

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: P629372

Luminaire Tested: GWS-SA1B-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-740-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

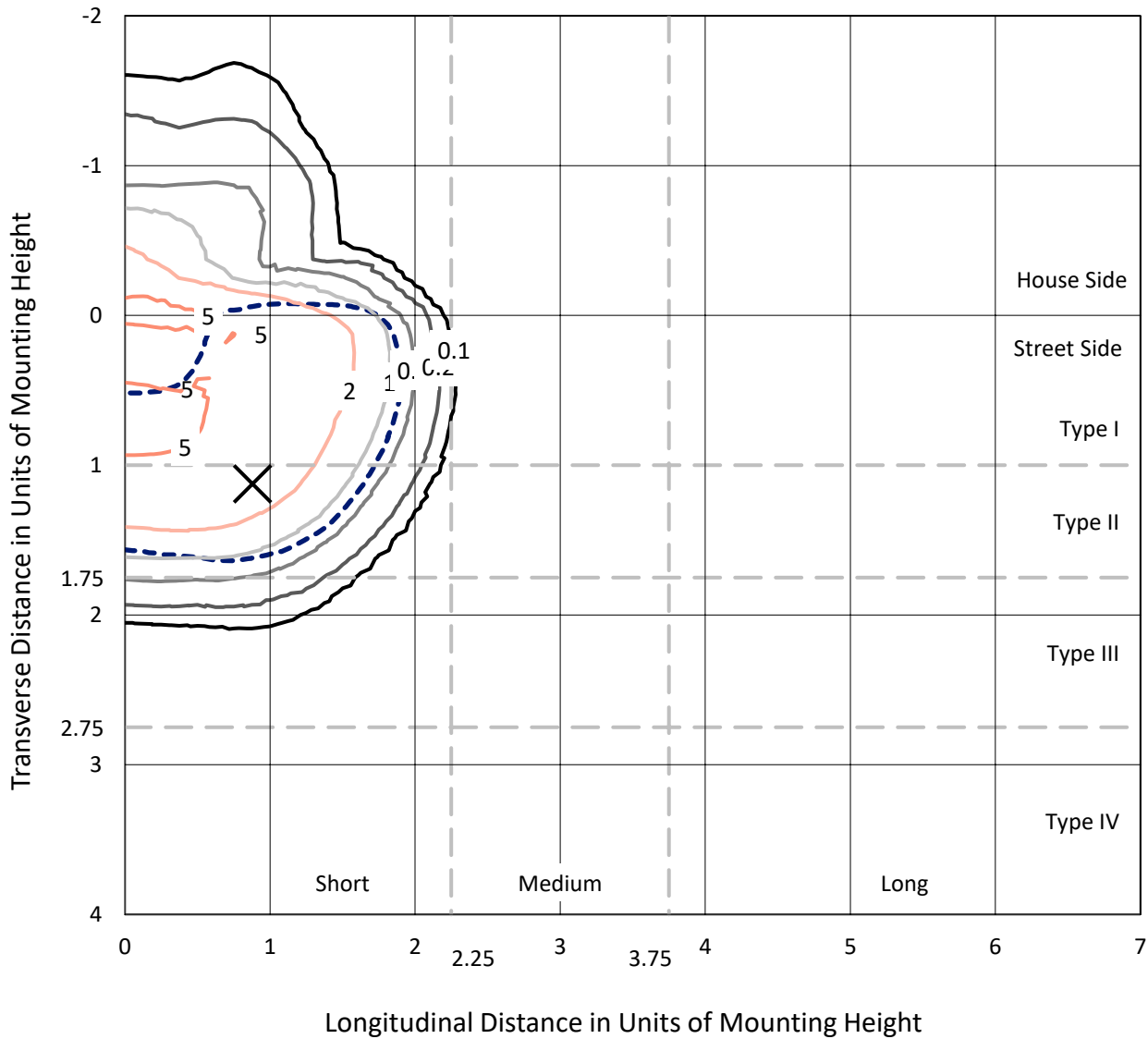
Lumens per Lamp: N/A  
Luminaire Lumens: 2247.9 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

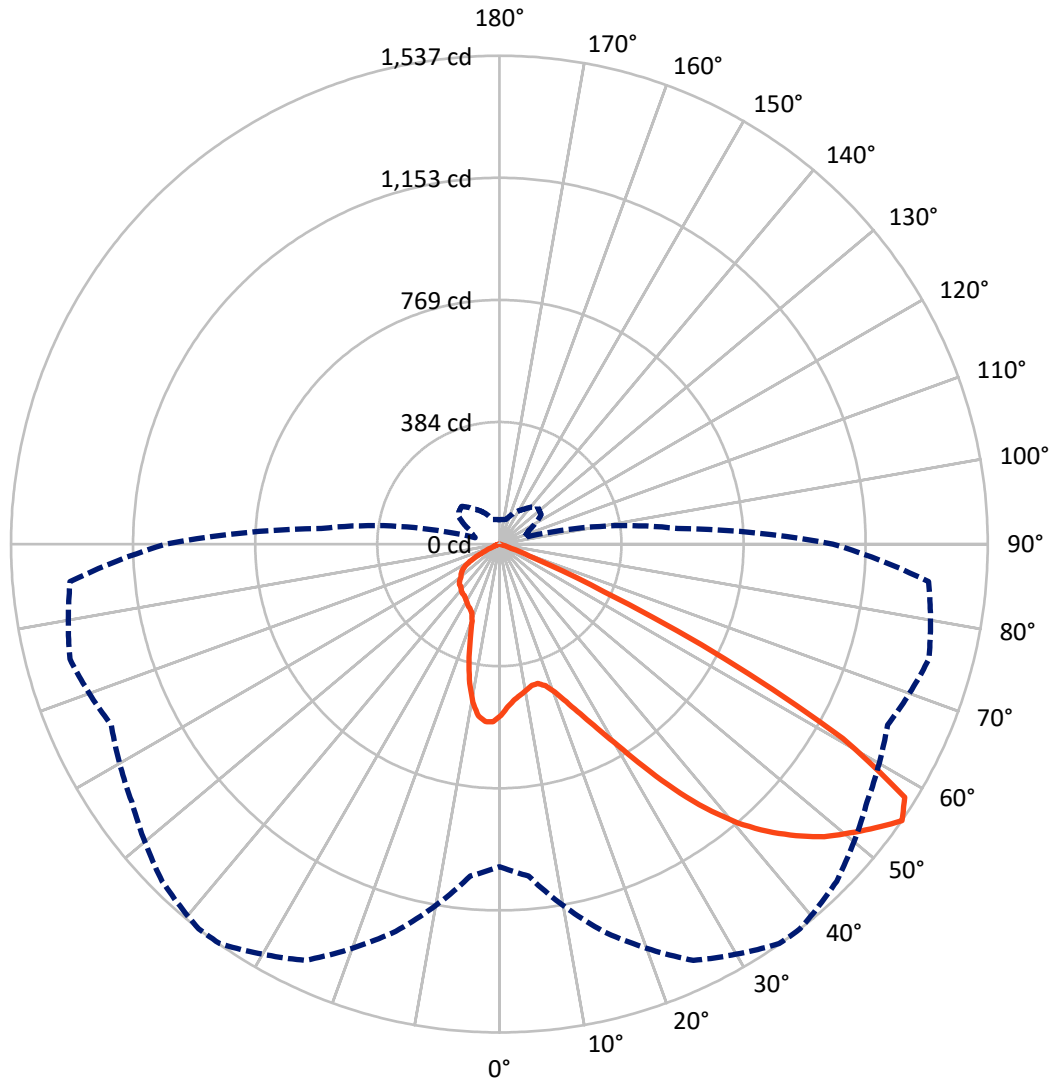
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 438.0    | 0.0    | 438.0  |
|                    | % Fixture | 19.5     | 0.0    | 19.5   |
| <b>Street Side</b> | Lumens    | 1809.9   | 0.0    | 1809.9 |
|                    | % Fixture | 80.5     | 0.0    | 80.5   |
| <b>Total</b>       | Lumens    | 2247.9   | 0.0    | 2247.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.8   | 2.2       |
| 10°-20°   | 134.2  | 6.0       |
| 20°-30°   | 230.3  | 10.2      |
| 30°-40°   | 381.9  | 17.0      |
| 40°-50°   | 561.4  | 25.0      |
| 50°-60°   | 656.1  | 29.2      |
| 60°-70°   | 222.4  | 9.9       |
| 70°-80°   | 11.4   | 0.5       |
| 80°-90°   | 0.5    | 0.0       |
| 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°    | 2247.9 | 100.0     |
| 0°-180°   | 2247.9 | 100.0     |

**Coefficient of Utilization**



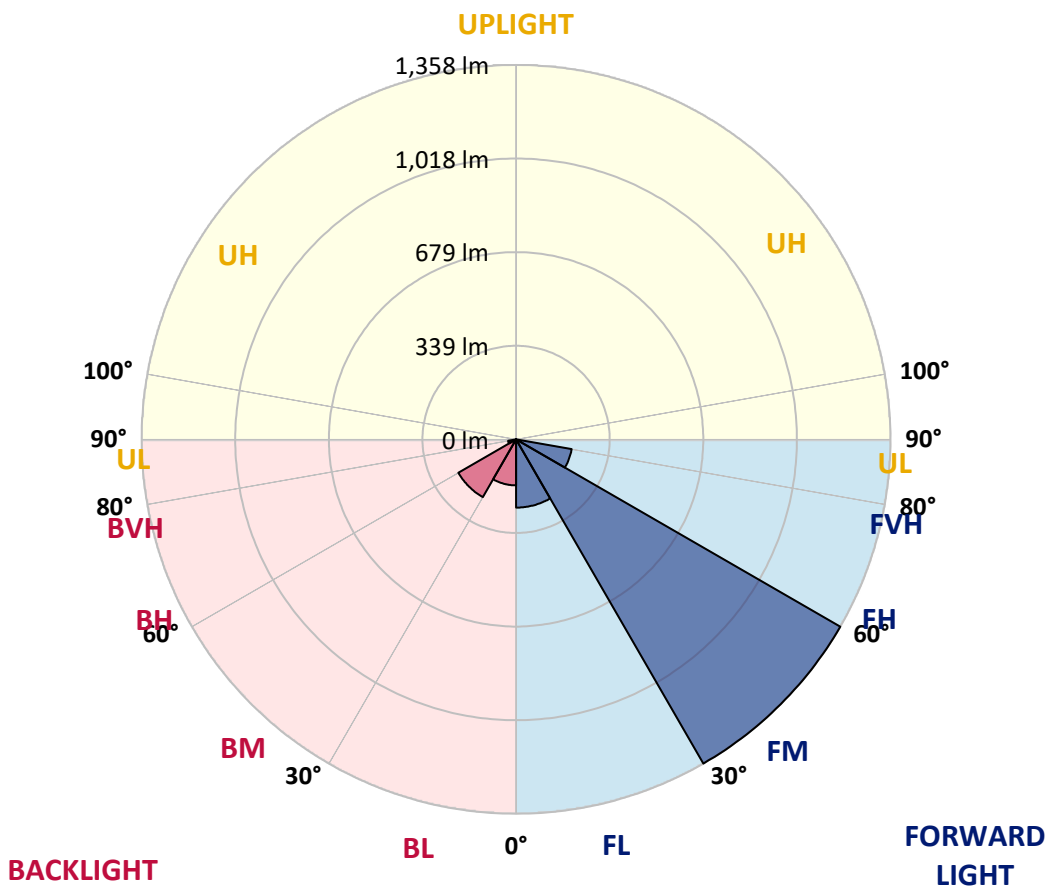
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 247.4  | 11.0      |                         |      |        |
| FM (30°-60°)   | 1357.7 | 60.4      |                         |      |        |
| FH (60°-80°)   | 204.6  | 9.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.2    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 166.9  | 7.4       | B1/500                  |      |        |
| BM (30°-60°)   | 241.7  | 10.8      | B1/1000                 |      |        |
| BH (60°-80°)   | 29.2   | 1.3       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.2    | 0.0       |                         |      | 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°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 539.1  | 539.1  | 539.1  | 539.1  | 539.1  | 539.1  | 539.1  | 539.1  | 539.1  | 539.1  | 539.1  |
| 2.5°  | 502.1  | 501.0  | 503.1  | 507.2  | 511.1  | 512.3  | 516.2  | 521.6  | 524.9  | 532.9  | 539.3  |
| 5°    | 479.5  | 478.9  | 481.0  | 484.6  | 489.7  | 491.5  | 497.4  | 506.4  | 515.4  | 529.3  | 542.9  |
| 7.5°  | 458.9  | 458.6  | 461.7  | 469.7  | 477.1  | 479.5  | 486.6  | 497.7  | 509.8  | 531.1  | 551.1  |
| 10°   | 431.9  | 432.2  | 438.1  | 449.4  | 463.0  | 467.6  | 479.2  | 495.1  | 510.8  | 538.3  | 566.0  |
| 12.5° | 423.2  | 423.7  | 426.8  | 435.5  | 450.4  | 456.3  | 472.5  | 496.7  | 516.7  | 548.6  | 585.3  |
| 15°   | 444.5  | 444.5  | 441.9  | 443.0  | 449.6  | 455.0  | 472.0  | 501.8  | 526.7  | 560.9  | 604.3  |
| 17.5° | 485.9  | 484.3  | 477.9  | 469.2  | 466.9  | 468.7  | 482.3  | 512.9  | 540.9  | 575.3  | 625.9  |
| 20°   | 541.9  | 542.4  | 529.8  | 511.6  | 496.9  | 496.7  | 504.9  | 532.4  | 561.2  | 592.5  | 649.3  |
| 22.5° | 609.7  | 607.7  | 591.0  | 566.0  | 540.6  | 538.5  | 541.9  | 562.2  | 590.5  | 619.7  | 678.1  |
| 25°   | 688.3  | 687.3  | 663.7  | 630.3  | 596.6  | 591.7  | 591.7  | 611.8  | 632.3  | 658.5  | 712.5  |
| 27.5° | 770.6  | 770.6  | 747.7  | 709.2  | 664.5  | 655.7  | 654.4  | 678.1  | 691.7  | 696.8  | 741.5  |
| 30°   | 855.1  | 854.1  | 831.5  | 791.9  | 744.1  | 735.1  | 731.5  | 749.0  | 758.7  | 743.3  | 777.8  |
| 32.5° | 940.9  | 942.7  | 919.9  | 883.1  | 840.5  | 834.5  | 823.5  | 823.5  | 831.5  | 809.9  | 834.8  |
| 35°   | 1033.2 | 1032.6 | 1014.7 | 989.7  | 953.3  | 946.6  | 928.3  | 899.8  | 911.9  | 902.4  | 913.7  |
| 37.5° | 1114.6 | 1118.5 | 1109.7 | 1091.2 | 1061.7 | 1055.0 | 1024.9 | 973.3  | 982.5  | 997.4  | 1007.5 |
| 40°   | 1197.3 | 1200.4 | 1209.2 | 1203.3 | 1166.0 | 1153.7 | 1100.2 | 1015.4 | 1025.7 | 1076.8 | 1105.6 |
| 42.5° | 1278.5 | 1280.1 | 1297.8 | 1307.6 | 1257.7 | 1236.1 | 1157.3 | 1041.1 | 1051.9 | 1139.0 | 1189.4 |
| 45°   | 1330.2 | 1333.5 | 1362.8 | 1392.6 | 1338.7 | 1309.1 | 1206.9 | 1074.0 | 1078.6 | 1182.2 | 1251.3 |
| 47.5° | 1328.1 | 1335.8 | 1390.8 | 1445.0 | 1408.3 | 1376.4 | 1266.5 | 1126.7 | 1119.0 | 1222.8 | 1292.2 |
| 50°   | 1286.8 | 1296.0 | 1374.9 | 1461.0 | 1458.4 | 1428.9 | 1332.8 | 1203.0 | 1178.8 | 1258.8 | 1297.3 |
| 52.5° | 1200.9 | 1227.7 | 1346.9 | 1463.0 | 1498.7 | 1483.8 | 1414.7 | 1305.8 | 1259.8 | 1310.4 | 1305.5 |
| 55°   | 1015.4 | 1048.3 | 1261.8 | 1445.6 | 1535.2 | 1537.0 | 1500.8 | 1412.9 | 1347.7 | 1399.3 | 1356.1 |
| 57.5° | 770.8  | 797.0  | 971.2  | 1286.8 | 1474.8 | 1504.4 | 1534.2 | 1469.4 | 1401.9 | 1459.9 | 1368.0 |
| 60°   | 464.6  | 494.9  | 608.2  | 944.3  | 1191.2 | 1241.5 | 1358.5 | 1345.9 | 1264.4 | 1289.3 | 1121.8 |
| 62.5° | 188.3  | 204.3  | 280.8  | 520.3  | 749.8  | 796.8  | 908.8  | 927.8  | 907.8  | 882.3  | 680.4  |
| 65°   | 68.9   | 75.3   | 112.5  | 215.1  | 344.8  | 362.0  | 421.1  | 454.8  | 482.5  | 410.8  | 253.1  |
| 67.5° | 42.7   | 46.8   | 73.2   | 110.5  | 125.4  | 116.7  | 118.7  | 141.6  | 135.2  | 83.5   | 45.2   |
| 70°   | 31.6   | 34.9   | 57.3   | 76.6   | 50.6   | 39.1   | 26.5   | 28.3   | 25.4   | 22.4   | 22.1   |
| 72.5° | 21.8   | 24.9   | 42.9   | 45.2   | 19.5   | 13.9   | 9.8    | 13.6   | 15.4   | 15.2   | 15.7   |
| 75°   | 14.4   | 16.7   | 27.0   | 17.7   | 4.9    | 3.9    | 3.3    | 7.2    | 9.2    | 9.2    | 9.5    |
| 77.5° | 8.5    | 9.8    | 9.5    | 3.6    | 1.0    | 1.0    | 0.8    | 1.3    | 2.1    | 2.3    | 2.8    |
| 80°   | 1.0    | 0.8    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.8    | 0.8    | 0.8    |
| 82.5° | 0.3    | 0.3    | 0.3    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.8    | 0.8    |
| 85°   | 0.0    | 0.0    | 0.3    | 0.3    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.8    | 0.8    |
| 87.5° | 0.0    | 0.0    | 0.3    | 0.3    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.8    | 0.8    |
| 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°    | 539.1  | 539.1 | 539.1 | 539.1 | 539.1 | 539.1 | 539.1 | 539.1 | 539.1 | 539.1 | 539.1 |
| 2.5°  | 544.2  | 542.4 | 549.9 | 555.3 | 559.6 | 561.7 | 558.8 | 558.6 | 558.6 | 552.9 | 551.4 |
| 5°    | 550.6  | 551.4 | 561.9 | 566.6 | 567.3 | 564.8 | 558.3 | 554.0 | 551.4 | 545.5 | 542.1 |
| 7.5°  | 563.0  | 565.5 | 575.5 | 574.8 | 567.8 | 556.0 | 539.1 | 526.0 | 517.5 | 508.2 | 502.6 |
| 10°   | 580.7  | 585.6 | 591.7 | 580.9 | 558.8 | 528.8 | 493.8 | 468.9 | 454.0 | 443.5 | 437.1 |
| 12.5° | 602.3  | 607.2 | 605.1 | 579.7 | 533.7 | 480.0 | 435.0 | 399.0 | 381.8 | 372.3 | 365.6 |
| 15°   | 624.1  | 627.2 | 613.8 | 564.2 | 489.2 | 417.0 | 366.9 | 331.2 | 310.1 | 302.4 | 296.8 |
| 17.5° | 646.5  | 645.7 | 615.4 | 533.9 | 429.9 | 346.1 | 296.8 | 272.4 | 266.4 | 265.2 | 264.6 |
| 20°   | 669.8  | 662.9 | 609.2 | 490.5 | 358.4 | 276.0 | 247.9 | 249.5 | 260.3 | 265.4 | 266.4 |
| 22.5° | 696.6  | 679.1 | 593.8 | 431.7 | 285.5 | 230.0 | 232.8 | 247.9 | 262.6 | 269.5 | 270.6 |
| 25°   | 725.1  | 694.0 | 568.1 | 356.1 | 225.1 | 211.5 | 228.2 | 245.6 | 261.3 | 269.8 | 270.8 |
| 27.5° | 743.8  | 697.6 | 526.0 | 280.1 | 193.2 | 204.3 | 222.0 | 238.7 | 254.9 | 264.1 | 265.4 |
| 30°   | 764.1  | 696.1 | 468.7 | 215.8 | 182.4 | 198.1 | 213.5 | 228.7 | 243.6 | 253.9 | 254.9 |
| 32.5° | 793.9  | 695.0 | 398.8 | 175.2 | 178.1 | 193.2 | 204.5 | 217.1 | 227.4 | 233.3 | 232.5 |
| 35°   | 833.0  | 693.7 | 317.3 | 158.0 | 175.5 | 189.4 | 198.4 | 204.3 | 193.0 | 189.4 | 190.1 |
| 37.5° | 883.1  | 696.8 | 248.7 | 150.8 | 174.7 | 188.3 | 196.0 | 179.1 | 161.6 | 154.9 | 153.9 |
| 40°   | 938.6  | 704.8 | 189.6 | 148.0 | 177.3 | 190.9 | 187.3 | 159.3 | 137.7 | 124.6 | 121.8 |
| 42.5° | 994.4  | 713.5 | 150.1 | 147.0 | 181.7 | 198.1 | 172.9 | 144.9 | 112.5 | 105.1 | 104.1 |
| 45°   | 1035.7 | 712.0 | 129.8 | 145.2 | 185.5 | 202.2 | 169.1 | 124.4 | 100.5 | 97.1  | 97.4  |
| 47.5° | 1056.5 | 695.0 | 118.7 | 141.1 | 187.1 | 198.1 | 159.6 | 115.9 | 92.2  | 95.8  | 98.9  |
| 50°   | 1045.5 | 651.1 | 108.4 | 133.1 | 183.7 | 192.7 | 144.4 | 109.5 | 88.1  | 103.0 | 110.0 |
| 52.5° | 1032.1 | 597.1 | 97.1  | 120.8 | 175.7 | 185.3 | 138.5 | 107.7 | 85.6  | 99.4  | 104.6 |
| 55°   | 1049.9 | 563.0 | 78.6  | 101.7 | 160.1 | 167.8 | 133.9 | 107.4 | 79.7  | 77.3  | 76.6  |
| 57.5° | 1024.9 | 494.9 | 56.3  | 73.2  | 122.8 | 132.8 | 130.5 | 105.6 | 70.7  | 70.4  | 71.4  |
| 60°   | 792.2  | 301.9 | 38.5  | 46.5  | 75.3  | 84.8  | 118.5 | 101.0 | 60.9  | 56.0  | 56.3  |
| 62.5° | 450.2  | 128.5 | 26.5  | 28.8  | 38.5  | 45.7  | 90.4  | 91.7  | 56.3  | 53.4  | 56.3  |
| 65°   | 156.7  | 46.0  | 20.6  | 19.3  | 21.3  | 24.4  | 51.9  | 70.9  | 51.1  | 46.2  | 46.8  |
| 67.5° | 32.4   | 22.9  | 18.2  | 15.9  | 15.9  | 15.9  | 26.5  | 44.2  | 42.1  | 36.7  | 37.3  |
| 70°   | 20.6   | 19.5  | 15.9  | 13.6  | 13.1  | 12.1  | 15.2  | 24.4  | 29.0  | 26.7  | 27.0  |
| 72.5° | 15.2   | 14.9  | 12.6  | 11.0  | 9.8   | 8.7   | 9.5   | 12.1  | 14.9  | 15.4  | 15.7  |
| 75°   | 9.2    | 9.5   | 8.2   | 6.9   | 6.2   | 5.4   | 5.7   | 5.7   | 5.7   | 5.1   | 5.7   |
| 77.5° | 2.8    | 3.1   | 2.6   | 2.1   | 1.8   | 1.8   | 1.8   | 1.5   | 1.3   | 0.8   | 0.8   |
| 80°   | 0.8    | 0.8   | 0.8   | 0.8   | 0.8   | 0.5   | 0.5   | 0.3   | 0.3   | 0.0   | 0.0   |
| 82.5° | 0.8    | 0.8   | 0.8   | 0.8   | 0.5   | 0.5   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.8    | 0.8   | 0.8   | 0.8   | 0.5   | 0.5   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.8    | 0.8   | 0.8   | 0.8   | 0.5   | 0.5   | 0.3   | 0.3   | 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)