

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: P629005

Luminaire Tested: GWS-SA1A-827-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-827-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1896.5 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

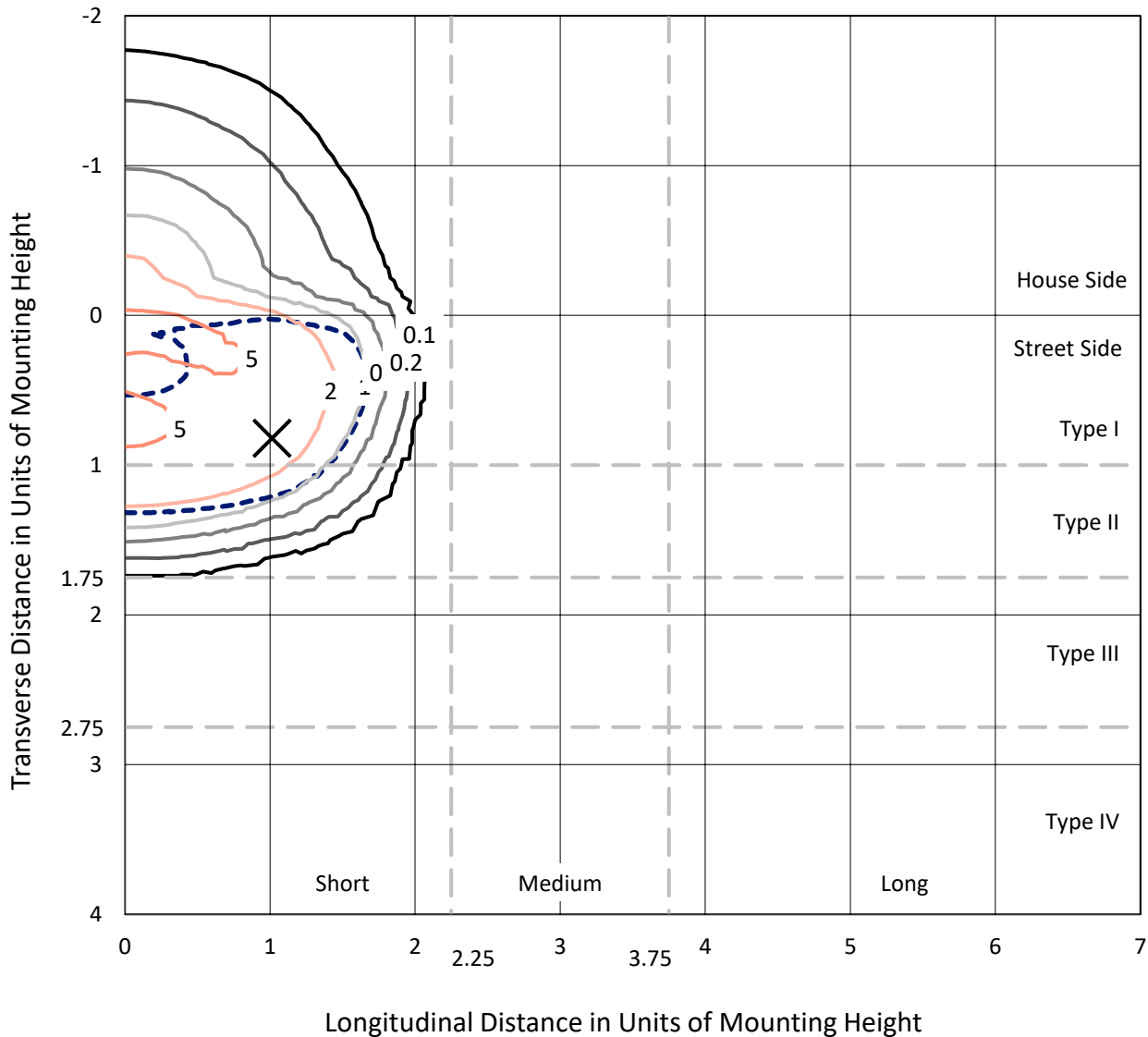
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

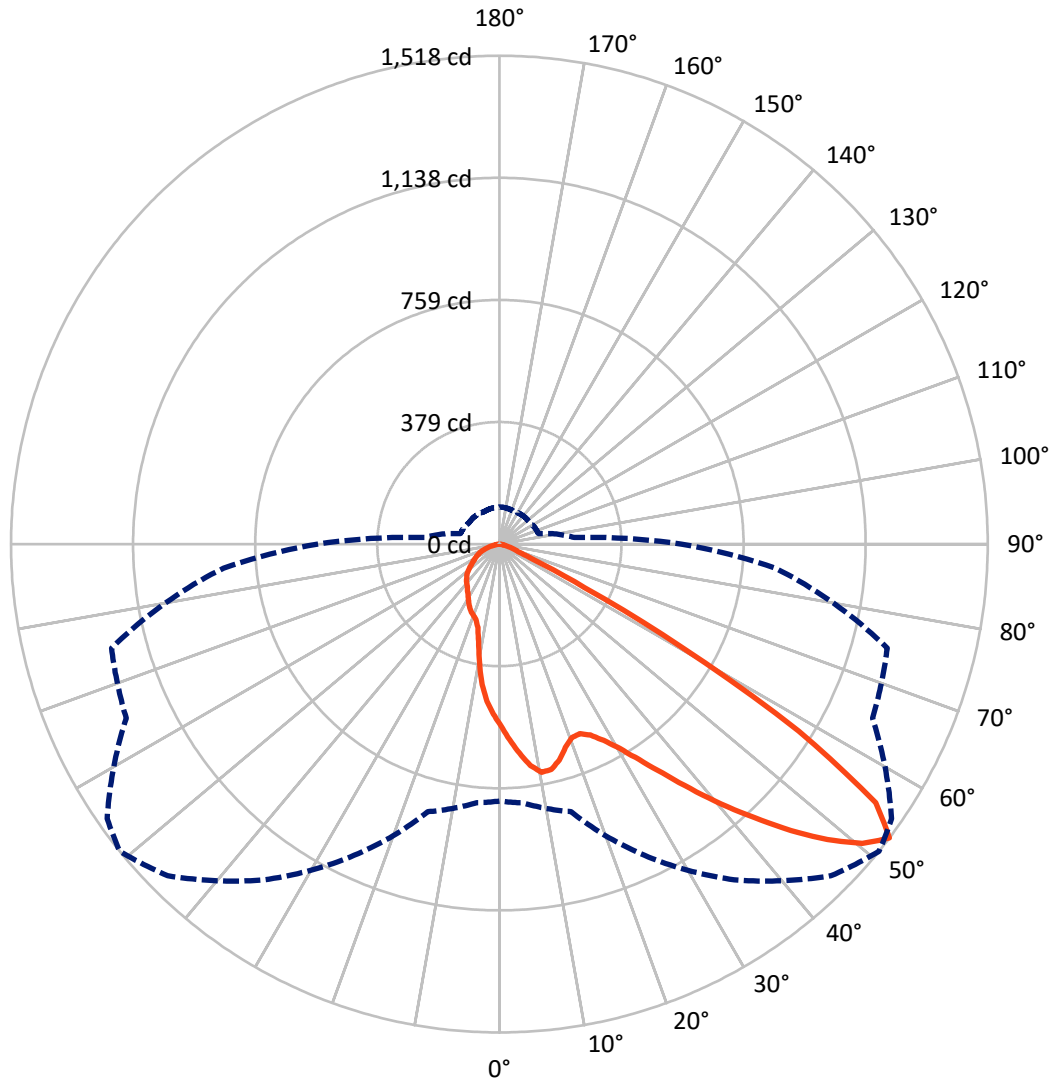
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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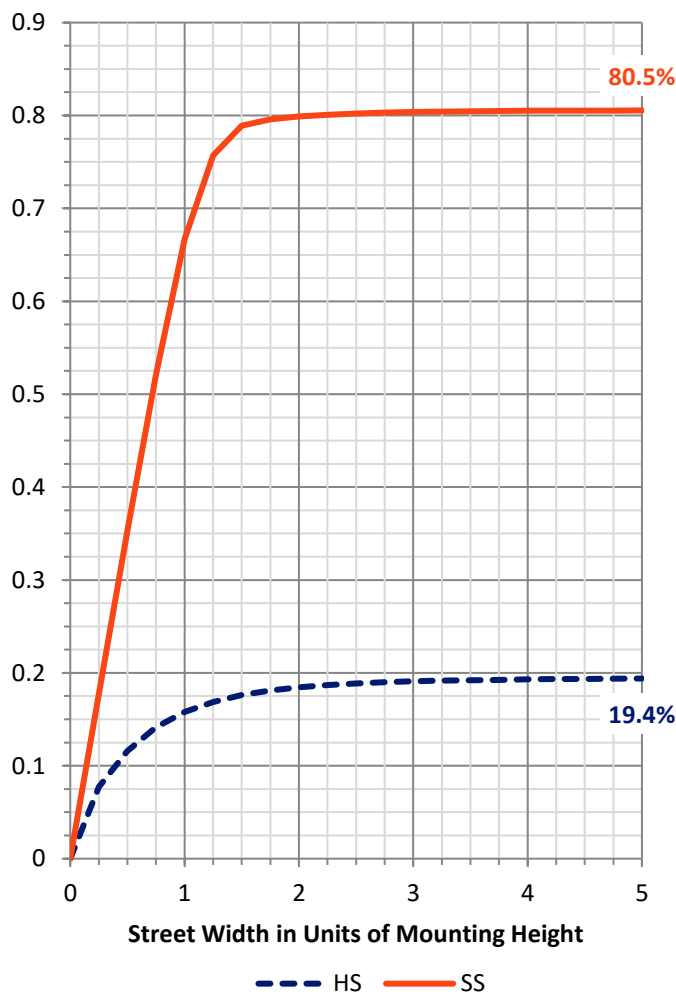
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 369.5 | 0.0 | 369.5 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 1527.0 | 0.0 | 1527.0 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 1896.5 | 0.0 | 1896.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.7 | 2.8 |
| 10°-20° | 136.9 | 7.2 |
| 20°-30° | 222.6 | 11.7 |
| 30°-40° | 352.8 | 18.6 |
| 40°-50° | 532.1 | 28.1 |
| 50°-60° | 460.3 | 24.3 |
| 60°-70° | 104.4 | 5.5 |
| 70°-80° | 30.8 | 1.6 |
| 80°-90° | 3.9 | 0.2 |
| 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° | 1896.5 | 100.0 |
| 0°-180° | 1896.5 | 100.0 |

Coefficient of Utilization



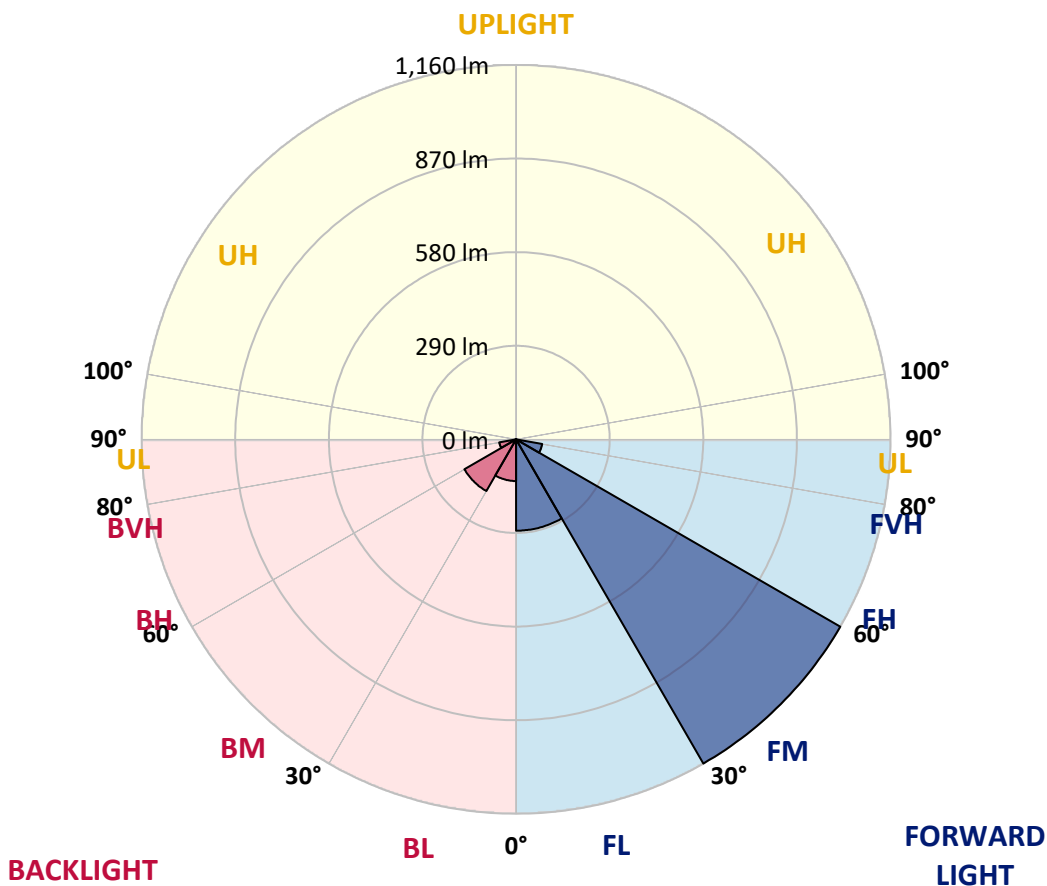
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 283.1 | 14.9 | | | |
| FM (30°-60°) | 1160.3 | 61.2 | | | |
| FH (60°-80°) | 82.1 | 4.3 | | | G0/660 |
| FVH (80°-90°) | 1.5 | 0.1 | | | G0/10 |
| BL (0°-30°) | 129.2 | 6.8 | B1/500 | | |
| BM (30°-60°) | 184.9 | 9.7 | B0/220 | | |
| BH (60°-80°) | 53.0 | 2.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.5 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 51° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 |
| 2.5° | 629.3 | 632.9 | 627.3 | 625.2 | 621.8 | 615.8 | 608.9 | 606.9 | 592.1 | 582.4 | 571.4 |
| 5° | 692.5 | 694.5 | 690.0 | 685.5 | 676.9 | 666.3 | 653.0 | 650.1 | 623.1 | 600.8 | 577.6 |
| 7.5° | 706.6 | 705.9 | 709.7 | 712.3 | 711.2 | 707.1 | 695.2 | 689.7 | 657.4 | 622.1 | 587.8 |
| 10° | 650.9 | 646.7 | 661.0 | 678.1 | 698.7 | 722.3 | 721.0 | 720.5 | 692.5 | 650.7 | 600.8 |
| 12.5° | 577.0 | 574.9 | 586.6 | 608.0 | 646.8 | 699.3 | 718.9 | 734.2 | 724.1 | 678.0 | 615.3 |
| 15° | 534.7 | 534.0 | 541.9 | 557.3 | 588.2 | 654.5 | 696.4 | 726.7 | 751.3 | 707.2 | 630.8 |
| 17.5° | 527.1 | 527.5 | 530.2 | 539.1 | 561.2 | 615.8 | 664.3 | 706.6 | 772.4 | 739.3 | 650.1 |
| 20° | 549.4 | 552.4 | 547.7 | 549.1 | 561.1 | 601.8 | 642.5 | 686.4 | 785.9 | 771.5 | 670.9 |
| 22.5° | 599.0 | 598.0 | 587.8 | 581.8 | 581.9 | 610.4 | 640.1 | 676.9 | 794.7 | 802.8 | 689.8 |
| 25° | 655.2 | 654.0 | 641.9 | 628.5 | 620.1 | 633.6 | 657.3 | 687.0 | 802.7 | 831.4 | 705.0 |
| 27.5° | 721.6 | 717.8 | 704.4 | 687.3 | 668.7 | 674.5 | 690.6 | 714.1 | 815.0 | 859.6 | 715.0 |
| 30° | 785.9 | 790.2 | 770.9 | 750.7 | 731.0 | 727.4 | 736.7 | 758.0 | 840.0 | 892.6 | 727.0 |
| 32.5° | 871.2 | 869.7 | 848.2 | 821.8 | 793.8 | 791.1 | 798.5 | 818.0 | 884.9 | 938.1 | 745.3 |
| 35° | 974.4 | 974.7 | 944.3 | 908.6 | 868.8 | 861.6 | 873.8 | 892.7 | 951.9 | 999.9 | 774.2 |
| 37.5° | 1081.7 | 1081.3 | 1054.7 | 1014.3 | 959.9 | 949.7 | 963.8 | 977.9 | 1035.7 | 1084.0 | 819.1 |
| 40° | 1156.9 | 1159.9 | 1147.5 | 1126.2 | 1074.7 | 1049.8 | 1062.2 | 1072.0 | 1126.8 | 1182.9 | 878.3 |
| 42.5° | 1199.7 | 1204.1 | 1206.8 | 1219.6 | 1192.5 | 1165.9 | 1161.4 | 1166.5 | 1208.2 | 1274.7 | 933.9 |
| 45° | 1208.8 | 1214.8 | 1234.4 | 1281.6 | 1292.1 | 1284.6 | 1269.9 | 1257.6 | 1268.9 | 1339.9 | 970.4 |
| 47.5° | 1168.5 | 1179.0 | 1220.9 | 1303.5 | 1364.8 | 1388.3 | 1372.0 | 1353.3 | 1304.0 | 1356.7 | 966.6 |
| 50° | 1008.7 | 1021.0 | 1115.6 | 1258.8 | 1375.1 | 1460.9 | 1462.4 | 1434.6 | 1299.8 | 1308.3 | 919.6 |
| 52.5° | 798.6 | 807.0 | 861.1 | 1067.2 | 1273.7 | 1457.9 | 1517.8 | 1488.1 | 1279.5 | 1247.8 | 860.7 |
| 55° | 477.3 | 490.8 | 541.3 | 704.1 | 992.2 | 1292.1 | 1419.8 | 1434.2 | 1269.6 | 1197.0 | 820.5 |
| 57.5° | 161.1 | 167.7 | 216.0 | 311.0 | 584.8 | 946.1 | 1097.0 | 1155.4 | 1152.6 | 1119.3 | 742.1 |
| 60° | 76.7 | 78.2 | 88.0 | 117.9 | 234.1 | 494.4 | 649.4 | 716.8 | 778.2 | 784.4 | 461.7 |
| 62.5° | 58.4 | 59.3 | 64.3 | 70.7 | 94.1 | 208.3 | 297.6 | 349.2 | 373.0 | 320.1 | 168.1 |
| 65° | 48.9 | 49.6 | 53.4 | 57.4 | 64.0 | 90.2 | 114.2 | 131.7 | 118.7 | 92.5 | 80.2 |
| 67.5° | 40.8 | 41.4 | 44.2 | 48.6 | 53.1 | 60.4 | 63.4 | 65.2 | 68.3 | 76.7 | 73.7 |
| 70° | 31.9 | 32.5 | 35.5 | 39.3 | 43.6 | 45.4 | 48.3 | 50.1 | 56.3 | 67.1 | 66.8 |
| 72.5° | 24.6 | 25.3 | 27.0 | 29.4 | 33.0 | 34.8 | 37.9 | 40.0 | 43.6 | 52.3 | 55.9 |
| 75° | 18.0 | 18.4 | 19.9 | 20.7 | 21.1 | 20.7 | 23.8 | 26.2 | 31.0 | 34.3 | 35.2 |
| 77.5° | 7.3 | 8.2 | 7.9 | 7.9 | 9.4 | 11.4 | 13.0 | 14.5 | 17.8 | 19.8 | 19.9 |
| 80° | 3.0 | 3.3 | 3.9 | 4.3 | 5.2 | 6.7 | 7.8 | 8.4 | 9.9 | 11.1 | 12.0 |
| 82.5° | 1.8 | 1.9 | 2.2 | 2.4 | 3.0 | 3.9 | 4.5 | 4.9 | 6.1 | 7.3 | 7.8 |
| 85° | 0.9 | 0.9 | 1.0 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 3.1 | 3.9 | 4.3 |
| 87.5° | 0.1 | 0.1 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 0.9 | 1.0 | 1.2 | 1.5 |
| 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-SA1A-827-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 |
| 2.5° | 565.0 | 556.9 | 547.4 | 540.0 | 531.3 | 524.8 | 515.7 | 510.0 | 504.6 | 500.1 | 496.8 |
| 5° | 565.6 | 551.9 | 532.3 | 514.9 | 496.9 | 479.9 | 462.3 | 448.1 | 435.4 | 424.7 | 423.8 |
| 7.5° | 569.0 | 549.4 | 518.7 | 488.3 | 453.2 | 419.3 | 385.4 | 357.9 | 336.9 | 326.0 | 323.7 |
| 10° | 574.9 | 549.1 | 504.7 | 456.2 | 396.4 | 341.8 | 301.7 | 280.7 | 268.6 | 264.2 | 262.7 |
| 12.5° | 581.0 | 548.3 | 486.9 | 410.9 | 327.9 | 280.1 | 258.1 | 255.5 | 257.8 | 258.1 | 257.9 |
| 15° | 588.5 | 547.9 | 464.4 | 357.9 | 277.8 | 251.5 | 253.0 | 258.4 | 263.6 | 264.8 | 264.8 |
| 17.5° | 597.7 | 546.8 | 433.9 | 306.0 | 246.5 | 245.9 | 253.9 | 261.1 | 266.0 | 266.9 | 266.9 |
| 20° | 607.2 | 544.2 | 396.2 | 263.8 | 233.8 | 242.5 | 251.0 | 256.6 | 260.0 | 261.2 | 261.4 |
| 22.5° | 613.8 | 537.0 | 352.9 | 232.4 | 225.8 | 235.9 | 242.0 | 247.7 | 247.7 | 244.7 | 243.8 |
| 25° | 615.2 | 521.5 | 306.0 | 211.0 | 216.4 | 225.7 | 232.0 | 228.7 | 222.5 | 220.1 | 220.0 |
| 27.5° | 610.2 | 499.0 | 259.7 | 195.7 | 205.0 | 214.3 | 213.3 | 208.5 | 205.8 | 203.4 | 204.3 |
| 30° | 604.2 | 472.1 | 219.5 | 183.1 | 191.8 | 201.0 | 197.4 | 195.7 | 193.8 | 191.1 | 191.7 |
| 32.5° | 600.2 | 441.9 | 188.7 | 173.4 | 183.0 | 184.5 | 187.0 | 186.9 | 185.1 | 180.0 | 179.7 |
| 35° | 601.4 | 411.5 | 168.0 | 165.4 | 175.6 | 175.0 | 179.8 | 178.9 | 166.5 | 159.5 | 159.0 |
| 37.5° | 611.0 | 382.3 | 155.9 | 159.2 | 163.9 | 167.7 | 171.9 | 161.1 | 156.8 | 152.3 | 152.6 |
| 40° | 629.3 | 355.2 | 149.3 | 155.7 | 156.9 | 162.5 | 152.7 | 152.6 | 150.6 | 146.6 | 146.4 |
| 42.5° | 650.0 | 332.2 | 144.8 | 154.1 | 152.4 | 153.5 | 143.1 | 144.3 | 144.2 | 141.6 | 140.9 |
| 45° | 662.5 | 311.1 | 141.2 | 147.9 | 148.4 | 137.9 | 134.7 | 136.1 | 136.8 | 135.5 | 135.3 |
| 47.5° | 649.5 | 286.8 | 137.4 | 138.5 | 142.4 | 130.8 | 126.9 | 127.1 | 128.4 | 128.6 | 128.0 |
| 50° | 612.9 | 259.7 | 132.9 | 130.4 | 127.8 | 123.5 | 119.9 | 119.1 | 120.5 | 121.8 | 122.3 |
| 52.5° | 565.7 | 233.8 | 125.4 | 121.5 | 115.5 | 115.5 | 113.9 | 111.5 | 113.3 | 115.1 | 115.7 |
| 55° | 531.1 | 214.6 | 114.8 | 110.4 | 103.9 | 106.1 | 105.8 | 103.7 | 106.1 | 107.5 | 107.9 |
| 57.5° | 460.2 | 172.5 | 101.0 | 99.7 | 94.1 | 96.8 | 97.4 | 94.7 | 93.5 | 93.8 | 94.3 |
| 60° | 273.2 | 111.3 | 91.1 | 91.0 | 86.0 | 89.2 | 91.0 | 88.3 | 84.7 | 85.1 | 85.7 |
| 62.5° | 122.6 | 85.1 | 78.7 | 78.1 | 77.9 | 82.0 | 83.9 | 81.4 | 76.3 | 76.7 | 77.3 |
| 65° | 77.2 | 73.6 | 68.3 | 68.3 | 70.7 | 74.2 | 75.7 | 73.6 | 67.7 | 67.0 | 67.6 |
| 67.5° | 71.6 | 68.5 | 63.1 | 62.0 | 63.2 | 66.1 | 66.2 | 62.2 | 58.7 | 58.1 | 58.1 |
| 70° | 64.3 | 61.9 | 56.6 | 54.6 | 54.1 | 54.0 | 53.5 | 52.5 | 50.2 | 49.6 | 49.9 |
| 72.5° | 53.2 | 51.6 | 48.3 | 46.0 | 44.8 | 44.7 | 42.9 | 42.0 | 40.0 | 39.7 | 39.6 |
| 75° | 35.2 | 35.7 | 35.7 | 35.4 | 34.3 | 33.9 | 31.9 | 31.0 | 28.8 | 27.9 | 27.7 |
| 77.5° | 20.8 | 21.3 | 21.9 | 22.0 | 21.9 | 21.9 | 20.1 | 19.0 | 16.8 | 15.6 | 15.3 |
| 80° | 12.7 | 13.0 | 13.3 | 13.8 | 13.2 | 12.7 | 11.1 | 10.0 | 9.0 | 8.2 | 8.1 |
| 82.5° | 8.2 | 8.5 | 8.7 | 9.0 | 8.7 | 8.1 | 6.7 | 6.1 | 5.4 | 4.8 | 4.6 |
| 85° | 4.6 | 4.8 | 5.1 | 5.1 | 4.6 | 4.2 | 3.4 | 3.0 | 2.5 | 2.2 | 2.2 |
| 87.5° | 1.6 | 1.6 | 1.6 | 1.8 | 1.5 | 1.3 | 0.9 | 0.6 | 0.4 | 0.4 | 0.4 |
| 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)