

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: P631797

Luminaire Tested: GWS-SA2B-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

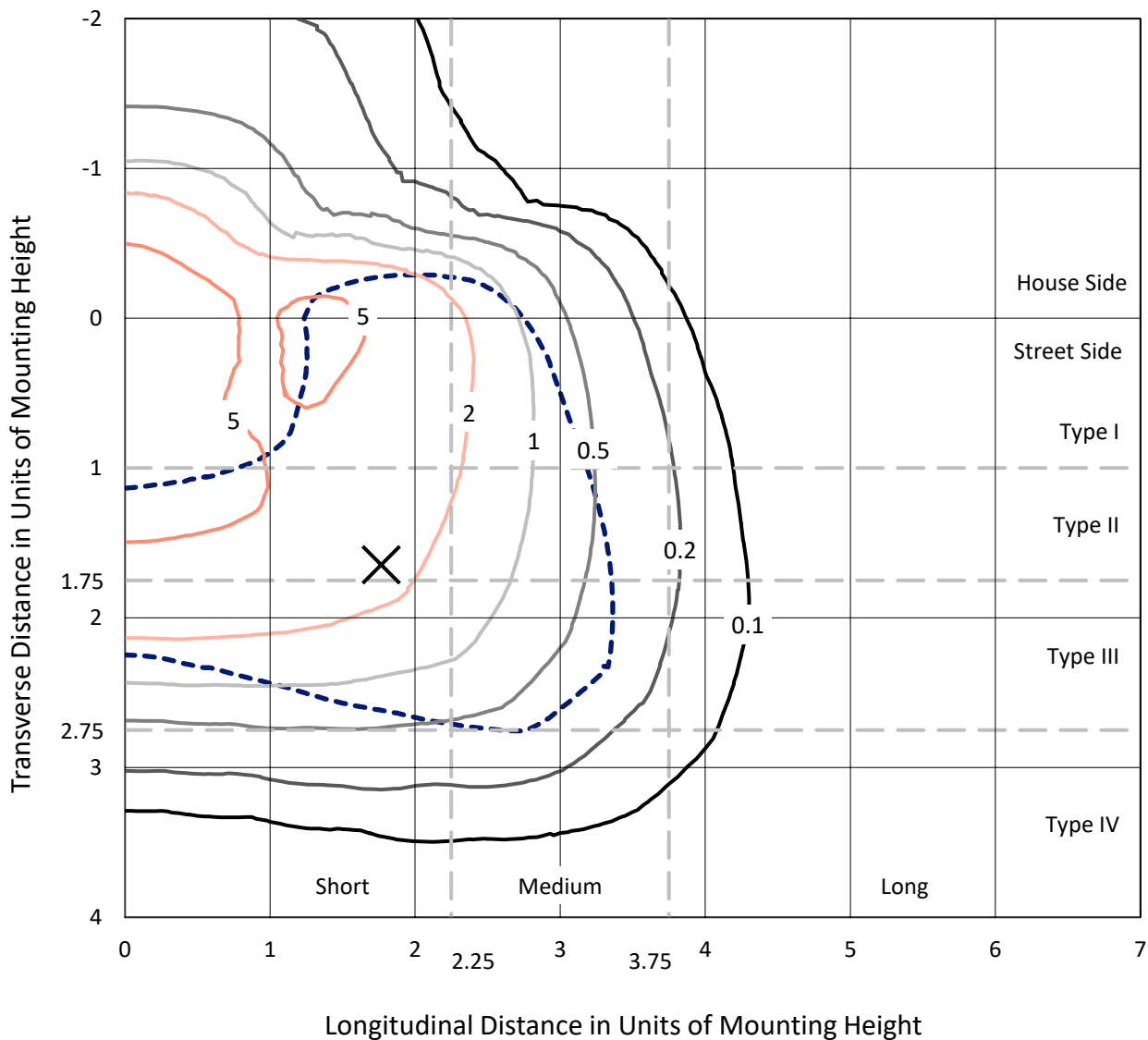
Lumens per Lamp: N/A  
Luminaire Lumens: 6748.3 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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



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 CATALOG NUMBER: GWS-SA2B-735-U-T4W-W

### Iso-Footcandle Lines of Horizontal Illumination

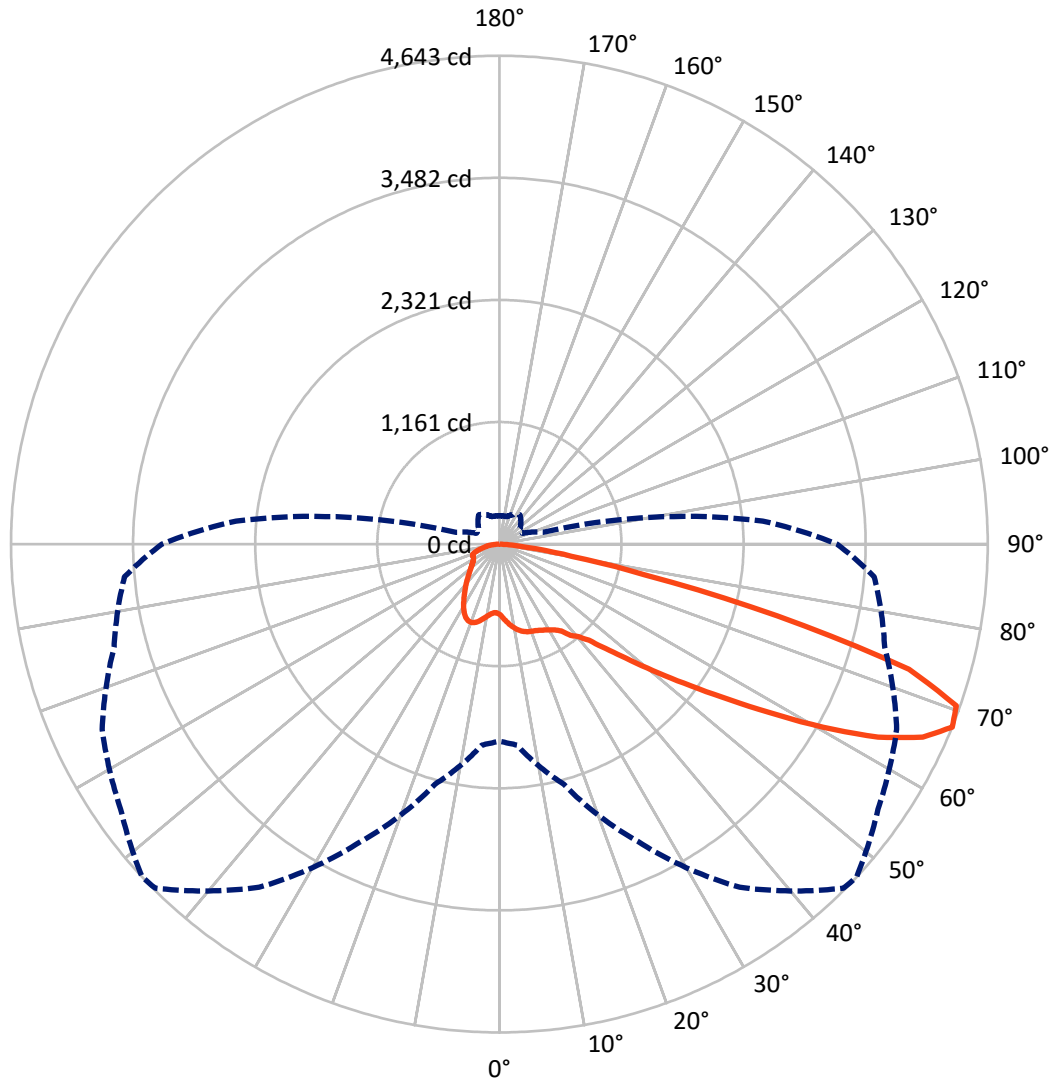
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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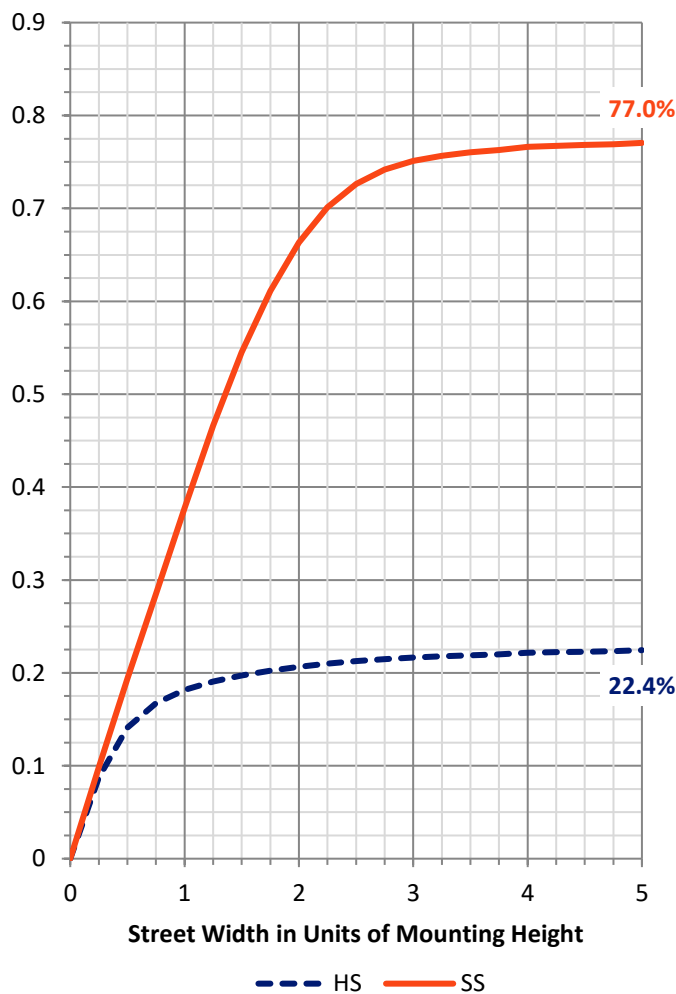
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1538.0   | 0.0    | 1538.0 |
|                    | % Fixture | 22.8     | 0.0    | 22.8   |
| <b>Street Side</b> | Lumens    | 5210.3   | 0.0    | 5210.3 |
|                    | % Fixture | 77.2     | 0.0    | 77.2   |
| <b>Total</b>       | Lumens    | 6748.3   | 0.0    | 6748.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.4   | 1.0       |
| 10°-20°   | 227.8  | 3.4       |
| 20°-30°   | 387.2  | 5.7       |
| 30°-40°   | 567.2  | 8.4       |
| 40°-50°   | 864.1  | 12.8      |
| 50°-60°   | 1546.1 | 22.9      |
| 60°-70°   | 2063.1 | 30.6      |
| 70°-80°   | 933.0  | 13.8      |
| 80°-90°   | 91.4   | 1.4       |
| 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°    | 6748.3 | 100.0     |
| 0°-180°   | 6748.3 | 100.0     |

**Coefficient of Utilization**



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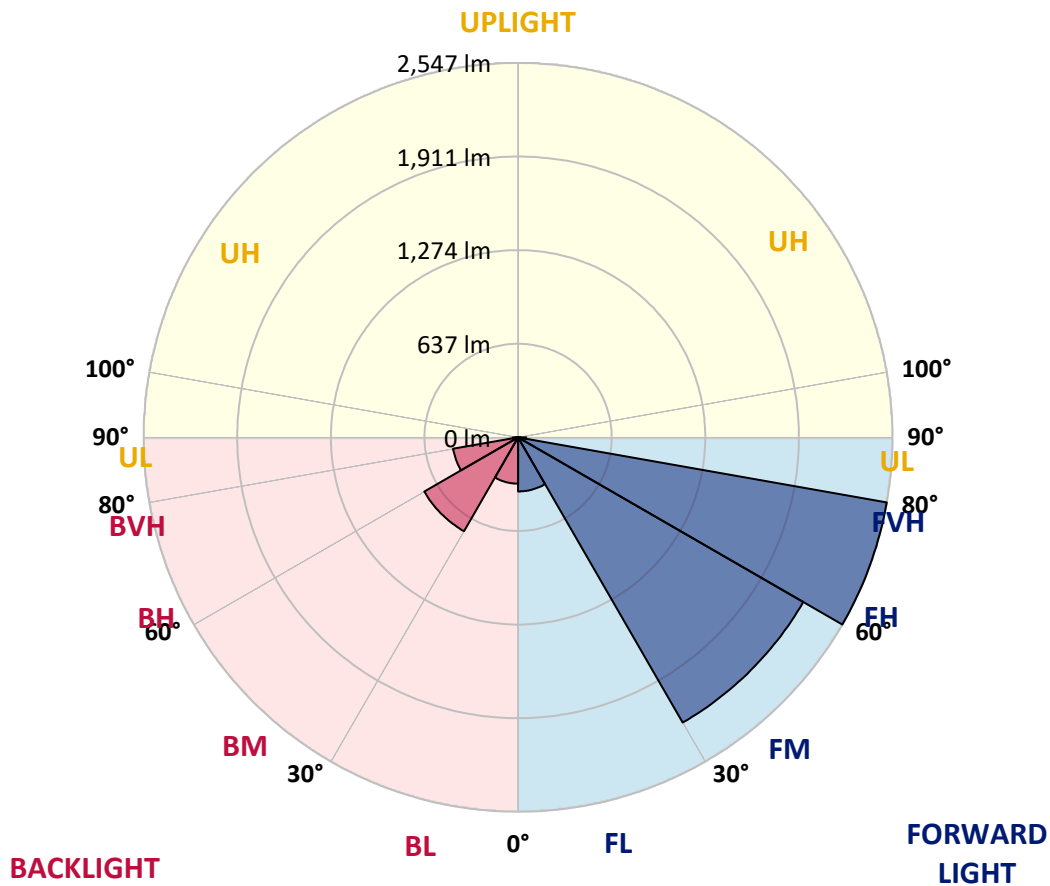
CATALOG NUMBER: GWS-SA2B-735-U-T4W-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 368.0  | 5.5       |                         |      |         |
| FM (30°-60°)   | 2240.5 | 33.2      |                         |      |         |
| FH (60°-80°)   | 2547.4 | 37.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 54.4   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 315.3  | 4.7       | B1/500                  |      |         |
| BM (30°-60°)   | 736.9  | 10.9      | B1/1000                 |      |         |
| BH (60°-80°)   | 448.7  | 6.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 37.0   | 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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 669.0  | 669.0  | 669.0  | 669.0  | 669.0  | 669.0  | 669.0  | 669.0  | 669.0  | 669.0  | 669.0  |
| 2.5°  | 713.4  | 715.8  | 715.3  | 711.4  | 709.0  | 704.6  | 705.1  | 698.2  | 688.0  | 681.2  | 673.4  |
| 5°    | 776.3  | 780.2  | 775.3  | 769.0  | 759.2  | 745.1  | 743.6  | 728.0  | 708.5  | 694.8  | 680.7  |
| 7.5°  | 831.0  | 833.4  | 827.6  | 816.8  | 802.7  | 783.6  | 780.2  | 761.7  | 737.3  | 715.8  | 695.3  |
| 10°   | 873.4  | 876.3  | 868.5  | 854.4  | 835.8  | 816.8  | 814.4  | 795.3  | 769.5  | 744.1  | 718.3  |
| 12.5° | 909.5  | 910.5  | 902.2  | 883.2  | 863.2  | 843.7  | 841.2  | 823.6  | 799.7  | 773.9  | 745.6  |
| 15°   | 930.5  | 931.0  | 920.7  | 899.8  | 880.7  | 863.7  | 862.2  | 847.1  | 825.1  | 800.7  | 770.5  |
| 17.5° | 929.0  | 930.0  | 922.7  | 904.2  | 887.6  | 877.3  | 875.9  | 866.1  | 849.0  | 827.1  | 796.8  |
| 20°   | 911.0  | 912.0  | 907.1  | 894.9  | 886.1  | 883.2  | 883.7  | 880.7  | 870.5  | 852.4  | 821.7  |
| 22.5° | 896.8  | 898.3  | 893.9  | 885.1  | 884.2  | 891.0  | 892.4  | 893.9  | 889.0  | 872.9  | 843.2  |
| 25°   | 903.7  | 906.1  | 899.3  | 887.1  | 889.0  | 904.2  | 907.1  | 912.0  | 908.1  | 894.4  | 868.5  |
| 27.5° | 951.0  | 952.5  | 934.9  | 910.0  | 904.2  | 920.3  | 924.7  | 932.5  | 929.5  | 916.8  | 896.8  |
| 30°   | 1060.8 | 1059.8 | 1022.2 | 961.2  | 936.9  | 943.2  | 946.6  | 957.8  | 958.8  | 950.5  | 931.5  |
| 32.5° | 1215.5 | 1210.6 | 1152.5 | 1055.4 | 984.7  | 969.1  | 973.0  | 988.1  | 999.3  | 990.5  | 964.7  |
| 35°   | 1378.9 | 1374.5 | 1310.6 | 1196.9 | 1073.0 | 1018.8 | 1014.4 | 1026.1 | 1043.2 | 1018.8 | 981.7  |
| 37.5° | 1534.6 | 1527.8 | 1462.4 | 1321.8 | 1181.8 | 1106.2 | 1099.8 | 1088.1 | 1077.9 | 1031.0 | 1002.7 |
| 40°   | 1707.3 | 1699.5 | 1642.4 | 1483.3 | 1301.8 | 1173.0 | 1156.9 | 1110.6 | 1101.3 | 1071.5 | 1057.4 |
| 42.5° | 1891.8 | 1891.8 | 1844.4 | 1687.8 | 1446.8 | 1268.7 | 1247.7 | 1177.9 | 1187.7 | 1168.1 | 1151.5 |
| 45°   | 2076.2 | 2081.6 | 2044.0 | 1893.7 | 1640.5 | 1449.2 | 1415.5 | 1316.5 | 1339.9 | 1331.1 | 1322.8 |
| 47.5° | 2233.3 | 2243.6 | 2236.2 | 2104.0 | 1877.6 | 1668.8 | 1617.5 | 1514.6 | 1564.8 | 1585.8 | 1609.2 |
| 50°   | 2402.6 | 2413.9 | 2406.5 | 2354.3 | 2155.2 | 1934.7 | 1888.8 | 1782.5 | 1868.8 | 1931.8 | 2008.4 |
| 52.5° | 2653.9 | 2670.0 | 2609.0 | 2589.0 | 2492.4 | 2236.7 | 2195.7 | 2074.7 | 2231.4 | 2335.8 | 2506.6 |
| 55°   | 2866.2 | 2865.7 | 2844.2 | 2890.1 | 2854.5 | 2606.1 | 2560.7 | 2450.9 | 2651.0 | 2761.8 | 3011.6 |
| 57.5° | 2964.7 | 2976.5 | 3050.1 | 3179.9 | 3251.2 | 3057.5 | 3014.0 | 2901.8 | 3101.4 | 3158.9 | 3428.8 |
| 60°   | 3015.5 | 3030.1 | 3172.6 | 3429.3 | 3621.0 | 3550.3 | 3533.2 | 3390.2 | 3502.5 | 3495.6 | 3780.6 |
| 62.5° | 2944.2 | 2973.5 | 3202.4 | 3543.4 | 3885.0 | 4045.5 | 4040.2 | 3824.0 | 3843.5 | 3776.7 | 3998.7 |
| 65°   | 2617.3 | 2649.0 | 3008.2 | 3486.4 | 4035.8 | 4422.2 | 4423.7 | 4216.8 | 4105.6 | 3913.3 | 3962.1 |
| 67.5° | 1871.8 | 1917.1 | 2361.2 | 3119.4 | 3982.6 | 4625.7 | 4642.8 | 4394.9 | 4167.0 | 3792.3 | 3577.6 |
| 70°   | 1020.3 | 1053.5 | 1401.4 | 2267.5 | 3503.4 | 4576.9 | 4608.6 | 4309.0 | 3895.7 | 3280.4 | 2754.0 |
| 72.5° | 463.5  | 474.3  | 651.9  | 1244.3 | 2393.4 | 3939.7 | 4072.4 | 3845.5 | 3199.4 | 2423.1 | 1751.2 |
| 75°   | 212.3  | 217.1  | 284.0  | 595.3  | 1250.6 | 2636.4 | 2729.6 | 2864.2 | 2226.5 | 1530.2 | 912.9  |
| 77.5° | 133.2  | 134.7  | 161.5  | 272.3  | 623.6  | 1316.0 | 1414.1 | 1705.4 | 1303.8 | 757.3  | 381.6  |
| 80°   | 78.6   | 80.0   | 100.5  | 147.4  | 292.8  | 602.1  | 695.3  | 674.3  | 612.9  | 326.9  | 173.7  |
| 82.5° | 39.5   | 41.0   | 58.1   | 83.9   | 159.6  | 239.6  | 282.0  | 283.5  | 228.4  | 177.1  | 98.1   |
| 85°   | 14.2   | 14.6   | 19.0   | 33.2   | 67.8   | 79.0   | 88.3   | 107.8  | 111.7  | 103.0  | 47.3   |
| 87.5° | 0.0    | 0.0    | 0.5    | 1.0    | 2.0    | 7.8    | 8.3    | 15.6   | 32.7   | 36.6   | 19.0   |
| 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-SA2B-735-U-T4W-W

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 669.0  | 669.0  | 669.0  | 669.0 | 669.0 | 669.0 | 669.0 | 669.0 | 669.0 | 669.0 | 669.0 |
| 2.5°  | 670.9  | 663.6  | 661.2  | 658.7 | 654.8 | 653.4 | 650.4 | 647.5 | 647.5 | 644.6 | 643.1 |
| 5°    | 674.3  | 664.6  | 658.2  | 655.3 | 652.9 | 654.3 | 654.3 | 655.3 | 658.7 | 656.8 | 657.7 |
| 7.5°  | 686.5  | 675.3  | 666.5  | 664.1 | 664.1 | 669.9 | 673.8 | 678.7 | 685.1 | 686.0 | 686.0 |
| 10°   | 708.0  | 694.8  | 685.6  | 684.1 | 686.5 | 694.8 | 700.7 | 706.5 | 714.3 | 714.8 | 715.8 |
| 12.5° | 731.4  | 718.3  | 709.0  | 710.9 | 713.4 | 724.1 | 730.5 | 735.3 | 743.1 | 743.1 | 742.6 |
| 15°   | 755.8  | 741.2  | 733.4  | 737.3 | 744.6 | 756.8 | 757.8 | 758.3 | 762.2 | 761.2 | 760.7 |
| 17.5° | 781.2  | 765.6  | 759.7  | 765.6 | 773.4 | 779.2 | 774.4 | 767.5 | 766.1 | 764.1 | 763.1 |
| 20°   | 806.1  | 790.0  | 787.5  | 791.9 | 794.4 | 789.5 | 774.4 | 761.7 | 755.8 | 752.9 | 751.9 |
| 22.5° | 827.6  | 813.9  | 812.4  | 812.4 | 800.2 | 783.1 | 760.7 | 743.6 | 735.8 | 731.9 | 730.9 |
| 25°   | 852.9  | 840.2  | 837.8  | 824.6 | 793.4 | 762.2 | 731.9 | 716.3 | 710.0 | 708.0 | 708.5 |
| 27.5° | 882.7  | 873.9  | 866.1  | 828.5 | 773.9 | 725.1 | 690.9 | 684.1 | 681.7 | 684.1 | 685.6 |
| 30°   | 919.3  | 910.5  | 892.9  | 823.6 | 742.6 | 676.8 | 644.1 | 643.6 | 650.9 | 657.3 | 658.2 |
| 32.5° | 949.0  | 945.1  | 916.4  | 808.0 | 698.7 | 623.6 | 595.8 | 597.7 | 610.9 | 619.7 | 621.2 |
| 35°   | 972.5  | 978.8  | 935.9  | 782.2 | 646.5 | 573.3 | 551.4 | 552.4 | 559.7 | 571.9 | 572.4 |
| 37.5° | 1005.7 | 1027.1 | 953.4  | 742.6 | 586.5 | 529.9 | 509.9 | 502.6 | 501.6 | 505.0 | 506.0 |
| 40°   | 1072.5 | 1104.7 | 966.1  | 685.1 | 528.4 | 490.9 | 468.4 | 454.3 | 442.1 | 432.8 | 429.9 |
| 42.5° | 1173.5 | 1210.6 | 973.4  | 615.3 | 476.7 | 452.3 | 427.0 | 408.9 | 387.4 | 367.9 | 361.1 |
| 45°   | 1358.9 | 1371.1 | 973.4  | 541.1 | 430.9 | 416.2 | 390.8 | 369.4 | 342.0 | 319.1 | 314.2 |
| 47.5° | 1655.6 | 1616.6 | 974.4  | 469.4 | 390.4 | 384.5 | 362.5 | 338.1 | 307.9 | 288.9 | 285.9 |
| 50°   | 2102.5 | 1965.4 | 994.4  | 409.9 | 356.7 | 357.7 | 341.6 | 314.7 | 287.4 | 273.2 | 270.8 |
| 52.5° | 2609.0 | 2395.3 | 1048.1 | 366.0 | 328.4 | 335.7 | 326.9 | 301.1 | 276.7 | 264.5 | 262.0 |
| 55°   | 3085.3 | 2790.5 | 1094.0 | 334.7 | 304.5 | 317.2 | 316.7 | 292.8 | 270.8 | 258.6 | 257.1 |
| 57.5° | 3490.3 | 3061.4 | 1087.1 | 309.4 | 284.0 | 300.1 | 307.4 | 287.4 | 266.9 | 256.7 | 255.2 |
| 60°   | 3742.0 | 3204.8 | 990.0  | 285.9 | 268.4 | 287.9 | 302.0 | 285.9 | 268.9 | 266.4 | 266.9 |
| 62.5° | 3851.3 | 3178.5 | 803.6  | 268.4 | 258.1 | 282.0 | 307.9 | 296.2 | 286.9 | 292.8 | 296.2 |
| 65°   | 3681.5 | 2952.1 | 591.4  | 255.2 | 248.4 | 283.5 | 321.6 | 312.3 | 286.9 | 290.8 | 292.3 |
| 67.5° | 3210.2 | 2512.9 | 427.4  | 242.0 | 236.2 | 287.9 | 341.1 | 309.8 | 270.3 | 270.3 | 267.4 |
| 70°   | 2313.3 | 1807.3 | 310.3  | 228.8 | 224.0 | 281.5 | 342.0 | 293.3 | 251.3 | 249.8 | 242.5 |
| 72.5° | 1392.1 | 1066.2 | 242.0  | 214.2 | 205.4 | 249.8 | 320.6 | 273.7 | 232.7 | 220.6 | 211.8 |
| 75°   | 723.1  | 534.3  | 203.0  | 198.1 | 176.1 | 211.8 | 293.3 | 243.5 | 199.1 | 188.3 | 183.5 |
| 77.5° | 309.8  | 249.8  | 174.2  | 176.6 | 146.4 | 178.1 | 236.7 | 210.8 | 176.6 | 163.0 | 158.6 |
| 80°   | 152.7  | 142.0  | 137.6  | 141.5 | 117.1 | 137.6 | 204.0 | 184.4 | 149.8 | 134.2 | 127.8 |
| 82.5° | 87.3   | 83.0   | 99.1   | 100.5 | 83.4  | 115.2 | 172.2 | 156.1 | 123.9 | 106.9 | 96.6  |
| 85°   | 40.5   | 43.4   | 60.0   | 60.5  | 51.7  | 79.0  | 112.7 | 87.8  | 65.9  | 54.6  | 52.2  |
| 87.5° | 16.1   | 19.0   | 26.3   | 25.9  | 15.1  | 14.6  | 9.8   | 5.4   | 4.4   | 3.9   | 3.4   |
| 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)