

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: P634247

Luminaire Tested: GWS-SA3B-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634247
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-SA3B-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9615 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

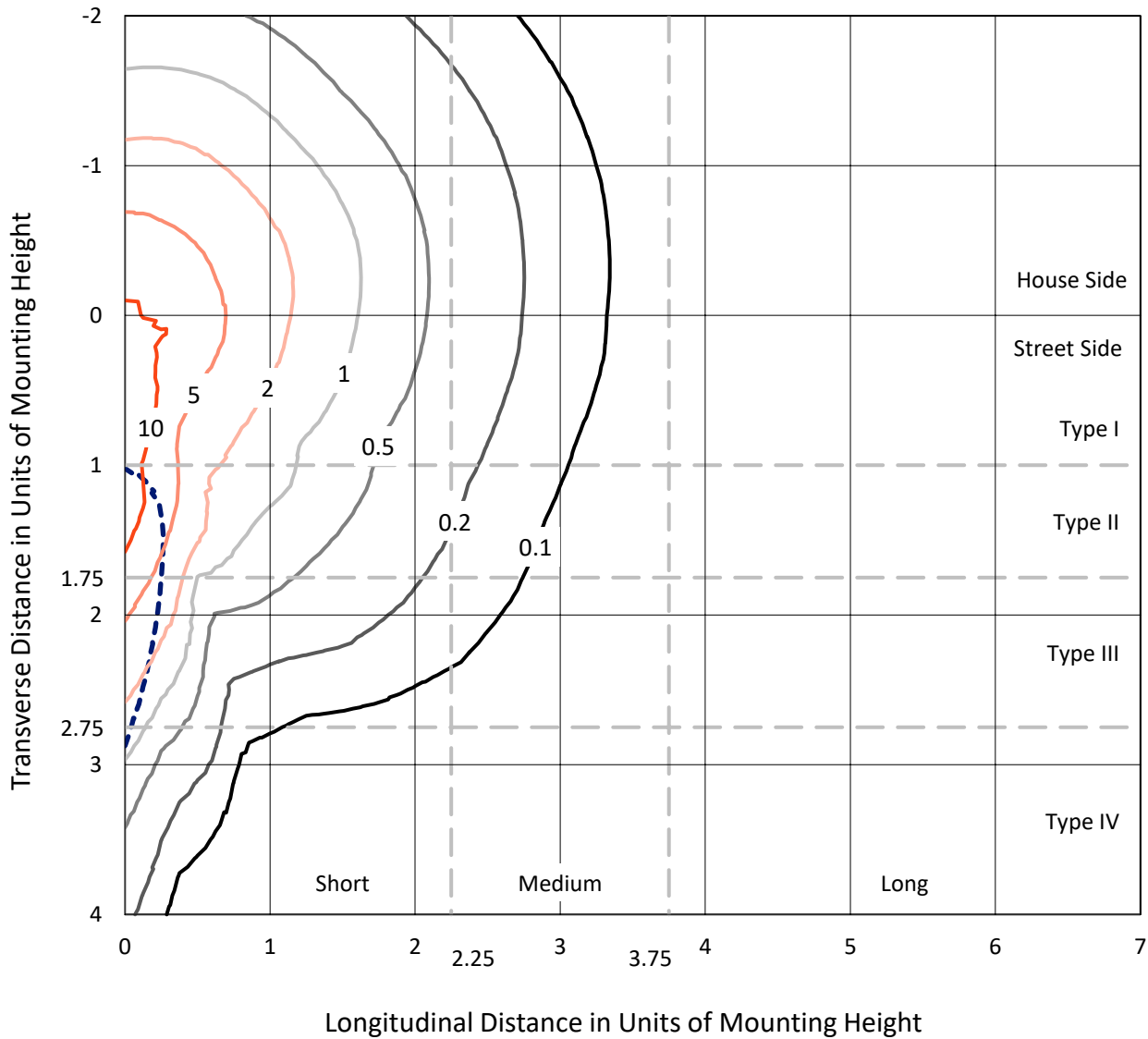
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

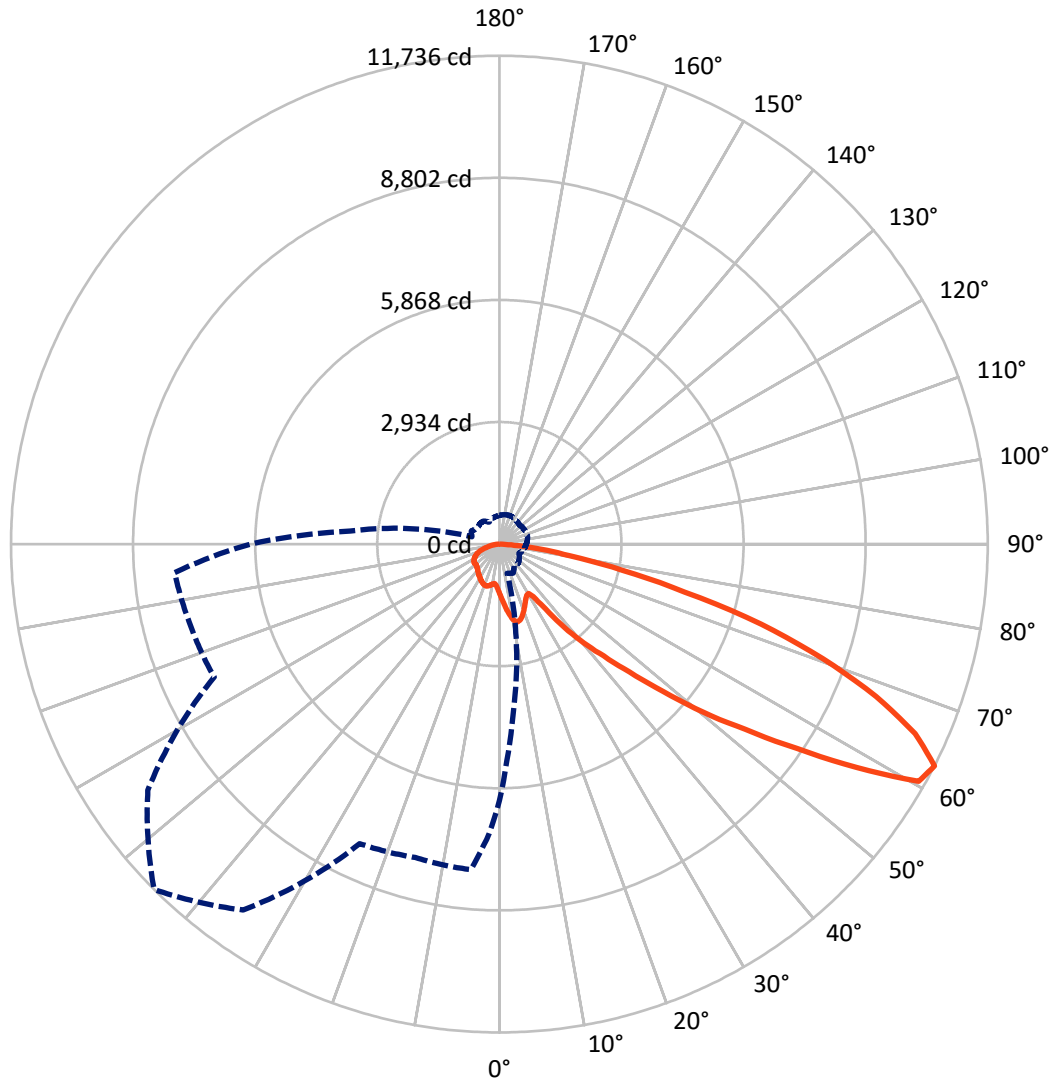
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 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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CATALOG NUMBER: GWS-SA3B-735-U-SLL-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2299.0 | 0.0 | 2299.0 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 7316.0 | 0.0 | 7316.0 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 9615.0 | 0.0 | 9615.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.1 | 1.2 |
| 10°-20° | 383.8 | 4.0 |
| 20°-30° | 604.2 | 6.3 |
| 30°-40° | 828.2 | 8.6 |
| 40°-50° | 1292.3 | 13.4 |
| 50°-60° | 2228.1 | 23.2 |
| 60°-70° | 2582.1 | 26.9 |
| 70°-80° | 1362.9 | 14.2 |
| 80°-90° | 215.3 | 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° | 9615.0 | 100.0 |
| 0°-180° | 9615.0 | 100.0 |

Coefficient of Utilization



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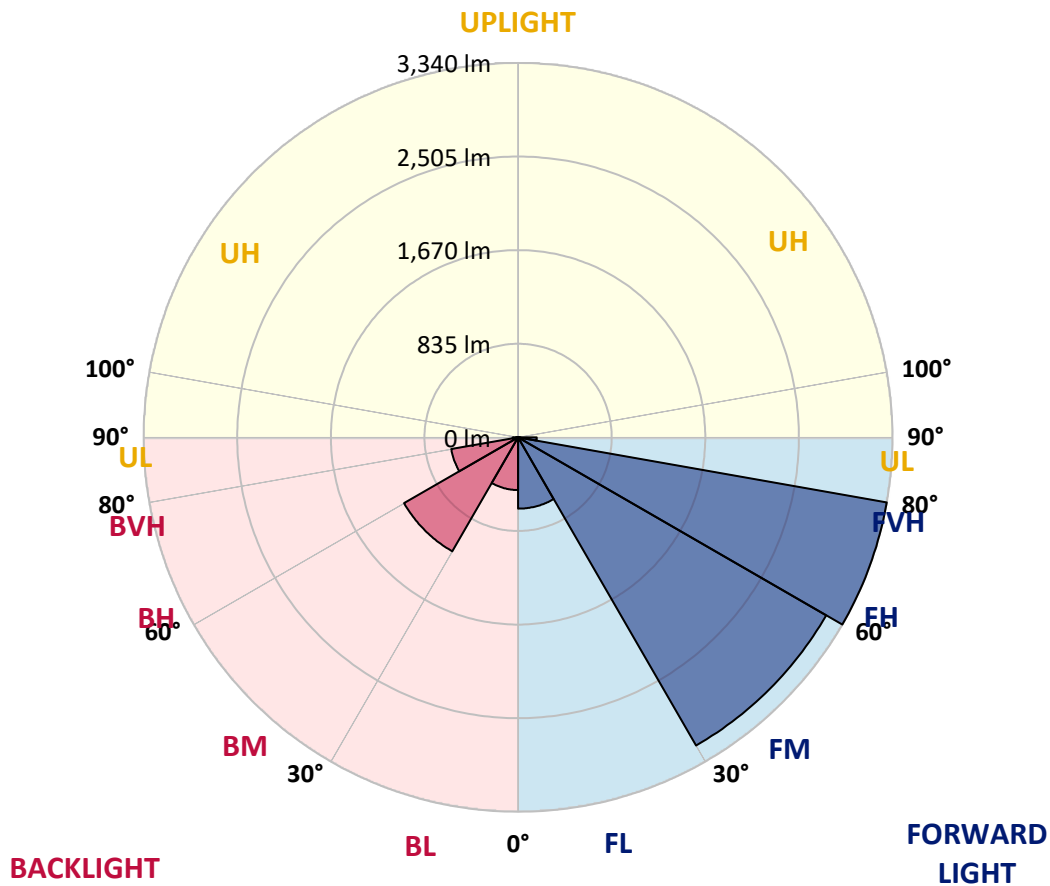
CATALOG NUMBER: GWS-SA3B-735-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 635.9 | 6.6 | | | |
| FM (30°-60°) | 3174.2 | 33.0 | | | |
| FH (60°-80°) | 3339.7 | 34.7 | | | G2/5000 |
| FVH (80°-90°) | 166.2 | 1.7 | | | G2/225 |
| BL (0°-30°) | 470.2 | 4.9 | B1/500 | | |
| BM (30°-60°) | 1174.3 | 12.2 | B2/2500 | | |
| BH (60°-80°) | 605.3 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 49.1 | 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° | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 |
| 2.5° | 1302.5 | 1297.3 | 1290.0 | 1265.0 | 1249.5 | 1231.9 | 1213.5 | 1192.2 | 1167.9 | 1151.0 | 1134.1 |
| 5° | 1412.8 | 1404.7 | 1387.1 | 1327.5 | 1286.3 | 1241.4 | 1203.9 | 1161.3 | 1119.4 | 1090.7 | 1062.0 |
| 7.5° | 1518.7 | 1508.4 | 1481.2 | 1390.0 | 1323.1 | 1258.4 | 1201.7 | 1140.0 | 1077.4 | 1034.8 | 1001.0 |
| 10° | 1624.6 | 1603.3 | 1568.7 | 1449.6 | 1361.3 | 1286.3 | 1221.6 | 1145.8 | 1062.7 | 1004.6 | 968.6 |
| 12.5° | 1705.5 | 1685.7 | 1648.2 | 1504.0 | 1399.6 | 1305.4 | 1232.6 | 1162.8 | 1092.2 | 1030.4 | 993.6 |
| 15° | 1781.3 | 1755.5 | 1712.9 | 1554.8 | 1431.2 | 1304.7 | 1210.6 | 1149.5 | 1139.2 | 1123.8 | 1076.0 |
| 17.5° | 1835.7 | 1812.2 | 1768.0 | 1595.9 | 1448.8 | 1281.9 | 1149.5 | 1113.5 | 1159.8 | 1206.9 | 1161.3 |
| 20° | 1883.5 | 1856.3 | 1811.4 | 1624.6 | 1452.5 | 1231.2 | 1075.2 | 1076.0 | 1148.8 | 1213.5 | 1202.5 |
| 22.5° | 1923.9 | 1893.8 | 1854.1 | 1657.0 | 1451.1 | 1160.5 | 1010.5 | 1054.6 | 1127.5 | 1178.2 | 1179.7 |
| 25° | 1974.0 | 1949.0 | 1915.9 | 1704.8 | 1451.1 | 1088.5 | 963.4 | 1028.9 | 1091.4 | 1134.1 | 1132.6 |
| 27.5° | 2035.0 | 2018.1 | 1990.9 | 1777.6 | 1464.3 | 1028.2 | 937.0 | 995.8 | 1045.1 | 1081.9 | 1081.1 |
| 30° | 2103.4 | 2088.0 | 2067.4 | 1854.8 | 1487.1 | 983.3 | 922.3 | 954.6 | 990.7 | 1020.1 | 1020.1 |
| 32.5° | 2173.3 | 2167.4 | 2145.3 | 1916.6 | 1469.4 | 969.3 | 909.8 | 913.4 | 932.6 | 956.8 | 954.6 |
| 35° | 2270.3 | 2264.5 | 2236.5 | 1964.4 | 1393.0 | 949.5 | 889.9 | 871.5 | 873.7 | 889.2 | 894.3 |
| 37.5° | 2412.3 | 2403.5 | 2362.3 | 2020.3 | 1277.5 | 899.5 | 857.5 | 827.4 | 820.8 | 827.4 | 836.9 |
| 40° | 2583.7 | 2570.4 | 2514.5 | 2096.0 | 1144.4 | 831.8 | 806.8 | 781.8 | 770.8 | 773.0 | 784.0 |
| 42.5° | 2798.4 | 2770.5 | 2690.3 | 2176.2 | 1012.7 | 772.2 | 750.2 | 734.7 | 722.2 | 720.7 | 742.1 |
| 45° | 3147.0 | 3070.5 | 2943.3 | 2247.6 | 901.7 | 740.6 | 699.4 | 688.4 | 678.1 | 684.0 | 709.0 |
| 47.5° | 3756.0 | 3614.8 | 3366.9 | 2308.6 | 834.0 | 741.3 | 659.0 | 647.2 | 646.5 | 658.2 | 686.2 |
| 50° | 4592.9 | 4389.2 | 4006.8 | 2349.8 | 798.7 | 750.2 | 634.7 | 615.6 | 629.5 | 641.3 | 667.8 |
| 52.5° | 5394.6 | 5083.5 | 4628.2 | 2349.0 | 783.3 | 751.6 | 641.3 | 586.2 | 629.5 | 632.5 | 657.5 |
| 55° | 6079.3 | 5515.9 | 4795.9 | 2107.8 | 761.2 | 745.8 | 667.1 | 563.4 | 621.5 | 632.5 | 652.3 |
| 57.5° | 6623.5 | 5791.0 | 4783.4 | 1702.6 | 828.1 | 713.4 | 682.5 | 558.2 | 597.9 | 634.0 | 656.8 |
| 60° | 6563.2 | 5665.2 | 4475.2 | 1045.1 | 821.5 | 656.0 | 680.3 | 567.8 | 558.2 | 614.1 | 651.6 |
| 62.5° | 6162.4 | 5214.4 | 3945.0 | 725.2 | 771.5 | 622.9 | 644.3 | 584.7 | 521.4 | 585.4 | 626.6 |
| 65° | 5601.2 | 4632.6 | 3287.5 | 556.0 | 639.1 | 624.4 | 583.2 | 572.9 | 489.1 | 539.8 | 584.0 |
| 67.5° | 4859.2 | 3911.1 | 2595.4 | 440.5 | 445.7 | 540.6 | 529.5 | 508.9 | 458.9 | 499.4 | 539.1 |
| 70° | 3653.0 | 2854.3 | 1785.7 | 354.5 | 337.6 | 451.6 | 475.8 | 457.5 | 429.5 | 441.3 | 483.2 |
| 72.5° | 2574.1 | 1863.6 | 978.2 | 280.9 | 260.4 | 347.1 | 413.3 | 410.4 | 379.5 | 388.3 | 429.5 |
| 75° | 1912.9 | 1318.7 | 611.2 | 222.1 | 211.8 | 248.6 | 346.4 | 355.2 | 329.5 | 339.8 | 371.4 |
| 77.5° | 1273.1 | 853.9 | 339.8 | 164.7 | 164.7 | 181.7 | 258.1 | 299.3 | 280.2 | 288.3 | 310.4 |
| 80° | 702.4 | 434.7 | 169.9 | 108.1 | 111.1 | 125.0 | 188.3 | 215.5 | 216.2 | 236.1 | 242.0 |
| 82.5° | 222.1 | 138.3 | 75.8 | 63.2 | 59.6 | 71.3 | 121.4 | 154.4 | 144.1 | 183.9 | 169.2 |
| 85° | 50.7 | 32.4 | 14.0 | 14.0 | 15.4 | 23.5 | 46.3 | 82.4 | 105.2 | 126.5 | 91.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 32.4 | 47.8 | 42.7 |
| 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-SA3B-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 |
| 2.5° | 1123.8 | 1109.1 | 1104.7 | 1092.2 | 1090.7 | 1078.9 | 1074.5 | 1074.5 | 1079.6 | 1079.6 | 1084.8 |
| 5° | 1050.2 | 1031.8 | 1021.5 | 1006.8 | 1003.2 | 994.3 | 988.5 | 989.2 | 995.8 | 1000.2 | 1009.0 |
| 7.5° | 985.5 | 973.0 | 965.7 | 959.0 | 957.6 | 956.1 | 949.5 | 948.7 | 950.9 | 957.6 | 964.2 |
| 10° | 958.3 | 949.5 | 951.7 | 956.8 | 964.9 | 969.3 | 963.4 | 960.5 | 958.3 | 962.7 | 968.6 |
| 12.5° | 984.8 | 975.9 | 980.4 | 989.2 | 1000.2 | 1004.6 | 1002.4 | 1001.7 | 1003.9 | 1020.8 | 1033.3 |
| 15° | 1042.9 | 1026.0 | 1020.1 | 1023.8 | 1032.6 | 1037.0 | 1034.8 | 1037.7 | 1051.7 | 1095.8 | 1127.5 |
| 17.5° | 1114.9 | 1073.8 | 1050.2 | 1043.6 | 1047.3 | 1051.0 | 1051.0 | 1058.3 | 1082.6 | 1147.3 | 1187.0 |
| 20° | 1153.9 | 1100.2 | 1060.5 | 1044.3 | 1045.8 | 1049.5 | 1049.5 | 1059.8 | 1087.0 | 1156.1 | 1181.9 |
| 22.5° | 1143.6 | 1094.4 | 1045.8 | 1028.2 | 1028.9 | 1031.8 | 1031.8 | 1040.7 | 1064.9 | 1126.0 | 1137.7 |
| 25° | 1103.2 | 1059.8 | 1012.0 | 996.5 | 998.0 | 1003.2 | 1001.7 | 1006.8 | 1025.2 | 1075.2 | 1081.9 |
| 27.5° | 1054.6 | 1016.4 | 969.3 | 957.6 | 964.2 | 974.5 | 965.7 | 966.4 | 983.3 | 1025.2 | 1026.0 |
| 30° | 1002.4 | 970.8 | 928.9 | 920.1 | 932.6 | 937.7 | 929.6 | 929.6 | 946.5 | 975.2 | 974.5 |
| 32.5° | 945.8 | 925.9 | 895.8 | 886.2 | 900.2 | 908.3 | 898.0 | 899.5 | 912.7 | 931.8 | 924.5 |
| 35° | 892.8 | 882.5 | 868.6 | 862.0 | 870.8 | 878.1 | 871.5 | 874.5 | 887.0 | 892.1 | 881.8 |
| 37.5° | 842.1 | 840.6 | 842.1 | 842.1 | 844.3 | 846.5 | 842.1 | 849.5 | 860.5 | 853.9 | 842.1 |
| 40° | 798.0 | 803.9 | 817.8 | 814.1 | 811.9 | 814.1 | 811.2 | 823.7 | 834.7 | 823.0 | 809.0 |
| 42.5° | 761.2 | 772.2 | 793.6 | 793.6 | 789.1 | 790.6 | 789.1 | 804.6 | 812.7 | 796.5 | 781.1 |
| 45° | 729.6 | 745.8 | 773.0 | 776.6 | 769.3 | 769.3 | 772.2 | 791.3 | 794.3 | 772.2 | 756.0 |
| 47.5° | 707.5 | 727.4 | 758.3 | 764.9 | 753.8 | 753.1 | 761.2 | 781.8 | 781.8 | 756.0 | 737.7 |
| 50° | 692.1 | 714.1 | 750.9 | 759.7 | 748.7 | 745.8 | 759.0 | 778.8 | 774.4 | 743.5 | 725.2 |
| 52.5° | 681.8 | 704.6 | 750.2 | 762.7 | 755.3 | 752.4 | 765.6 | 779.6 | 768.6 | 735.5 | 716.3 |
| 55° | 675.1 | 700.2 | 752.4 | 762.7 | 754.6 | 749.4 | 762.7 | 775.2 | 769.3 | 731.0 | 712.7 |
| 57.5° | 678.8 | 703.8 | 749.4 | 754.6 | 745.0 | 736.2 | 751.6 | 769.3 | 767.1 | 732.5 | 714.1 |
| 60° | 672.9 | 695.7 | 733.2 | 734.7 | 718.5 | 704.6 | 727.4 | 753.8 | 753.8 | 727.4 | 711.2 |
| 62.5° | 645.7 | 668.5 | 701.6 | 703.1 | 684.7 | 669.3 | 695.7 | 727.4 | 726.6 | 705.3 | 688.4 |
| 65° | 600.9 | 622.2 | 659.7 | 663.4 | 645.0 | 628.8 | 656.0 | 685.4 | 687.7 | 668.5 | 653.8 |
| 67.5° | 551.6 | 570.7 | 598.7 | 613.4 | 597.9 | 581.0 | 606.0 | 634.0 | 633.2 | 610.4 | 595.0 |
| 70° | 492.8 | 510.4 | 536.1 | 548.6 | 539.1 | 522.9 | 545.7 | 560.4 | 553.8 | 542.8 | 532.5 |
| 72.5° | 434.7 | 451.6 | 475.8 | 475.8 | 465.5 | 450.1 | 456.7 | 483.2 | 491.3 | 483.2 | 476.6 |
| 75° | 373.6 | 388.3 | 405.2 | 408.9 | 386.1 | 358.2 | 389.1 | 411.9 | 421.4 | 417.7 | 409.6 |
| 77.5° | 311.1 | 322.1 | 347.1 | 340.5 | 297.9 | 283.2 | 308.2 | 342.0 | 348.6 | 346.4 | 335.4 |
| 80° | 239.8 | 246.4 | 272.9 | 259.6 | 226.5 | 217.0 | 228.0 | 254.5 | 255.9 | 248.6 | 234.6 |
| 82.5° | 161.1 | 169.9 | 187.5 | 161.8 | 161.1 | 152.2 | 143.4 | 146.4 | 159.6 | 158.1 | 148.6 |
| 85° | 82.4 | 86.8 | 103.7 | 97.1 | 83.1 | 72.1 | 68.4 | 72.8 | 65.5 | 59.6 | 51.5 |
| 87.5° | 34.6 | 37.5 | 51.5 | 28.7 | 8.8 | 0.0 | 0.0 | 4.4 | 6.6 | 9.6 | 10.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P634247
 CATALOG NUMBER: GWS-SA3B-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 |
| 2.5° | 1096.6 | 1104.7 | 1124.5 | 1149.5 | 1173.8 | 1198.8 | 1226.0 | 1242.9 | 1263.5 | 1290.0 | 1290.7 |
| 5° | 1020.1 | 1038.5 | 1067.1 | 1105.4 | 1145.1 | 1190.7 | 1243.7 | 1287.8 | 1340.7 | 1382.7 | 1399.6 |
| 7.5° | 973.0 | 999.5 | 1035.5 | 1084.1 | 1136.3 | 1192.9 | 1262.0 | 1336.3 | 1423.1 | 1479.0 | 1512.1 |
| 10° | 977.4 | 1017.9 | 1053.9 | 1095.1 | 1142.2 | 1203.2 | 1292.2 | 1390.7 | 1497.4 | 1570.9 | 1612.1 |
| 12.5° | 1056.1 | 1098.8 | 1092.2 | 1089.9 | 1121.6 | 1195.8 | 1316.5 | 1445.9 | 1576.1 | 1649.6 | 1698.9 |
| 15° | 1155.4 | 1171.6 | 1109.1 | 1062.0 | 1081.1 | 1169.4 | 1329.7 | 1495.2 | 1641.5 | 1731.3 | 1779.8 |
| 17.5° | 1206.1 | 1173.8 | 1098.0 | 1027.4 | 1022.3 | 1128.9 | 1336.3 | 1545.2 | 1715.1 | 1804.8 | 1856.3 |
| 20° | 1182.6 | 1135.5 | 1071.6 | 1004.6 | 967.9 | 1073.8 | 1332.6 | 1584.9 | 1782.0 | 1882.0 | 1923.9 |
| 22.5° | 1131.9 | 1090.7 | 1040.7 | 976.7 | 923.7 | 1013.5 | 1323.1 | 1624.6 | 1841.6 | 1942.3 | 1979.1 |
| 25° | 1076.7 | 1045.8 | 1004.6 | 948.7 | 898.7 | 960.5 | 1316.5 | 1677.6 | 1910.0 | 2006.3 | 2029.9 |
| 27.5° | 1021.5 | 998.7 | 964.9 | 921.5 | 892.8 | 923.7 | 1318.7 | 1746.7 | 1998.2 | 2089.4 | 2079.9 |
| 30° | 967.1 | 947.3 | 923.7 | 904.6 | 892.1 | 914.9 | 1312.8 | 1820.3 | 2095.3 | 2179.9 | 2123.3 |
| 32.5° | 915.6 | 897.3 | 882.5 | 885.5 | 892.8 | 918.6 | 1282.6 | 1887.2 | 2184.3 | 2256.4 | 2170.3 |
| 35° | 871.5 | 852.4 | 852.4 | 862.7 | 889.9 | 906.1 | 1204.7 | 1939.4 | 2282.9 | 2354.9 | 2237.3 |
| 37.5° | 830.3 | 813.4 | 824.4 | 841.4 | 867.1 | 872.2 | 1104.7 | 1990.1 | 2426.3 | 2493.9 | 2341.0 |
| 40° | 794.3 | 777.4 | 797.2 | 818.6 | 831.8 | 829.6 | 1003.2 | 2060.7 | 2595.4 | 2665.3 | 2478.5 |
| 42.5° | 765.6 | 750.2 | 767.8 | 795.0 | 797.2 | 799.4 | 928.9 | 2128.4 | 2791.8 | 2880.8 | 2715.3 |
| 45° | 742.1 | 731.0 | 739.9 | 767.1 | 767.1 | 800.9 | 882.5 | 2185.0 | 3087.4 | 3244.8 | 3150.0 |
| 47.5° | 723.7 | 717.1 | 721.5 | 730.3 | 745.0 | 827.4 | 853.1 | 2228.4 | 3625.8 | 3934.7 | 3839.1 |
| 50° | 713.4 | 706.8 | 712.7 | 694.3 | 738.4 | 840.6 | 843.6 | 2261.5 | 4335.5 | 4819.4 | 4701.0 |
| 52.5° | 704.6 | 702.4 | 706.0 | 663.4 | 753.1 | 831.8 | 836.2 | 2217.4 | 4811.3 | 5690.2 | 5807.2 |
| 55° | 701.6 | 703.1 | 685.4 | 640.6 | 770.8 | 802.4 | 814.1 | 1901.9 | 4940.8 | 6441.1 | 7167.0 |
| 57.5° | 703.1 | 698.7 | 653.8 | 642.8 | 771.5 | 743.5 | 845.8 | 1356.9 | 4752.5 | 6767.7 | 8497.4 |
| 60° | 697.9 | 675.9 | 615.6 | 662.6 | 737.7 | 674.4 | 823.0 | 884.8 | 4256.1 | 6516.9 | 8574.7 |
| 62.5° | 675.1 | 642.8 | 582.5 | 673.7 | 677.4 | 633.2 | 747.2 | 681.8 | 3594.2 | 5980.0 | 7830.4 |
| 65° | 642.1 | 598.7 | 554.5 | 650.9 | 616.3 | 614.1 | 561.9 | 546.4 | 2890.3 | 5340.9 | 7124.4 |
| 67.5° | 587.6 | 544.2 | 533.9 | 598.7 | 554.5 | 544.2 | 451.6 | 453.0 | 2306.4 | 4659.8 | 6414.6 |
| 70° | 525.9 | 482.5 | 490.5 | 541.3 | 493.5 | 452.3 | 365.5 | 377.3 | 1749.6 | 3882.5 | 5457.8 |
| 72.5° | 485.4 | 427.3 | 428.0 | 476.6 | 433.9 | 366.3 | 300.8 | 311.1 | 1110.5 | 2926.4 | 4339.2 |
| 75° | 409.6 | 376.6 | 360.4 | 386.1 | 368.5 | 285.4 | 253.0 | 250.8 | 658.2 | 2097.5 | 3249.2 |
| 77.5° | 342.0 | 316.2 | 308.2 | 318.5 | 275.1 | 211.1 | 203.7 | 200.0 | 372.9 | 1343.7 | 2129.1 |
| 80° | 247.8 | 241.2 | 240.5 | 245.6 | 211.8 | 155.2 | 155.2 | 155.9 | 200.8 | 729.6 | 1200.3 |
| 82.5° | 157.4 | 172.1 | 152.2 | 169.2 | 144.1 | 110.3 | 103.0 | 116.9 | 115.5 | 311.1 | 506.0 |
| 85° | 65.5 | 89.7 | 83.8 | 89.0 | 68.4 | 60.3 | 64.7 | 69.9 | 66.9 | 119.9 | 197.1 |
| 87.5° | 12.5 | 14.7 | 16.2 | 15.4 | 15.4 | 19.1 | 21.3 | 25.7 | 25.7 | 34.6 | 59.6 |
| 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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| 0° | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 | 1198.8 |
| 2.5° | 1318.7 | 1340.0 | 1335.6 | 1345.1 | 1332.6 | 1337.1 | 1312.1 | 1305.4 | 1301.0 | 1302.5 |
| 5° | 1454.0 | 1497.4 | 1505.5 | 1521.7 | 1510.6 | 1510.6 | 1466.5 | 1433.4 | 1421.6 | 1412.8 |
| 7.5° | 1591.5 | 1654.0 | 1695.2 | 1699.6 | 1693.8 | 1682.0 | 1618.0 | 1558.4 | 1537.1 | 1518.7 |
| 10° | 1713.6 | 1788.6 | 1835.0 | 1857.0 | 1846.0 | 1827.6 | 1748.2 | 1666.5 | 1640.8 | 1624.6 |
| 12.5° | 1807.0 | 1873.2 | 1904.1 | 1918.8 | 1917.3 | 1910.7 | 1846.0 | 1757.7 | 1730.5 | 1705.5 |
| 15° | 1867.3 | 1900.4 | 1888.6 | 1887.9 | 1898.2 | 1924.7 | 1904.8 | 1835.7 | 1804.1 | 1781.3 |
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| 20° | 1920.3 | 1807.7 | 1732.0 | 1687.1 | 1712.9 | 1803.3 | 1915.9 | 1928.4 | 1904.1 | 1883.5 |
| 22.5° | 1904.1 | 1726.1 | 1623.1 | 1570.2 | 1595.2 | 1703.3 | 1879.1 | 1960.0 | 1943.8 | 1923.9 |
| 25° | 1864.4 | 1640.8 | 1517.2 | 1469.4 | 1496.7 | 1607.0 | 1813.6 | 1989.4 | 1990.1 | 1974.0 |
| 27.5° | 1815.1 | 1562.1 | 1443.0 | 1398.1 | 1424.6 | 1527.5 | 1749.6 | 2015.1 | 2040.9 | 2035.0 |
| 30° | 1765.1 | 1515.0 | 1407.7 | 1376.0 | 1395.9 | 1487.1 | 1684.2 | 2041.6 | 2093.1 | 2103.4 |
| 32.5° | 1742.3 | 1537.8 | 1490.8 | 1504.7 | 1479.0 | 1510.6 | 1660.7 | 2079.1 | 2156.4 | 2173.3 |
| 35° | 1772.4 | 1740.1 | 1859.2 | 1914.4 | 1823.2 | 1703.3 | 1690.8 | 2135.8 | 2245.3 | 2270.3 |
| 37.5° | 1918.8 | 2173.3 | 2351.2 | 2545.4 | 2387.3 | 2123.3 | 1840.1 | 2232.1 | 2372.6 | 2412.3 |
| 40° | 2237.3 | 2551.3 | 2872.7 | 3123.5 | 2884.5 | 2529.2 | 2124.0 | 2375.5 | 2547.6 | 2583.7 |
| 42.5° | 2537.3 | 2905.8 | 3348.5 | 3672.9 | 3362.5 | 2860.9 | 2429.9 | 2616.7 | 2778.5 | 2798.4 |
| 45° | 2831.5 | 3253.7 | 3924.4 | 4375.2 | 3953.8 | 3176.4 | 2742.5 | 3024.2 | 3146.3 | 3147.0 |
| 47.5° | 3176.4 | 3645.6 | 4646.6 | 5288.7 | 4738.5 | 3525.8 | 3036.0 | 3669.2 | 3839.1 | 3756.0 |
| 50° | 3589.0 | 4035.4 | 5390.1 | 6351.4 | 5695.4 | 3955.3 | 3408.8 | 4455.4 | 4687.1 | 4592.9 |
| 52.5° | 4141.3 | 4464.9 | 6209.4 | 7387.6 | 6738.2 | 4444.4 | 3949.4 | 5493.8 | 5570.3 | 5394.6 |
| 55° | 4918.7 | 5084.9 | 7261.1 | 8667.3 | 7902.5 | 5046.7 | 4740.0 | 6797.1 | 6583.1 | 6079.3 |
| 57.5° | 6689.0 | 6066.0 | 8611.4 | 10127.2 | 9219.7 | 6141.0 | 6472.7 | 8234.2 | 7473.0 | 6623.5 |
| 60° | 8170.2 | 7257.5 | 9861.0 | 11576.1 | 10348.6 | 7347.2 | 8099.6 | 8484.2 | 7439.9 | 6563.2 |
| 62.5° | 7670.8 | 7561.2 | 10311.8 | 11735.7 | 10734.0 | 7940.7 | 7797.3 | 7853.9 | 6954.5 | 6162.4 |
| 65° | 6730.1 | 6975.1 | 9909.5 | 10978.9 | 10306.7 | 7409.0 | 7053.0 | 7271.4 | 6399.2 | 5601.2 |
| 67.5° | 6174.9 | 6355.1 | 9193.9 | 9767.6 | 9530.0 | 6833.8 | 6474.2 | 6316.1 | 5537.2 | 4859.2 |
| 70° | 5607.1 | 5756.4 | 8189.3 | 8247.4 | 8318.7 | 5877.8 | 5293.8 | 4823.1 | 4127.4 | 3653.0 |
| 72.5° | 4845.2 | 4853.3 | 6919.2 | 6582.3 | 6717.6 | 4599.5 | 4261.2 | 3605.9 | 3004.3 | 2574.1 |
| 75° | 4064.9 | 3842.8 | 5476.9 | 4601.0 | 4872.4 | 3578.0 | 3538.3 | 2717.5 | 2265.9 | 1912.9 |
| 77.5° | 3099.2 | 2839.6 | 4000.9 | 3025.7 | 3422.1 | 2382.9 | 2660.1 | 1843.0 | 1594.5 | 1273.1 |
| 80° | 2080.6 | 1918.8 | 2210.8 | 1707.7 | 2238.7 | 1642.3 | 1734.9 | 1044.3 | 905.3 | 702.4 |
| 82.5° | 1097.3 | 937.0 | 1366.5 | 1012.7 | 1350.3 | 902.4 | 650.9 | 322.9 | 275.1 | 222.1 |
| 85° | 425.1 | 492.0 | 670.0 | 360.4 | 523.6 | 322.1 | 188.3 | 80.2 | 66.9 | 50.7 |
| 87.5° | 82.4 | 127.2 | 69.9 | 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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