | 243.4 | 257.3 | 258.4 | 251.8 | 248.9 | 251.8 |
| 75° | 172.4 | 178.6 | 181.8 | 178.9 | 188.4 | 207.3 | 225.6 | 227.4 | 220.5 | 215.7 | 216.8 |
| 77.5° | 141.8 | 148.7 | 152.0 | 145.4 | 144.7 | 168.7 | 191.0 | 195.0 | 189.1 | 181.8 | 184.0 |
| 80° | 102.4 | 111.5 | 117.0 | 112.6 | 111.1 | 121.7 | 152.3 | 156.7 | 151.2 | 145.4 | 148.7 |
| 82.5° | 62.7 | 67.8 | 69.2 | 73.6 | 82.7 | 87.1 | 98.0 | 112.6 | 108.6 | 103.5 | 112.6 |
| 85° | 24.8 | 29.5 | 32.8 | 37.2 | 43.4 | 51.4 | 60.5 | 72.2 | 65.6 | 63.4 | 74.7 |
| 87.5° | 1.5 | 0.4 | 0.0 | 0.7 | 6.2 | 12.0 | 25.9 | 35.7 | 29.9 | 32.1 | 38.6 |
| 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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| 2.5° | 591.4 | 600.9 | 613.7 | 624.2 | 637.7 | 650.5 | 663.6 | 676.7 | 683.6 | 686.5 |
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| 22.5° | 545.9 | 515.6 | 477.7 | 477.0 | 575.0 | 734.6 | 861.5 | 952.9 | 977.7 | 981.0 |
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| 27.5° | 494.5 | 474.1 | 452.2 | 442.4 | 520.4 | 756.9 | 934.7 | 1036.0 | 1047.3 | 1045.5 |
| 30° | 469.4 | 454.1 | 444.2 | 441.3 | 504.3 | 767.8 | 976.3 | 1080.5 | 1081.2 | 1075.0 |
| 32.5° | 442.8 | 436.9 | 436.9 | 446.4 | 491.2 | 765.3 | 1010.1 | 1123.8 | 1116.9 | 1107.8 |
| 35° | 419.1 | 420.2 | 427.8 | 450.0 | 469.4 | 739.8 | 1042.6 | 1178.1 | 1167.9 | 1154.8 |
| 37.5° | 396.5 | 404.9 | 415.8 | 437.3 | 440.6 | 701.9 | 1080.5 | 1255.0 | 1242.3 | 1225.9 |
| 40° | 377.2 | 389.9 | 402.7 | 413.2 | 410.0 | 647.9 | 1133.3 | 1345.4 | 1331.2 | 1312.2 |
| 42.5° | 361.9 | 374.2 | 388.5 | 389.6 | 390.6 | 591.8 | 1189.4 | 1456.2 | 1453.6 | 1432.9 |
| 45° | 352.0 | 360.0 | 373.5 | 371.7 | 389.6 | 529.9 | 1241.2 | 1625.3 | 1658.8 | 1643.1 |
| 47.5° | 345.5 | 351.7 | 353.1 | 360.8 | 399.0 | 474.5 | 1307.9 | 1956.2 | 2049.4 | 2031.6 |
| 50° | 341.8 | 348.0 | 331.6 | 361.5 | 400.5 | 438.7 | 1400.1 | 2371.6 | 2521.7 | 2498.0 |
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| 55° | 342.2 | 324.0 | 306.8 | 371.3 | 376.4 | 408.9 | 1287.1 | 2820.5 | 3456.4 | 3565.0 |
| 57.5° | 335.6 | 306.5 | 311.6 | 362.6 | 346.2 | 430.4 | 951.5 | 2768.4 | 3635.7 | 3837.6 |
| 60° | 323.2 | 289.7 | 320.3 | 338.9 | 315.2 | 393.6 | 655.2 | 2535.9 | 3449.9 | 3657.6 |
| 62.5° | 305.4 | 278.0 | 319.2 | 308.3 | 303.9 | 322.1 | 450.4 | 2210.5 | 3155.1 | 3358.0 |
| 65° | 285.3 | 268.6 | 302.1 | 278.8 | 281.3 | 247.8 | 318.5 | 1843.2 | 2803.0 | 3002.7 |
| 67.5° | 263.8 | 262.7 | 277.0 | 248.2 | 237.6 | 196.4 | 232.1 | 1477.3 | 2350.8 | 2530.8 |
| 70° | 239.4 | 247.4 | 251.8 | 220.5 | 192.8 | 154.1 | 172.4 | 1033.1 | 1734.2 | 1890.9 |
| 72.5° | 215.0 | 215.7 | 221.9 | 191.7 | 144.3 | 123.5 | 129.4 | 625.7 | 1178.1 | 1292.2 |
| 75° | 190.2 | 183.3 | 189.1 | 156.0 | 107.5 | 101.3 | 99.8 | 386.6 | 813.7 | 903.7 |
| 77.5° | 163.6 | 156.0 | 148.3 | 117.3 | 86.4 | 78.3 | 76.5 | 216.8 | 499.2 | 554.6 |
| 80° | 133.0 | 122.8 | 110.8 | 86.0 | 63.0 | 56.1 | 55.8 | 105.7 | 248.9 | 277.3 |
| 82.5° | 103.5 | 84.2 | 80.9 | 53.6 | 39.0 | 34.3 | 36.4 | 40.4 | 75.1 | 83.8 |
| 85° | 72.5 | 61.2 | 43.0 | 21.5 | 17.5 | 14.2 | 13.8 | 12.0 | 20.0 | 22.2 |
| 87.5° | 40.4 | 26.6 | 13.8 | 2.6 | 2.9 | 3.3 | 2.6 | 1.8 | 1.8 | 1.8 |
| 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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