

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: P630080

Luminaire Tested: GWS-SA1C-830-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-830-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

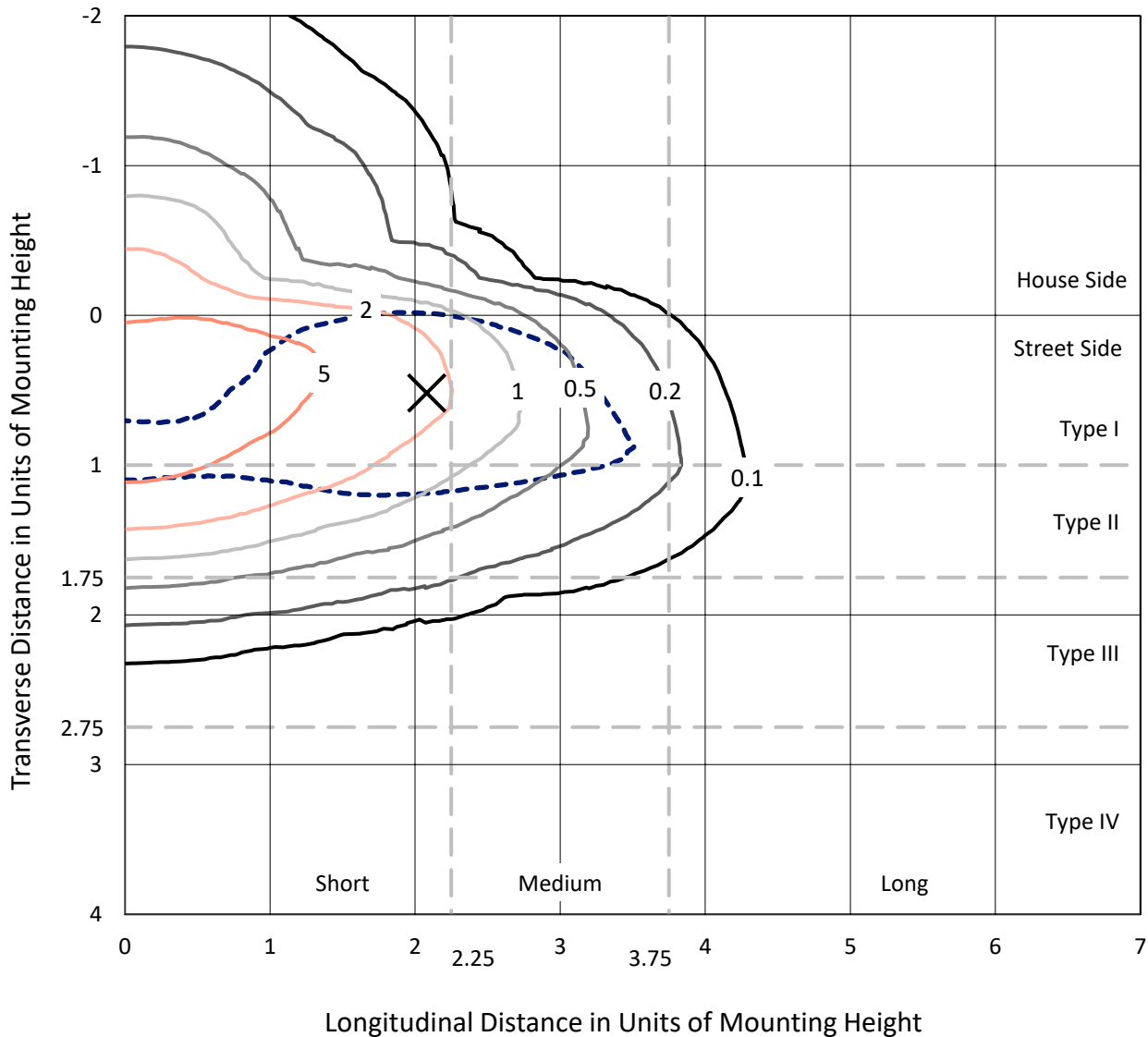
Lumens per Lamp: N/A  
Luminaire Lumens: 3893.4 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P630080  
 CATALOG NUMBER: GWS-SA1C-830-U-T2R-W

### Iso-Footcandle Lines of Horizontal Illumination

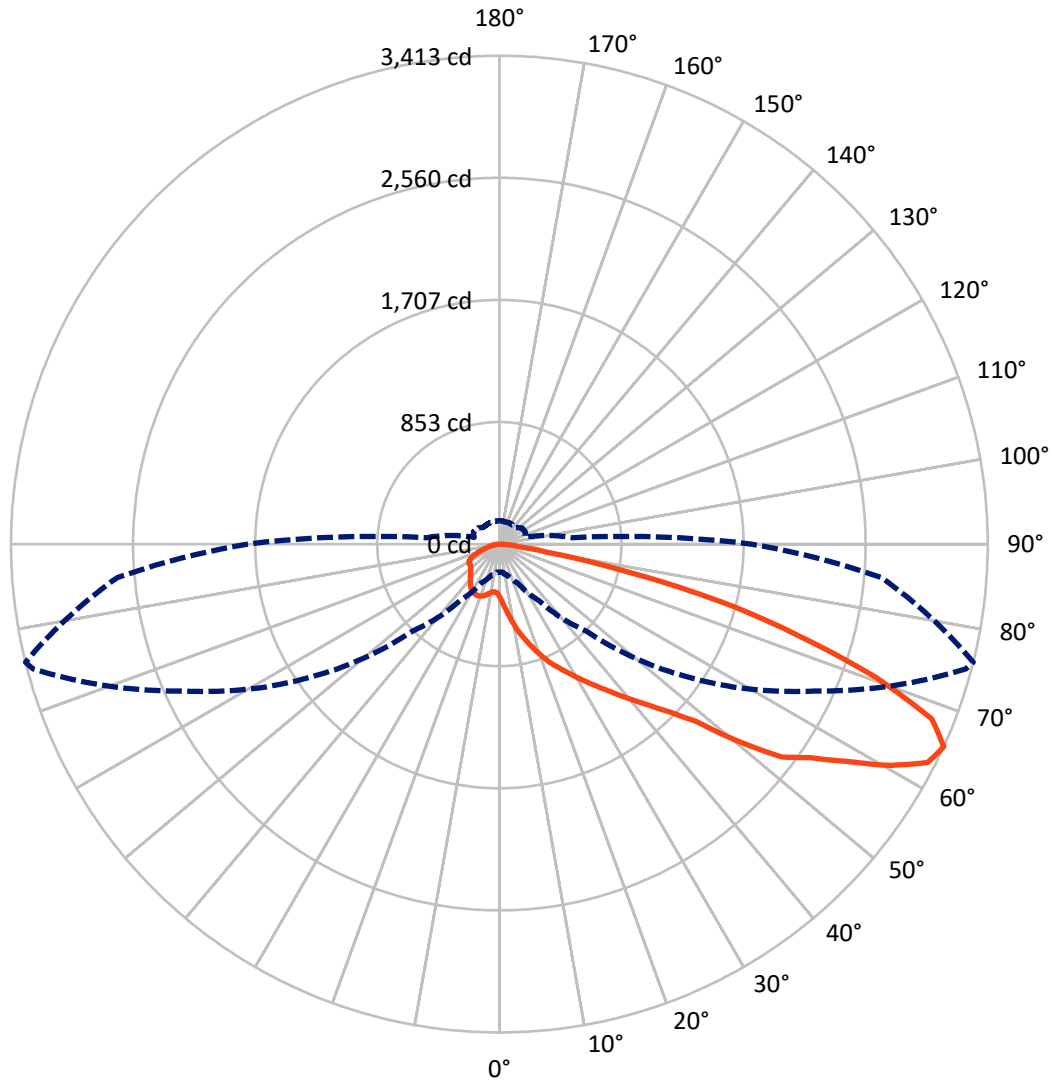
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P630080  
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P630080

CATALOG NUMBER: GWS-SA1C-830-U-T2R-W

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 650.8    | 0.0    | 650.8  |
|                    | % Fixture | 16.7     | 0.0    | 16.7   |
| <b>Street Side</b> | Lumens    | 3242.6   | 0.0    | 3242.6 |
|                    | % Fixture | 83.3     | 0.0    | 83.3   |
| <b>Total</b>       | Lumens    | 3893.4   | 0.0    | 3893.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.8   | 1.1       |
| 10°-20°   | 166.8  | 4.3       |
| 20°-30°   | 325.1  | 8.4       |
| 30°-40°   | 543.8  | 14.0      |
| 40°-50°   | 778.6  | 20.0      |
| 50°-60°   | 921.8  | 23.7      |
| 60°-70°   | 766.4  | 19.7      |
| 70°-80°   | 313.6  | 8.1       |
| 80°-90°   | 33.4   | 0.9       |
| 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°    | 3893.4 | 100.0     |
| 0°-180°   | 3893.4 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P630080

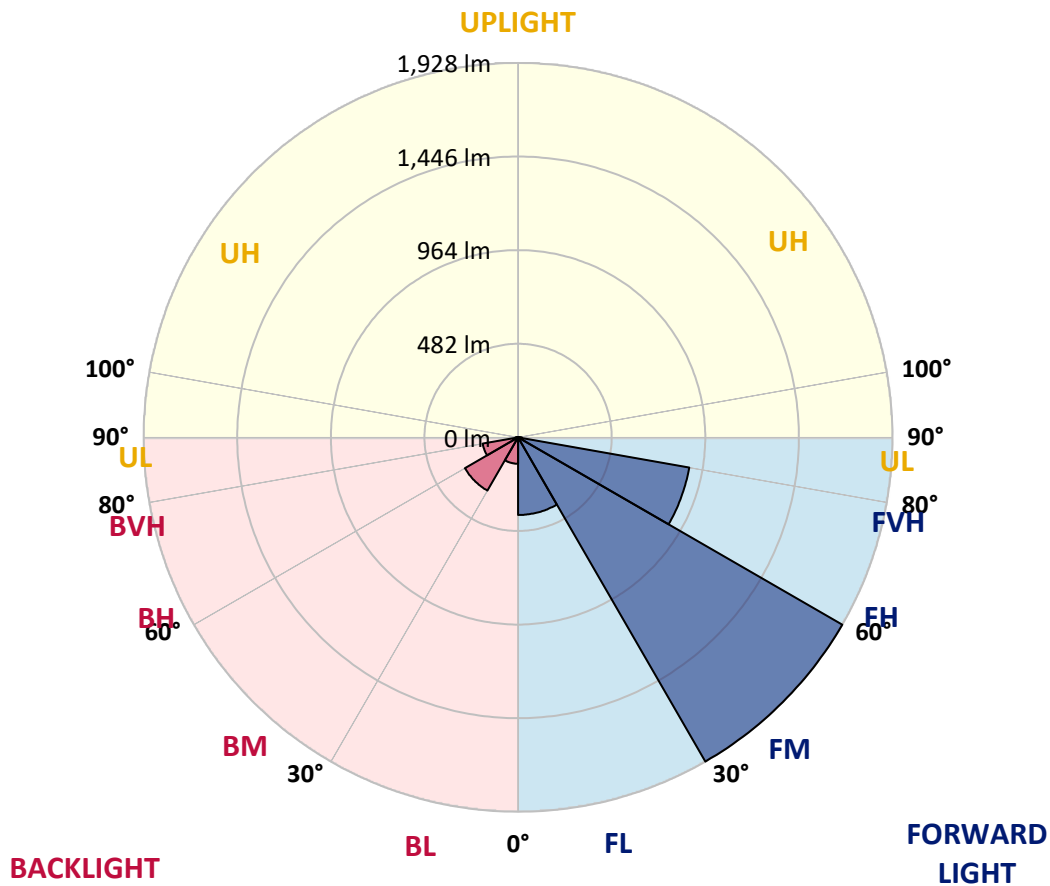
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 399.6  | 10.3      |                         |      |         |
| FM (30°-60°)   | 1927.9 | 49.5      |                         |      |         |
| FH (60°-80°)   | 895.2  | 23.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 19.9   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 136.1  | 3.5       | B1/500                  |      |         |
| BM (30°-60°)   | 316.3  | 8.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 184.9  | 4.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 13.5   | 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





REPORT NUMBER: P630080  
 CATALOG NUMBER: GWS-SA1C-830-U-T2R-W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 368.7  | 368.7  | 368.7  | 368.7  | 368.7  | 368.7  | 368.7  | 368.7  | 368.7  | 368.7  | 368.7  |
| 2.5°  | 516.8  | 518.7  | 512.4  | 510.2  | 495.4  | 475.4  | 458.7  | 433.6  | 410.3  | 406.7  | 385.9  |
| 5°    | 656.4  | 648.2  | 641.0  | 636.4  | 615.9  | 593.1  | 557.8  | 510.5  | 460.9  | 454.9  | 410.0  |
| 7.5°  | 739.3  | 737.9  | 729.2  | 726.4  | 710.6  | 687.8  | 651.4  | 592.6  | 520.6  | 510.7  | 442.6  |
| 10°   | 805.8  | 805.0  | 800.6  | 803.1  | 788.6  | 766.4  | 731.1  | 670.3  | 586.0  | 576.2  | 479.0  |
| 12.5° | 863.8  | 865.2  | 864.4  | 873.4  | 866.0  | 848.8  | 812.1  | 745.3  | 651.4  | 640.8  | 523.3  |
| 15°   | 906.3  | 907.4  | 911.5  | 931.2  | 935.3  | 931.7  | 894.5  | 818.9  | 716.0  | 700.7  | 569.0  |
| 17.5° | 918.3  | 920.5  | 930.3  | 962.1  | 984.3  | 999.1  | 971.4  | 893.9  | 779.5  | 762.8  | 615.6  |
| 20°   | 934.5  | 936.9  | 946.8  | 979.9  | 1012.5 | 1046.1 | 1041.2 | 970.0  | 843.6  | 829.9  | 662.7  |
| 22.5° | 1009.2 | 1007.3 | 1002.9 | 1018.8 | 1042.0 | 1083.9 | 1096.2 | 1043.1 | 909.8  | 896.7  | 714.7  |
| 25°   | 1153.2 | 1149.6 | 1121.7 | 1107.2 | 1099.5 | 1125.0 | 1146.9 | 1109.6 | 974.4  | 954.7  | 763.1  |
| 27.5° | 1311.9 | 1310.0 | 1274.4 | 1239.9 | 1192.8 | 1181.9 | 1194.8 | 1167.7 | 1037.1 | 1017.1 | 805.3  |
| 30°   | 1462.2 | 1456.4 | 1419.2 | 1376.0 | 1313.0 | 1265.9 | 1247.0 | 1224.6 | 1105.8 | 1085.0 | 854.5  |
| 32.5° | 1596.6 | 1589.2 | 1545.4 | 1497.5 | 1431.5 | 1376.0 | 1319.6 | 1285.1 | 1183.5 | 1159.4 | 904.9  |
| 35°   | 1706.9 | 1699.5 | 1654.6 | 1603.7 | 1531.1 | 1490.1 | 1412.9 | 1350.8 | 1262.6 | 1238.3 | 964.3  |
| 37.5° | 1792.3 | 1785.4 | 1738.6 | 1688.5 | 1625.3 | 1592.7 | 1525.7 | 1424.7 | 1353.8 | 1328.3 | 1027.2 |
| 40°   | 1840.2 | 1835.2 | 1797.7 | 1758.1 | 1705.0 | 1676.8 | 1646.7 | 1518.0 | 1455.9 | 1430.4 | 1101.4 |
| 42.5° | 1854.7 | 1851.4 | 1825.1 | 1804.6 | 1768.7 | 1747.4 | 1764.6 | 1627.8 | 1564.8 | 1542.6 | 1184.9 |
| 45°   | 1818.3 | 1818.3 | 1810.6 | 1821.0 | 1822.7 | 1822.4 | 1882.9 | 1751.8 | 1698.7 | 1674.3 | 1302.6 |
| 47.5° | 1725.2 | 1731.2 | 1742.5 | 1793.6 | 1847.6 | 1892.7 | 2021.1 | 1917.1 | 1870.8 | 1850.8 | 1469.3 |
| 50°   | 1555.0 | 1571.4 | 1609.7 | 1709.6 | 1824.3 | 1939.3 | 2151.9 | 2161.5 | 2205.6 | 2170.3 | 1714.5 |
| 52.5° | 1305.6 | 1303.1 | 1400.9 | 1543.2 | 1718.1 | 1941.2 | 2223.9 | 2377.2 | 2495.7 | 2471.3 | 1896.8 |
| 55°   | 1037.6 | 1033.5 | 1124.7 | 1320.9 | 1555.2 | 1867.8 | 2267.2 | 2476.0 | 2656.7 | 2634.8 | 2060.8 |
| 57.5° | 794.6  | 789.4  | 870.4  | 1047.5 | 1325.3 | 1712.1 | 2258.9 | 2593.7 | 2878.1 | 2866.9 | 2283.6 |
| 60°   | 546.9  | 540.6  | 616.4  | 771.3  | 1053.2 | 1473.9 | 2168.1 | 2654.2 | 3137.3 | 3141.1 | 2522.0 |
| 62.5° | 328.5  | 324.9  | 379.9  | 500.1  | 757.6  | 1178.9 | 1955.4 | 2617.5 | 3343.7 | 3360.9 | 2675.3 |
| 65°   | 198.2  | 195.7  | 228.0  | 298.3  | 480.6  | 860.3  | 1627.5 | 2430.0 | 3373.5 | 3413.2 | 2678.8 |
| 67.5° | 144.2  | 144.5  | 153.8  | 181.7  | 280.3  | 555.6  | 1221.3 | 2093.9 | 3218.0 | 3259.1 | 2509.9 |
| 70°   | 125.4  | 125.9  | 130.8  | 137.1  | 169.4  | 318.1  | 794.0  | 1652.9 | 2758.5 | 2790.2 | 2105.1 |
| 72.5° | 111.4  | 111.4  | 114.7  | 118.0  | 132.5  | 193.8  | 425.3  | 1155.3 | 2177.1 | 2185.6 | 1606.7 |
| 75°   | 98.0   | 97.2   | 98.8   | 100.5  | 115.0  | 135.5  | 206.9  | 805.0  | 1608.1 | 1588.4 | 1038.5 |
| 77.5° | 78.0   | 77.2   | 77.5   | 79.1   | 92.2   | 96.9   | 104.8  | 502.8  | 906.3  | 855.4  | 458.7  |
| 80°   | 55.6   | 55.0   | 58.0   | 62.1   | 68.2   | 59.4   | 65.7   | 243.3  | 359.4  | 334.5  | 177.9  |
| 82.5° | 33.1   | 34.2   | 38.9   | 42.2   | 47.1   | 37.2   | 42.4   | 81.3   | 127.3  | 124.0  | 72.3   |
| 85°   | 4.7    | 4.9    | 14.0   | 16.1   | 20.3   | 14.5   | 22.4   | 36.7   | 50.9   | 54.5   | 25.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 6.6    | 14.5   | 14.8   | 6.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P630080  
 CATALOG NUMBER: GWS-SA1C-830-U-T2R-W

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 368.7  | 368.7 | 368.7 | 368.7 | 368.7 | 368.7 | 368.7 | 368.7 | 368.7 | 368.7 | 368.7 |
| 2.5°  | 375.3  | 362.4 | 344.1 | 328.7 | 315.9 | 305.5 | 296.7 | 290.1 | 288.2 | 285.5 | 285.5 |
| 5°    | 388.9  | 365.7 | 332.8 | 309.6 | 296.2 | 288.2 | 282.7 | 280.0 | 278.6 | 277.0 | 276.2 |
| 7.5°  | 407.8  | 375.3 | 330.9 | 307.4 | 297.0 | 292.1 | 288.5 | 286.9 | 285.8 | 284.1 | 284.1 |
| 10°   | 433.8  | 389.5 | 336.9 | 315.0 | 306.8 | 301.9 | 297.8 | 295.1 | 292.6 | 290.1 | 289.6 |
| 12.5° | 462.0  | 408.1 | 347.9 | 325.4 | 316.7 | 310.7 | 304.9 | 300.8 | 297.8 | 294.8 | 294.0 |
| 15°   | 493.2  | 427.3 | 359.7 | 335.6 | 324.6 | 316.4 | 309.6 | 303.3 | 299.2 | 294.8 | 294.2 |
| 17.5° | 523.9  | 446.7 | 369.5 | 342.4 | 328.5 | 318.3 | 308.5 | 300.3 | 295.1 | 290.1 | 288.8 |
| 20°   | 560.6  | 466.1 | 376.4 | 344.3 | 327.6 | 314.2 | 302.5 | 292.1 | 286.3 | 280.6 | 279.7 |
| 22.5° | 594.2  | 484.2 | 379.6 | 341.6 | 321.3 | 305.5 | 291.8 | 280.6 | 274.3 | 268.5 | 267.4 |
| 25°   | 626.8  | 500.1 | 378.3 | 335.0 | 311.8 | 293.4 | 279.2 | 268.0 | 261.9 | 255.9 | 254.3 |
| 27.5° | 658.3  | 510.7 | 372.8 | 324.9 | 299.7 | 280.0 | 266.3 | 256.2 | 251.0 | 245.8 | 243.6 |
| 30°   | 689.2  | 520.6 | 364.3 | 311.8 | 284.4 | 266.0 | 254.8 | 247.7 | 242.5 | 237.0 | 235.4 |
| 32.5° | 720.4  | 527.7 | 351.4 | 296.4 | 268.8 | 253.7 | 246.9 | 241.7 | 236.2 | 230.7 | 229.1 |
| 35°   | 751.9  | 530.7 | 335.8 | 278.9 | 255.6 | 245.8 | 243.3 | 237.3 | 229.9 | 223.3 | 221.2 |
| 37.5° | 789.4  | 533.5 | 316.4 | 261.7 | 244.2 | 242.0 | 241.4 | 232.4 | 223.6 | 214.6 | 212.1 |
| 40°   | 834.5  | 537.0 | 296.4 | 246.1 | 234.8 | 240.6 | 238.4 | 226.1 | 208.6 | 199.8 | 197.1 |
| 42.5° | 889.8  | 543.6 | 275.6 | 231.8 | 228.0 | 235.4 | 232.9 | 210.8 | 199.0 | 194.1 | 192.7 |
| 45°   | 971.1  | 567.7 | 254.8 | 220.6 | 222.8 | 228.0 | 224.2 | 201.7 | 197.1 | 193.8 | 192.1 |
| 47.5° | 1115.9 | 604.6 | 236.8 | 212.1 | 218.7 | 221.4 | 206.7 | 199.3 | 195.7 | 191.3 | 189.4 |
| 50°   | 1266.5 | 620.8 | 222.3 | 206.9 | 214.0 | 215.4 | 197.1 | 196.0 | 193.5 | 188.9 | 186.9 |
| 52.5° | 1368.3 | 618.6 | 213.5 | 205.0 | 210.2 | 205.0 | 192.7 | 192.4 | 190.8 | 185.3 | 183.1 |
| 55°   | 1483.2 | 622.4 | 209.7 | 205.6 | 208.6 | 187.5 | 187.2 | 188.0 | 187.2 | 181.2 | 180.1 |
| 57.5° | 1638.4 | 634.2 | 207.7 | 207.5 | 207.5 | 179.0 | 182.0 | 183.1 | 181.5 | 178.7 | 177.9 |
| 60°   | 1787.6 | 635.0 | 204.2 | 209.7 | 206.7 | 173.8 | 176.0 | 177.1 | 175.2 | 174.6 | 174.4 |
| 62.5° | 1843.7 | 595.6 | 196.3 | 208.0 | 203.4 | 168.1 | 169.7 | 170.2 | 168.3 | 169.7 | 169.4 |
| 65°   | 1760.2 | 511.8 | 183.1 | 200.1 | 193.2 | 162.9 | 161.8 | 163.1 | 159.8 | 163.4 | 163.7 |
| 67.5° | 1562.9 | 406.7 | 163.1 | 185.0 | 179.0 | 157.1 | 154.9 | 154.9 | 149.4 | 154.9 | 154.6 |
| 70°   | 1260.2 | 287.4 | 133.8 | 160.9 | 163.4 | 150.3 | 149.2 | 142.9 | 134.1 | 142.3 | 141.5 |
| 72.5° | 955.3  | 206.4 | 105.4 | 127.3 | 140.7 | 140.7 | 141.0 | 130.3 | 120.2 | 124.0 | 120.7 |
| 75°   | 605.2  | 145.3 | 84.3  | 97.4  | 110.3 | 123.4 | 129.7 | 110.0 | 101.0 | 99.4  | 97.7  |
| 77.5° | 272.6  | 95.5  | 65.7  | 74.7  | 78.3  | 97.4  | 118.5 | 94.7  | 82.4  | 78.8  | 77.7  |
| 80°   | 114.1  | 59.4  | 46.8  | 52.8  | 48.2  | 81.8  | 104.6 | 73.6  | 60.5  | 55.6  | 52.0  |
| 82.5° | 50.1   | 35.3  | 29.8  | 28.5  | 30.1  | 60.8  | 78.0  | 49.0  | 37.8  | 51.2  | 51.7  |
| 85°   | 21.1   | 18.6  | 15.3  | 14.0  | 12.3  | 23.3  | 36.7  | 19.2  | 23.5  | 13.4  | 10.9  |
| 87.5° | 4.9    | 5.5   | 4.1   | 2.7   | 1.6   | 0.3   | 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)