

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: P882949

Luminaire Tested: **NVN-SB3A-760-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-760-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14516 lumens
Efficiency: N/A
Efficacy: 171.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

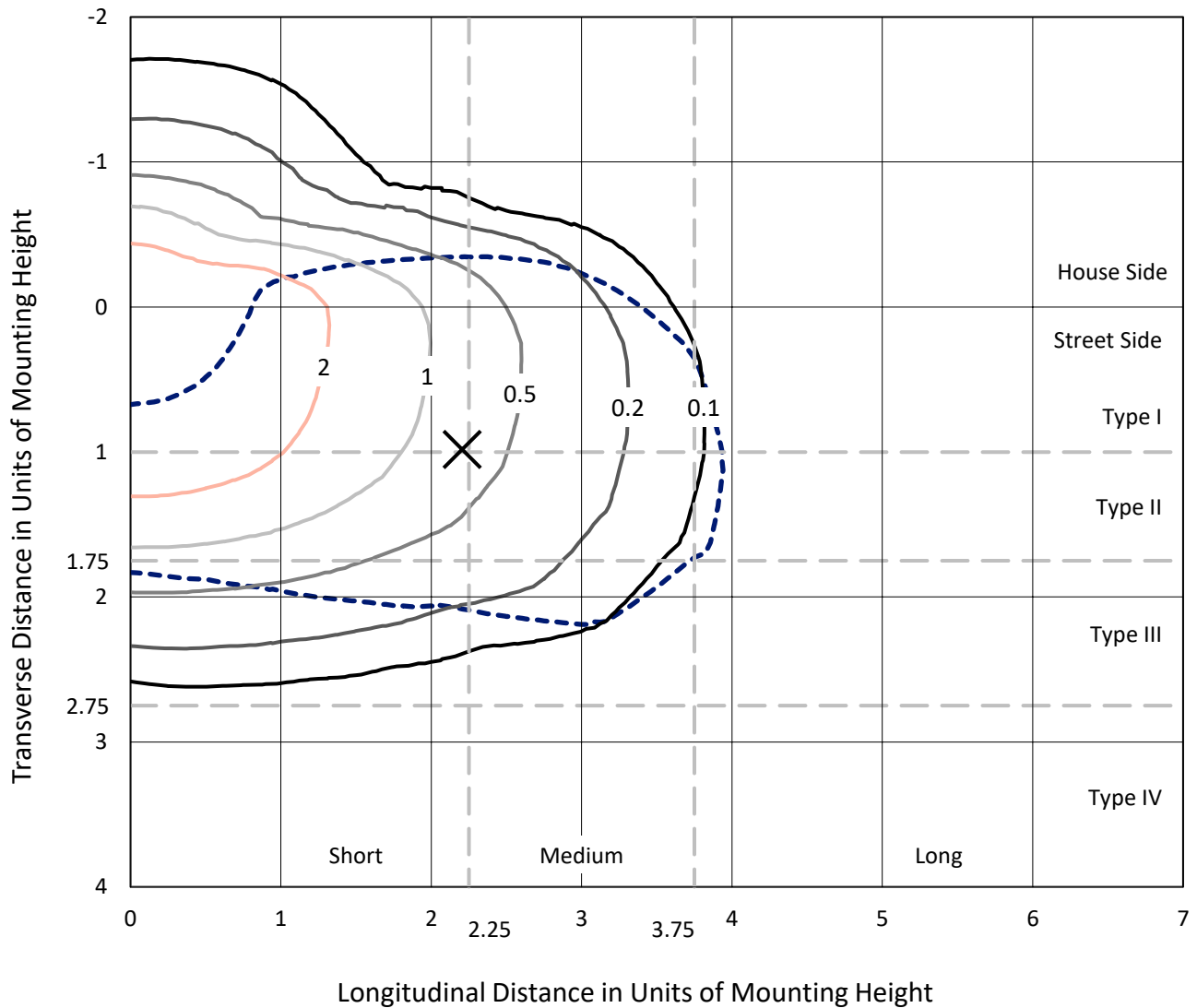
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

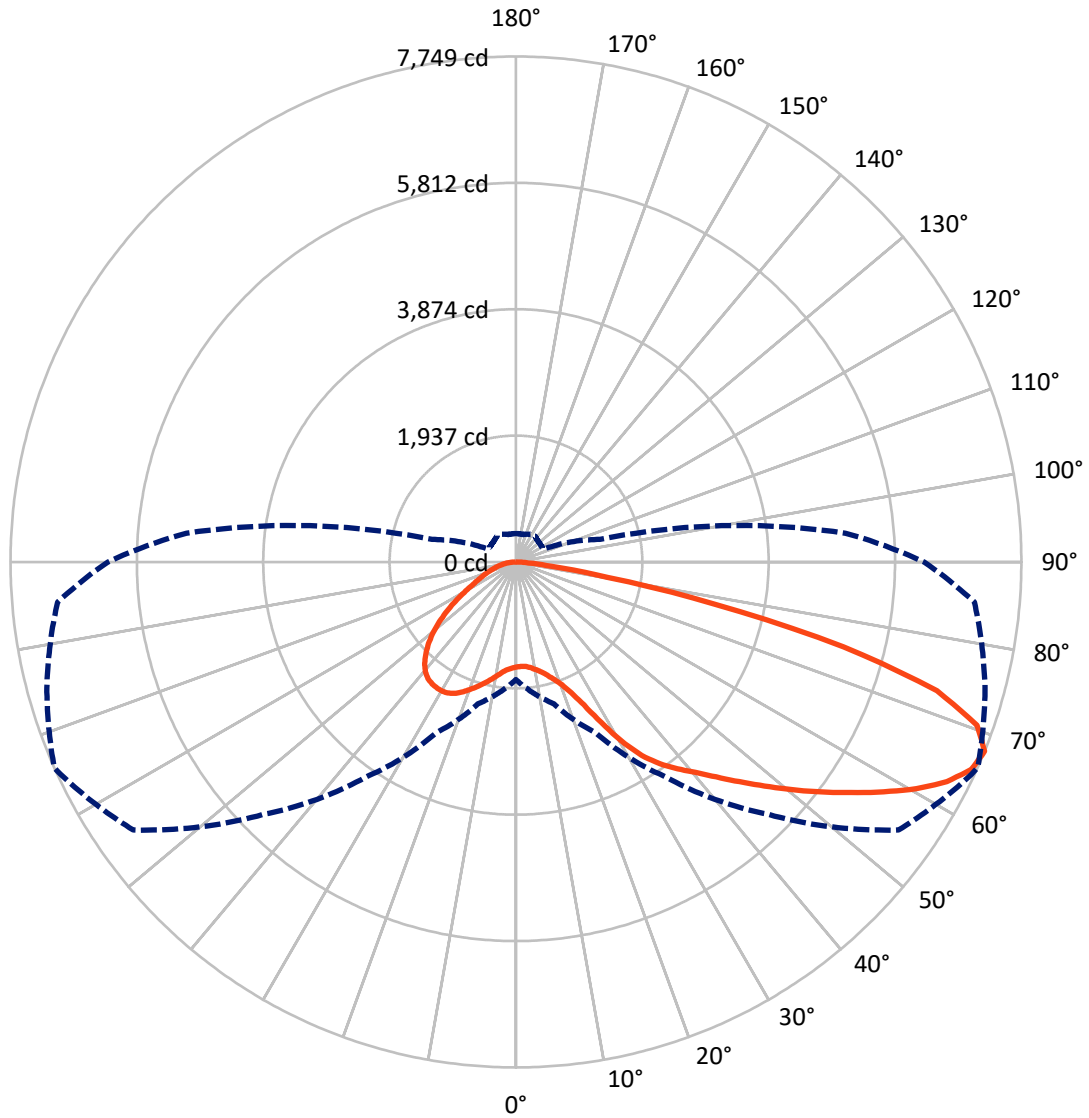
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3609.4 | 0.0 | 3609.4 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 10906.6 | 0.0 | 10906.6 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 14516.0 | 0.0 | 14516.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 159.6 | 1.1 |
| 10°-20° | 527.4 | 3.6 |
| 20°-30° | 1016.5 | 7.0 |
| 30°-40° | 1782.3 | 12.3 |
| 40°-50° | 2649.7 | 18.3 |
| 50°-60° | 3358.8 | 23.1 |
| 60°-70° | 3286.5 | 22.6 |
| 70°-80° | 1567.7 | 10.8 |
| 80°-90° | 167.6 | 1.2 |
| 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° | 14516.0 | 100.0 |
| 0°-180° | 14516.0 | 100.0 |

Coefficient of Utilization



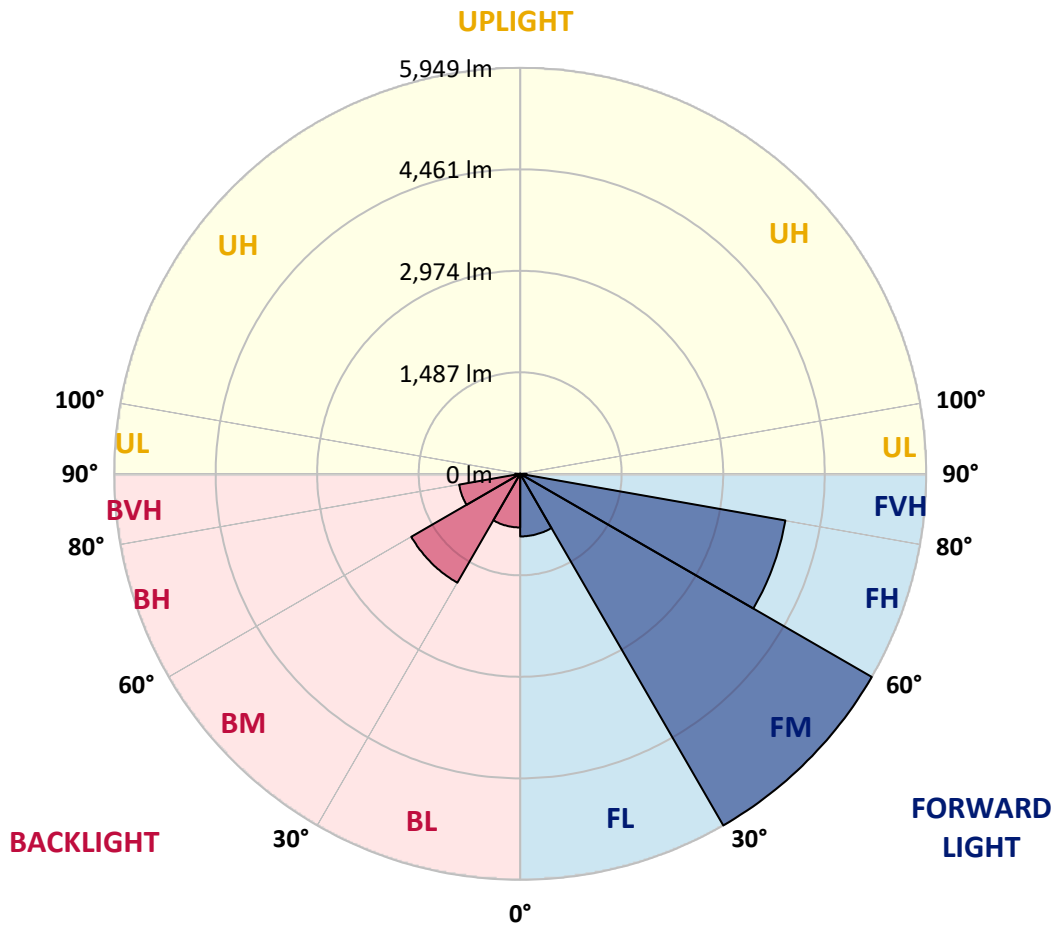
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 917.3 | 6.3 | | | |
| FM (30°-60°) | 5948.5 | 41.0 | | | |
| FH (60°-80°) | 3945.8 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 95.0 | 0.7 | | | G1/100 |
| BL (0°-30°) | 786.2 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1842.3 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 908.3 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 72.6 | 0.5 | | | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 |
| 2.5° | 1593.2 | 1602.4 | 1600.1 | 1596.3 | 1595.5 | 1597.1 | 1599.3 | 1601.6 | 1600.9 | 1604.7 | 1610.8 |
| 5° | 1588.7 | 1597.8 | 1597.1 | 1597.1 | 1600.1 | 1606.2 | 1610.0 | 1613.8 | 1610.0 | 1614.6 | 1623.0 |
| 7.5° | 1591.7 | 1598.6 | 1601.6 | 1604.7 | 1612.3 | 1623.7 | 1632.9 | 1641.3 | 1636.7 | 1642.0 | 1652.7 |
| 10° | 1630.6 | 1635.9 | 1639.0 | 1639.0 | 1644.3 | 1657.3 | 1666.5 | 1681.7 | 1677.9 | 1686.3 | 1700.0 |
| 12.5° | 1701.5 | 1706.9 | 1706.9 | 1703.8 | 1707.6 | 1716.0 | 1719.1 | 1735.9 | 1729.0 | 1742.7 | 1756.5 |
| 15° | 1788.5 | 1799.2 | 1790.8 | 1785.4 | 1787.0 | 1795.3 | 1794.6 | 1807.6 | 1800.7 | 1812.1 | 1824.3 |
| 17.5° | 1884.6 | 1898.3 | 1884.6 | 1883.8 | 1880.8 | 1889.9 | 1890.7 | 1902.1 | 1889.9 | 1898.3 | 1906.7 |
| 20° | 1998.2 | 2017.3 | 2005.8 | 2009.7 | 2002.8 | 2006.6 | 2010.4 | 2027.2 | 2008.1 | 2014.2 | 2011.9 |
| 22.5° | 2158.4 | 2181.3 | 2169.1 | 2183.6 | 2179.0 | 2175.9 | 2175.2 | 2204.9 | 2175.2 | 2177.4 | 2155.3 |
| 25° | 2391.8 | 2419.2 | 2397.9 | 2417.7 | 2417.7 | 2427.6 | 2439.0 | 2477.2 | 2427.6 | 2413.1 | 2355.9 |
| 27.5° | 2736.5 | 2764.0 | 2722.0 | 2734.2 | 2730.4 | 2754.8 | 2742.6 | 2837.2 | 2783.8 | 2760.1 | 2645.0 |
| 30° | 3151.4 | 3200.2 | 3120.9 | 3117.8 | 3114.0 | 3152.9 | 3170.5 | 3233.0 | 3178.8 | 3155.2 | 3016.4 |
| 32.5° | 3599.8 | 3650.9 | 3556.4 | 3528.9 | 3514.4 | 3538.1 | 3523.6 | 3573.9 | 3536.5 | 3499.9 | 3328.3 |
| 35° | 4074.2 | 4124.6 | 4034.6 | 3981.2 | 3923.2 | 3873.6 | 3821.8 | 3834.8 | 3799.7 | 3744.0 | 3566.3 |
| 37.5° | 4522.7 | 4615.0 | 4519.6 | 4462.4 | 4355.7 | 4258.8 | 4113.9 | 4053.6 | 4020.8 | 3969.7 | 3790.5 |
| 40° | 4979.5 | 5032.2 | 4959.7 | 4910.9 | 4795.0 | 4643.2 | 4411.3 | 4284.0 | 4239.7 | 4190.2 | 4038.4 |
| 42.5° | 5315.9 | 5366.2 | 5327.3 | 5293.8 | 5203.0 | 5026.8 | 4727.1 | 4567.7 | 4503.6 | 4447.9 | 4319.1 |
| 45° | 5582.8 | 5620.2 | 5595.8 | 5608.0 | 5569.1 | 5398.2 | 5054.3 | 4872.0 | 4805.6 | 4737.8 | 4636.3 |
| 47.5° | 5690.4 | 5730.0 | 5768.9 | 5841.4 | 5907.7 | 5781.9 | 5405.9 | 5201.5 | 5131.3 | 5061.9 | 4962.0 |
| 50° | 5678.1 | 5718.6 | 5831.4 | 5985.5 | 6191.4 | 6149.5 | 5776.5 | 5552.3 | 5487.5 | 5408.2 | 5315.9 |
| 52.5° | 5580.5 | 5626.3 | 5771.2 | 6027.5 | 6355.4 | 6424.8 | 6154.1 | 5914.6 | 5853.6 | 5759.0 | 5666.7 |
| 55° | 5324.3 | 5351.7 | 5569.1 | 5932.1 | 6394.3 | 6617.0 | 6524.0 | 6300.5 | 6239.5 | 6107.5 | 6006.9 |
| 57.5° | 4849.1 | 4888.8 | 5205.3 | 5675.1 | 6296.7 | 6747.4 | 6848.9 | 6706.2 | 6647.5 | 6457.6 | 6352.4 |
| 60° | 4229.1 | 4292.4 | 4654.6 | 5243.4 | 6048.0 | 6746.7 | 7144.0 | 7105.1 | 7056.3 | 6802.3 | 6692.5 |
| 62.5° | 3527.4 | 3600.6 | 3949.2 | 4633.3 | 5613.3 | 6555.2 | 7328.6 | 7439.2 | 7414.0 | 7120.4 | 6980.0 |
| 65° | 2709.0 | 2759.4 | 3106.4 | 3843.9 | 4936.8 | 6144.1 | 7349.9 | 7667.2 | 7671.8 | 7362.1 | 7130.3 |
| 67.5° | 1803.7 | 1948.6 | 2249.9 | 2884.5 | 4030.8 | 5472.2 | 7162.3 | 7704.6 | 7748.8 | 7445.3 | 7054.8 |
| 70° | 880.1 | 1070.8 | 1366.0 | 1874.7 | 2884.5 | 4441.8 | 6671.9 | 7398.0 | 7496.4 | 7202.7 | 6604.8 |
| 72.5° | 365.3 | 427.1 | 588.0 | 925.1 | 1655.8 | 2997.3 | 5686.5 | 6566.7 | 6749.0 | 6382.1 | 5553.1 |
| 75° | 246.3 | 266.9 | 336.3 | 474.4 | 754.3 | 1478.1 | 4100.9 | 4896.4 | 5190.0 | 4820.1 | 3940.0 |
| 77.5° | 189.9 | 202.9 | 244.8 | 331.8 | 448.5 | 559.0 | 2195.0 | 2950.8 | 3102.6 | 2872.3 | 2050.1 |
| 80° | 149.5 | 159.4 | 183.0 | 241.8 | 318.0 | 299.0 | 748.2 | 1337.0 | 1424.7 | 1195.1 | 659.0 |
| 82.5° | 129.7 | 133.5 | 131.2 | 164.0 | 211.3 | 174.7 | 245.6 | 493.5 | 544.6 | 395.1 | 215.1 |
| 85° | 93.8 | 104.5 | 109.1 | 101.4 | 112.1 | 88.5 | 100.7 | 174.7 | 192.2 | 171.6 | 121.3 |
| 87.5° | 38.1 | 56.4 | 69.4 | 65.6 | 41.2 | 25.2 | 31.3 | 51.1 | 58.7 | 64.1 | 39.7 |
| 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° | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 |
| 2.5° | 1611.5 | 1616.9 | 1620.7 | 1625.3 | 1628.3 | 1632.9 | 1642.0 | 1647.4 | 1648.2 | 1652.0 | 1651.2 |
| 5° | 1626.0 | 1633.7 | 1642.0 | 1654.3 | 1668.0 | 1679.4 | 1697.0 | 1709.2 | 1713.7 | 1717.6 | 1716.8 |
| 7.5° | 1657.3 | 1668.0 | 1683.2 | 1704.6 | 1724.4 | 1739.7 | 1761.0 | 1775.5 | 1790.0 | 1795.3 | 1796.1 |
| 10° | 1703.8 | 1719.1 | 1741.2 | 1770.2 | 1791.5 | 1811.4 | 1833.5 | 1845.7 | 1860.2 | 1866.3 | 1869.3 |
| 12.5° | 1761.8 | 1777.8 | 1806.8 | 1847.2 | 1867.0 | 1880.8 | 1888.4 | 1885.3 | 1888.4 | 1893.7 | 1895.3 |
| 15° | 1828.1 | 1845.7 | 1878.5 | 1922.0 | 1935.7 | 1923.5 | 1906.7 | 1891.4 | 1889.2 | 1890.7 | 1896.0 |
| 17.5° | 1906.7 | 1919.7 | 1957.8 | 1994.4 | 1984.5 | 1934.2 | 1897.5 | 1873.1 | 1860.9 | 1857.1 | 1862.5 |
| 20° | 2016.5 | 2016.5 | 2047.8 | 2070.7 | 2004.3 | 1918.9 | 1861.7 | 1822.0 | 1796.9 | 1786.2 | 1783.9 |
| 22.5° | 2150.0 | 2137.8 | 2157.6 | 2141.6 | 2000.5 | 1876.2 | 1796.9 | 1728.2 | 1690.1 | 1674.8 | 1672.6 |
| 25° | 2319.3 | 2304.8 | 2299.5 | 2200.3 | 1973.1 | 1808.3 | 1679.4 | 1596.3 | 1562.7 | 1554.3 | 1555.9 |
| 27.5° | 2574.8 | 2538.2 | 2468.8 | 2232.4 | 1922.7 | 1701.5 | 1542.1 | 1465.1 | 1446.0 | 1446.8 | 1449.1 |
| 30° | 2915.0 | 2841.7 | 2671.7 | 2237.7 | 1840.3 | 1550.5 | 1401.8 | 1346.9 | 1337.7 | 1341.6 | 1354.5 |
| 32.5° | 3229.9 | 3160.5 | 2879.1 | 2213.3 | 1713.7 | 1402.6 | 1276.0 | 1239.4 | 1225.6 | 1230.2 | 1236.3 |
| 35° | 3477.1 | 3458.0 | 3071.3 | 2179.0 | 1558.2 | 1263.8 | 1163.1 | 1131.8 | 1105.1 | 1099.0 | 1103.6 |
| 37.5° | 3710.4 | 3702.8 | 3215.5 | 2130.9 | 1404.1 | 1165.4 | 1072.3 | 1031.1 | 992.2 | 970.9 | 971.7 |
| 40° | 3966.7 | 3959.1 | 3310.0 | 2056.9 | 1267.6 | 1080.0 | 990.7 | 936.6 | 888.5 | 849.6 | 853.4 |
| 42.5° | 4255.0 | 4210.0 | 3355.0 | 1950.9 | 1151.6 | 1007.5 | 924.4 | 851.2 | 787.8 | 752.0 | 754.3 |
| 45° | 4570.0 | 4468.5 | 3354.3 | 1815.9 | 1054.0 | 941.1 | 853.4 | 749.7 | 691.0 | 657.4 | 655.9 |
| 47.5° | 4904.0 | 4715.6 | 3313.1 | 1666.5 | 959.5 | 867.9 | 743.6 | 664.3 | 625.4 | 604.8 | 600.2 |
| 50° | 5248.8 | 4946.7 | 3242.9 | 1494.9 | 862.6 | 784.8 | 675.0 | 620.8 | 591.1 | 572.0 | 565.1 |
| 52.5° | 5572.9 | 5156.5 | 3158.3 | 1300.4 | 764.2 | 704.0 | 644.5 | 602.5 | 571.2 | 549.9 | 540.7 |
| 55° | 5874.2 | 5337.2 | 3038.5 | 1101.3 | 684.1 | 649.8 | 630.0 | 594.9 | 559.0 | 533.9 | 524.0 |
| 57.5° | 6141.9 | 5454.7 | 2831.8 | 914.5 | 626.9 | 612.4 | 614.7 | 581.9 | 540.7 | 519.4 | 505.7 |
| 60° | 6364.6 | 5540.9 | 2526.0 | 741.3 | 580.4 | 575.8 | 591.1 | 557.5 | 509.5 | 485.1 | 474.4 |
| 62.5° | 6498.0 | 5539.3 | 2150.8 | 607.1 | 540.7 | 542.3 | 559.8 | 527.0 | 478.2 | 455.3 | 448.5 |
| 65° | 6486.6 | 5403.6 | 1738.9 | 519.4 | 502.6 | 504.1 | 527.0 | 493.5 | 452.3 | 438.5 | 437.8 |
| 67.5° | 6257.0 | 5072.6 | 1333.9 | 462.2 | 460.7 | 467.5 | 494.2 | 470.6 | 436.3 | 434.7 | 437.0 |
| 70° | 5635.4 | 4385.4 | 961.0 | 416.4 | 417.2 | 427.1 | 462.2 | 456.1 | 427.9 | 430.9 | 430.2 |
| 72.5° | 4518.9 | 3343.6 | 645.2 | 368.4 | 369.1 | 385.2 | 431.7 | 444.6 | 419.5 | 459.9 | 466.0 |
| 75° | 3009.5 | 2085.2 | 414.9 | 317.3 | 318.0 | 338.6 | 405.0 | 422.5 | 396.6 | 458.4 | 462.2 |
| 77.5° | 1446.0 | 937.3 | 300.5 | 266.9 | 266.9 | 286.0 | 350.1 | 378.3 | 337.9 | 356.2 | 326.4 |
| 80° | 499.6 | 352.4 | 236.4 | 215.1 | 210.5 | 223.5 | 295.2 | 328.0 | 291.3 | 268.5 | 251.7 |
| 82.5° | 196.8 | 183.0 | 189.9 | 167.0 | 151.8 | 160.2 | 229.6 | 270.8 | 214.3 | 193.7 | 193.0 |
| 85° | 112.9 | 119.0 | 134.2 | 110.6 | 87.7 | 98.4 | 168.6 | 194.5 | 161.7 | 142.6 | 145.7 |
| 87.5° | 30.5 | 41.9 | 61.8 | 57.2 | 39.7 | 41.9 | 80.1 | 107.5 | 93.0 | 71.7 | 74.0 |
| 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)