

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: P632597

Luminaire Tested: GWS-SA2D-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632597
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-SA2D-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8060.8 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

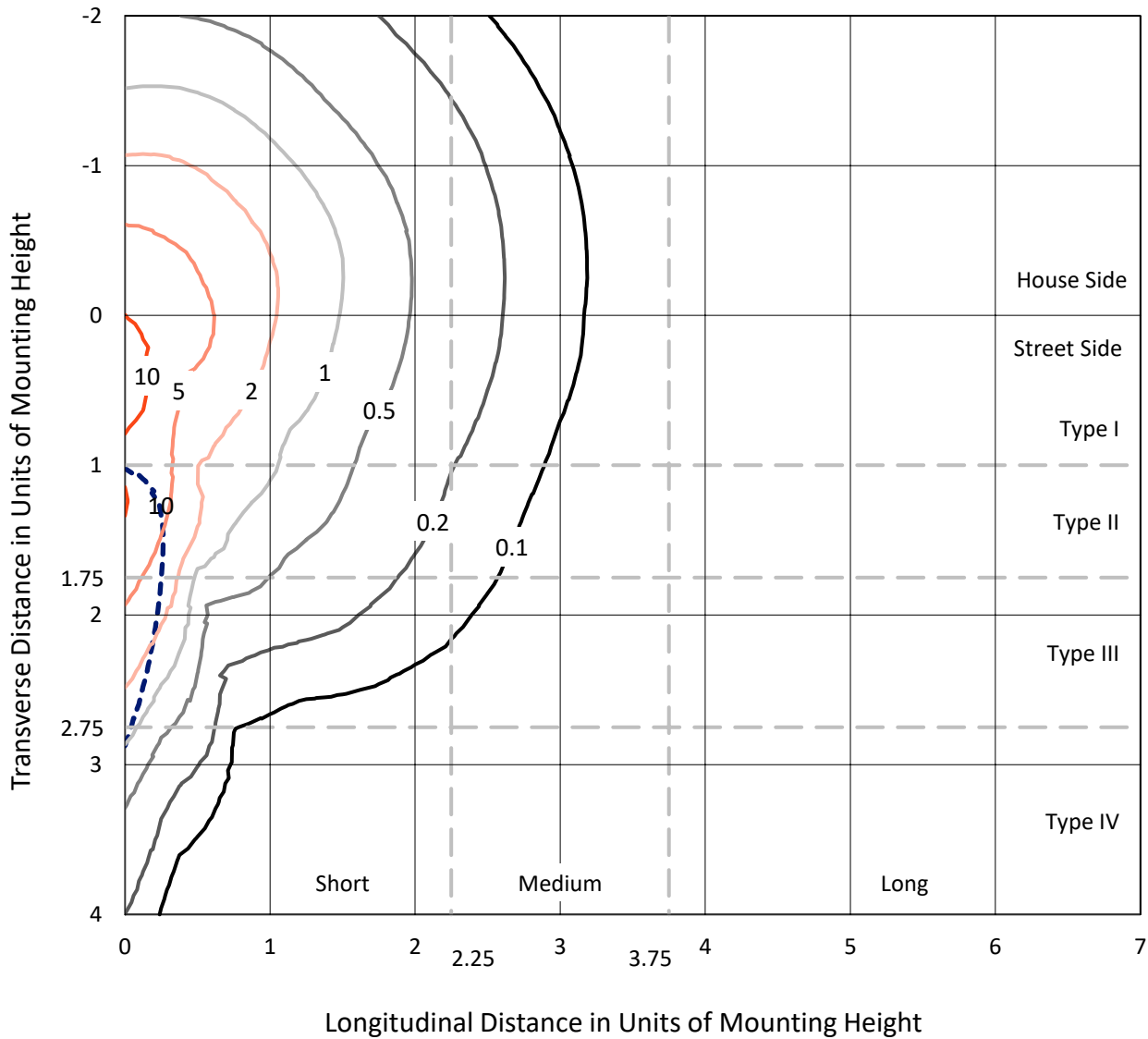
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

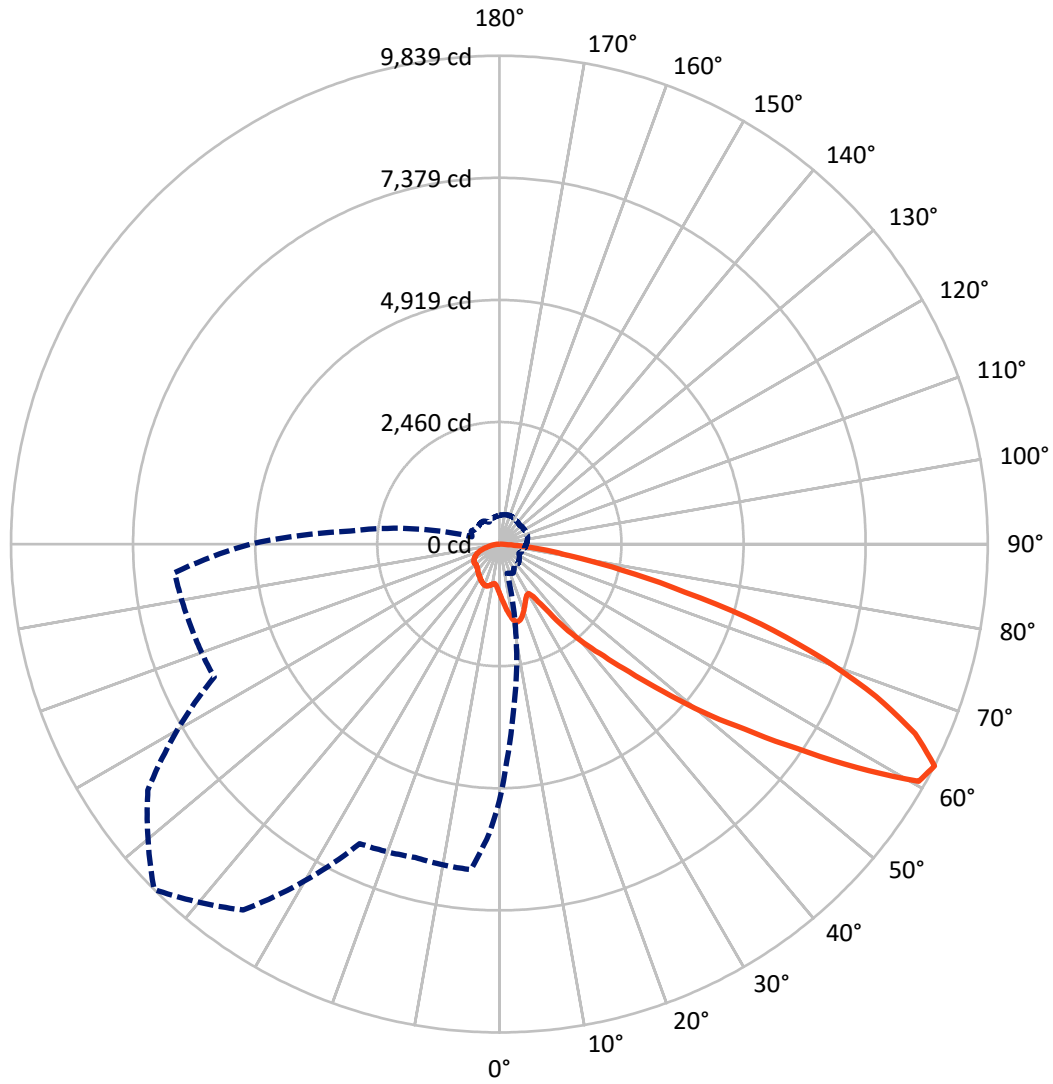
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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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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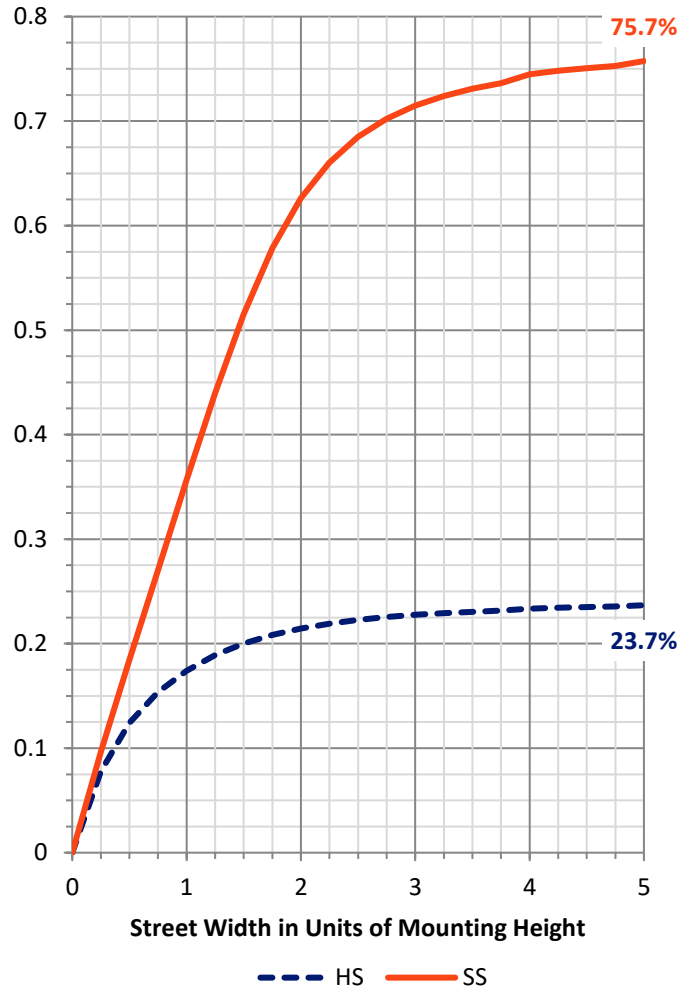
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1927.3 | 0.0 | 1927.3 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 6133.5 | 0.0 | 6133.5 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 8060.8 | 0.0 | 8060.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.0 | 1.2 |
| 10°-20° | 321.8 | 4.0 |
| 20°-30° | 506.6 | 6.3 |
| 30°-40° | 694.3 | 8.6 |
| 40°-50° | 1083.4 | 13.4 |
| 50°-60° | 1867.9 | 23.2 |
| 60°-70° | 2164.7 | 26.9 |
| 70°-80° | 1142.6 | 14.2 |
| 80°-90° | 180.5 | 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° | 8060.8 | 100.0 |
| 0°-180° | 8060.8 | 100.0 |

Coefficient of Utilization



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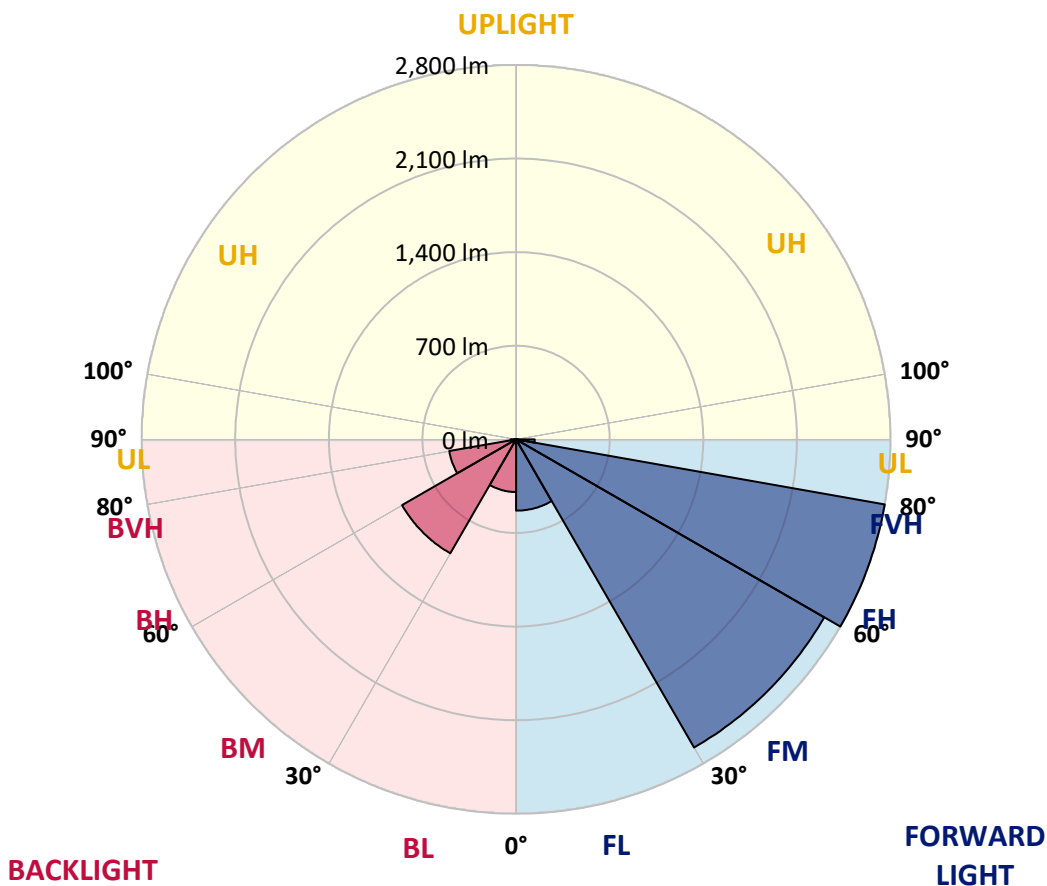
CATALOG NUMBER: GWS-SA2D-722-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 533.1 | 6.6 | | | |
| FM (30°-60°) | 2661.2 | 33.0 | | | |
| FH (60°-80°) | 2799.9 | 34.7 | | | G2/5000 |
| FVH (80°-90°) | 139.3 | 1.7 | | | G2/225 |
| BL (0°-30°) | 394.2 | 4.9 | B1/500 | | |
| BM (30°-60°) | 984.5 | 12.2 | B1/1000 | | |
| BH (60°-80°) | 507.5 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 41.2 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CATALOG NUMBER: GWS-SA2D-722-U-SLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 |
| 2.5° | 1092.0 | 1087.6 | 1081.5 | 1060.5 | 1047.6 | 1032.8 | 1017.3 | 999.5 | 979.1 | 964.9 | 950.8 |
| 5° | 1184.4 | 1177.7 | 1162.9 | 1112.9 | 1078.4 | 1040.8 | 1009.3 | 973.6 | 938.4 | 914.4 | 890.3 |
| 7.5° | 1273.2 | 1264.6 | 1241.8 | 1165.3 | 1109.2 | 1055.0 | 1007.5 | 955.7 | 903.3 | 867.5 | 839.2 |
| 10° | 1362.0 | 1344.1 | 1315.2 | 1215.3 | 1141.3 | 1078.4 | 1024.1 | 960.6 | 890.9 | 842.2 | 812.0 |
| 12.5° | 1429.8 | 1413.2 | 1381.7 | 1260.9 | 1173.3 | 1094.4 | 1033.4 | 974.8 | 915.6 | 863.8 | 833.0 |
| 15° | 1493.3 | 1471.8 | 1436.0 | 1303.4 | 1199.9 | 1093.8 | 1014.9 | 963.7 | 955.1 | 942.1 | 902.0 |
| 17.5° | 1539.0 | 1519.2 | 1482.2 | 1338.0 | 1214.6 | 1074.7 | 963.7 | 933.5 | 972.3 | 1011.8 | 973.6 |
| 20° | 1579.0 | 1556.2 | 1518.6 | 1362.0 | 1217.7 | 1032.1 | 901.4 | 902.0 | 963.1 | 1017.3 | 1008.1 |
| 22.5° | 1613.0 | 1587.7 | 1554.4 | 1389.1 | 1216.5 | 973.0 | 847.2 | 884.2 | 945.2 | 987.8 | 989.0 |
| 25° | 1654.9 | 1633.9 | 1606.2 | 1429.2 | 1216.5 | 912.5 | 807.7 | 862.6 | 915.0 | 950.8 | 949.5 |
| 27.5° | 1706.1 | 1691.9 | 1669.1 | 1490.3 | 1227.6 | 862.0 | 785.5 | 834.8 | 876.2 | 907.0 | 906.4 |
| 30° | 1763.4 | 1750.5 | 1733.2 | 1555.0 | 1246.7 | 824.4 | 773.2 | 800.3 | 830.5 | 855.2 | 855.2 |
| 32.5° | 1822.0 | 1817.0 | 1798.5 | 1606.8 | 1231.9 | 812.6 | 762.7 | 765.8 | 781.8 | 802.2 | 800.3 |
| 35° | 1903.4 | 1898.4 | 1875.0 | 1646.9 | 1167.8 | 796.0 | 746.1 | 730.6 | 732.5 | 745.4 | 749.8 |
| 37.5° | 2022.4 | 2015.0 | 1980.4 | 1693.7 | 1071.0 | 754.1 | 718.9 | 693.6 | 688.1 | 693.6 | 701.7 |
| 40° | 2166.0 | 2154.9 | 2108.1 | 1757.2 | 959.4 | 697.3 | 676.4 | 655.4 | 646.2 | 648.0 | 657.3 |
| 42.5° | 2346.1 | 2322.6 | 2255.4 | 1824.4 | 849.0 | 647.4 | 628.9 | 616.0 | 605.5 | 604.2 | 622.1 |
| 45° | 2638.3 | 2574.2 | 2467.5 | 1884.2 | 755.9 | 620.9 | 586.4 | 577.1 | 568.5 | 573.4 | 594.4 |
| 47.5° | 3148.8 | 3030.5 | 2822.7 | 1935.4 | 699.2 | 621.5 | 552.4 | 542.6 | 542.0 | 551.8 | 575.3 |
| 50° | 3850.5 | 3679.7 | 3359.1 | 1970.0 | 669.6 | 628.9 | 532.1 | 516.1 | 527.8 | 537.7 | 559.8 |
| 52.5° | 4522.6 | 4261.8 | 3880.1 | 1969.3 | 656.7 | 630.1 | 537.7 | 491.4 | 527.8 | 530.3 | 551.2 |
| 55° | 5096.6 | 4624.3 | 4020.7 | 1767.1 | 638.2 | 625.2 | 559.2 | 472.3 | 521.0 | 530.3 | 546.9 |
| 57.5° | 5552.9 | 4854.9 | 4010.2 | 1427.4 | 694.3 | 598.1 | 572.2 | 468.0 | 501.3 | 531.5 | 550.6 |
| 60° | 5502.3 | 4749.5 | 3751.8 | 876.2 | 688.7 | 550.0 | 570.3 | 476.0 | 468.0 | 514.8 | 546.3 |
| 62.5° | 5166.3 | 4371.5 | 3307.3 | 607.9 | 646.8 | 522.2 | 540.1 | 490.2 | 437.2 | 490.8 | 525.3 |
| 65° | 4695.8 | 3883.8 | 2756.1 | 466.1 | 535.8 | 523.5 | 488.9 | 480.3 | 410.0 | 452.6 | 489.6 |
| 67.5° | 4073.7 | 3278.9 | 2175.9 | 369.3 | 373.6 | 453.2 | 443.9 | 426.7 | 384.7 | 418.7 | 451.9 |
| 70° | 3062.5 | 2392.9 | 1497.0 | 297.2 | 283.0 | 378.6 | 398.9 | 383.5 | 360.1 | 369.9 | 405.1 |
| 72.5° | 2158.0 | 1562.4 | 820.0 | 235.5 | 218.3 | 291.0 | 346.5 | 344.0 | 318.2 | 325.6 | 360.1 |
| 75° | 1603.7 | 1105.5 | 512.4 | 186.2 | 177.6 | 208.4 | 290.4 | 297.8 | 276.2 | 284.9 | 311.4 |
| 77.5° | 1067.3 | 715.8 | 284.9 | 138.1 | 138.1 | 152.3 | 216.4 | 250.9 | 234.9 | 241.7 | 260.2 |
| 80° | 588.8 | 364.4 | 142.4 | 90.6 | 93.1 | 104.8 | 157.8 | 180.7 | 181.3 | 197.9 | 202.9 |
| 82.5° | 186.2 | 115.9 | 63.5 | 53.0 | 49.9 | 59.8 | 101.7 | 129.5 | 120.8 | 154.1 | 141.8 |
| 85° | 42.5 | 27.1 | 11.7 | 11.7 | 12.9 | 19.7 | 38.8 | 69.1 | 88.2 | 106.1 | 77.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 27.1 | 40.1 | 35.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 |
| 2.5° | 942.1 | 929.8 | 926.1 | 915.6 | 914.4 | 904.5 | 900.8 | 900.8 | 905.1 | 905.1 | 909.4 |
| 5° | 880.5 | 865.1 | 856.4 | 844.1 | 841.0 | 833.6 | 828.7 | 829.3 | 834.8 | 838.5 | 845.9 |
| 7.5° | 826.2 | 815.7 | 809.6 | 804.0 | 802.8 | 801.5 | 796.0 | 795.4 | 797.2 | 802.8 | 808.3 |
| 10° | 803.4 | 796.0 | 797.8 | 802.2 | 808.9 | 812.6 | 807.7 | 805.2 | 803.4 | 807.1 | 812.0 |
| 12.5° | 825.6 | 818.2 | 821.9 | 829.3 | 838.5 | 842.2 | 840.4 | 839.8 | 841.6 | 855.8 | 866.3 |
| 15° | 874.3 | 860.1 | 855.2 | 858.3 | 865.7 | 869.4 | 867.5 | 870.0 | 881.7 | 918.7 | 945.2 |
| 17.5° | 934.7 | 900.2 | 880.5 | 874.9 | 878.0 | 881.1 | 881.1 | 887.2 | 907.6 | 961.9 | 995.1 |
| 20° | 967.4 | 922.4 | 889.1 | 875.5 | 876.8 | 879.9 | 879.9 | 888.5 | 911.3 | 969.3 | 990.8 |
| 22.5° | 958.8 | 917.5 | 876.8 | 862.0 | 862.6 | 865.1 | 865.1 | 872.5 | 892.8 | 944.0 | 953.8 |
| 25° | 924.9 | 888.5 | 848.4 | 835.5 | 836.7 | 841.0 | 839.8 | 844.1 | 859.5 | 901.4 | 907.0 |
| 27.5° | 884.2 | 852.1 | 812.6 | 802.8 | 808.3 | 817.0 | 809.6 | 810.2 | 824.4 | 859.5 | 860.1 |
| 30° | 840.4 | 813.9 | 778.7 | 771.3 | 781.8 | 786.1 | 779.3 | 779.3 | 793.5 | 817.6 | 817.0 |
| 32.5° | 792.9 | 776.3 | 751.0 | 743.0 | 754.7 | 761.5 | 752.8 | 754.1 | 765.2 | 781.2 | 775.0 |
| 35° | 748.5 | 739.9 | 728.2 | 722.6 | 730.0 | 736.2 | 730.6 | 733.1 | 743.6 | 747.9 | 739.3 |
| 37.5° | 706.0 | 704.7 | 706.0 | 706.0 | 707.8 | 709.7 | 706.0 | 712.1 | 721.4 | 715.8 | 706.0 |
| 40° | 669.0 | 673.9 | 685.6 | 682.5 | 680.7 | 682.5 | 680.1 | 690.6 | 699.8 | 689.9 | 678.2 |
| 42.5° | 638.2 | 647.4 | 665.3 | 665.3 | 661.6 | 662.8 | 661.6 | 674.5 | 681.3 | 667.7 | 654.8 |
| 45° | 611.6 | 625.2 | 648.0 | 651.1 | 644.9 | 644.9 | 647.4 | 663.4 | 665.9 | 647.4 | 633.8 |
| 47.5° | 593.1 | 609.8 | 635.7 | 641.2 | 632.0 | 631.4 | 638.2 | 655.4 | 655.4 | 633.8 | 618.4 |
| 50° | 580.2 | 598.7 | 629.5 | 636.9 | 627.7 | 625.2 | 636.3 | 653.0 | 649.3 | 623.4 | 607.9 |
| 52.5° | 571.6 | 590.7 | 628.9 | 639.4 | 633.2 | 630.8 | 641.9 | 653.6 | 644.3 | 616.6 | 600.5 |
| 55° | 566.0 | 587.0 | 630.8 | 639.4 | 632.6 | 628.3 | 639.4 | 649.9 | 644.9 | 612.9 | 597.5 |
| 57.5° | 569.1 | 590.1 | 628.3 | 632.6 | 624.6 | 617.2 | 630.1 | 644.9 | 643.1 | 614.1 | 598.7 |
| 60° | 564.2 | 583.3 | 614.7 | 616.0 | 602.4 | 590.7 | 609.8 | 632.0 | 632.0 | 609.8 | 596.2 |
| 62.5° | 541.4 | 560.5 | 588.2 | 589.4 | 574.0 | 561.1 | 583.3 | 609.8 | 609.2 | 591.3 | 577.1 |
| 65° | 503.7 | 521.6 | 553.1 | 556.1 | 540.7 | 527.2 | 550.0 | 574.6 | 576.5 | 560.5 | 548.1 |
| 67.5° | 462.4 | 478.5 | 501.9 | 514.2 | 501.3 | 487.1 | 508.1 | 531.5 | 530.9 | 511.8 | 498.8 |
| 70° | 413.1 | 427.9 | 449.5 | 460.0 | 451.9 | 438.4 | 457.5 | 469.8 | 464.3 | 455.0 | 446.4 |
| 72.5° | 364.4 | 378.6 | 398.9 | 398.9 | 390.3 | 377.3 | 382.9 | 405.1 | 411.9 | 405.1 | 399.5 |
| 75° | 313.2 | 325.6 | 339.7 | 342.8 | 323.7 | 300.3 | 326.2 | 345.3 | 353.3 | 350.2 | 343.4 |
| 77.5° | 260.8 | 270.1 | 291.0 | 285.5 | 249.7 | 237.4 | 258.3 | 286.7 | 292.3 | 290.4 | 281.2 |
| 80° | 201.0 | 206.6 | 228.7 | 217.7 | 189.9 | 181.9 | 191.1 | 213.3 | 214.6 | 208.4 | 196.7 |
| 82.5° | 135.0 | 142.4 | 157.2 | 135.6 | 135.0 | 127.6 | 120.2 | 122.7 | 133.8 | 132.6 | 124.5 |
| 85° | 69.1 | 72.8 | 86.9 | 81.4 | 69.7 | 60.4 | 57.3 | 61.0 | 54.9 | 49.9 | 43.2 |
| 87.5° | 29.0 | 31.4 | 43.2 | 24.0 | 7.4 | 0.0 | 0.0 | 3.7 | 5.5 | 8.0 | 8.6 |
| 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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 CATALOG NUMBER: GWS-SA2D-722-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 | 1005.0 |
| 2.5° | 919.3 | 926.1 | 942.7 | 963.7 | 984.1 | 1005.0 | 1027.8 | 1042.0 | 1059.3 | 1081.5 | 1082.1 |
| 5° | 855.2 | 870.6 | 894.6 | 926.7 | 960.0 | 998.2 | 1042.6 | 1079.6 | 1124.0 | 1159.2 | 1173.3 |
| 7.5° | 815.7 | 837.9 | 868.1 | 908.8 | 952.6 | 1000.1 | 1058.0 | 1120.3 | 1193.1 | 1239.9 | 1267.7 |
| 10° | 819.4 | 853.3 | 883.5 | 918.1 | 957.5 | 1008.7 | 1083.3 | 1165.9 | 1255.3 | 1317.0 | 1351.5 |
| 12.5° | 885.4 | 921.2 | 915.6 | 913.8 | 940.3 | 1002.5 | 1103.7 | 1212.2 | 1321.3 | 1383.0 | 1424.3 |
| 15° | 968.6 | 982.2 | 929.8 | 890.3 | 906.4 | 980.4 | 1114.8 | 1253.5 | 1376.2 | 1451.4 | 1492.1 |
| 17.5° | 1011.2 | 984.1 | 920.5 | 861.4 | 857.0 | 946.4 | 1120.3 | 1295.4 | 1437.8 | 1513.1 | 1556.2 |
| 20° | 991.5 | 952.0 | 898.3 | 842.2 | 811.4 | 900.2 | 1117.2 | 1328.7 | 1494.0 | 1577.8 | 1613.0 |
| 22.5° | 948.9 | 914.4 | 872.5 | 818.8 | 774.4 | 849.6 | 1109.2 | 1362.0 | 1543.9 | 1628.4 | 1659.2 |
| 25° | 902.7 | 876.8 | 842.2 | 795.4 | 753.5 | 805.2 | 1103.7 | 1406.4 | 1601.2 | 1682.0 | 1701.7 |
| 27.5° | 856.4 | 837.3 | 808.9 | 772.6 | 748.5 | 774.4 | 1105.5 | 1464.4 | 1675.2 | 1751.7 | 1743.7 |
| 30° | 810.8 | 794.1 | 774.4 | 758.4 | 747.9 | 767.0 | 1100.6 | 1526.0 | 1756.6 | 1827.5 | 1780.0 |
| 32.5° | 767.6 | 752.2 | 739.9 | 742.4 | 748.5 | 770.1 | 1075.3 | 1582.1 | 1831.2 | 1891.6 | 1819.5 |
| 35° | 730.6 | 714.6 | 714.6 | 723.2 | 746.1 | 759.6 | 1009.9 | 1625.9 | 1913.8 | 1974.3 | 1875.6 |
| 37.5° | 696.1 | 681.9 | 691.2 | 705.4 | 726.9 | 731.3 | 926.1 | 1668.4 | 2034.1 | 2090.8 | 1962.6 |
| 40° | 665.9 | 651.7 | 668.4 | 686.2 | 697.3 | 695.5 | 841.0 | 1727.6 | 2175.9 | 2234.5 | 2077.9 |
| 42.5° | 641.9 | 628.9 | 643.7 | 666.5 | 668.4 | 670.2 | 778.7 | 1784.4 | 2340.5 | 2415.1 | 2276.4 |
| 45° | 622.1 | 612.9 | 620.3 | 643.1 | 643.1 | 671.4 | 739.9 | 1831.8 | 2588.4 | 2720.3 | 2640.8 |
| 47.5° | 606.7 | 601.2 | 604.9 | 612.3 | 624.6 | 693.6 | 715.2 | 1868.2 | 3039.7 | 3298.7 | 3218.5 |
| 50° | 598.1 | 592.5 | 597.5 | 582.0 | 619.0 | 704.7 | 707.2 | 1896.0 | 3634.7 | 4040.4 | 3941.1 |
| 52.5° | 590.7 | 588.8 | 591.9 | 556.1 | 631.4 | 697.3 | 701.0 | 1859.0 | 4033.6 | 4770.4 | 4868.5 |
| 55° | 588.2 | 589.4 | 574.6 | 537.0 | 646.2 | 672.7 | 682.5 | 1594.5 | 4142.1 | 5400.0 | 6008.5 |
| 57.5° | 589.4 | 585.7 | 548.1 | 538.9 | 646.8 | 623.4 | 709.1 | 1137.6 | 3984.3 | 5673.7 | 7123.9 |
| 60° | 585.1 | 566.6 | 516.1 | 555.5 | 618.4 | 565.4 | 689.9 | 741.7 | 3568.1 | 5463.5 | 7188.6 |
| 62.5° | 566.0 | 538.9 | 488.3 | 564.8 | 567.9 | 530.9 | 626.4 | 571.6 | 3013.2 | 5013.4 | 6564.7 |
| 65° | 538.3 | 501.9 | 464.9 | 545.7 | 516.7 | 514.8 | 471.1 | 458.1 | 2423.1 | 4477.6 | 5972.7 |
| 67.5° | 492.6 | 456.3 | 447.6 | 501.9 | 464.9 | 456.3 | 378.6 | 379.8 | 1933.6 | 3906.6 | 5377.8 |
| 70° | 440.9 | 404.5 | 411.3 | 453.8 | 413.7 | 379.2 | 306.4 | 316.3 | 1466.8 | 3254.9 | 4575.6 |
| 72.5° | 406.9 | 358.2 | 358.8 | 399.5 | 363.8 | 307.1 | 252.2 | 260.8 | 931.0 | 2453.3 | 3637.8 |
| 75° | 343.4 | 315.7 | 302.1 | 323.7 | 308.9 | 239.2 | 212.1 | 210.3 | 551.8 | 1758.5 | 2724.0 |
| 77.5° | 286.7 | 265.1 | 258.3 | 267.0 | 230.6 | 177.0 | 170.8 | 167.7 | 312.6 | 1126.5 | 1785.0 |
| 80° | 207.8 | 202.2 | 201.6 | 205.9 | 177.6 | 130.1 | 130.1 | 130.7 | 168.3 | 611.6 | 1006.2 |
| 82.5° | 131.9 | 144.3 | 127.6 | 141.8 | 120.8 | 92.5 | 86.3 | 98.0 | 96.8 | 260.8 | 424.2 |
| 85° | 54.9 | 75.2 | 70.3 | 74.6 | 57.3 | 50.6 | 54.3 | 58.6 | 56.1 | 100.5 | 165.2 |
| 87.5° | 10.5 | 12.3 | 13.6 | 12.9 | 12.9 | 16.0 | 17.9 | 21.6 | 21.6 | 29.0 | 49.9 |
| 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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| 87.5° | 69.1 | 106.7 | 58.6 | 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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