

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: P628933

Luminaire Tested: GWS-SA1A-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2550.4 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

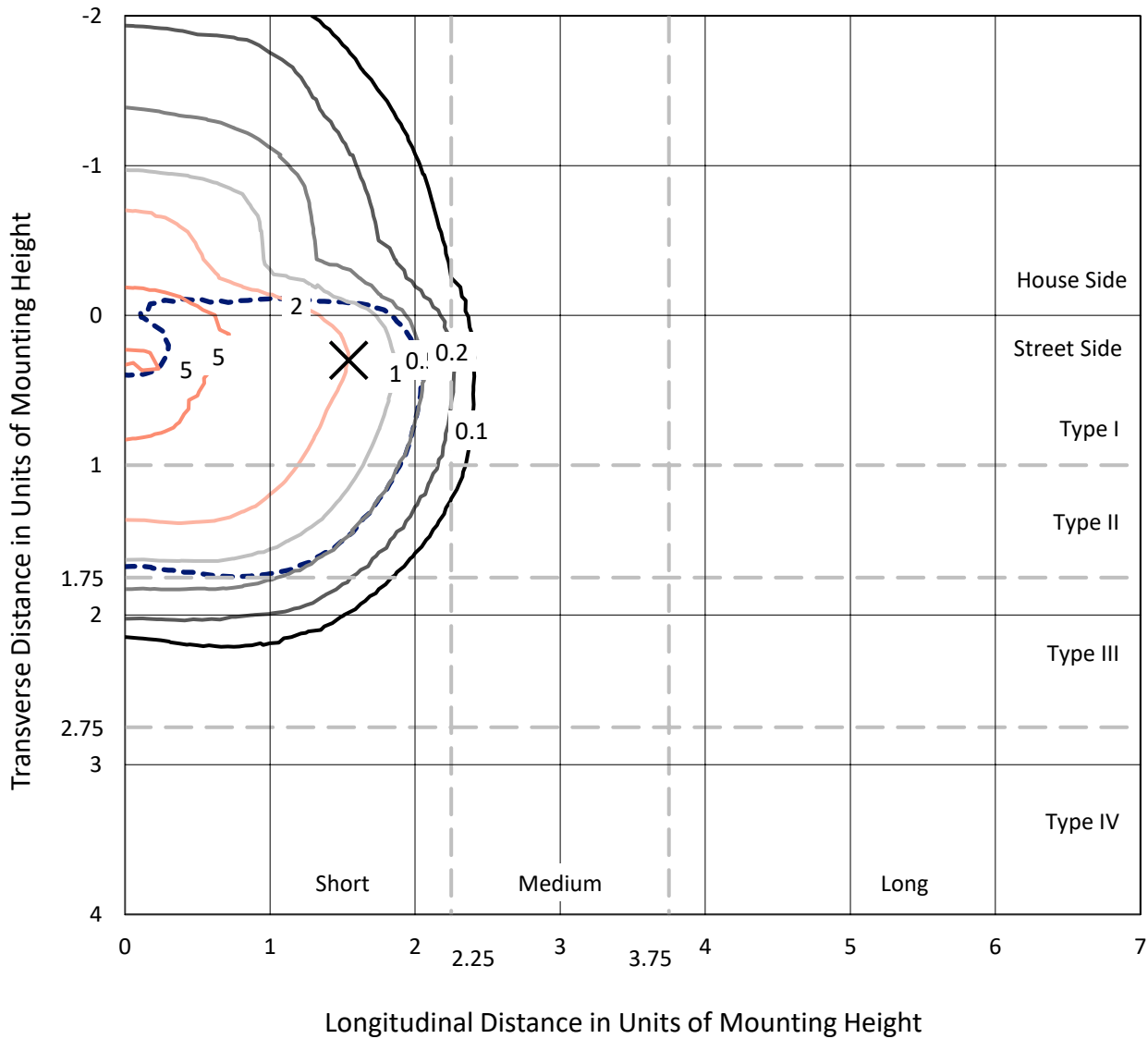
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P628933
 CATALOG NUMBER: GWS-SA1A-750-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

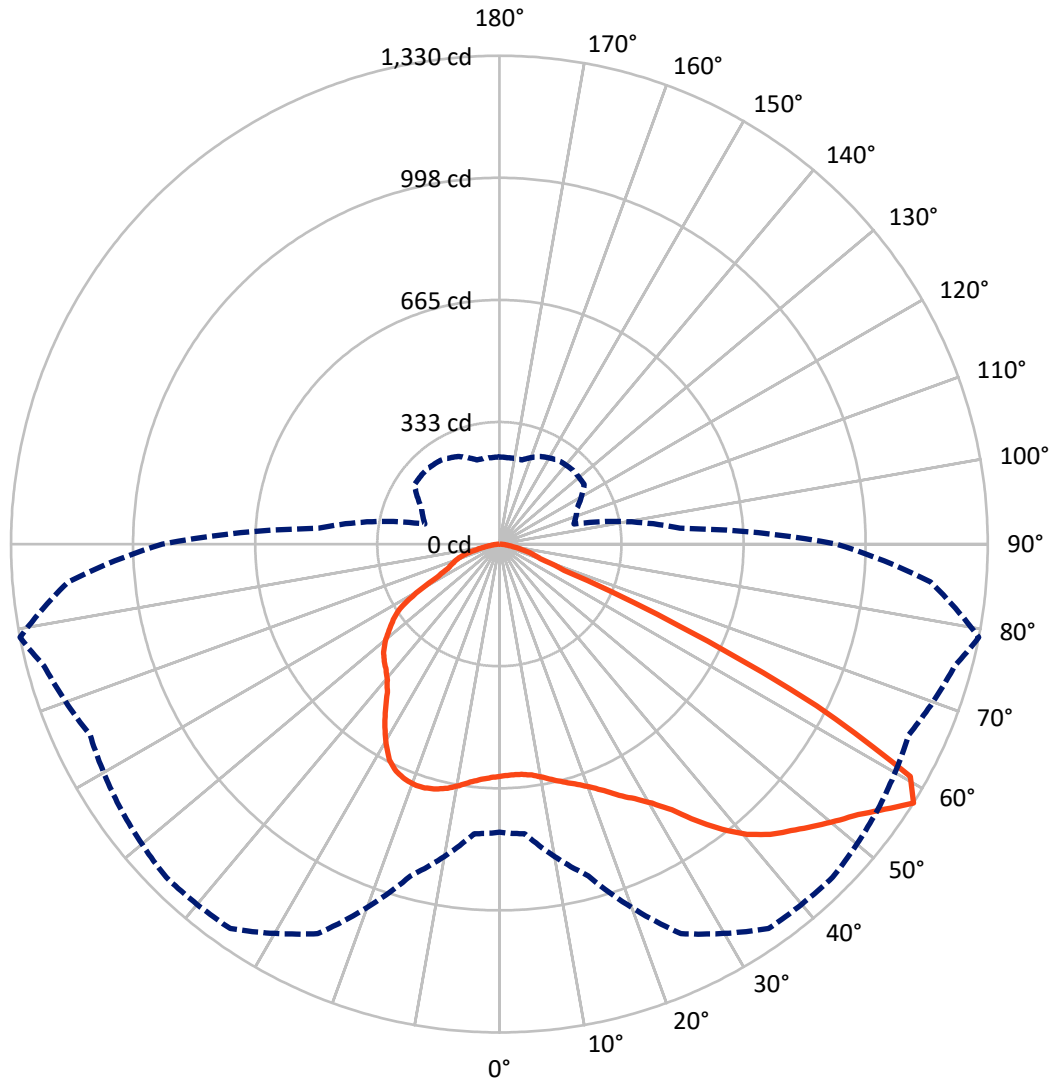
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P628933
CATALOG NUMBER: GWS-SA1A-750-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P628933

CATALOG NUMBER: GWS-SA1A-750-U-T3R-W-GRSWH

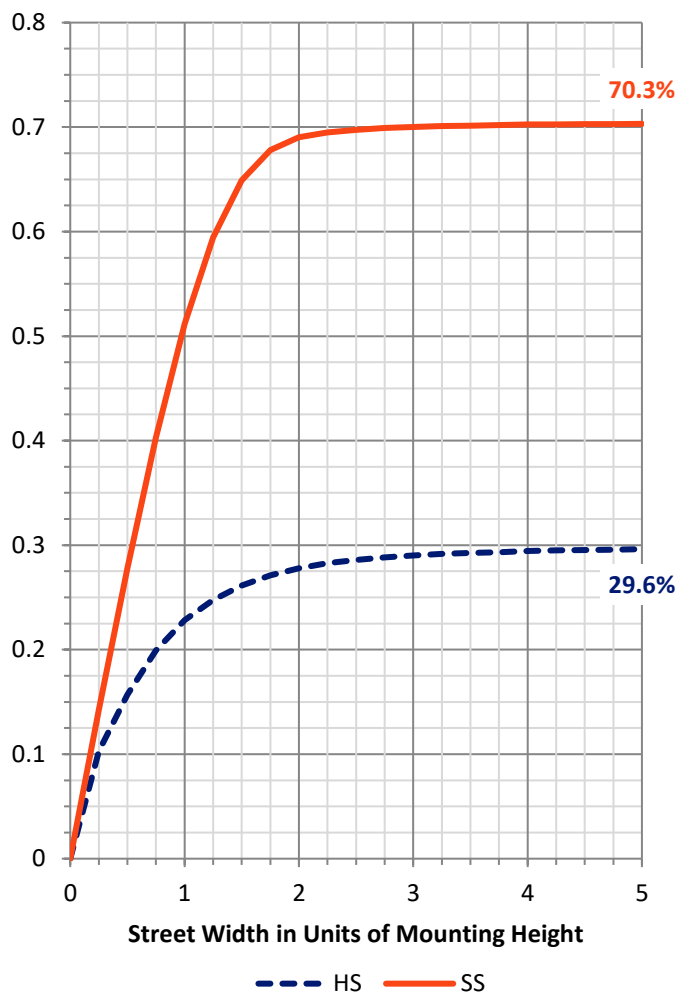
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 758.1 | 0.0 | 758.1 |
| | % Fixture | 29.7 | 0.0 | 29.7 |
| Street Side | Lumens | 1792.3 | 0.0 | 1792.3 |
| | % Fixture | 70.3 | 0.0 | 70.3 |
| Total | Lumens | 2550.4 | 0.0 | 2550.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.5 | 2.3 |
| 10°-20° | 162.7 | 6.4 |
| 20°-30° | 275.7 | 10.8 |
| 30°-40° | 422.0 | 16.5 |
| 40°-50° | 562.7 | 22.1 |
| 50°-60° | 649.9 | 25.5 |
| 60°-70° | 337.7 | 13.2 |
| 70°-80° | 71.8 | 2.8 |
| 80°-90° | 9.3 | 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° | 2550.4 | 100.0 |
| 0°-180° | 2550.4 | 100.0 |

Coefficient of Utilization



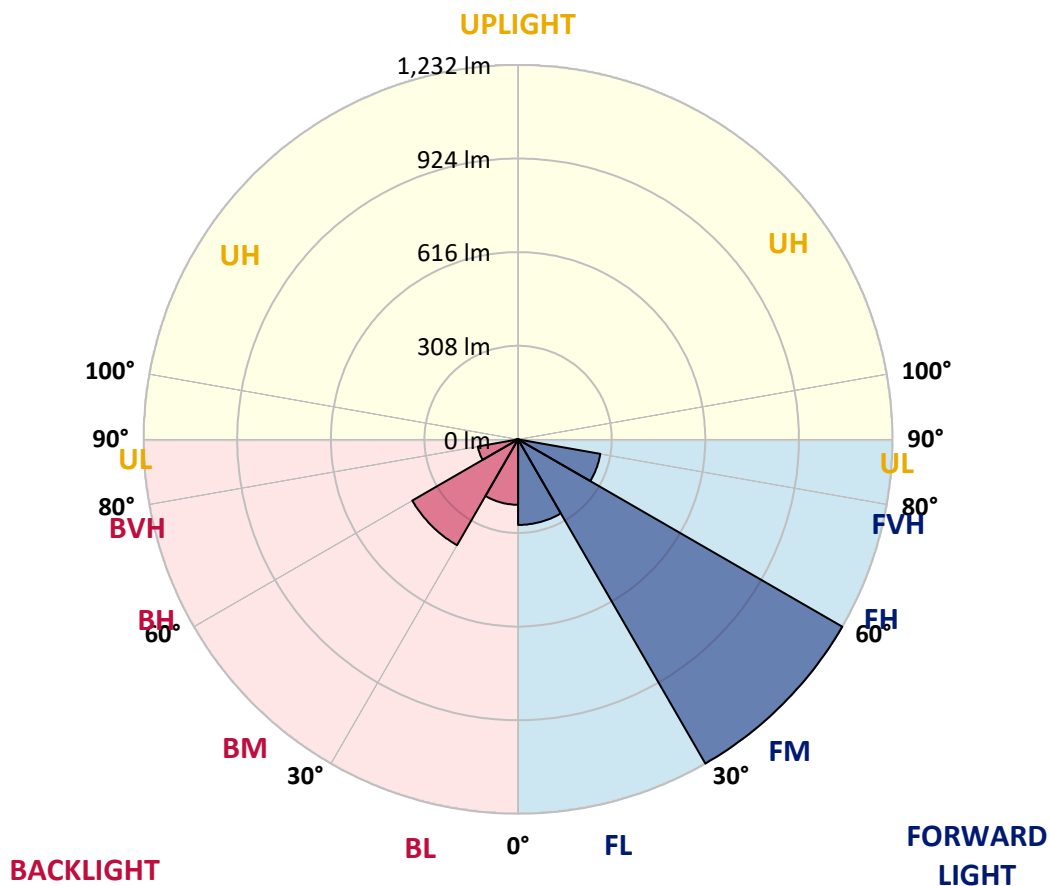
REPORT NUMBER: P628933

CATALOG NUMBER: GWS-SA1A-750-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 281.6 | 11.0 | | | |
| FM (30°-60°) | 1232.4 | 48.3 | | | |
| FH (60°-80°) | 275.0 | 10.8 | | | G0/660 |
| FVH (80°-90°) | 3.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 215.3 | 8.4 | B1/500 | | |
| BM (30°-60°) | 402.2 | 15.8 | B1/1000 | | |
| BH (60°-80°) | 134.5 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.1 | 0.2 | | | G0/10 |
| 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: P628933

CATALOG NUMBER: GWS-SA1A-750-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 |
| 2.5° | 603.3 | 602.0 | 602.4 | 604.1 | 610.4 | 614.9 | 619.7 | 624.1 | 628.3 | 629.5 | 630.6 |
| 5° | 581.8 | 579.5 | 580.1 | 582.8 | 590.1 | 597.8 | 606.4 | 616.8 | 626.8 | 630.2 | 634.6 |
| 7.5° | 566.6 | 566.2 | 567.2 | 571.4 | 579.1 | 586.4 | 597.4 | 612.2 | 629.5 | 635.2 | 642.9 |
| 10° | 546.3 | 545.5 | 549.7 | 558.2 | 570.9 | 582.6 | 595.8 | 613.3 | 637.5 | 645.8 | 657.7 |
| 12.5° | 530.3 | 529.9 | 534.2 | 546.1 | 562.4 | 581.0 | 599.1 | 618.7 | 648.1 | 659.6 | 674.2 |
| 15° | 539.7 | 537.8 | 538.0 | 546.3 | 560.9 | 582.8 | 607.4 | 628.5 | 658.7 | 673.3 | 692.1 |
| 17.5° | 567.0 | 563.7 | 561.1 | 562.6 | 570.9 | 593.7 | 620.2 | 641.6 | 671.0 | 688.1 | 711.1 |
| 20° | 604.7 | 602.9 | 596.0 | 591.4 | 593.3 | 613.3 | 640.2 | 660.2 | 687.1 | 706.3 | 730.9 |
| 22.5° | 655.4 | 650.8 | 641.4 | 634.1 | 628.5 | 644.1 | 669.0 | 686.3 | 709.4 | 729.4 | 755.1 |
| 25° | 718.2 | 711.5 | 696.7 | 685.2 | 673.1 | 689.2 | 711.3 | 724.4 | 740.1 | 758.6 | 783.0 |
| 27.5° | 782.2 | 776.6 | 760.1 | 744.7 | 729.6 | 739.6 | 765.9 | 773.4 | 771.8 | 785.3 | 806.2 |
| 30° | 850.4 | 843.3 | 827.6 | 811.0 | 791.6 | 798.0 | 821.6 | 825.4 | 807.6 | 818.9 | 833.1 |
| 32.5° | 922.3 | 915.4 | 901.9 | 882.5 | 860.6 | 863.1 | 869.6 | 873.1 | 856.2 | 862.7 | 873.5 |
| 35° | 995.5 | 989.0 | 975.3 | 956.1 | 940.0 | 924.8 | 908.6 | 922.7 | 912.9 | 925.4 | 924.6 |
| 37.5° | 1062.4 | 1056.0 | 1047.4 | 1032.6 | 1005.1 | 975.1 | 937.5 | 955.1 | 970.3 | 986.1 | 983.4 |
| 40° | 1107.7 | 1103.3 | 1105.4 | 1103.1 | 1067.7 | 1008.2 | 951.7 | 970.9 | 1012.4 | 1039.5 | 1038.1 |
| 42.5° | 1146.7 | 1142.3 | 1154.4 | 1163.2 | 1121.5 | 1038.9 | 958.6 | 977.0 | 1039.3 | 1081.6 | 1079.5 |
| 45° | 1164.0 | 1162.8 | 1182.8 | 1210.5 | 1170.7 | 1071.4 | 976.3 | 989.5 | 1059.7 | 1114.0 | 1106.0 |
| 47.5° | 1143.4 | 1147.7 | 1187.1 | 1234.1 | 1211.5 | 1110.0 | 1012.6 | 1015.9 | 1086.4 | 1149.0 | 1126.7 |
| 50° | 1102.3 | 1111.9 | 1165.0 | 1234.7 | 1241.4 | 1153.6 | 1062.9 | 1054.5 | 1122.3 | 1186.3 | 1137.5 |
| 52.5° | 1042.4 | 1052.4 | 1139.2 | 1229.9 | 1258.5 | 1204.0 | 1129.8 | 1117.9 | 1167.5 | 1223.6 | 1139.4 |
| 55° | 905.0 | 918.6 | 1080.0 | 1219.1 | 1275.1 | 1249.9 | 1205.3 | 1181.1 | 1225.9 | 1274.9 | 1158.0 |
| 57.5° | 785.1 | 792.2 | 935.7 | 1170.9 | 1278.5 | 1283.7 | 1259.1 | 1230.3 | 1283.9 | 1330.4 | 1178.8 |
| 60° | 576.2 | 577.8 | 706.9 | 968.8 | 1176.1 | 1264.1 | 1254.7 | 1212.0 | 1256.4 | 1286.0 | 1083.3 |
| 62.5° | 325.5 | 325.7 | 428.7 | 646.6 | 878.5 | 1030.3 | 1036.2 | 998.4 | 961.1 | 969.9 | 754.0 |
| 65° | 122.2 | 133.7 | 195.8 | 317.8 | 506.5 | 608.3 | 632.5 | 641.2 | 579.1 | 540.5 | 404.3 |
| 67.5° | 81.7 | 84.5 | 114.3 | 163.5 | 225.4 | 260.2 | 291.1 | 291.9 | 213.5 | 190.4 | 159.3 |
| 70° | 62.3 | 65.1 | 89.9 | 117.0 | 114.3 | 105.5 | 114.1 | 110.9 | 114.7 | 117.8 | 121.2 |
| 72.5° | 46.5 | 49.2 | 69.6 | 82.6 | 68.6 | 67.6 | 76.5 | 85.1 | 93.0 | 96.3 | 101.6 |
| 75° | 30.9 | 32.9 | 46.9 | 44.2 | 38.0 | 44.8 | 55.9 | 64.4 | 69.0 | 73.0 | 76.9 |
| 77.5° | 19.6 | 21.1 | 25.0 | 20.2 | 21.1 | 26.3 | 32.5 | 40.2 | 44.6 | 48.6 | 50.7 |
| 80° | 9.0 | 8.8 | 8.5 | 9.6 | 11.9 | 15.4 | 19.6 | 24.2 | 27.5 | 29.2 | 30.4 |
| 82.5° | 3.5 | 4.0 | 4.4 | 5.2 | 6.5 | 8.3 | 11.1 | 14.2 | 16.9 | 17.3 | 18.4 |
| 85° | 1.5 | 1.7 | 1.9 | 2.3 | 2.9 | 3.8 | 4.6 | 6.5 | 8.1 | 8.8 | 9.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.6 | 1.0 | 1.9 | 2.1 | 2.3 |
| 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: P628933
 CATALOG NUMBER: GWS-SA1A-750-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 | 632.0 |
| 2.5° | 636.2 | 633.5 | 638.1 | 641.2 | 644.1 | 641.0 | 640.0 | 637.3 | 636.8 | 636.8 | 638.3 |
| 5° | 642.1 | 640.2 | 645.0 | 646.9 | 646.6 | 639.8 | 635.6 | 630.2 | 627.5 | 627.5 | 627.9 |
| 7.5° | 652.5 | 651.4 | 654.2 | 651.2 | 644.6 | 630.6 | 616.8 | 605.4 | 597.6 | 593.7 | 594.9 |
| 10° | 669.8 | 668.5 | 666.2 | 655.4 | 636.2 | 607.2 | 579.1 | 558.2 | 545.7 | 538.6 | 539.0 |
| 12.5° | 686.7 | 684.6 | 676.5 | 652.5 | 613.1 | 567.0 | 530.1 | 506.7 | 493.0 | 484.6 | 482.7 |
| 15° | 705.2 | 699.8 | 682.3 | 637.5 | 575.3 | 517.8 | 479.2 | 454.0 | 439.2 | 434.2 | 433.9 |
| 17.5° | 723.0 | 713.4 | 681.7 | 610.8 | 530.1 | 466.3 | 427.5 | 411.8 | 409.3 | 411.6 | 412.3 |
| 20° | 740.9 | 725.5 | 674.8 | 573.9 | 476.3 | 415.0 | 395.0 | 401.4 | 410.8 | 417.1 | 418.5 |
| 22.5° | 759.5 | 735.5 | 659.2 | 526.3 | 419.6 | 380.4 | 388.7 | 402.9 | 414.6 | 422.9 | 423.7 |
| 25° | 780.3 | 744.9 | 635.8 | 468.1 | 374.1 | 370.8 | 387.2 | 402.3 | 414.8 | 424.4 | 426.0 |
| 27.5° | 792.2 | 745.1 | 603.1 | 408.3 | 353.2 | 367.0 | 383.7 | 397.9 | 410.4 | 420.8 | 422.7 |
| 30° | 803.9 | 739.4 | 551.1 | 359.7 | 347.2 | 362.6 | 377.6 | 390.8 | 402.7 | 412.9 | 415.2 |
| 32.5° | 820.3 | 734.2 | 491.3 | 331.8 | 343.7 | 358.5 | 370.8 | 382.4 | 391.6 | 396.2 | 397.5 |
| 35° | 840.8 | 727.6 | 427.7 | 319.7 | 341.4 | 355.1 | 366.0 | 372.2 | 360.3 | 357.8 | 360.5 |
| 37.5° | 869.4 | 721.3 | 364.3 | 314.5 | 339.9 | 353.9 | 363.5 | 347.4 | 332.8 | 327.0 | 329.1 |
| 40° | 900.2 | 717.8 | 321.3 | 310.3 | 340.5 | 355.1 | 353.0 | 329.3 | 308.2 | 295.9 | 295.5 |
| 42.5° | 926.5 | 712.3 | 293.8 | 307.6 | 342.2 | 359.9 | 338.9 | 313.2 | 281.9 | 274.6 | 274.8 |
| 45° | 944.2 | 698.6 | 279.2 | 304.7 | 343.7 | 361.0 | 332.2 | 291.1 | 268.8 | 264.2 | 264.0 |
| 47.5° | 951.5 | 673.5 | 269.8 | 300.1 | 343.4 | 352.4 | 318.6 | 281.9 | 259.6 | 258.4 | 259.2 |
| 50° | 946.7 | 632.5 | 260.2 | 291.1 | 338.4 | 343.4 | 303.0 | 273.8 | 253.4 | 260.2 | 265.2 |
| 52.5° | 929.0 | 579.3 | 248.8 | 278.8 | 329.5 | 333.2 | 295.1 | 268.8 | 248.8 | 257.9 | 261.9 |
| 55° | 924.4 | 536.1 | 234.2 | 262.7 | 316.1 | 315.1 | 286.7 | 266.3 | 245.6 | 242.1 | 242.7 |
| 57.5° | 918.4 | 494.0 | 210.0 | 234.0 | 282.3 | 284.0 | 278.8 | 263.4 | 237.5 | 236.5 | 237.5 |
| 60° | 797.8 | 378.7 | 187.3 | 201.9 | 231.9 | 240.8 | 269.8 | 257.9 | 224.4 | 220.0 | 219.8 |
| 62.5° | 521.1 | 229.4 | 166.6 | 176.0 | 188.9 | 199.4 | 246.1 | 242.3 | 210.0 | 207.3 | 209.2 |
| 65° | 280.3 | 163.5 | 151.6 | 157.2 | 164.3 | 172.2 | 203.9 | 215.8 | 189.8 | 180.2 | 180.4 |
| 67.5° | 143.3 | 139.1 | 140.3 | 144.3 | 149.7 | 153.7 | 164.5 | 175.0 | 161.8 | 153.7 | 153.5 |
| 70° | 122.6 | 126.0 | 127.8 | 130.1 | 133.7 | 133.0 | 134.1 | 136.0 | 134.9 | 131.0 | 130.7 |
| 72.5° | 104.5 | 109.7 | 110.1 | 110.5 | 111.8 | 108.9 | 107.0 | 103.8 | 104.1 | 104.7 | 104.9 |
| 75° | 79.4 | 84.5 | 85.7 | 85.1 | 86.3 | 82.6 | 80.1 | 76.9 | 73.2 | 72.6 | 73.0 |
| 77.5° | 51.7 | 55.7 | 57.6 | 57.1 | 57.8 | 54.8 | 53.6 | 50.3 | 45.9 | 44.2 | 44.2 |
| 80° | 31.3 | 33.6 | 35.0 | 35.4 | 36.1 | 34.0 | 31.9 | 29.0 | 27.1 | 25.2 | 25.2 |
| 82.5° | 19.0 | 20.4 | 21.5 | 21.5 | 22.1 | 19.8 | 18.1 | 16.1 | 15.2 | 13.6 | 13.6 |
| 85° | 9.6 | 10.6 | 11.1 | 10.8 | 10.4 | 8.5 | 7.9 | 6.9 | 6.5 | 5.6 | 5.6 |
| 87.5° | 2.3 | 2.9 | 2.9 | 2.1 | 2.1 | 1.0 | 0.6 | 0.2 | 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)