

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: P641928

Luminaire Tested: GWS-SA6B-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641928  
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-SA6B-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

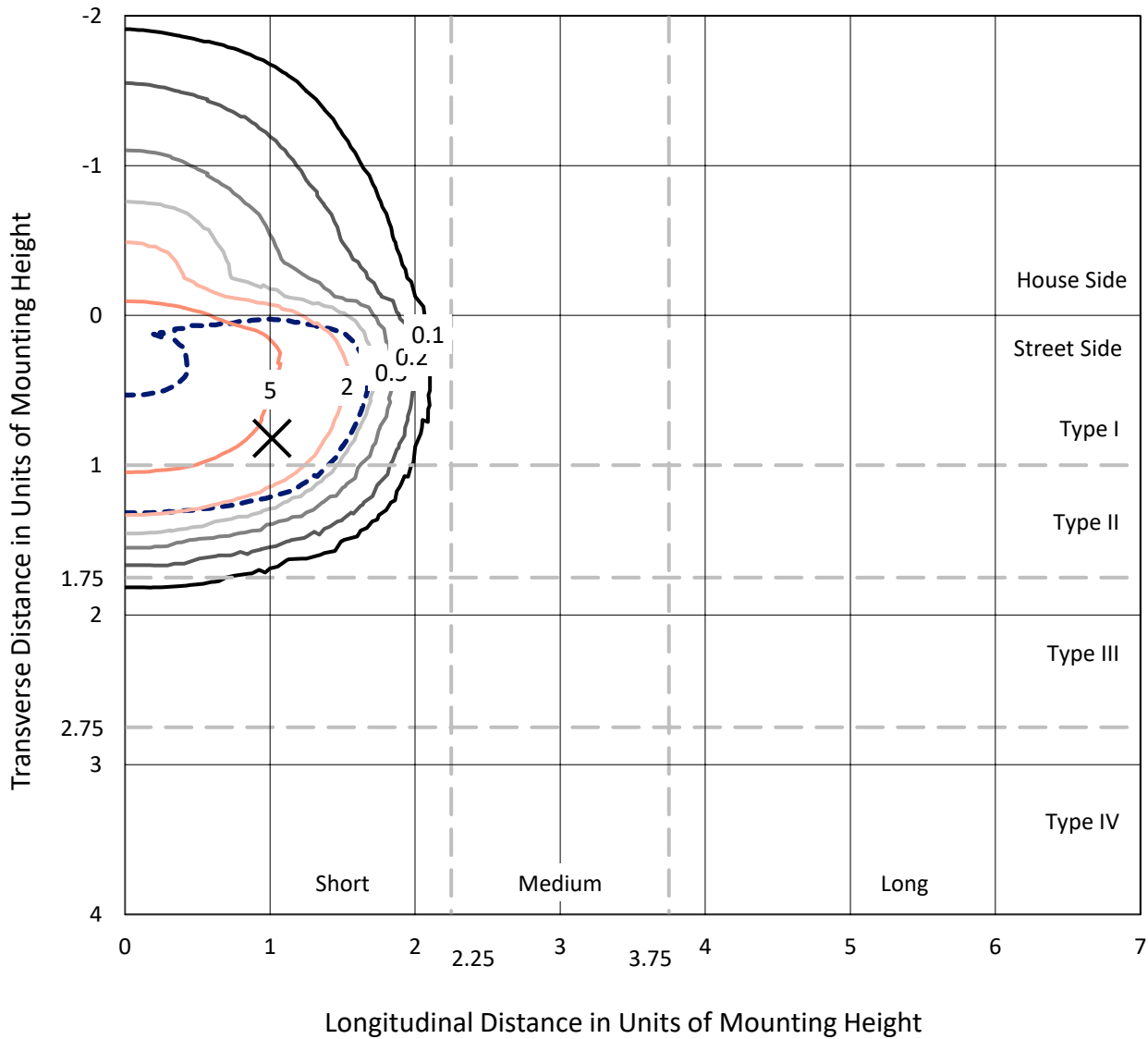
Lumens per Lamp: N/A  
Luminaire Lumens: 15258.4 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

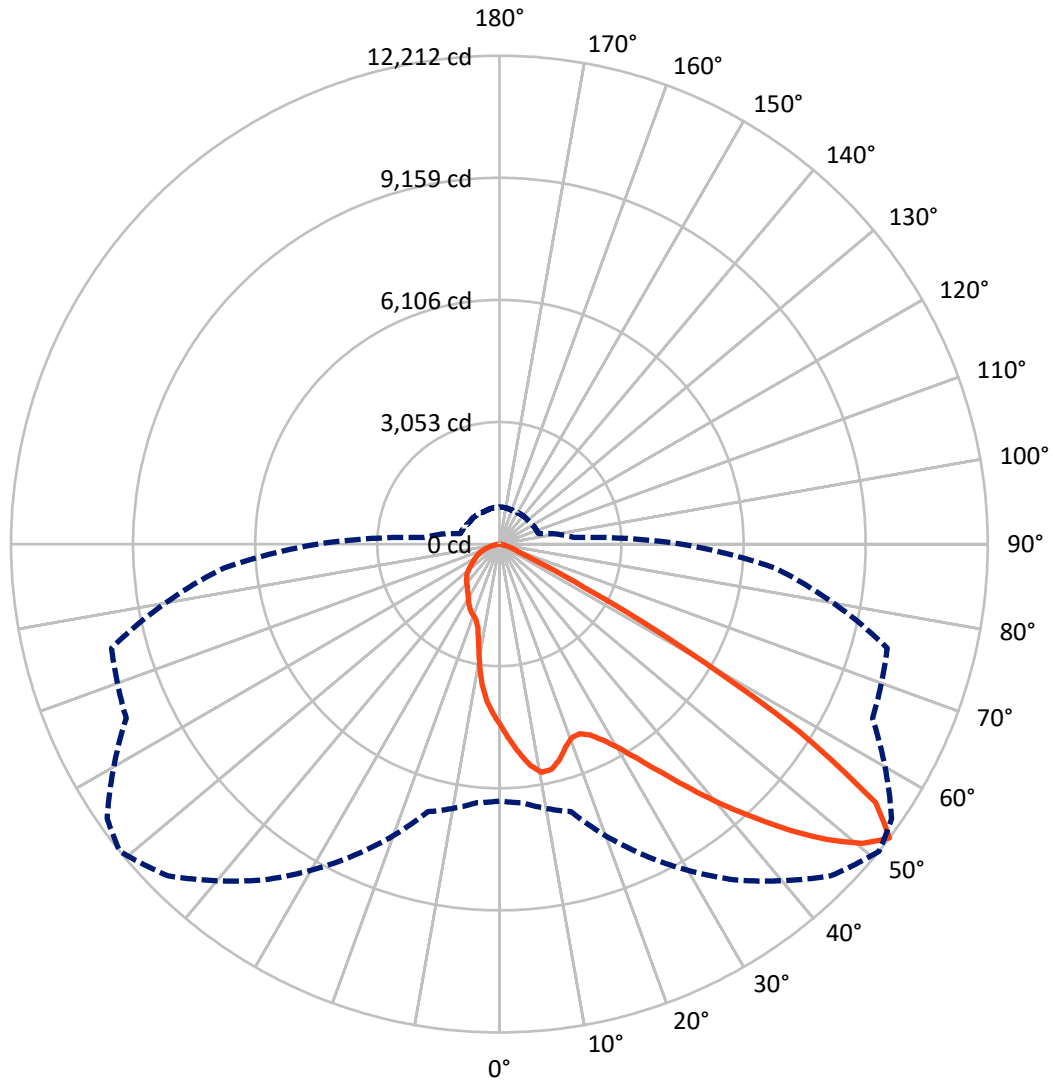
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2973.0   | 0.0    | 2973.0  |
|                    | % Fixture | 19.5     | 0.0    | 19.5    |
| <b>Street Side</b> | Lumens    | 12285.4  | 0.0    | 12285.4 |
|                    | % Fixture | 80.5     | 0.0    | 80.5    |
| <b>Total</b>       | Lumens    | 15258.4  | 0.0    | 15258.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 423.9   | 2.8       |
| 10°-20°   | 1101.6  | 7.2       |
| 20°-30°   | 1791.1  | 11.7      |
| 30°-40°   | 2838.4  | 18.6      |
| 40°-50°   | 4281.0  | 28.1      |
| 50°-60°   | 3703.4  | 24.3      |
| 60°-70°   | 839.6   | 5.5       |
| 70°-80°   | 247.6   | 1.6       |
| 80°-90°   | 31.9    | 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°    | 15258.4 | 100.0     |
| 0°-180°   | 15258.4 | 100.0     |

**Coefficient of Utilization**



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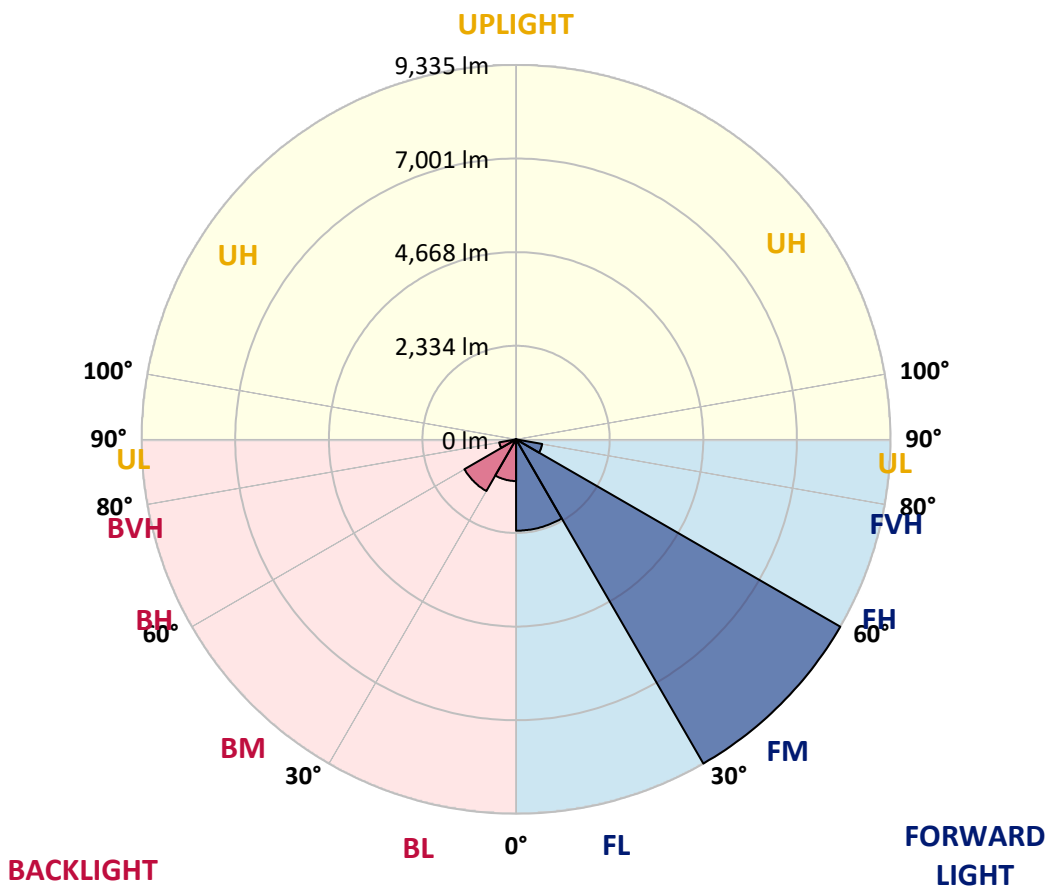
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2277.4 | 14.9      |                         |      |         |
| FM (30°-60°)   | 9335.3 | 61.2      |                         |      |         |
| FH (60°-80°)   | 660.7  | 4.3       |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.0   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1039.2 | 6.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 1487.5 | 9.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 426.4  | 2.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 19.9   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 51°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4543.2 | 4543.2 | 4543.2 | 4543.2  | 4543.2  | 4543.2  | 4543.2  | 4543.2  | 4543.2  | 4543.2  | 4543.2 |
| 2.5°  | 5062.9 | 5091.8 | 5047.2 | 5030.3  | 5002.6  | 4954.3  | 4898.9  | 4883.2  | 4763.8  | 4685.5  | 4597.4 |
| 5°    | 5571.7 | 5587.3 | 5551.2 | 5515.0  | 5446.3  | 5360.7  | 5253.4  | 5230.5  | 5013.4  | 4833.8  | 4646.9 |
| 7.5°  | 5685.0 | 5679.0 | 5710.3 | 5730.8  | 5722.4  | 5688.6  | 5593.4  | 5548.8  | 5289.5  | 5005.0  | 4728.9 |
| 10°   | 5236.5 | 5202.7 | 5318.5 | 5455.9  | 5621.1  | 5811.6  | 5800.8  | 5797.1  | 5571.7  | 5235.3  | 4833.8 |
| 12.5° | 4642.1 | 4625.2 | 4719.2 | 4891.6  | 5203.9  | 5625.9  | 5783.9  | 5906.9  | 5826.1  | 5454.7  | 4950.7 |
| 15°   | 4302.0 | 4296.0 | 4359.9 | 4484.1  | 4732.5  | 5265.4  | 5603.0  | 5846.6  | 6044.3  | 5689.8  | 5074.9 |
| 17.5° | 4240.5 | 4244.2 | 4265.9 | 4337.0  | 4515.5  | 4954.3  | 5345.0  | 5685.0  | 6214.3  | 5947.9  | 5230.5 |
| 20°   | 4420.2 | 4444.3 | 4406.9 | 4417.8  | 4514.2  | 4842.2  | 5169.0  | 5522.2  | 6322.8  | 6207.1  | 5398.0 |
| 22.5° | 4819.3 | 4810.9 | 4728.9 | 4680.6  | 4681.8  | 4910.9  | 5149.7  | 5446.3  | 6394.0  | 6459.1  | 5550.0 |
| 25°   | 5271.4 | 5261.8 | 5164.1 | 5056.8  | 4989.3  | 5097.8  | 5288.3  | 5527.1  | 6457.9  | 6689.4  | 5671.7 |
| 27.5° | 5805.6 | 5775.4 | 5666.9 | 5529.5  | 5380.0  | 5427.0  | 5556.0  | 5745.3  | 6556.8  | 6916.1  | 5752.5 |
| 30°   | 6322.8 | 6357.8 | 6202.3 | 6039.5  | 5881.5  | 5852.6  | 5927.4  | 6098.6  | 6758.1  | 7181.3  | 5849.0 |
| 32.5° | 7008.9 | 6996.8 | 6824.4 | 6612.2  | 6386.7  | 6365.0  | 6424.1  | 6580.9  | 7119.8  | 7547.9  | 5996.1 |
| 35°   | 7839.7 | 7842.1 | 7597.3 | 7310.3  | 6989.6  | 6931.7  | 7030.6  | 7182.5  | 7658.8  | 8044.6  | 6228.8 |
| 37.5° | 8703.0 | 8699.3 | 8485.9 | 8160.4  | 7722.7  | 7640.7  | 7754.0  | 7867.4  | 8332.8  | 8721.0  | 6590.5 |
| 40°   | 9308.2 | 9332.3 | 9232.3 | 9061.1  | 8646.3  | 8446.1  | 8546.2  | 8624.6  | 9065.9  | 9516.8  | 7066.8 |
| 42.5° | 9651.9 | 9688.0 | 9709.7 | 9812.2  | 9594.0  | 9380.6  | 9344.4  | 9385.4  | 9720.6  | 10255.9 | 7514.1 |
| 45°   | 9725.4 | 9773.6 | 9931.6 | 10311.4 | 10395.8 | 10335.5 | 10217.3 | 10118.5 | 10208.9 | 10780.4 | 7807.1 |
| 47.5° | 9401.1 | 9485.5 | 9823.1 | 10487.4 | 10980.6 | 11169.9 | 11038.4 | 10887.7 | 10491.0 | 10915.5 | 7777.0 |
| 50°   | 8115.8 | 8214.6 | 8975.4 | 10128.1 | 11063.8 | 11753.4 | 11765.5 | 11542.4 | 10457.3 | 10526.0 | 7398.4 |
| 52.5° | 6425.3 | 6492.9 | 6928.1 | 8586.0  | 10247.5 | 11729.3 | 12211.6 | 11972.9 | 10294.5 | 10038.9 | 6924.5 |
| 55°   | 3840.2 | 3948.8 | 4355.1 | 5664.5  | 7983.1  | 10395.8 | 11423.1 | 11538.8 | 10214.9 | 9630.2  | 6601.4 |
| 57.5° | 1296.2 | 1349.2 | 1737.5 | 2501.9  | 4704.8  | 7611.8  | 8825.9  | 9296.2  | 9273.3  | 9005.6  | 5970.8 |
| 60°   | 617.3  | 629.4  | 707.8  | 948.9   | 1883.3  | 3977.7  | 5224.4  | 5767.0  | 6261.4  | 6310.8  | 3714.9 |
| 62.5° | 470.2  | 477.5  | 517.3  | 569.1   | 757.2   | 1676.0  | 2394.6  | 2809.3  | 3001.1  | 2575.4  | 1352.8 |
| 65°   | 393.1  | 399.1  | 429.2  | 461.8   | 514.8   | 725.8   | 918.8   | 1059.8  | 954.9   | 743.9   | 645.1  |
| 67.5° | 328.0  | 332.8  | 355.7  | 390.7   | 426.8   | 485.9   | 510.0   | 524.5   | 549.8   | 617.3   | 593.2  |
| 70°   | 256.8  | 261.6  | 285.8  | 315.9   | 350.9   | 365.3   | 388.2   | 402.7   | 453.4   | 540.2   | 537.8  |
| 72.5° | 197.7  | 203.8  | 217.0  | 236.3   | 265.3   | 279.7   | 305.0   | 321.9   | 350.9   | 420.8   | 449.7  |
| 75°   | 144.7  | 148.3  | 160.4  | 166.4   | 170.0   | 166.4   | 191.7   | 211.0   | 249.6   | 276.1   | 283.3  |
| 77.5° | 59.1   | 66.3   | 63.9   | 63.9    | 76.0    | 91.6    | 104.9   | 117.0   | 143.5   | 159.2   | 160.4  |
| 80°   | 24.1   | 26.5   | 31.3   | 35.0    | 42.2    | 54.3    | 62.7    | 67.5    | 79.6    | 89.2    | 96.5   |
| 82.5° | 14.5   | 15.7   | 18.1   | 19.3    | 24.1    | 31.3    | 36.2    | 39.8    | 49.4    | 59.1    | 62.7   |
| 85°   | 7.2    | 7.2    | 8.4    | 9.6     | 12.1    | 14.5    | 16.9    | 19.3    | 25.3    | 31.3    | 35.0   |
| 87.5° | 1.2    | 1.2    | 1.2    | 2.4     | 3.6     | 4.8     | 6.0     | 7.2     | 8.4     | 9.6     | 12.1   |
| 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°    | 4543.2 | 4543.2 | 4543.2 | 4543.2 | 4543.2 | 4543.2 | 4543.2 | 4543.2 | 4543.2 | 4543.2 | 4543.2 |
| 2.5°  | 4545.6 | 4480.5 | 4404.5 | 4344.2 | 4274.3 | 4222.5 | 4148.9 | 4103.1 | 4059.7 | 4023.5 | 3997.0 |
| 5°    | 4550.4 | 4440.7 | 4282.7 | 4142.9 | 3998.2 | 3860.7 | 3719.7 | 3605.1 | 3502.6 | 3417.0 | 3409.8 |
| 7.5°  | 4578.2 | 4420.2 | 4173.0 | 3928.3 | 3646.1 | 3373.6 | 3101.1 | 2879.3 | 2710.5 | 2622.5 | 2604.4 |
| 10°   | 4625.2 | 4417.8 | 4060.9 | 3670.2 | 3189.2 | 2750.3 | 2427.1 | 2258.3 | 2160.7 | 2125.7 | 2113.6 |
| 12.5° | 4674.6 | 4411.8 | 3917.4 | 3306.1 | 2638.1 | 2253.5 | 2076.3 | 2055.8 | 2073.9 | 2076.3 | 2075.1 |
| 15°   | 4734.9 | 4408.1 | 3736.6 | 2879.3 | 2235.4 | 2023.2 | 2035.3 | 2078.7 | 2120.9 | 2130.5 | 2130.5 |
| 17.5° | 4808.4 | 4399.7 | 3490.6 | 2462.1 | 1983.4 | 1978.6 | 2042.5 | 2100.4 | 2140.2 | 2147.4 | 2147.4 |
| 20°   | 4885.6 | 4378.0 | 3187.9 | 2122.1 | 1880.9 | 1950.9 | 2019.6 | 2064.2 | 2091.9 | 2101.6 | 2102.8 |
| 22.5° | 4938.7 | 4320.1 | 2839.5 | 1870.1 | 1817.0 | 1897.8 | 1947.3 | 1993.1 | 1993.1 | 1969.0 | 1961.7 |
| 25°   | 4949.5 | 4195.9 | 2462.1 | 1697.7 | 1741.1 | 1815.8 | 1866.5 | 1839.9 | 1790.5 | 1771.2 | 1770.0 |
| 27.5° | 4909.7 | 4015.1 | 2089.5 | 1574.7 | 1649.4 | 1724.2 | 1715.8 | 1677.2 | 1655.5 | 1636.2 | 1643.4 |
| 30°   | 4861.5 | 3798.0 | 1766.4 | 1473.4 | 1543.3 | 1616.9 | 1587.9 | 1574.7 | 1559.0 | 1537.3 | 1542.1 |
| 32.5° | 4828.9 | 3555.7 | 1518.0 | 1395.0 | 1472.2 | 1484.3 | 1504.7 | 1503.5 | 1489.1 | 1448.1 | 1445.7 |
| 35°   | 4838.6 | 3310.9 | 1351.6 | 1331.1 | 1413.1 | 1408.3 | 1446.9 | 1439.6 | 1339.6 | 1282.9 | 1279.3 |
| 37.5° | 4915.8 | 3075.8 | 1254.0 | 1280.5 | 1319.1 | 1349.2 | 1383.0 | 1296.2 | 1261.2 | 1225.0 | 1227.4 |
| 40°   | 5062.9 | 2857.6 | 1200.9 | 1252.8 | 1262.4 | 1307.0 | 1228.6 | 1227.4 | 1211.8 | 1179.2 | 1178.0 |
| 42.5° | 5229.2 | 2673.1 | 1164.7 | 1239.5 | 1226.2 | 1234.7 | 1151.5 | 1161.1 | 1159.9 | 1139.4 | 1133.4 |
| 45°   | 5330.5 | 2503.1 | 1135.8 | 1190.1 | 1193.7 | 1109.3 | 1084.0 | 1094.8 | 1100.8 | 1090.0 | 1088.8 |
| 47.5° | 5225.6 | 2307.8 | 1105.7 | 1114.1 | 1145.4 | 1052.6 | 1021.3 | 1022.5 | 1033.3 | 1034.5 | 1029.7 |
| 50°   | 4931.4 | 2089.5 | 1069.5 | 1049.0 | 1028.5 | 993.5  | 964.6  | 958.6  | 969.4  | 980.3  | 983.9  |
| 52.5° | 4551.6 | 1880.9 | 1009.2 | 977.8  | 929.6  | 929.6  | 916.4  | 897.1  | 911.5  | 926.0  | 930.8  |
| 55°   | 4273.1 | 1726.6 | 923.6  | 888.6  | 835.6  | 853.7  | 851.2  | 834.4  | 853.7  | 864.5  | 868.1  |
| 57.5° | 3702.8 | 1387.8 | 812.7  | 801.8  | 757.2  | 778.9  | 783.7  | 762.0  | 752.4  | 754.8  | 758.4  |
| 60°   | 2198.0 | 895.9  | 733.1  | 731.9  | 692.1  | 717.4  | 731.9  | 710.2  | 681.2  | 684.9  | 689.7  |
| 62.5° | 986.3  | 684.9  | 633.0  | 628.2  | 627.0  | 659.5  | 675.2  | 654.7  | 613.7  | 617.3  | 622.2  |
| 65°   | 621.0  | 592.0  | 549.8  | 549.8  | 569.1  | 596.8  | 608.9  | 592.0  | 545.0  | 539.0  | 543.8  |
| 67.5° | 576.3  | 551.0  | 507.6  | 499.2  | 508.8  | 531.7  | 532.9  | 500.4  | 472.6  | 467.8  | 467.8  |
| 70°   | 517.3  | 498.0  | 455.8  | 438.9  | 435.3  | 434.1  | 430.4  | 422.0  | 403.9  | 399.1  | 401.5  |
| 72.5° | 428.0  | 414.8  | 388.2  | 370.2  | 360.5  | 359.3  | 344.8  | 337.6  | 321.9  | 319.5  | 318.3  |
| 75°   | 283.3  | 287.0  | 287.0  | 284.6  | 276.1  | 272.5  | 256.8  | 249.6  | 231.5  | 224.3  | 223.1  |
| 77.5° | 167.6  | 171.2  | 176.0  | 177.2  | 176.0  | 176.0  | 161.6  | 153.1  | 135.0  | 125.4  | 123.0  |
| 80°   | 102.5  | 104.9  | 107.3  | 110.9  | 106.1  | 102.5  | 89.2   | 80.8   | 72.3   | 66.3   | 65.1   |
| 82.5° | 66.3   | 68.7   | 69.9   | 72.3   | 69.9   | 65.1   | 54.3   | 49.4   | 43.4   | 38.6   | 37.4   |
| 85°   | 37.4   | 38.6   | 41.0   | 41.0   | 37.4   | 33.8   | 27.7   | 24.1   | 20.5   | 18.1   | 18.1   |
| 87.5° | 13.3   | 13.3   | 13.3   | 14.5   | 12.1   | 10.9   | 7.2    | 4.8    | 3.6    | 3.6    | 3.6    |
| 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)