

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: P635566

Luminaire Tested: GWS-SA3E-722-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-722-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9807.9 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

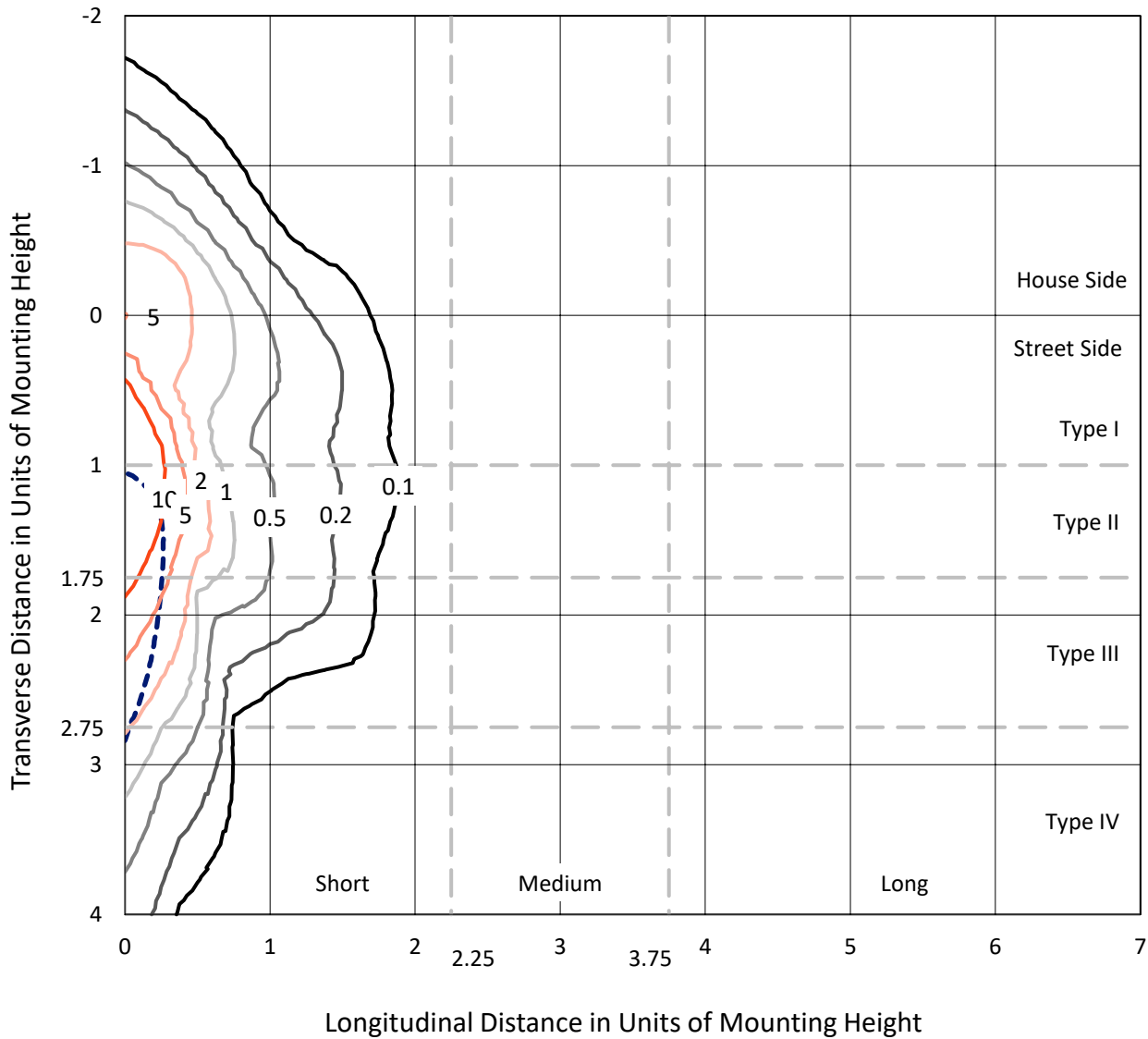
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

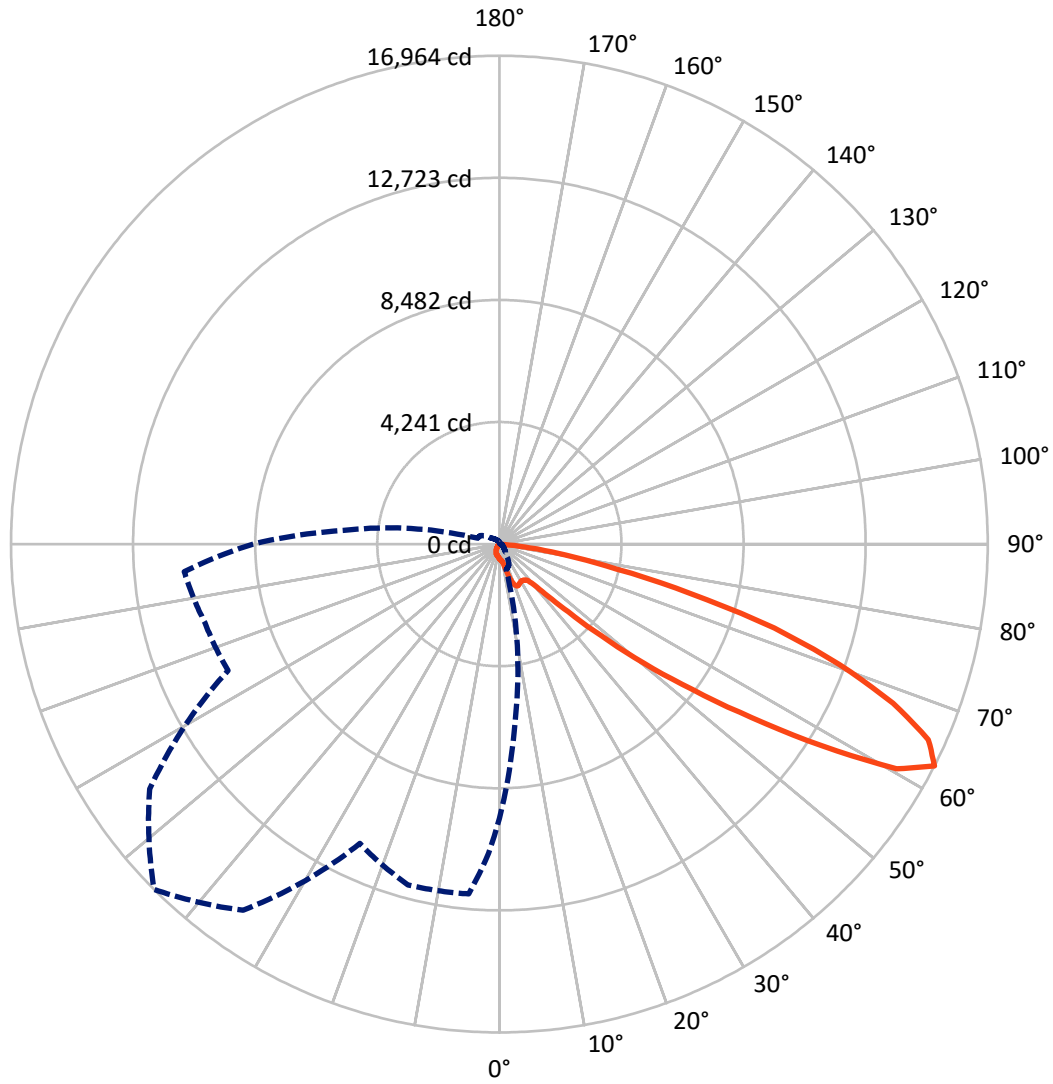
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 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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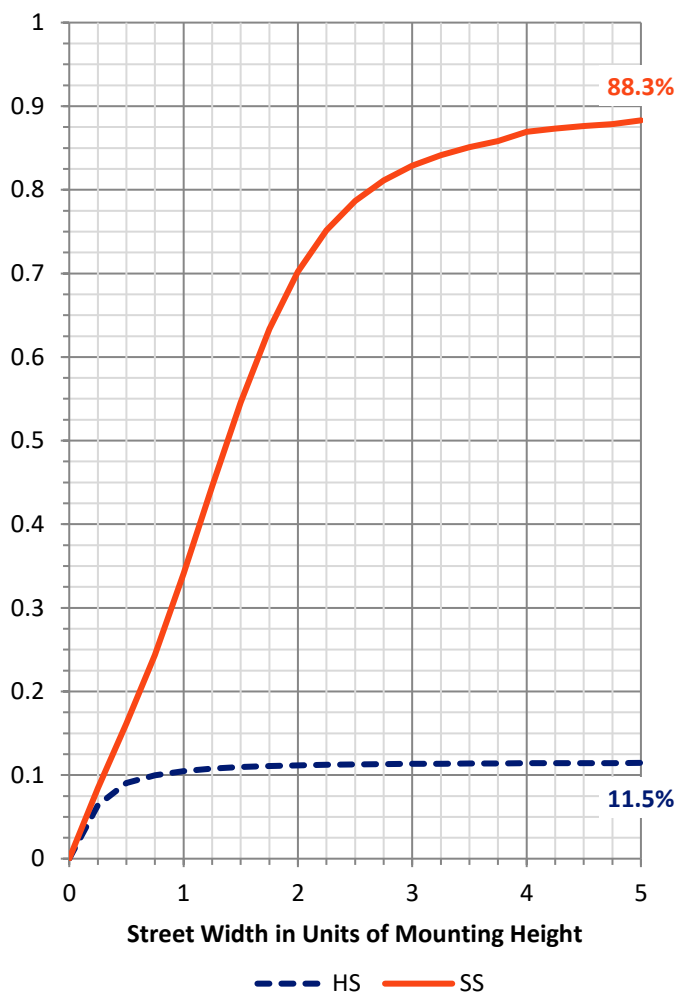
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1139.5 | 0.0 | 1139.5 |
| | % Fixture | 11.6 | 0.0 | 11.6 |
| Street Side | Lumens | 8668.3 | 0.0 | 8668.3 |
| | % Fixture | 88.4 | 0.0 | 88.4 |
| Total | Lumens | 9807.9 | 0.0 | 9807.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.9 | 0.4 |
| 10°-20° | 150.6 | 1.5 |
| 20°-30° | 340.1 | 3.5 |
| 30°-40° | 585.9 | 6.0 |
| 40°-50° | 1105.3 | 11.3 |
| 50°-60° | 2467.8 | 25.2 |
| 60°-70° | 3300.6 | 33.7 |
| 70°-80° | 1655.1 | 16.9 |
| 80°-90° | 158.6 | 1.6 |
| 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° | 9807.9 | 100.0 |
| 0°-180° | 9807.9 | 100.0 |

Coefficient of Utilization



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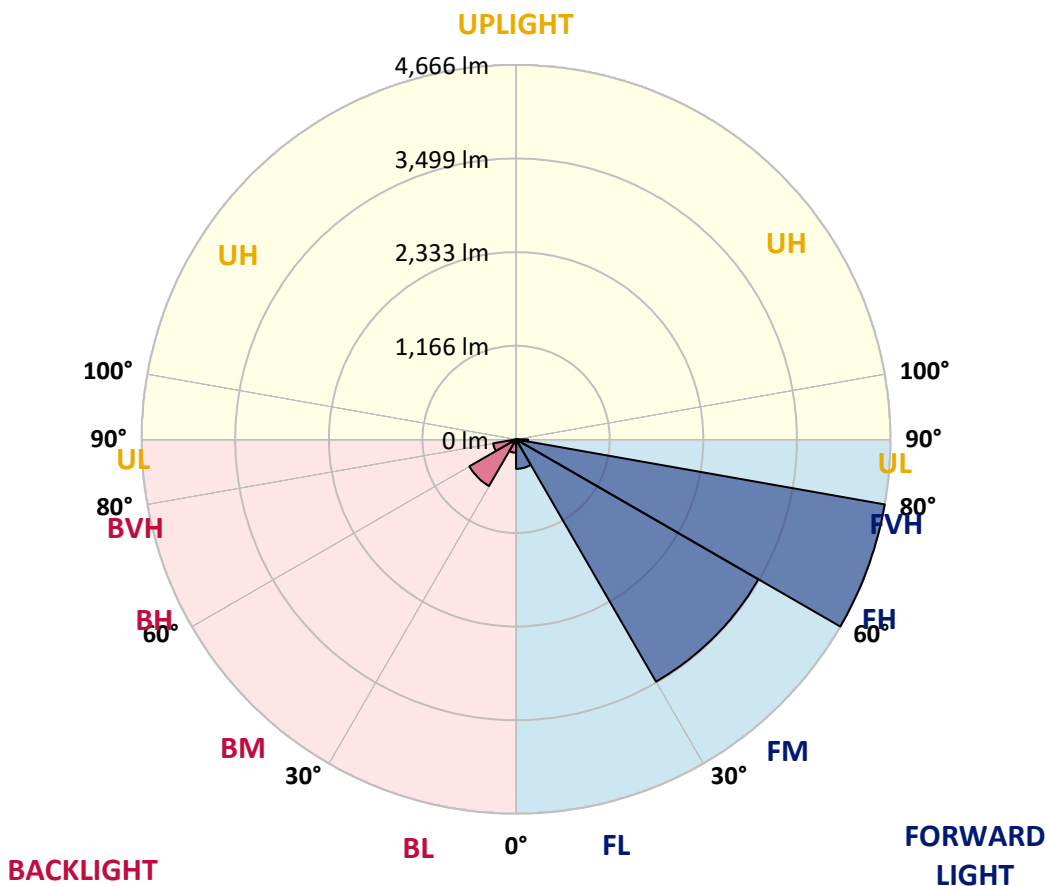
CATALOG NUMBER: GWS-SA3E-722-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 367.3 | 3.7 | | | |
| FM (30°-60°) | 3487.0 | 35.6 | | | |
| FH (60°-80°) | 4665.9 | 47.6 | | | G2/5000 |
| FVH (80°-90°) | 148.1 | 1.5 | | | G2/225 |
| BL (0°-30°) | 167.3 | 1.7 | B1/500 | | |
| BM (30°-60°) | 671.9 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 289.8 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.6 | 0.1 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 |
| 2.5° | 502.8 | 501.7 | 499.4 | 492.4 | 486.6 | 483.1 | 476.1 | 476.1 | 475.0 | 472.7 | 468.0 |
| 5° | 486.6 | 481.9 | 477.3 | 464.5 | 450.6 | 442.5 | 433.2 | 432.0 | 432.0 | 429.7 | 428.5 |
| 7.5° | 461.0 | 456.4 | 450.6 | 429.7 | 416.9 | 408.8 | 400.7 | 399.5 | 396.0 | 396.0 | 396.0 |
| 10° | 447.1 | 440.1 | 430.8 | 407.6 | 394.8 | 387.9 | 382.1 | 378.6 | 376.3 | 372.8 | 371.6 |
| 12.5° | 477.3 | 464.5 | 444.8 | 403.0 | 385.6 | 376.3 | 369.3 | 367.0 | 360.0 | 355.4 | 351.9 |
| 15° | 571.4 | 540.0 | 500.5 | 413.4 | 382.1 | 368.1 | 358.8 | 354.2 | 348.4 | 340.3 | 334.5 |
| 17.5° | 725.8 | 680.5 | 614.3 | 447.1 | 378.6 | 361.2 | 349.6 | 341.4 | 333.3 | 324.0 | 317.0 |
| 20° | 939.5 | 872.1 | 793.2 | 508.7 | 378.6 | 353.0 | 339.1 | 328.6 | 317.0 | 306.6 | 298.5 |
| 22.5° | 1211.2 | 1143.9 | 1009.2 | 613.2 | 383.2 | 342.6 | 326.3 | 312.4 | 298.5 | 289.2 | 279.9 |
| 25° | 1515.5 | 1420.3 | 1294.9 | 739.8 | 396.0 | 328.6 | 311.2 | 297.3 | 284.5 | 272.9 | 262.5 |
| 27.5° | 1854.6 | 1751.2 | 1584.0 | 919.8 | 423.9 | 314.7 | 295.0 | 282.2 | 270.6 | 259.0 | 245.0 |
| 30° | 2167.0 | 2105.4 | 1934.7 | 1135.8 | 469.2 | 305.4 | 282.2 | 270.6 | 259.0 | 243.9 | 231.1 |
| 32.5° | 2542.1 | 2432.9 | 2292.4 | 1382.0 | 529.6 | 296.1 | 271.7 | 255.5 | 246.2 | 232.3 | 218.3 |
| 35° | 2919.5 | 2826.6 | 2642.0 | 1685.1 | 596.9 | 286.8 | 259.0 | 243.9 | 235.7 | 219.5 | 204.4 |
| 37.5° | 3308.6 | 3287.7 | 3105.3 | 2020.7 | 663.1 | 276.4 | 243.9 | 234.6 | 226.5 | 207.9 | 190.5 |
| 40° | 3691.8 | 3653.5 | 3485.1 | 2403.9 | 703.8 | 264.8 | 231.1 | 225.3 | 216.0 | 195.1 | 175.4 |
| 42.5° | 4058.8 | 4029.7 | 3866.0 | 2770.9 | 697.9 | 254.3 | 218.3 | 211.4 | 204.4 | 183.5 | 159.1 |
| 45° | 4509.3 | 4461.7 | 4255.0 | 3042.6 | 638.7 | 265.9 | 205.6 | 193.9 | 192.8 | 173.0 | 142.8 |
| 47.5° | 5352.5 | 5195.7 | 4845.0 | 3251.7 | 579.5 | 296.1 | 191.6 | 177.7 | 185.8 | 162.6 | 126.6 |
| 50° | 6533.5 | 6348.9 | 5841.4 | 3414.2 | 578.3 | 335.6 | 189.3 | 162.6 | 180.0 | 154.5 | 112.6 |
| 52.5° | 7720.4 | 7395.2 | 6778.5 | 3501.3 | 621.3 | 364.6 | 210.2 | 147.5 | 173.0 | 146.3 | 102.2 |
| 55° | 8857.3 | 8182.6 | 7171.1 | 3213.3 | 655.0 | 396.0 | 248.5 | 139.4 | 160.3 | 137.0 | 96.4 |
| 57.5° | 9940.8 | 8815.5 | 7341.8 | 2542.1 | 767.6 | 408.8 | 271.7 | 142.8 | 141.7 | 125.4 | 91.7 |
| 60° | 10089.4 | 8785.3 | 6996.9 | 1478.3 | 846.6 | 386.7 | 262.5 | 159.1 | 124.3 | 111.5 | 83.6 |
| 62.5° | 9527.3 | 8201.1 | 6210.7 | 922.1 | 786.2 | 378.6 | 233.4 | 181.2 | 112.6 | 98.7 | 73.2 |
| 65° | 8673.8 | 7284.9 | 5178.3 | 594.6 | 595.7 | 420.4 | 204.4 | 177.7 | 105.7 | 87.1 | 62.7 |
| 67.5° | 7339.5 | 6096.9 | 4079.7 | 398.3 | 336.8 | 358.8 | 178.8 | 121.9 | 103.4 | 74.3 | 48.8 |
| 70° | 5357.1 | 4339.8 | 2655.9 | 265.9 | 200.9 | 286.8 | 149.8 | 87.1 | 97.5 | 61.5 | 34.8 |
| 72.5° | 3915.9 | 2916.0 | 1483.0 | 174.2 | 113.8 | 167.2 | 110.3 | 62.7 | 75.5 | 45.3 | 24.4 |
| 75° | 2818.5 | 2006.7 | 846.6 | 111.5 | 75.5 | 91.7 | 72.0 | 43.0 | 48.8 | 36.0 | 22.1 |
| 77.5° | 1356.4 | 977.8 | 384.4 | 61.5 | 51.1 | 46.5 | 38.3 | 26.7 | 30.2 | 32.5 | 19.7 |
| 80° | 51.1 | 38.3 | 29.0 | 30.2 | 32.5 | 20.9 | 17.4 | 13.9 | 17.4 | 22.1 | 10.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 3.5 | 4.6 | 5.8 | 7.0 | 5.8 | 7.0 | 8.1 | 1.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 |
| 2.5° | 471.5 | 469.2 | 471.5 | 473.8 | 476.1 | 478.5 | 475.0 | 477.3 | 479.6 | 473.8 | 476.1 |
| 5° | 434.3 | 433.2 | 440.1 | 443.6 | 448.3 | 450.6 | 448.3 | 448.3 | 447.1 | 440.1 | 440.1 |
| 7.5° | 401.8 | 403.0 | 408.8 | 416.9 | 422.7 | 426.2 | 423.9 | 422.7 | 419.2 | 408.8 | 408.8 |
| 10° | 377.4 | 377.4 | 386.7 | 393.7 | 401.8 | 405.3 | 403.0 | 399.5 | 396.0 | 385.6 | 384.4 |
| 12.5° | 357.7 | 357.7 | 364.6 | 376.3 | 385.6 | 390.2 | 389.0 | 384.4 | 378.6 | 368.1 | 367.0 |
| 15° | 339.1 | 337.9 | 348.4 | 358.8 | 371.6 | 377.4 | 375.1 | 371.6 | 361.2 | 351.9 | 349.6 |
| 17.5° | 320.5 | 319.4 | 328.6 | 342.6 | 356.5 | 364.6 | 363.5 | 355.4 | 346.1 | 334.5 | 332.1 |
| 20° | 301.9 | 299.6 | 311.2 | 325.2 | 339.1 | 347.2 | 344.9 | 337.9 | 326.3 | 314.7 | 312.4 |
| 22.5° | 283.4 | 282.2 | 290.3 | 301.9 | 314.7 | 321.7 | 320.5 | 314.7 | 303.1 | 292.6 | 292.6 |
| 25° | 262.5 | 262.5 | 268.3 | 276.4 | 285.7 | 289.2 | 290.3 | 288.0 | 281.0 | 275.2 | 275.2 |
| 27.5° | 245.0 | 241.6 | 243.9 | 246.2 | 250.8 | 256.6 | 256.6 | 259.0 | 260.1 | 257.8 | 259.0 |
| 30° | 231.1 | 225.3 | 221.8 | 217.2 | 214.8 | 217.2 | 219.5 | 227.6 | 235.7 | 240.4 | 242.7 |
| 32.5° | 214.8 | 207.9 | 198.6 | 185.8 | 177.7 | 175.4 | 182.3 | 197.4 | 212.5 | 223.0 | 228.8 |
| 35° | 198.6 | 189.3 | 171.9 | 153.3 | 142.8 | 139.4 | 147.5 | 164.9 | 187.0 | 205.6 | 213.7 |
| 37.5° | 182.3 | 169.6 | 145.2 | 123.1 | 111.5 | 109.2 | 117.3 | 135.9 | 161.4 | 187.0 | 197.4 |
| 40° | 163.7 | 148.6 | 119.6 | 96.4 | 87.1 | 84.8 | 91.7 | 110.3 | 137.0 | 166.1 | 182.3 |
| 42.5° | 145.2 | 126.6 | 96.4 | 76.6 | 67.4 | 67.4 | 76.6 | 90.6 | 115.0 | 146.3 | 166.1 |
| 45° | 126.6 | 106.8 | 79.0 | 61.5 | 55.7 | 56.9 | 62.7 | 76.6 | 96.4 | 128.9 | 147.5 |
| 47.5° | 109.2 | 91.7 | 65.0 | 51.1 | 46.5 | 47.6 | 54.6 | 66.2 | 82.5 | 111.5 | 131.2 |
| 50° | 94.1 | 77.8 | 56.9 | 43.0 | 39.5 | 41.8 | 48.8 | 59.2 | 73.2 | 98.7 | 115.0 |
| 52.5° | 84.8 | 69.7 | 52.3 | 37.2 | 34.8 | 37.2 | 44.1 | 53.4 | 66.2 | 87.1 | 103.4 |
| 55° | 80.1 | 68.5 | 52.3 | 33.7 | 30.2 | 32.5 | 39.5 | 48.8 | 59.2 | 79.0 | 92.9 |
| 57.5° | 79.0 | 70.8 | 55.7 | 30.2 | 25.5 | 27.9 | 34.8 | 44.1 | 54.6 | 72.0 | 83.6 |
| 60° | 74.3 | 67.4 | 54.6 | 24.4 | 19.7 | 23.2 | 29.0 | 38.3 | 49.9 | 67.4 | 77.8 |
| 62.5° | 65.0 | 59.2 | 47.6 | 19.7 | 15.1 | 17.4 | 24.4 | 33.7 | 45.3 | 61.5 | 73.2 |
| 65° | 53.4 | 47.6 | 37.2 | 12.8 | 9.3 | 11.6 | 18.6 | 29.0 | 39.5 | 55.7 | 66.2 |
| 67.5° | 39.5 | 33.7 | 25.5 | 8.1 | 4.6 | 8.1 | 15.1 | 24.4 | 36.0 | 49.9 | 60.4 |
| 70° | 24.4 | 19.7 | 13.9 | 4.6 | 3.5 | 7.0 | 13.9 | 23.2 | 32.5 | 46.5 | 56.9 |
| 72.5° | 13.9 | 9.3 | 5.8 | 2.3 | 3.5 | 7.0 | 13.9 | 23.2 | 31.4 | 44.1 | 53.4 |
| 75° | 10.5 | 5.8 | 2.3 | 1.2 | 2.3 | 5.8 | 12.8 | 20.9 | 30.2 | 41.8 | 51.1 |
| 77.5° | 7.0 | 3.5 | 1.2 | 0.0 | 1.2 | 4.6 | 11.6 | 19.7 | 27.9 | 39.5 | 48.8 |
| 80° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 10.5 | 17.4 | 25.5 | 34.8 | 43.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 8.1 | 15.1 | 22.1 | 29.0 | 34.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 11.6 | 17.4 | 22.1 | 24.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 | 11.6 | 13.9 | 16.3 |
| 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-SA3E-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|---------|
| 0° | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 |
| 2.5° | 475.0 | 481.9 | 481.9 | 486.6 | 492.4 | 502.8 | 508.7 | 516.8 | 522.6 | 528.4 | 530.7 |
| 5° | 439.0 | 440.1 | 441.3 | 443.6 | 450.6 | 462.2 | 472.7 | 485.4 | 500.5 | 512.1 | 519.1 |
| 7.5° | 408.8 | 408.8 | 408.8 | 412.3 | 419.2 | 427.4 | 437.8 | 455.2 | 472.7 | 486.6 | 498.2 |
| 10° | 383.2 | 386.7 | 387.9 | 393.7 | 401.8 | 412.3 | 423.9 | 439.0 | 458.7 | 477.3 | 498.2 |
| 12.5° | 367.0 | 370.5 | 376.3 | 382.1 | 390.2 | 401.8 | 414.6 | 434.3 | 475.0 | 513.3 | 557.4 |
| 15° | 351.9 | 356.5 | 363.5 | 371.6 | 380.9 | 393.7 | 407.6 | 448.3 | 543.5 | 615.5 | 685.2 |
| 17.5° | 335.6 | 342.6 | 351.9 | 360.0 | 371.6 | 385.6 | 403.0 | 481.9 | 668.9 | 788.5 | 907.0 |
| 20° | 314.7 | 324.0 | 334.5 | 347.2 | 361.2 | 377.4 | 403.0 | 551.6 | 850.1 | 1021.9 | 1178.7 |
| 22.5° | 295.0 | 304.3 | 317.0 | 333.3 | 349.6 | 365.8 | 408.8 | 657.3 | 1083.5 | 1300.7 | 1499.2 |
| 25° | 278.7 | 290.3 | 303.1 | 317.0 | 335.6 | 354.2 | 422.7 | 805.9 | 1364.5 | 1644.4 | 1784.9 |
| 27.5° | 263.6 | 277.6 | 290.3 | 301.9 | 318.2 | 339.1 | 454.1 | 1004.5 | 1696.7 | 1981.2 | 2091.5 |
| 30° | 248.5 | 264.8 | 277.6 | 289.2 | 305.4 | 327.5 | 501.7 | 1257.7 | 2066.0 | 2342.4 | 2354.0 |
| 32.5° | 235.7 | 250.8 | 265.9 | 277.6 | 292.6 | 318.2 | 567.9 | 1553.8 | 2444.5 | 2711.6 | 2602.5 |
| 35° | 221.8 | 239.2 | 253.2 | 265.9 | 282.2 | 310.1 | 644.5 | 1873.2 | 2826.6 | 3050.7 | 2849.8 |
| 37.5° | 207.9 | 227.6 | 245.0 | 254.3 | 270.6 | 301.9 | 700.3 | 2206.5 | 3216.8 | 3381.7 | 3067.0 |
| 40° | 195.1 | 217.2 | 236.9 | 246.2 | 254.3 | 291.5 | 708.4 | 2547.9 | 3612.8 | 3708.0 | 3271.4 |
| 42.5° | 181.2 | 205.6 | 223.0 | 235.7 | 242.7 | 284.5 | 659.6 | 2835.9 | 3945.0 | 4033.2 | 3538.5 |
| 45° | 166.1 | 195.1 | 209.0 | 218.3 | 232.3 | 289.2 | 596.9 | 3058.9 | 4324.7 | 4476.8 | 3978.6 |
| 47.5° | 151.0 | 183.5 | 195.1 | 202.1 | 220.6 | 317.0 | 573.7 | 3207.5 | 4950.6 | 5266.5 | 4720.7 |
| 50° | 137.0 | 173.0 | 185.8 | 184.6 | 218.3 | 353.0 | 599.2 | 3320.2 | 5891.3 | 6262.9 | 5738.0 |
| 52.5° | 121.9 | 161.4 | 176.5 | 171.9 | 235.7 | 380.9 | 650.3 | 3409.6 | 6614.8 | 7431.2 | 7104.9 |
| 55° | 109.2 | 148.6 | 162.6 | 161.4 | 268.3 | 401.8 | 689.8 | 2938.1 | 6914.4 | 8517.0 | 8644.8 |
| 57.5° | 99.9 | 134.7 | 146.3 | 166.1 | 289.2 | 401.8 | 797.8 | 2085.7 | 6920.2 | 9316.0 | 10688.7 |
| 60° | 91.7 | 121.9 | 130.1 | 182.3 | 281.0 | 380.9 | 789.7 | 1277.4 | 6377.9 | 9261.4 | 11775.6 |
| 62.5° | 84.8 | 110.3 | 120.8 | 187.0 | 248.5 | 377.4 | 713.0 | 792.0 | 5439.6 | 8556.5 | 10987.1 |
| 65° | 79.0 | 101.0 | 116.1 | 171.9 | 225.3 | 404.1 | 480.8 | 569.0 | 4411.8 | 7752.9 | 10082.5 |
| 67.5° | 73.2 | 92.9 | 123.1 | 140.5 | 204.4 | 361.2 | 347.2 | 404.1 | 3463.0 | 6871.4 | 9252.1 |
| 70° | 68.5 | 88.3 | 130.1 | 115.0 | 178.8 | 282.2 | 246.2 | 306.6 | 2651.3 | 5733.4 | 8082.7 |
| 72.5° | 65.0 | 82.5 | 109.2 | 90.6 | 145.2 | 218.3 | 171.9 | 223.0 | 1732.7 | 4475.7 | 6589.2 |
| 75° | 61.5 | 75.5 | 80.1 | 73.2 | 108.0 | 142.8 | 130.1 | 149.8 | 1032.4 | 3271.4 | 4999.4 |
| 77.5° | 60.4 | 70.8 | 65.0 | 59.2 | 73.2 | 84.8 | 98.7 | 101.0 | 504.0 | 1636.3 | 2619.9 |
| 80° | 53.4 | 63.9 | 55.7 | 48.8 | 49.9 | 55.7 | 73.2 | 67.4 | 115.0 | 415.7 | 699.1 |
| 82.5° | 41.8 | 49.9 | 46.5 | 40.6 | 40.6 | 40.6 | 48.8 | 45.3 | 37.2 | 187.0 | 315.9 |
| 85° | 29.0 | 34.8 | 34.8 | 32.5 | 31.4 | 31.4 | 30.2 | 29.0 | 10.5 | 11.6 | 17.4 |
| 87.5° | 19.7 | 24.4 | 25.5 | 24.4 | 20.9 | 18.6 | 16.3 | 13.9 | 4.6 | 0.0 | 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 |



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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 358° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 |
| 2.5° | 538.8 | 542.3 | 542.3 | 537.7 | 534.2 | 524.9 | 515.6 | 506.3 | 504.0 | 502.8 |
| 5° | 538.8 | 552.8 | 559.7 | 558.6 | 550.5 | 535.4 | 515.6 | 494.7 | 488.9 | 486.6 |
| 7.5° | 530.7 | 557.4 | 578.3 | 581.8 | 566.7 | 540.0 | 504.0 | 472.7 | 464.5 | 461.0 |
| 10° | 549.3 | 601.6 | 643.4 | 649.2 | 631.8 | 579.5 | 521.4 | 468.0 | 455.2 | 447.1 |
| 12.5° | 649.2 | 735.1 | 786.2 | 810.6 | 776.9 | 710.7 | 614.3 | 519.1 | 490.1 | 477.3 |
| 15° | 851.2 | 973.2 | 1070.7 | 1070.7 | 1039.4 | 922.1 | 800.1 | 645.7 | 606.2 | 571.4 |
| 17.5° | 1110.2 | 1263.5 | 1349.4 | 1340.1 | 1292.5 | 1210.1 | 1063.8 | 841.9 | 761.8 | 725.8 |
| 20° | 1405.2 | 1496.9 | 1516.7 | 1510.9 | 1490.0 | 1442.3 | 1341.3 | 1103.2 | 995.2 | 939.5 |
| 22.5° | 1660.7 | 1636.3 | 1607.2 | 1584.0 | 1578.2 | 1592.1 | 1578.2 | 1394.7 | 1310.0 | 1211.2 |
| 25° | 1833.7 | 1695.5 | 1608.4 | 1566.6 | 1586.3 | 1666.5 | 1753.6 | 1685.1 | 1617.7 | 1515.5 |
| 27.5° | 1927.8 | 1688.5 | 1563.1 | 1520.1 | 1553.8 | 1667.6 | 1856.9 | 1973.1 | 1903.4 | 1854.6 |
| 30° | 1978.9 | 1682.7 | 1534.1 | 1492.3 | 1543.4 | 1686.2 | 1928.9 | 2242.5 | 2244.8 | 2167.0 |
| 32.5° | 2052.0 | 1719.9 | 1539.9 | 1501.6 | 1570.1 | 1742.0 | 2019.5 | 2516.5 | 2583.9 | 2542.1 |
| 35° | 2134.5 | 1776.8 | 1566.6 | 1531.8 | 1616.5 | 1816.3 | 2120.5 | 2792.9 | 2933.5 | 2919.5 |
| 37.5° | 2212.3 | 1840.7 | 1629.3 | 1595.6 | 1687.4 | 1880.2 | 2218.1 | 3064.7 | 3259.8 | 3308.6 |
| 40° | 2293.6 | 1930.1 | 1822.1 | 1854.6 | 1905.7 | 1981.2 | 2305.2 | 3300.4 | 3618.6 | 3691.8 |
| 42.5° | 2485.2 | 2240.2 | 2405.1 | 2466.6 | 2473.6 | 2318.0 | 2495.6 | 3602.4 | 3971.7 | 4058.8 |
| 45° | 2912.6 | 2791.8 | 3264.4 | 3351.5 | 3306.2 | 2834.7 | 2954.4 | 4037.9 | 4465.2 | 4509.3 |
| 47.5° | 3452.6 | 3508.3 | 4440.8 | 4741.6 | 4469.9 | 3444.4 | 3510.6 | 4954.1 | 5368.7 | 5352.5 |
| 50° | 4082.0 | 4345.6 | 5776.3 | 6485.9 | 5835.6 | 4236.4 | 4151.7 | 6080.6 | 6583.4 | 6533.5 |
| 52.5° | 4826.4 | 5318.8 | 7381.3 | 8389.3 | 7773.8 | 5127.2 | 5092.3 | 7572.9 | 7879.5 | 7720.4 |
| 55° | 5763.6 | 6258.3 | 9227.7 | 10636.4 | 9760.8 | 6214.1 | 6333.8 | 9303.2 | 9362.4 | 8857.3 |
| 57.5° | 7161.8 | 7483.5 | 11404.0 | 13213.3 | 11834.9 | 7691.3 | 8558.8 | 11606.1 | 10897.7 | 9940.8 |
| 60° | 9700.4 | 9059.3 | 13507.1 | 15849.5 | 14041.3 | 9768.9 | 11493.4 | 12970.6 | 11408.7 | 10089.4 |
| 62.5° | 10584.1 | 10397.2 | 14824.1 | 16964.3 | 15525.5 | 11474.9 | 12256.4 | 12197.2 | 10746.7 | 9527.3 |
| 65° | 9245.2 | 10063.9 | 14588.3 | 16375.6 | 15335.0 | 11193.8 | 10998.7 | 11343.6 | 10001.2 | 8673.8 |
| 67.5° | 8540.2 | 9281.2 | 13695.3 | 14750.9 | 14279.4 | 10240.4 | 9803.7 | 9709.7 | 8396.2 | 7339.5 |
| 70° | 7829.5 | 8563.5 | 12400.4 | 12531.6 | 12312.2 | 8686.6 | 8112.9 | 7482.3 | 6275.7 | 5357.1 |
| 72.5° | 6974.8 | 7378.9 | 10603.9 | 9981.4 | 9732.9 | 6822.7 | 6701.9 | 5634.7 | 4704.4 | 3915.9 |
| 75° | 6082.9 | 5965.6 | 8267.3 | 6850.5 | 7036.3 | 5308.3 | 5660.2 | 4137.7 | 3446.8 | 2818.5 |
| 77.5° | 4424.6 | 4337.5 | 5537.1 | 4161.0 | 4608.1 | 3476.9 | 3123.9 | 1651.4 | 1572.4 | 1356.4 |
| 80° | 2468.9 | 2976.4 | 2990.4 | 2331.9 | 2909.1 | 2266.9 | 781.6 | 54.6 | 34.8 | 51.1 |
| 82.5° | 1147.4 | 1279.8 | 1621.2 | 1081.2 | 1659.5 | 1123.0 | 161.4 | 0.0 | 0.0 | 0.0 |
| 85° | 371.6 | 543.5 | 455.2 | 159.1 | 401.8 | 379.7 | 26.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 22.1 | 45.3 | 11.6 | 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 |

(END OF REPORT)