

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: P631535

Luminaire Tested: GWS-SA1F-830-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-830-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6815.2 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
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

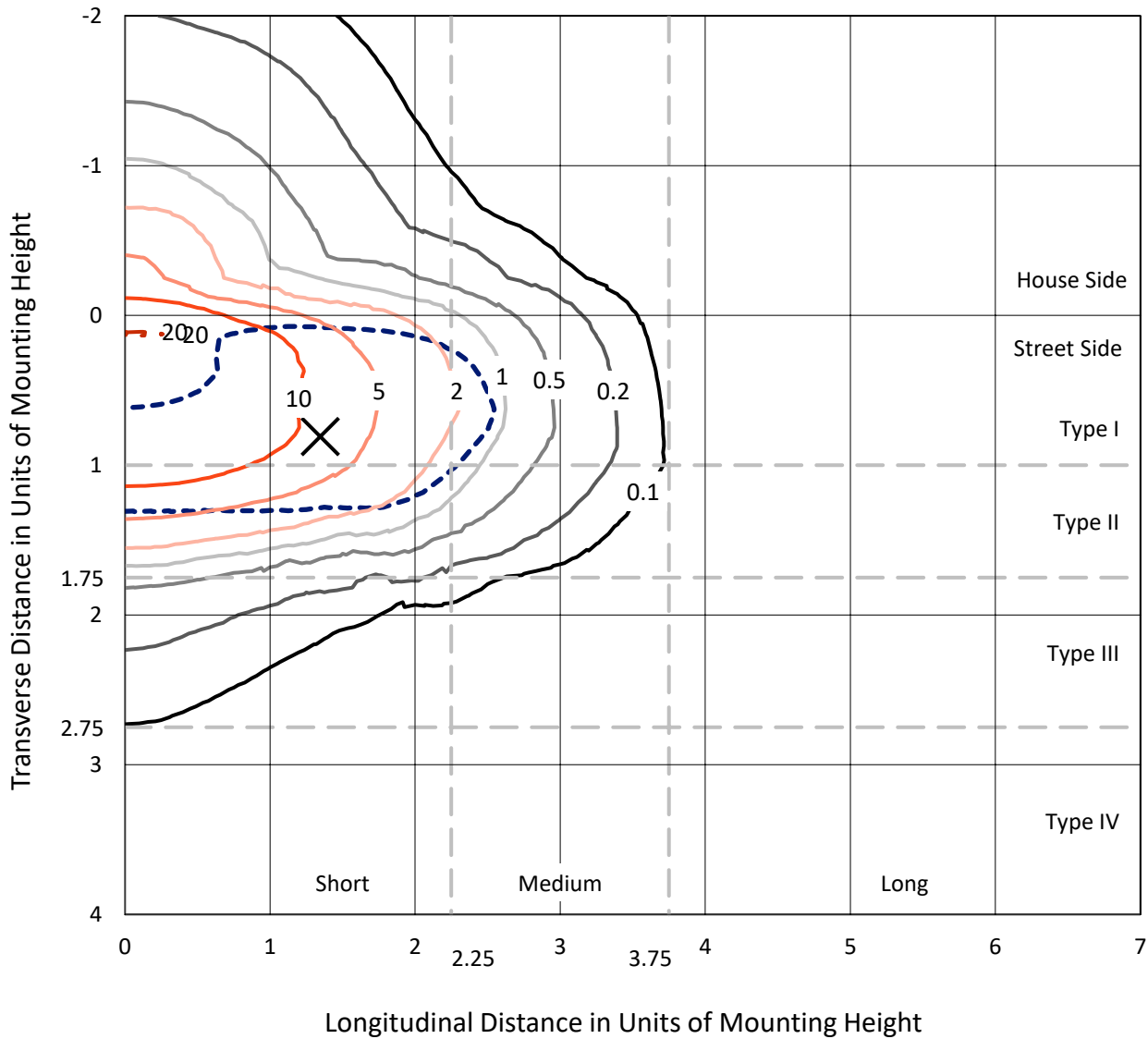


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### Iso-Footcandle Lines of Horizontal Illumination

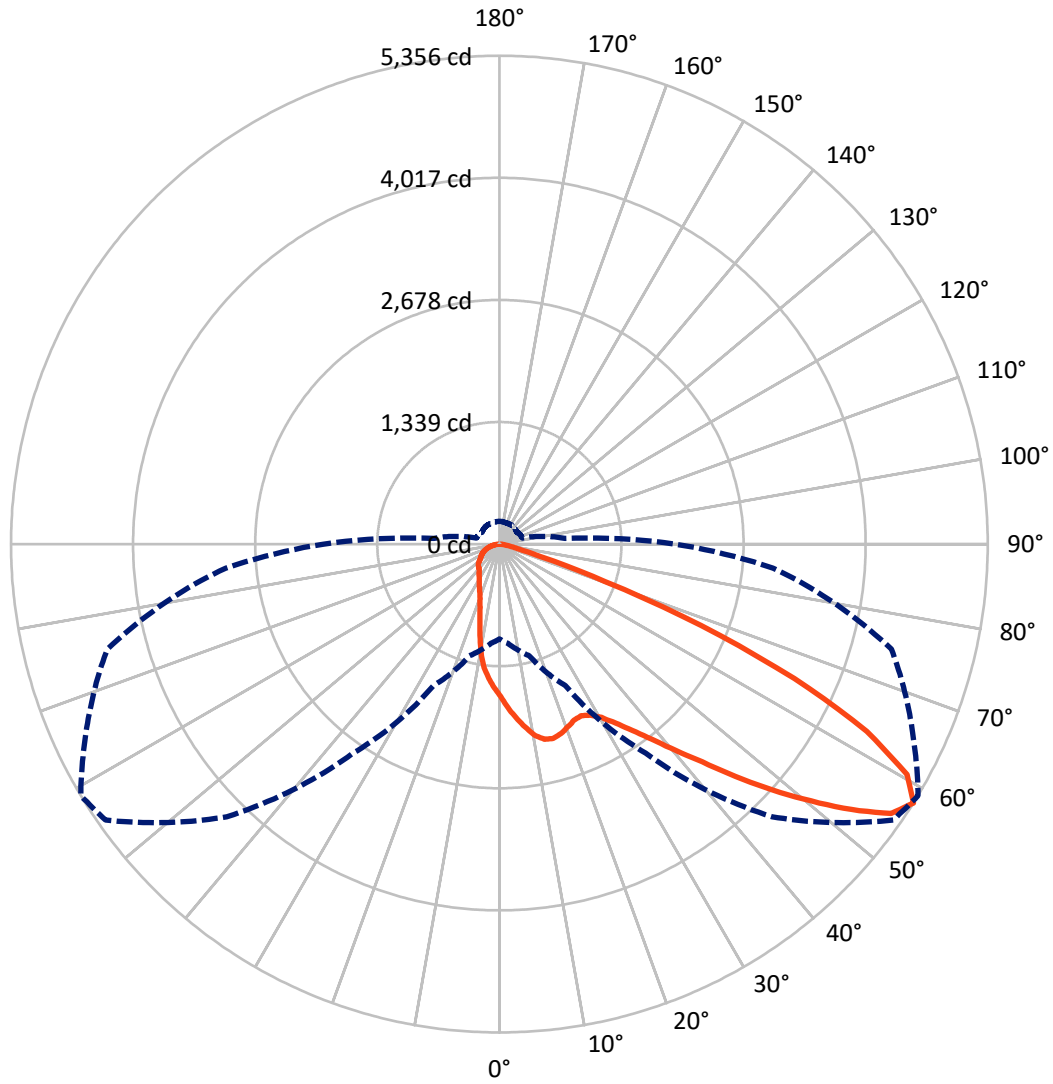
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1057.7   | 0.0    | 1057.7 |
|                    | % Fixture | 15.5     | 0.0    | 15.5   |
| <b>Street Side</b> | Lumens    | 5757.5   | 0.0    | 5757.5 |
|                    | % Fixture | 84.5     | 0.0    | 84.5   |
| <b>Total</b>       | Lumens    | 6815.2   | 0.0    | 6815.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.3  | 2.3       |
| 10°-20°   | 393.6  | 5.8       |
| 20°-30°   | 638.1  | 9.4       |
| 30°-40°   | 1026.4 | 15.1      |
| 40°-50°   | 1594.0 | 23.4      |
| 50°-60°   | 1716.9 | 25.2      |
| 60°-70°   | 996.4  | 14.6      |
| 70°-80°   | 260.1  | 3.8       |
| 80°-90°   | 34.3   | 0.5       |
| 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°    | 6815.2 | 100.0     |
| 0°-180°   | 6815.2 | 100.0     |

**Coefficient of Utilization**



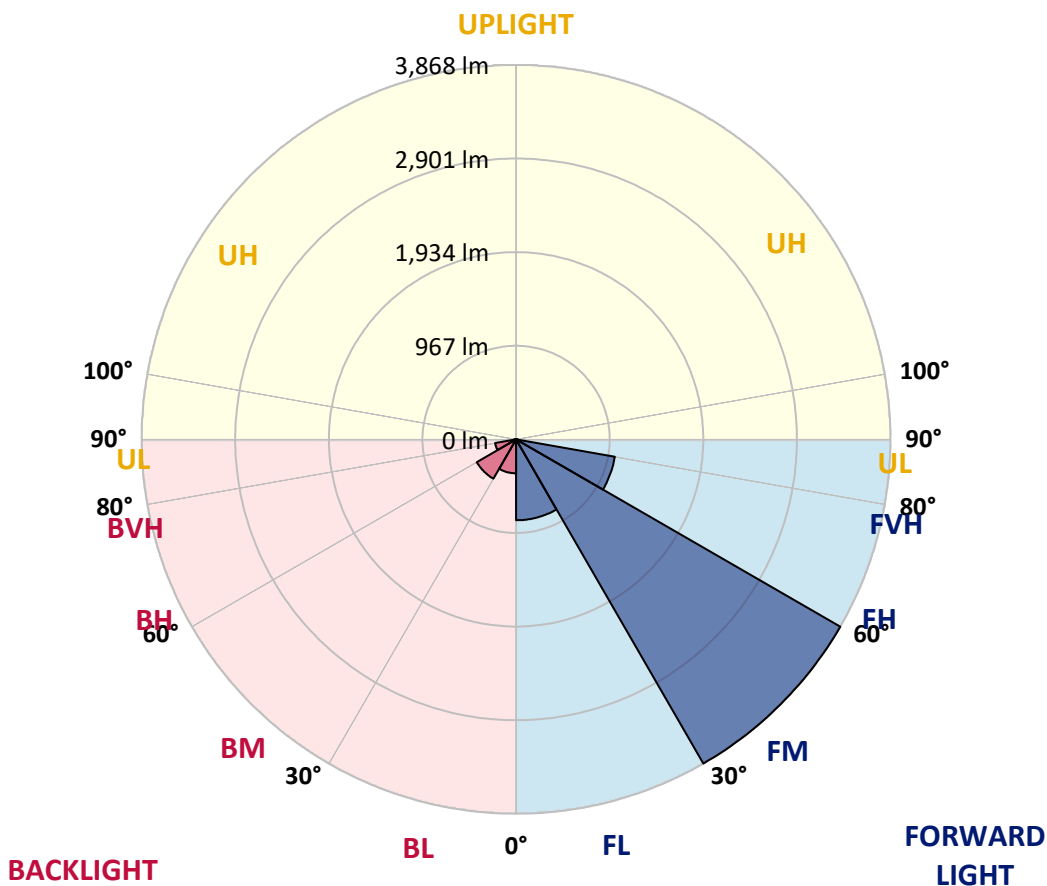
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 836.2  | 12.3      |                         |      |         |
| FM (30°-60°)   | 3868.4 | 56.8      |                         |      |         |
| FH (60°-80°)   | 1036.6 | 15.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.4   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 350.9  | 5.1       | B1/500                  |      |         |
| BM (30°-60°)   | 468.9  | 6.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 220.0  | 3.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 17.9   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 |
| 2.5°  | 1897.5 | 1881.7 | 1892.7 | 1873.1 | 1864.9 | 1843.3 | 1815.5 | 1796.8 | 1768.0 | 1730.6 | 1697.9 |
| 5°    | 2086.1 | 2075.1 | 2077.5 | 2056.3 | 2037.6 | 2001.6 | 1944.6 | 1912.9 | 1863.9 | 1788.6 | 1718.6 |
| 7.5°  | 2080.3 | 2093.3 | 2100.5 | 2118.7 | 2124.0 | 2120.6 | 2069.3 | 2025.2 | 1971.4 | 1858.2 | 1752.6 |
| 10°   | 1864.9 | 1889.4 | 1911.4 | 1973.8 | 2049.6 | 2145.6 | 2157.6 | 2131.2 | 2077.0 | 1947.0 | 1793.4 |
| 12.5° | 1630.3 | 1649.0 | 1668.7 | 1743.5 | 1859.6 | 2051.5 | 2181.6 | 2197.9 | 2176.3 | 2034.7 | 1839.5 |
| 15°   | 1515.1 | 1523.8 | 1542.5 | 1591.9 | 1684.5 | 1897.5 | 2139.8 | 2211.3 | 2250.2 | 2127.8 | 1891.3 |
| 17.5° | 1510.3 | 1514.2 | 1523.3 | 1549.7 | 1614.0 | 1778.5 | 2064.5 | 2184.4 | 2308.2 | 2226.2 | 1951.7 |
| 20°   | 1609.7 | 1599.6 | 1593.8 | 1593.4 | 1625.0 | 1738.7 | 1991.6 | 2141.3 | 2335.6 | 2326.9 | 2016.5 |
| 22.5° | 1747.4 | 1750.7 | 1738.2 | 1707.5 | 1703.7 | 1767.0 | 1955.1 | 2097.6 | 2343.7 | 2416.2 | 2076.5 |
| 25°   | 1942.6 | 1959.4 | 1922.5 | 1863.9 | 1835.2 | 1849.1 | 1977.7 | 2084.2 | 2342.8 | 2490.5 | 2113.9 |
| 27.5° | 2170.5 | 2183.5 | 2146.1 | 2069.3 | 2009.8 | 1976.2 | 2044.8 | 2124.0 | 2350.9 | 2554.8 | 2136.5 |
| 30°   | 2430.1 | 2434.4 | 2383.1 | 2302.5 | 2215.6 | 2143.7 | 2156.6 | 2206.0 | 2392.7 | 2639.3 | 2162.9 |
| 32.5° | 2747.2 | 2765.5 | 2687.7 | 2560.1 | 2438.7 | 2346.6 | 2306.8 | 2338.5 | 2482.9 | 2739.1 | 2203.6 |
| 35°   | 3149.8 | 3156.0 | 3057.2 | 2874.4 | 2702.6 | 2575.0 | 2491.5 | 2508.3 | 2620.1 | 2878.7 | 2265.0 |
| 37.5° | 3529.3 | 3535.5 | 3430.4 | 3260.6 | 3014.9 | 2840.3 | 2719.4 | 2711.7 | 2795.7 | 3075.9 | 2365.3 |
| 40°   | 3770.1 | 3787.9 | 3740.9 | 3634.3 | 3399.7 | 3164.2 | 3000.1 | 2973.7 | 3026.0 | 3317.2 | 2504.9 |
| 42.5° | 3899.7 | 3907.3 | 3906.4 | 3920.3 | 3780.7 | 3546.5 | 3316.7 | 3263.9 | 3299.0 | 3577.7 | 2646.0 |
| 45°   | 3900.6 | 3919.8 | 3971.1 | 4105.0 | 4111.2 | 3965.4 | 3716.9 | 3634.3 | 3602.2 | 3840.2 | 2793.3 |
| 47.5° | 3726.0 | 3746.6 | 3887.7 | 4151.1 | 4345.4 | 4378.5 | 4196.2 | 4030.6 | 3895.3 | 4066.1 | 2914.2 |
| 50°   | 3197.3 | 3249.1 | 3517.8 | 3983.6 | 4391.4 | 4709.5 | 4653.4 | 4428.9 | 4155.9 | 4240.8 | 2990.0 |
| 52.5° | 2738.1 | 2736.2 | 2901.7 | 3510.6 | 4199.0 | 4855.4 | 5095.8 | 4838.6 | 4413.5 | 4351.6 | 3009.2 |
| 55°   | 2005.0 | 2016.0 | 2185.4 | 2684.9 | 3685.7 | 4714.3 | 5339.0 | 5215.7 | 4709.0 | 4410.6 | 3001.5 |
| 57.5° | 1039.7 | 1094.4 | 1268.1 | 1713.3 | 2800.5 | 4228.8 | 5274.2 | 5356.3 | 5009.4 | 4452.4 | 3011.6 |
| 60°   | 525.4  | 514.8  | 577.2  | 818.0  | 1622.6 | 3302.8 | 4875.1 | 5136.5 | 5063.6 | 4485.0 | 3017.8 |
| 62.5° | 350.7  | 347.8  | 330.6  | 379.0  | 663.1  | 1956.1 | 4155.9 | 4522.4 | 4687.0 | 4408.2 | 2938.2 |
| 65°   | 303.7  | 297.9  | 266.3  | 264.4  | 321.9  | 811.3  | 3046.1 | 3555.2 | 3873.7 | 4067.1 | 2747.7 |
| 67.5° | 273.5  | 264.8  | 232.7  | 216.9  | 231.3  | 356.5  | 1716.7 | 2384.5 | 2860.5 | 3439.5 | 2330.3 |
| 70°   | 244.2  | 239.9  | 207.7  | 184.7  | 183.3  | 217.3  | 632.4  | 1230.6 | 1750.2 | 2346.6 | 1703.7 |
| 72.5° | 218.8  | 211.1  | 183.8  | 161.7  | 150.7  | 154.0  | 274.4  | 474.0  | 905.8  | 1463.8 | 1019.1 |
| 75°   | 189.5  | 183.8  | 159.8  | 137.7  | 124.3  | 112.7  | 167.4  | 219.3  | 413.1  | 695.7  | 481.2  |
| 77.5° | 146.3  | 142.5  | 126.2  | 109.4  | 101.7  | 84.0   | 101.7  | 138.2  | 191.0  | 293.1  | 250.4  |
| 80°   | 84.9   | 87.3   | 94.0   | 85.4   | 74.8   | 60.0   | 66.2   | 79.6   | 114.7  | 158.8  | 142.0  |
| 82.5° | 42.7   | 45.6   | 60.9   | 49.4   | 44.6   | 35.0   | 39.3   | 47.0   | 60.0   | 87.8   | 55.7   |
| 85°   | 3.4    | 3.4    | 11.0   | 12.5   | 15.4   | 12.5   | 15.8   | 19.2   | 27.3   | 35.0   | 18.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.4    | 4.3    | 8.2    | 5.3    |
| 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°    | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 | 1673.0 |
| 2.5°  | 1675.9 | 1651.4 | 1622.1 | 1598.1 | 1561.2 | 1541.5 | 1516.6 | 1485.9 | 1473.4 | 1467.6 | 1464.3 |
| 5°    | 1679.2 | 1636.1 | 1573.7 | 1516.1 | 1452.3 | 1401.9 | 1345.8 | 1287.3 | 1253.7 | 1245.5 | 1239.8 |
| 7.5°  | 1691.7 | 1631.3 | 1531.9 | 1436.9 | 1318.4 | 1208.6 | 1101.6 | 995.5  | 941.3  | 920.7  | 918.8  |
| 10°   | 1709.0 | 1629.3 | 1489.7 | 1331.9 | 1131.8 | 958.1  | 832.9  | 749.9  | 714.9  | 703.4  | 699.5  |
| 12.5° | 1730.6 | 1627.9 | 1434.1 | 1186.0 | 916.4  | 752.3  | 680.8  | 667.4  | 672.2  | 671.2  | 671.2  |
| 15°   | 1757.9 | 1629.8 | 1366.9 | 1021.0 | 741.3  | 653.0  | 654.4  | 670.3  | 685.1  | 687.5  | 687.5  |
| 17.5° | 1787.7 | 1627.9 | 1269.5 | 855.4  | 636.2  | 629.5  | 651.5  | 673.6  | 687.0  | 689.0  | 689.0  |
| 20°   | 1819.8 | 1618.8 | 1146.7 | 699.5  | 590.1  | 614.6  | 638.6  | 655.9  | 664.0  | 665.9  | 665.9  |
| 22.5° | 1839.0 | 1592.9 | 1013.3 | 592.0  | 560.9  | 591.1  | 606.9  | 624.7  | 625.6  | 610.3  | 609.8  |
| 25°   | 1836.1 | 1544.4 | 861.2  | 523.0  | 529.7  | 556.1  | 576.2  | 563.7  | 548.4  | 539.8  | 538.3  |
| 27.5° | 1817.9 | 1471.5 | 706.2  | 470.7  | 492.7  | 522.5  | 516.2  | 505.7  | 501.9  | 492.3  | 491.3  |
| 30°   | 1794.9 | 1381.8 | 567.1  | 429.9  | 454.4  | 481.7  | 472.1  | 471.1  | 467.3  | 456.8  | 456.8  |
| 32.5° | 1772.8 | 1289.2 | 462.0  | 399.7  | 429.9  | 431.8  | 445.2  | 446.2  | 444.3  | 426.0  | 424.1  |
| 35°   | 1766.6 | 1196.6 | 391.0  | 375.7  | 405.9  | 404.9  | 424.1  | 423.6  | 390.5  | 365.1  | 364.6  |
| 37.5° | 1785.3 | 1102.5 | 348.8  | 356.0  | 372.8  | 385.3  | 400.6  | 372.8  | 361.8  | 346.4  | 345.4  |
| 40°   | 1825.1 | 1015.7 | 327.2  | 344.5  | 351.7  | 369.9  | 345.9  | 347.8  | 345.0  | 333.4  | 332.0  |
| 42.5° | 1877.9 | 941.8  | 315.2  | 340.6  | 339.7  | 344.5  | 318.1  | 325.8  | 330.1  | 321.5  | 320.0  |
| 45°   | 1928.7 | 877.5  | 309.0  | 326.3  | 331.0  | 303.2  | 297.9  | 305.1  | 311.9  | 308.5  | 307.1  |
| 47.5° | 1966.1 | 821.9  | 305.6  | 306.6  | 320.0  | 289.3  | 280.7  | 284.0  | 292.2  | 293.6  | 293.1  |
| 50°   | 1977.7 | 774.4  | 301.8  | 290.3  | 287.4  | 275.4  | 268.7  | 267.7  | 277.3  | 284.0  | 285.0  |
| 52.5° | 1955.6 | 732.1  | 291.7  | 275.9  | 262.0  | 263.9  | 261.5  | 256.7  | 266.3  | 275.4  | 276.4  |
| 55°   | 1923.0 | 708.2  | 275.9  | 262.0  | 245.6  | 253.3  | 254.3  | 250.0  | 256.2  | 262.4  | 262.4  |
| 57.5° | 1925.4 | 722.1  | 260.5  | 249.0  | 231.3  | 241.3  | 246.6  | 244.7  | 244.7  | 249.5  | 250.0  |
| 60°   | 1941.2 | 742.2  | 250.4  | 232.7  | 216.9  | 227.4  | 239.4  | 237.5  | 233.2  | 239.4  | 239.4  |
| 62.5° | 1895.6 | 715.4  | 243.7  | 216.9  | 201.5  | 214.0  | 228.4  | 227.4  | 222.6  | 232.7  | 233.7  |
| 65°   | 1761.3 | 643.4  | 236.1  | 197.2  | 186.2  | 200.5  | 213.0  | 216.4  | 212.1  | 225.5  | 227.9  |
| 67.5° | 1476.3 | 541.2  | 221.2  | 178.5  | 170.8  | 184.2  | 196.2  | 201.0  | 197.7  | 213.5  | 215.4  |
| 70°   | 1100.6 | 438.0  | 197.7  | 157.8  | 152.1  | 164.1  | 175.1  | 177.0  | 177.5  | 196.2  | 198.1  |
| 72.5° | 701.9  | 340.6  | 166.5  | 134.8  | 130.5  | 139.6  | 147.8  | 155.4  | 158.8  | 176.6  | 176.1  |
| 75°   | 391.5  | 253.3  | 133.9  | 114.2  | 106.5  | 113.7  | 123.3  | 132.4  | 142.0  | 167.9  | 170.8  |
| 77.5° | 225.5  | 178.0  | 106.0  | 91.6   | 82.5   | 90.2   | 98.4   | 111.3  | 140.1  | 162.6  | 159.8  |
| 80°   | 127.1  | 115.6  | 80.1   | 67.2   | 61.4   | 67.2   | 73.4   | 97.9   | 110.3  | 119.9  | 121.4  |
| 82.5° | 59.5   | 64.8   | 54.7   | 41.3   | 41.3   | 45.1   | 50.9   | 75.8   | 83.5   | 68.1   | 59.5   |
| 85°   | 21.6   | 29.3   | 26.9   | 21.1   | 18.7   | 18.2   | 31.7   | 43.2   | 26.9   | 24.0   | 20.6   |
| 87.5° | 5.8    | 8.2    | 7.7    | 5.3    | 2.9    | 2.4    | 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    |

(END OF REPORT)