

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: P630638

Luminaire Tested: GWS-SA1E-722-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-722-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

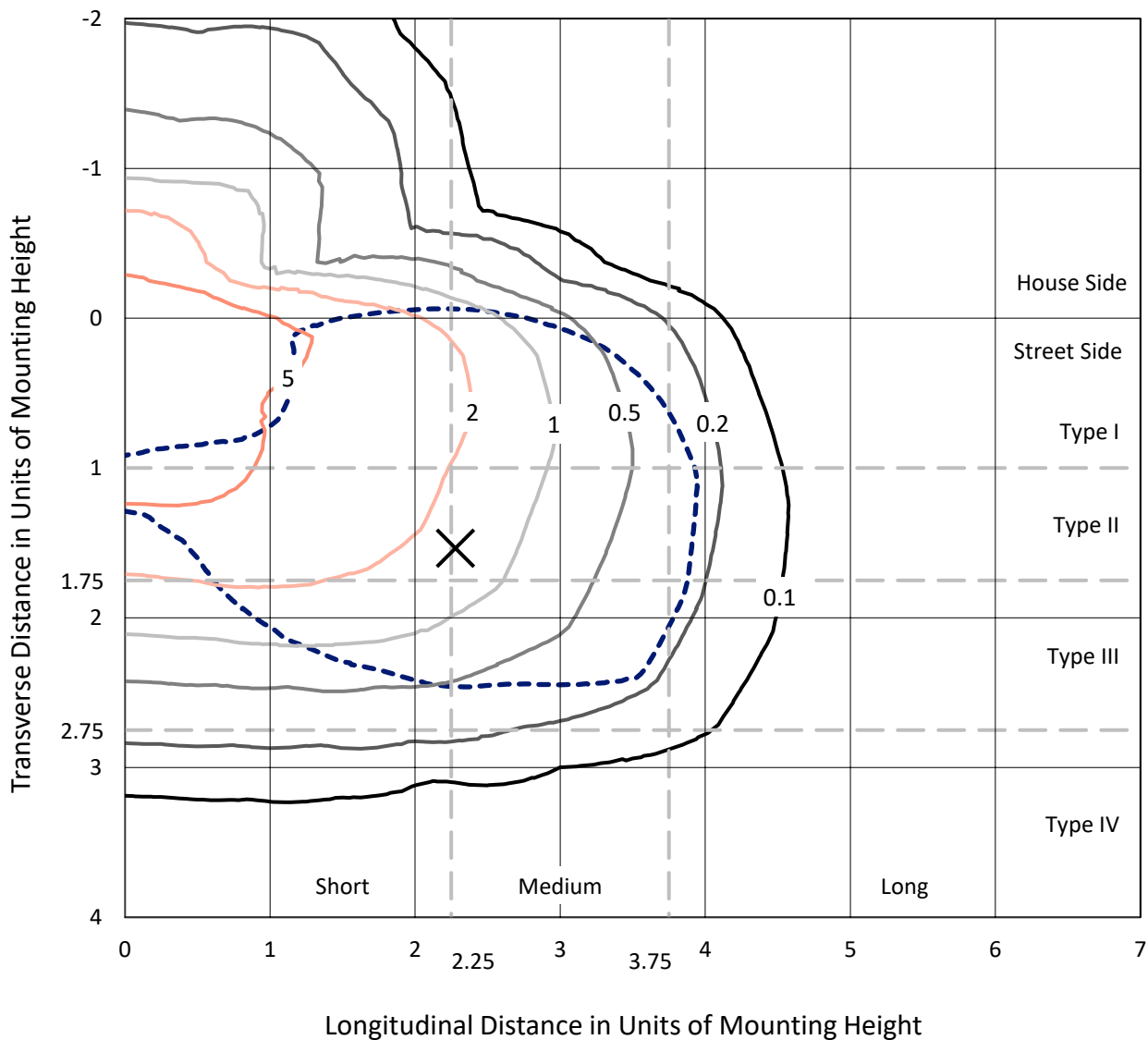
Lumens per Lamp: N/A  
Luminaire Lumens: 5674.2 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

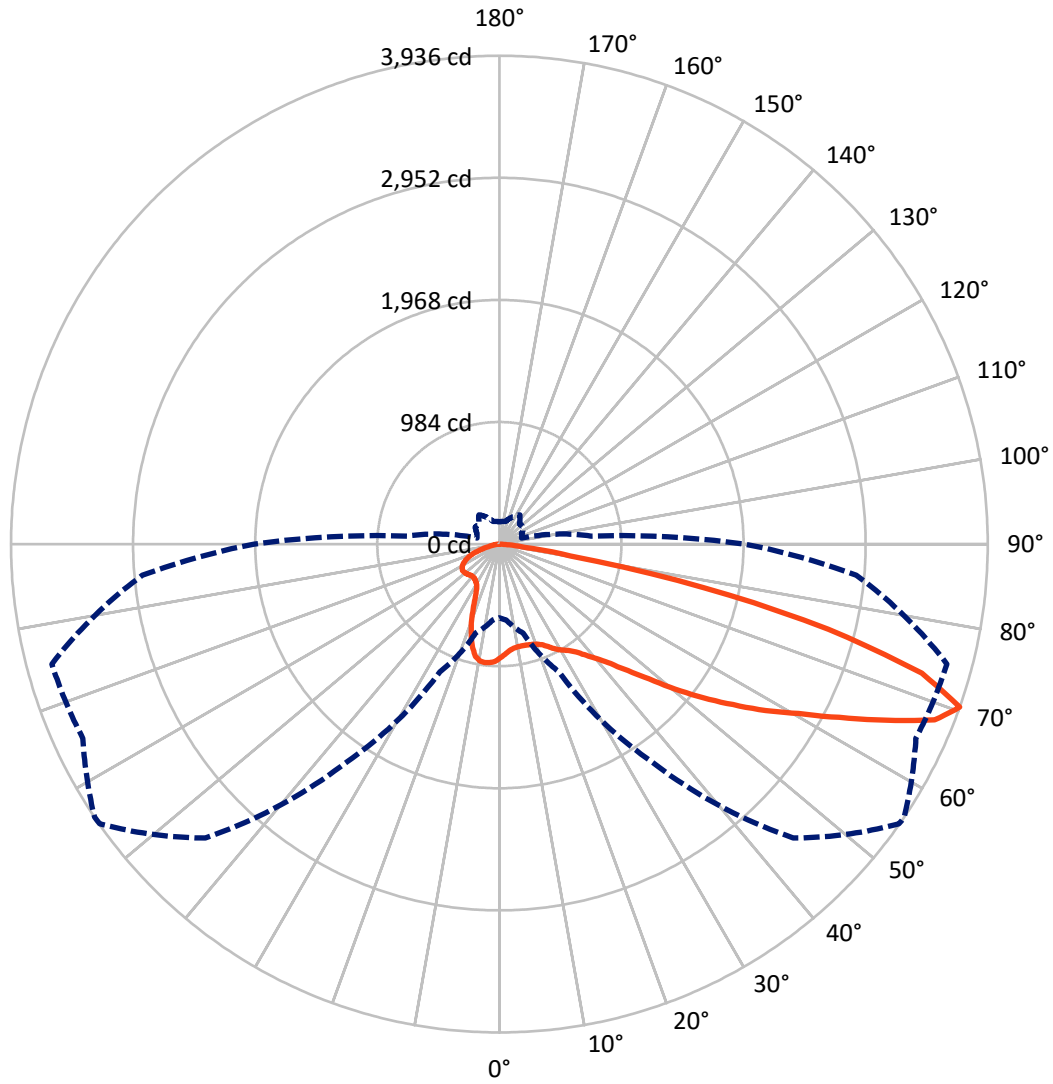
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1090.9   | 0.0    | 1090.9 |
|                    | % Fixture | 19.2     | 0.0    | 19.2   |
| <b>Street Side</b> | Lumens    | 4583.3   | 0.0    | 4583.3 |
|                    | % Fixture | 80.8     | 0.0    | 80.8   |
| <b>Total</b>       | Lumens    | 5674.2   | 0.0    | 5674.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.8   | 1.5       |
| 10°-20°   | 229.7  | 4.0       |
| 20°-30°   | 379.7  | 6.7       |
| 30°-40°   | 567.7  | 10.0      |
| 40°-50°   | 844.8  | 14.9      |
| 50°-60°   | 1201.0 | 21.2      |
| 60°-70°   | 1487.5 | 26.2      |
| 70°-80°   | 821.3  | 14.5      |
| 80°-90°   | 57.8   | 1.0       |
| 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°    | 5674.2 | 100.0     |
| 0°-180°   | 5674.2 | 100.0     |

**Coefficient of Utilization**



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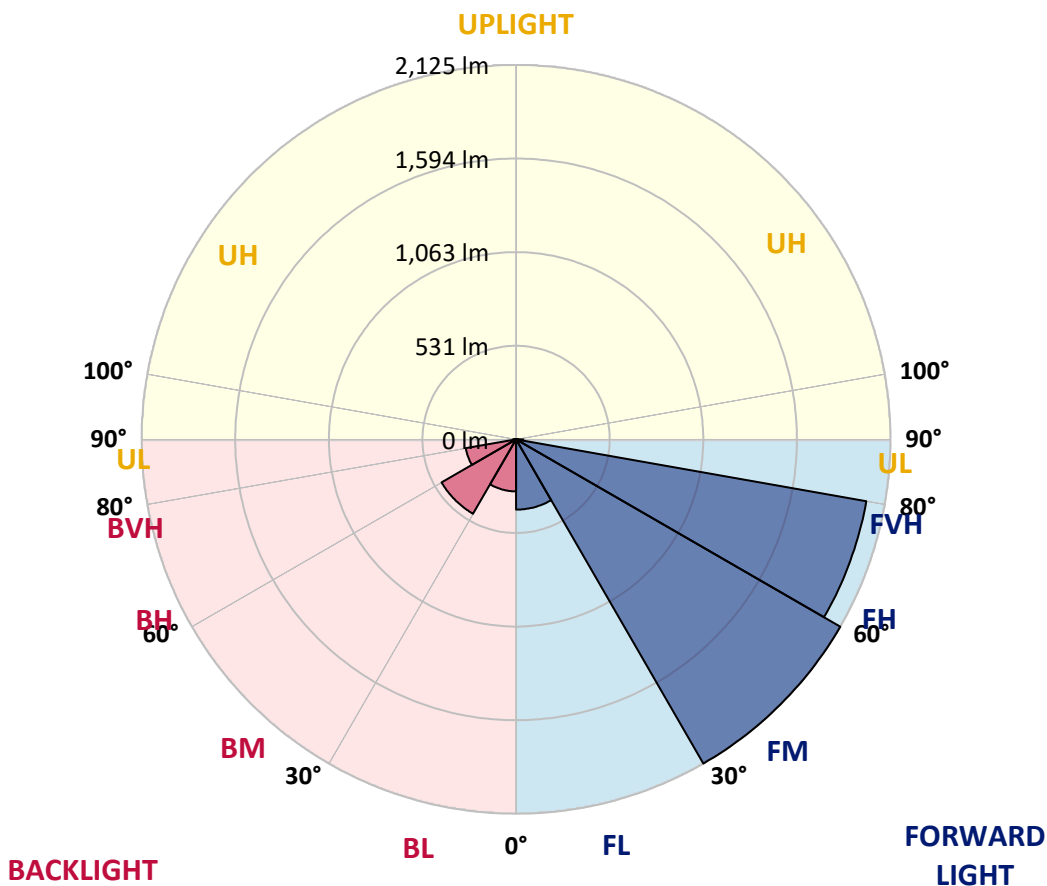
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 398.8  | 7.0       |                         |      |         |
| FM (30°-60°)   | 2125.5 | 37.5      |                         |      |         |
| FH (60°-80°)   | 2018.9 | 35.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 40.2   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 295.3  | 5.2       | B1/500                  |      |         |
| BM (30°-60°)   | 488.0  | 8.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 290.0  | 5.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 17.6   | 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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 915.9  | 915.9  | 915.9  | 915.9  | 915.9  | 915.9  | 915.9  | 915.9  | 915.9  | 915.9  | 915.9  |
| 2.5°  | 857.1  | 852.3  | 857.9  | 860.7  | 867.9  | 878.3  | 887.5  | 887.9  | 892.7  | 904.3  | 915.5  |
| 5°    | 818.3  | 815.9  | 817.5  | 825.9  | 833.5  | 846.7  | 860.7  | 861.9  | 875.5  | 898.3  | 920.7  |
| 7.5°  | 788.3  | 785.1  | 791.1  | 801.9  | 811.5  | 826.3  | 844.7  | 846.3  | 865.5  | 899.9  | 934.3  |
| 10°   | 745.0  | 742.6  | 753.8  | 768.3  | 789.1  | 813.5  | 837.9  | 839.9  | 865.1  | 910.3  | 958.3  |
| 12.5° | 726.2  | 726.2  | 731.0  | 744.6  | 767.5  | 799.9  | 836.7  | 839.9  | 871.5  | 926.3  | 989.1  |
| 15°   | 755.5  | 757.5  | 753.4  | 752.6  | 761.9  | 792.7  | 838.3  | 843.1  | 883.5  | 942.7  | 1019.5 |
| 17.5° | 814.3  | 816.3  | 805.9  | 789.5  | 780.3  | 799.5  | 844.3  | 849.5  | 896.3  | 960.7  | 1052.3 |
| 20°   | 896.7  | 899.1  | 876.3  | 851.1  | 819.5  | 819.1  | 855.9  | 860.7  | 912.7  | 980.3  | 1087.2 |
| 22.5° | 993.1  | 994.7  | 965.9  | 925.9  | 877.5  | 855.5  | 875.9  | 880.7  | 933.9  | 1007.5 | 1124.8 |
| 25°   | 1104.8 | 1109.6 | 1074.8 | 1016.7 | 951.1  | 905.5  | 909.1  | 914.7  | 971.9  | 1043.9 | 1169.2 |
| 27.5° | 1224.0 | 1230.0 | 1190.0 | 1126.0 | 1035.5 | 960.7  | 951.9  | 956.7  | 1012.3 | 1066.4 | 1192.8 |
| 30°   | 1346.0 | 1350.4 | 1310.4 | 1237.2 | 1126.4 | 1023.1 | 987.9  | 990.7  | 1029.9 | 1077.2 | 1216.8 |
| 32.5° | 1481.7 | 1478.1 | 1439.7 | 1355.2 | 1231.2 | 1098.0 | 1021.5 | 1020.7 | 1049.5 | 1098.8 | 1251.2 |
| 35°   | 1608.9 | 1614.1 | 1573.3 | 1480.1 | 1346.4 | 1190.4 | 1072.0 | 1068.8 | 1091.2 | 1134.0 | 1299.6 |
| 37.5° | 1763.0 | 1761.4 | 1712.6 | 1611.7 | 1462.1 | 1278.8 | 1142.8 | 1137.2 | 1145.2 | 1188.8 | 1367.3 |
| 40°   | 1873.0 | 1884.2 | 1852.6 | 1758.6 | 1597.3 | 1387.7 | 1225.6 | 1213.2 | 1215.2 | 1256.4 | 1457.7 |
| 42.5° | 1963.0 | 1973.5 | 1976.7 | 1916.6 | 1752.2 | 1522.1 | 1328.8 | 1316.4 | 1317.6 | 1376.1 | 1568.9 |
| 45°   | 2032.3 | 2046.3 | 2091.5 | 2073.9 | 1926.6 | 1677.4 | 1468.5 | 1455.7 | 1456.5 | 1521.3 | 1703.4 |
| 47.5° | 2060.7 | 2075.9 | 2167.5 | 2209.5 | 2111.9 | 1863.0 | 1642.1 | 1623.3 | 1626.1 | 1697.8 | 1857.0 |
| 50°   | 2051.5 | 2071.9 | 2195.9 | 2314.0 | 2267.2 | 2051.9 | 1849.8 | 1836.6 | 1825.8 | 1929.8 | 2023.9 |
| 52.5° | 1972.3 | 1994.7 | 2193.1 | 2380.4 | 2394.0 | 2230.3 | 2064.3 | 2056.7 | 2054.3 | 2176.3 | 2210.3 |
| 55°   | 1739.0 | 1776.6 | 2096.7 | 2398.0 | 2493.2 | 2398.4 | 2296.8 | 2284.0 | 2296.4 | 2440.4 | 2398.8 |
| 57.5° | 1609.7 | 1637.7 | 1907.8 | 2378.4 | 2574.5 | 2558.4 | 2528.8 | 2530.0 | 2544.0 | 2727.3 | 2627.3 |
| 60°   | 1536.1 | 1568.9 | 1803.0 | 2324.8 | 2652.5 | 2752.9 | 2771.7 | 2771.7 | 2796.9 | 3036.6 | 2859.3 |
| 62.5° | 1438.5 | 1471.7 | 1705.0 | 2221.5 | 2724.5 | 2981.8 | 3077.0 | 3075.8 | 3085.8 | 3368.3 | 3086.2 |
| 65°   | 1240.4 | 1271.2 | 1508.1 | 2058.7 | 2759.7 | 3233.9 | 3423.9 | 3420.3 | 3400.3 | 3663.6 | 3236.3 |
| 67.5° | 900.7  | 929.9  | 1155.2 | 1749.0 | 2632.9 | 3437.1 | 3781.3 | 3782.9 | 3663.2 | 3849.7 | 3244.3 |
| 70°   | 593.8  | 613.8  | 742.6  | 1136.0 | 2141.1 | 3349.5 | 3930.9 | 3935.7 | 3703.6 | 3733.6 | 2887.4 |
| 72.5° | 370.5  | 384.5  | 463.8  | 677.4  | 1265.2 | 2651.3 | 3546.8 | 3560.0 | 3331.9 | 3281.1 | 2372.4 |
| 75°   | 246.1  | 255.7  | 308.5  | 394.9  | 585.4  | 1434.9 | 2696.1 | 2738.5 | 2670.5 | 2572.1 | 1652.9 |
| 77.5° | 148.0  | 156.1  | 196.5  | 250.9  | 259.3  | 560.6  | 1573.7 | 1683.4 | 1693.0 | 1342.8 | 692.2  |
| 80°   | 67.6   | 76.8   | 108.4  | 143.2  | 138.0  | 195.3  | 555.0  | 580.6  | 685.0  | 426.5  | 218.5  |
| 82.5° | 40.0   | 44.0   | 72.0   | 71.2   | 58.8   | 94.8   | 199.7  | 204.9  | 174.1  | 156.1  | 93.2   |
| 85°   | 16.0   | 18.8   | 30.4   | 26.8   | 21.6   | 30.8   | 75.2   | 78.8   | 75.6   | 68.0   | 34.4   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.8    | 6.8    | 7.2    | 10.4   | 18.8   | 10.4   |
| 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°    | 915.9  | 915.9  | 915.9  | 915.9 | 915.9 | 915.9 | 915.9 | 915.9 | 915.9 | 915.9 | 915.9 |
| 2.5°  | 922.7  | 920.3  | 932.3  | 941.5 | 945.5 | 949.5 | 945.9 | 944.7 | 944.7 | 936.7 | 932.7 |
| 5°    | 932.7  | 933.9  | 950.3  | 957.9 | 957.9 | 954.7 | 945.1 | 938.3 | 935.9 | 925.5 | 922.7 |
| 7.5°  | 951.5  | 956.7  | 971.9  | 971.5 | 960.3 | 942.7 | 918.7 | 900.3 | 883.5 | 876.3 | 871.9 |
| 10°   | 982.3  | 989.1  | 999.5  | 982.7 | 951.5 | 905.1 | 854.3 | 814.3 | 790.3 | 771.1 | 771.1 |
| 12.5° | 1017.5 | 1023.9 | 1021.9 | 983.1 | 918.7 | 831.9 | 758.7 | 712.6 | 679.0 | 661.4 | 661.4 |
| 15°   | 1052.7 | 1058.0 | 1036.3 | 964.7 | 850.3 | 734.6 | 654.6 | 599.4 | 570.2 | 553.8 | 553.8 |
| 17.5° | 1088.4 | 1088.0 | 1042.3 | 922.3 | 761.1 | 627.0 | 548.6 | 505.8 | 495.8 | 493.0 | 492.6 |
| 20°   | 1122.8 | 1113.6 | 1034.7 | 851.5 | 657.4 | 518.6 | 469.0 | 471.8 | 486.6 | 493.0 | 493.8 |
| 22.5° | 1161.6 | 1138.8 | 1012.3 | 761.1 | 539.8 | 443.3 | 446.5 | 469.8 | 491.4 | 501.0 | 502.2 |
| 25°   | 1201.2 | 1160.4 | 974.7  | 655.0 | 441.3 | 415.7 | 440.5 | 466.6 | 491.0 | 503.4 | 504.6 |
| 27.5° | 1217.2 | 1160.4 | 910.7  | 532.2 | 388.9 | 404.1 | 431.3 | 456.6 | 482.2 | 496.6 | 499.4 |
| 30°   | 1230.4 | 1150.4 | 821.1  | 421.3 | 367.3 | 392.9 | 416.5 | 439.7 | 465.0 | 482.6 | 485.8 |
| 32.5° | 1248.8 | 1141.6 | 712.6  | 354.1 | 357.3 | 382.1 | 398.5 | 418.1 | 440.9 | 452.5 | 451.3 |
| 35°   | 1270.4 | 1128.0 | 581.8  | 322.1 | 348.9 | 372.9 | 384.5 | 396.1 | 385.7 | 385.3 | 386.5 |
| 37.5° | 1301.2 | 1116.0 | 467.8  | 307.7 | 343.3 | 366.5 | 376.1 | 351.3 | 336.9 | 330.9 | 328.5 |
| 40°   | 1345.6 | 1111.2 | 368.9  | 299.3 | 342.5 | 366.1 | 359.3 | 320.9 | 301.3 | 280.5 | 280.1 |
| 42.5° | 1401.7 | 1107.6 | 304.9  | 295.3 | 345.3 | 375.3 | 336.1 | 300.9 | 260.5 | 251.3 | 250.5 |
| 45°   | 1473.7 | 1102.0 | 272.9  | 294.5 | 352.1 | 382.5 | 333.7 | 273.3 | 245.7 | 241.7 | 241.7 |
| 47.5° | 1560.5 | 1093.2 | 258.5  | 294.5 | 359.7 | 379.3 | 326.5 | 267.3 | 238.9 | 243.3 | 246.1 |
| 50°   | 1660.1 | 1082.0 | 250.9  | 293.7 | 367.3 | 379.3 | 311.3 | 266.1 | 237.3 | 260.1 | 269.3 |
| 52.5° | 1766.6 | 1069.2 | 245.7  | 290.5 | 372.5 | 379.7 | 312.1 | 270.1 | 238.9 | 264.1 | 271.7 |
| 55°   | 1884.2 | 1067.2 | 238.5  | 283.7 | 374.1 | 369.3 | 314.1 | 278.9 | 241.3 | 239.3 | 239.7 |
| 57.5° | 2032.7 | 1091.2 | 233.3  | 273.7 | 367.7 | 348.1 | 318.1 | 285.3 | 238.5 | 238.9 | 241.7 |
| 60°   | 2187.9 | 1136.4 | 237.7  | 264.1 | 354.5 | 328.1 | 320.9 | 282.1 | 224.9 | 218.5 | 219.3 |
| 62.5° | 2320.0 | 1170.8 | 241.3  | 259.7 | 335.3 | 310.5 | 318.1 | 274.9 | 217.3 | 215.7 | 219.3 |
| 65°   | 2375.2 | 1142.4 | 232.5  | 250.5 | 307.3 | 288.9 | 312.1 | 265.7 | 210.9 | 204.9 | 205.3 |
| 67.5° | 2314.0 | 1009.1 | 215.3  | 230.1 | 275.7 | 261.3 | 302.5 | 253.7 | 202.1 | 194.9 | 193.3 |
| 70°   | 1976.7 | 741.4  | 185.7  | 197.7 | 237.3 | 228.9 | 287.7 | 238.1 | 188.1 | 182.9 | 179.3 |
| 72.5° | 1592.9 | 525.0  | 154.1  | 157.3 | 186.1 | 192.9 | 262.1 | 218.5 | 172.1 | 157.3 | 152.1 |
| 75°   | 1108.8 | 329.7  | 128.4  | 125.2 | 134.4 | 147.2 | 204.5 | 181.3 | 148.4 | 132.8 | 128.0 |
| 77.5° | 477.0  | 169.3  | 100.4  | 98.8  | 89.6  | 102.0 | 156.9 | 151.3 | 124.4 | 106.4 | 103.6 |
| 80°   | 159.7  | 98.0   | 72.4   | 69.6  | 59.6  | 71.6  | 110.4 | 120.8 | 97.6  | 78.8  | 74.0  |
| 82.5° | 80.0   | 56.8   | 46.0   | 41.6  | 40.0  | 45.2  | 65.2  | 75.2  | 67.6  | 54.4  | 46.0  |
| 85°   | 39.2   | 32.4   | 25.2   | 24.8  | 20.8  | 19.6  | 27.2  | 32.0  | 30.4  | 22.4  | 21.2  |
| 87.5° | 14.4   | 12.8   | 8.0    | 6.4   | 4.0   | 2.8   | 1.6   | 1.6   | 1.2   | 1.2   | 1.2   |
| 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)