

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: P636997

Luminaire Tested: GWS-SA4B-830-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636997
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-SA4B-830-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10776.6 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

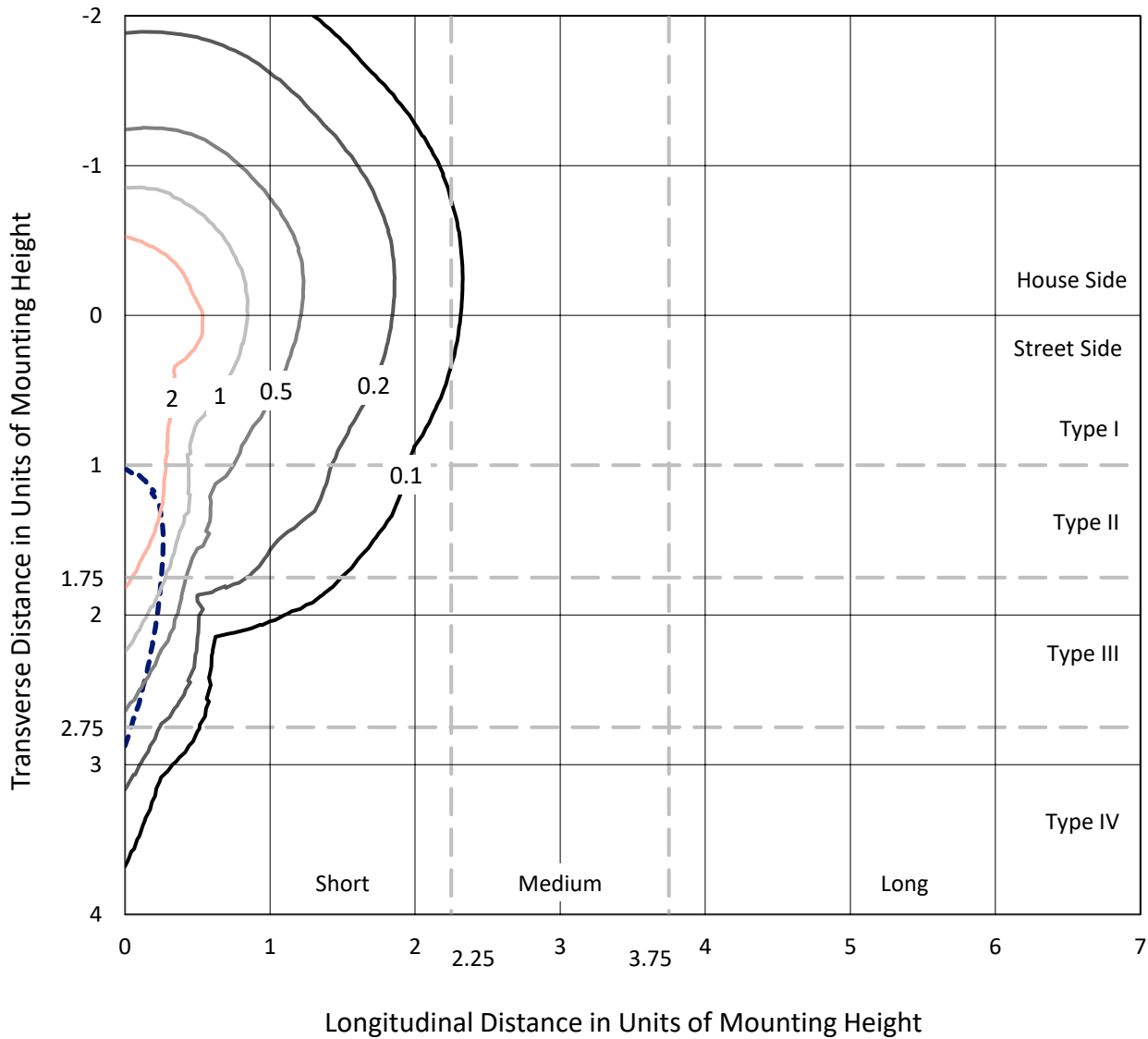
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

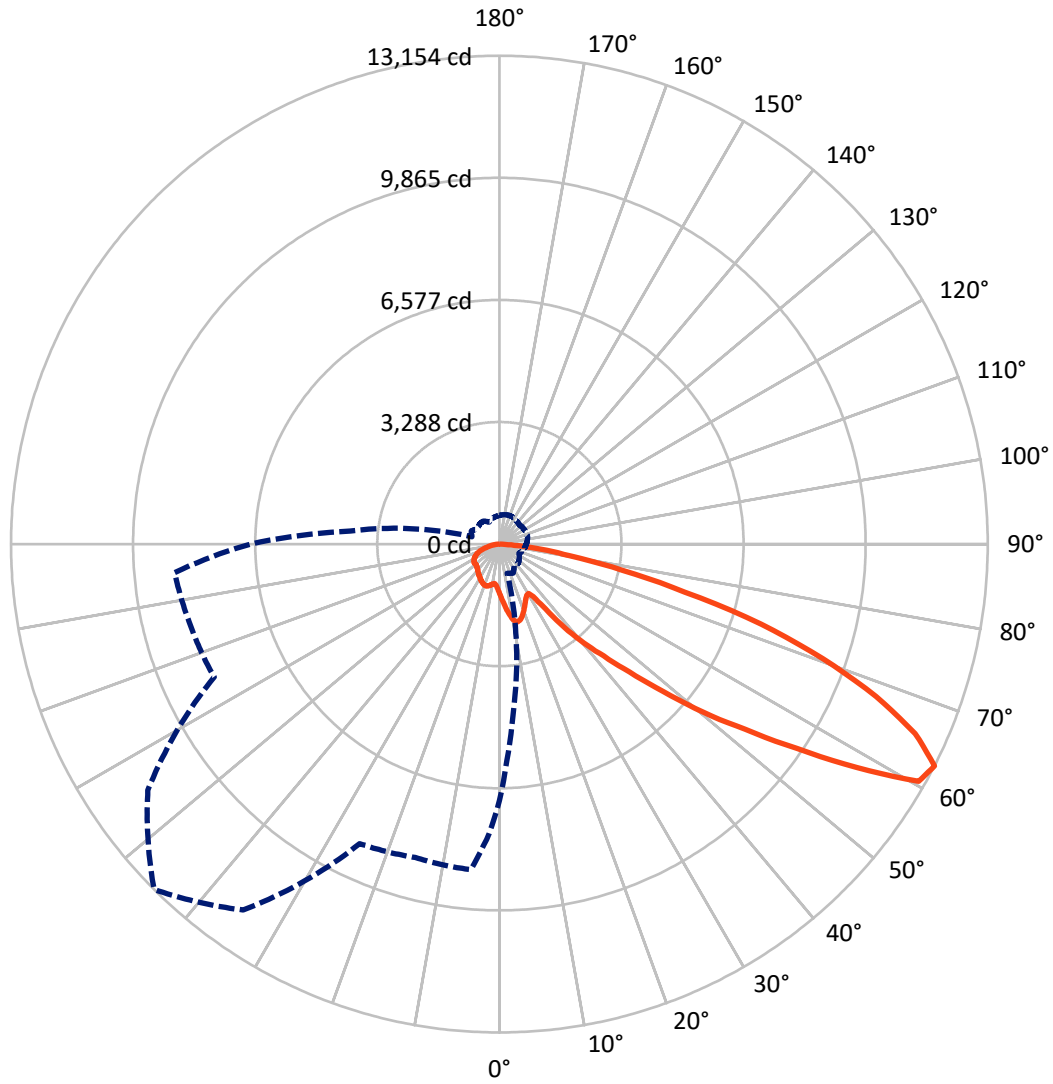
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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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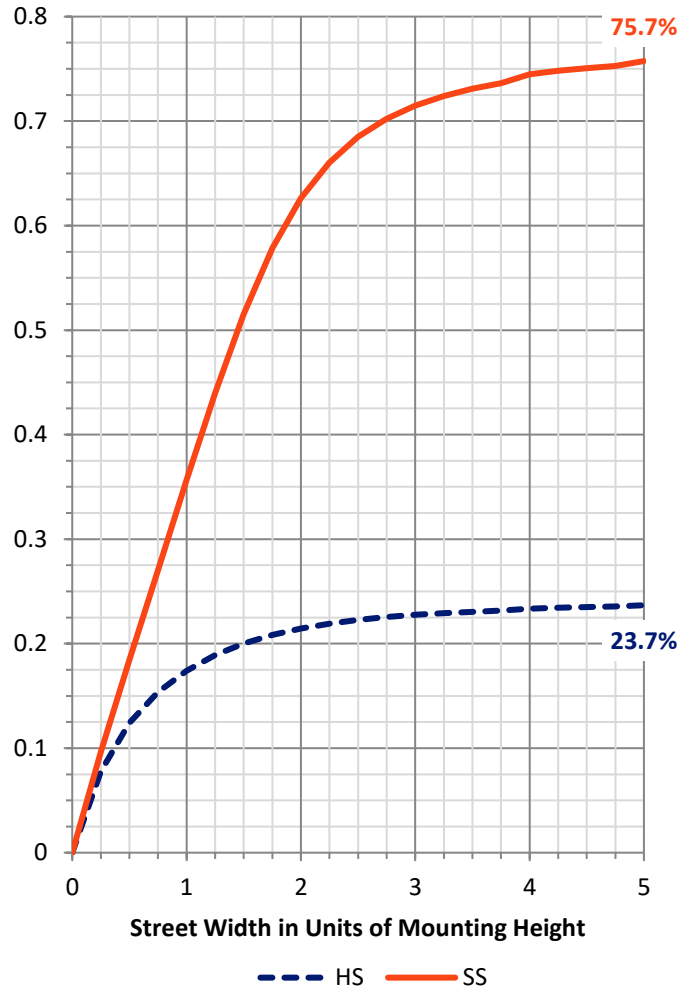
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2576.7 | 0.0 | 2576.7 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 8199.9 | 0.0 | 8199.9 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 10776.6 | 0.0 | 10776.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 132.4 | 1.2 |
| 10°-20° | 430.2 | 4.0 |
| 20°-30° | 677.2 | 6.3 |
| 30°-40° | 928.3 | 8.6 |
| 40°-50° | 1448.4 | 13.4 |
| 50°-60° | 2497.3 | 23.2 |
| 60°-70° | 2894.0 | 26.9 |
| 70°-80° | 1527.6 | 14.2 |
| 80°-90° | 241.3 | 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° | 10776.6 | 100.0 |
| 0°-180° | 10776.6 | 100.0 |

Coefficient of Utilization



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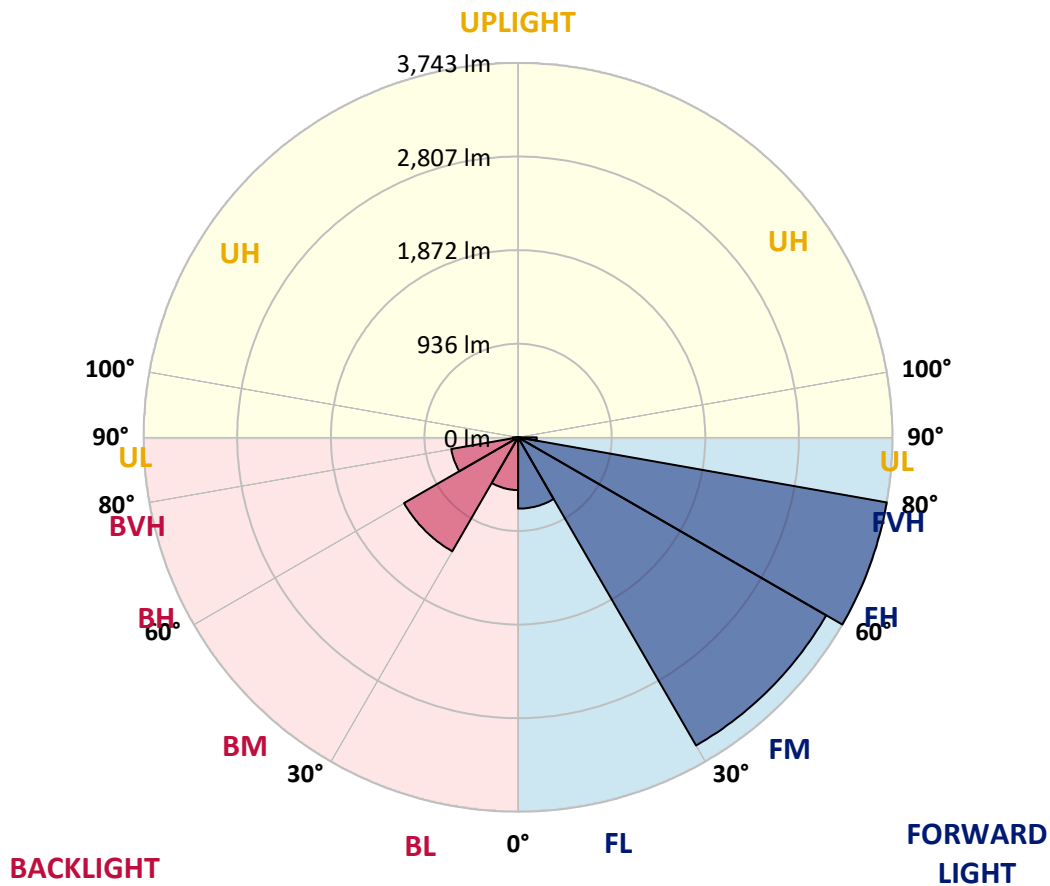
CATALOG NUMBER: GWS-SA4B-830-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 712.7 | 6.6 | | | |
| FM (30°-60°) | 3557.7 | 33.0 | | | |
| FH (60°-80°) | 3743.2 | 34.7 | | | G2/5000 |
| FVH (80°-90°) | 186.3 | 1.7 | | | G2/225 |
| BL (0°-30°) | 527.0 | 4.9 | B2/1000 | | |
| BM (30°-60°) | 1316.2 | 12.2 | B2/2500 | | |
| BH (60°-80°) | 678.5 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 55.1 | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 |
| 2.5° | 1459.8 | 1454.1 | 1445.8 | 1417.8 | 1400.5 | 1380.7 | 1360.1 | 1336.2 | 1309.0 | 1290.0 | 1271.1 |
| 5° | 1583.5 | 1574.4 | 1554.6 | 1487.9 | 1441.7 | 1391.4 | 1349.4 | 1301.6 | 1254.6 | 1222.4 | 1190.3 |
| 7.5° | 1702.2 | 1690.7 | 1660.2 | 1557.9 | 1482.9 | 1410.4 | 1346.9 | 1277.7 | 1207.6 | 1159.8 | 1121.9 |
| 10° | 1820.9 | 1797.0 | 1758.2 | 1624.7 | 1525.8 | 1441.7 | 1369.2 | 1284.3 | 1191.1 | 1126.0 | 1085.6 |
| 12.5° | 1911.6 | 1889.3 | 1847.3 | 1685.7 | 1568.7 | 1463.1 | 1381.5 | 1303.2 | 1224.1 | 1154.9 | 1113.6 |
| 15° | 1996.5 | 1967.6 | 1919.8 | 1742.6 | 1604.1 | 1462.3 | 1356.8 | 1288.4 | 1276.9 | 1259.5 | 1206.0 |
| 17.5° | 2057.5 | 2031.1 | 1981.6 | 1788.7 | 1623.9 | 1436.8 | 1288.4 | 1248.0 | 1299.9 | 1352.7 | 1301.6 |
| 20° | 2111.0 | 2080.5 | 2030.3 | 1820.9 | 1628.0 | 1379.9 | 1205.1 | 1206.0 | 1287.6 | 1360.1 | 1347.7 |
| 22.5° | 2156.4 | 2122.6 | 2078.1 | 1857.2 | 1626.4 | 1300.8 | 1132.6 | 1182.1 | 1263.7 | 1320.5 | 1322.2 |
| 25° | 2212.4 | 2184.4 | 2147.3 | 1910.7 | 1626.4 | 1220.0 | 1079.8 | 1153.2 | 1223.3 | 1271.1 | 1269.4 |
| 27.5° | 2280.9 | 2261.9 | 2231.4 | 1992.3 | 1641.2 | 1152.4 | 1050.2 | 1116.1 | 1171.3 | 1212.6 | 1211.7 |
| 30° | 2357.5 | 2340.2 | 2317.1 | 2078.9 | 1666.7 | 1102.1 | 1033.7 | 1069.9 | 1110.3 | 1143.3 | 1143.3 |
| 32.5° | 2435.8 | 2429.2 | 2404.5 | 2148.1 | 1647.0 | 1086.4 | 1019.7 | 1023.8 | 1045.2 | 1072.4 | 1069.9 |
| 35° | 2544.6 | 2538.0 | 2506.7 | 2201.7 | 1561.2 | 1064.2 | 997.4 | 976.8 | 979.3 | 996.6 | 1002.4 |
| 37.5° | 2703.7 | 2693.8 | 2647.7 | 2264.4 | 1431.8 | 1008.1 | 961.1 | 927.3 | 919.9 | 927.3 | 938.1 |
| 40° | 2895.8 | 2880.9 | 2818.3 | 2349.3 | 1282.6 | 932.3 | 904.3 | 876.2 | 863.9 | 866.3 | 878.7 |
| 42.5° | 3136.5 | 3105.2 | 3015.3 | 2439.1 | 1135.1 | 865.5 | 840.8 | 823.5 | 809.5 | 807.8 | 831.7 |
| 45° | 3527.2 | 3441.5 | 3298.9 | 2519.1 | 1010.6 | 830.1 | 783.9 | 771.6 | 760.0 | 766.6 | 794.6 |
| 47.5° | 4209.7 | 4051.5 | 3773.7 | 2587.5 | 934.8 | 830.9 | 738.6 | 725.4 | 724.6 | 737.8 | 769.1 |
| 50° | 5147.8 | 4919.5 | 4490.8 | 2633.7 | 895.2 | 840.8 | 711.4 | 689.9 | 705.6 | 718.8 | 748.5 |
| 52.5° | 6046.3 | 5697.6 | 5187.4 | 2632.8 | 877.9 | 842.4 | 718.8 | 657.0 | 705.6 | 708.9 | 736.9 |
| 55° | 6813.7 | 6182.3 | 5375.3 | 2362.5 | 853.2 | 835.8 | 747.6 | 631.4 | 696.5 | 708.9 | 731.2 |
| 57.5° | 7423.7 | 6490.6 | 5361.3 | 1908.3 | 928.2 | 799.6 | 765.0 | 625.6 | 670.2 | 710.6 | 736.1 |
| 60° | 7356.1 | 6349.6 | 5015.9 | 1171.3 | 920.7 | 735.3 | 762.5 | 636.4 | 625.6 | 688.3 | 730.3 |
| 62.5° | 6906.9 | 5844.3 | 4421.6 | 812.8 | 864.7 | 698.2 | 722.1 | 655.3 | 584.4 | 656.1 | 702.3 |
| 65° | 6277.9 | 5192.3 | 3684.6 | 623.2 | 716.3 | 699.8 | 653.7 | 642.1 | 548.2 | 605.0 | 654.5 |
| 67.5° | 5446.2 | 4383.7 | 2909.0 | 493.8 | 499.5 | 605.9 | 593.5 | 570.4 | 514.4 | 559.7 | 604.2 |
| 70° | 4094.3 | 3199.1 | 2001.4 | 397.3 | 378.4 | 506.1 | 533.3 | 512.7 | 481.4 | 494.6 | 541.6 |
| 72.5° | 2885.1 | 2088.8 | 1096.3 | 314.9 | 291.8 | 389.1 | 463.3 | 460.0 | 425.3 | 435.2 | 481.4 |
| 75° | 2144.0 | 1478.0 | 685.0 | 248.9 | 237.4 | 278.6 | 388.2 | 398.1 | 369.3 | 380.8 | 416.3 |
| 77.5° | 1426.9 | 957.0 | 380.8 | 184.6 | 184.6 | 203.6 | 289.3 | 335.5 | 314.1 | 323.1 | 347.9 |
| 80° | 787.2 | 487.2 | 190.4 | 121.2 | 124.5 | 140.1 | 211.0 | 241.5 | 242.3 | 264.6 | 271.2 |
| 82.5° | 248.9 | 155.0 | 84.9 | 70.9 | 66.8 | 80.0 | 136.0 | 173.1 | 161.6 | 206.1 | 189.6 |
| 85° | 56.9 | 36.3 | 15.7 | 15.7 | 17.3 | 26.4 | 51.9 | 92.3 | 117.9 | 141.8 | 103.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 36.3 | 53.6 | 47.8 |
| 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-SA4B-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 |
| 2.5° | 1259.5 | 1243.1 | 1238.1 | 1224.1 | 1222.4 | 1209.3 | 1204.3 | 1204.3 | 1210.1 | 1210.1 | 1215.9 |
| 5° | 1177.1 | 1156.5 | 1145.0 | 1128.5 | 1124.4 | 1114.5 | 1107.9 | 1108.7 | 1116.1 | 1121.1 | 1130.9 |
| 7.5° | 1104.6 | 1090.6 | 1082.3 | 1074.9 | 1073.2 | 1071.6 | 1064.2 | 1063.4 | 1065.8 | 1073.2 | 1080.7 |
| 10° | 1074.1 | 1064.2 | 1066.7 | 1072.4 | 1081.5 | 1086.4 | 1079.8 | 1076.5 | 1074.1 | 1079.0 | 1085.6 |
| 12.5° | 1103.7 | 1093.9 | 1098.8 | 1108.7 | 1121.1 | 1126.0 | 1123.5 | 1122.7 | 1125.2 | 1144.1 | 1158.2 |
| 15° | 1168.9 | 1149.9 | 1143.3 | 1147.4 | 1157.3 | 1162.3 | 1159.8 | 1163.1 | 1178.8 | 1228.2 | 1263.7 |
| 17.5° | 1249.6 | 1203.5 | 1177.1 | 1169.7 | 1173.8 | 1177.9 | 1177.9 | 1186.2 | 1213.4 | 1285.9 | 1330.4 |
| 20° | 1293.3 | 1233.2 | 1188.6 | 1170.5 | 1172.2 | 1176.3 | 1176.3 | 1187.8 | 1218.3 | 1295.8 | 1324.7 |
| 22.5° | 1281.8 | 1226.6 | 1172.2 | 1152.4 | 1153.2 | 1156.5 | 1156.5 | 1166.4 | 1193.6 | 1262.0 | 1275.2 |
| 25° | 1236.5 | 1187.8 | 1134.2 | 1116.9 | 1118.6 | 1124.4 | 1122.7 | 1128.5 | 1149.1 | 1205.1 | 1212.6 |
| 27.5° | 1182.1 | 1139.2 | 1086.4 | 1073.2 | 1080.7 | 1092.2 | 1082.3 | 1083.1 | 1102.1 | 1149.1 | 1149.9 |
| 30° | 1123.5 | 1088.1 | 1041.1 | 1031.2 | 1045.2 | 1051.0 | 1041.9 | 1041.9 | 1060.9 | 1093.0 | 1092.2 |
| 32.5° | 1060.1 | 1037.8 | 1004.0 | 993.3 | 1009.0 | 1018.0 | 1006.5 | 1008.1 | 1023.0 | 1044.4 | 1036.2 |
| 35° | 1000.7 | 989.2 | 973.5 | 966.1 | 976.0 | 984.2 | 976.8 | 980.1 | 994.1 | 999.9 | 988.3 |
| 37.5° | 943.8 | 942.2 | 943.8 | 943.8 | 946.3 | 948.8 | 943.8 | 952.1 | 964.4 | 957.0 | 943.8 |
| 40° | 894.4 | 901.0 | 916.6 | 912.5 | 910.0 | 912.5 | 909.2 | 923.2 | 935.6 | 922.4 | 906.7 |
| 42.5° | 853.2 | 865.5 | 889.4 | 889.4 | 884.5 | 886.1 | 884.5 | 901.8 | 910.9 | 892.7 | 875.4 |
| 45° | 817.7 | 835.8 | 866.3 | 870.5 | 862.2 | 862.2 | 865.5 | 887.0 | 890.3 | 865.5 | 847.4 |
| 47.5° | 793.0 | 815.2 | 849.9 | 857.3 | 844.9 | 844.1 | 853.2 | 876.2 | 876.2 | 847.4 | 826.8 |
| 50° | 775.7 | 800.4 | 841.6 | 851.5 | 839.1 | 835.8 | 850.7 | 872.9 | 868.0 | 833.4 | 812.8 |
| 52.5° | 764.1 | 789.7 | 840.8 | 854.8 | 846.6 | 843.3 | 858.1 | 873.8 | 861.4 | 824.3 | 802.9 |
| 55° | 756.7 | 784.7 | 843.3 | 854.8 | 845.7 | 840.0 | 854.8 | 868.8 | 862.2 | 819.4 | 798.8 |
| 57.5° | 760.8 | 788.9 | 840.0 | 845.7 | 835.0 | 825.1 | 842.4 | 862.2 | 859.8 | 821.0 | 800.4 |
| 60° | 754.2 | 779.8 | 821.8 | 823.5 | 805.3 | 789.7 | 815.2 | 844.9 | 844.9 | 815.2 | 797.1 |
| 62.5° | 723.7 | 749.3 | 786.4 | 788.0 | 767.4 | 750.1 | 779.8 | 815.2 | 814.4 | 790.5 | 771.6 |
| 65° | 673.5 | 697.4 | 739.4 | 743.5 | 722.9 | 704.8 | 735.3 | 768.3 | 770.7 | 749.3 | 732.8 |
| 67.5° | 618.2 | 639.7 | 671.0 | 687.5 | 670.2 | 651.2 | 679.2 | 710.6 | 709.7 | 684.2 | 666.9 |
| 70° | 552.3 | 572.1 | 600.9 | 614.9 | 604.2 | 586.1 | 611.6 | 628.1 | 620.7 | 608.3 | 596.8 |
| 72.5° | 487.2 | 506.1 | 533.3 | 533.3 | 521.8 | 504.5 | 511.9 | 541.6 | 550.6 | 541.6 | 534.2 |
| 75° | 418.7 | 435.2 | 454.2 | 458.3 | 432.8 | 401.4 | 436.1 | 461.6 | 472.3 | 468.2 | 459.1 |
| 77.5° | 348.7 | 361.0 | 389.1 | 381.7 | 333.8 | 317.4 | 345.4 | 383.3 | 390.7 | 388.2 | 375.9 |
| 80° | 268.7 | 276.1 | 305.8 | 291.0 | 253.9 | 243.2 | 255.5 | 285.2 | 286.9 | 278.6 | 263.0 |
| 82.5° | 180.5 | 190.4 | 210.2 | 181.3 | 180.5 | 170.6 | 160.7 | 164.0 | 178.9 | 177.2 | 166.5 |
| 85° | 92.3 | 97.3 | 116.2 | 108.8 | 93.1 | 80.8 | 76.7 | 81.6 | 73.4 | 66.8 | 57.7 |
| 87.5° | 38.7 | 42.0 | 57.7 | 32.1 | 9.9 | 0.0 | 0.0 | 4.9 | 7.4 | 10.7 | 11.5 |
| 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-SA4B-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 |
| 2.5° | 1229.0 | 1238.1 | 1260.4 | 1288.4 | 1315.6 | 1343.6 | 1374.1 | 1393.1 | 1416.2 | 1445.8 | 1446.7 |
| 5° | 1143.3 | 1163.9 | 1196.1 | 1238.9 | 1283.4 | 1334.6 | 1393.9 | 1443.4 | 1502.7 | 1549.7 | 1568.7 |
| 7.5° | 1090.6 | 1120.2 | 1160.6 | 1215.0 | 1273.6 | 1337.0 | 1414.5 | 1497.8 | 1595.0 | 1657.7 | 1694.8 |
| 10° | 1095.5 | 1140.8 | 1181.2 | 1227.4 | 1280.1 | 1348.6 | 1448.3 | 1558.8 | 1678.3 | 1760.7 | 1806.9 |
| 12.5° | 1183.7 | 1231.5 | 1224.1 | 1221.6 | 1257.1 | 1340.3 | 1475.5 | 1620.6 | 1766.5 | 1848.9 | 1904.1 |
| 15° | 1295.0 | 1313.1 | 1243.1 | 1190.3 | 1211.7 | 1310.6 | 1490.3 | 1675.8 | 1839.9 | 1940.4 | 1994.8 |
| 17.5° | 1351.9 | 1315.6 | 1230.7 | 1151.6 | 1145.8 | 1265.3 | 1497.8 | 1731.9 | 1922.3 | 2022.8 | 2080.5 |
| 20° | 1325.5 | 1272.7 | 1201.0 | 1126.0 | 1084.8 | 1203.5 | 1493.6 | 1776.4 | 1997.3 | 2109.4 | 2156.4 |
| 22.5° | 1268.6 | 1222.4 | 1166.4 | 1094.7 | 1035.3 | 1135.9 | 1482.9 | 1820.9 | 2064.1 | 2177.0 | 2218.2 |
| 25° | 1206.8 | 1172.2 | 1126.0 | 1063.4 | 1007.3 | 1076.5 | 1475.5 | 1880.2 | 2140.7 | 2248.7 | 2275.1 |
| 27.5° | 1145.0 | 1119.4 | 1081.5 | 1032.9 | 1000.7 | 1035.3 | 1478.0 | 1957.7 | 2239.6 | 2341.9 | 2331.1 |
| 30° | 1084.0 | 1061.7 | 1035.3 | 1013.9 | 999.9 | 1025.4 | 1471.4 | 2040.2 | 2348.4 | 2443.2 | 2379.8 |
| 32.5° | 1026.3 | 1005.7 | 989.2 | 992.5 | 1000.7 | 1029.6 | 1437.6 | 2115.2 | 2448.2 | 2529.0 | 2432.5 |
| 35° | 976.8 | 955.4 | 955.4 | 966.9 | 997.4 | 1015.5 | 1350.2 | 2173.7 | 2558.6 | 2639.4 | 2507.5 |
| 37.5° | 930.6 | 911.7 | 924.0 | 943.0 | 971.9 | 977.6 | 1238.1 | 2230.6 | 2719.4 | 2795.2 | 2623.8 |
| 40° | 890.3 | 871.3 | 893.5 | 917.5 | 932.3 | 929.8 | 1124.4 | 2309.7 | 2909.0 | 2987.3 | 2777.9 |
| 42.5° | 858.1 | 840.8 | 860.6 | 891.1 | 893.5 | 896.0 | 1041.1 | 2385.5 | 3129.1 | 3228.8 | 3043.3 |
| 45° | 831.7 | 819.4 | 829.3 | 859.8 | 859.8 | 897.7 | 989.2 | 2449.0 | 3460.4 | 3636.8 | 3530.5 |
| 47.5° | 811.1 | 803.7 | 808.6 | 818.5 | 835.0 | 927.3 | 956.2 | 2497.6 | 4063.8 | 4410.0 | 4302.9 |
| 50° | 799.6 | 792.2 | 798.8 | 778.1 | 827.6 | 942.2 | 945.5 | 2534.7 | 4859.3 | 5401.7 | 5269.0 |
| 52.5° | 789.7 | 787.2 | 791.3 | 743.5 | 844.1 | 932.3 | 937.2 | 2485.3 | 5392.6 | 6377.7 | 6508.7 |
| 55° | 786.4 | 788.0 | 768.3 | 718.0 | 863.9 | 899.3 | 912.5 | 2131.7 | 5537.7 | 7219.3 | 8032.9 |
| 57.5° | 788.0 | 783.1 | 732.8 | 720.4 | 864.7 | 833.4 | 948.0 | 1520.8 | 5326.7 | 7585.3 | 9524.0 |
| 60° | 782.3 | 757.5 | 689.9 | 742.7 | 826.8 | 755.9 | 922.4 | 991.6 | 4770.3 | 7304.2 | 9610.6 |
| 62.5° | 756.7 | 720.4 | 652.9 | 755.1 | 759.2 | 709.7 | 837.5 | 764.1 | 4028.4 | 6702.4 | 8776.4 |
| 65° | 719.6 | 671.0 | 621.5 | 729.5 | 690.8 | 688.3 | 629.8 | 612.5 | 3239.5 | 5986.1 | 7985.1 |
| 67.5° | 658.6 | 610.0 | 598.4 | 671.0 | 621.5 | 610.0 | 506.1 | 507.8 | 2585.0 | 5222.8 | 7189.6 |
| 70° | 589.4 | 540.7 | 549.8 | 606.7 | 553.1 | 506.9 | 409.7 | 422.9 | 1961.0 | 4351.5 | 6117.2 |
| 72.5° | 544.0 | 478.9 | 479.7 | 534.2 | 486.3 | 410.5 | 337.1 | 348.7 | 1244.7 | 3279.9 | 4863.4 |
| 75° | 459.1 | 422.0 | 403.9 | 432.8 | 413.0 | 319.8 | 283.6 | 281.1 | 737.8 | 2350.9 | 3641.8 |
| 77.5° | 383.3 | 354.5 | 345.4 | 356.9 | 308.3 | 236.6 | 228.3 | 224.2 | 417.9 | 1506.0 | 2386.4 |
| 80° | 277.8 | 270.4 | 269.5 | 275.3 | 237.4 | 173.9 | 173.9 | 174.8 | 225.0 | 817.7 | 1345.3 |
| 82.5° | 176.4 | 192.9 | 170.6 | 189.6 | 161.6 | 123.6 | 115.4 | 131.1 | 129.4 | 348.7 | 567.1 |
| 85° | 73.4 | 100.6 | 94.0 | 99.7 | 76.7 | 67.6 | 72.5 | 78.3 | 75.0 | 134.4 | 220.9 |
| 87.5° | 14.0 | 16.5 | 18.1 | 17.3 | 17.3 | 21.4 | 23.9 | 28.9 | 28.9 | 38.7 | 66.8 |
| 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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| 0° | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 | 1343.6 |
| 2.5° | 1478.0 | 1501.9 | 1496.9 | 1507.7 | 1493.6 | 1498.6 | 1470.6 | 1463.1 | 1458.2 | 1459.8 |
| 5° | 1629.7 | 1678.3 | 1687.4 | 1705.5 | 1693.1 | 1693.1 | 1643.7 | 1606.6 | 1593.4 | 1583.5 |
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| 20° | 2152.3 | 2026.1 | 1941.2 | 1891.0 | 1919.8 | 2021.2 | 2147.3 | 2161.3 | 2134.1 | 2111.0 |
| 22.5° | 2134.1 | 1934.6 | 1819.2 | 1759.9 | 1787.9 | 1909.1 | 2106.1 | 2196.8 | 2178.6 | 2156.4 |
| 25° | 2089.6 | 1839.0 | 1700.5 | 1647.0 | 1677.5 | 1801.1 | 2032.7 | 2229.7 | 2230.6 | 2212.4 |
| 27.5° | 2034.4 | 1750.8 | 1617.3 | 1567.0 | 1596.7 | 1712.1 | 1961.0 | 2258.6 | 2287.4 | 2280.9 |
| 30° | 1978.3 | 1698.1 | 1577.7 | 1542.3 | 1564.5 | 1666.7 | 1887.7 | 2288.3 | 2346.0 | 2357.5 |
| 32.5° | 1952.8 | 1723.6 | 1670.9 | 1686.5 | 1657.7 | 1693.1 | 1861.3 | 2330.3 | 2416.9 | 2435.8 |
| 35° | 1986.6 | 1950.3 | 2083.8 | 2145.7 | 2043.5 | 1909.1 | 1895.1 | 2393.8 | 2516.6 | 2544.6 |
| 37.5° | 2150.6 | 2435.8 | 2635.3 | 2852.9 | 2675.7 | 2379.8 | 2062.4 | 2501.8 | 2659.2 | 2703.7 |
| 40° | 2507.5 | 2859.5 | 3219.7 | 3500.8 | 3232.9 | 2834.8 | 2380.6 | 2662.5 | 2855.4 | 2895.8 |
| 42.5° | 2843.9 | 3256.8 | 3753.1 | 4116.6 | 3768.7 | 3206.6 | 2723.5 | 2932.9 | 3114.2 | 3136.5 |
| 45° | 3173.6 | 3646.7 | 4398.5 | 4903.8 | 4431.5 | 3560.2 | 3073.8 | 3389.5 | 3526.4 | 3527.2 |
| 47.5° | 3560.2 | 4086.1 | 5208.0 | 5927.6 | 5311.0 | 3951.7 | 3402.7 | 4112.5 | 4302.9 | 4209.7 |
| 50° | 4022.6 | 4523.0 | 6041.3 | 7118.7 | 6383.4 | 4433.1 | 3820.7 | 4993.6 | 5253.3 | 5147.8 |
| 52.5° | 4641.7 | 5004.4 | 6959.6 | 8280.2 | 7552.3 | 4981.3 | 4426.5 | 6157.6 | 6243.3 | 6046.3 |
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| 57.5° | 7497.1 | 6798.9 | 9651.8 | 11350.7 | 10333.5 | 6883.0 | 7254.7 | 9228.9 | 8375.8 | 7423.7 |
| 60° | 9157.2 | 8134.3 | 11052.3 | 12974.6 | 11598.8 | 8234.8 | 9078.1 | 9509.2 | 8338.7 | 7356.1 |
| 62.5° | 8597.5 | 8474.7 | 11557.6 | 13153.5 | 12030.7 | 8900.0 | 8739.3 | 8802.8 | 7794.6 | 6906.9 |
| 65° | 7543.2 | 7817.7 | 11106.7 | 12305.2 | 11551.8 | 8304.1 | 7905.1 | 8149.9 | 7172.3 | 6277.9 |
| 67.5° | 6920.9 | 7122.8 | 10304.7 | 10947.6 | 10681.4 | 7659.5 | 7256.4 | 7079.1 | 6206.2 | 5446.2 |
| 70° | 6284.5 | 6451.8 | 9178.6 | 9243.8 | 9323.7 | 6587.9 | 5933.4 | 5405.8 | 4626.0 | 4094.3 |
| 72.5° | 5430.5 | 5439.6 | 7755.1 | 7377.5 | 7529.2 | 5155.2 | 4776.0 | 4041.6 | 3367.3 | 2885.1 |
| 75° | 4555.9 | 4307.0 | 6138.6 | 5156.9 | 5461.0 | 4010.2 | 3965.7 | 3045.8 | 2539.7 | 2144.0 |
| 77.5° | 3473.6 | 3182.6 | 4484.2 | 3391.2 | 3835.5 | 2670.8 | 2981.5 | 2065.7 | 1787.1 | 1426.9 |
| 80° | 2332.0 | 2150.6 | 2477.9 | 1914.0 | 2509.2 | 1840.7 | 1944.5 | 1170.5 | 1014.7 | 787.2 |
| 82.5° | 1229.9 | 1050.2 | 1531.6 | 1135.1 | 1513.4 | 1011.4 | 729.5 | 361.9 | 308.3 | 248.9 |
| 85° | 476.4 | 551.5 | 750.9 | 403.9 | 586.9 | 361.0 | 211.0 | 89.8 | 75.0 | 56.9 |
| 87.5° | 92.3 | 142.6 | 78.3 | 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 |

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