

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: P630795

Luminaire Tested: GWS-SA1E-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630795
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-SA1E-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7620.8 lumens
Efficiency: N/A
Efficacy: 130.5 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

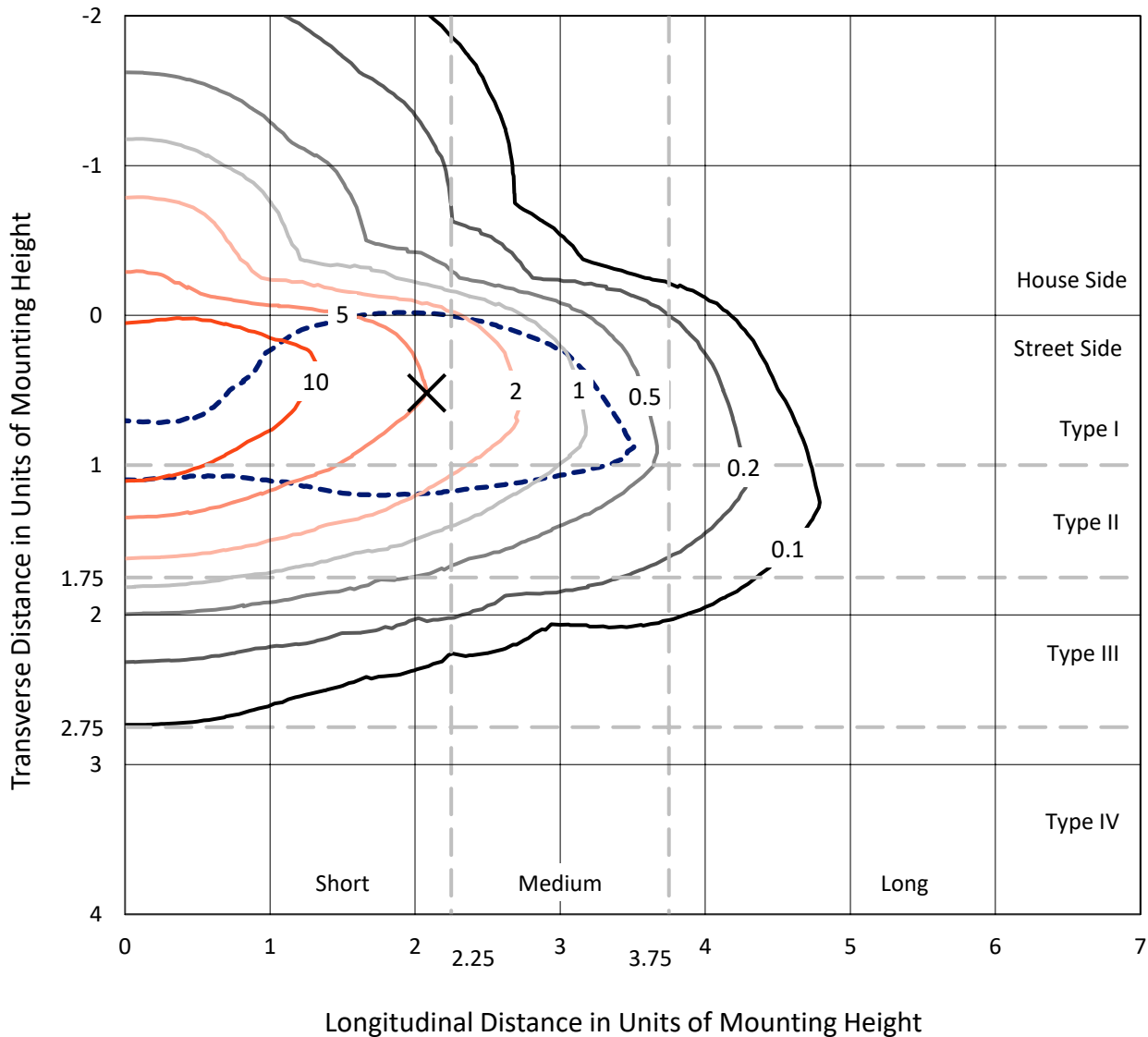
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

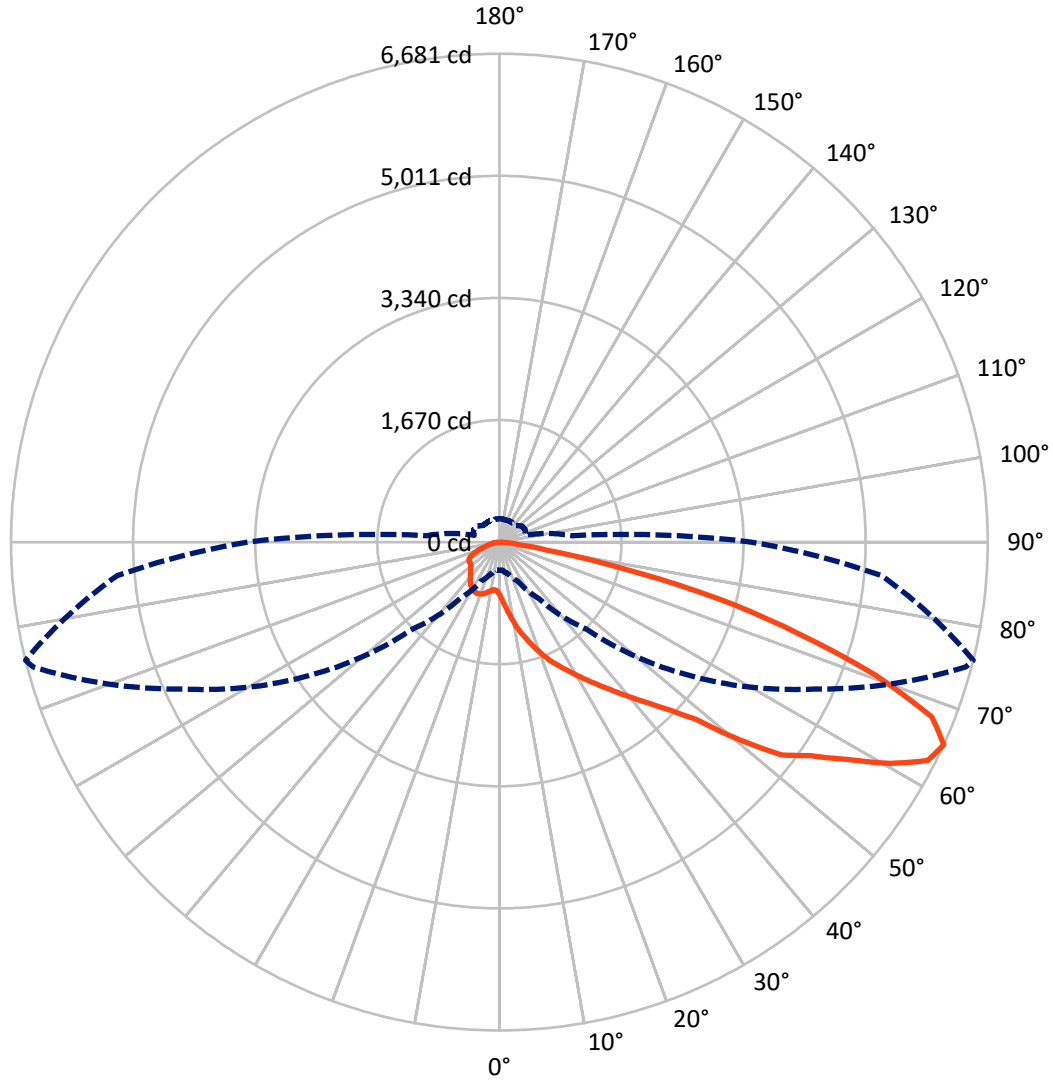
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1273.8 | 0.0 | 1273.8 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 6347.0 | 0.0 | 6347.0 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 7620.8 | 0.0 | 7620.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.7 | 1.1 |
| 10°-20° | 326.6 | 4.3 |
| 20°-30° | 636.4 | 8.4 |
| 30°-40° | 1064.4 | 14.0 |
| 40°-50° | 1524.0 | 20.0 |
| 50°-60° | 1804.2 | 23.7 |
| 60°-70° | 1500.2 | 19.7 |
| 70°-80° | 613.9 | 8.1 |
| 80°-90° | 65.4 | 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° | 7620.8 | 100.0 |
| 0°-180° | 7620.8 | 100.0 |

Coefficient of Utilization



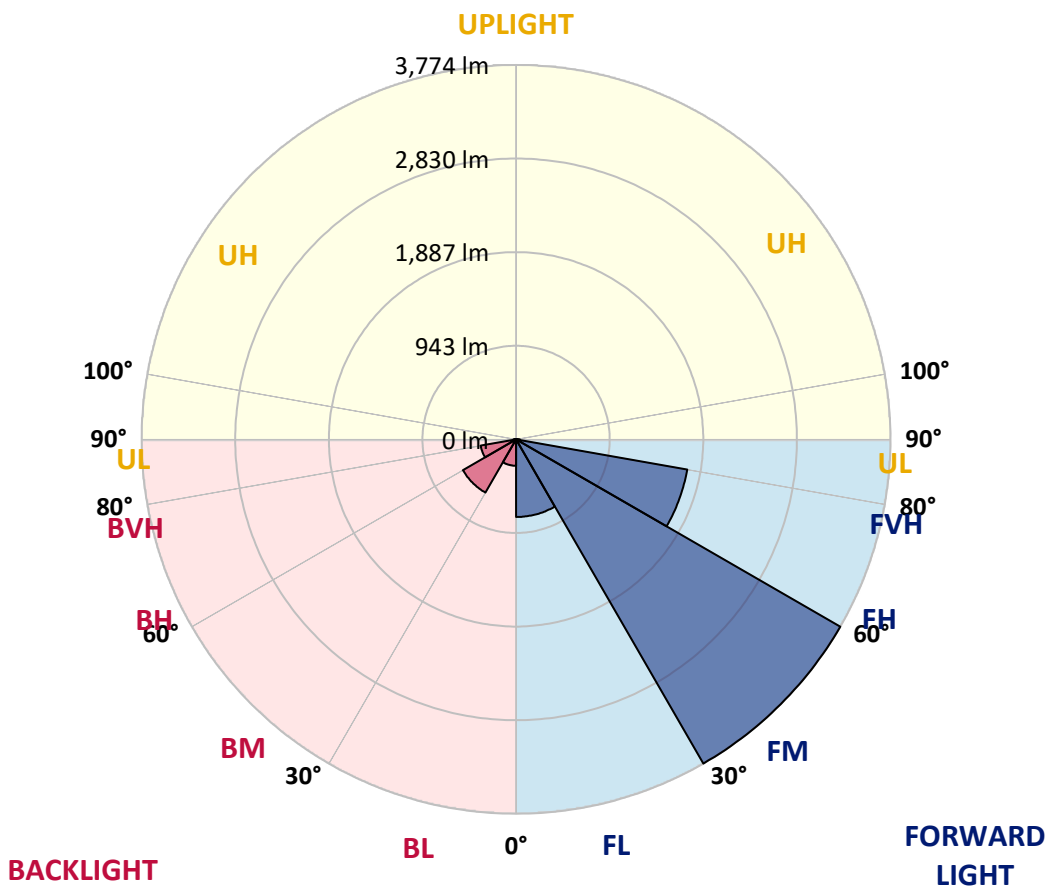
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 782.2 | 10.3 | | | |
| FM (30°-60°) | 3773.5 | 49.5 | | | |
| FH (60°-80°) | 1752.2 | 23.0 | | | G1/1800 |
| FVH (80°-90°) | 39.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 266.5 | 3.5 | B1/500 | | |
| BM (30°-60°) | 619.1 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 361.9 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.4 | 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° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 |
| 2.5° | 1011.5 | 1015.3 | 1002.9 | 998.6 | 969.7 | 930.6 | 897.9 | 848.6 | 803.1 | 796.1 | 755.4 |
| 5° | 1284.7 | 1268.7 | 1254.7 | 1245.6 | 1205.4 | 1161.0 | 1091.9 | 999.2 | 902.2 | 890.4 | 802.6 |
| 7.5° | 1447.1 | 1444.4 | 1427.3 | 1421.9 | 1390.8 | 1346.4 | 1275.1 | 1159.9 | 1019.0 | 999.7 | 866.3 |
| 10° | 1577.3 | 1575.7 | 1567.1 | 1571.9 | 1543.5 | 1500.1 | 1431.0 | 1312.1 | 1147.1 | 1127.8 | 937.6 |
| 12.5° | 1690.8 | 1693.5 | 1691.9 | 1709.6 | 1695.1 | 1661.4 | 1589.6 | 1458.9 | 1275.1 | 1254.2 | 1024.4 |
| 15° | 1773.9 | 1776.0 | 1784.1 | 1822.6 | 1830.7 | 1823.7 | 1750.8 | 1603.0 | 1401.5 | 1371.5 | 1113.8 |
| 17.5° | 1797.5 | 1801.7 | 1821.0 | 1883.2 | 1926.6 | 1955.5 | 1901.4 | 1749.8 | 1525.8 | 1493.1 | 1204.9 |
| 20° | 1829.1 | 1833.9 | 1853.2 | 1918.0 | 1981.8 | 2047.7 | 2038.0 | 1898.7 | 1651.2 | 1624.4 | 1297.1 |
| 22.5° | 1975.3 | 1971.6 | 1963.0 | 1994.1 | 2039.6 | 2121.6 | 2145.7 | 2041.8 | 1780.8 | 1755.1 | 1398.9 |
| 25° | 2257.1 | 2250.2 | 2195.5 | 2167.1 | 2152.1 | 2202.0 | 2244.8 | 2171.9 | 1907.3 | 1868.7 | 1493.7 |
| 27.5° | 2567.9 | 2564.1 | 2494.5 | 2427.0 | 2334.8 | 2313.4 | 2338.6 | 2285.5 | 2030.0 | 1990.9 | 1576.2 |
| 30° | 2862.0 | 2850.8 | 2777.9 | 2693.2 | 2570.0 | 2477.9 | 2440.9 | 2397.0 | 2164.4 | 2123.7 | 1672.6 |
| 32.5° | 3125.1 | 3110.6 | 3024.9 | 2931.1 | 2802.0 | 2693.2 | 2582.9 | 2515.4 | 2316.6 | 2269.5 | 1771.2 |
| 35° | 3341.0 | 3326.5 | 3238.6 | 3139.0 | 2997.0 | 2916.6 | 2765.6 | 2643.9 | 2471.4 | 2423.8 | 1887.5 |
| 37.5° | 3508.1 | 3494.7 | 3403.1 | 3305.1 | 3181.3 | 3117.6 | 2986.3 | 2788.6 | 2649.8 | 2600.0 | 2010.7 |
| 40° | 3601.9 | 3592.2 | 3518.8 | 3441.2 | 3337.2 | 3282.0 | 3223.1 | 2971.3 | 2849.7 | 2799.9 | 2155.9 |
| 42.5° | 3630.3 | 3623.8 | 3572.4 | 3532.2 | 3462.0 | 3420.3 | 3454.0 | 3186.1 | 3062.9 | 3019.5 | 2319.3 |
| 45° | 3559.0 | 3559.0 | 3544.0 | 3564.4 | 3567.6 | 3567.1 | 3685.5 | 3428.8 | 3324.9 | 3277.2 | 2549.7 |
| 47.5° | 3376.9 | 3388.6 | 3410.6 | 3510.8 | 3616.3 | 3704.7 | 3956.0 | 3752.4 | 3661.9 | 3622.8 | 2875.9 |
| 50° | 3043.6 | 3075.8 | 3150.8 | 3346.3 | 3570.8 | 3795.8 | 4212.1 | 4230.9 | 4317.1 | 4248.0 | 3356.0 |
| 52.5° | 2555.5 | 2550.7 | 2742.0 | 3020.6 | 3362.9 | 3799.6 | 4353.0 | 4653.0 | 4885.0 | 4837.3 | 3712.8 |
| 55° | 2031.0 | 2023.0 | 2201.4 | 2585.6 | 3044.2 | 3656.0 | 4437.7 | 4846.4 | 5200.0 | 5157.2 | 4033.7 |
| 57.5° | 1555.3 | 1545.1 | 1703.7 | 2050.3 | 2594.1 | 3351.1 | 4421.6 | 5076.8 | 5633.5 | 5611.5 | 4469.8 |
| 60° | 1070.4 | 1058.1 | 1206.5 | 1509.8 | 2061.6 | 2885.0 | 4243.7 | 5195.2 | 6140.8 | 6148.3 | 4936.4 |
| 62.5° | 642.9 | 635.9 | 743.6 | 978.8 | 1483.0 | 2307.5 | 3827.4 | 5123.4 | 6544.8 | 6578.5 | 5236.5 |
| 65° | 387.9 | 383.1 | 446.3 | 584.0 | 940.8 | 1683.9 | 3185.6 | 4756.4 | 6603.2 | 6680.9 | 5243.4 |
| 67.5° | 282.3 | 282.9 | 301.1 | 355.7 | 548.6 | 1087.6 | 2390.5 | 4098.5 | 6298.9 | 6379.2 | 4912.9 |
| 70° | 245.4 | 246.4 | 256.1 | 268.4 | 331.6 | 622.5 | 1554.2 | 3235.4 | 5399.3 | 5461.5 | 4120.5 |
| 72.5° | 218.1 | 218.1 | 224.5 | 230.9 | 259.3 | 379.3 | 832.6 | 2261.4 | 4261.4 | 4278.0 | 3144.9 |
| 75° | 191.8 | 190.2 | 193.4 | 196.6 | 225.0 | 265.2 | 405.0 | 1575.7 | 3147.6 | 3109.0 | 2032.7 |
| 77.5° | 152.7 | 151.1 | 151.6 | 154.8 | 180.5 | 189.7 | 205.2 | 984.2 | 1773.9 | 1674.2 | 897.9 |
| 80° | 108.8 | 107.7 | 113.6 | 121.6 | 133.4 | 116.3 | 128.6 | 476.3 | 703.4 | 654.7 | 348.2 |
| 82.5° | 64.8 | 67.0 | 76.1 | 82.5 | 92.1 | 72.9 | 83.0 | 159.1 | 249.1 | 242.7 | 141.4 |
| 85° | 9.1 | 9.6 | 27.3 | 31.6 | 39.6 | 28.4 | 43.9 | 71.8 | 99.7 | 106.6 | 49.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 12.9 | 28.4 | 28.9 | 12.3 |
| 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° | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 |
| 2.5° | 734.5 | 709.3 | 673.4 | 643.4 | 618.3 | 597.9 | 580.8 | 567.9 | 564.1 | 558.8 | 558.8 |
| 5° | 761.3 | 715.8 | 651.5 | 605.9 | 579.7 | 564.1 | 553.4 | 548.1 | 545.4 | 542.2 | 540.6 |
| 7.5° | 798.3 | 734.5 | 647.7 | 601.7 | 581.3 | 571.7 | 564.7 | 561.5 | 559.3 | 556.1 | 556.1 |
| 10° | 849.2 | 762.4 | 659.5 | 616.7 | 600.6 | 590.9 | 582.9 | 577.5 | 572.7 | 567.9 | 566.8 |
| 12.5° | 904.4 | 798.8 | 680.9 | 637.0 | 619.9 | 608.1 | 596.8 | 588.8 | 582.9 | 577.0 | 575.4 |
| 15° | 965.4 | 836.3 | 704.0 | 656.8 | 635.4 | 619.3 | 605.9 | 593.6 | 585.6 | 577.0 | 575.9 |
| 17.5° | 1025.4 | 874.4 | 723.3 | 670.2 | 642.9 | 623.1 | 603.8 | 587.7 | 577.5 | 567.9 | 565.2 |
| 20° | 1097.2 | 912.4 | 736.7 | 674.0 | 641.3 | 615.0 | 592.0 | 571.7 | 560.4 | 549.1 | 547.5 |
| 22.5° | 1163.1 | 947.8 | 743.1 | 668.6 | 629.0 | 597.9 | 571.1 | 549.1 | 536.8 | 525.6 | 523.4 |
| 25° | 1226.9 | 978.8 | 740.4 | 655.8 | 610.2 | 574.3 | 546.5 | 524.5 | 512.7 | 500.9 | 497.7 |
| 27.5° | 1288.5 | 999.7 | 729.7 | 635.9 | 586.7 | 548.1 | 521.3 | 501.5 | 491.3 | 481.1 | 476.8 |
| 30° | 1349.0 | 1019.0 | 713.1 | 610.2 | 556.6 | 520.8 | 498.8 | 484.9 | 474.7 | 464.0 | 460.7 |
| 32.5° | 1410.1 | 1032.9 | 687.9 | 580.2 | 526.1 | 496.6 | 483.3 | 473.1 | 462.4 | 451.6 | 448.4 |
| 35° | 1471.7 | 1038.8 | 657.4 | 545.9 | 500.4 | 481.1 | 476.3 | 464.5 | 450.0 | 437.2 | 432.9 |
| 37.5° | 1545.1 | 1044.2 | 619.3 | 512.2 | 477.9 | 473.6 | 472.5 | 454.9 | 437.7 | 420.0 | 415.2 |
| 40° | 1633.5 | 1051.2 | 580.2 | 481.6 | 459.7 | 470.9 | 466.6 | 442.5 | 408.2 | 391.1 | 385.7 |
| 42.5° | 1741.7 | 1064.0 | 539.5 | 453.8 | 446.3 | 460.7 | 455.9 | 412.5 | 389.5 | 379.9 | 377.2 |
| 45° | 1900.9 | 1111.2 | 498.8 | 431.8 | 436.1 | 446.3 | 438.8 | 394.9 | 385.7 | 379.3 | 376.1 |
| 47.5° | 2184.3 | 1183.5 | 463.4 | 415.2 | 428.1 | 433.4 | 404.5 | 390.0 | 383.1 | 374.5 | 370.7 |
| 50° | 2478.9 | 1215.1 | 435.0 | 405.0 | 419.0 | 421.6 | 385.7 | 383.6 | 378.8 | 369.7 | 365.9 |
| 52.5° | 2678.2 | 1210.8 | 417.9 | 401.3 | 411.5 | 401.3 | 377.2 | 376.6 | 373.4 | 362.7 | 358.4 |
| 55° | 2903.3 | 1218.3 | 410.4 | 402.4 | 408.2 | 367.0 | 366.5 | 368.1 | 366.5 | 354.7 | 352.5 |
| 57.5° | 3207.0 | 1241.3 | 406.6 | 406.1 | 406.1 | 350.4 | 356.3 | 358.4 | 355.2 | 349.8 | 348.2 |
| 60° | 3499.0 | 1243.0 | 399.7 | 410.4 | 404.5 | 340.2 | 344.5 | 346.6 | 342.9 | 341.8 | 341.3 |
| 62.5° | 3608.8 | 1165.8 | 384.1 | 407.2 | 398.1 | 329.0 | 332.2 | 333.2 | 329.5 | 332.2 | 331.6 |
| 65° | 3445.4 | 1001.9 | 358.4 | 391.6 | 378.2 | 318.8 | 316.6 | 319.3 | 312.9 | 319.8 | 320.4 |
| 67.5° | 3059.2 | 796.1 | 319.3 | 362.2 | 350.4 | 307.5 | 303.2 | 303.2 | 292.5 | 303.2 | 302.7 |
| 70° | 2466.6 | 562.5 | 262.0 | 315.0 | 319.8 | 294.1 | 292.0 | 279.7 | 262.5 | 278.6 | 277.0 |
| 72.5° | 1869.8 | 404.0 | 206.3 | 249.1 | 275.4 | 275.4 | 275.9 | 255.0 | 235.2 | 242.7 | 236.3 |
| 75° | 1184.6 | 284.5 | 165.0 | 190.7 | 215.9 | 241.6 | 253.9 | 215.4 | 197.7 | 194.5 | 191.3 |
| 77.5° | 533.6 | 187.0 | 128.6 | 146.3 | 153.2 | 190.7 | 232.0 | 185.4 | 161.3 | 154.3 | 152.2 |
| 80° | 223.4 | 116.3 | 91.6 | 103.4 | 94.3 | 160.2 | 204.7 | 144.1 | 118.4 | 108.8 | 101.8 |
| 82.5° | 98.0 | 69.1 | 58.4 | 55.7 | 58.9 | 118.9 | 152.7 | 95.9 | 73.9 | 100.2 | 101.3 |
| 85° | 41.3 | 36.4 | 30.0 | 27.3 | 24.1 | 45.5 | 71.8 | 37.5 | 46.1 | 26.3 | 21.4 |
| 87.5° | 9.6 | 10.7 | 8.0 | 5.4 | 3.2 | 0.5 | 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)