

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: P632549

Luminaire Tested: GWS-SA2C-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-830-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

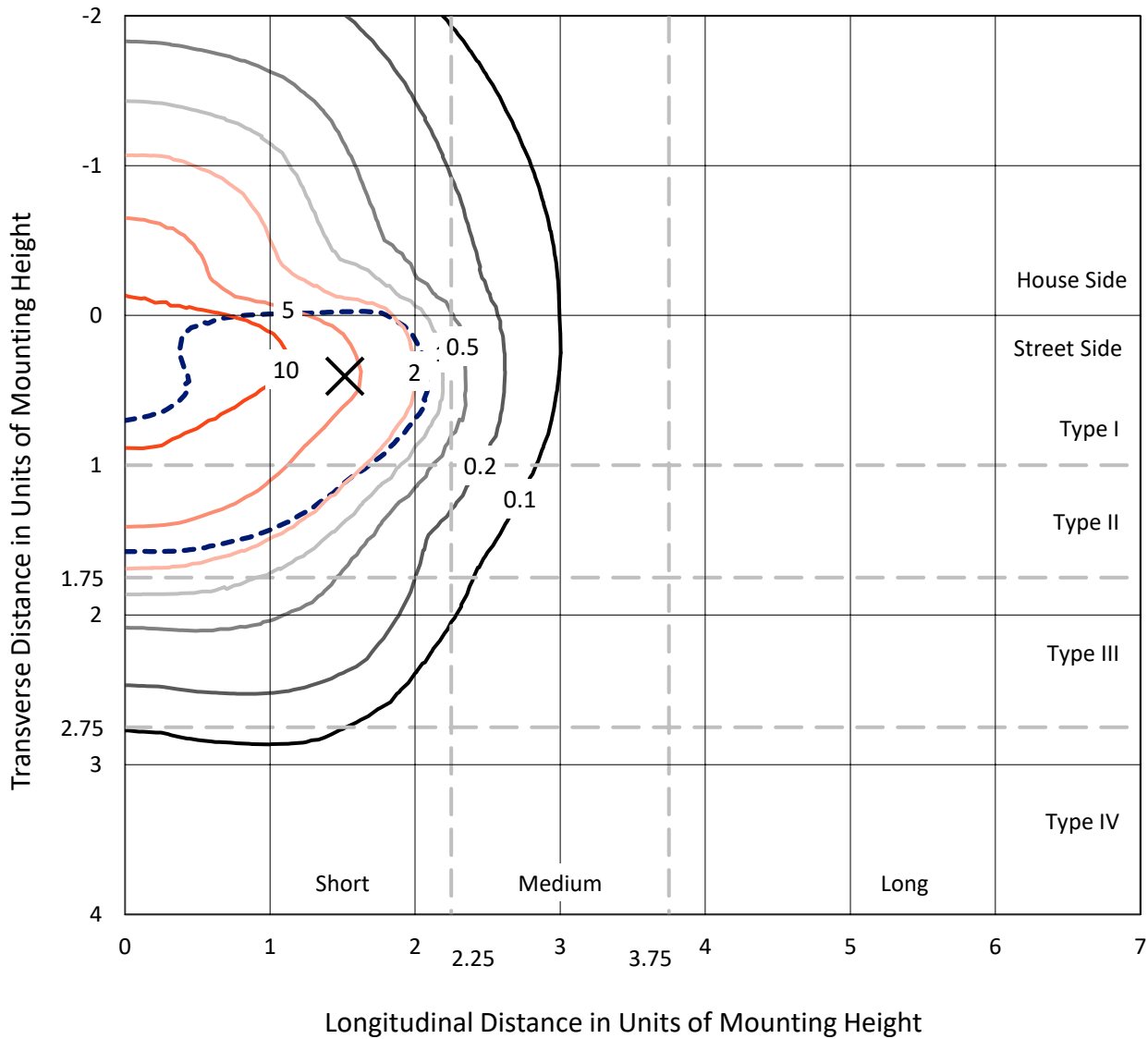
Lumens per Lamp: N/A  
Luminaire Lumens: 6129.8 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P632549  
 CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

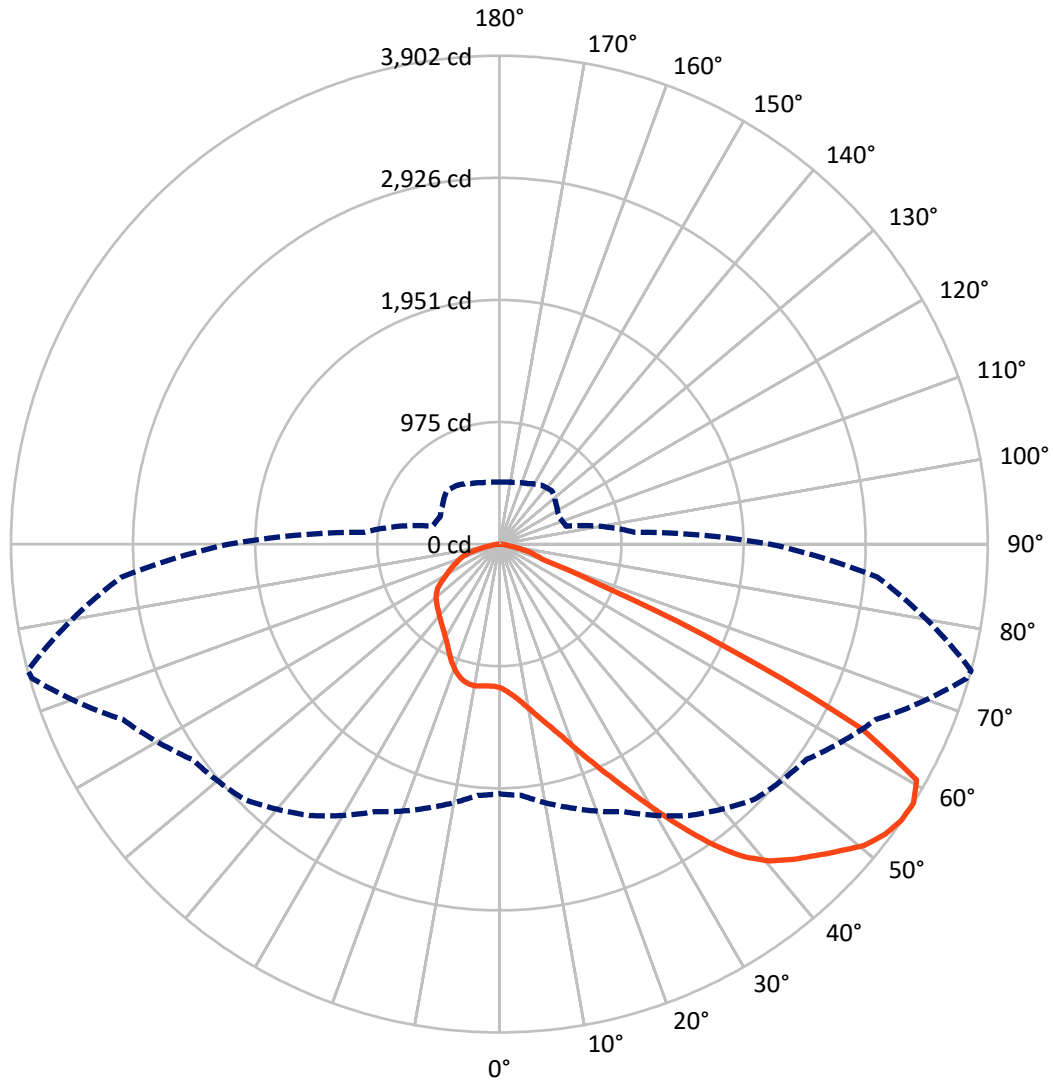
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P632549  
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P632549  
 CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

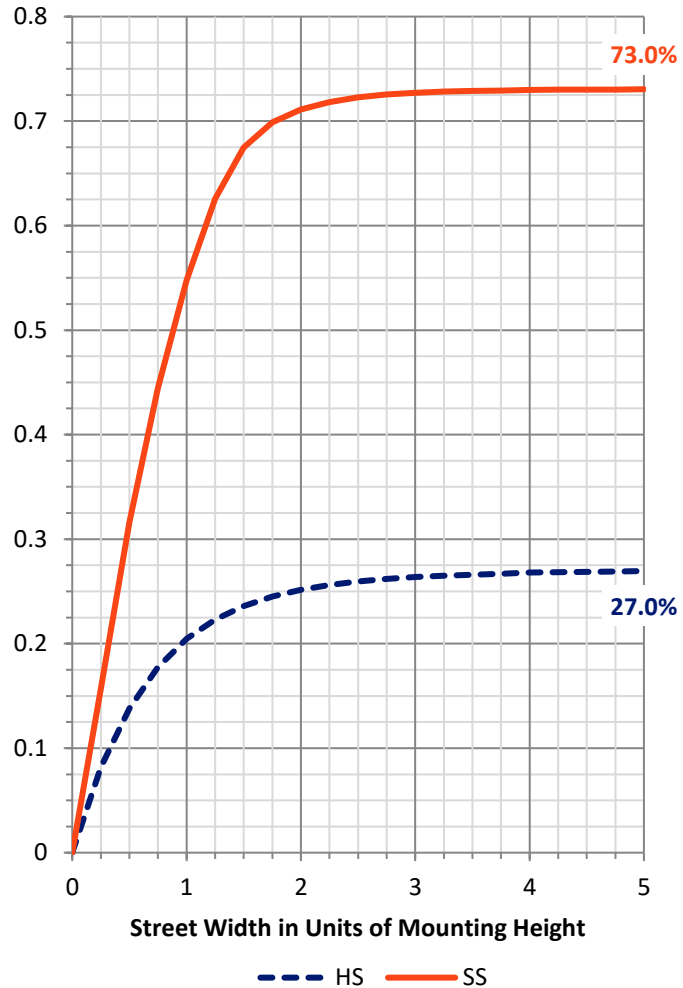
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1658.2   | 0.0    | 1658.2 |
|                    | % Fixture | 27.1     | 0.0    | 27.1   |
| <b>Street Side</b> | Lumens    | 4471.6   | 0.0    | 4471.6 |
|                    | % Fixture | 72.9     | 0.0    | 72.9   |
| <b>Total</b>       | Lumens    | 6129.8   | 0.0    | 6129.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 114.9  | 1.9       |
| 10°-20°   | 365.7  | 6.0       |
| 20°-30°   | 648.6  | 10.6      |
| 30°-40°   | 992.9  | 16.2      |
| 40°-50°   | 1382.6 | 22.6      |
| 50°-60°   | 1584.2 | 25.8      |
| 60°-70°   | 814.0  | 13.3      |
| 70°-80°   | 204.9  | 3.3       |
| 80°-90°   | 21.9   | 0.4       |
| 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°    | 6129.8 | 100.0     |
| 0°-180°   | 6129.8 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P632549

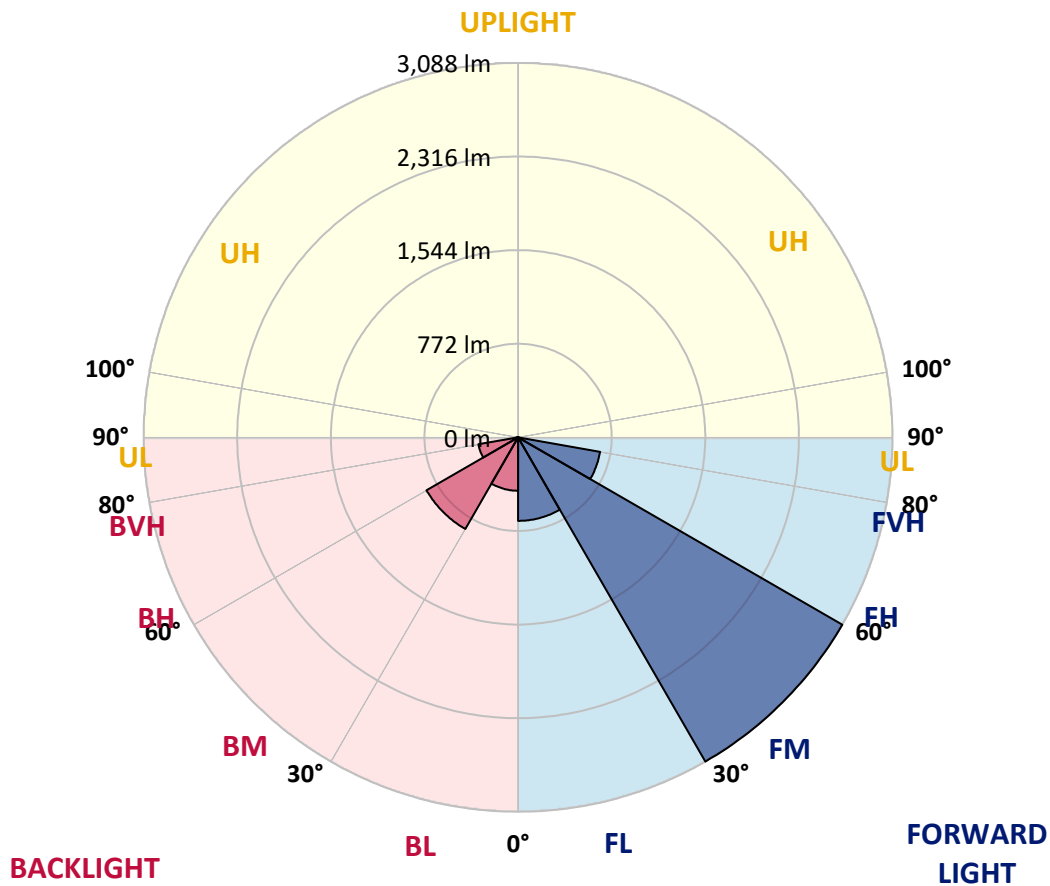
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 688.7  | 11.2      |                         |      |         |
| FM (30°-60°)   | 3087.7 | 50.4      |                         |      |         |
| FH (60°-80°)   | 687.1  | 11.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 8.1    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 440.5  | 7.2       | B1/500                  |      |         |
| BM (30°-60°)   | 872.1  | 14.2      | B1/1000                 |      |         |
| BH (60°-80°)   | 331.8  | 5.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 13.8   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P632549

CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 |
| 2.5°  | 1233.4 | 1236.5 | 1233.4 | 1238.6 | 1228.1 | 1223.3 | 1211.7 | 1194.3 | 1180.6 | 1178.5 | 1163.2 |
| 5°    | 1329.3 | 1336.1 | 1331.9 | 1329.8 | 1315.6 | 1305.0 | 1287.6 | 1252.9 | 1224.4 | 1220.2 | 1190.1 |
| 7.5°  | 1390.9 | 1395.7 | 1395.7 | 1397.3 | 1392.0 | 1379.9 | 1361.4 | 1320.3 | 1280.3 | 1273.9 | 1228.6 |
| 10°   | 1411.5 | 1415.2 | 1422.0 | 1435.2 | 1445.8 | 1449.4 | 1437.3 | 1397.8 | 1348.8 | 1342.5 | 1279.2 |
| 12.5° | 1416.2 | 1420.5 | 1431.0 | 1455.2 | 1484.2 | 1510.6 | 1512.7 | 1483.7 | 1428.9 | 1422.0 | 1337.7 |
| 15°   | 1425.2 | 1429.4 | 1443.7 | 1473.7 | 1516.4 | 1567.0 | 1598.1 | 1578.1 | 1517.4 | 1510.1 | 1404.1 |
| 17.5° | 1424.2 | 1428.9 | 1450.0 | 1490.0 | 1547.5 | 1620.7 | 1680.8 | 1689.3 | 1626.5 | 1613.9 | 1479.5 |
| 20°   | 1421.5 | 1425.7 | 1448.4 | 1497.4 | 1568.6 | 1669.2 | 1777.8 | 1821.6 | 1754.1 | 1742.5 | 1567.5 |
| 22.5° | 1442.6 | 1447.3 | 1464.7 | 1505.3 | 1579.6 | 1706.7 | 1867.4 | 1972.8 | 1905.4 | 1889.0 | 1668.7 |
| 25°   | 1490.0 | 1496.9 | 1507.4 | 1535.4 | 1599.7 | 1739.9 | 1959.1 | 2144.1 | 2075.1 | 2055.6 | 1778.9 |
| 27.5° | 1563.3 | 1571.7 | 1586.5 | 1599.7 | 1644.5 | 1782.0 | 2050.3 | 2336.0 | 2266.9 | 2246.4 | 1895.4 |
| 30°   | 1652.9 | 1664.0 | 1682.9 | 1691.9 | 1722.5 | 1844.2 | 2149.4 | 2533.6 | 2493.6 | 2465.1 | 2026.6 |
| 32.5° | 1776.8 | 1792.0 | 1810.0 | 1812.6 | 1831.1 | 1938.6 | 2247.4 | 2729.7 | 2729.2 | 2709.2 | 2175.8 |
| 35°   | 1938.0 | 1954.4 | 1958.1 | 1961.8 | 1970.7 | 2068.2 | 2366.0 | 2908.4 | 2977.4 | 2954.2 | 2338.1 |
| 37.5° | 2114.1 | 2137.8 | 2143.6 | 2127.3 | 2139.9 | 2224.2 | 2499.4 | 3051.8 | 3193.5 | 3168.8 | 2495.2 |
| 40°   | 2302.3 | 2311.7 | 2327.6 | 2301.7 | 2317.5 | 2402.9 | 2630.1 | 3143.5 | 3354.8 | 3328.5 | 2619.0 |
| 42.5° | 2437.2 | 2454.6 | 2478.3 | 2468.8 | 2477.8 | 2555.8 | 2721.8 | 3187.7 | 3469.7 | 3443.4 | 2708.1 |
| 45°   | 2583.7 | 2589.0 | 2604.3 | 2602.2 | 2607.4 | 2680.2 | 2787.7 | 3207.2 | 3572.5 | 3548.8 | 2784.0 |
| 47.5° | 2711.3 | 2719.2 | 2729.2 | 2717.6 | 2706.0 | 2753.4 | 2841.4 | 3224.1 | 3691.1 | 3662.6 | 2863.6 |
| 50°   | 2834.1 | 2840.9 | 2853.0 | 2819.3 | 2776.1 | 2788.2 | 2867.8 | 3247.3 | 3802.3 | 3782.3 | 2926.3 |
| 52.5° | 2856.7 | 2864.1 | 2921.0 | 2927.9 | 2872.5 | 2829.9 | 2914.2 | 3298.4 | 3867.7 | 3855.0 | 2949.0 |
| 55°   | 2571.6 | 2584.8 | 2698.1 | 2828.3 | 2964.8 | 2951.1 | 2988.5 | 3325.3 | 3893.5 | 3896.6 | 2989.6 |
| 57.5° | 1996.0 | 2015.0 | 2180.5 | 2359.2 | 2646.4 | 2884.1 | 2998.0 | 3318.4 | 3884.5 | 3901.9 | 3031.2 |
| 60°   | 1309.2 | 1320.3 | 1516.4 | 1716.7 | 2014.5 | 2343.4 | 2683.3 | 3195.1 | 3804.9 | 3829.7 | 3020.7 |
| 62.5° | 790.6  | 803.3  | 960.9  | 1112.7 | 1288.2 | 1508.0 | 1820.0 | 2567.9 | 3189.3 | 3244.7 | 2419.3 |
| 65°   | 551.8  | 568.7  | 706.8  | 831.7  | 892.3  | 847.0  | 921.9  | 1434.2 | 1987.1 | 2010.3 | 1478.4 |
| 67.5° | 400.0  | 411.6  | 525.0  | 673.6  | 740.5  | 598.2  | 455.9  | 635.1  | 865.5  | 873.9  | 609.8  |
| 70°   | 262.0  | 275.1  | 377.9  | 512.8  | 604.6  | 484.9  | 341.0  | 343.7  | 364.2  | 368.4  | 354.2  |
| 72.5° | 143.9  | 151.8  | 233.5  | 340.5  | 357.4  | 289.9  | 266.2  | 285.7  | 299.9  | 299.9  | 303.6  |
| 75°   | 74.3   | 81.2   | 95.4   | 112.3  | 135.5  | 158.6  | 191.9  | 220.8  | 236.1  | 237.2  | 235.6  |
| 77.5° | 37.9   | 40.6   | 51.1   | 55.3   | 60.6   | 70.6   | 91.7   | 117.5  | 131.2  | 136.5  | 135.5  |
| 80°   | 17.9   | 19.0   | 21.6   | 25.3   | 31.1   | 39.5   | 49.5   | 59.0   | 67.5   | 68.5   | 74.3   |
| 82.5° | 9.5    | 10.5   | 11.6   | 13.7   | 16.9   | 21.1   | 29.0   | 34.8   | 40.1   | 41.1   | 45.9   |
| 85°   | 3.7    | 4.2    | 4.7    | 5.3    | 7.4    | 9.0    | 12.1   | 16.3   | 20.0   | 20.0   | 23.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 1.1    | 2.1    | 2.6    | 3.7    | 3.7    | 6.3    |
| 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: P632549

CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 | 1148.0 |
| 2.5°  | 1159.6 | 1144.3 | 1137.4 | 1126.4 | 1117.4 | 1107.4 | 1099.5 | 1093.7 | 1090.0 | 1087.9 | 1085.8 |
| 5°    | 1178.5 | 1155.3 | 1136.9 | 1114.8 | 1099.5 | 1084.7 | 1072.6 | 1064.2 | 1059.9 | 1056.8 | 1054.7 |
| 7.5°  | 1208.1 | 1177.0 | 1142.2 | 1107.9 | 1081.0 | 1057.3 | 1042.0 | 1033.1 | 1027.3 | 1025.2 | 1023.6 |
| 10°   | 1248.6 | 1205.4 | 1148.0 | 1093.7 | 1053.6 | 1027.8 | 1017.3 | 1013.0 | 1013.6 | 1012.5 | 1012.0 |
| 12.5° | 1294.5 | 1235.5 | 1146.4 | 1068.4 | 1024.1 | 1008.8 | 1009.3 | 1016.2 | 1024.1 | 1026.2 | 1026.7 |
| 15°   | 1344.0 | 1265.0 | 1131.1 | 1035.7 | 1000.9 | 1002.5 | 1016.2 | 1032.5 | 1047.3 | 1053.1 | 1054.1 |
| 17.5° | 1397.8 | 1289.7 | 1103.2 | 999.9  | 981.9  | 998.8  | 1024.1 | 1051.0 | 1072.6 | 1082.1 | 1084.7 |
| 20°   | 1457.9 | 1310.8 | 1063.6 | 964.5  | 964.0  | 992.0  | 1028.8 | 1064.2 | 1091.6 | 1104.2 | 1106.3 |
| 22.5° | 1521.7 | 1324.0 | 1015.1 | 931.9  | 945.6  | 983.0  | 1025.2 | 1062.1 | 1091.0 | 1103.7 | 1106.3 |
| 25°   | 1586.0 | 1328.2 | 961.9  | 901.8  | 926.6  | 968.8  | 1007.2 | 1036.8 | 1064.2 | 1075.2 | 1077.3 |
| 27.5° | 1646.0 | 1316.1 | 911.3  | 876.0  | 909.2  | 947.7  | 973.5  | 989.3  | 1008.3 | 1016.7 | 1018.3 |
| 30°   | 1707.2 | 1291.9 | 868.6  | 855.4  | 889.7  | 918.7  | 930.3  | 931.3  | 938.7  | 938.7  | 939.8  |
| 32.5° | 1768.9 | 1256.0 | 831.2  | 835.4  | 865.5  | 884.4  | 886.0  | 873.9  | 864.9  | 850.2  | 849.6  |
| 35°   | 1840.0 | 1219.6 | 800.6  | 812.7  | 837.0  | 848.6  | 843.8  | 820.7  | 799.0  | 774.8  | 773.7  |
| 37.5° | 1905.9 | 1182.2 | 774.8  | 789.6  | 804.8  | 813.3  | 802.2  | 774.3  | 756.3  | 731.6  | 727.9  |
| 40°   | 1960.2 | 1148.5 | 750.0  | 765.3  | 772.7  | 780.1  | 762.1  | 739.5  | 742.1  | 728.4  | 727.9  |
| 42.5° | 1991.8 | 1115.8 | 726.8  | 738.4  | 743.2  | 748.4  | 732.6  | 715.8  | 730.0  | 719.5  | 720.0  |
| 45°   | 2015.0 | 1087.4 | 705.8  | 710.0  | 721.6  | 729.5  | 714.7  | 695.7  | 698.9  | 658.3  | 648.8  |
| 47.5° | 2041.4 | 1071.5 | 685.7  | 681.5  | 702.1  | 715.8  | 693.1  | 665.7  | 646.7  | 606.7  | 603.0  |
| 50°   | 2069.3 | 1065.7 | 664.6  | 653.0  | 677.8  | 691.0  | 664.6  | 630.4  | 605.6  | 584.0  | 581.9  |
| 52.5° | 2078.8 | 1065.2 | 638.3  | 618.8  | 643.6  | 662.0  | 639.9  | 605.1  | 575.6  | 554.5  | 553.4  |
| 55°   | 2116.2 | 1080.5 | 604.6  | 571.9  | 595.1  | 633.0  | 616.7  | 566.6  | 542.9  | 533.4  | 532.3  |
| 57.5° | 2159.9 | 1083.1 | 551.3  | 520.7  | 552.9  | 597.7  | 577.1  | 533.9  | 508.1  | 496.5  | 495.4  |
| 60°   | 2142.0 | 1018.3 | 494.4  | 481.7  | 517.1  | 564.5  | 545.5  | 508.1  | 478.1  | 467.0  | 465.9  |
| 62.5° | 1632.3 | 718.9  | 452.8  | 448.0  | 478.6  | 516.5  | 512.8  | 473.8  | 445.4  | 437.5  | 436.4  |
| 65°   | 981.9  | 504.9  | 412.7  | 412.2  | 433.8  | 470.1  | 474.9  | 443.3  | 413.2  | 402.2  | 402.2  |
| 67.5° | 485.4  | 386.3  | 367.4  | 364.7  | 378.4  | 404.3  | 424.3  | 398.5  | 373.2  | 362.6  | 361.0  |
| 70°   | 343.1  | 340.5  | 334.2  | 326.8  | 329.4  | 340.0  | 348.4  | 326.8  | 299.9  | 289.4  | 287.3  |
| 72.5° | 296.7  | 297.3  | 293.1  | 287.3  | 285.1  | 277.8  | 270.4  | 254.6  | 238.2  | 227.2  | 228.2  |
| 75°   | 230.3  | 231.4  | 234.0  | 231.9  | 226.1  | 218.2  | 210.3  | 190.3  | 177.1  | 166.6  | 164.4  |
| 77.5° | 134.4  | 139.7  | 148.1  | 146.0  | 147.1  | 136.0  | 132.8  | 113.3  | 101.2  | 93.8   | 92.2   |
| 80°   | 75.9   | 79.1   | 82.8   | 85.4   | 82.2   | 77.5   | 70.6   | 60.1   | 56.4   | 51.1   | 50.1   |
| 82.5° | 45.9   | 49.0   | 50.6   | 52.7   | 51.7   | 45.3   | 40.1   | 33.2   | 30.0   | 27.4   | 26.9   |
| 85°   | 23.2   | 25.3   | 26.9   | 27.9   | 24.8   | 20.6   | 18.4   | 14.8   | 12.6   | 11.1   | 11.1   |
| 87.5° | 5.8    | 6.3    | 7.4    | 6.3    | 5.8    | 2.6    | 2.1    | 0.5    | 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    | 0.0    |

(END OF REPORT)