

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: P882437

Luminaire Tested: **NVN-SB2B-760-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882437
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-SB2B-760-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12260 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

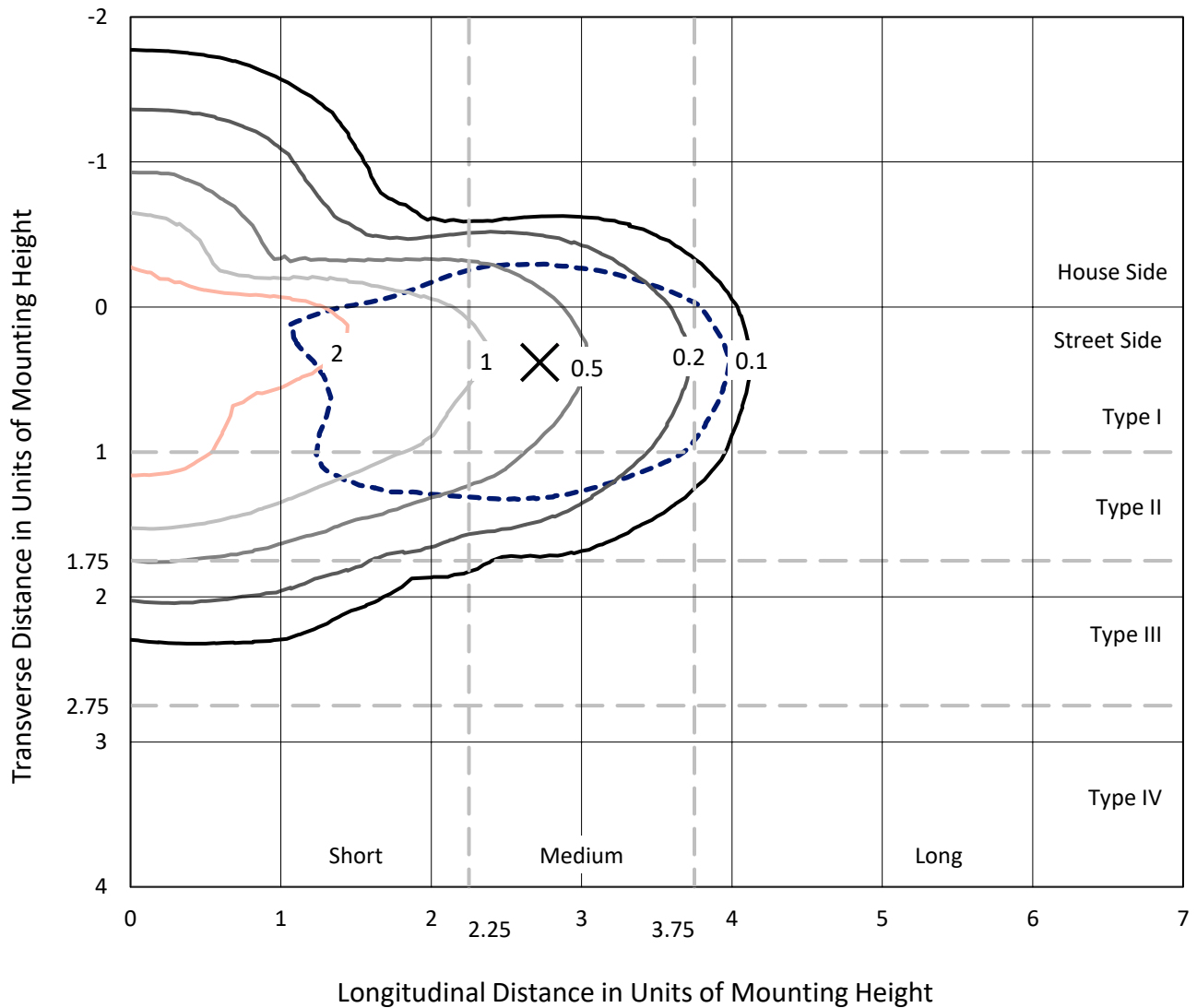
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

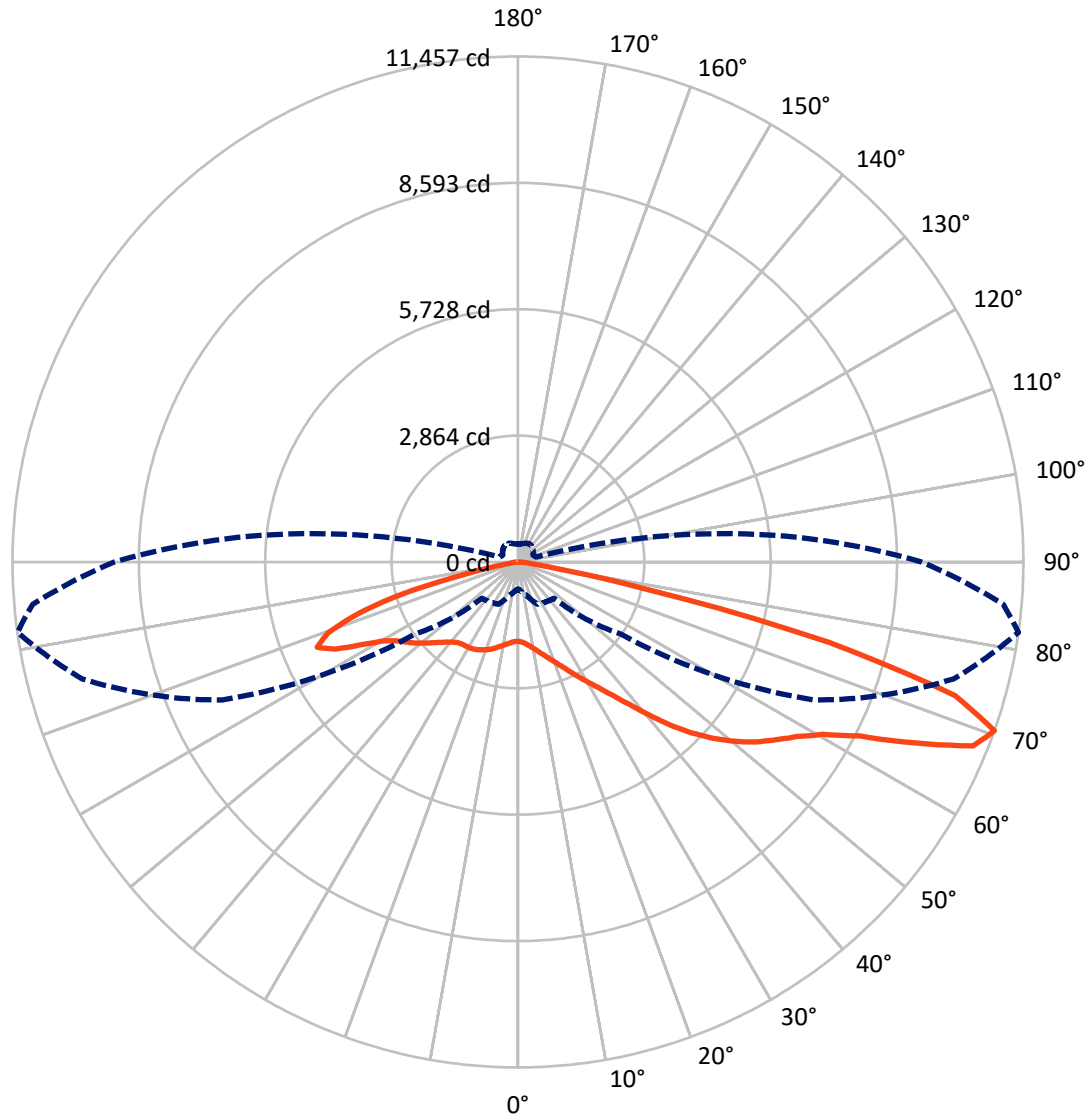
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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 | 3022.4 | 0.0 | 3022.4 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 9237.6 | 0.0 | 9237.6 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 12260.0 | 0.0 | 12260.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 169.7 | 1.4 |
| 10°-20° | 487.6 | 4.0 |
| 20°-30° | 815.7 | 6.7 |
| 30°-40° | 1274.3 | 10.4 |
| 40°-50° | 2029.5 | 16.6 |
| 50°-60° | 2824.3 | 23.0 |
| 60°-70° | 2954.4 | 24.1 |
| 70°-80° | 1544.1 | 12.6 |
| 80°-90° | 160.3 | 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° | 12260.0 | 100.0 |
| 0°-180° | 12260.0 | 100.0 |

Coefficient of Utilization

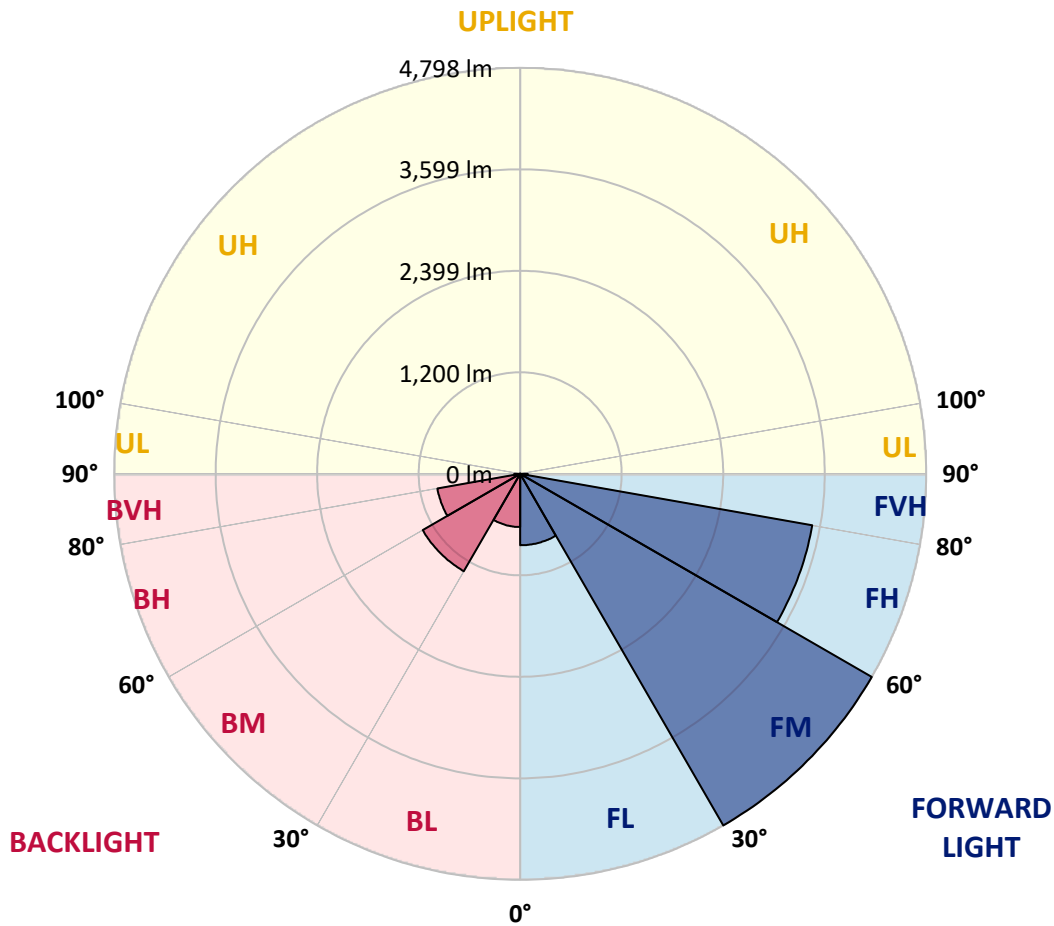


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 844.2 | 6.9 | | | |
| FM (30°-60°) | 4798.4 | 39.1 | | | |
| FH (60°-80°) | 3505.2 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 89.8 | 0.7 | | | G1/100 |
| BL (0°-30°) | 628.8 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1329.7 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 993.3 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 70.6 | 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° | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 |
| 2.5° | 1840.4 | 1850.8 | 1847.6 | 1844.3 | 1844.3 | 1839.8 | 1839.1 | 1832.6 | 1827.4 | 1818.9 | 1817.0 |
| 5° | 1863.8 | 1874.9 | 1873.6 | 1876.2 | 1884.6 | 1886.6 | 1888.5 | 1884.6 | 1874.2 | 1863.8 | 1859.3 |
| 7.5° | 1843.0 | 1855.4 | 1859.3 | 1874.9 | 1900.9 | 1924.3 | 1941.9 | 1949.0 | 1939.3 | 1924.3 | 1917.2 |
| 10° | 1772.7 | 1786.4 | 1800.1 | 1837.2 | 1883.3 | 1938.6 | 1985.5 | 2013.5 | 2011.5 | 1997.2 | 1984.8 |
| 12.5° | 1630.3 | 1644.6 | 1673.9 | 1746.1 | 1830.6 | 1928.2 | 2015.4 | 2074.0 | 2094.1 | 2083.7 | 2062.2 |
| 15° | 1516.4 | 1528.8 | 1550.9 | 1625.1 | 1735.0 | 1883.3 | 2026.5 | 2140.3 | 2191.7 | 2185.8 | 2159.8 |
| 17.5° | 1513.2 | 1518.4 | 1532.0 | 1567.2 | 1651.7 | 1813.1 | 2014.8 | 2205.4 | 2303.6 | 2302.9 | 2270.4 |
| 20° | 1570.4 | 1572.4 | 1580.2 | 1587.3 | 1635.5 | 1759.7 | 1984.8 | 2259.4 | 2429.2 | 2429.2 | 2394.0 |
| 22.5° | 1649.8 | 1648.5 | 1656.3 | 1649.8 | 1673.2 | 1755.2 | 1966.0 | 2306.8 | 2569.0 | 2579.4 | 2535.2 |
| 25° | 1768.8 | 1762.3 | 1760.4 | 1745.4 | 1750.0 | 1797.5 | 1986.8 | 2360.8 | 2734.9 | 2756.4 | 2701.1 |
| 27.5° | 1927.6 | 1917.2 | 1910.0 | 1875.5 | 1863.8 | 1884.6 | 2050.5 | 2425.9 | 2919.7 | 2956.7 | 2886.5 |
| 30° | 2134.5 | 2115.6 | 2105.2 | 2045.3 | 2003.0 | 2006.3 | 2146.8 | 2512.4 | 3112.9 | 3172.7 | 3083.6 |
| 32.5° | 2416.8 | 2387.5 | 2359.5 | 2261.3 | 2183.9 | 2158.5 | 2271.1 | 2632.1 | 3322.4 | 3418.0 | 3303.5 |
| 35° | 2733.0 | 2709.5 | 2679.6 | 2528.0 | 2409.0 | 2350.4 | 2438.9 | 2799.3 | 3567.6 | 3719.2 | 3570.2 |
| 37.5° | 3037.4 | 3017.3 | 3031.6 | 2827.3 | 2673.8 | 2588.5 | 2658.8 | 3023.8 | 3870.1 | 4093.9 | 3904.6 |
| 40° | 3352.3 | 3336.7 | 3338.6 | 3143.5 | 2964.6 | 2868.9 | 2925.5 | 3305.4 | 4216.9 | 4539.5 | 4306.6 |
| 42.5° | 3694.5 | 3682.8 | 3643.7 | 3470.7 | 3269.7 | 3180.5 | 3232.6 | 3630.7 | 4589.0 | 5047.0 | 4747.7 |
| 45° | 4077.6 | 4070.5 | 4034.1 | 3835.6 | 3605.3 | 3505.2 | 3575.4 | 3989.8 | 4963.0 | 5524.5 | 5190.7 |
| 47.5° | 4408.8 | 4414.6 | 4410.1 | 4242.9 | 4004.1 | 3857.1 | 3941.0 | 4364.5 | 5311.1 | 5973.3 | 5615.5 |
| 50° | 4568.2 | 4598.7 | 4643.6 | 4591.6 | 4443.3 | 4293.6 | 4309.9 | 4726.2 | 5642.9 | 6394.3 | 6022.8 |
| 52.5° | 4484.9 | 4542.8 | 4665.1 | 4748.4 | 4805.6 | 4774.4 | 4730.8 | 5085.3 | 5955.1 | 6774.2 | 6407.9 |
| 55° | 4174.6 | 4255.9 | 4458.9 | 4659.9 | 4952.0 | 5179.0 | 5236.3 | 5483.5 | 6259.6 | 7108.6 | 6772.2 |
| 57.5° | 3609.3 | 3741.3 | 3923.5 | 4330.1 | 4821.9 | 5374.8 | 5825.7 | 6035.8 | 6582.3 | 7465.7 | 7153.4 |
| 60° | 2639.9 | 2816.9 | 3043.3 | 3648.3 | 4366.5 | 5270.1 | 6327.2 | 6884.1 | 7040.9 | 7928.3 | 7649.8 |
| 62.5° | 1689.5 | 1798.8 | 2006.9 | 2576.8 | 3402.4 | 4733.4 | 6480.8 | 7944.5 | 7818.3 | 8686.8 | 8394.0 |
| 65° | 1156.7 | 1226.9 | 1417.5 | 1737.6 | 2199.5 | 3523.4 | 6069.6 | 8739.5 | 9053.1 | 9889.0 | 9666.5 |
| 67.5° | 840.5 | 893.9 | 1056.5 | 1336.9 | 1433.2 | 2085.0 | 4710.0 | 8703.1 | 10253.3 | 11127.7 | 10781.6 |
| 70° | 612.8 | 650.5 | 787.2 | 1056.5 | 1102.7 | 1159.9 | 2853.3 | 7398.1 | 10227.3 | 11456.8 | 11042.4 |
| 72.5° | 454.1 | 480.1 | 571.8 | 819.7 | 892.6 | 783.3 | 1412.3 | 5376.8 | 8788.3 | 10362.6 | 10030.2 |
| 75° | 328.5 | 348.0 | 415.7 | 627.1 | 714.3 | 596.6 | 704.5 | 3142.2 | 6130.1 | 7289.4 | 7348.0 |
| 77.5° | 251.1 | 266.1 | 310.3 | 459.3 | 571.8 | 447.6 | 437.2 | 1445.5 | 2906.7 | 2921.0 | 3084.9 |
| 80° | 201.7 | 211.4 | 235.5 | 323.3 | 438.5 | 335.0 | 284.9 | 583.5 | 918.6 | 777.4 | 815.8 |
| 82.5° | 148.3 | 164.6 | 199.1 | 227.0 | 313.6 | 230.9 | 173.7 | 294.7 | 349.3 | 300.6 | 303.2 |
| 85° | 84.6 | 95.6 | 120.4 | 162.6 | 200.4 | 141.2 | 99.5 | 130.8 | 162.6 | 133.4 | 119.1 |
| 87.5° | 29.9 | 39.0 | 42.3 | 63.8 | 87.2 | 58.5 | 38.4 | 37.7 | 53.3 | 39.7 | 33.2 |
| 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° | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 | 1797.5 |
| 2.5° | 1810.5 | 1807.2 | 1794.2 | 1776.7 | 1758.4 | 1740.9 | 1735.0 | 1722.7 | 1714.2 | 1709.6 | 1714.8 |
| 5° | 1846.9 | 1836.5 | 1805.9 | 1766.9 | 1725.9 | 1681.7 | 1650.4 | 1621.8 | 1601.0 | 1581.5 | 1589.3 |
| 7.5° | 1899.0 | 1880.7 | 1828.0 | 1759.7 | 1686.9 | 1613.4 | 1558.7 | 1517.1 | 1489.1 | 1470.9 | 1474.8 |
| 10° | 1959.5 | 1931.5 | 1850.8 | 1748.7 | 1636.1 | 1530.7 | 1466.3 | 1430.6 | 1413.0 | 1403.2 | 1405.8 |
| 12.5° | 2029.1 | 1989.4 | 1874.2 | 1723.3 | 1558.7 | 1438.4 | 1394.1 | 1383.7 | 1384.4 | 1385.0 | 1386.3 |
| 15° | 2114.9 | 2059.6 | 1893.1 | 1668.0 | 1457.9 | 1367.5 | 1359.6 | 1376.6 | 1394.1 | 1402.6 | 1401.9 |
| 17.5° | 2211.9 | 2133.8 | 1896.4 | 1576.9 | 1359.0 | 1321.9 | 1346.6 | 1383.1 | 1409.7 | 1421.5 | 1424.1 |
| 20° | 2316.0 | 2209.3 | 1872.9 | 1448.1 | 1277.7 | 1284.8 | 1329.1 | 1375.9 | 1405.2 | 1420.2 | 1424.1 |
| 22.5° | 2435.0 | 2289.9 | 1817.0 | 1312.8 | 1211.3 | 1244.5 | 1296.5 | 1342.1 | 1372.7 | 1387.6 | 1391.5 |
| 25° | 2571.0 | 2380.4 | 1729.2 | 1199.0 | 1154.1 | 1199.0 | 1251.0 | 1288.7 | 1313.5 | 1327.1 | 1331.0 |
| 27.5° | 2721.9 | 2474.7 | 1612.1 | 1108.5 | 1104.0 | 1152.1 | 1195.1 | 1224.3 | 1237.3 | 1247.8 | 1251.7 |
| 30° | 2873.5 | 2560.6 | 1470.2 | 1040.2 | 1060.4 | 1105.9 | 1136.5 | 1149.5 | 1153.4 | 1155.4 | 1159.9 |
| 32.5° | 3037.4 | 2634.7 | 1321.3 | 983.6 | 1018.8 | 1061.0 | 1079.3 | 1085.1 | 1066.9 | 1054.5 | 1058.4 |
| 35° | 3235.8 | 2714.1 | 1175.5 | 938.7 | 977.8 | 1014.2 | 1020.1 | 1014.9 | 993.4 | 968.0 | 969.3 |
| 37.5° | 3481.1 | 2813.0 | 1059.1 | 906.9 | 939.4 | 963.5 | 956.3 | 955.0 | 957.0 | 927.0 | 929.0 |
| 40° | 3781.6 | 2941.8 | 973.9 | 882.1 | 908.2 | 913.4 | 893.2 | 904.3 | 914.0 | 868.5 | 869.8 |
| 42.5° | 4115.4 | 3097.3 | 919.9 | 865.2 | 882.1 | 869.8 | 838.6 | 850.9 | 849.6 | 789.8 | 789.1 |
| 45° | 4455.6 | 3266.4 | 901.0 | 852.9 | 858.1 | 833.4 | 798.9 | 802.1 | 774.8 | 720.8 | 722.8 |
| 47.5° | 4793.9 | 3447.9 | 912.7 | 842.5 | 828.1 | 800.2 | 773.5 | 759.2 | 718.9 | 678.5 | 678.5 |
| 50° | 5125.7 | 3638.5 | 955.7 | 821.6 | 787.2 | 770.9 | 751.4 | 726.0 | 683.1 | 648.6 | 646.0 |
| 52.5° | 5433.4 | 3830.4 | 1003.8 | 787.2 | 735.8 | 745.5 | 733.2 | 703.9 | 661.6 | 626.5 | 627.1 |
| 55° | 5724.8 | 4022.3 | 1022.7 | 739.7 | 687.6 | 723.4 | 716.3 | 662.3 | 611.5 | 582.9 | 580.3 |
| 57.5° | 6042.3 | 4253.3 | 1001.8 | 679.2 | 648.6 | 698.0 | 670.7 | 610.9 | 581.6 | 560.1 | 558.2 |
| 60° | 6482.1 | 4615.7 | 957.0 | 604.4 | 611.5 | 660.3 | 613.5 | 588.7 | 556.9 | 532.8 | 531.5 |
| 62.5° | 7212.6 | 5291.6 | 884.7 | 530.2 | 567.9 | 604.4 | 586.1 | 561.4 | 528.9 | 505.5 | 505.5 |
| 65° | 8292.6 | 6231.0 | 748.8 | 472.3 | 519.1 | 549.7 | 556.9 | 532.1 | 498.3 | 473.6 | 474.9 |
| 67.5° | 9203.3 | 6820.4 | 566.6 | 424.2 | 469.0 | 505.5 | 525.6 | 501.6 | 465.8 | 441.7 | 442.4 |
| 70° | 9153.2 | 6392.3 | 432.6 | 376.7 | 424.8 | 461.9 | 487.9 | 469.0 | 430.7 | 407.9 | 409.8 |
| 72.5° | 8129.9 | 5347.5 | 350.0 | 328.5 | 379.9 | 416.4 | 447.6 | 433.3 | 394.2 | 372.1 | 372.1 |
| 75° | 5972.7 | 3796.0 | 279.7 | 279.7 | 324.0 | 368.9 | 403.3 | 394.2 | 358.5 | 342.8 | 338.3 |
| 77.5° | 2517.6 | 1592.5 | 219.2 | 232.2 | 269.3 | 316.8 | 359.8 | 363.0 | 331.8 | 351.3 | 318.8 |
| 80° | 669.4 | 439.1 | 167.2 | 182.8 | 211.4 | 261.5 | 312.9 | 311.6 | 277.8 | 259.6 | 241.4 |
| 82.5° | 255.0 | 173.0 | 119.1 | 128.8 | 152.9 | 200.4 | 247.9 | 255.7 | 221.8 | 191.9 | 191.9 |
| 85° | 98.2 | 74.2 | 73.5 | 77.4 | 89.1 | 132.7 | 187.4 | 193.9 | 167.2 | 141.8 | 146.4 |
| 87.5° | 25.4 | 22.1 | 27.3 | 26.0 | 41.0 | 70.9 | 107.3 | 111.2 | 102.1 | 59.2 | 84.6 |
| 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)