

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P881537

Luminaire Tested: **NVN-SB1A-727-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4031 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 - Medium
BUG Rating: B1 - U0 - G1

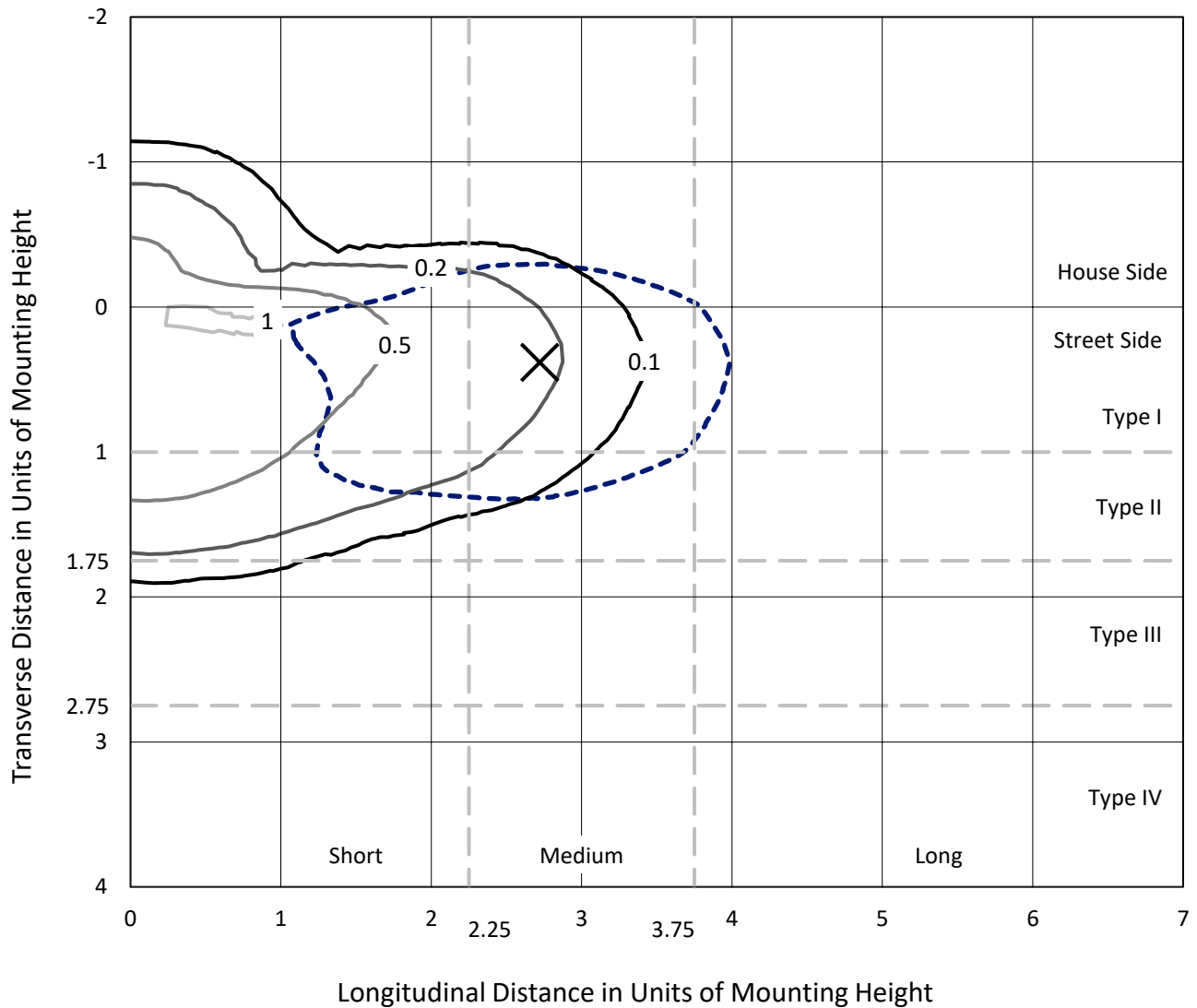
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

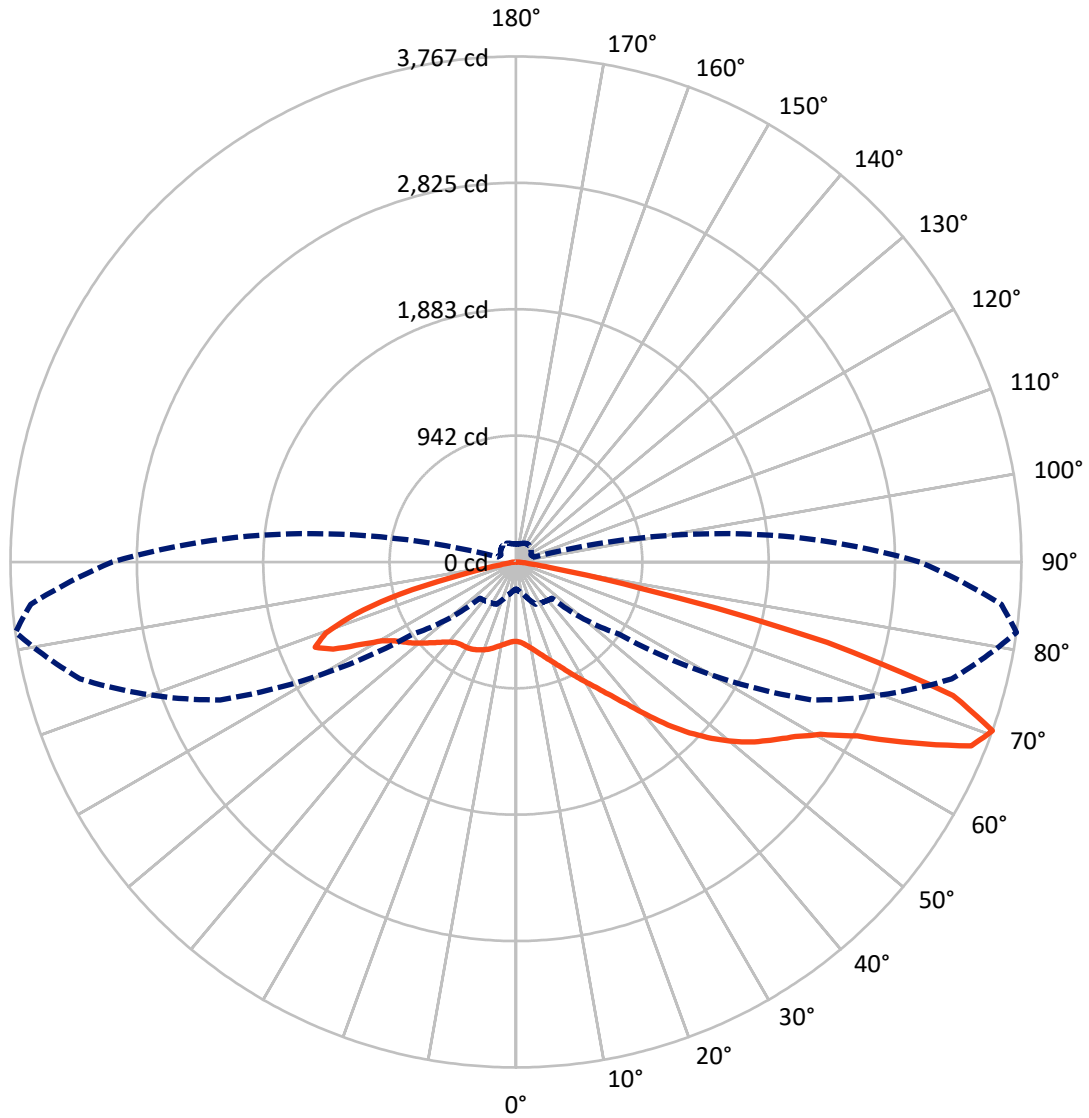
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 993.7 | 0.0 | 993.7 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 3037.3 | 0.0 | 3037.3 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 4031.0 | 0.0 | 4031.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.8 | 1.4 |
| 10°-20° | 160.3 | 4.0 |
| 20°-30° | 268.2 | 6.7 |
| 30°-40° | 419.0 | 10.4 |
| 40°-50° | 667.3 | 16.6 |
| 50°-60° | 928.6 | 23.0 |
| 60°-70° | 971.4 | 24.1 |
| 70°-80° | 507.7 | 12.6 |
| 80°-90° | 52.7 | 1.3 |
| 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° | 4031.0 | 100.0 |
| 0°-180° | 4031.0 | 100.0 |

Coefficient of Utilization

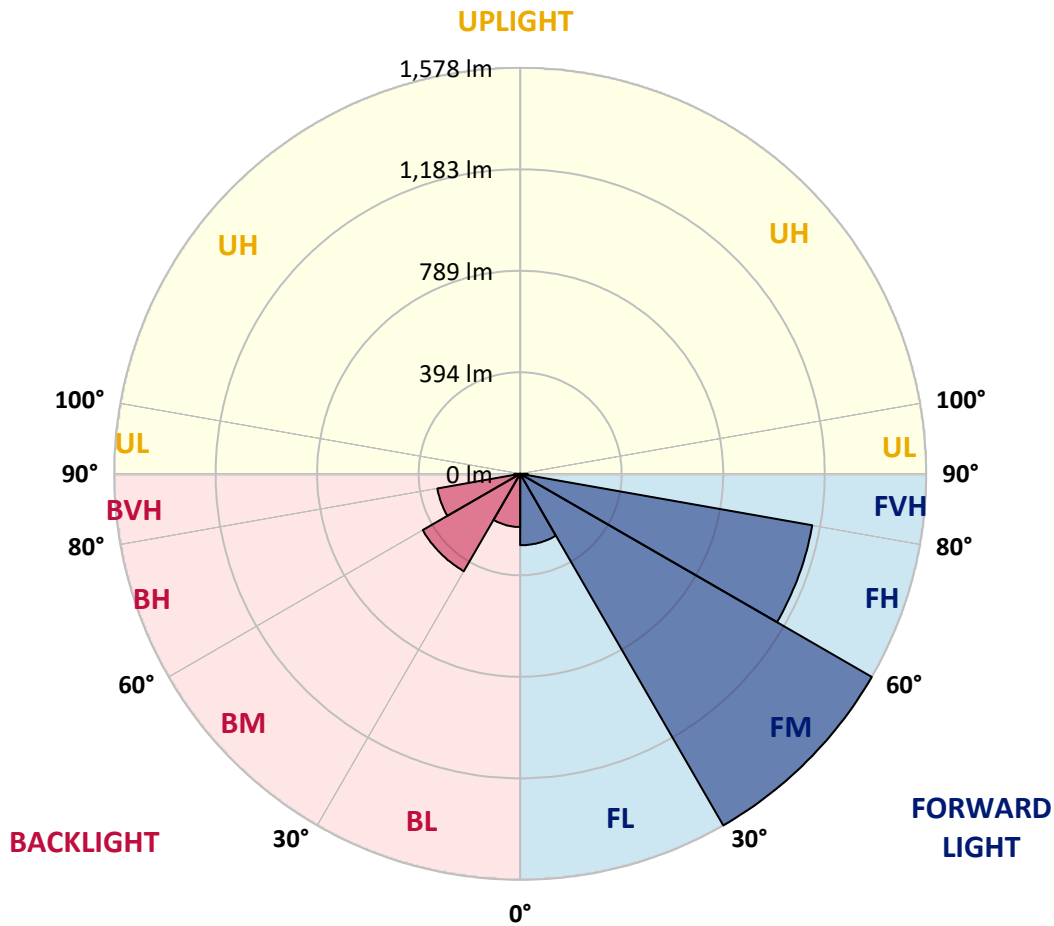


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 277.6 | 6.9 | | | |
| FM (30°-60°) | 1577.7 | 39.1 | | | |
| FH (60°-80°) | 1152.5 | 28.6 | | | G1/1800 |
| FVH (80°-90°) | 29.5 | 0.7 | | | G1/100 |
| BL (0°-30°) | 206.7 | 5.1 | B1/500 | | |
| BM (30°-60°) | 437.2 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 326.6 | 8.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.2 | 0.6 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 |
| 2.5° | 605.1 | 608.5 | 607.5 | 606.4 | 606.4 | 604.9 | 604.7 | 602.5 | 600.8 | 598.1 | 597.4 |
| 5° | 612.8 | 616.4 | 616.0 | 616.9 | 619.7 | 620.3 | 620.9 | 619.7 | 616.2 | 612.8 | 611.3 |
| 7.5° | 606.0 | 610.0 | 611.3 | 616.4 | 625.0 | 632.7 | 638.5 | 640.8 | 637.6 | 632.7 | 630.4 |
| 10° | 582.9 | 587.4 | 591.9 | 604.0 | 619.2 | 637.4 | 652.8 | 662.0 | 661.4 | 656.7 | 652.6 |
| 12.5° | 536.0 | 540.7 | 550.4 | 574.1 | 601.9 | 634.0 | 662.7 | 681.9 | 688.5 | 685.1 | 678.1 |
| 15° | 498.6 | 502.7 | 509.9 | 534.3 | 570.5 | 619.2 | 666.3 | 703.7 | 720.6 | 718.7 | 710.1 |
| 17.5° | 497.5 | 499.2 | 503.7 | 515.3 | 543.1 | 596.1 | 662.4 | 725.1 | 757.4 | 757.2 | 746.5 |
| 20° | 516.3 | 517.0 | 519.6 | 521.9 | 537.7 | 578.6 | 652.6 | 742.9 | 798.7 | 798.7 | 787.1 |
| 22.5° | 542.4 | 542.0 | 544.6 | 542.4 | 550.1 | 577.1 | 646.4 | 758.5 | 844.7 | 848.1 | 833.6 |
| 25° | 581.6 | 579.4 | 578.8 | 573.9 | 575.4 | 591.0 | 653.2 | 776.2 | 899.2 | 906.3 | 888.1 |
| 27.5° | 633.8 | 630.4 | 628.0 | 616.7 | 612.8 | 619.7 | 674.2 | 797.6 | 960.0 | 972.2 | 949.1 |
| 30° | 701.8 | 695.6 | 692.2 | 672.5 | 658.6 | 659.7 | 705.9 | 826.1 | 1023.5 | 1043.2 | 1013.9 |
| 32.5° | 794.6 | 785.0 | 775.8 | 743.5 | 718.0 | 709.7 | 746.7 | 865.4 | 1092.4 | 1123.8 | 1086.2 |
| 35° | 898.6 | 890.9 | 881.0 | 831.2 | 792.1 | 772.8 | 801.9 | 920.4 | 1173.0 | 1222.8 | 1173.9 |
| 37.5° | 998.7 | 992.1 | 996.8 | 929.6 | 879.1 | 851.1 | 874.2 | 994.2 | 1272.5 | 1346.0 | 1283.8 |
| 40° | 1102.2 | 1097.1 | 1097.7 | 1033.5 | 974.7 | 943.3 | 961.9 | 1086.8 | 1386.5 | 1492.6 | 1416.0 |
| 42.5° | 1214.7 | 1210.9 | 1198.0 | 1141.1 | 1075.0 | 1045.7 | 1062.8 | 1193.8 | 1508.8 | 1659.4 | 1561.0 |
| 45° | 1340.7 | 1338.3 | 1326.4 | 1261.1 | 1185.4 | 1152.5 | 1175.6 | 1311.8 | 1631.8 | 1816.4 | 1706.7 |
| 47.5° | 1449.6 | 1451.5 | 1450.0 | 1395.0 | 1316.5 | 1268.2 | 1295.8 | 1435.0 | 1746.2 | 1964.0 | 1846.4 |
| 50° | 1502.0 | 1512.0 | 1526.8 | 1509.7 | 1460.9 | 1411.7 | 1417.1 | 1554.0 | 1855.3 | 2102.4 | 1980.3 |
| 52.5° | 1474.6 | 1493.6 | 1533.8 | 1561.2 | 1580.1 | 1569.8 | 1555.5 | 1672.0 | 1958.0 | 2227.3 | 2106.9 |
| 55° | 1372.6 | 1399.3 | 1466.0 | 1532.1 | 1628.2 | 1702.8 | 1721.6 | 1802.9 | 2058.1 | 2337.2 | 2226.7 |
| 57.5° | 1186.7 | 1230.1 | 1290.0 | 1423.7 | 1585.4 | 1767.2 | 1915.4 | 1984.5 | 2164.2 | 2454.7 | 2352.0 |
| 60° | 868.0 | 926.2 | 1000.6 | 1199.5 | 1435.7 | 1732.8 | 2080.4 | 2263.4 | 2315.0 | 2606.8 | 2515.2 |
| 62.5° | 555.5 | 591.4 | 659.9 | 847.2 | 1118.7 | 1556.3 | 2130.8 | 2612.1 | 2570.6 | 2856.2 | 2759.9 |
| 65° | 380.3 | 403.4 | 466.1 | 571.3 | 723.2 | 1158.5 | 1995.7 | 2873.5 | 2976.6 | 3251.4 | 3178.3 |
| 67.5° | 276.4 | 293.9 | 347.4 | 439.6 | 471.2 | 685.5 | 1548.6 | 2861.5 | 3371.2 | 3658.7 | 3544.9 |
| 70° | 201.5 | 213.9 | 258.8 | 347.4 | 362.6 | 381.4 | 938.1 | 2432.4 | 3362.7 | 3766.9 | 3630.7 |
| 72.5° | 149.3 | 157.9 | 188.0 | 269.5 | 293.5 | 257.5 | 464.4 | 1767.9 | 2889.5 | 3407.2 | 3297.9 |
| 75° | 108.0 | 114.4 | 136.7 | 206.2 | 234.9 | 196.1 | 231.6 | 1033.1 | 2015.5 | 2396.7 | 2416.0 |
| 77.5° | 82.6 | 87.5 | 102.0 | 151.0 | 188.0 | 147.2 | 143.7 | 475.3 | 955.7 | 960.4 | 1014.3 |
| 80° | 66.3 | 69.5 | 77.4 | 106.3 | 144.2 | 110.2 | 93.7 | 191.9 | 302.0 | 255.6 | 268.2 |
| 82.5° | 48.8 | 54.1 | 65.5 | 74.6 | 103.1 | 75.9 | 57.1 | 96.9 | 114.9 | 98.8 | 99.7 |
| 85° | 27.8 | 31.4 | 39.6 | 53.5 | 65.9 | 46.4 | 32.7 | 43.0 | 53.5 | 43.8 | 39.1 |
| 87.5° | 9.8 | 12.8 | 13.9 | 21.0 | 28.7 | 19.3 | 12.6 | 12.4 | 17.5 | 13.0 | 10.9 |
| 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: P881537
 CATALOG NUMBER: NVN-SB1A-727-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 | 591.0 |
| 2.5° | 595.3 | 594.2 | 589.9 | 584.2 | 578.2 | 572.4 | 570.5 | 566.4 | 563.6 | 562.1 | 563.8 |
| 5° | 607.3 | 603.8 | 593.8 | 580.9 | 567.5 | 552.9 | 542.7 | 533.2 | 526.4 | 520.0 | 522.5 |
| 7.5° | 624.4 | 618.4 | 601.0 | 578.6 | 554.6 | 530.5 | 512.5 | 498.8 | 489.6 | 483.6 | 484.9 |
| 10° | 644.3 | 635.1 | 608.5 | 575.0 | 537.9 | 503.3 | 482.1 | 470.4 | 464.6 | 461.4 | 462.2 |
| 12.5° | 667.1 | 654.1 | 616.2 | 566.6 | 512.5 | 472.9 | 458.4 | 455.0 | 455.2 | 455.4 | 455.8 |
| 15° | 695.4 | 677.2 | 622.4 | 548.4 | 479.3 | 449.6 | 447.0 | 452.6 | 458.4 | 461.2 | 460.9 |
| 17.5° | 727.2 | 701.6 | 623.5 | 518.5 | 446.8 | 434.6 | 442.8 | 454.7 | 463.5 | 467.4 | 468.2 |
| 20° | 761.5 | 726.4 | 615.8 | 476.1 | 420.1 | 422.4 | 437.0 | 452.4 | 462.0 | 466.9 | 468.2 |
| 22.5° | 800.6 | 752.9 | 597.4 | 431.6 | 398.3 | 409.2 | 426.3 | 441.3 | 451.3 | 456.2 | 457.5 |
| 25° | 845.3 | 782.6 | 568.5 | 394.2 | 379.5 | 394.2 | 411.3 | 423.7 | 431.9 | 436.3 | 437.6 |
| 27.5° | 894.9 | 813.7 | 530.0 | 364.5 | 363.0 | 378.8 | 392.9 | 402.6 | 406.8 | 410.3 | 411.5 |
| 30° | 944.8 | 841.9 | 483.4 | 342.0 | 348.7 | 363.6 | 373.7 | 378.0 | 379.2 | 379.9 | 381.4 |
| 32.5° | 998.7 | 866.3 | 434.4 | 323.4 | 335.0 | 348.9 | 354.9 | 356.8 | 350.8 | 346.7 | 348.0 |
| 35° | 1063.9 | 892.4 | 386.5 | 308.7 | 321.5 | 333.5 | 335.4 | 333.7 | 326.6 | 318.3 | 318.7 |
| 37.5° | 1144.6 | 924.9 | 348.2 | 298.2 | 308.9 | 316.8 | 314.4 | 314.0 | 314.6 | 304.8 | 305.4 |
| 40° | 1243.4 | 967.2 | 320.2 | 290.0 | 298.6 | 300.3 | 293.7 | 297.3 | 300.5 | 285.6 | 286.0 |
| 42.5° | 1353.1 | 1018.4 | 302.4 | 284.5 | 290.0 | 286.0 | 275.7 | 279.8 | 279.3 | 259.7 | 259.5 |
| 45° | 1465.0 | 1074.0 | 296.2 | 280.4 | 282.1 | 274.0 | 262.7 | 263.7 | 254.8 | 237.0 | 237.6 |
| 47.5° | 1576.2 | 1133.6 | 300.1 | 277.0 | 272.3 | 263.1 | 254.3 | 249.6 | 236.4 | 223.1 | 223.1 |
| 50° | 1685.3 | 1196.3 | 314.2 | 270.2 | 258.8 | 253.5 | 247.1 | 238.7 | 224.6 | 213.3 | 212.4 |
| 52.5° | 1786.5 | 1259.4 | 330.0 | 258.8 | 241.9 | 245.1 | 241.1 | 231.4 | 217.5 | 206.0 | 206.2 |
| 55° | 1882.3 | 1322.5 | 336.2 | 243.2 | 226.1 | 237.9 | 235.5 | 217.7 | 201.1 | 191.7 | 190.8 |
| 57.5° | 1986.7 | 1398.5 | 329.4 | 223.3 | 213.3 | 229.5 | 220.5 | 200.8 | 191.2 | 184.2 | 183.5 |
| 60° | 2131.3 | 1517.6 | 314.6 | 198.7 | 201.1 | 217.1 | 201.7 | 193.6 | 183.1 | 175.2 | 174.8 |
| 62.5° | 2371.5 | 1739.8 | 290.9 | 174.3 | 186.7 | 198.7 | 192.7 | 184.6 | 173.9 | 166.2 | 166.2 |
| 65° | 2726.5 | 2048.7 | 246.2 | 155.3 | 170.7 | 180.7 | 183.1 | 175.0 | 163.8 | 155.7 | 156.1 |
| 67.5° | 3026.0 | 2242.5 | 186.3 | 139.5 | 154.2 | 166.2 | 172.8 | 164.9 | 153.1 | 145.2 | 145.4 |
| 70° | 3009.5 | 2101.7 | 142.2 | 123.8 | 139.7 | 151.9 | 160.4 | 154.2 | 141.6 | 134.1 | 134.8 |
| 72.5° | 2673.1 | 1758.2 | 115.1 | 108.0 | 124.9 | 136.9 | 147.2 | 142.5 | 129.6 | 122.3 | 122.3 |
| 75° | 1963.8 | 1248.1 | 92.0 | 92.0 | 106.5 | 121.3 | 132.6 | 129.6 | 117.9 | 112.7 | 111.2 |
| 77.5° | 827.8 | 523.6 | 72.1 | 76.4 | 88.6 | 104.2 | 118.3 | 119.4 | 109.1 | 115.5 | 104.8 |
| 80° | 220.1 | 144.4 | 55.0 | 60.1 | 69.5 | 86.0 | 102.9 | 102.5 | 91.3 | 85.3 | 79.4 |
| 82.5° | 83.8 | 56.9 | 39.1 | 42.4 | 50.3 | 65.9 | 81.5 | 84.1 | 72.9 | 63.1 | 63.1 |
| 85° | 32.3 | 24.4 | 24.2 | 25.5 | 29.3 | 43.6 | 61.6 | 63.7 | 55.0 | 46.6 | 48.1 |
| 87.5° | 8.3 | 7.3 | 9.0 | 8.6 | 13.5 | 23.3 | 35.3 | 36.6 | 33.6 | 19.5 | 27.8 |
| 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)