

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: P961968

Luminaire Tested: **NVN-SB2B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2B-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12100.1 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

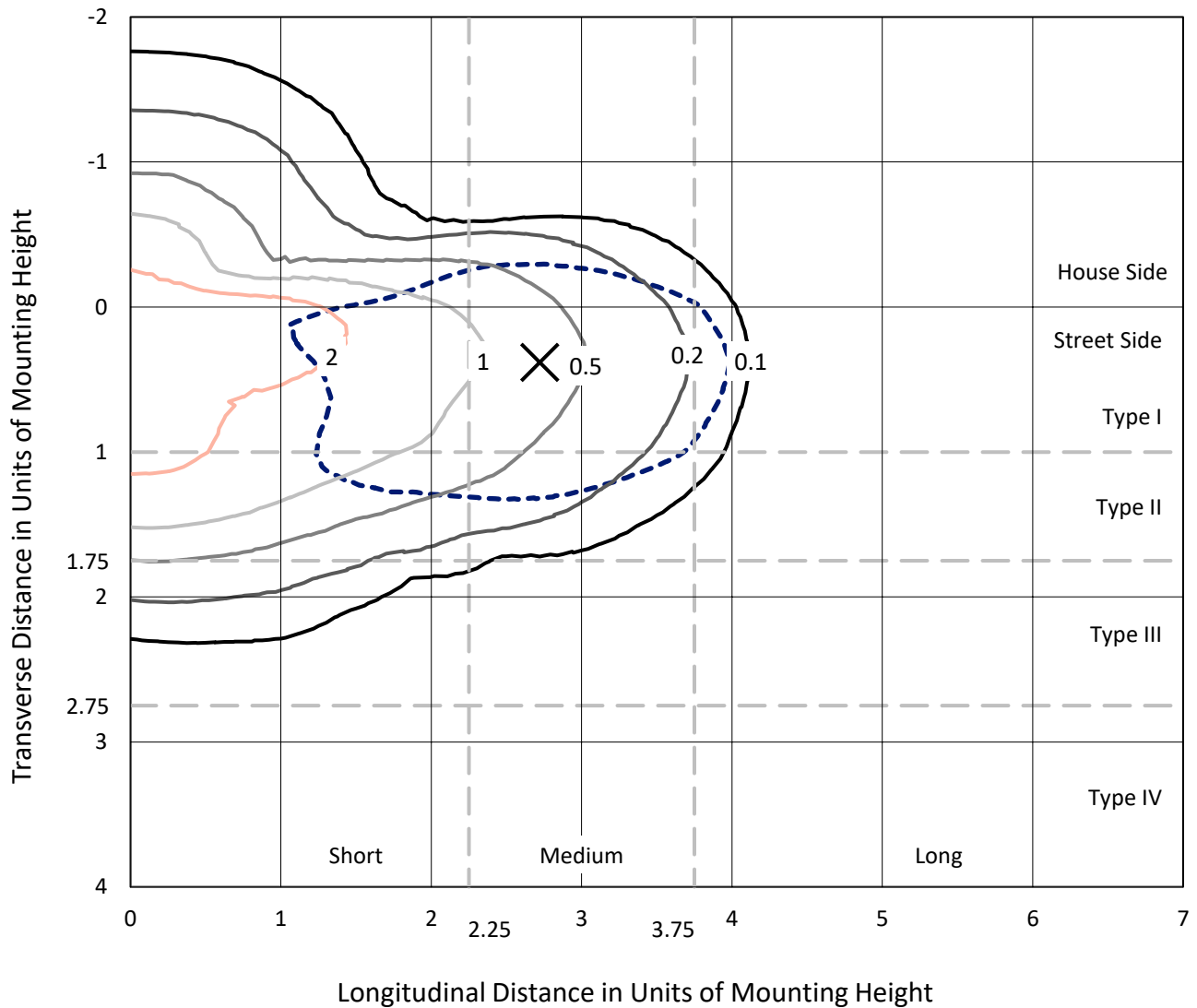
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

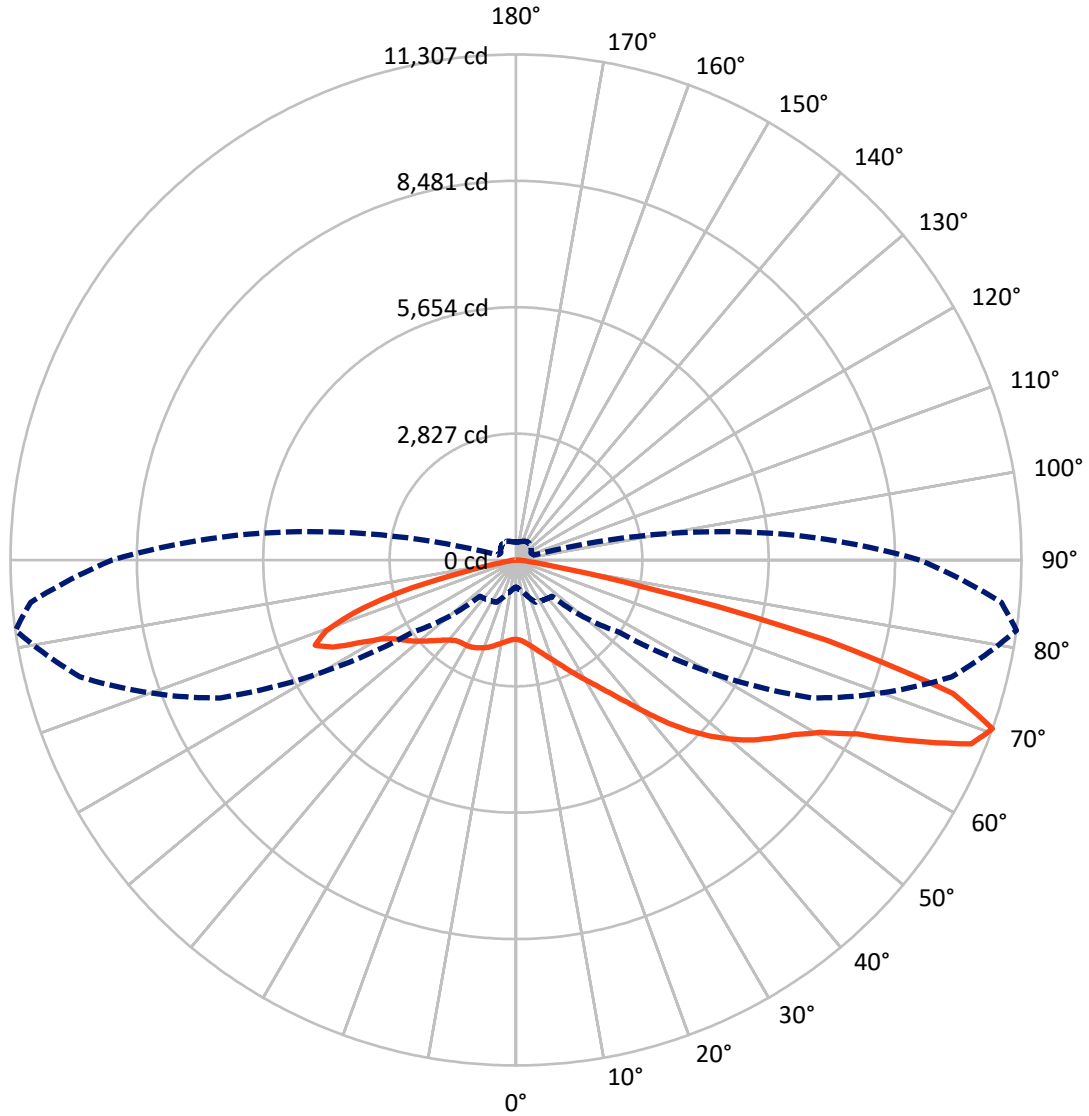
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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 | 2983.0 | 0.0 | 2983.0 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 9117.2 | 0.0 | 9117.2 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 12100.1 | 0.0 | 12100.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 167.5 | 1.4 |
| 10°-20° | 481.2 | 4.0 |
| 20°-30° | 805.1 | 6.7 |
| 30°-40° | 1257.7 | 10.4 |
| 40°-50° | 2003.1 | 16.6 |
| 50°-60° | 2787.5 | 23.0 |
| 60°-70° | 2915.8 | 24.1 |
| 70°-80° | 1524.0 | 12.6 |
| 80°-90° | 158.2 | 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° | 12100.1 | 100.0 |
| 0°-180° | 12100.1 | 100.0 |

Coefficient of Utilization

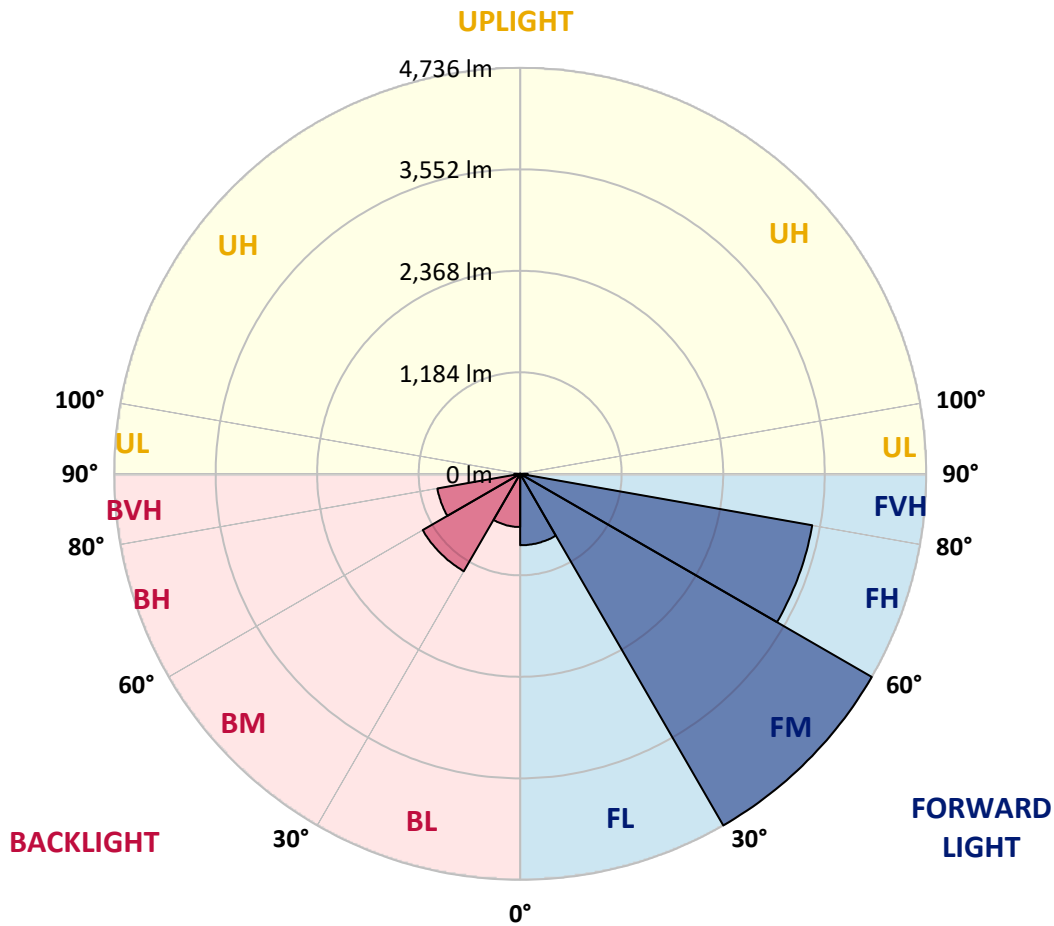


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 833.2 | 6.9 | | | |
| FM (30°-60°) | 4735.9 | 39.1 | | | |
| FH (60°-80°) | 3459.5 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 88.6 | 0.7 | | | G1/100 |
| BL (0°-30°) | 620.6 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1312.4 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 980.4 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 69.7 | 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° | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 |
| 2.5° | 1816.4 | 1826.7 | 1823.5 | 1820.3 | 1820.3 | 1815.8 | 1815.2 | 1808.7 | 1803.6 | 1795.2 | 1793.3 |
| 5° | 1839.6 | 1850.4 | 1849.2 | 1851.8 | 1860.1 | 1862.0 | 1864.0 | 1860.1 | 1849.8 | 1839.6 | 1835.1 |
| 7.5° | 1819.0 | 1831.2 | 1835.1 | 1850.4 | 1876.2 | 1899.2 | 1916.5 | 1923.6 | 1914.0 | 1899.2 | 1892.2 |
| 10° | 1749.7 | 1763.1 | 1776.6 | 1813.2 | 1858.7 | 1913.4 | 1959.6 | 1987.2 | 1985.2 | 1971.2 | 1959.0 |
| 12.5° | 1609.0 | 1623.2 | 1652.0 | 1723.3 | 1806.8 | 1903.1 | 1989.1 | 2046.9 | 2066.8 | 2056.6 | 2035.3 |
| 15° | 1496.7 | 1508.9 | 1530.7 | 1603.9 | 1712.4 | 1858.7 | 2000.1 | 2112.4 | 2163.2 | 2157.3 | 2131.7 |
| 17.5° | 1493.4 | 1498.6 | 1512.1 | 1546.7 | 1630.2 | 1789.4 | 1988.5 | 2176.6 | 2273.6 | 2272.9 | 2240.9 |
| 20° | 1549.9 | 1551.8 | 1559.5 | 1566.6 | 1614.2 | 1736.8 | 1959.0 | 2229.9 | 2397.5 | 2397.5 | 2362.8 |
| 22.5° | 1628.3 | 1627.0 | 1634.7 | 1628.3 | 1651.4 | 1732.2 | 1940.3 | 2276.7 | 2535.5 | 2545.8 | 2502.1 |
| 25° | 1745.8 | 1739.3 | 1737.5 | 1722.6 | 1727.1 | 1774.1 | 1960.8 | 2330.0 | 2699.2 | 2720.5 | 2665.8 |
| 27.5° | 1902.4 | 1892.2 | 1885.1 | 1851.0 | 1839.6 | 1860.1 | 2023.8 | 2394.3 | 2881.6 | 2918.2 | 2848.9 |
| 30° | 2106.6 | 2088.0 | 2077.8 | 2018.6 | 1976.9 | 1980.1 | 2118.8 | 2479.7 | 3072.3 | 3131.4 | 3043.4 |
| 32.5° | 2385.3 | 2356.4 | 2328.8 | 2231.8 | 2155.4 | 2130.4 | 2241.5 | 2597.8 | 3279.1 | 3373.4 | 3260.4 |
| 35° | 2697.3 | 2674.2 | 2644.7 | 2495.1 | 2377.6 | 2319.8 | 2407.1 | 2762.8 | 3521.1 | 3670.7 | 3523.6 |
| 37.5° | 2997.8 | 2977.9 | 2992.1 | 2790.5 | 2638.9 | 2554.8 | 2624.1 | 2984.3 | 3819.7 | 4040.6 | 3853.7 |
| 40° | 3308.6 | 3293.1 | 3295.1 | 3102.5 | 2925.9 | 2831.6 | 2887.3 | 3262.4 | 4161.9 | 4480.4 | 4250.5 |
| 42.5° | 3646.3 | 3634.8 | 3596.2 | 3425.4 | 3227.0 | 3139.1 | 3190.4 | 3583.4 | 4529.2 | 4981.2 | 4685.8 |
| 45° | 4024.5 | 4017.4 | 3981.4 | 3785.6 | 3558.3 | 3459.5 | 3528.8 | 3937.7 | 4898.4 | 5452.4 | 5123.1 |
| 47.5° | 4351.3 | 4357.1 | 4352.6 | 4187.5 | 3951.9 | 3806.8 | 3889.7 | 4307.7 | 5241.8 | 5895.5 | 5542.3 |
| 50° | 4508.6 | 4538.8 | 4583.1 | 4531.7 | 4385.4 | 4237.7 | 4253.6 | 4664.6 | 5569.2 | 6310.8 | 5944.3 |
| 52.5° | 4426.4 | 4483.6 | 4604.3 | 4686.4 | 4743.0 | 4712.1 | 4669.1 | 5019.0 | 5877.5 | 6685.9 | 6324.4 |
| 55° | 4120.1 | 4200.4 | 4400.7 | 4599.1 | 4887.4 | 5111.5 | 5167.9 | 5412.0 | 6178.0 | 7015.8 | 6683.9 |
| 57.5° | 3562.2 | 3692.6 | 3872.3 | 4273.6 | 4759.0 | 5304.8 | 5749.7 | 5957.1 | 6496.4 | 7368.3 | 7060.2 |
| 60° | 2605.5 | 2780.1 | 3003.6 | 3600.7 | 4309.5 | 5201.4 | 6244.7 | 6794.3 | 6949.1 | 7824.8 | 7550.0 |
| 62.5° | 1667.5 | 1775.3 | 1980.8 | 2543.2 | 3358.0 | 4671.6 | 6396.3 | 7840.9 | 7716.4 | 8573.5 | 8284.6 |
| 65° | 1141.6 | 1210.9 | 1399.0 | 1714.9 | 2170.8 | 3477.4 | 5990.5 | 8625.5 | 8935.0 | 9760.0 | 9540.5 |
| 67.5° | 829.5 | 882.2 | 1042.7 | 1319.5 | 1414.5 | 2057.8 | 4648.6 | 8589.6 | 10119.6 | 10982.6 | 10640.9 |
| 70° | 604.9 | 642.1 | 776.9 | 1042.7 | 1088.3 | 1144.8 | 2816.1 | 7301.6 | 10093.9 | 11307.4 | 10898.4 |
| 72.5° | 448.1 | 473.9 | 564.4 | 809.0 | 880.9 | 773.1 | 1393.9 | 5306.6 | 8673.7 | 10227.4 | 9899.3 |
| 75° | 324.2 | 343.5 | 410.3 | 619.0 | 705.0 | 588.8 | 695.4 | 3101.1 | 6050.2 | 7194.4 | 7252.2 |
| 77.5° | 247.8 | 262.6 | 306.3 | 453.3 | 564.4 | 441.8 | 431.4 | 1426.7 | 2868.8 | 2882.9 | 3044.7 |
| 80° | 199.1 | 208.7 | 232.5 | 319.1 | 432.8 | 330.7 | 281.3 | 575.9 | 906.6 | 767.3 | 805.1 |
| 82.5° | 146.4 | 162.5 | 196.5 | 224.1 | 309.4 | 228.0 | 171.5 | 290.9 | 344.8 | 296.6 | 299.2 |
| 85° | 83.4 | 94.4 | 118.8 | 160.5 | 197.7 | 139.3 | 98.2 | 129.0 | 160.5 | 131.6 | 117.5 |
| 87.5° | 29.5 | 38.5 | 41.7 | 62.9 | 86.0 | 57.8 | 37.9 | 37.2 | 52.7 | 39.2 | 32.7 |
| 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° | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 | 1774.1 |
| 2.5° | 1786.9 | 1783.7 | 1770.8 | 1753.5 | 1735.5 | 1718.2 | 1712.4 | 1700.2 | 1691.9 | 1687.4 | 1692.5 |
| 5° | 1822.9 | 1812.5 | 1782.4 | 1743.8 | 1703.4 | 1659.8 | 1628.9 | 1600.6 | 1580.1 | 1560.9 | 1568.6 |
| 7.5° | 1874.2 | 1856.2 | 1804.2 | 1736.8 | 1664.9 | 1592.3 | 1538.4 | 1497.3 | 1469.6 | 1451.7 | 1455.6 |
| 10° | 1933.9 | 1906.3 | 1826.7 | 1725.9 | 1614.8 | 1510.7 | 1447.2 | 1411.9 | 1394.6 | 1385.0 | 1387.5 |
| 12.5° | 2002.6 | 1963.5 | 1849.8 | 1700.9 | 1538.4 | 1419.6 | 1376.0 | 1365.7 | 1366.3 | 1366.9 | 1368.3 |
| 15° | 2087.3 | 2032.8 | 1868.4 | 1646.3 | 1438.9 | 1349.6 | 1341.9 | 1358.6 | 1376.0 | 1384.3 | 1383.6 |
| 17.5° | 2183.0 | 2106.0 | 1871.6 | 1556.4 | 1341.3 | 1304.7 | 1329.1 | 1365.0 | 1391.3 | 1402.9 | 1405.5 |
| 20° | 2285.8 | 2180.5 | 1848.5 | 1429.3 | 1261.1 | 1268.1 | 1311.7 | 1357.9 | 1386.8 | 1401.6 | 1405.5 |
| 22.5° | 2403.2 | 2260.1 | 1793.3 | 1295.7 | 1195.6 | 1228.3 | 1279.6 | 1324.6 | 1354.7 | 1369.5 | 1373.4 |
| 25° | 2537.5 | 2349.3 | 1706.6 | 1183.4 | 1139.0 | 1183.4 | 1234.7 | 1271.9 | 1296.3 | 1309.8 | 1313.6 |
| 27.5° | 2686.4 | 2442.4 | 1591.0 | 1094.1 | 1089.6 | 1137.1 | 1179.5 | 1208.4 | 1221.2 | 1231.4 | 1235.3 |
| 30° | 2836.0 | 2527.1 | 1451.1 | 1026.6 | 1046.5 | 1091.5 | 1121.7 | 1134.6 | 1138.4 | 1140.3 | 1144.8 |
| 32.5° | 2997.8 | 2600.3 | 1304.0 | 970.8 | 1005.5 | 1047.2 | 1065.2 | 1070.9 | 1053.0 | 1040.8 | 1044.7 |
| 35° | 3193.6 | 2678.7 | 1160.2 | 926.5 | 965.0 | 1001.0 | 1006.8 | 1001.6 | 980.4 | 955.4 | 956.6 |
| 37.5° | 3435.7 | 2776.3 | 1045.3 | 895.0 | 927.1 | 950.9 | 943.8 | 942.6 | 944.4 | 914.9 | 916.9 |
| 40° | 3732.3 | 2903.4 | 961.1 | 870.6 | 896.4 | 901.5 | 881.6 | 892.5 | 902.1 | 857.2 | 858.4 |
| 42.5° | 4061.7 | 3056.9 | 907.8 | 853.9 | 870.6 | 858.4 | 827.6 | 839.8 | 838.6 | 779.5 | 778.8 |
| 45° | 4397.6 | 3223.8 | 889.3 | 841.7 | 846.9 | 822.5 | 788.4 | 791.7 | 764.6 | 711.5 | 713.3 |
| 47.5° | 4731.4 | 3403.0 | 900.8 | 831.5 | 817.3 | 789.8 | 763.4 | 749.3 | 709.5 | 669.6 | 669.6 |
| 50° | 5058.9 | 3591.1 | 943.2 | 811.0 | 776.9 | 760.9 | 741.6 | 716.6 | 674.1 | 640.1 | 637.6 |
| 52.5° | 5362.5 | 3780.5 | 990.7 | 776.9 | 726.2 | 735.8 | 723.6 | 694.7 | 653.0 | 618.3 | 619.0 |
| 55° | 5650.2 | 3969.9 | 1009.3 | 730.0 | 678.7 | 714.0 | 706.9 | 653.6 | 603.5 | 575.3 | 572.8 |
| 57.5° | 5963.6 | 4197.8 | 988.8 | 670.3 | 640.1 | 688.9 | 661.9 | 602.9 | 574.0 | 552.8 | 550.9 |
| 60° | 6397.5 | 4555.5 | 944.4 | 596.4 | 603.5 | 651.7 | 605.5 | 581.1 | 549.6 | 525.8 | 524.6 |
| 62.5° | 7118.6 | 5222.6 | 873.2 | 523.3 | 560.6 | 596.4 | 578.5 | 554.1 | 522.0 | 498.9 | 498.9 |
| 65° | 8184.4 | 6149.7 | 739.0 | 466.2 | 512.4 | 542.5 | 549.6 | 525.2 | 491.8 | 467.4 | 468.7 |
| 67.5° | 9083.3 | 6731.4 | 559.2 | 418.6 | 462.9 | 498.9 | 518.8 | 495.1 | 459.7 | 435.9 | 436.6 |
| 70° | 9033.8 | 6309.0 | 427.0 | 371.8 | 419.2 | 455.8 | 481.5 | 462.9 | 425.1 | 402.6 | 404.5 |
| 72.5° | 8023.9 | 5277.8 | 345.4 | 324.2 | 374.9 | 410.9 | 441.8 | 427.6 | 389.1 | 367.3 | 367.3 |
| 75° | 5894.8 | 3746.5 | 276.1 | 276.1 | 319.8 | 364.1 | 398.1 | 389.1 | 353.7 | 338.4 | 333.8 |
| 77.5° | 2484.8 | 1571.7 | 216.4 | 229.2 | 265.8 | 312.7 | 355.1 | 358.2 | 327.5 | 346.8 | 314.6 |
| 80° | 660.7 | 433.4 | 165.0 | 180.4 | 208.7 | 258.1 | 308.8 | 307.5 | 274.2 | 256.1 | 238.2 |
| 82.5° | 251.7 | 170.8 | 117.5 | 127.1 | 150.9 | 197.7 | 244.7 | 252.4 | 218.9 | 189.4 | 189.4 |
| 85° | 97.0 | 73.2 | 72.6 | 76.4 | 87.9 | 131.0 | 184.9 | 191.4 | 165.0 | 140.0 | 144.4 |
| 87.5° | 25.0 | 21.8 | 27.0 | 25.7 | 40.5 | 70.0 | 106.0 | 109.8 | 100.8 | 58.4 | 83.4 |
| 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)