

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: P628965

Luminaire Tested: GWS-SA1A-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

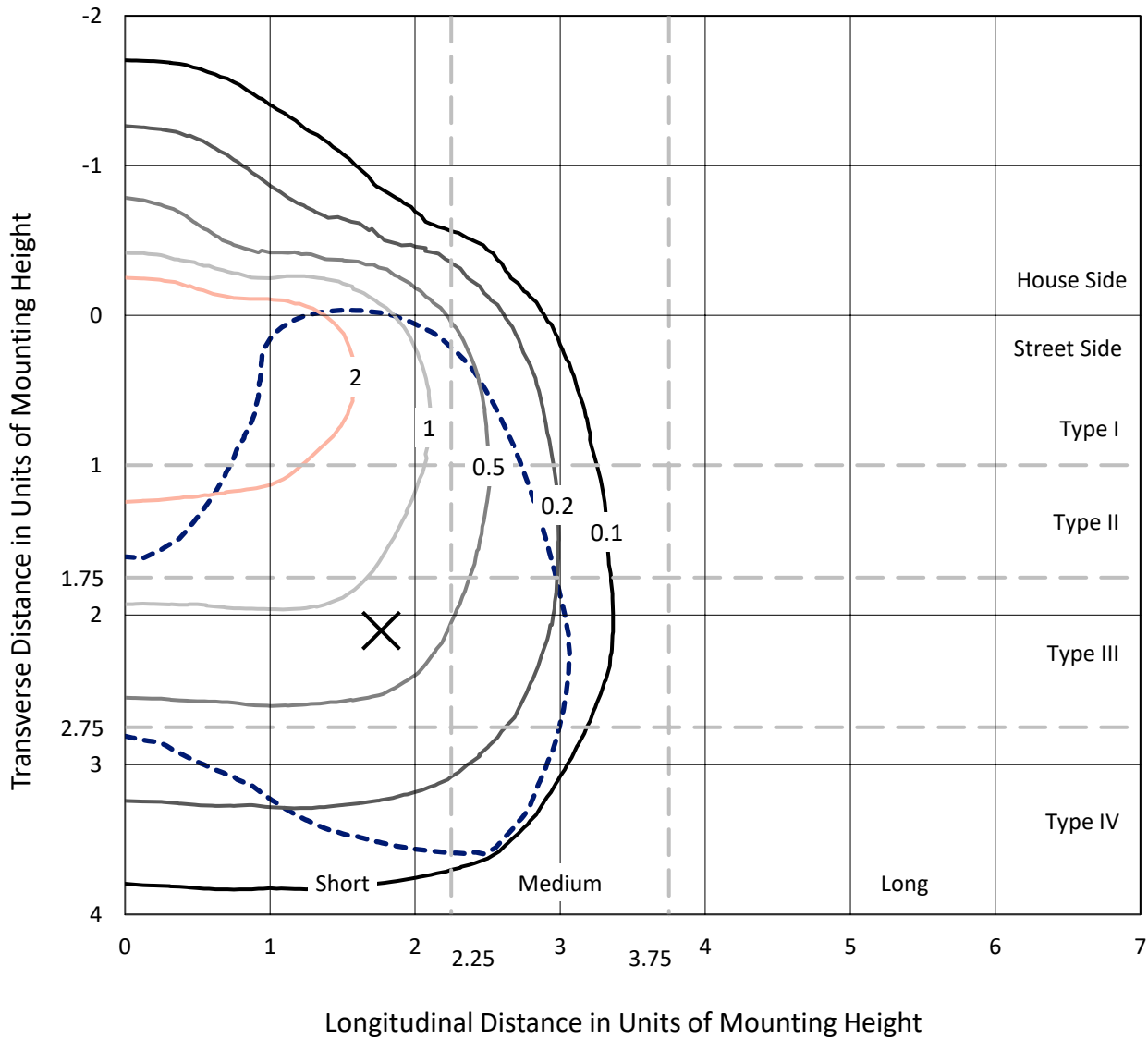
Lumens per Lamp: N/A  
Luminaire Lumens: 2755.4 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

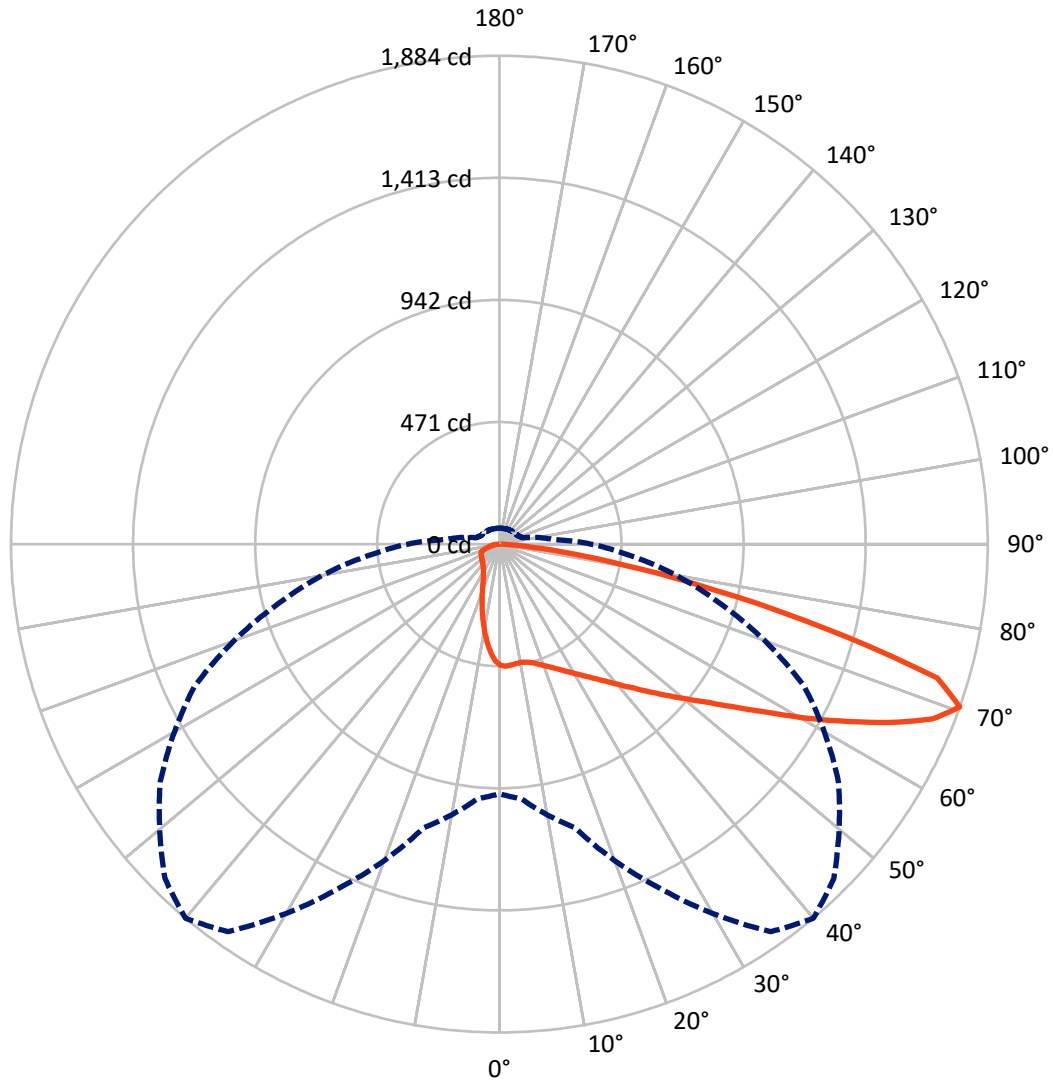
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 424.4    | 0.0    | 424.4  |
|                    | % Fixture | 15.4     | 0.0    | 15.4   |
| <b>Street Side</b> | Lumens    | 2331.0   | 0.0    | 2331.0 |
|                    | % Fixture | 84.6     | 0.0    | 84.6   |
| <b>Total</b>       | Lumens    | 2755.4   | 0.0    | 2755.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.3   | 1.5       |
| 10°-20°   | 107.7  | 3.9       |
| 20°-30°   | 169.2  | 6.1       |
| 30°-40°   | 254.4  | 9.2       |
| 40°-50°   | 392.6  | 14.2      |
| 50°-60°   | 583.1  | 21.2      |
| 60°-70°   | 734.9  | 26.7      |
| 70°-80°   | 425.0  | 15.4      |
| 80°-90°   | 47.2   | 1.7       |
| 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°    | 2755.4 | 100.0     |
| 0°-180°   | 2755.4 | 100.0     |

**Coefficient of Utilization**



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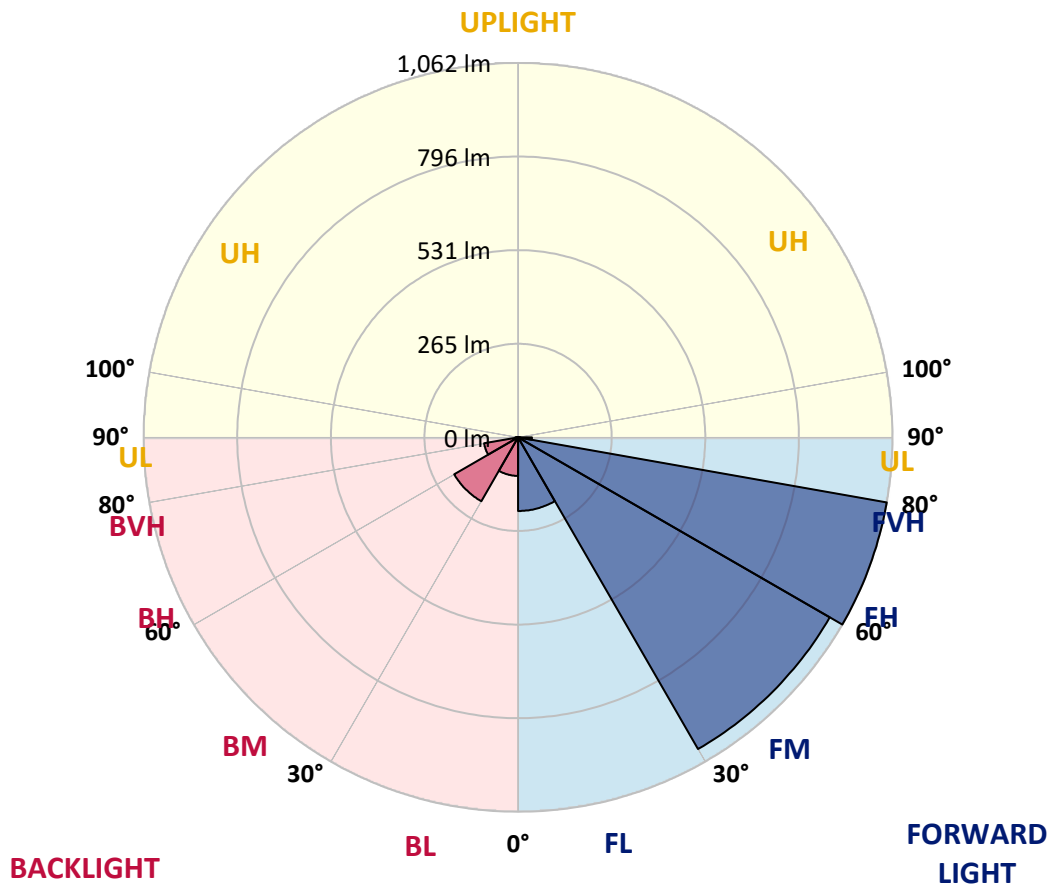
CATALOG NUMBER: GWS-SA1A-760-U-SL4-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 208.9  | 7.6       |                         |      |         |
| FM (30°-60°)   | 1020.8 | 37.0      |                         |      |         |
| FH (60°-80°)   | 1062.0 | 38.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 39.3   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 109.4  | 4.0       | B0/110                  |      |         |
| BM (30°-60°)   | 209.2  | 7.6       | B0/220                  |      |         |
| BH (60°-80°)   | 98.0   | 3.6       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 7.9    | 0.3       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 467.9  | 467.9  | 467.9  | 467.9  | 467.9  | 467.9  | 467.9  | 467.9  | 467.9  | 467.9  | 467.9  |
| 2.5°  | 470.8  | 471.6  | 472.2  | 473.0  | 472.6  | 471.4  | 472.4  | 472.4  | 470.2  | 467.7  | 465.4  |
| 5°    | 471.4  | 472.4  | 472.2  | 472.0  | 470.4  | 468.3  | 468.3  | 467.1  | 463.2  | 459.3  | 455.6  |
| 7.5°  | 470.2  | 470.0  | 469.7  | 469.1  | 467.3  | 465.0  | 464.6  | 462.1  | 457.0  | 451.7  | 446.3  |
| 10°   | 464.6  | 464.4  | 465.0  | 466.5  | 466.0  | 464.0  | 464.0  | 461.7  | 455.8  | 449.2  | 442.2  |
| 12.5° | 460.1  | 460.1  | 462.6  | 466.5  | 467.9  | 467.1  | 467.3  | 465.6  | 458.8  | 451.0  | 442.8  |
| 15°   | 460.7  | 460.9  | 466.3  | 472.6  | 475.3  | 474.7  | 474.9  | 473.0  | 465.4  | 457.6  | 446.5  |
| 17.5° | 464.8  | 465.8  | 475.1  | 483.9  | 487.4  | 486.6  | 485.2  | 482.1  | 473.5  | 464.6  | 451.0  |
| 20°   | 473.5  | 475.1  | 487.0  | 498.1  | 502.2  | 500.4  | 497.9  | 491.8  | 482.3  | 472.6  | 456.0  |
| 22.5° | 490.5  | 491.6  | 504.7  | 515.6  | 518.9  | 516.6  | 511.7  | 502.9  | 492.0  | 481.9  | 461.9  |
| 25°   | 514.6  | 515.8  | 528.4  | 538.4  | 537.6  | 534.9  | 528.2  | 517.3  | 504.3  | 493.6  | 470.6  |
| 27.5° | 543.2  | 545.2  | 557.6  | 565.6  | 560.2  | 556.3  | 548.7  | 535.6  | 521.0  | 511.3  | 483.7  |
| 30°   | 574.4  | 575.3  | 585.7  | 593.8  | 585.5  | 580.2  | 570.9  | 556.7  | 543.6  | 536.4  | 503.5  |
| 32.5° | 604.7  | 605.5  | 614.5  | 619.1  | 610.4  | 606.5  | 598.5  | 583.5  | 574.2  | 570.3  | 532.9  |
| 35°   | 636.5  | 636.3  | 643.7  | 647.7  | 638.8  | 637.2  | 628.9  | 617.4  | 615.8  | 620.9  | 575.9  |
| 37.5° | 668.4  | 666.6  | 670.5  | 675.6  | 670.7  | 672.3  | 667.0  | 663.1  | 669.5  | 682.8  | 633.1  |
| 40°   | 693.9  | 693.9  | 698.0  | 704.4  | 706.1  | 713.3  | 710.2  | 715.3  | 735.9  | 767.8  | 703.8  |
| 42.5° | 716.6  | 716.8  | 725.4  | 735.3  | 747.2  | 758.3  | 760.8  | 774.1  | 816.7  | 866.7  | 792.7  |
| 45°   | 740.2  | 740.4  | 752.1  | 766.5  | 791.8  | 813.0  | 817.9  | 848.0  | 908.9  | 969.7  | 889.1  |
| 47.5° | 767.6  | 765.3  | 781.5  | 805.6  | 841.6  | 872.0  | 884.8  | 927.4  | 1004.3 | 1079.1 | 980.0  |
| 50°   | 798.4  | 793.7  | 811.8  | 853.3  | 897.7  | 939.5  | 960.9  | 1009.6 | 1106.7 | 1180.1 | 1065.6 |
| 52.5° | 833.2  | 830.5  | 849.4  | 900.0  | 967.9  | 1016.0 | 1045.0 | 1109.0 | 1206.3 | 1280.7 | 1133.4 |
| 55°   | 876.4  | 870.0  | 897.3  | 961.7  | 1050.1 | 1111.4 | 1145.8 | 1207.3 | 1315.1 | 1372.0 | 1185.3 |
| 57.5° | 923.7  | 916.7  | 953.3  | 1038.8 | 1157.1 | 1224.4 | 1267.3 | 1317.9 | 1417.5 | 1442.0 | 1215.7 |
| 60°   | 974.7  | 972.4  | 1015.8 | 1129.3 | 1284.6 | 1362.8 | 1393.8 | 1439.7 | 1506.5 | 1482.5 | 1208.1 |
| 62.5° | 1021.4 | 1020.5 | 1083.7 | 1227.4 | 1419.7 | 1505.7 | 1530.4 | 1542.5 | 1570.7 | 1479.8 | 1147.6 |
| 65°   | 1070.5 | 1077.5 | 1162.9 | 1341.2 | 1574.6 | 1658.9 | 1669.2 | 1638.4 | 1592.3 | 1409.7 | 1023.8 |
| 67.5° | 1076.7 | 1090.3 | 1212.6 | 1447.7 | 1721.5 | 1801.0 | 1792.8 | 1674.8 | 1528.5 | 1214.5 | 802.5  |
| 70°   | 962.9  | 986.6  | 1133.2 | 1464.0 | 1824.9 | 1883.5 | 1824.1 | 1596.4 | 1297.2 | 879.9  | 504.7  |
| 72.5° | 804.6  | 824.9  | 954.5  | 1248.4 | 1691.4 | 1766.1 | 1685.7 | 1351.2 | 916.7  | 504.7  | 257.1  |
| 75°   | 626.3  | 649.9  | 769.4  | 992.4  | 1266.3 | 1296.1 | 1255.8 | 942.4  | 503.9  | 208.1  | 116.8  |
| 77.5° | 382.1  | 399.2  | 492.2  | 672.3  | 886.0  | 841.4  | 713.1  | 528.4  | 221.1  | 99.7   | 72.2   |
| 80°   | 169.1  | 179.5  | 242.5  | 361.2  | 511.9  | 483.9  | 381.5  | 225.6  | 120.9  | 63.3   | 50.4   |
| 82.5° | 90.7   | 97.5   | 119.5  | 142.9  | 224.8  | 235.1  | 190.7  | 130.0  | 65.0   | 36.2   | 28.8   |
| 85°   | 39.9   | 43.8   | 54.3   | 51.8   | 73.8   | 72.6   | 73.2   | 89.3   | 31.1   | 16.7   | 18.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.2    | 0.2    | 2.3    | 11.9   | 3.1    | 4.9    | 4.3    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 467.9  | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 |
| 2.5°  | 463.0  | 459.3 | 458.2 | 457.0 | 454.7 | 450.8 | 447.9 | 444.7 | 443.2 | 441.6 | 441.8 |
| 5°    | 451.4  | 446.9 | 442.6 | 437.0 | 430.1 | 422.2 | 416.9 | 410.7 | 407.4 | 404.3 | 405.2 |
| 7.5°  | 441.6  | 434.6 | 425.7 | 414.0 | 401.5 | 387.5 | 376.2 | 367.3 | 361.4 | 357.2 | 359.3 |
| 10°   | 435.4  | 427.2 | 411.8 | 392.6 | 371.4 | 350.0 | 333.8 | 318.6 | 309.1 | 301.7 | 301.3 |
| 12.5° | 434.2  | 423.5 | 401.1 | 373.3 | 342.6 | 314.1 | 290.2 | 269.6 | 257.1 | 247.8 | 251.3 |
| 15°   | 435.4  | 421.8 | 391.8 | 355.4 | 316.7 | 278.1 | 248.4 | 224.8 | 209.8 | 201.4 | 200.7 |
| 17.5° | 436.8  | 420.2 | 381.3 | 336.1 | 289.6 | 245.4 | 211.0 | 185.9 | 170.5 | 162.1 | 162.3 |
| 20°   | 438.1  | 417.7 | 369.0 | 314.9 | 262.0 | 214.9 | 179.3 | 155.5 | 141.7 | 135.5 | 136.6 |
| 22.5° | 440.1  | 415.2 | 355.8 | 292.3 | 233.8 | 185.5 | 154.3 | 134.9 | 126.7 | 122.6 | 122.8 |
| 25°   | 444.0  | 413.8 | 342.2 | 267.6 | 206.1 | 162.1 | 137.0 | 124.0 | 118.9 | 116.4 | 116.2 |
| 27.5° | 452.1  | 415.0 | 328.0 | 243.7 | 181.0 | 144.2 | 125.9 | 117.4 | 113.9 | 112.3 | 112.1 |
| 30°   | 465.4  | 420.0 | 315.7 | 219.4 | 159.4 | 130.2 | 118.3 | 113.1 | 111.1 | 109.6 | 109.4 |
| 32.5° | 485.8  | 429.2 | 302.3 | 196.8 | 141.9 | 119.9 | 112.3 | 109.6 | 108.2 | 107.4 | 107.4 |
| 35°   | 516.6  | 446.1 | 289.2 | 177.1 | 128.3 | 111.9 | 107.6 | 106.5 | 105.3 | 104.9 | 105.3 |
| 37.5° | 561.1  | 473.0 | 277.2 | 159.8 | 118.7 | 105.7 | 102.4 | 102.8 | 101.8 | 102.4 | 103.0 |
| 40°   | 617.4  | 509.0 | 267.2 | 145.6 | 111.5 | 101.2 | 97.9  | 99.3  | 98.7  | 99.3  | 100.4 |
| 42.5° | 688.8  | 553.7 | 259.6 | 134.5 | 106.3 | 97.5  | 94.4  | 95.8  | 95.4  | 96.3  | 97.3  |
| 45°   | 768.4  | 612.5 | 256.1 | 126.7 | 102.6 | 94.8  | 91.5  | 92.6  | 92.1  | 92.8  | 93.8  |
| 47.5° | 844.7  | 666.0 | 259.1 | 122.2 | 99.5  | 92.6  | 89.1  | 89.5  | 89.3  | 89.1  | 89.7  |
| 50°   | 910.5  | 708.5 | 268.0 | 120.7 | 97.5  | 90.3  | 87.0  | 87.2  | 86.6  | 85.4  | 85.8  |
| 52.5° | 964.2  | 742.7 | 273.3 | 120.7 | 96.5  | 87.8  | 84.7  | 84.9  | 83.7  | 82.1  | 82.3  |
| 55°   | 999.6  | 756.5 | 269.0 | 120.5 | 96.0  | 85.8  | 82.5  | 82.7  | 81.4  | 79.4  | 79.6  |
| 57.5° | 1009.6 | 743.1 | 250.9 | 118.3 | 95.6  | 84.1  | 80.2  | 80.6  | 79.8  | 77.5  | 77.5  |
| 60°   | 981.5  | 694.1 | 217.8 | 113.1 | 94.6  | 83.1  | 78.6  | 79.2  | 78.8  | 76.5  | 76.5  |
| 62.5° | 907.6  | 607.1 | 178.3 | 105.3 | 91.7  | 81.9  | 77.1  | 78.4  | 79.4  | 78.2  | 77.9  |
| 65°   | 769.4  | 486.4 | 145.0 | 96.7  | 88.0  | 79.8  | 75.1  | 78.2  | 80.4  | 82.1  | 82.1  |
| 67.5° | 577.3  | 348.2 | 118.3 | 87.6  | 82.5  | 75.7  | 72.4  | 75.3  | 76.9  | 77.9  | 78.6  |
| 70°   | 351.9  | 204.8 | 93.2  | 77.1  | 74.5  | 69.5  | 67.0  | 64.2  | 61.9  | 61.5  | 61.7  |
| 72.5° | 172.1  | 117.2 | 75.7  | 65.6  | 63.6  | 59.0  | 53.5  | 52.2  | 51.2  | 50.6  | 50.4  |
| 75°   | 94.8   | 81.7  | 62.5  | 54.5  | 50.8  | 45.2  | 44.0  | 42.0  | 41.5  | 40.7  | 40.9  |
| 77.5° | 67.0   | 64.4  | 51.6  | 44.2  | 38.7  | 35.8  | 36.4  | 35.0  | 35.0  | 34.3  | 34.1  |
| 80°   | 50.4   | 50.6  | 39.7  | 32.3  | 28.6  | 27.6  | 28.2  | 28.2  | 27.8  | 27.6  | 27.4  |
| 82.5° | 31.9   | 36.0  | 26.7  | 20.8  | 20.4  | 20.6  | 20.4  | 20.2  | 20.6  | 19.9  | 19.7  |
| 85°   | 22.0   | 25.9  | 16.2  | 12.3  | 12.3  | 12.1  | 12.5  | 12.3  | 12.8  | 12.1  | 12.1  |
| 87.5° | 4.9    | 11.5  | 6.0   | 3.7   | 3.9   | 3.7   | 3.9   | 4.1   | 4.5   | 4.7   | 4.7   |
| 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)