

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: P881714

Luminaire Tested: **NVN-SB1B-730-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5499 lumens
Efficiency: N/A
Efficacy: 138.2 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

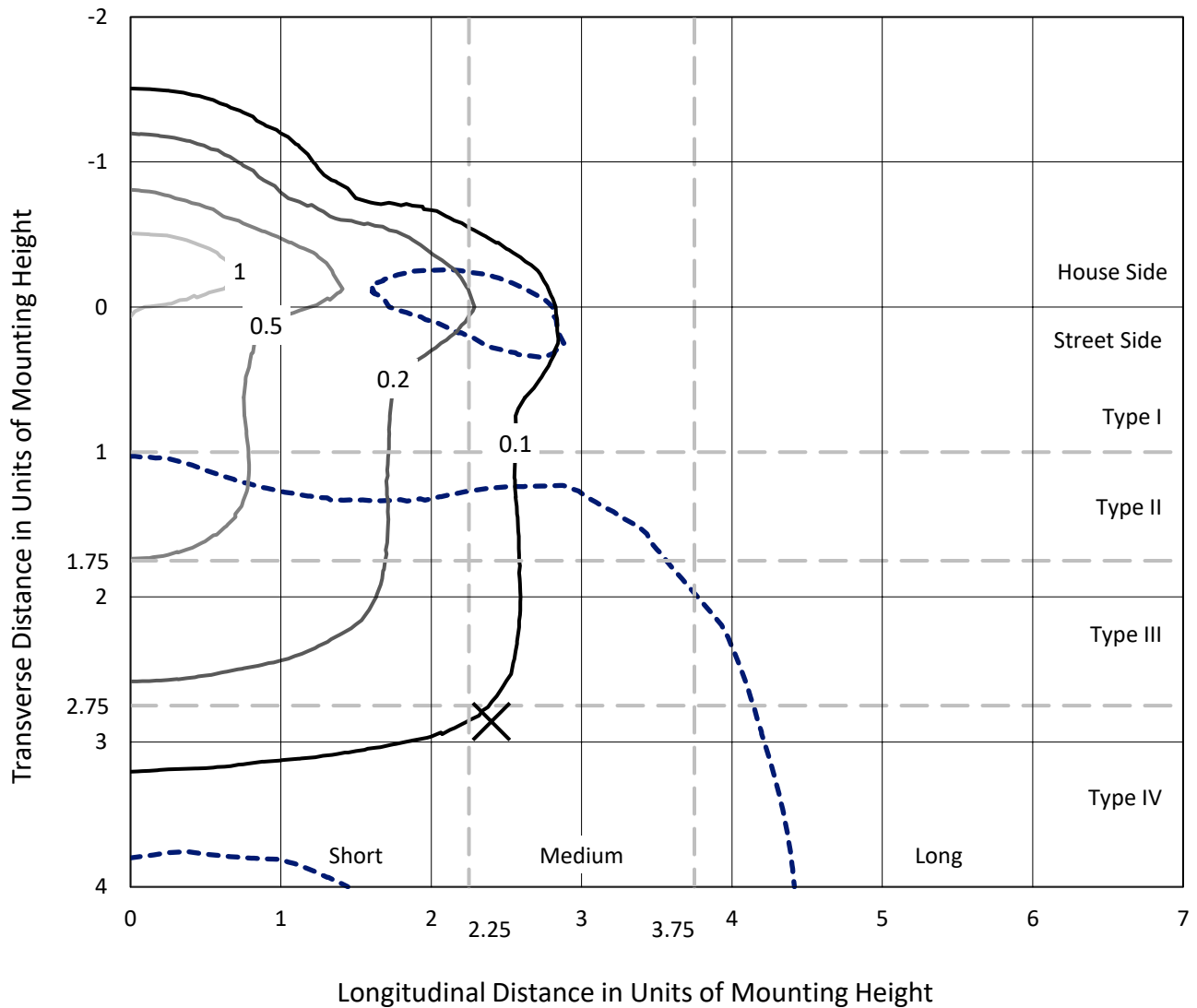
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

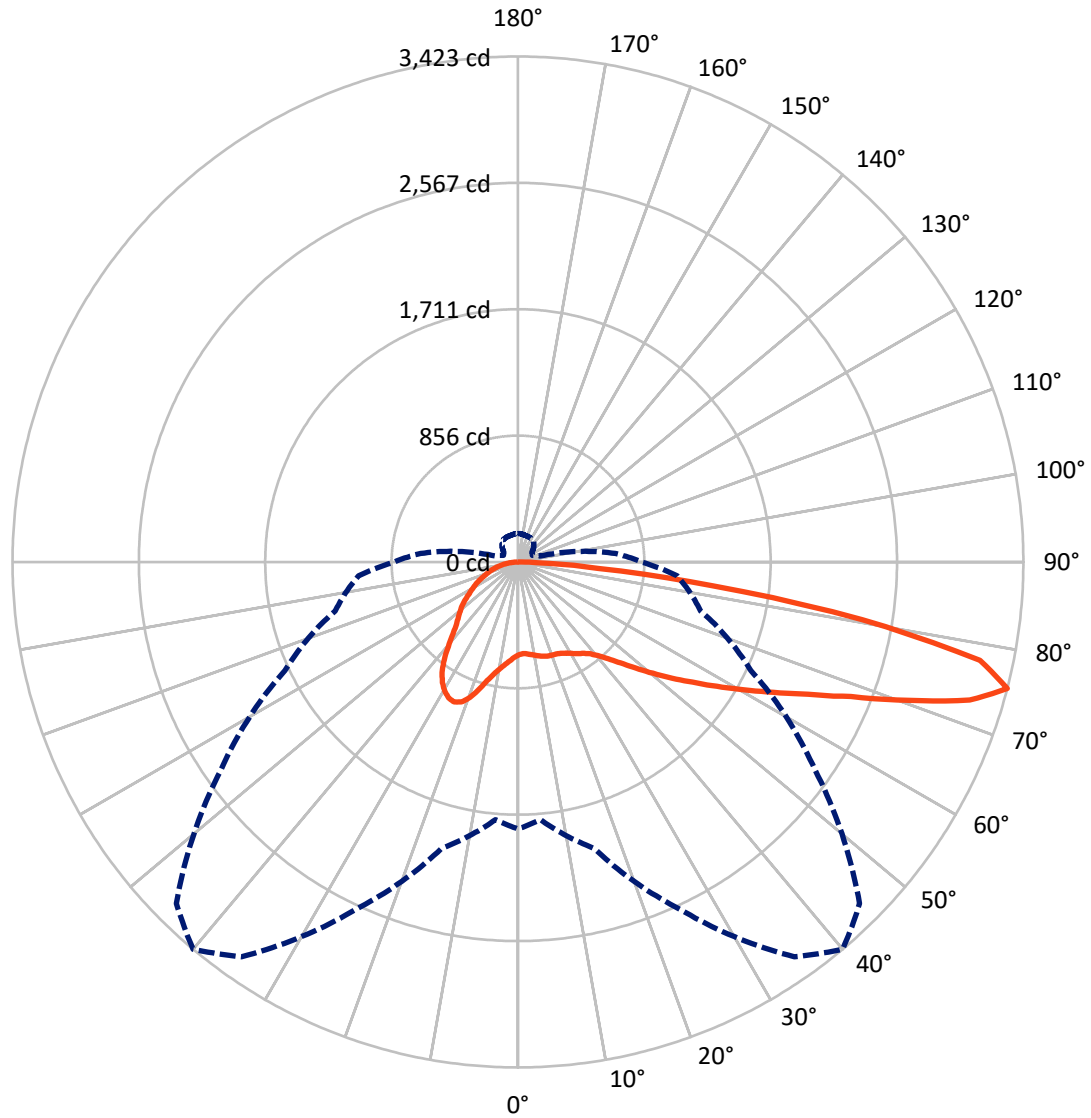
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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 | 1703.8 | 0.0 | 1703.8 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 3795.2 | 0.0 | 3795.2 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 5499.0 | 0.0 | 5499.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.8 | 1.1 |
| 10°-20° | 210.7 | 3.8 |
| 20°-30° | 384.8 | 7.0 |
| 30°-40° | 545.7 | 9.9 |
| 40°-50° | 736.9 | 13.4 |
| 50°-60° | 991.4 | 18.0 |
| 60°-70° | 1258.3 | 22.9 |
| 70°-80° | 1141.9 | 20.8 |
| 80°-90° | 166.5 | 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° | 5499.0 | 100.0 |
| 0°-180° | 5499.0 | 100.0 |

Coefficient of Utilization



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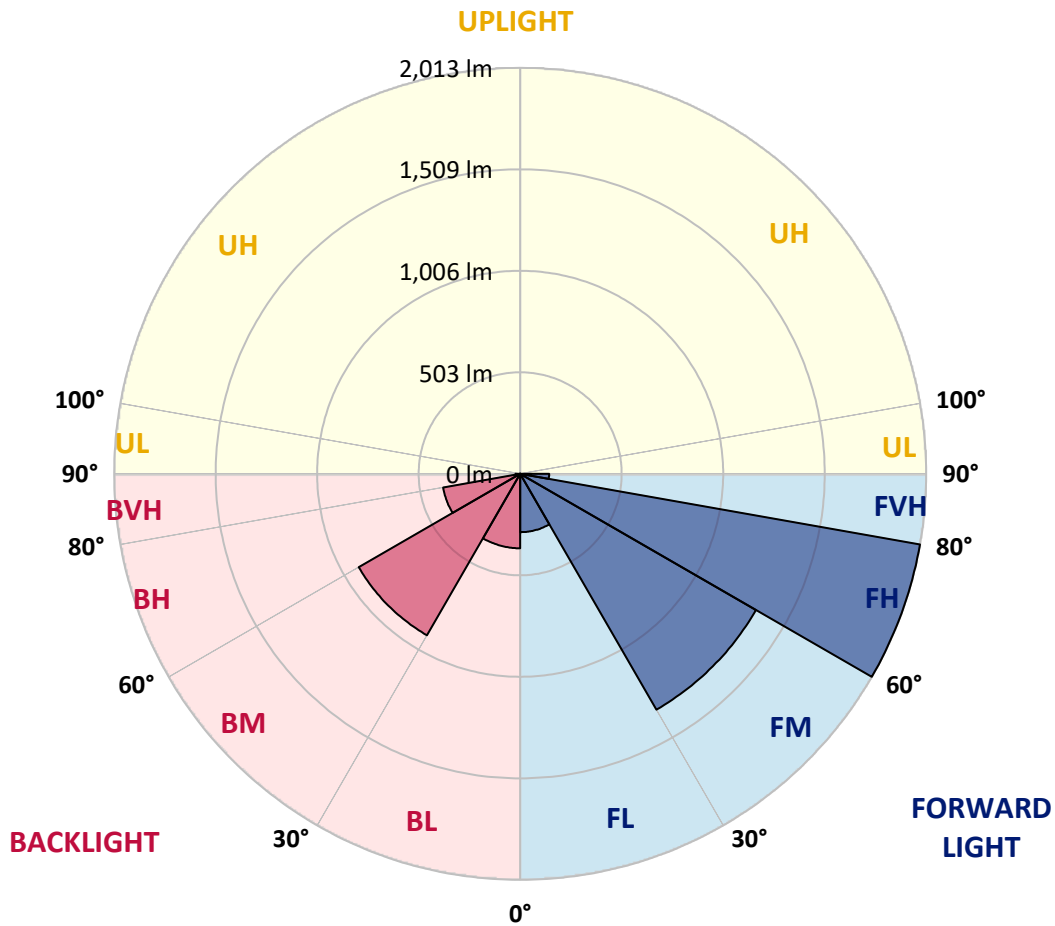
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 289.3 | 5.3 | | | |
| FM (30°-60°) | 1349.9 | 24.5 | | | |
| FH (60°-80°) | 2012.6 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 143.5 | 2.6 | | | G2/225 |
| BL (0°-30°) | 369.1 | 6.7 | B1/500 | | |
| BM (30°-60°) | 924.1 | 16.8 | B1/1000 | | |
| BH (60°-80°) | 387.7 | 7.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 22.9 | 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° | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 |
| 2.5° | 619.2 | 622.7 | 621.8 | 620.7 | 620.7 | 620.9 | 620.7 | 622.7 | 624.7 | 626.8 | 630.0 |
| 5° | 625.6 | 629.1 | 627.4 | 625.9 | 624.7 | 624.4 | 623.6 | 623.3 | 624.4 | 627.1 | 631.4 |
| 7.5° | 638.2 | 641.7 | 639.0 | 636.4 | 634.1 | 632.9 | 631.7 | 630.0 | 629.1 | 630.6 | 636.7 |
| 10° | 652.2 | 655.7 | 652.4 | 647.8 | 644.0 | 642.5 | 641.4 | 639.6 | 638.4 | 639.3 | 646.0 |
| 12.5° | 666.2 | 669.7 | 665.3 | 658.9 | 653.9 | 653.0 | 651.6 | 651.0 | 650.7 | 650.4 | 657.1 |
| 15° | 679.3 | 682.2 | 676.7 | 669.1 | 663.8 | 662.4 | 660.9 | 661.8 | 663.2 | 665.0 | 672.6 |
| 17.5° | 689.5 | 692.4 | 684.2 | 674.3 | 669.4 | 668.8 | 667.9 | 670.8 | 674.9 | 679.3 | 688.6 |
| 20° | 698.8 | 701.7 | 691.2 | 677.8 | 672.0 | 672.0 | 672.3 | 678.4 | 684.2 | 690.6 | 703.5 |
| 22.5° | 711.9 | 714.3 | 701.4 | 683.1 | 674.6 | 675.2 | 677.5 | 683.6 | 690.9 | 699.7 | 717.5 |
| 25° | 731.5 | 733.2 | 717.5 | 693.0 | 683.4 | 685.1 | 687.1 | 690.1 | 697.1 | 707.3 | 731.2 |
| 27.5° | 763.0 | 764.4 | 743.7 | 710.5 | 695.9 | 698.8 | 701.7 | 699.7 | 702.9 | 711.6 | 742.3 |
| 30° | 807.3 | 808.2 | 781.9 | 737.9 | 717.2 | 718.6 | 719.2 | 710.8 | 704.6 | 711.6 | 750.1 |
| 32.5° | 859.8 | 859.5 | 828.3 | 771.1 | 741.4 | 739.9 | 735.0 | 718.4 | 704.1 | 710.2 | 757.1 |
| 35° | 941.2 | 938.0 | 897.7 | 817.8 | 768.8 | 759.8 | 748.1 | 726.8 | 707.0 | 708.7 | 763.3 |
| 37.5° | 1075.9 | 1066.0 | 1010.3 | 894.2 | 809.6 | 786.6 | 769.4 | 740.5 | 713.4 | 708.1 | 770.6 |
| 40° | 1227.9 | 1215.3 | 1154.1 | 998.9 | 870.9 | 833.9 | 806.1 | 760.1 | 723.9 | 710.8 | 781.4 |
| 42.5° | 1408.1 | 1390.3 | 1324.4 | 1122.3 | 948.5 | 894.8 | 853.1 | 784.9 | 739.4 | 719.2 | 795.9 |
| 45° | 1629.5 | 1605.9 | 1512.5 | 1261.4 | 1046.2 | 974.7 | 919.0 | 822.5 | 763.0 | 735.6 | 817.8 |
| 47.5° | 1853.2 | 1859.0 | 1726.3 | 1420.7 | 1163.4 | 1073.3 | 1001.6 | 879.1 | 797.4 | 761.8 | 853.1 |
| 50° | 2090.9 | 2095.0 | 1939.0 | 1597.1 | 1296.4 | 1184.7 | 1094.3 | 942.4 | 845.2 | 799.1 | 905.9 |
| 52.5° | 2276.4 | 2277.0 | 2132.0 | 1781.7 | 1435.0 | 1307.2 | 1194.3 | 1014.7 | 900.6 | 848.7 | 976.2 |
| 55° | 2392.5 | 2391.0 | 2267.4 | 1956.5 | 1594.2 | 1435.8 | 1305.2 | 1096.9 | 968.3 | 907.1 | 1064.6 |
| 57.5° | 2476.8 | 2472.4 | 2360.7 | 2106.7 | 1764.0 | 1587.8 | 1430.6 | 1190.3 | 1048.2 | 976.5 | 1180.9 |
| 60° | 2508.9 | 2506.2 | 2424.0 | 2236.4 | 1942.5 | 1755.8 | 1575.3 | 1294.7 | 1138.9 | 1058.4 | 1330.6 |
| 62.5° | 2521.1 | 2526.1 | 2486.1 | 2362.2 | 2133.5 | 1941.9 | 1734.2 | 1419.5 | 1241.0 | 1151.2 | 1488.3 |
| 65° | 2564.3 | 2573.3 | 2565.1 | 2526.6 | 2349.3 | 2159.7 | 1945.1 | 1568.0 | 1352.4 | 1250.6 | 1653.1 |
| 67.5° | 2649.7 | 2658.8 | 2662.3 | 2723.5 | 2613.0 | 2431.3 | 2208.2 | 1752.9 | 1482.8 | 1353.9 | 1777.1 |
| 70° | 2647.7 | 2645.1 | 2706.9 | 2880.1 | 2943.1 | 2807.2 | 2562.8 | 1980.4 | 1638.3 | 1439.6 | 1792.8 |
| 72.5° | 2410.0 | 2389.0 | 2535.1 | 2878.4 | 3217.9 | 3199.8 | 2995.9 | 2273.8 | 1772.4 | 1450.1 | 1555.7 |
| 75° | 1808.0 | 1752.0 | 2010.1 | 2594.0 | 3263.7 | 3422.6 | 3271.3 | 2455.8 | 1740.6 | 1281.3 | 1082.6 |
| 77.5° | 773.2 | 716.9 | 1021.1 | 1920.3 | 2921.0 | 3199.5 | 3018.7 | 2142.5 | 1389.5 | 847.3 | 531.7 |
| 80° | 202.4 | 202.1 | 308.6 | 870.6 | 1986.5 | 2362.7 | 2072.8 | 1383.6 | 793.9 | 302.7 | 146.7 |
| 82.5° | 83.7 | 81.7 | 113.5 | 338.6 | 970.6 | 1325.9 | 1082.1 | 617.2 | 286.7 | 82.0 | 48.7 |
| 85° | 31.2 | 30.9 | 55.1 | 117.0 | 342.4 | 546.9 | 395.8 | 157.8 | 71.5 | 40.0 | 21.9 |
| 87.5° | 8.7 | 8.5 | 12.0 | 40.5 | 83.4 | 126.6 | 67.7 | 26.0 | 20.1 | 15.7 | 6.4 |
| 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° | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 | 628.8 |
| 2.5° | 630.9 | 632.3 | 634.9 | 637.0 | 639.6 | 642.5 | 646.6 | 649.2 | 651.9 | 653.6 | 652.4 |
| 5° | 633.5 | 636.7 | 643.4 | 650.1 | 658.0 | 665.3 | 673.7 | 679.9 | 684.8 | 686.3 | 686.9 |
| 7.5° | 639.3 | 644.6 | 655.9 | 667.3 | 679.9 | 691.8 | 704.1 | 714.6 | 723.0 | 726.2 | 726.5 |
| 10° | 649.5 | 656.5 | 672.6 | 688.6 | 705.2 | 723.6 | 739.4 | 754.5 | 766.5 | 771.4 | 771.7 |
| 12.5° | 662.4 | 671.1 | 692.1 | 714.3 | 737.3 | 762.7 | 783.1 | 801.8 | 816.6 | 823.4 | 823.4 |
| 15° | 679.0 | 690.4 | 717.2 | 746.9 | 780.8 | 816.1 | 842.0 | 862.7 | 879.4 | 887.5 | 886.9 |
| 17.5° | 697.1 | 712.2 | 746.1 | 791.0 | 839.4 | 885.8 | 916.1 | 931.3 | 948.5 | 956.4 | 956.1 |
| 20° | 714.6 | 733.2 | 781.6 | 847.0 | 911.4 | 960.7 | 985.2 | 989.3 | 990.5 | 991.4 | 993.7 |
| 22.5° | 732.6 | 757.7 | 826.3 | 917.6 | 986.7 | 1020.8 | 1024.3 | 1006.8 | 982.3 | 970.9 | 974.1 |
| 25° | 752.5 | 785.7 | 884.6 | 995.4 | 1051.4 | 1055.5 | 1028.7 | 986.1 | 939.7 | 918.4 | 921.6 |
| 27.5° | 771.7 | 818.1 | 954.6 | 1069.8 | 1098.1 | 1062.2 | 1004.5 | 944.1 | 888.1 | 865.6 | 868.3 |
| 30° | 791.0 | 855.1 | 1031.9 | 1134.8 | 1119.4 | 1045.6 | 966.3 | 898.9 | 842.6 | 819.0 | 821.6 |
| 32.5° | 810.5 | 898.3 | 1120.8 | 1181.8 | 1115.6 | 1010.3 | 918.7 | 848.1 | 798.6 | 773.8 | 777.0 |
| 35° | 832.7 | 951.4 | 1205.1 | 1207.5 | 1090.2 | 958.4 | 856.0 | 787.5 | 744.3 | 724.5 | 728.9 |
| 37.5° | 861.6 | 1018.8 | 1279.5 | 1213.9 | 1045.9 | 882.3 | 778.1 | 715.7 | 680.2 | 671.1 | 677.5 |
| 40° | 897.4 | 1099.8 | 1336.4 | 1203.7 | 980.3 | 789.8 | 693.0 | 643.1 | 623.0 | 625.0 | 632.0 |
| 42.5° | 944.1 | 1190.6 | 1376.3 | 1177.4 | 889.0 | 694.4 | 618.3 | 596.2 | 605.8 | 613.9 | 621.5 |
| 45° | 1004.8 | 1284.8 | 1401.1 | 1132.8 | 785.7 | 613.7 | 574.3 | 579.5 | 586.8 | 587.7 | 593.5 |
| 47.5° | 1082.3 | 1380.1 | 1417.5 | 1065.4 | 680.4 | 556.8 | 546.3 | 547.4 | 546.0 | 539.9 | 544.5 |
| 50° | 1179.2 | 1472.9 | 1432.0 | 976.2 | 590.9 | 521.2 | 507.2 | 503.1 | 483.0 | 463.2 | 465.8 |
| 52.5° | 1289.4 | 1558.0 | 1438.2 | 865.4 | 521.2 | 491.4 | 468.7 | 443.0 | 405.4 | 399.3 | 401.3 |
| 55° | 1411.9 | 1636.8 | 1422.4 | 729.1 | 462.6 | 453.2 | 418.8 | 387.9 | 383.8 | 378.6 | 379.4 |
| 57.5° | 1558.3 | 1721.7 | 1390.3 | 577.2 | 402.5 | 408.6 | 375.1 | 378.6 | 371.3 | 363.1 | 361.7 |
| 60° | 1718.5 | 1809.5 | 1334.1 | 438.7 | 340.4 | 352.9 | 363.7 | 363.4 | 361.4 | 354.7 | 352.3 |
| 62.5° | 1862.5 | 1867.2 | 1223.2 | 336.0 | 285.8 | 309.7 | 339.2 | 338.9 | 337.2 | 333.4 | 331.9 |
| 65° | 1948.3 | 1858.5 | 1038.3 | 264.5 | 240.9 | 274.2 | 306.0 | 308.3 | 308.6 | 308.3 | 308.3 |
| 67.5° | 1933.1 | 1756.1 | 784.6 | 210.6 | 203.9 | 238.0 | 273.0 | 276.2 | 278.5 | 279.1 | 279.7 |
| 70° | 1761.6 | 1531.2 | 511.6 | 168.0 | 170.9 | 206.2 | 241.8 | 245.0 | 247.0 | 249.4 | 250.5 |
| 72.5° | 1373.1 | 1125.8 | 292.8 | 135.9 | 142.0 | 178.8 | 210.9 | 214.7 | 215.8 | 220.2 | 222.0 |
| 75° | 836.8 | 662.1 | 158.1 | 107.0 | 116.7 | 152.8 | 180.2 | 184.6 | 186.7 | 191.9 | 192.5 |
| 77.5° | 397.8 | 286.7 | 90.1 | 83.4 | 93.9 | 124.8 | 152.2 | 157.2 | 151.7 | 154.6 | 152.2 |
| 80° | 134.5 | 106.5 | 56.9 | 63.6 | 71.7 | 97.4 | 121.9 | 126.9 | 115.2 | 114.6 | 113.5 |
| 82.5° | 47.0 | 43.2 | 36.2 | 42.3 | 46.4 | 69.7 | 92.2 | 98.6 | 85.7 | 85.5 | 81.4 |
| 85° | 18.4 | 17.5 | 20.1 | 23.0 | 27.7 | 42.9 | 60.7 | 63.9 | 52.8 | 42.6 | 42.0 |
| 87.5° | 3.8 | 4.1 | 5.0 | 5.2 | 8.5 | 14.9 | 21.9 | 26.8 | 21.3 | 18.1 | 16.6 |
| 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)