

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: P881877

Luminaire Tested: **NVN-SB1C-727-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881877
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-SB1C-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6731 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

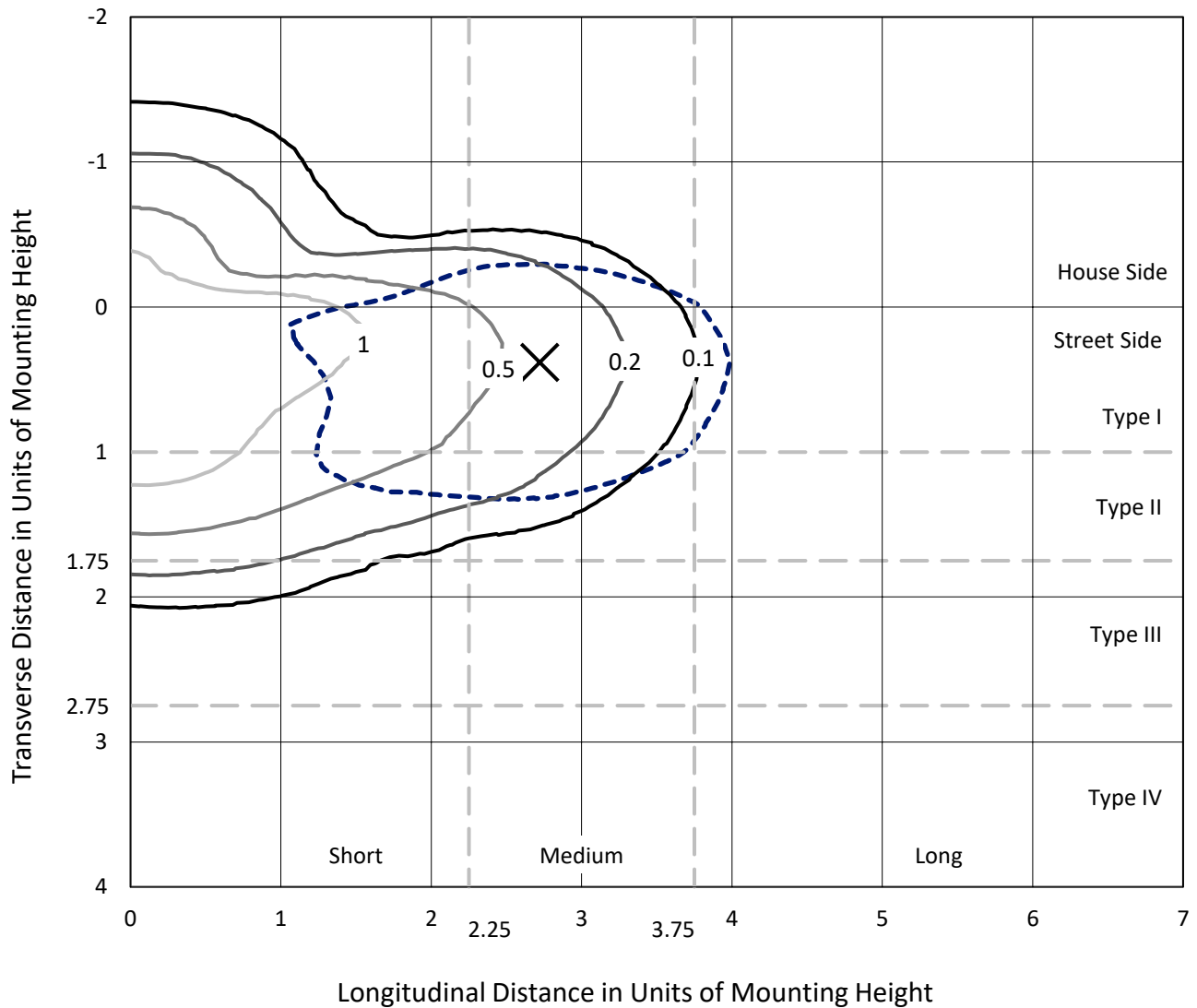
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

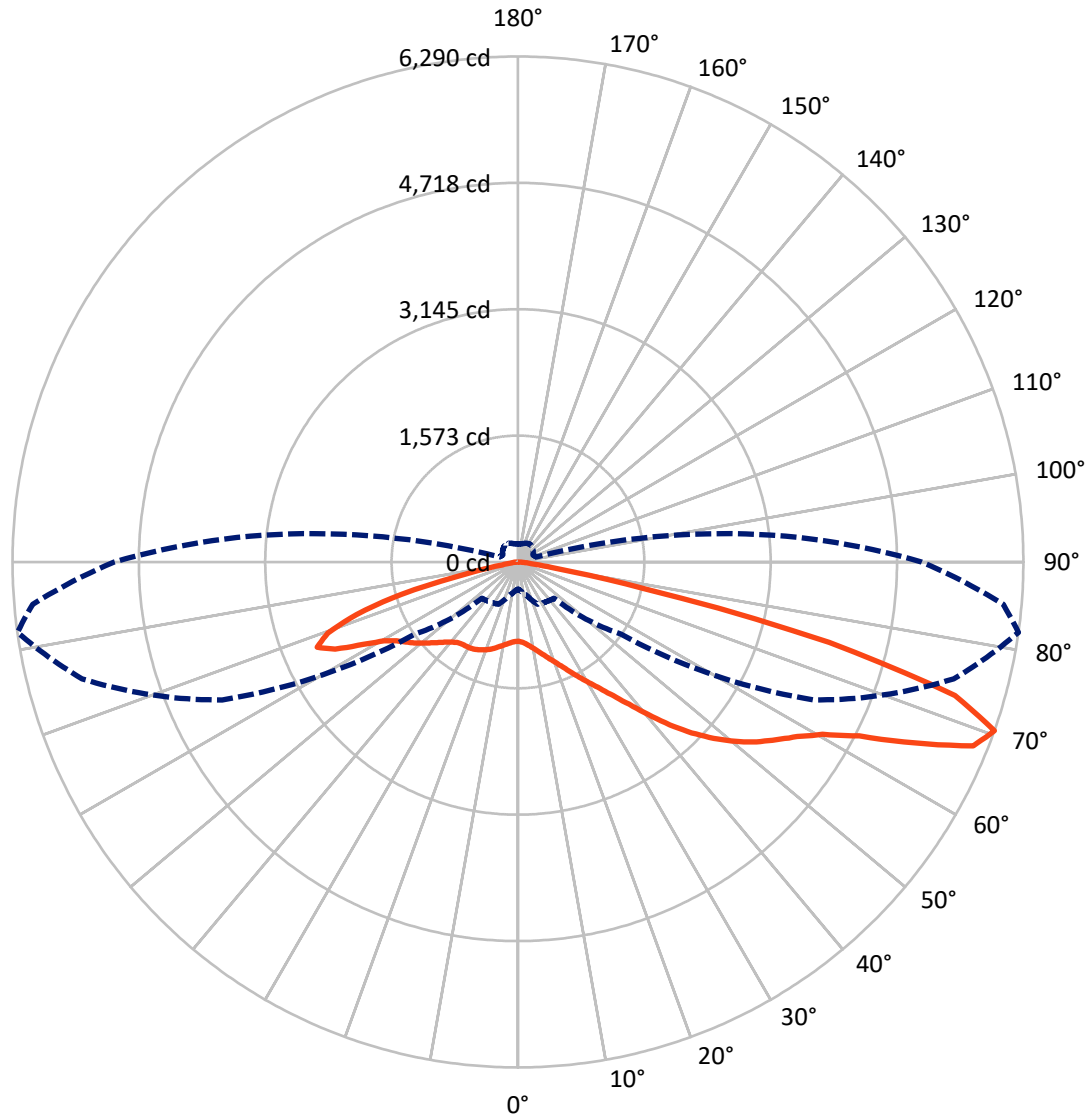
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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 | 1659.4 | 0.0 | 1659.4 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 5071.6 | 0.0 | 5071.6 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 6731.0 | 0.0 | 6731.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.2 | 1.4 |
| 10°-20° | 267.7 | 4.0 |
| 20°-30° | 447.8 | 6.7 |
| 30°-40° | 699.6 | 10.4 |
| 40°-50° | 1114.2 | 16.6 |
| 50°-60° | 1550.6 | 23.0 |
| 60°-70° | 1622.0 | 24.1 |
| 70°-80° | 847.7 | 12.6 |
| 80°-90° | 88.0 | 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° | 6731.0 | 100.0 |
| 0°-180° | 6731.0 | 100.0 |

Coefficient of Utilization



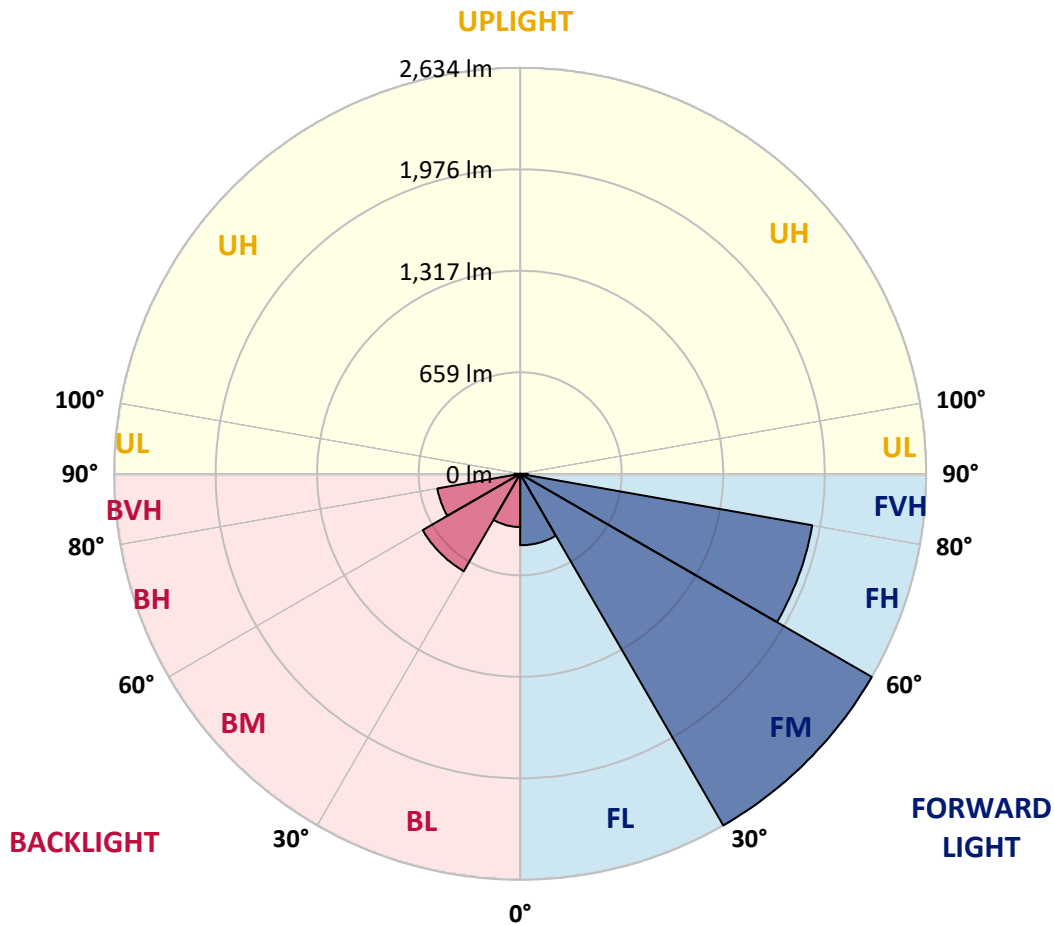
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 463.5 | 6.9 | | | |
| FM (30°-60°) | 2634.4 | 39.1 | | | |
| FH (60°-80°) | 1924.4 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 49.3 | 0.7 | | | G1/100 |
| BL (0°-30°) | 345.2 | 5.1 | B1/500 | | |
| BM (30°-60°) | 730.0 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 545.3 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 38.8 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 |
| 2.5° | 1010.4 | 1016.1 | 1014.4 | 1012.6 | 1012.6 | 1010.1 | 1009.7 | 1006.1 | 1003.3 | 998.6 | 997.6 |
| 5° | 1023.3 | 1029.4 | 1028.6 | 1030.1 | 1034.7 | 1035.8 | 1036.9 | 1034.7 | 1029.0 | 1023.3 | 1020.8 |
| 7.5° | 1011.9 | 1018.6 | 1020.8 | 1029.4 | 1043.6 | 1056.5 | 1066.1 | 1070.1 | 1064.7 | 1056.5 | 1052.6 |
| 10° | 973.3 | 980.8 | 988.3 | 1008.6 | 1034.0 | 1064.4 | 1090.1 | 1105.4 | 1104.4 | 1096.5 | 1089.7 |
| 12.5° | 895.1 | 902.9 | 919.0 | 958.6 | 1005.1 | 1058.6 | 1106.5 | 1138.6 | 1149.7 | 1144.0 | 1132.2 |
| 15° | 832.6 | 839.3 | 851.5 | 892.2 | 952.6 | 1034.0 | 1112.6 | 1175.1 | 1203.3 | 1200.1 | 1185.8 |
| 17.5° | 830.8 | 833.6 | 841.1 | 860.4 | 906.8 | 995.4 | 1106.1 | 1210.8 | 1264.7 | 1264.4 | 1246.5 |
| 20° | 862.2 | 863.3 | 867.6 | 871.5 | 897.9 | 966.1 | 1089.7 | 1240.4 | 1333.7 | 1333.7 | 1314.4 |
| 22.5° | 905.8 | 905.1 | 909.3 | 905.8 | 918.6 | 963.6 | 1079.4 | 1266.5 | 1410.4 | 1416.2 | 1391.9 |
| 25° | 971.1 | 967.6 | 966.5 | 958.3 | 960.8 | 986.8 | 1090.8 | 1296.2 | 1501.5 | 1513.3 | 1483.0 |
| 27.5° | 1058.3 | 1052.6 | 1048.6 | 1029.7 | 1023.3 | 1034.7 | 1125.8 | 1331.9 | 1603.0 | 1623.3 | 1584.7 |
| 30° | 1171.9 | 1161.5 | 1155.8 | 1122.9 | 1099.7 | 1101.5 | 1178.6 | 1379.4 | 1709.0 | 1741.9 | 1693.0 |
| 32.5° | 1326.9 | 1310.8 | 1295.4 | 1241.5 | 1199.0 | 1185.1 | 1246.9 | 1445.1 | 1824.0 | 1876.5 | 1813.7 |
| 35° | 1500.5 | 1487.6 | 1471.2 | 1387.9 | 1322.6 | 1290.4 | 1339.0 | 1536.9 | 1958.7 | 2041.9 | 1960.1 |
| 37.5° | 1667.6 | 1656.5 | 1664.4 | 1552.2 | 1468.0 | 1421.2 | 1459.7 | 1660.1 | 2124.8 | 2247.6 | 2143.7 |
| 40° | 1840.5 | 1831.9 | 1833.0 | 1725.8 | 1627.6 | 1575.1 | 1606.2 | 1814.8 | 2315.1 | 2492.3 | 2364.4 |
| 42.5° | 2028.3 | 2021.9 | 2000.5 | 1905.5 | 1795.1 | 1746.2 | 1774.8 | 1993.3 | 2519.4 | 2770.9 | 2606.6 |
| 45° | 2238.7 | 2234.8 | 2214.8 | 2105.8 | 1979.4 | 1924.4 | 1963.0 | 2190.5 | 2724.8 | 3033.1 | 2849.8 |
| 47.5° | 2420.5 | 2423.7 | 2421.2 | 2329.4 | 2198.4 | 2117.6 | 2163.7 | 2396.2 | 2915.9 | 3279.5 | 3083.1 |
| 50° | 2508.0 | 2524.8 | 2549.4 | 2520.9 | 2439.4 | 2357.3 | 2366.2 | 2594.8 | 3098.1 | 3510.6 | 3306.6 |
| 52.5° | 2462.3 | 2494.1 | 2561.2 | 2607.0 | 2638.4 | 2621.2 | 2597.3 | 2792.0 | 3269.5 | 3719.2 | 3518.1 |
| 55° | 2291.9 | 2336.6 | 2448.0 | 2558.4 | 2718.7 | 2843.4 | 2874.8 | 3010.5 | 3436.6 | 3902.7 | 3718.1 |
| 57.5° | 1981.6 | 2054.1 | 2154.1 | 2377.3 | 2647.3 | 2950.9 | 3198.4 | 3313.8 | 3613.8 | 4098.8 | 3927.4 |
| 60° | 1449.4 | 1546.5 | 1670.8 | 2003.0 | 2397.3 | 2893.4 | 3473.8 | 3779.5 | 3865.6 | 4352.8 | 4199.9 |
| 62.5° | 927.6 | 987.6 | 1101.9 | 1414.7 | 1868.0 | 2598.7 | 3558.1 | 4361.7 | 4292.4 | 4769.2 | 4608.5 |
| 65° | 635.0 | 673.6 | 778.3 | 954.0 | 1207.6 | 1934.4 | 3332.4 | 4798.2 | 4970.3 | 5429.3 | 5307.1 |
| 67.5° | 461.5 | 490.7 | 580.0 | 734.0 | 786.8 | 1144.7 | 2585.9 | 4778.2 | 5629.3 | 6109.3 | 5919.3 |
| 70° | 336.5 | 357.2 | 432.2 | 580.0 | 605.4 | 636.8 | 1566.5 | 4061.7 | 5615.0 | 6290.0 | 6062.5 |
| 72.5° | 249.3 | 263.6 | 313.9 | 450.0 | 490.0 | 430.0 | 775.4 | 2952.0 | 4825.0 | 5689.3 | 5506.8 |
| 75° | 180.4 | 191.1 | 228.2 | 344.3 | 392.2 | 327.5 | 386.8 | 1725.1 | 3365.6 | 4002.0 | 4034.2 |
| 77.5° | 137.9 | 146.1 | 170.4 | 252.2 | 313.9 | 245.7 | 240.0 | 793.6 | 1595.8 | 1603.7 | 1693.7 |
| 80° | 110.7 | 116.1 | 129.3 | 177.5 | 240.7 | 183.9 | 156.4 | 320.4 | 504.3 | 426.8 | 447.9 |
| 82.5° | 81.4 | 90.4 | 109.3 | 124.7 | 172.2 | 126.8 | 95.4 | 161.8 | 191.8 | 165.0 | 166.4 |
| 85° | 46.4 | 52.5 | 66.1 | 89.3 | 110.0 | 77.5 | 54.6 | 71.8 | 89.3 | 73.2 | 65.4 |
| 87.5° | 16.4 | 21.4 | 23.2 | 35.0 | 47.9 | 32.1 | 21.1 | 20.7 | 29.3 | 21.8 | 18.2 |
| 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° | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 | 986.8 |
| 2.5° | 994.0 | 992.2 | 985.1 | 975.4 | 965.4 | 955.8 | 952.6 | 945.8 | 941.1 | 938.6 | 941.5 |
| 5° | 1014.0 | 1008.3 | 991.5 | 970.1 | 947.6 | 923.3 | 906.1 | 890.4 | 879.0 | 868.3 | 872.6 |
| 7.5° | 1042.6 | 1032.6 | 1003.6 | 966.1 | 926.1 | 885.8 | 855.8 | 832.9 | 817.6 | 807.6 | 809.7 |
| 10° | 1075.8 | 1060.4 | 1016.1 | 960.1 | 898.3 | 840.4 | 805.1 | 785.4 | 775.8 | 770.4 | 771.8 |
| 12.5° | 1114.0 | 1092.2 | 1029.0 | 946.1 | 855.8 | 789.7 | 765.4 | 759.7 | 760.0 | 760.4 | 761.1 |
| 15° | 1161.1 | 1130.8 | 1039.4 | 915.8 | 800.4 | 750.8 | 746.5 | 755.8 | 765.4 | 770.0 | 769.7 |
| 17.5° | 1214.4 | 1171.5 | 1041.1 | 865.8 | 746.1 | 725.8 | 739.3 | 759.3 | 774.0 | 780.4 | 781.8 |
| 20° | 1271.5 | 1212.9 | 1028.3 | 795.1 | 701.5 | 705.4 | 729.7 | 755.4 | 771.5 | 779.7 | 781.8 |
| 22.5° | 1336.9 | 1257.2 | 997.6 | 720.8 | 665.0 | 683.3 | 711.8 | 736.8 | 753.6 | 761.8 | 764.0 |
| 25° | 1411.5 | 1306.9 | 949.3 | 658.3 | 633.6 | 658.3 | 686.8 | 707.5 | 721.1 | 728.6 | 730.8 |
| 27.5° | 1494.4 | 1358.7 | 885.1 | 608.6 | 606.1 | 632.5 | 656.1 | 672.2 | 679.3 | 685.0 | 687.2 |
| 30° | 1577.6 | 1405.8 | 807.2 | 571.1 | 582.2 | 607.2 | 624.0 | 631.1 | 633.3 | 634.3 | 636.8 |
| 32.5° | 1667.6 | 1446.5 | 725.4 | 540.0 | 559.3 | 582.5 | 592.5 | 595.8 | 585.8 | 579.0 | 581.1 |
| 35° | 1776.5 | 1490.1 | 645.4 | 515.4 | 536.8 | 556.8 | 560.0 | 557.2 | 545.4 | 531.5 | 532.2 |
| 37.5° | 1911.2 | 1544.4 | 581.5 | 497.9 | 515.7 | 529.0 | 525.0 | 524.3 | 525.4 | 509.0 | 510.0 |
| 40° | 2076.2 | 1615.1 | 534.7 | 484.3 | 498.6 | 501.5 | 490.4 | 496.5 | 501.8 | 476.8 | 477.5 |
| 42.5° | 2259.4 | 1700.5 | 505.0 | 475.0 | 484.3 | 477.5 | 460.4 | 467.2 | 466.5 | 433.6 | 433.2 |
| 45° | 2446.2 | 1793.3 | 494.7 | 468.2 | 471.1 | 457.5 | 438.6 | 440.4 | 425.4 | 395.7 | 396.8 |
| 47.5° | 2632.0 | 1893.0 | 501.1 | 462.5 | 454.7 | 439.3 | 424.7 | 416.8 | 394.7 | 372.5 | 372.5 |
| 50° | 2814.1 | 1997.6 | 524.7 | 451.1 | 432.2 | 423.2 | 412.5 | 398.6 | 375.0 | 356.1 | 354.7 |
| 52.5° | 2983.0 | 2103.0 | 551.1 | 432.2 | 404.0 | 409.3 | 402.5 | 386.5 | 363.2 | 344.0 | 344.3 |
| 55° | 3143.1 | 2208.4 | 561.5 | 406.1 | 377.5 | 397.2 | 393.2 | 363.6 | 335.7 | 320.0 | 318.6 |
| 57.5° | 3317.4 | 2335.1 | 550.0 | 372.9 | 356.1 | 383.2 | 368.2 | 335.4 | 319.3 | 307.5 | 306.4 |
| 60° | 3558.8 | 2534.1 | 525.4 | 331.8 | 335.7 | 362.5 | 336.8 | 323.2 | 305.7 | 292.5 | 291.8 |
| 62.5° | 3959.9 | 2905.2 | 485.7 | 291.1 | 311.8 | 331.8 | 321.8 | 308.2 | 290.4 | 277.5 | 277.5 |
| 65° | 4552.8 | 3420.9 | 411.1 | 259.3 | 285.0 | 301.8 | 305.7 | 292.2 | 273.6 | 260.0 | 260.7 |
| 67.5° | 5052.8 | 3744.5 | 311.1 | 232.9 | 257.5 | 277.5 | 288.6 | 275.4 | 255.7 | 242.5 | 242.9 |
| 70° | 5025.3 | 3509.5 | 237.5 | 206.8 | 233.2 | 253.6 | 267.9 | 257.5 | 236.4 | 223.9 | 225.0 |
| 72.5° | 4463.5 | 2935.9 | 192.2 | 180.4 | 208.6 | 228.6 | 245.7 | 237.9 | 216.4 | 204.3 | 204.3 |
| 75° | 3279.1 | 2084.1 | 153.6 | 153.6 | 177.9 | 202.5 | 221.4 | 216.4 | 196.8 | 188.2 | 185.7 |
| 77.5° | 1382.2 | 874.3 | 120.4 | 127.5 | 147.9 | 173.9 | 197.5 | 199.3 | 182.2 | 192.9 | 175.0 |
| 80° | 367.5 | 241.1 | 91.8 | 100.4 | 116.1 | 143.6 | 171.8 | 171.1 | 152.5 | 142.5 | 132.5 |
| 82.5° | 140.0 | 95.0 | 65.4 | 70.7 | 83.9 | 110.0 | 136.1 | 140.4 | 121.8 | 105.4 | 105.4 |
| 85° | 53.9 | 40.7 | 40.4 | 42.5 | 48.9 | 72.9 | 102.9 | 106.4 | 91.8 | 77.9 | 80.4 |
| 87.5° | 13.9 | 12.1 | 15.0 | 14.3 | 22.5 | 38.9 | 58.9 | 61.1 | 56.1 | 32.5 | 46.4 |
| 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)