

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: P637711

Luminaire Tested: GWS-SA4D-735-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637711  
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-SA4D-735-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

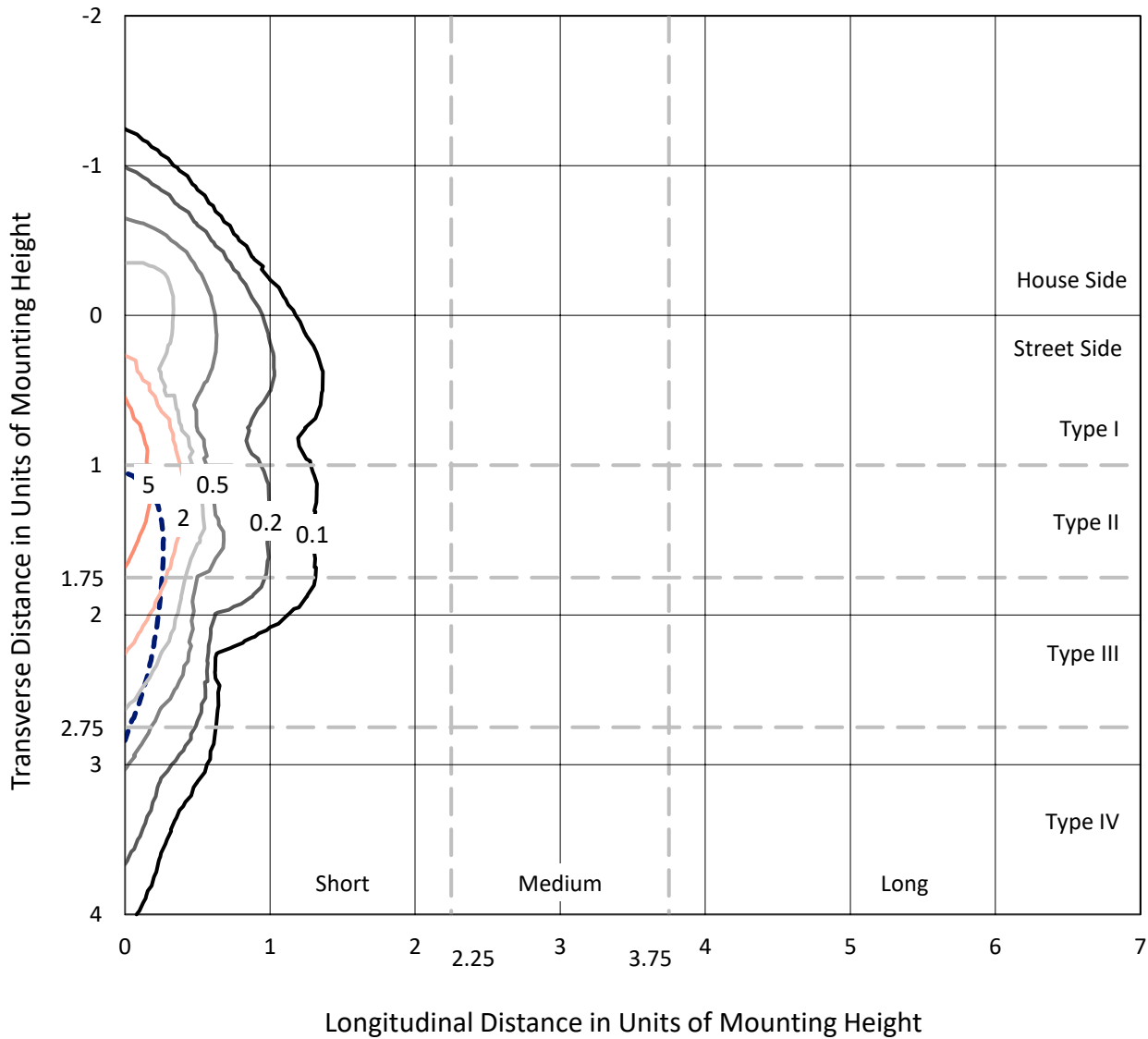
Lumens per Lamp: N/A  
Luminaire Lumens: 14624.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

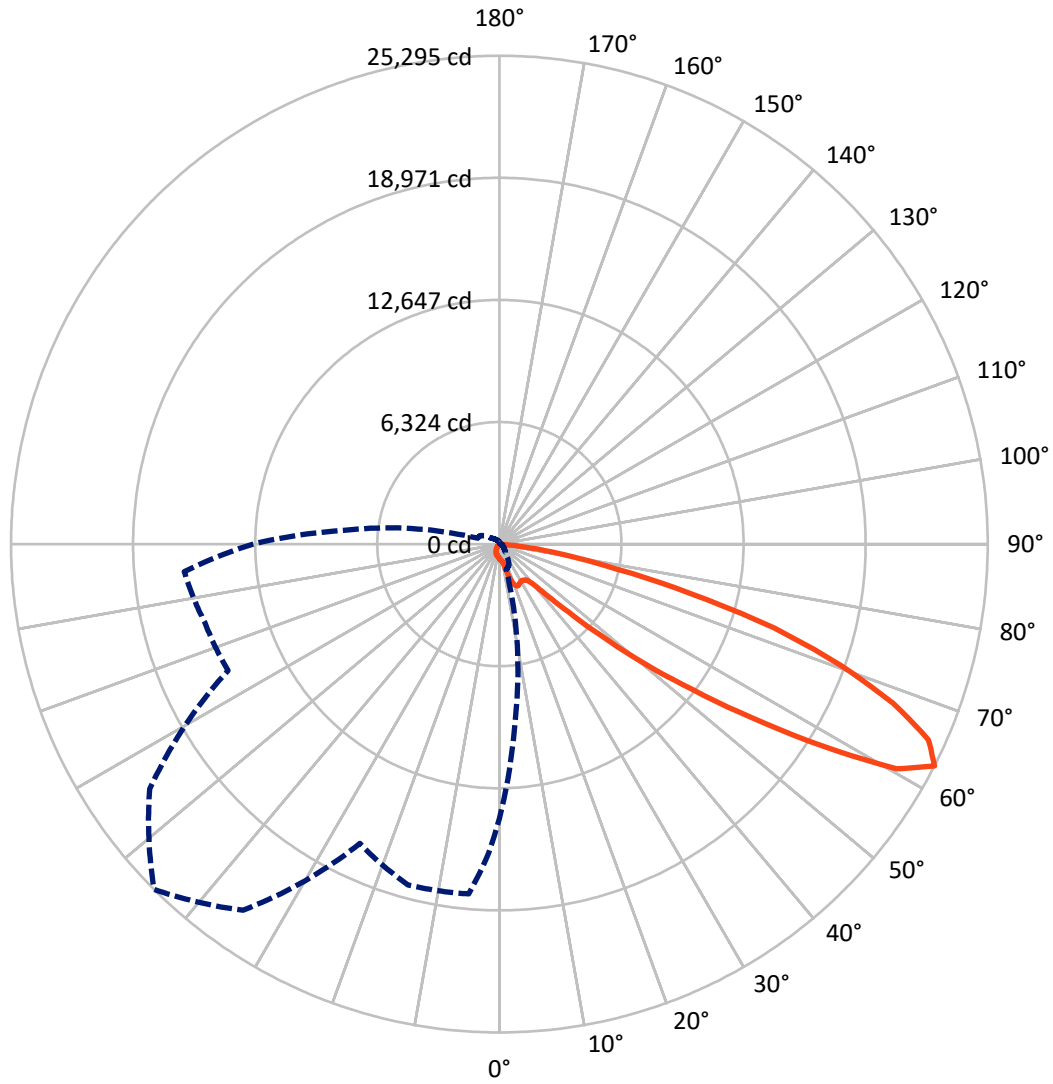
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1699.1   | 0.0    | 1699.1  |
|                    | % Fixture | 11.6     | 0.0    | 11.6    |
| <b>Street Side</b> | Lumens    | 12925.0  | 0.0    | 12925.0 |
|                    | % Fixture | 88.4     | 0.0    | 88.4    |
| <b>Total</b>       | Lumens    | 14624.1  | 0.0    | 14624.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 65.5    | 0.4       |
| 10°-20°   | 224.5   | 1.5       |
| 20°-30°   | 507.1   | 3.5       |
| 30°-40°   | 873.6   | 6.0       |
| 40°-50°   | 1648.0  | 11.3      |
| 50°-60°   | 3679.6  | 25.2      |
| 60°-70°   | 4921.3  | 33.7      |
| 70°-80°   | 2467.9  | 16.9      |
| 80°-90°   | 236.5   | 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°    | 14624.1 | 100.0     |
| 0°-180°   | 14624.1 | 100.0     |

**Coefficient of Utilization**



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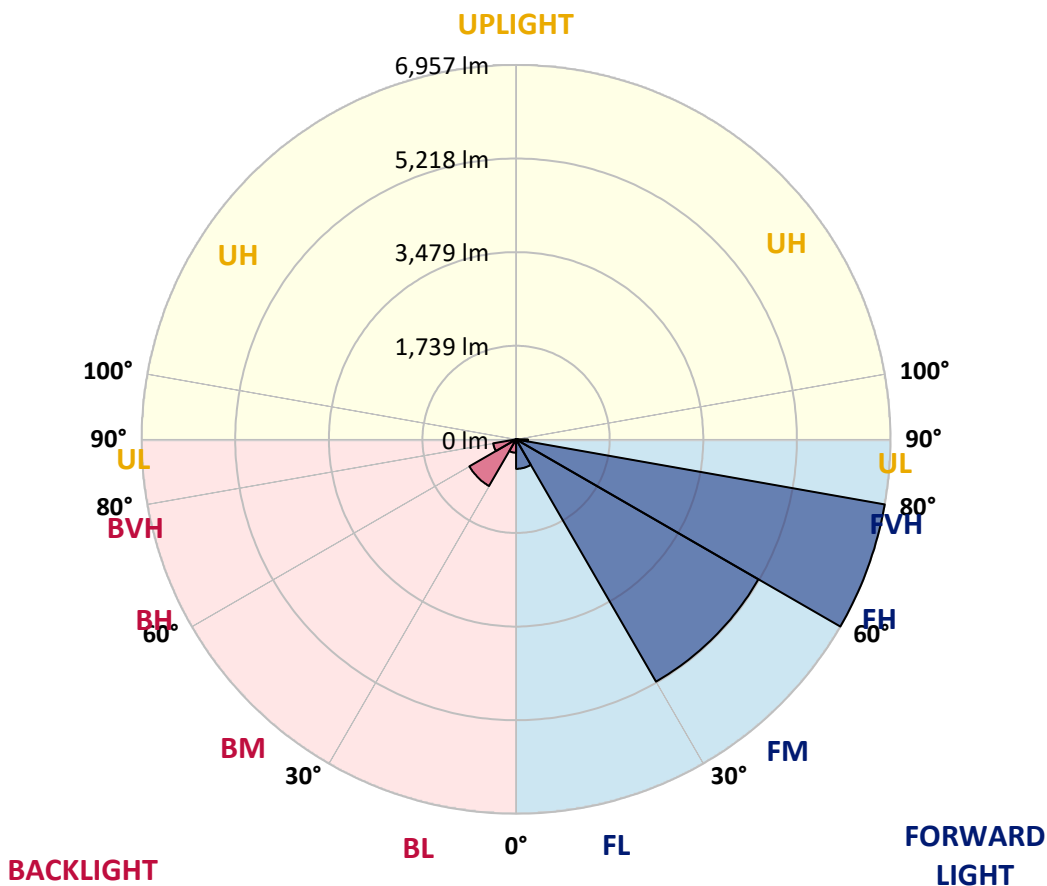
CATALOG NUMBER: GWS-SA4D-735-U-SLL-W-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 547.7  | 3.7       |                         |      |         |
| FM (30°-60°)   | 5199.3 | 35.6      |                         |      |         |
| FH (60°-80°)   | 6957.2 | 47.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 220.8  | 1.5       |                         |      | G2/225  |
| BL (0°-30°)    | 249.4  | 1.7       | B1/500                  |      |         |
| BM (30°-60°)   | 1001.9 | 6.9       | B2/2500                 |      |         |
| BH (60°-80°)   | 432.1  | 3.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 15.7   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 2°      | 5°      | 15°    | 25°    | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|-------|---------|---------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0°    | 758.4   | 758.4   | 758.4   | 758.4  | 758.4  | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 |
| 2.5°  | 749.8   | 748.0   | 744.6   | 734.2  | 725.5  | 720.3 | 709.9 | 709.9 | 708.2 | 704.7 | 697.8 |
| 5°    | 725.5   | 718.6   | 711.7   | 692.6  | 671.8  | 659.7 | 645.9 | 644.1 | 644.1 | 640.7 | 638.9 |
| 7.5°  | 687.4   | 680.5   | 671.8   | 640.7  | 621.6  | 609.5 | 597.4 | 595.7 | 590.5 | 590.5 | 590.5 |
| 10°   | 666.7   | 656.3   | 642.4   | 607.8  | 588.7  | 578.3 | 569.7 | 564.5 | 561.0 | 555.8 | 554.1 |
| 12.5° | 711.7   | 692.6   | 663.2   | 600.9  | 574.9  | 561.0 | 550.6 | 547.2 | 536.8 | 529.9 | 524.7 |
| 15°   | 851.9   | 805.2   | 746.3   | 616.4  | 569.7  | 548.9 | 535.1 | 528.1 | 519.5 | 507.3 | 498.7 |
| 17.5° | 1082.2  | 1014.7  | 916.0   | 666.7  | 564.5  | 538.5 | 521.2 | 509.1 | 497.0 | 483.1 | 472.7 |
| 20°   | 1400.8  | 1300.4  | 1182.7  | 758.4  | 564.5  | 526.4 | 505.6 | 490.0 | 472.7 | 457.1 | 445.0 |
| 22.5° | 1806.0  | 1705.6  | 1504.7  | 914.3  | 571.4  | 510.8 | 486.6 | 465.8 | 445.0 | 431.2 | 417.3 |
| 25°   | 2259.7  | 2117.7  | 1930.7  | 1103.0 | 590.5  | 490.0 | 464.1 | 443.3 | 424.2 | 406.9 | 391.3 |
| 27.5° | 2765.3  | 2611.2  | 2361.9  | 1371.4 | 632.0  | 469.3 | 439.8 | 420.8 | 403.5 | 386.1 | 365.4 |
| 30°   | 3231.1  | 3139.3  | 2884.8  | 1693.5 | 699.6  | 455.4 | 420.8 | 403.5 | 386.1 | 363.6 | 344.6 |
| 32.5° | 3790.4  | 3627.6  | 3418.1  | 2060.6 | 789.6  | 441.5 | 405.2 | 380.9 | 367.1 | 346.3 | 325.5 |
| 35°   | 4353.2  | 4214.6  | 3939.3  | 2512.5 | 890.0  | 427.7 | 386.1 | 363.6 | 351.5 | 327.3 | 304.8 |
| 37.5° | 4933.2  | 4902.1  | 4630.2  | 3012.9 | 988.7  | 412.1 | 363.6 | 349.8 | 337.7 | 310.0 | 284.0 |
| 40°   | 5504.7  | 5447.5  | 5196.4  | 3584.3 | 1049.3 | 394.8 | 344.6 | 335.9 | 322.1 | 290.9 | 261.5 |
| 42.5° | 6051.8  | 6008.5  | 5764.4  | 4131.5 | 1040.7 | 379.2 | 325.5 | 315.1 | 304.8 | 273.6 | 237.2 |
| 45°   | 6723.7  | 6652.7  | 6344.5  | 4536.7 | 952.4  | 396.5 | 306.5 | 289.2 | 287.4 | 258.0 | 213.0 |
| 47.5° | 7980.8  | 7747.0  | 7224.1  | 4848.4 | 864.1  | 441.5 | 285.7 | 264.9 | 277.1 | 242.4 | 188.7 |
| 50°   | 9741.8  | 9466.5  | 8709.8  | 5090.8 | 862.3  | 500.4 | 282.2 | 242.4 | 268.4 | 230.3 | 168.0 |
| 52.5° | 11511.5 | 11026.6 | 10107.2 | 5220.7 | 926.4  | 543.7 | 313.4 | 219.9 | 258.0 | 218.2 | 152.4 |
| 55°   | 13206.7 | 12200.6 | 10692.4 | 4791.2 | 976.6  | 590.5 | 370.6 | 207.8 | 239.0 | 204.3 | 143.7 |
| 57.5° | 14822.2 | 13144.3 | 10947.0 | 3790.4 | 1144.6 | 609.5 | 405.2 | 213.0 | 211.3 | 187.0 | 136.8 |
| 60°   | 15043.9 | 13099.3 | 10432.7 | 2204.3 | 1262.3 | 576.6 | 391.3 | 237.2 | 185.3 | 166.2 | 124.7 |
| 62.5° | 14205.8 | 12228.3 | 9260.4  | 1374.9 | 1172.3 | 564.5 | 348.0 | 270.1 | 168.0 | 147.2 | 109.1 |
| 65°   | 12933.1 | 10862.1 | 7721.1  | 886.6  | 888.3  | 626.8 | 304.8 | 264.9 | 157.6 | 129.9 | 93.5  |
| 67.5° | 10943.5 | 9090.7  | 6083.0  | 593.9  | 502.2  | 535.1 | 266.7 | 181.8 | 154.1 | 110.8 | 72.7  |
| 70°   | 7987.7  | 6470.9  | 3960.1  | 396.5  | 299.6  | 427.7 | 223.4 | 129.9 | 145.5 | 91.8  | 51.9  |
| 72.5° | 5838.8  | 4348.0  | 2211.2  | 259.7  | 169.7  | 249.3 | 164.5 | 93.5  | 112.6 | 67.5  | 36.4  |
| 75°   | 4202.5  | 2992.1  | 1262.3  | 166.2  | 112.6  | 136.8 | 107.4 | 64.1  | 72.7  | 53.7  | 32.9  |
| 77.5° | 2022.5  | 1458.0  | 573.1   | 91.8   | 76.2   | 69.3  | 57.1  | 39.8  | 45.0  | 48.5  | 29.4  |
| 80°   | 76.2    | 57.1    | 43.3    | 45.0   | 48.5   | 31.2  | 26.0  | 20.8  | 26.0  | 32.9  | 15.6  |
| 82.5° | 0.0     | 0.0     | 0.0     | 5.2    | 6.9    | 8.7   | 10.4  | 8.7   | 10.4  | 12.1  | 1.7   |
| 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°    | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 |
| 2.5°  | 703.0 | 699.6 | 703.0 | 706.5 | 709.9 | 713.4 | 708.2 | 711.7 | 715.1 | 706.5 | 709.9 |
| 5°    | 647.6 | 645.9 | 656.3 | 661.5 | 668.4 | 671.8 | 668.4 | 668.4 | 666.7 | 656.3 | 656.3 |
| 7.5°  | 599.1 | 600.9 | 609.5 | 621.6 | 630.3 | 635.5 | 632.0 | 630.3 | 625.1 | 609.5 | 609.5 |
| 10°   | 562.8 | 562.8 | 576.6 | 587.0 | 599.1 | 604.3 | 600.9 | 595.7 | 590.5 | 574.9 | 573.1 |
| 12.5° | 533.3 | 533.3 | 543.7 | 561.0 | 574.9 | 581.8 | 580.1 | 573.1 | 564.5 | 548.9 | 547.2 |
| 15°   | 505.6 | 503.9 | 519.5 | 535.1 | 554.1 | 562.8 | 559.3 | 554.1 | 538.5 | 524.7 | 521.2 |
| 17.5° | 477.9 | 476.2 | 490.0 | 510.8 | 531.6 | 543.7 | 542.0 | 529.9 | 516.0 | 498.7 | 495.2 |
| 20°   | 450.2 | 446.7 | 464.1 | 484.8 | 505.6 | 517.7 | 514.3 | 503.9 | 486.6 | 469.3 | 465.8 |
| 22.5° | 422.5 | 420.8 | 432.9 | 450.2 | 469.3 | 479.6 | 477.9 | 469.3 | 451.9 | 436.4 | 436.4 |
| 25°   | 391.3 | 391.3 | 400.0 | 412.1 | 426.0 | 431.2 | 432.9 | 429.4 | 419.0 | 410.4 | 410.4 |
| 27.5° | 365.4 | 360.2 | 363.6 | 367.1 | 374.0 | 382.7 | 382.7 | 386.1 | 387.9 | 384.4 | 386.1 |
| 30°   | 344.6 | 335.9 | 330.7 | 323.8 | 320.3 | 323.8 | 327.3 | 339.4 | 351.5 | 358.4 | 361.9 |
| 32.5° | 320.3 | 310.0 | 296.1 | 277.1 | 264.9 | 261.5 | 271.9 | 294.4 | 316.9 | 332.5 | 341.1 |
| 35°   | 296.1 | 282.2 | 256.3 | 228.6 | 213.0 | 207.8 | 219.9 | 245.9 | 278.8 | 306.5 | 318.6 |
| 37.5° | 271.9 | 252.8 | 216.4 | 183.5 | 166.2 | 162.8 | 174.9 | 202.6 | 240.7 | 278.8 | 294.4 |
| 40°   | 244.2 | 221.6 | 178.4 | 143.7 | 129.9 | 126.4 | 136.8 | 164.5 | 204.3 | 247.6 | 271.9 |
| 42.5° | 216.4 | 188.7 | 143.7 | 114.3 | 100.4 | 100.4 | 114.3 | 135.1 | 171.4 | 218.2 | 247.6 |
| 45°   | 188.7 | 159.3 | 117.7 | 91.8  | 83.1  | 84.8  | 93.5  | 114.3 | 143.7 | 192.2 | 219.9 |
| 47.5° | 162.8 | 136.8 | 97.0  | 76.2  | 69.3  | 71.0  | 81.4  | 98.7  | 122.9 | 166.2 | 195.7 |
| 50°   | 140.3 | 116.0 | 84.8  | 64.1  | 58.9  | 62.3  | 72.7  | 88.3  | 109.1 | 147.2 | 171.4 |
| 52.5° | 126.4 | 103.9 | 77.9  | 55.4  | 51.9  | 55.4  | 65.8  | 79.7  | 98.7  | 129.9 | 154.1 |
| 55°   | 119.5 | 102.2 | 77.9  | 50.2  | 45.0  | 48.5  | 58.9  | 72.7  | 88.3  | 117.7 | 138.5 |
| 57.5° | 117.7 | 105.6 | 83.1  | 45.0  | 38.1  | 41.6  | 51.9  | 65.8  | 81.4  | 107.4 | 124.7 |
| 60°   | 110.8 | 100.4 | 81.4  | 36.4  | 29.4  | 34.6  | 43.3  | 57.1  | 74.5  | 100.4 | 116.0 |
| 62.5° | 97.0  | 88.3  | 71.0  | 29.4  | 22.5  | 26.0  | 36.4  | 50.2  | 67.5  | 91.8  | 109.1 |
| 65°   | 79.7  | 71.0  | 55.4  | 19.0  | 13.9  | 17.3  | 27.7  | 43.3  | 58.9  | 83.1  | 98.7  |
| 67.5° | 58.9  | 50.2  | 38.1  | 12.1  | 6.9   | 12.1  | 22.5  | 36.4  | 53.7  | 74.5  | 90.0  |
| 70°   | 36.4  | 29.4  | 20.8  | 6.9   | 5.2   | 10.4  | 20.8  | 34.6  | 48.5  | 69.3  | 84.8  |
| 72.5° | 20.8  | 13.9  | 8.7   | 3.5   | 5.2   | 10.4  | 20.8  | 34.6  | 46.8  | 65.8  | 79.7  |
| 75°   | 15.6  | 8.7   | 3.5   | 1.7   | 3.5   | 8.7   | 19.0  | 31.2  | 45.0  | 62.3  | 76.2  |
| 77.5° | 10.4  | 5.2   | 1.7   | 0.0   | 1.7   | 6.9   | 17.3  | 29.4  | 41.6  | 58.9  | 72.7  |
| 80°   | 1.7   | 0.0   | 0.0   | 0.0   | 0.0   | 5.2   | 15.6  | 26.0  | 38.1  | 51.9  | 64.1  |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.7   | 12.1  | 22.5  | 32.9  | 43.3  | 51.9  |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 6.9   | 17.3  | 26.0  | 32.9  | 36.4  |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 8.7   | 17.3  | 20.8  | 24.2  |
| 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-SA4D-735-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| 0°    | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4 | 758.4  | 758.4  | 758.4   | 758.4   | 758.4   |
| 2.5°  | 708.2 | 718.6 | 718.6 | 725.5 | 734.2 | 749.8 | 758.4  | 770.5  | 779.2   | 787.9   | 791.3   |
| 5°    | 654.5 | 656.3 | 658.0 | 661.5 | 671.8 | 689.2 | 704.7  | 723.8  | 746.3   | 763.6   | 774.0   |
| 7.5°  | 609.5 | 609.5 | 609.5 | 614.7 | 625.1 | 637.2 | 652.8  | 678.8  | 704.7   | 725.5   | 742.8   |
| 10°   | 571.4 | 576.6 | 578.3 | 587.0 | 599.1 | 614.7 | 632.0  | 654.5  | 684.0   | 711.7   | 742.8   |
| 12.5° | 547.2 | 552.4 | 561.0 | 569.7 | 581.8 | 599.1 | 618.2  | 647.6  | 708.2   | 765.4   | 831.2   |
| 15°   | 524.7 | 531.6 | 542.0 | 554.1 | 568.0 | 587.0 | 607.8  | 668.4  | 810.4   | 917.7   | 1021.6  |
| 17.5° | 500.4 | 510.8 | 524.7 | 536.8 | 554.1 | 574.9 | 600.9  | 718.6  | 997.4   | 1175.7  | 1352.4  |
| 20°   | 469.3 | 483.1 | 498.7 | 517.7 | 538.5 | 562.8 | 600.9  | 822.5  | 1267.5  | 1523.8  | 1757.5  |
| 22.5° | 439.8 | 453.7 | 472.7 | 497.0 | 521.2 | 545.4 | 609.5  | 980.1  | 1615.6  | 1939.4  | 2235.5  |
| 25°   | 415.6 | 432.9 | 451.9 | 472.7 | 500.4 | 528.1 | 630.3  | 1201.7 | 2034.6  | 2451.9  | 2661.4  |
| 27.5° | 393.1 | 413.8 | 432.9 | 450.2 | 474.4 | 505.6 | 677.0  | 1497.8 | 2529.8  | 2954.1  | 3118.6  |
| 30°   | 370.6 | 394.8 | 413.8 | 431.2 | 455.4 | 488.3 | 748.0  | 1875.3 | 3080.5  | 3492.6  | 3509.9  |
| 32.5° | 351.5 | 374.0 | 396.5 | 413.8 | 436.4 | 474.4 | 846.7  | 2316.8 | 3645.0  | 4043.2  | 3880.4  |
| 35°   | 330.7 | 356.7 | 377.5 | 396.5 | 420.8 | 462.3 | 961.0  | 2793.0 | 4214.6  | 4548.8  | 4249.3  |
| 37.5° | 310.0 | 339.4 | 365.4 | 379.2 | 403.5 | 450.2 | 1044.1 | 3290.0 | 4796.4  | 5042.3  | 4573.1  |
| 40°   | 290.9 | 323.8 | 353.2 | 367.1 | 379.2 | 434.6 | 1056.3 | 3799.1 | 5386.9  | 5528.9  | 4877.8  |
| 42.5° | 270.1 | 306.5 | 332.5 | 351.5 | 361.9 | 424.2 | 983.5  | 4228.5 | 5882.1  | 6013.7  | 5276.1  |
| 45°   | 247.6 | 290.9 | 311.7 | 325.5 | 346.3 | 431.2 | 890.0  | 4561.0 | 6448.4  | 6675.2  | 5932.4  |
| 47.5° | 225.1 | 273.6 | 290.9 | 301.3 | 329.0 | 472.7 | 855.4  | 4782.6 | 7381.7  | 7852.7  | 7038.8  |
| 50°   | 204.3 | 258.0 | 277.1 | 275.3 | 325.5 | 526.4 | 893.5  | 4950.6 | 8784.2  | 9338.3  | 8555.7  |
| 52.5° | 181.8 | 240.7 | 263.2 | 256.3 | 351.5 | 568.0 | 969.7  | 5083.9 | 9863.0  | 11080.3 | 10593.7 |
| 55°   | 162.8 | 221.6 | 242.4 | 240.7 | 400.0 | 599.1 | 1028.6 | 4380.9 | 10309.8 | 12699.3 | 12889.8 |
| 57.5° | 148.9 | 200.9 | 218.2 | 247.6 | 431.2 | 599.1 | 1189.6 | 3109.9 | 10318.4 | 13890.6 | 15937.4 |
| 60°   | 136.8 | 181.8 | 193.9 | 271.9 | 419.0 | 568.0 | 1177.5 | 1904.7 | 9509.8  | 13809.3 | 17558.1 |
| 62.5° | 126.4 | 164.5 | 180.1 | 278.8 | 370.6 | 562.8 | 1063.2 | 1180.9 | 8110.7  | 12758.2 | 16382.4 |
| 65°   | 117.7 | 150.6 | 173.2 | 256.3 | 335.9 | 602.6 | 716.9  | 848.5  | 6578.2  | 11559.9 | 15033.5 |
| 67.5° | 109.1 | 138.5 | 183.5 | 209.5 | 304.8 | 538.5 | 517.7  | 602.6  | 5163.5  | 10245.7 | 13795.4 |
| 70°   | 102.2 | 131.6 | 193.9 | 171.4 | 266.7 | 420.8 | 367.1  | 457.1  | 3953.2  | 8548.8  | 12051.7 |
| 72.5° | 97.0  | 122.9 | 162.8 | 135.1 | 216.4 | 325.5 | 256.3  | 332.5  | 2583.5  | 6673.5  | 9824.9  |
| 75°   | 91.8  | 112.6 | 119.5 | 109.1 | 161.0 | 213.0 | 193.9  | 223.4  | 1539.4  | 4877.8  | 7454.4  |
| 77.5° | 90.0  | 105.6 | 97.0  | 88.3  | 109.1 | 126.4 | 147.2  | 150.6  | 751.5   | 2439.8  | 3906.4  |
| 80°   | 79.7  | 95.2  | 83.1  | 72.7  | 74.5  | 83.1  | 109.1  | 100.4  | 171.4   | 619.9   | 1042.4  |
| 82.5° | 62.3  | 74.5  | 69.3  | 60.6  | 60.6  | 60.6  | 72.7   | 67.5   | 55.4    | 278.8   | 471.0   |
| 85°   | 43.3  | 51.9  | 51.9  | 48.5  | 46.8  | 46.8  | 45.0   | 43.3   | 15.6    | 17.3    | 26.0    |
| 87.5° | 29.4  | 36.4  | 38.1  | 36.4  | 31.2  | 27.7  | 24.2   | 20.8   | 6.9     | 0.0     | 3.5     |
| 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: P637711

CATALOG NUMBER: GWS-SA4D-735-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 358°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 758.4   | 758.4   | 758.4   | 758.4   | 758.4   | 758.4   | 758.4   | 758.4   | 758.4   | 758.4   |
| 2.5°  | 803.4   | 808.6   | 808.6   | 801.7   | 796.5   | 782.7   | 768.8   | 755.0   | 751.5   | 749.8   |
| 5°    | 803.4   | 824.2   | 834.6   | 832.9   | 820.8   | 798.3   | 768.8   | 737.6   | 729.0   | 725.5   |
| 7.5°  | 791.3   | 831.2   | 862.3   | 867.5   | 845.0   | 805.2   | 751.5   | 704.7   | 692.6   | 687.4   |
| 10°   | 819.0   | 897.0   | 959.3   | 967.9   | 942.0   | 864.1   | 777.5   | 697.8   | 678.8   | 666.7   |
| 12.5° | 967.9   | 1096.1  | 1172.3  | 1208.6  | 1158.4  | 1059.7  | 916.0   | 774.0   | 730.7   | 711.7   |
| 15°   | 1269.2  | 1451.1  | 1596.5  | 1596.5  | 1549.8  | 1374.9  | 1193.1  | 962.8   | 903.9   | 851.9   |
| 17.5° | 1655.4  | 1883.9  | 2012.1  | 1998.2  | 1927.2  | 1804.3  | 1586.1  | 1255.4  | 1135.9  | 1082.2  |
| 20°   | 2095.2  | 2232.0  | 2261.4  | 2252.8  | 2221.6  | 2150.6  | 2000.0  | 1645.0  | 1484.0  | 1400.8  |
| 22.5° | 2476.1  | 2439.8  | 2396.5  | 2361.9  | 2353.2  | 2374.0  | 2353.2  | 2079.6  | 1953.2  | 1806.0  |
| 25°   | 2734.1  | 2528.1  | 2398.2  | 2335.9  | 2365.3  | 2484.8  | 2614.7  | 2512.5  | 2412.1  | 2259.7  |
| 27.5° | 2874.4  | 2517.7  | 2330.7  | 2266.6  | 2316.8  | 2486.5  | 2768.8  | 2941.9  | 2838.0  | 2765.3  |
| 30°   | 2950.6  | 2509.0  | 2287.4  | 2225.1  | 2301.3  | 2514.2  | 2876.1  | 3343.7  | 3347.1  | 3231.1  |
| 32.5° | 3059.7  | 2564.5  | 2296.1  | 2238.9  | 2341.1  | 2597.4  | 3011.2  | 3752.3  | 3852.7  | 3790.4  |
| 35°   | 3182.6  | 2649.3  | 2335.9  | 2283.9  | 2410.3  | 2708.2  | 3161.8  | 4164.4  | 4373.9  | 4353.2  |
| 37.5° | 3298.6  | 2744.5  | 2429.4  | 2379.2  | 2516.0  | 2803.4  | 3307.3  | 4569.6  | 4860.5  | 4933.2  |
| 40°   | 3419.8  | 2877.9  | 2716.8  | 2765.3  | 2841.5  | 2954.1  | 3437.2  | 4921.1  | 5395.6  | 5504.7  |
| 42.5° | 3705.6  | 3340.2  | 3586.1  | 3677.9  | 3688.2  | 3456.2  | 3721.1  | 5371.3  | 5922.0  | 6051.8  |
| 45°   | 4342.8  | 4162.7  | 4867.4  | 4997.3  | 4929.8  | 4226.8  | 4405.1  | 6020.7  | 6657.9  | 6723.7  |
| 47.5° | 5148.0  | 5231.1  | 6621.5  | 7070.0  | 6664.8  | 5135.8  | 5234.5  | 7386.9  | 8005.0  | 7980.8  |
| 50°   | 6086.5  | 6479.5  | 8612.8  | 9670.8  | 8701.1  | 6316.8  | 6190.4  | 9066.5  | 9816.3  | 9741.8  |
| 52.5° | 7196.4  | 7930.6  | 11005.8 | 12508.8 | 11591.1 | 7644.9  | 7592.9  | 11291.6 | 11748.7 | 11511.5 |
| 55°   | 8593.8  | 9331.4  | 13759.0 | 15859.4 | 14553.8 | 9265.6  | 9444.0  | 13871.6 | 13959.9 | 13206.7 |
| 57.5° | 10678.6 | 11158.2 | 17004.0 | 19701.8 | 17646.4 | 11468.2 | 12761.7 | 17305.3 | 16249.0 | 14822.2 |
| 60°   | 14463.8 | 13508.0 | 20139.9 | 23632.4 | 20936.4 | 14566.0 | 17137.3 | 19339.9 | 17010.9 | 15043.9 |
| 62.5° | 15781.5 | 15502.7 | 22103.5 | 25294.7 | 23149.3 | 17109.6 | 18275.0 | 18186.7 | 16023.9 | 14205.8 |
| 65°   | 13785.0 | 15005.8 | 21752.0 | 24416.8 | 22865.4 | 16690.6 | 16399.7 | 16914.0 | 14912.3 | 12933.1 |
| 67.5° | 12734.0 | 13838.7 | 20420.4 | 21994.4 | 21291.4 | 15269.0 | 14617.9 | 14477.6 | 12519.2 | 10943.5 |
| 70°   | 11674.2 | 12768.6 | 18489.7 | 18685.4 | 18358.1 | 12952.1 | 12096.7 | 11156.5 | 9357.4  | 7987.7  |
| 72.5° | 10399.8 | 11002.4 | 15810.9 | 14882.8 | 14512.3 | 10173.0 | 9992.9  | 8401.6  | 7014.6  | 5838.8  |
| 75°   | 9070.0  | 8895.1  | 12327.0 | 10214.5 | 10491.6 | 7915.0  | 8439.7  | 6169.6  | 5139.3  | 4202.5  |
| 77.5° | 6597.3  | 6467.4  | 8256.1  | 6204.2  | 6870.9  | 5184.3  | 4657.9  | 2462.3  | 2344.5  | 2022.5  |
| 80°   | 3681.3  | 4438.0  | 4458.8  | 3477.0  | 4337.6  | 3380.0  | 1165.3  | 81.4    | 51.9    | 76.2    |
| 82.5° | 1710.8  | 1908.2  | 2417.3  | 1612.1  | 2474.4  | 1674.4  | 240.7   | 0.0     | 0.0     | 0.0     |
| 85°   | 554.1   | 810.4   | 678.8   | 237.2   | 599.1   | 566.2   | 39.8    | 0.0     | 0.0     | 0.0     |
| 87.5° | 32.9    | 67.5    | 17.3    | 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)