

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: P959477

Luminaire Tested: **NVN-SB1A-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4229.2 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

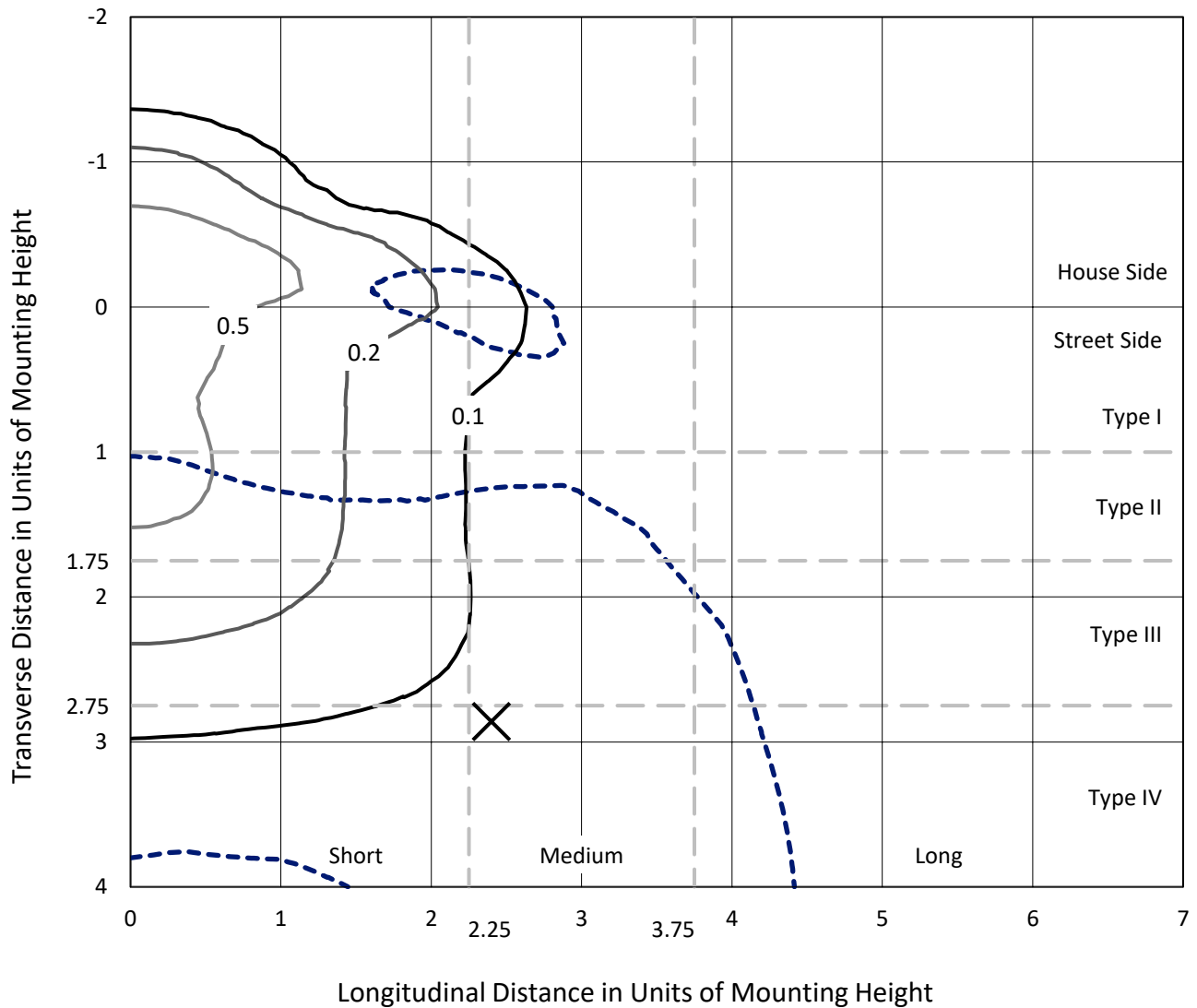
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

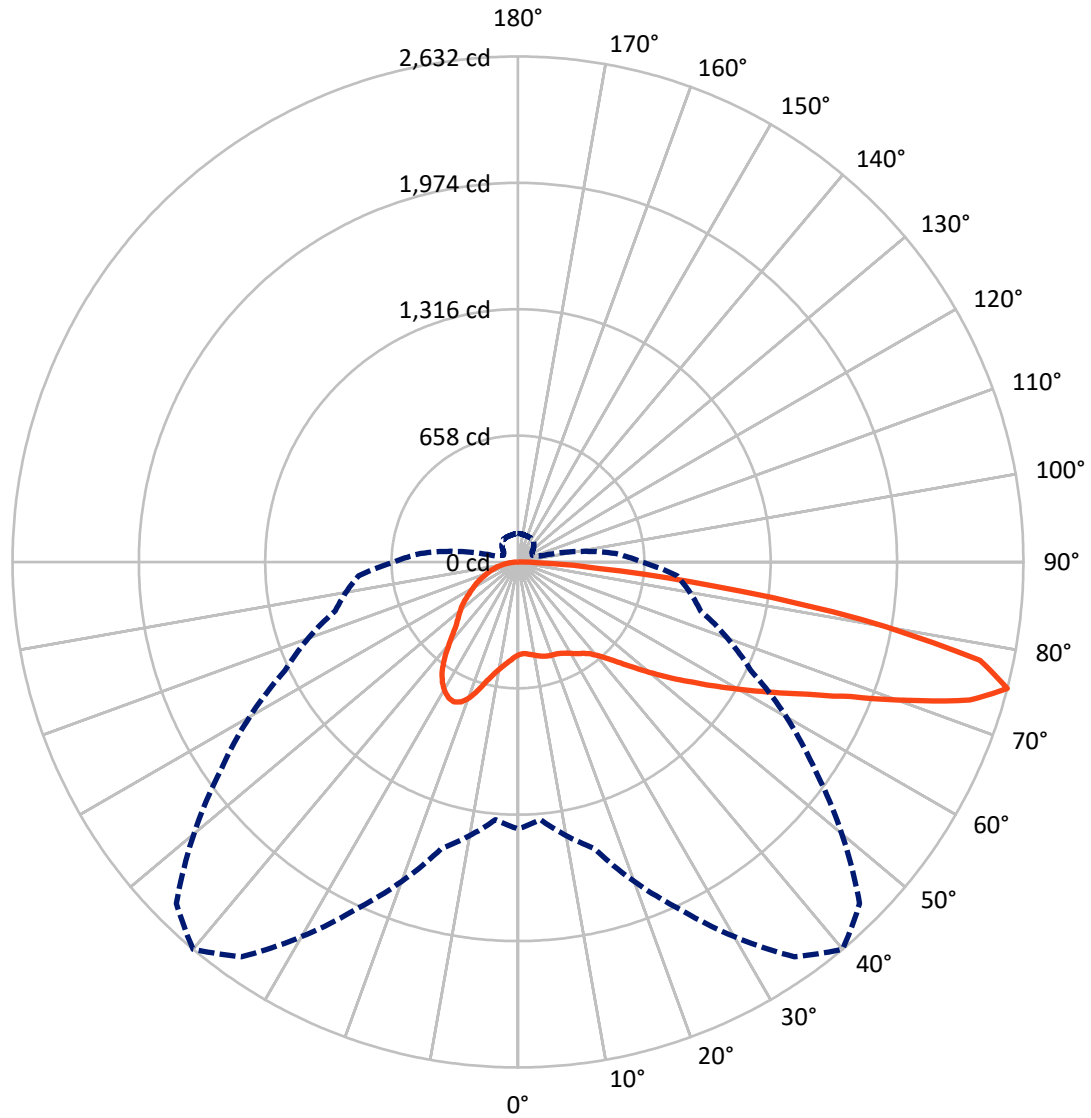
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1310.3 | 0.0 | 1310.3 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 2918.8 | 0.0 | 2918.8 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 4229.2 | 0.0 | 4229.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.3 | 1.1 |
| 10°-20° | 162.1 | 3.8 |
| 20°-30° | 295.9 | 7.0 |
| 30°-40° | 419.7 | 9.9 |
| 40°-50° | 566.8 | 13.4 |
| 50°-60° | 762.4 | 18.0 |
| 60°-70° | 967.7 | 22.9 |
| 70°-80° | 878.3 | 20.8 |
| 80°-90° | 128.0 | 3.0 |
| 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° | 4229.2 | 100.0 |
| 0°-180° | 4229.2 | 100.0 |



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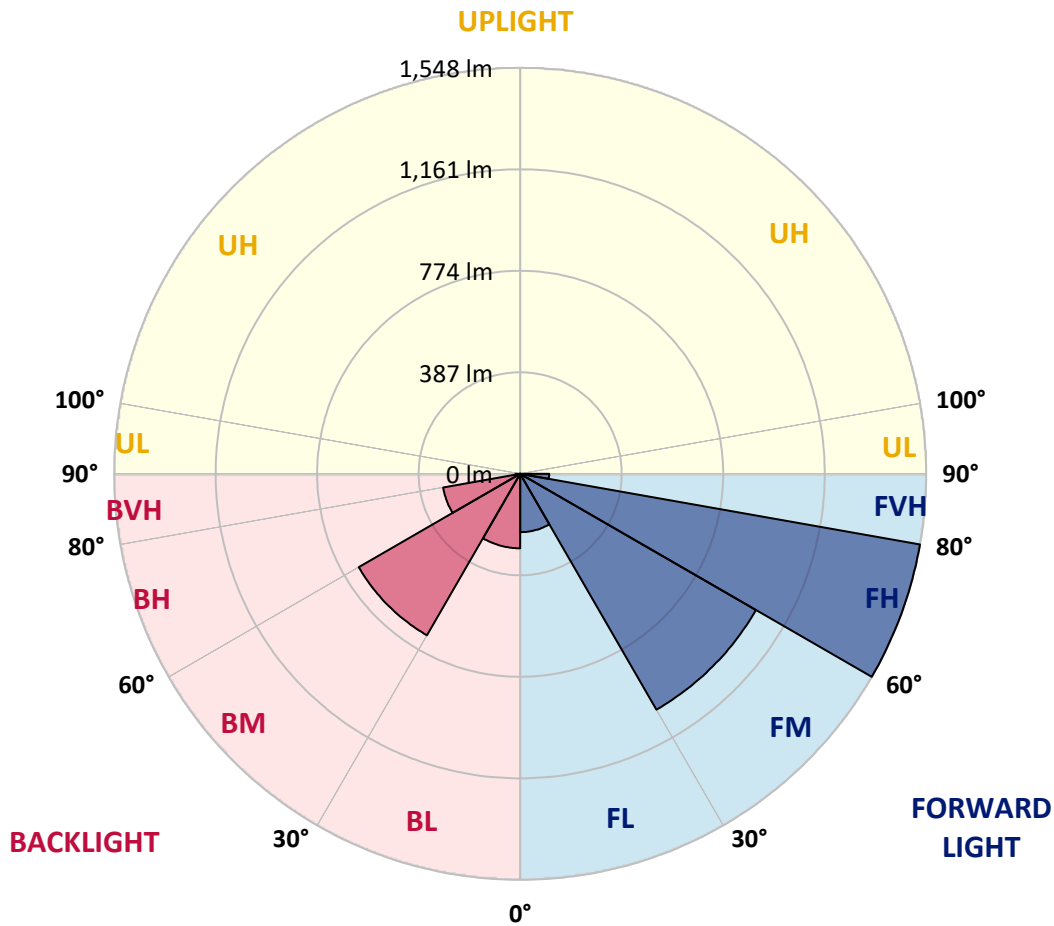
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 222.5 | 5.3 | | | |
| FM | (30°-60°) | 1038.2 | 24.5 | | | |
| FH | (60°-80°) | 1547.8 | 36.6 | | | G1/1800 |
| FVH | (80°-90°) | 110.4 | 2.6 | | | G2/225 |
| BL | (0°-30°) | 283.8 | 6.7 | B1/500 | | |
| BM | (30°-60°) | 710.7 | 16.8 | B1/1000 | | |
| BH | (60°-80°) | 298.1 | 7.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 17.6 | 0.4 | | | 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 IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 |
| 2.5° | 476.2 | 478.9 | 478.3 | 477.3 | 477.3 | 477.5 | 477.3 | 478.9 | 480.4 | 482.1 | 484.5 |
| 5° | 481.1 | 483.8 | 482.5 | 481.3 | 480.4 | 480.2 | 479.6 | 479.4 | 480.2 | 482.3 | 485.6 |
| 7.5° | 490.8 | 493.4 | 491.5 | 489.4 | 487.7 | 486.8 | 485.8 | 484.5 | 483.8 | 484.9 | 489.6 |
| 10° | 501.5 | 504.2 | 501.7 | 498.2 | 495.3 | 494.2 | 493.2 | 491.9 | 491.0 | 491.7 | 496.8 |
| 12.5° | 512.3 | 515.1 | 511.7 | 506.8 | 502.9 | 502.2 | 501.1 | 500.6 | 500.4 | 500.2 | 505.3 |
| 15° | 522.4 | 524.7 | 520.4 | 514.6 | 510.6 | 509.4 | 508.3 | 508.9 | 510.0 | 511.4 | 517.2 |
| 17.5° | 530.2 | 532.5 | 526.2 | 518.6 | 514.8 | 514.3 | 513.6 | 515.9 | 519.1 | 522.4 | 529.6 |
| 20° | 537.4 | 539.7 | 531.6 | 521.3 | 516.8 | 516.8 | 517.0 | 521.7 | 526.2 | 531.2 | 541.0 |
| 22.5° | 547.6 | 549.3 | 539.5 | 525.3 | 518.9 | 519.3 | 521.1 | 525.8 | 531.4 | 538.1 | 551.8 |
| 25° | 562.5 | 564.0 | 551.8 | 533.0 | 525.5 | 526.8 | 528.5 | 530.7 | 536.1 | 544.0 | 562.3 |
| 27.5° | 586.8 | 587.9 | 571.9 | 546.4 | 535.2 | 537.4 | 539.7 | 538.1 | 540.6 | 547.3 | 570.8 |
| 30° | 620.8 | 621.6 | 601.4 | 567.5 | 551.6 | 552.7 | 553.2 | 546.6 | 541.9 | 547.3 | 576.9 |
| 32.5° | 661.2 | 661.0 | 637.0 | 593.1 | 570.2 | 569.1 | 565.3 | 552.5 | 541.5 | 546.2 | 582.3 |
| 35° | 723.9 | 721.4 | 690.4 | 628.9 | 591.3 | 584.4 | 575.3 | 558.9 | 543.8 | 545.1 | 587.0 |
| 37.5° | 827.5 | 819.9 | 777.1 | 687.8 | 622.7 | 605.0 | 591.7 | 569.5 | 548.7 | 544.6 | 592.7 |
| 40° | 944.3 | 934.7 | 887.5 | 768.2 | 669.7 | 641.3 | 620.0 | 584.6 | 556.8 | 546.6 | 601.0 |
| 42.5° | 1082.9 | 1069.3 | 1018.5 | 863.2 | 729.5 | 688.2 | 656.1 | 603.6 | 568.7 | 553.2 | 612.1 |
| 45° | 1253.2 | 1235.0 | 1163.3 | 970.2 | 804.6 | 749.7 | 706.8 | 632.5 | 586.8 | 565.7 | 628.9 |
| 47.5° | 1425.3 | 1429.8 | 1327.7 | 1092.6 | 894.7 | 825.4 | 770.3 | 676.1 | 613.3 | 585.9 | 656.1 |
| 50° | 1608.0 | 1611.2 | 1491.2 | 1228.4 | 997.0 | 911.1 | 841.6 | 724.8 | 650.1 | 614.6 | 696.7 |
| 52.5° | 1750.7 | 1751.2 | 1639.7 | 1370.3 | 1103.6 | 1005.3 | 918.5 | 780.3 | 692.7 | 652.7 | 750.7 |
| 55° | 1840.0 | 1838.8 | 1743.7 | 1504.7 | 1226.1 | 1104.2 | 1003.8 | 843.6 | 744.7 | 697.6 | 818.8 |
| 57.5° | 1904.9 | 1901.5 | 1815.6 | 1620.2 | 1356.6 | 1221.2 | 1100.2 | 915.4 | 806.2 | 751.0 | 908.3 |
| 60° | 1929.5 | 1927.5 | 1864.3 | 1720.0 | 1493.9 | 1350.3 | 1211.4 | 995.7 | 876.0 | 814.1 | 1023.3 |
| 62.5° | 1938.9 | 1942.8 | 1912.0 | 1816.7 | 1640.8 | 1493.4 | 1333.7 | 1091.7 | 954.5 | 885.4 | 1144.6 |
| 65° | 1972.1 | 1979.1 | 1972.8 | 1943.2 | 1806.8 | 1661.0 | 1495.9 | 1205.9 | 1040.1 | 961.9 | 1271.4 |
| 67.5° | 2037.8 | 2044.8 | 2047.4 | 2094.6 | 2009.6 | 1869.8 | 1698.2 | 1348.1 | 1140.4 | 1041.2 | 1366.7 |
| 70° | 2036.3 | 2034.2 | 2081.8 | 2215.0 | 2263.5 | 2159.0 | 1971.0 | 1523.0 | 1259.9 | 1107.2 | 1378.8 |
| 72.5° | 1853.5 | 1837.3 | 1949.7 | 2213.7 | 2474.8 | 2460.9 | 2304.1 | 1748.8 | 1363.1 | 1115.3 | 1196.5 |
| 75° | 1390.5 | 1347.5 | 1545.9 | 1995.0 | 2510.0 | 2632.3 | 2515.9 | 1888.7 | 1338.6 | 985.4 | 832.6 |
| 77.5° | 594.6 | 551.3 | 785.4 | 1476.8 | 2246.5 | 2460.6 | 2321.6 | 1647.8 | 1068.6 | 651.6 | 408.9 |
| 80° | 155.7 | 155.5 | 237.3 | 669.5 | 1527.8 | 1817.1 | 1594.2 | 1064.2 | 610.6 | 232.9 | 112.9 |
| 82.5° | 64.4 | 62.8 | 87.2 | 260.5 | 746.5 | 1019.7 | 832.2 | 474.7 | 220.5 | 63.0 | 37.4 |
| 85° | 24.0 | 23.8 | 42.4 | 90.0 | 263.3 | 420.6 | 304.4 | 121.4 | 54.9 | 30.7 | 16.8 |
| 87.5° | 6.8 | 6.5 | 9.2 | 31.2 | 64.2 | 97.4 | 52.1 | 20.0 | 15.5 | 12.1 | 4.9 |
| 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° | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 | 483.6 |
| 2.5° | 485.1 | 486.3 | 488.3 | 489.8 | 491.9 | 494.2 | 497.3 | 499.3 | 501.3 | 502.7 | 501.7 |
| 5° | 487.2 | 489.6 | 494.9 | 500.0 | 506.0 | 511.7 | 518.1 | 522.9 | 526.6 | 527.8 | 528.3 |
| 7.5° | 491.7 | 495.7 | 504.5 | 513.2 | 522.9 | 532.1 | 541.5 | 549.6 | 556.1 | 558.5 | 558.7 |
| 10° | 499.6 | 504.9 | 517.2 | 529.6 | 542.3 | 556.5 | 568.7 | 580.3 | 589.5 | 593.3 | 593.5 |
| 12.5° | 509.4 | 516.1 | 532.3 | 549.3 | 567.0 | 586.6 | 602.3 | 616.6 | 628.0 | 633.2 | 633.2 |
| 15° | 522.2 | 530.9 | 551.6 | 574.4 | 600.4 | 627.6 | 647.6 | 663.5 | 676.3 | 682.5 | 682.1 |
| 17.5° | 536.1 | 547.8 | 573.8 | 608.3 | 645.5 | 681.2 | 704.6 | 716.2 | 729.5 | 735.5 | 735.2 |
| 20° | 549.6 | 564.0 | 601.2 | 651.4 | 701.0 | 738.9 | 757.7 | 760.9 | 761.8 | 762.4 | 764.2 |
| 22.5° | 563.4 | 582.7 | 635.5 | 705.7 | 758.8 | 785.0 | 787.8 | 774.3 | 755.4 | 746.7 | 749.2 |
| 25° | 578.7 | 604.2 | 680.3 | 765.6 | 808.6 | 811.8 | 791.1 | 758.4 | 722.7 | 706.3 | 708.8 |
| 27.5° | 593.5 | 629.1 | 734.2 | 822.8 | 844.5 | 816.9 | 772.5 | 726.1 | 683.1 | 665.7 | 667.8 |
| 30° | 608.3 | 657.6 | 793.6 | 872.8 | 860.9 | 804.1 | 743.1 | 691.4 | 648.0 | 629.9 | 631.9 |
| 32.5° | 623.3 | 690.8 | 862.0 | 908.9 | 858.0 | 777.1 | 706.5 | 652.3 | 614.2 | 595.1 | 597.6 |
| 35° | 640.4 | 731.6 | 926.8 | 928.6 | 838.4 | 737.1 | 658.4 | 605.7 | 572.5 | 557.2 | 560.6 |
| 37.5° | 662.6 | 783.5 | 984.0 | 933.6 | 804.4 | 678.6 | 598.5 | 550.4 | 523.1 | 516.1 | 521.1 |
| 40° | 690.2 | 845.8 | 1027.8 | 925.7 | 753.9 | 607.4 | 533.0 | 494.6 | 479.1 | 480.7 | 486.1 |
| 42.5° | 726.1 | 915.6 | 1058.5 | 905.5 | 683.7 | 534.1 | 475.5 | 458.5 | 465.9 | 472.2 | 478.0 |
| 45° | 772.7 | 988.1 | 1077.6 | 871.2 | 604.2 | 471.9 | 441.7 | 445.7 | 451.3 | 452.0 | 456.4 |
| 47.5° | 832.4 | 1061.4 | 1090.2 | 819.4 | 523.3 | 428.2 | 420.1 | 421.1 | 419.9 | 415.2 | 418.8 |
| 50° | 906.9 | 1132.7 | 1101.4 | 750.7 | 454.5 | 400.9 | 390.1 | 386.9 | 371.5 | 356.2 | 358.2 |
| 52.5° | 991.7 | 1198.2 | 1106.1 | 665.5 | 400.9 | 377.9 | 360.5 | 340.7 | 311.8 | 307.1 | 308.6 |
| 55° | 1085.9 | 1258.8 | 1094.0 | 560.8 | 355.8 | 348.6 | 322.2 | 298.4 | 295.2 | 291.2 | 291.8 |
| 57.5° | 1198.4 | 1324.1 | 1069.3 | 443.9 | 309.5 | 314.3 | 288.4 | 291.2 | 285.6 | 279.3 | 278.2 |
| 60° | 1321.6 | 1391.6 | 1026.0 | 337.3 | 261.8 | 271.4 | 279.7 | 279.5 | 277.9 | 272.8 | 271.0 |
| 62.5° | 1432.4 | 1436.0 | 940.7 | 258.4 | 219.9 | 238.2 | 260.9 | 260.7 | 259.3 | 256.4 | 255.2 |
| 65° | 1498.3 | 1429.3 | 798.6 | 203.5 | 185.3 | 210.8 | 235.3 | 237.1 | 237.3 | 237.1 | 237.1 |
| 67.5° | 1486.8 | 1350.5 | 603.4 | 162.0 | 156.8 | 183.1 | 209.9 | 212.4 | 214.2 | 214.6 | 215.1 |
| 70° | 1354.8 | 1177.6 | 393.4 | 129.3 | 131.4 | 158.6 | 185.9 | 188.4 | 190.0 | 191.8 | 192.7 |
| 72.5° | 1056.1 | 865.8 | 225.2 | 104.6 | 109.3 | 137.5 | 162.2 | 165.1 | 165.9 | 169.3 | 170.7 |
| 75° | 643.5 | 509.2 | 121.6 | 82.3 | 89.7 | 117.6 | 138.6 | 142.0 | 143.6 | 147.6 | 148.0 |
| 77.5° | 306.0 | 220.5 | 69.3 | 64.2 | 72.3 | 96.0 | 117.1 | 121.0 | 116.6 | 118.9 | 117.1 |
| 80° | 103.4 | 81.9 | 43.8 | 48.9 | 55.1 | 74.9 | 93.8 | 97.6 | 88.6 | 88.1 | 87.2 |
| 82.5° | 36.1 | 33.2 | 27.8 | 32.5 | 35.7 | 53.6 | 70.9 | 75.8 | 65.9 | 65.7 | 62.6 |
| 85° | 14.1 | 13.4 | 15.5 | 17.7 | 21.3 | 33.0 | 46.6 | 49.1 | 40.6 | 32.8 | 32.3 |
| 87.5° | 2.9 | 3.2 | 3.8 | 4.0 | 6.5 | 11.5 | 16.8 | 20.6 | 16.4 | 13.9 | 12.8 |
| 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)