

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: P631080

Luminaire Tested: GWS-SA1E-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5814.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

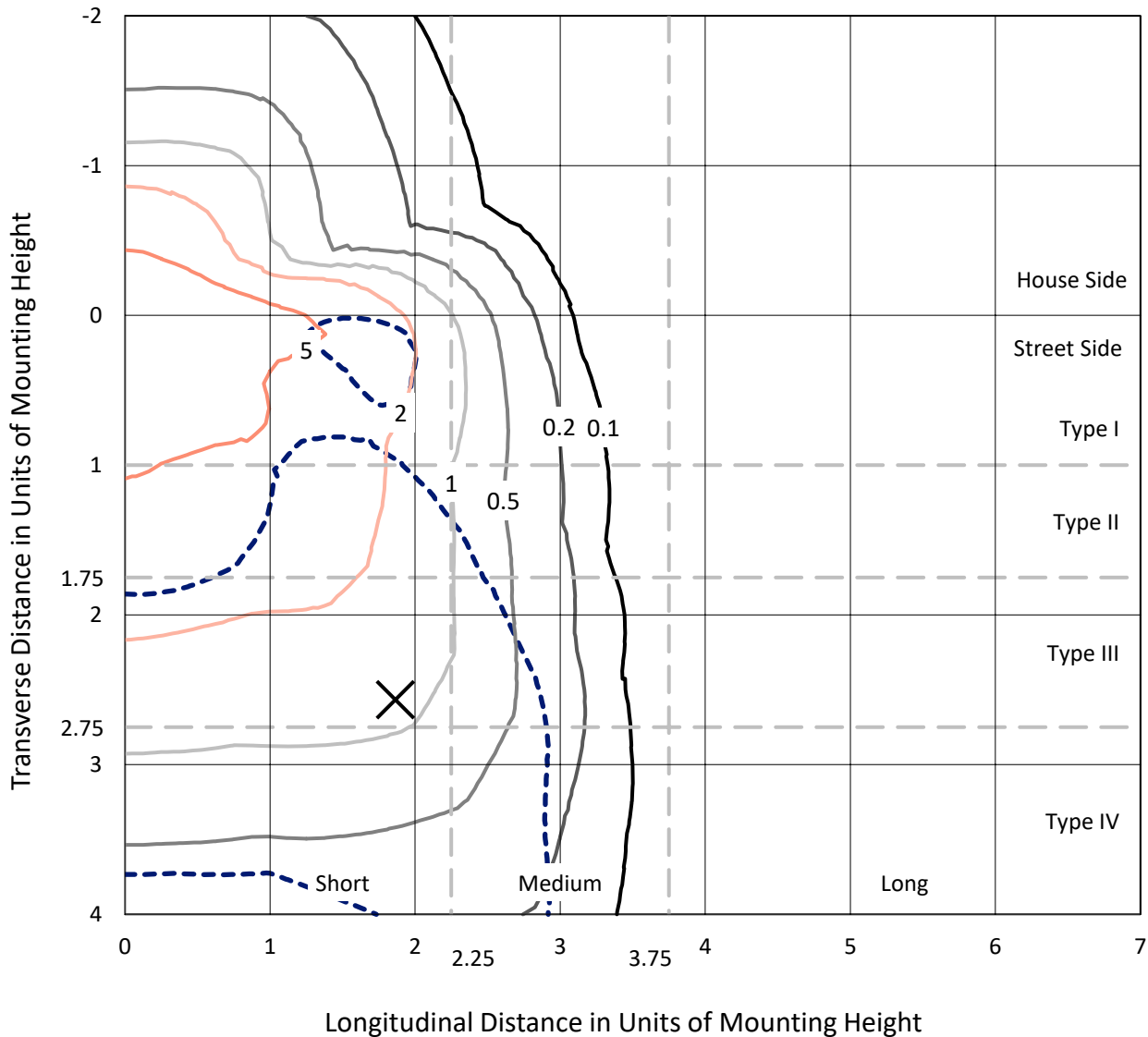
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631080
 CATALOG NUMBER: GWS-SA1E-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination

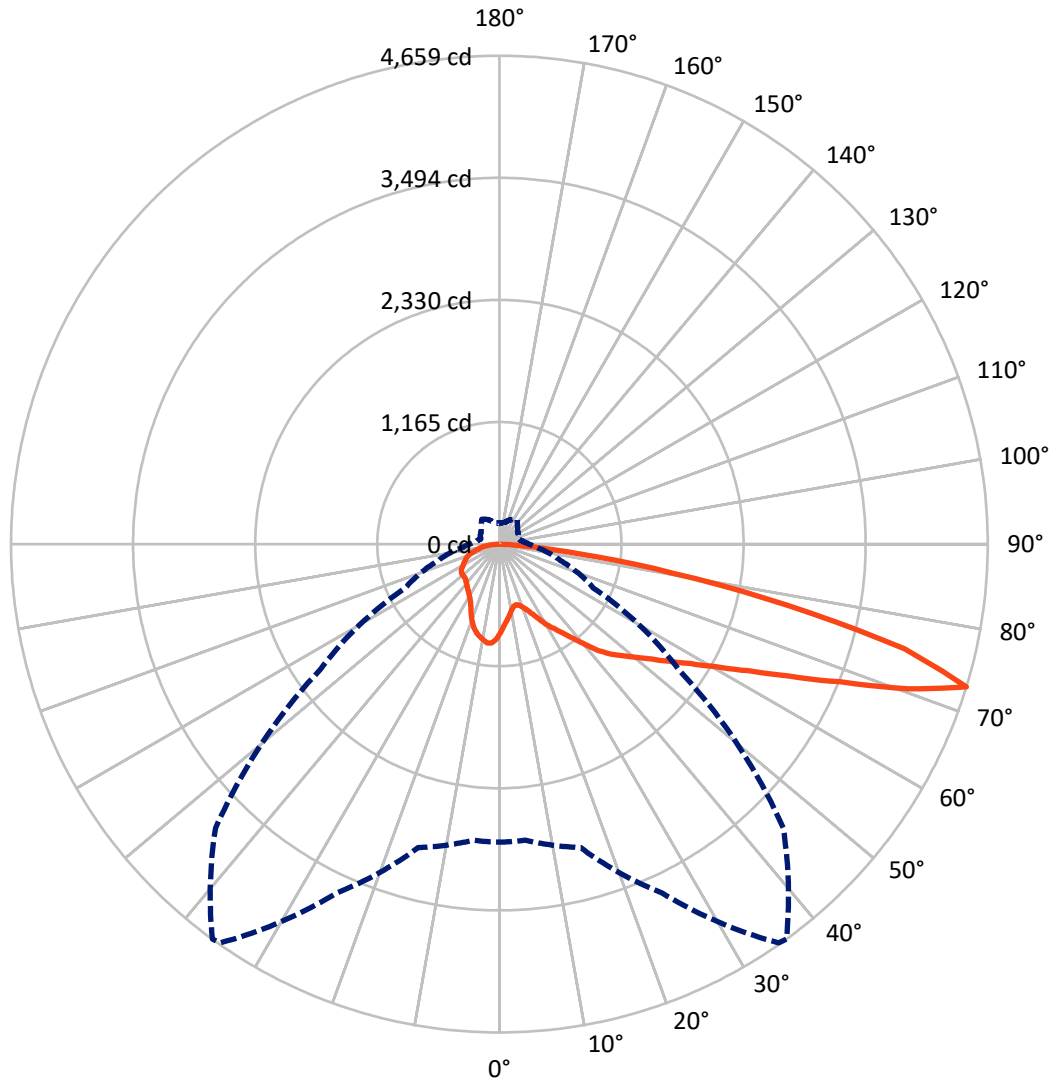
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P631080
CATALOG NUMBER: GWS-SA1E-830-U-T4FT-W

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P631080

CATALOG NUMBER: GWS-SA1E-830-U-T4FT-W

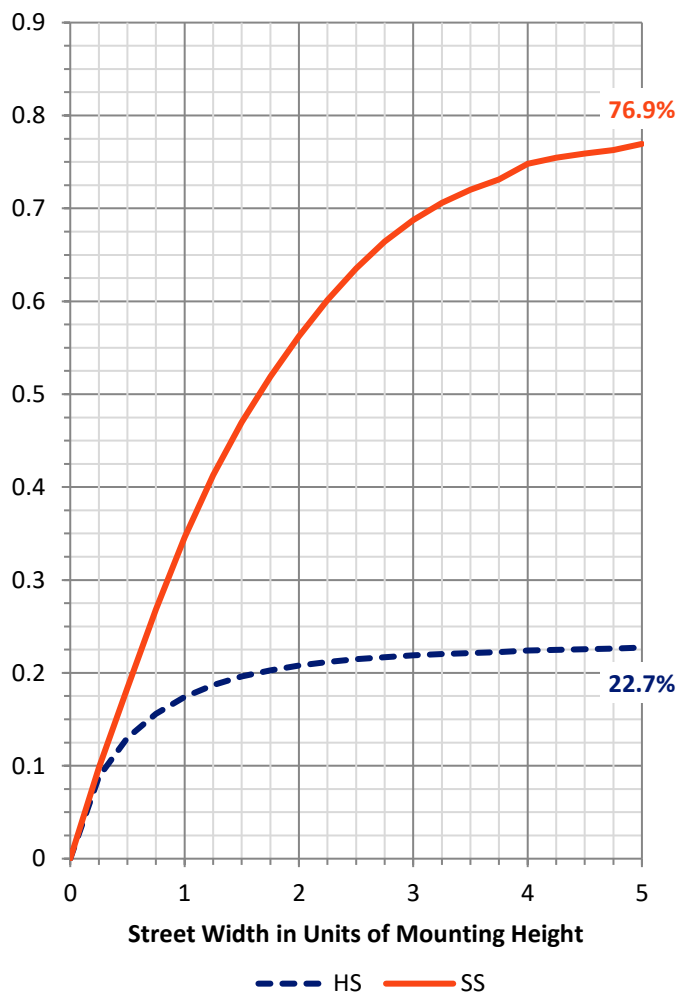
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1340.5 | 0.0 | 1340.5 |
| | % Fixture | 23.1 | 0.0 | 23.1 |
| Street Side | Lumens | 4473.9 | 0.0 | 4473.9 |
| | % Fixture | 76.9 | 0.0 | 76.9 |
| Total | Lumens | 5814.4 | 0.0 | 5814.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.5 | 1.4 |
| 10°-20° | 224.4 | 3.9 |
| 20°-30° | 371.7 | 6.4 |
| 30°-40° | 556.6 | 9.6 |
| 40°-50° | 812.0 | 14.0 |
| 50°-60° | 1155.8 | 19.9 |
| 60°-70° | 1460.2 | 25.1 |
| 70°-80° | 1040.5 | 17.9 |
| 80°-90° | 113.6 | 2.0 |
| 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° | 5814.4 | 100.0 |
| 0°-180° | 5814.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P631080

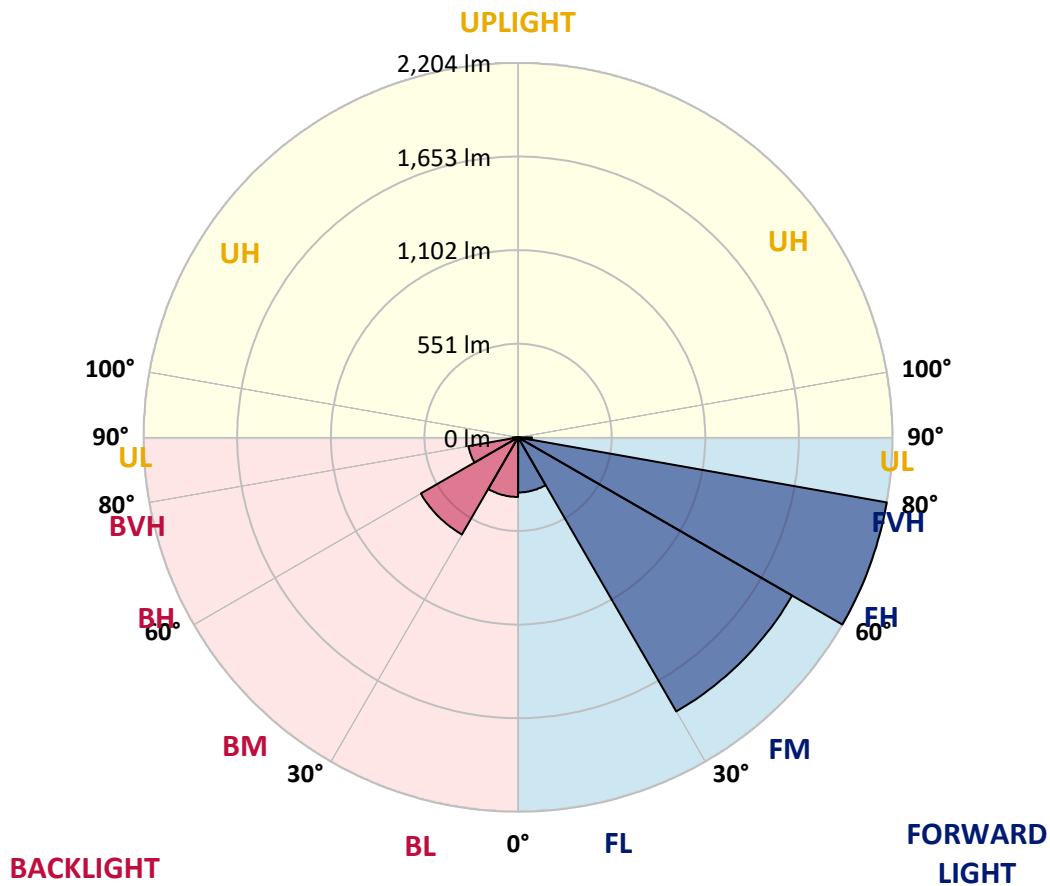
CATALOG NUMBER: GWS-SA1E-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 324.6 | 5.6 | | | |
| FM (30°-60°) | 1863.4 | 32.0 | | | |
| FH (60°-80°) | 2204.4 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 81.5 | 1.4 | | | G1/100 |
| BL (0°-30°) | 351.0 | 6.0 | B1/500 | | |
| BM (30°-60°) | 661.0 | 11.4 | B1/1000 | | |
| BH (60°-80°) | 296.3 | 5.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 32.1 | 0.6 | | | 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 IV Short





REPORT NUMBER: P631080
 CATALOG NUMBER: GWS-SA1E-830-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 |
| 2.5° | 776.3 | 775.0 | 772.4 | 780.2 | 788.0 | 787.1 | 797.9 | 808.2 | 819.5 | 831.1 | 846.6 |
| 5° | 714.2 | 713.3 | 711.2 | 722.8 | 734.5 | 734.0 | 751.7 | 768.5 | 791.4 | 816.4 | 847.5 |
| 7.5° | 652.0 | 649.9 | 652.9 | 667.6 | 684.0 | 685.7 | 709.9 | 737.5 | 770.7 | 808.2 | 852.3 |
| 10° | 597.2 | 596.8 | 598.1 | 614.5 | 639.1 | 640.8 | 671.9 | 710.3 | 754.3 | 804.4 | 863.0 |
| 12.5° | 583.0 | 582.1 | 578.7 | 586.9 | 605.4 | 608.0 | 642.1 | 689.1 | 743.1 | 806.5 | 877.7 |
| 15° | 606.3 | 604.1 | 592.0 | 588.2 | 597.2 | 599.4 | 628.3 | 676.6 | 736.6 | 810.4 | 896.3 |
| 17.5° | 646.4 | 645.1 | 622.3 | 606.3 | 612.3 | 614.1 | 635.6 | 674.5 | 734.9 | 818.2 | 919.1 |
| 20° | 705.1 | 699.5 | 663.7 | 639.5 | 639.5 | 642.1 | 655.1 | 684.0 | 737.0 | 827.7 | 945.0 |
| 22.5° | 782.8 | 771.6 | 721.1 | 688.3 | 679.6 | 683.1 | 688.7 | 707.7 | 746.1 | 843.6 | 977.4 |
| 25° | 870.0 | 859.6 | 799.6 | 753.4 | 741.4 | 742.7 | 737.9 | 741.4 | 766.0 | 865.6 | 1017.5 |
| 27.5° | 962.7 | 955.8 | 892.0 | 833.3 | 814.3 | 814.3 | 797.5 | 789.3 | 793.6 | 890.7 | 1062.4 |
| 30° | 1045.6 | 1036.1 | 982.1 | 917.8 | 892.8 | 892.8 | 860.9 | 843.2 | 832.8 | 921.3 | 1122.4 |
| 32.5° | 1089.2 | 1083.6 | 1047.7 | 998.5 | 967.9 | 963.2 | 935.5 | 914.8 | 890.7 | 966.6 | 1203.5 |
| 35° | 1146.1 | 1144.8 | 1123.3 | 1084.8 | 1046.0 | 1039.1 | 1020.1 | 1003.7 | 961.9 | 1023.1 | 1311.4 |
| 37.5° | 1217.8 | 1215.6 | 1212.1 | 1189.3 | 1142.7 | 1141.4 | 1124.5 | 1104.7 | 1050.3 | 1104.7 | 1442.2 |
| 40° | 1298.0 | 1294.1 | 1289.8 | 1289.4 | 1261.3 | 1256.6 | 1255.3 | 1232.9 | 1156.9 | 1203.1 | 1578.5 |
| 42.5° | 1408.5 | 1395.1 | 1354.6 | 1372.7 | 1393.4 | 1389.1 | 1405.5 | 1371.8 | 1289.8 | 1320.0 | 1707.5 |
| 45° | 1544.4 | 1511.6 | 1431.4 | 1436.5 | 1488.8 | 1497.4 | 1554.3 | 1546.1 | 1436.1 | 1455.1 | 1843.5 |
| 47.5° | 1626.0 | 1597.5 | 1522.8 | 1518.5 | 1583.7 | 1594.5 | 1718.3 | 1733.9 | 1593.6 | 1617.8 | 2011.3 |
| 50° | 1692.9 | 1673.0 | 1611.7 | 1617.8 | 1686.8 | 1697.6 | 1881.0 | 1914.2 | 1742.1 | 1784.3 | 2206.4 |
| 52.5° | 1773.6 | 1745.1 | 1697.6 | 1726.1 | 1810.7 | 1823.6 | 2061.8 | 2097.6 | 1875.8 | 1967.3 | 2408.3 |
| 55° | 1818.9 | 1807.2 | 1808.1 | 1851.7 | 1957.8 | 1975.5 | 2251.3 | 2245.2 | 1998.4 | 2124.0 | 2560.2 |
| 57.5° | 1923.3 | 1919.0 | 1958.7 | 1975.1 | 2129.6 | 2152.4 | 2440.7 | 2388.9 | 2109.7 | 2245.2 | 2633.2 |
| 60° | 2107.6 | 2096.8 | 2131.3 | 2156.3 | 2341.9 | 2374.2 | 2652.1 | 2529.6 | 2185.2 | 2335.4 | 2608.6 |
| 62.5° | 2366.5 | 2353.1 | 2354.4 | 2394.1 | 2626.2 | 2660.3 | 2887.3 | 2647.0 | 2208.5 | 2349.2 | 2452.8 |
| 65° | 2688.4 | 2669.0 | 2647.0 | 2700.9 | 3003.8 | 3032.3 | 3143.2 | 2732.4 | 2152.9 | 2216.3 | 2127.4 |
| 67.5° | 3028.0 | 3012.0 | 2986.1 | 3099.2 | 3492.7 | 3510.0 | 3430.2 | 2725.1 | 1976.4 | 1860.7 | 1492.2 |
| 70° | 3047.8 | 3051.7 | 3174.3 | 3583.4 | 4131.0 | 4135.3 | 3701.6 | 2577.5 | 1600.5 | 1206.1 | 743.5 |
| 72.5° | 2843.3 | 2836.8 | 2996.5 | 3671.8 | 4644.5 | 4659.2 | 3829.8 | 2088.1 | 989.1 | 601.5 | 348.7 |
| 75° | 2309.5 | 2320.7 | 2488.6 | 3212.7 | 3980.8 | 3993.7 | 3122.1 | 1231.1 | 469.9 | 294.3 | 223.1 |
| 77.5° | 994.2 | 1056.8 | 1387.8 | 2263.3 | 2851.1 | 2810.9 | 1609.1 | 498.8 | 250.7 | 209.7 | 170.9 |
| 80° | 287.0 | 311.6 | 494.5 | 1076.2 | 1708.4 | 1678.2 | 636.9 | 186.8 | 174.8 | 157.5 | 122.6 |
| 82.5° | 92.8 | 102.7 | 181.2 | 428.5 | 765.5 | 764.7 | 241.7 | 110.5 | 114.4 | 107.0 | 79.0 |
| 85° | 25.9 | 29.8 | 55.7 | 129.9 | 236.9 | 232.2 | 69.9 | 52.2 | 60.8 | 61.7 | 39.3 |
| 87.5° | 0.0 | 0.0 | 0.4 | 0.9 | 0.9 | 0.9 | 1.7 | 7.8 | 17.7 | 22.4 | 16.0 |
| 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: P631080
 CATALOG NUMBER: GWS-SA1E-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 | 851.0 |
| 2.5° | 856.1 | 854.8 | 872.5 | 886.3 | 899.3 | 907.9 | 910.5 | 912.2 | 915.7 | 917.4 | 915.7 |
| 5° | 862.2 | 868.7 | 898.0 | 919.6 | 936.8 | 947.2 | 947.6 | 946.8 | 949.4 | 947.2 | 945.9 |
| 7.5° | 875.1 | 887.6 | 924.8 | 947.6 | 958.8 | 959.3 | 948.9 | 936.8 | 930.8 | 925.6 | 923.9 |
| 10° | 892.4 | 910.9 | 951.5 | 966.6 | 963.2 | 947.2 | 924.3 | 905.3 | 894.5 | 886.8 | 885.1 |
| 12.5° | 916.1 | 936.8 | 975.2 | 974.8 | 953.2 | 924.8 | 898.0 | 875.1 | 859.6 | 850.5 | 847.5 |
| 15° | 938.6 | 964.9 | 992.5 | 972.2 | 938.1 | 903.6 | 869.1 | 838.4 | 817.7 | 803.5 | 800.9 |
| 17.5° | 966.2 | 994.2 | 1005.0 | 964.0 | 919.1 | 874.7 | 828.5 | 788.4 | 760.3 | 743.5 | 742.2 |
| 20° | 998.1 | 1023.1 | 1011.1 | 949.8 | 894.5 | 836.3 | 773.7 | 728.8 | 698.6 | 682.2 | 683.5 |
| 22.5° | 1035.2 | 1053.3 | 1012.8 | 930.4 | 860.5 | 781.9 | 712.0 | 668.9 | 648.6 | 639.9 | 640.4 |
| 25° | 1074.9 | 1086.6 | 1009.8 | 904.0 | 808.2 | 715.5 | 648.6 | 628.7 | 627.0 | 624.8 | 625.7 |
| 27.5° | 1122.0 | 1119.4 | 1000.7 | 866.9 | 737.9 | 638.2 | 604.1 | 609.3 | 616.2 | 615.4 | 616.2 |
| 30° | 1185.0 | 1160.4 | 989.1 | 815.6 | 654.2 | 573.5 | 577.8 | 592.5 | 601.5 | 602.4 | 605.0 |
| 32.5° | 1257.0 | 1205.7 | 970.5 | 745.7 | 574.4 | 537.2 | 553.2 | 570.9 | 581.7 | 583.9 | 587.3 |
| 35° | 1342.9 | 1257.5 | 937.7 | 658.5 | 517.0 | 515.7 | 530.3 | 542.4 | 554.1 | 554.9 | 554.9 |
| 37.5° | 1441.7 | 1309.2 | 885.5 | 562.3 | 481.6 | 497.1 | 510.9 | 513.5 | 516.5 | 513.9 | 515.2 |
| 40° | 1532.3 | 1359.3 | 811.3 | 474.7 | 452.7 | 480.7 | 492.4 | 483.7 | 474.2 | 467.8 | 469.1 |
| 42.5° | 1608.3 | 1393.4 | 712.9 | 413.4 | 423.3 | 466.0 | 475.1 | 457.4 | 438.9 | 426.8 | 428.5 |
| 45° | 1693.7 | 1424.9 | 597.2 | 372.0 | 398.3 | 455.7 | 461.7 | 438.9 | 415.1 | 397.0 | 394.4 |
| 47.5° | 1811.5 | 1489.2 | 494.5 | 343.1 | 380.6 | 450.1 | 460.0 | 428.9 | 397.9 | 370.7 | 367.7 |
| 50° | 1957.0 | 1580.2 | 408.7 | 324.1 | 372.4 | 447.1 | 459.6 | 418.1 | 381.0 | 349.1 | 346.9 |
| 52.5° | 2115.8 | 1669.1 | 345.2 | 309.4 | 364.2 | 438.0 | 457.4 | 406.1 | 363.3 | 328.8 | 326.2 |
| 55° | 2221.5 | 1704.1 | 302.5 | 295.6 | 350.8 | 423.8 | 448.8 | 394.4 | 336.6 | 305.1 | 301.2 |
| 57.5° | 2252.6 | 1659.2 | 272.7 | 283.1 | 333.6 | 403.9 | 432.4 | 369.8 | 320.2 | 295.2 | 292.1 |
| 60° | 2199.0 | 1546.1 | 254.2 | 272.7 | 314.6 | 378.4 | 403.9 | 355.6 | 307.2 | 284.8 | 282.6 |
| 62.5° | 2048.0 | 1371.8 | 239.9 | 261.9 | 295.2 | 351.7 | 385.8 | 338.3 | 293.0 | 275.3 | 272.3 |
| 65° | 1744.2 | 1125.0 | 228.3 | 250.7 | 276.6 | 326.2 | 365.9 | 321.1 | 277.5 | 264.1 | 260.6 |
| 67.5° | 1219.9 | 790.1 | 215.8 | 237.3 | 258.1 | 301.6 | 345.2 | 305.1 | 261.5 | 251.6 | 248.1 |
| 70° | 596.4 | 419.0 | 200.7 | 221.8 | 238.2 | 276.6 | 324.5 | 285.7 | 240.4 | 234.7 | 230.0 |
| 72.5° | 283.9 | 234.3 | 183.0 | 200.7 | 211.0 | 243.4 | 290.0 | 257.6 | 215.3 | 203.2 | 195.0 |
| 75° | 190.3 | 166.6 | 159.7 | 175.6 | 178.2 | 204.1 | 248.6 | 222.2 | 189.9 | 176.1 | 169.2 |
| 77.5° | 144.1 | 127.3 | 134.2 | 148.4 | 143.3 | 167.9 | 204.5 | 198.1 | 171.3 | 158.8 | 155.3 |
| 80° | 101.4 | 92.8 | 106.6 | 115.2 | 111.3 | 142.8 | 184.3 | 169.6 | 141.1 | 127.3 | 124.7 |
| 82.5° | 63.9 | 62.1 | 78.5 | 79.8 | 81.1 | 113.1 | 151.5 | 133.3 | 109.6 | 90.2 | 83.7 |
| 85° | 31.9 | 35.4 | 47.0 | 47.0 | 46.6 | 58.3 | 86.3 | 75.1 | 59.1 | 47.0 | 45.7 |
| 87.5° | 10.8 | 15.1 | 20.3 | 16.4 | 12.5 | 9.9 | 11.2 | 13.8 | 14.7 | 14.2 | 14.2 |
| 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)