

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: P632872

Luminaire Tested: GWS-SA2D-750-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632872  
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-750-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11194.1 lumens  
Efficiency: N/A  
Efficacy: 136.3 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

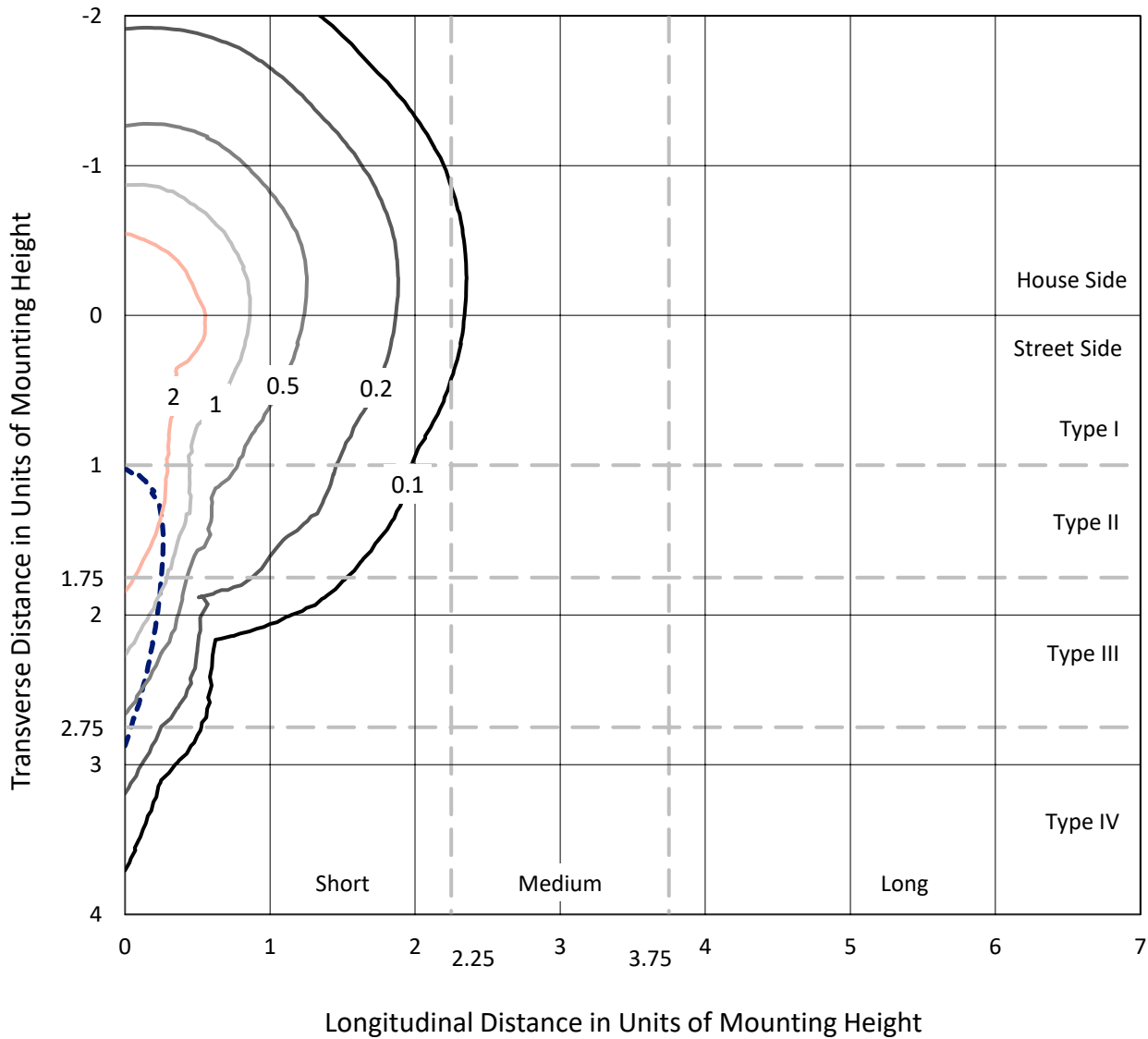


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### Iso-Footcandle Lines of Horizontal Illumination

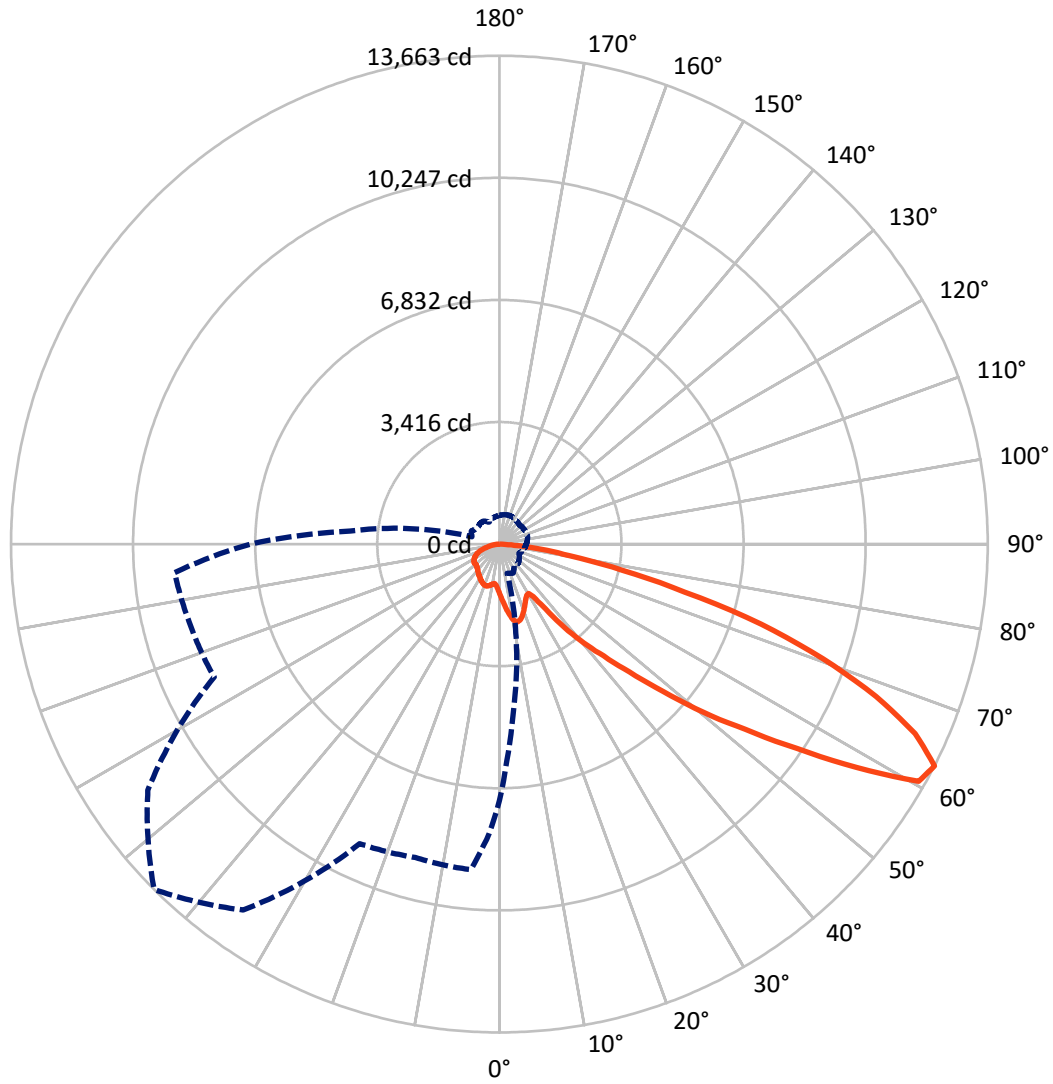
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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-SA2D-750-U-SLL-W

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2676.5   | 0.0    | 2676.5  |
|                    | % Fixture | 23.9     | 0.0    | 23.9    |
| <b>Street Side</b> | Lumens    | 8517.6   | 0.0    | 8517.6  |
|                    | % Fixture | 76.1     | 0.0    | 76.1    |
| <b>Total</b>       | Lumens    | 11194.1  | 0.0    | 11194.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 137.5   | 1.2       |
| 10°-20°   | 446.9   | 4.0       |
| 20°-30°   | 703.4   | 6.3       |
| 30°-40°   | 964.2   | 8.6       |
| 40°-50°   | 1504.5  | 13.4      |
| 50°-60°   | 2594.0  | 23.2      |
| 60°-70°   | 3006.1  | 26.9      |
| 70°-80°   | 1586.8  | 14.2      |
| 80°-90°   | 250.7   | 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°    | 11194.1 | 100.0     |
| 0°-180°   | 11194.1 | 100.0     |

**Coefficient of Utilization**



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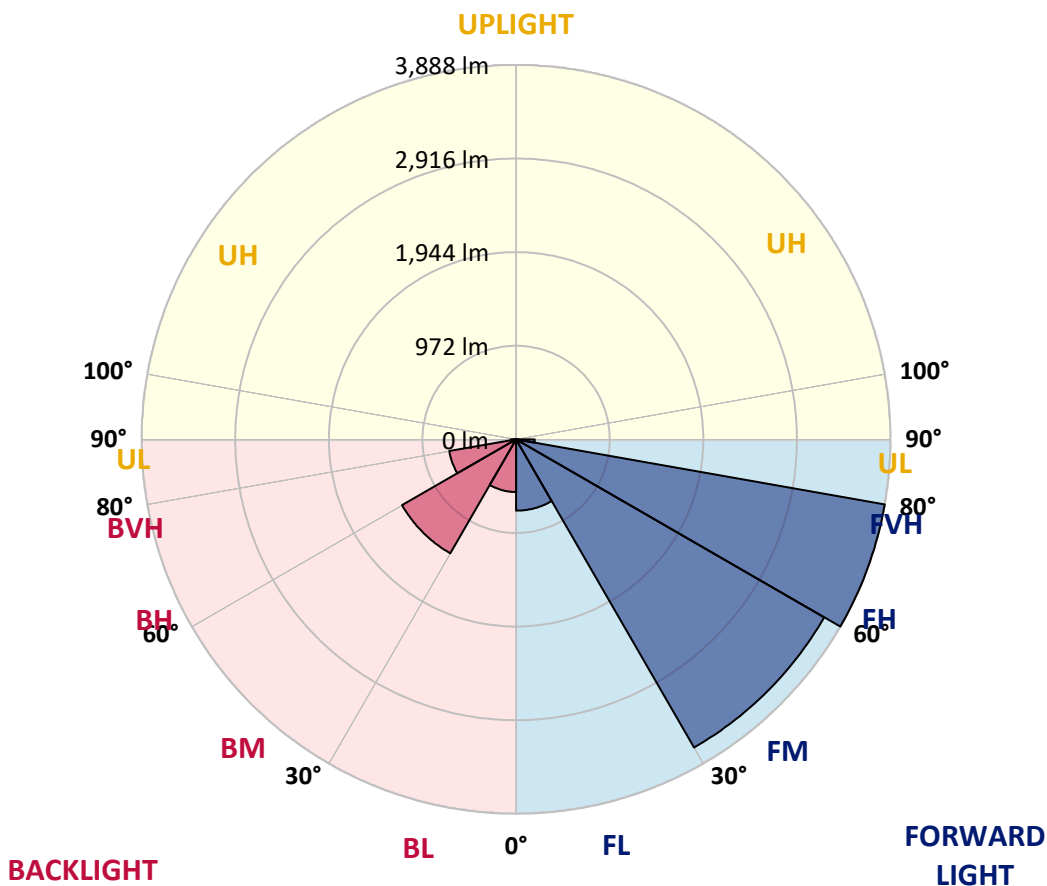
CATALOG NUMBER: GWS-SA2D-750-U-SLL-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 740.4  | 6.6       |                         |      |         |
| FM (30°-60°)   | 3695.6 | 33.0      |                         |      |         |
| FH (60°-80°)   | 3888.2 | 34.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 193.5  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 547.4  | 4.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 1367.2 | 12.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 704.7  | 6.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 57.2   | 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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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 |
| 2.5°  | 1516.4 | 1510.4 | 1501.8 | 1472.7 | 1454.8 | 1434.2 | 1412.8 | 1388.0 | 1359.7 | 1340.0 | 1320.3 |
| 5°    | 1644.8 | 1635.4 | 1614.9 | 1545.5 | 1497.6 | 1445.3 | 1401.7 | 1352.0 | 1303.2 | 1269.8 | 1236.4 |
| 7.5°  | 1768.1 | 1756.1 | 1724.5 | 1618.3 | 1540.4 | 1465.0 | 1399.1 | 1327.2 | 1254.4 | 1204.7 | 1165.3 |
| 10°   | 1891.4 | 1866.6 | 1826.4 | 1687.7 | 1584.9 | 1497.6 | 1422.2 | 1334.0 | 1237.3 | 1169.6 | 1127.7 |
| 12.5° | 1985.6 | 1962.5 | 1918.8 | 1751.0 | 1629.4 | 1519.8 | 1435.1 | 1353.7 | 1271.5 | 1199.6 | 1156.8 |
| 15°   | 2073.8 | 2043.8 | 1994.2 | 1810.1 | 1666.2 | 1519.0 | 1409.4 | 1338.3 | 1326.3 | 1308.3 | 1252.7 |
| 17.5° | 2137.2 | 2109.8 | 2058.4 | 1858.0 | 1686.8 | 1492.4 | 1338.3 | 1296.3 | 1350.3 | 1405.1 | 1352.0 |
| 20°   | 2192.8 | 2161.2 | 2108.9 | 1891.4 | 1691.1 | 1433.3 | 1251.8 | 1252.7 | 1337.4 | 1412.8 | 1400.0 |
| 22.5° | 2239.9 | 2204.8 | 2158.6 | 1929.1 | 1689.4 | 1351.1 | 1176.5 | 1227.8 | 1312.6 | 1371.7 | 1373.4 |
| 25°   | 2298.2 | 2269.0 | 2230.5 | 1984.8 | 1689.4 | 1267.2 | 1121.7 | 1197.9 | 1270.7 | 1320.3 | 1318.6 |
| 27.5° | 2369.2 | 2349.5 | 2317.8 | 2069.5 | 1704.8 | 1197.0 | 1090.9 | 1159.4 | 1216.7 | 1259.5 | 1258.7 |
| 30°   | 2448.8 | 2430.9 | 2406.9 | 2159.4 | 1731.3 | 1144.8 | 1073.7 | 1111.4 | 1153.4 | 1187.6 | 1187.6 |
| 32.5° | 2530.2 | 2523.3 | 2497.7 | 2231.4 | 1710.8 | 1128.5 | 1059.2 | 1063.5 | 1085.7 | 1114.0 | 1111.4 |
| 35°   | 2643.2 | 2636.4 | 2603.8 | 2287.0 | 1621.7 | 1105.4 | 1036.1 | 1014.6 | 1017.2 | 1035.2 | 1041.2 |
| 37.5° | 2808.5 | 2798.2 | 2750.2 | 2352.1 | 1487.3 | 1047.2 | 998.4  | 963.3  | 955.6  | 963.3  | 974.4  |
| 40°   | 3008.0 | 2992.6 | 2927.5 | 2440.3 | 1332.3 | 968.4  | 939.3  | 910.2  | 897.3  | 899.9  | 912.8  |
| 42.5° | 3258.0 | 3225.5 | 3132.1 | 2533.6 | 1179.0 | 899.1  | 873.4  | 855.4  | 840.8  | 839.1  | 863.9  |
| 45°   | 3663.9 | 3574.8 | 3426.7 | 2616.7 | 1049.8 | 862.2  | 814.3  | 801.4  | 789.5  | 796.3  | 825.4  |
| 47.5° | 4372.8 | 4208.4 | 3919.9 | 2687.7 | 971.0  | 863.1  | 767.2  | 753.5  | 752.6  | 766.3  | 798.9  |
| 50°   | 5347.2 | 5110.0 | 4664.8 | 2735.7 | 929.9  | 873.4  | 738.9  | 716.7  | 732.9  | 746.6  | 777.5  |
| 52.5° | 6280.5 | 5918.3 | 5388.3 | 2734.8 | 911.9  | 875.1  | 746.6  | 682.4  | 732.9  | 736.4  | 765.5  |
| 55°   | 7077.7 | 6421.8 | 5583.5 | 2454.0 | 886.2  | 868.2  | 776.6  | 655.9  | 723.5  | 736.4  | 759.5  |
| 57.5° | 7711.3 | 6742.0 | 5569.0 | 1982.2 | 964.1  | 830.6  | 794.6  | 649.9  | 696.1  | 738.1  | 764.6  |
| 60°   | 7641.1 | 6595.6 | 5210.2 | 1216.7 | 956.4  | 763.8  | 792.0  | 661.0  | 649.9  | 715.0  | 758.6  |
| 62.5° | 7174.4 | 6070.7 | 4592.9 | 844.3  | 898.2  | 725.2  | 750.1  | 680.7  | 607.1  | 681.6  | 729.5  |
| 65°   | 6521.1 | 5393.5 | 3827.4 | 647.3  | 744.1  | 726.9  | 679.0  | 667.0  | 569.4  | 628.5  | 679.9  |
| 67.5° | 5657.2 | 4553.5 | 3021.7 | 512.9  | 518.9  | 629.3  | 616.5  | 592.5  | 534.3  | 581.4  | 627.6  |
| 70°   | 4252.9 | 3323.1 | 2079.0 | 412.7  | 393.0  | 525.7  | 554.0  | 532.6  | 500.0  | 513.7  | 562.6  |
| 72.5° | 2996.8 | 2169.7 | 1138.8 | 327.1  | 303.1  | 404.1  | 481.2  | 477.8  | 441.8  | 452.1  | 500.0  |
| 75°   | 2227.1 | 1535.2 | 711.5  | 258.6  | 246.6  | 289.4  | 403.3  | 413.6  | 383.6  | 395.6  | 432.4  |
| 77.5° | 1482.2 | 994.1  | 395.6  | 191.8  | 191.8  | 211.5  | 300.5  | 348.5  | 326.2  | 335.6  | 361.3  |
| 80°   | 817.7  | 506.0  | 197.8  | 125.9  | 129.3  | 145.6  | 219.2  | 250.9  | 251.7  | 274.9  | 281.7  |
| 82.5° | 258.6  | 161.0  | 88.2   | 73.6   | 69.4   | 83.1   | 141.3  | 179.8  | 167.8  | 214.1  | 196.9  |
| 85°   | 59.1   | 37.7   | 16.3   | 16.3   | 18.0   | 27.4   | 53.9   | 95.9   | 122.4  | 147.3  | 107.0  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 37.7   | 55.7   | 49.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 |
| 2.5°  | 1308.3 | 1291.2 | 1286.1 | 1271.5 | 1269.8 | 1256.1 | 1251.0 | 1251.0 | 1257.0 | 1257.0 | 1263.0 |
| 5°    | 1222.7 | 1201.3 | 1189.3 | 1172.2 | 1167.9 | 1157.6 | 1150.8 | 1151.6 | 1159.4 | 1164.5 | 1174.8 |
| 7.5°  | 1147.4 | 1132.8 | 1124.2 | 1116.5 | 1114.8 | 1113.1 | 1105.4 | 1104.6 | 1107.1 | 1114.8 | 1122.5 |
| 10°   | 1115.7 | 1105.4 | 1108.0 | 1114.0 | 1123.4 | 1128.5 | 1121.7 | 1118.3 | 1115.7 | 1120.8 | 1127.7 |
| 12.5° | 1146.5 | 1136.2 | 1141.4 | 1151.6 | 1164.5 | 1169.6 | 1167.1 | 1166.2 | 1168.8 | 1188.5 | 1203.0 |
| 15°   | 1214.1 | 1194.5 | 1187.6 | 1191.9 | 1202.2 | 1207.3 | 1204.7 | 1208.2 | 1224.4 | 1275.8 | 1312.6 |
| 17.5° | 1298.1 | 1250.1 | 1222.7 | 1215.0 | 1219.3 | 1223.6 | 1223.6 | 1232.1 | 1260.4 | 1335.7 | 1382.0 |
| 20°   | 1343.4 | 1280.9 | 1234.7 | 1215.9 | 1217.6 | 1221.9 | 1221.9 | 1233.8 | 1265.5 | 1346.0 | 1376.0 |
| 22.5° | 1331.5 | 1274.1 | 1217.6 | 1197.0 | 1197.9 | 1201.3 | 1201.3 | 1211.6 | 1239.8 | 1310.9 | 1324.6 |
| 25°   | 1284.4 | 1233.8 | 1178.2 | 1160.2 | 1161.9 | 1167.9 | 1166.2 | 1172.2 | 1193.6 | 1251.8 | 1259.5 |
| 27.5° | 1227.8 | 1183.3 | 1128.5 | 1114.8 | 1122.5 | 1134.5 | 1124.2 | 1125.1 | 1144.8 | 1193.6 | 1194.5 |
| 30°   | 1167.1 | 1130.2 | 1081.4 | 1071.2 | 1085.7 | 1091.7 | 1082.3 | 1082.3 | 1102.0 | 1135.4 | 1134.5 |
| 32.5° | 1101.1 | 1078.0 | 1042.9 | 1031.8 | 1048.0 | 1057.5 | 1045.5 | 1047.2 | 1062.6 | 1084.9 | 1076.3 |
| 35°   | 1039.5 | 1027.5 | 1011.2 | 1003.5 | 1013.8 | 1022.4 | 1014.6 | 1018.1 | 1032.6 | 1038.6 | 1026.6 |
| 37.5° | 980.4  | 978.7  | 980.4  | 980.4  | 983.0  | 985.5  | 980.4  | 989.0  | 1001.8 | 994.1  | 980.4  |
| 40°   | 929.0  | 935.9  | 952.1  | 947.9  | 945.3  | 947.9  | 944.4  | 959.0  | 971.8  | 958.1  | 941.9  |
| 42.5° | 886.2  | 899.1  | 923.9  | 923.9  | 918.7  | 920.5  | 918.7  | 936.7  | 946.1  | 927.3  | 909.3  |
| 45°   | 849.4  | 868.2  | 899.9  | 904.2  | 895.6  | 895.6  | 899.1  | 921.3  | 924.7  | 899.1  | 880.2  |
| 47.5° | 823.7  | 846.8  | 882.8  | 890.5  | 877.6  | 876.8  | 886.2  | 910.2  | 910.2  | 880.2  | 858.8  |
| 50°   | 805.7  | 831.4  | 874.2  | 884.5  | 871.7  | 868.2  | 883.6  | 906.8  | 901.6  | 865.7  | 844.3  |
| 52.5° | 793.7  | 820.3  | 873.4  | 887.9  | 879.4  | 875.9  | 891.3  | 907.6  | 894.8  | 856.2  | 834.0  |
| 55°   | 786.0  | 815.1  | 875.9  | 887.9  | 878.5  | 872.5  | 887.9  | 902.5  | 895.6  | 851.1  | 829.7  |
| 57.5° | 790.3  | 819.4  | 872.5  | 878.5  | 867.4  | 857.1  | 875.1  | 895.6  | 893.1  | 852.8  | 831.4  |
| 60°   | 783.5  | 810.0  | 853.7  | 855.4  | 836.5  | 820.3  | 846.8  | 877.6  | 877.6  | 846.8  | 828.0  |
| 62.5° | 751.8  | 778.3  | 816.9  | 818.6  | 797.2  | 779.2  | 810.0  | 846.8  | 846.0  | 821.1  | 801.4  |
| 65°   | 699.5  | 724.4  | 768.0  | 772.3  | 750.9  | 732.1  | 763.8  | 798.0  | 800.6  | 778.3  | 761.2  |
| 67.5° | 642.2  | 664.4  | 697.0  | 714.1  | 696.1  | 676.4  | 705.5  | 738.1  | 737.2  | 710.7  | 692.7  |
| 70°   | 573.7  | 594.2  | 624.2  | 638.8  | 627.6  | 608.8  | 635.3  | 652.5  | 644.7  | 631.9  | 619.9  |
| 72.5° | 506.0  | 525.7  | 554.0  | 554.0  | 542.0  | 524.0  | 531.7  | 562.6  | 572.0  | 562.6  | 554.8  |
| 75°   | 435.0  | 452.1  | 471.8  | 476.1  | 449.5  | 417.0  | 453.0  | 479.5  | 490.6  | 486.3  | 476.9  |
| 77.5° | 362.2  | 375.0  | 404.1  | 396.4  | 346.8  | 329.7  | 358.8  | 398.2  | 405.9  | 403.3  | 390.4  |
| 80°   | 279.1  | 286.8  | 317.7  | 302.3  | 263.7  | 252.6  | 265.4  | 296.3  | 298.0  | 289.4  | 273.1  |
| 82.5° | 187.5  | 197.8  | 218.3  | 188.4  | 187.5  | 177.2  | 167.0  | 170.4  | 185.8  | 184.1  | 173.0  |
| 85°   | 95.9   | 101.0  | 120.7  | 113.0  | 96.8   | 83.9   | 79.6   | 84.8   | 76.2   | 69.4   | 59.9   |
| 87.5° | 40.2   | 43.7   | 59.9   | 33.4   | 10.3   | 0.0    | 0.0    | 5.1    | 7.7    | 11.1   | 12.0   |
| 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-SA2D-750-U-SLL-W

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 |
| 2.5°  | 1276.7 | 1286.1 | 1309.2 | 1338.3 | 1366.6 | 1395.7 | 1427.4 | 1447.0 | 1471.0 | 1501.8 | 1502.7 |
| 5°    | 1187.6 | 1209.0 | 1242.4 | 1286.9 | 1333.2 | 1386.3 | 1447.9 | 1499.3 | 1560.9 | 1609.7 | 1629.4 |
| 7.5°  | 1132.8 | 1163.6 | 1205.6 | 1262.1 | 1322.9 | 1388.8 | 1469.3 | 1555.8 | 1656.8 | 1721.9 | 1760.4 |
| 10°   | 1137.9 | 1185.0 | 1227.0 | 1274.9 | 1329.7 | 1400.8 | 1504.4 | 1619.2 | 1743.3 | 1828.9 | 1876.9 |
| 12.5° | 1229.6 | 1279.2 | 1271.5 | 1268.9 | 1305.8 | 1392.2 | 1532.7 | 1683.4 | 1834.9 | 1920.5 | 1977.9 |
| 15°   | 1345.2 | 1364.0 | 1291.2 | 1236.4 | 1258.7 | 1361.4 | 1548.1 | 1740.7 | 1911.1 | 2015.6 | 2072.1 |
| 17.5° | 1404.2 | 1366.6 | 1278.4 | 1196.2 | 1190.2 | 1314.3 | 1555.8 | 1799.0 | 1996.8 | 2101.2 | 2161.2 |
| 20°   | 1376.8 | 1322.0 | 1247.5 | 1169.6 | 1126.8 | 1250.1 | 1551.5 | 1845.2 | 2074.7 | 2191.1 | 2239.9 |
| 22.5° | 1317.8 | 1269.8 | 1211.6 | 1137.1 | 1075.4 | 1179.9 | 1540.4 | 1891.4 | 2144.0 | 2261.3 | 2304.1 |
| 25°   | 1253.5 | 1217.6 | 1169.6 | 1104.6 | 1046.3 | 1118.3 | 1532.7 | 1953.1 | 2223.7 | 2335.8 | 2363.2 |
| 27.5° | 1189.3 | 1162.8 | 1123.4 | 1072.9 | 1039.5 | 1075.4 | 1535.2 | 2033.6 | 2326.4 | 2432.6 | 2421.4 |
| 30°   | 1126.0 | 1102.8 | 1075.4 | 1053.2 | 1038.6 | 1065.2 | 1528.4 | 2119.2 | 2439.4 | 2537.9 | 2472.0 |
| 32.5° | 1066.0 | 1044.6 | 1027.5 | 1030.9 | 1039.5 | 1069.4 | 1493.3 | 2197.1 | 2543.0 | 2626.9 | 2526.8 |
| 35°   | 1014.6 | 992.4  | 992.4  | 1004.4 | 1036.1 | 1054.9 | 1402.5 | 2257.9 | 2657.8 | 2741.7 | 2604.7 |
| 37.5° | 966.7  | 947.0  | 959.8  | 979.5  | 1009.5 | 1015.5 | 1286.1 | 2317.0 | 2824.7 | 2903.5 | 2725.4 |
| 40°   | 924.7  | 905.0  | 928.2  | 953.0  | 968.4  | 965.8  | 1167.9 | 2399.2 | 3021.7 | 3103.0 | 2885.5 |
| 42.5° | 891.3  | 873.4  | 893.9  | 925.6  | 928.2  | 930.7  | 1081.4 | 2478.0 | 3250.3 | 3353.9 | 3161.2 |
| 45°   | 863.9  | 851.1  | 861.4  | 893.1  | 893.1  | 932.4  | 1027.5 | 2543.9 | 3594.5 | 3777.7 | 3667.3 |
| 47.5° | 842.5  | 834.8  | 840.0  | 850.2  | 867.4  | 963.3  | 993.2  | 2594.4 | 4221.3 | 4580.9 | 4469.6 |
| 50°   | 830.6  | 822.8  | 829.7  | 808.3  | 859.7  | 978.7  | 982.1  | 2632.9 | 5047.5 | 5610.9 | 5473.1 |
| 52.5° | 820.3  | 817.7  | 822.0  | 772.3  | 876.8  | 968.4  | 973.5  | 2581.6 | 5601.5 | 6624.7 | 6760.9 |
| 55°   | 816.9  | 818.6  | 798.0  | 745.8  | 897.3  | 934.2  | 947.9  | 2214.2 | 5752.2 | 7499.0 | 8344.1 |
| 57.5° | 818.6  | 813.4  | 761.2  | 748.4  | 898.2  | 865.7  | 984.7  | 1579.8 | 5533.0 | 7879.1 | 9893.0 |
| 60°   | 812.6  | 786.9  | 716.7  | 771.5  | 858.8  | 785.2  | 958.1  | 1030.1 | 4955.1 | 7587.1 | 9982.9 |
| 62.5° | 786.0  | 748.4  | 678.1  | 784.3  | 788.6  | 737.2  | 869.9  | 793.7  | 4184.4 | 6962.1 | 9116.4 |
| 65°   | 747.5  | 697.0  | 645.6  | 757.8  | 717.5  | 715.0  | 654.2  | 636.2  | 3365.0 | 6218.0 | 8294.4 |
| 67.5° | 684.1  | 633.6  | 621.6  | 697.0  | 645.6  | 633.6  | 525.7  | 527.4  | 2685.2 | 5425.1 | 7468.1 |
| 70°   | 612.2  | 561.7  | 571.1  | 630.2  | 574.5  | 526.6  | 425.6  | 439.3  | 2037.0 | 4520.1 | 6354.2 |
| 72.5° | 565.1  | 497.5  | 498.3  | 554.8  | 505.2  | 426.4  | 350.2  | 362.2  | 1292.9 | 3407.0 | 5051.8 |
| 75°   | 476.9  | 438.4  | 419.6  | 449.5  | 429.0  | 332.2  | 294.5  | 292.0  | 766.3  | 2442.0 | 3782.9 |
| 77.5° | 398.2  | 368.2  | 358.8  | 370.8  | 320.2  | 245.7  | 237.2  | 232.9  | 434.1  | 1564.4 | 2478.8 |
| 80°   | 288.6  | 280.8  | 280.0  | 286.0  | 246.6  | 180.7  | 180.7  | 181.5  | 233.8  | 849.4  | 1397.4 |
| 82.5° | 183.2  | 200.4  | 177.2  | 196.9  | 167.8  | 128.4  | 119.9  | 136.1  | 134.4  | 362.2  | 589.1  |
| 85°   | 76.2   | 104.5  | 97.6   | 103.6  | 79.6   | 70.2   | 75.3   | 81.3   | 77.9   | 139.6  | 229.5  |
| 87.5° | 14.6   | 17.1   | 18.8   | 18.0   | 18.0   | 22.3   | 24.8   | 30.0   | 30.0   | 40.2   | 69.4   |
| 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°    | 1395.7 | 1395.7 | 1395.7  | 1395.7  | 1395.7  | 1395.7 | 1395.7 | 1395.7 | 1395.7 | 1395.7 |
| 2.5°  | 1535.2 | 1560.1 | 1554.9  | 1566.1  | 1551.5  | 1556.6 | 1527.5 | 1519.8 | 1514.7 | 1516.4 |
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| 17.5° | 2219.4 | 2182.6 | 2121.8  | 2093.5  | 2119.2  | 2192.0 | 2245.1 | 2199.7 | 2166.3 | 2137.2 |
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| 22.5° | 2216.8 | 2009.6 | 1889.7  | 1828.1  | 1857.2  | 1983.1 | 2187.7 | 2281.9 | 2263.0 | 2239.9 |
| 25°   | 2170.6 | 1910.3 | 1766.4  | 1710.8  | 1742.4  | 1870.9 | 2111.5 | 2316.1 | 2317.0 | 2298.2 |
| 27.5° | 2113.2 | 1818.7 | 1679.9  | 1627.7  | 1658.5  | 1778.4 | 2037.0 | 2346.1 | 2376.1 | 2369.2 |
| 30°   | 2055.0 | 1763.9 | 1638.8  | 1602.0  | 1625.1  | 1731.3 | 1960.8 | 2376.9 | 2436.9 | 2448.8 |
| 32.5° | 2028.4 | 1790.4 | 1735.6  | 1751.9  | 1721.9  | 1758.7 | 1933.4 | 2420.6 | 2510.5 | 2530.2 |
| 35°   | 2063.5 | 2025.9 | 2164.6  | 2228.8  | 2122.6  | 1983.1 | 1968.5 | 2486.5 | 2614.1 | 2643.2 |
| 37.5° | 2233.9 | 2530.2 | 2737.4  | 2963.4  | 2779.4  | 2472.0 | 2142.3 | 2598.7 | 2762.2 | 2808.5 |
| 40°   | 2604.7 | 2970.3 | 3344.5  | 3636.5  | 3358.2  | 2944.6 | 2472.8 | 2765.7 | 2966.0 | 3008.0 |
| 42.5° | 2954.0 | 3383.0 | 3898.5  | 4276.1  | 3914.7  | 3330.8 | 2829.0 | 3046.5 | 3234.9 | 3258.0 |
| 45°   | 3296.5 | 3788.0 | 4568.9  | 5093.8  | 4603.2  | 3698.1 | 3192.9 | 3520.9 | 3663.0 | 3663.9 |
| 47.5° | 3698.1 | 4244.4 | 5409.7  | 6157.2  | 5516.8  | 4104.8 | 3534.6 | 4271.8 | 4469.6 | 4372.8 |
| 50°   | 4178.5 | 4698.2 | 6275.4  | 7394.5  | 6630.7  | 4604.9 | 3968.7 | 5187.1 | 5456.8 | 5347.2 |
| 52.5° | 4821.5 | 5198.2 | 7229.2  | 8600.9  | 7844.9  | 5174.3 | 4598.0 | 6396.1 | 6485.2 | 6280.5 |
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| 60°   | 9512.0 | 8449.4 | 11480.5 | 13477.2 | 12048.2 | 8553.8 | 9429.8 | 9877.6 | 8661.7 | 7641.1 |
| 62.5° | 8930.6 | 8803.0 | 12005.4 | 13663.0 | 12496.8 | 9244.8 | 9077.9 | 9143.8 | 8096.6 | 7174.4 |
| 65°   | 7835.5 | 8120.6 | 11537.0 | 12782.0 | 11999.4 | 8625.8 | 8211.3 | 8465.7 | 7450.2 | 6521.1 |
| 67.5° | 7189.0 | 7398.8 | 10703.9 | 11371.7 | 11095.2 | 7956.2 | 7537.5 | 7353.4 | 6446.6 | 5657.2 |
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| 72.5° | 5640.9 | 5650.3 | 8055.5  | 7663.4  | 7820.9  | 5354.9 | 4961.1 | 4198.1 | 3497.7 | 2996.8 |
| 75°   | 4732.4 | 4473.9 | 6376.4  | 5356.6  | 5672.6  | 4165.6 | 4119.4 | 3163.8 | 2638.1 | 2227.1 |
| 77.5° | 3608.2 | 3305.9 | 4657.9  | 3522.6  | 3984.1  | 2774.2 | 3097.0 | 2145.7 | 1856.3 | 1482.2 |
| 80°   | 2422.3 | 2233.9 | 2573.9  | 1988.2  | 2606.4  | 1912.0 | 2019.9 | 1215.9 | 1054.0 | 817.7  |
| 82.5° | 1277.5 | 1090.9 | 1590.9  | 1179.0  | 1572.1  | 1050.6 | 757.8  | 375.9  | 320.2  | 258.6  |
| 85°   | 494.9  | 572.8  | 780.0   | 419.6   | 609.6   | 375.0  | 219.2  | 93.3   | 77.9   | 59.1   |
| 87.5° | 95.9   | 148.1  | 81.3    | 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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