

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: P883078

Luminaire Tested: **NVN-SB3B-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13040 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

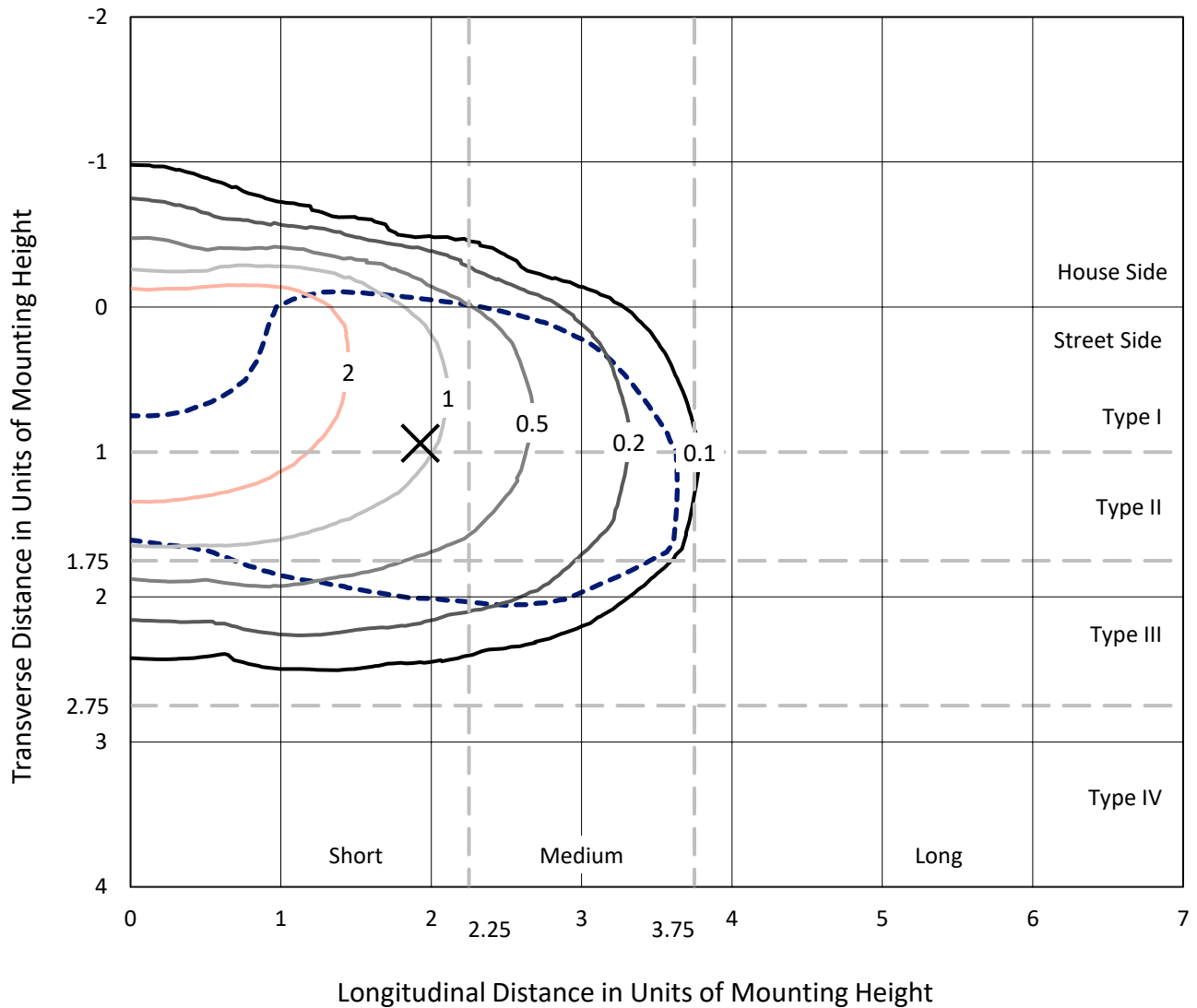
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

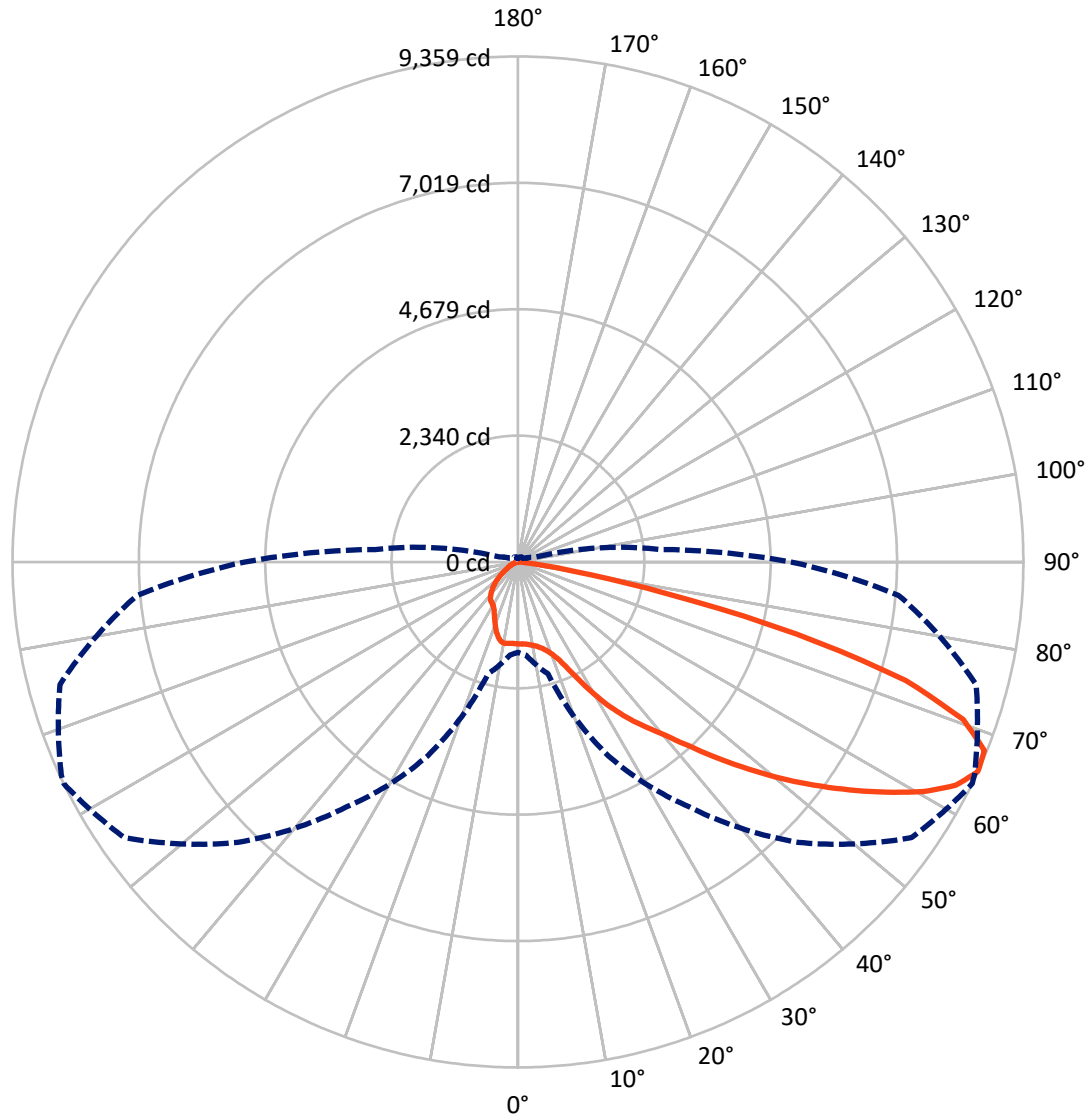
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1743.8 | 0.0 | 1743.8 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 11296.1 | 0.0 | 11296.1 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 13040.0 | 0.0 | 13040.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 139.9 | 1.1 |
| 10°-20° | 379.5 | 2.9 |
| 20°-30° | 719.2 | 5.5 |
| 30°-40° | 1455.3 | 11.2 |
| 40°-50° | 2479.1 | 19.0 |
| 50°-60° | 3371.3 | 25.9 |
| 60°-70° | 3165.9 | 24.3 |
| 70°-80° | 1268.4 | 9.7 |
| 80°-90° | 61.4 | 0.5 |
| 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° | 13040.0 | 100.0 |
| 0°-180° | 13040.0 | 100.0 |

Coefficient of Utilization



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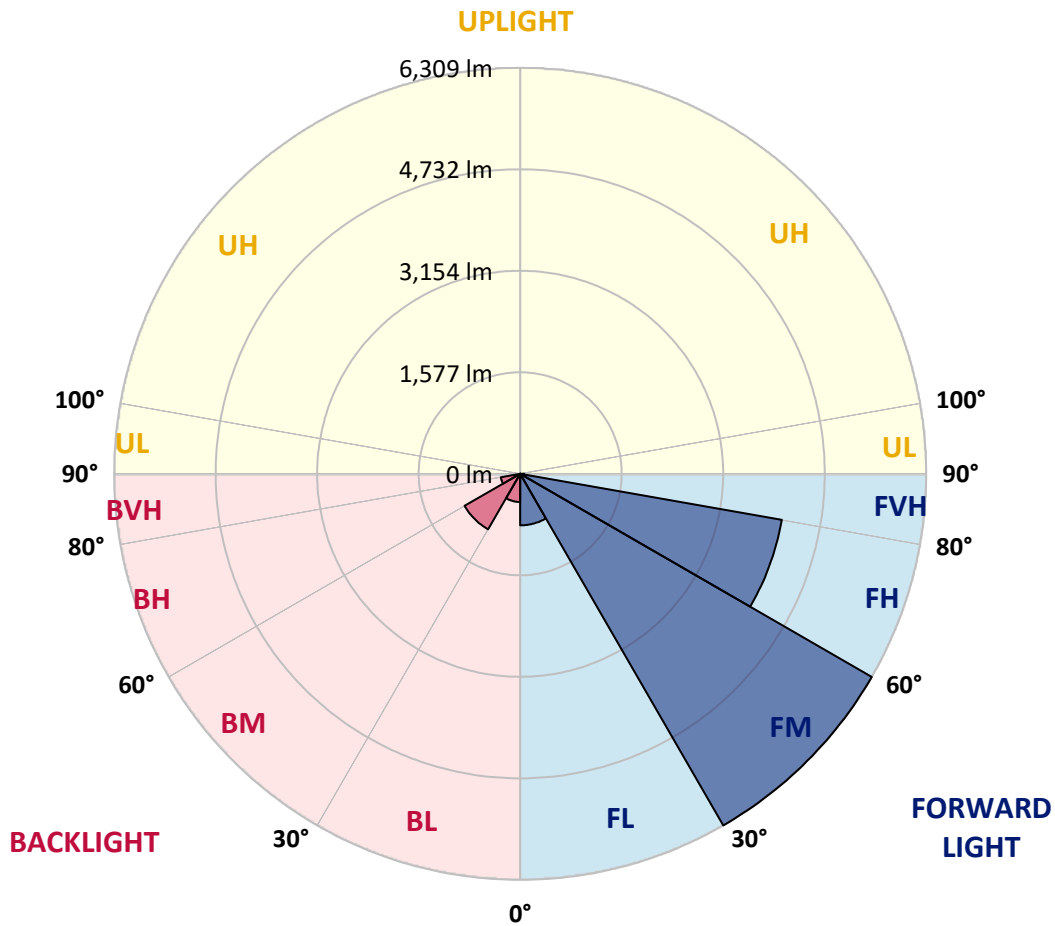
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 800.8 | 6.1 | | | |
| FM (30°-60°) | 6308.7 | 48.4 | | | |
| FH (60°-80°) | 4128.2 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 58.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 437.8 | 3.4 | B1/500 | | |
| BM (30°-60°) | 996.9 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 306.1 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 |
| 2.5° | 1511.4 | 1521.9 | 1519.3 | 1516.7 | 1515.8 | 1517.6 | 1518.4 | 1517.6 | 1517.6 | 1517.6 | 1518.4 |
| 5° | 1482.6 | 1491.3 | 1491.3 | 1497.5 | 1506.2 | 1516.7 | 1524.6 | 1526.3 | 1528.1 | 1530.7 | 1529.8 |
| 7.5° | 1427.5 | 1434.5 | 1439.8 | 1459.9 | 1481.7 | 1509.7 | 1533.3 | 1545.5 | 1547.3 | 1556.9 | 1560.4 |
| 10° | 1389.9 | 1398.7 | 1407.4 | 1428.4 | 1459.9 | 1501.8 | 1542.0 | 1571.8 | 1576.1 | 1598.9 | 1609.3 |
| 12.5° | 1388.2 | 1396.9 | 1408.3 | 1431.0 | 1467.7 | 1512.3 | 1561.3 | 1604.1 | 1612.0 | 1645.2 | 1667.0 |
| 15° | 1406.5 | 1417.0 | 1427.5 | 1455.5 | 1494.8 | 1549.0 | 1601.5 | 1654.8 | 1662.7 | 1709.9 | 1733.5 |
| 17.5° | 1444.1 | 1458.1 | 1466.0 | 1494.0 | 1535.9 | 1596.2 | 1665.3 | 1726.5 | 1733.5 | 1788.6 | 1818.3 |
| 20° | 1518.4 | 1535.0 | 1537.7 | 1560.4 | 1601.5 | 1666.2 | 1748.3 | 1824.4 | 1833.1 | 1896.1 | 1929.3 |
| 22.5° | 1672.3 | 1695.9 | 1674.9 | 1686.3 | 1723.0 | 1787.7 | 1876.8 | 1973.0 | 1985.2 | 2056.9 | 2086.6 |
| 25° | 1943.3 | 1976.5 | 1922.3 | 1903.1 | 1918.8 | 1986.1 | 2098.0 | 2219.5 | 2233.5 | 2291.2 | 2306.1 |
| 27.5° | 2475.7 | 2432.8 | 2350.6 | 2270.2 | 2223.0 | 2261.5 | 2387.4 | 2537.7 | 2555.2 | 2611.2 | 2593.7 |
| 30° | 3060.5 | 3022.9 | 2911.9 | 2733.5 | 2621.6 | 2615.5 | 2731.8 | 2899.6 | 2919.7 | 2973.1 | 2919.7 |
| 32.5° | 3646.2 | 3610.3 | 3489.7 | 3270.3 | 3076.2 | 2980.1 | 3060.5 | 3246.7 | 3257.2 | 3291.3 | 3212.6 |
| 35° | 4222.2 | 4185.5 | 4064.9 | 3840.2 | 3601.6 | 3383.0 | 3367.3 | 3577.1 | 3580.6 | 3616.4 | 3499.3 |
| 37.5° | 4801.8 | 4771.2 | 4642.7 | 4422.4 | 4187.3 | 3885.7 | 3739.7 | 3890.1 | 3894.4 | 3929.4 | 3807.9 |
| 40° | 5215.3 | 5228.4 | 5140.1 | 4969.7 | 4767.7 | 4438.2 | 4157.6 | 4223.1 | 4196.9 | 4255.5 | 4182.9 |
| 42.5° | 5570.2 | 5596.4 | 5519.5 | 5433.8 | 5316.7 | 5026.5 | 4675.1 | 4663.7 | 4621.7 | 4653.2 | 4578.0 |
| 45° | 5877.1 | 5898.9 | 5829.8 | 5809.7 | 5807.1 | 5603.4 | 5240.7 | 5172.5 | 5113.9 | 5107.8 | 5017.7 |
| 47.5° | 5989.8 | 6031.8 | 6061.5 | 6128.8 | 6259.9 | 6174.3 | 5825.5 | 5719.7 | 5654.1 | 5606.1 | 5463.6 |
| 50° | 6032.7 | 6077.2 | 6178.6 | 6374.5 | 6684.8 | 6721.5 | 6407.7 | 6288.8 | 6208.4 | 6120.9 | 5911.1 |
| 52.5° | 5975.0 | 6054.5 | 6190.9 | 6520.4 | 6970.6 | 7160.3 | 6966.3 | 6862.2 | 6770.5 | 6628.0 | 6316.8 |
| 55° | 5634.9 | 5714.5 | 5993.3 | 6518.7 | 7113.1 | 7468.0 | 7494.3 | 7447.9 | 7344.8 | 7120.1 | 6644.6 |
| 57.5° | 4918.1 | 5036.1 | 5477.6 | 6296.7 | 7110.5 | 7732.9 | 8011.8 | 8045.0 | 7929.6 | 7607.9 | 6902.5 |
| 60° | 3925.0 | 4085.0 | 4623.5 | 5804.5 | 6891.1 | 7876.3 | 8465.5 | 8631.6 | 8509.2 | 8088.7 | 7111.4 |
| 62.5° | 2738.8 | 2924.1 | 3433.7 | 5033.5 | 6389.3 | 7773.1 | 8796.8 | 9103.6 | 9011.0 | 8518.8 | 7191.8 |
| 65° | 1670.5 | 1730.0 | 2140.8 | 3960.9 | 5536.1 | 7341.3 | 8899.1 | 9358.9 | 9328.3 | 8781.9 | 7072.9 |
| 67.5° | 1112.8 | 1162.6 | 1280.7 | 2716.1 | 4297.4 | 6478.5 | 8654.3 | 9314.3 | 9323.0 | 8739.1 | 6637.6 |
| 70° | 670.5 | 713.3 | 790.3 | 1579.6 | 2785.1 | 5127.9 | 7896.4 | 8746.1 | 8796.8 | 8166.5 | 5812.4 |
| 72.5° | 276.2 | 305.1 | 375.0 | 715.9 | 1442.4 | 3254.5 | 6287.9 | 7509.1 | 7627.1 | 6866.6 | 4460.9 |
| 75° | 156.5 | 171.3 | 220.3 | 359.3 | 625.9 | 1516.7 | 3808.8 | 5330.7 | 5504.7 | 4732.8 | 2683.7 |
| 77.5° | 104.0 | 111.0 | 142.5 | 232.5 | 352.3 | 517.5 | 1627.7 | 2777.2 | 3109.4 | 2584.9 | 1161.8 |
| 80° | 69.9 | 76.1 | 97.9 | 155.6 | 229.0 | 222.0 | 518.4 | 1028.9 | 1265.8 | 888.2 | 283.2 |
| 82.5° | 47.2 | 48.1 | 69.9 | 102.3 | 145.1 | 107.5 | 153.0 | 319.9 | 402.1 | 257.0 | 107.5 |
| 85° | 27.1 | 26.2 | 51.6 | 59.4 | 64.7 | 44.6 | 46.3 | 96.2 | 125.9 | 108.4 | 61.2 |
| 87.5° | 3.5 | 5.2 | 20.1 | 15.7 | 8.7 | 9.6 | 9.6 | 16.6 | 24.5 | 26.2 | 13.1 |
| 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° | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 | 1516.7 |
| 2.5° | 1518.4 | 1517.6 | 1514.9 | 1512.3 | 1506.2 | 1502.7 | 1504.4 | 1502.7 | 1501.8 | 1502.7 | 1506.2 |
| 5° | 1529.8 | 1527.2 | 1520.2 | 1511.4 | 1499.2 | 1484.3 | 1474.7 | 1460.7 | 1447.6 | 1439.8 | 1441.5 |
| 7.5° | 1560.4 | 1557.8 | 1548.2 | 1523.7 | 1484.3 | 1422.3 | 1365.5 | 1315.6 | 1278.0 | 1256.2 | 1257.1 |
| 10° | 1609.3 | 1605.0 | 1590.1 | 1535.9 | 1432.8 | 1297.3 | 1184.5 | 1091.0 | 1029.8 | 1000.9 | 998.3 |
| 12.5° | 1667.0 | 1661.8 | 1635.6 | 1524.6 | 1334.9 | 1123.3 | 967.7 | 863.7 | 806.9 | 781.5 | 778.9 |
| 15° | 1735.2 | 1728.2 | 1676.7 | 1470.4 | 1192.4 | 931.0 | 788.5 | 710.7 | 674.0 | 651.3 | 652.1 |
| 17.5° | 1820.0 | 1807.8 | 1707.3 | 1389.1 | 1037.6 | 784.1 | 678.4 | 619.8 | 587.4 | 565.6 | 563.8 |
| 20° | 1930.2 | 1910.1 | 1731.7 | 1292.0 | 895.2 | 691.5 | 604.1 | 555.1 | 530.6 | 511.4 | 507.9 |
| 22.5° | 2084.0 | 2055.2 | 1761.5 | 1187.1 | 794.6 | 627.7 | 549.0 | 513.1 | 493.0 | 471.2 | 467.7 |
| 25° | 2274.6 | 2240.5 | 1798.2 | 1090.1 | 725.6 | 572.6 | 508.8 | 479.0 | 455.4 | 430.1 | 427.5 |
| 27.5° | 2541.2 | 2480.0 | 1841.9 | 1010.5 | 666.1 | 525.4 | 472.1 | 438.8 | 411.7 | 390.8 | 386.4 |
| 30° | 2838.4 | 2737.9 | 1880.3 | 962.5 | 611.9 | 481.7 | 424.0 | 390.8 | 365.4 | 350.5 | 347.9 |
| 32.5° | 3119.9 | 2983.5 | 1905.7 | 941.5 | 563.0 | 431.8 | 371.5 | 335.7 | 316.5 | 312.1 | 314.7 |
| 35° | 3385.7 | 3205.6 | 1903.1 | 921.4 | 519.3 | 382.0 | 319.9 | 283.2 | 268.4 | 271.0 | 271.0 |
| 37.5° | 3691.6 | 3442.5 | 1884.7 | 889.9 | 483.4 | 336.6 | 275.4 | 243.0 | 229.9 | 230.8 | 234.3 |
| 40° | 4047.4 | 3716.1 | 1873.3 | 830.5 | 444.1 | 294.6 | 238.6 | 212.4 | 202.8 | 199.3 | 198.4 |
| 42.5° | 4426.8 | 3981.0 | 1875.1 | 763.2 | 395.1 | 257.0 | 213.3 | 191.4 | 182.7 | 180.1 | 179.2 |
| 45° | 4807.9 | 4233.6 | 1877.7 | 693.2 | 343.5 | 228.2 | 194.9 | 176.6 | 171.3 | 167.8 | 167.8 |
| 47.5° | 5166.4 | 4448.7 | 1828.8 | 618.0 | 292.8 | 206.3 | 180.1 | 167.8 | 163.5 | 159.1 | 159.1 |
| 50° | 5500.3 | 4592.0 | 1710.8 | 530.6 | 252.6 | 188.8 | 168.7 | 160.0 | 155.6 | 151.2 | 151.2 |
| 52.5° | 5759.9 | 4614.8 | 1515.8 | 440.6 | 224.7 | 175.7 | 161.7 | 153.9 | 148.6 | 144.2 | 143.4 |
| 55° | 5875.3 | 4472.3 | 1238.7 | 356.7 | 202.8 | 164.3 | 154.7 | 146.9 | 140.7 | 136.4 | 135.5 |
| 57.5° | 5845.6 | 4172.4 | 966.0 | 286.7 | 181.8 | 153.0 | 146.0 | 140.7 | 133.7 | 126.8 | 125.9 |
| 60° | 5699.6 | 3771.2 | 728.2 | 238.6 | 162.6 | 140.7 | 136.4 | 132.0 | 122.4 | 111.9 | 110.1 |
| 62.5° | 5447.0 | 3266.8 | 519.3 | 197.6 | 141.6 | 126.8 | 125.0 | 121.5 | 107.5 | 88.3 | 86.5 |
| 65° | 5060.6 | 2654.0 | 349.7 | 164.3 | 121.5 | 111.0 | 111.9 | 105.8 | 87.4 | 65.6 | 63.8 |
| 67.5° | 4495.9 | 1940.7 | 223.8 | 134.6 | 101.4 | 92.7 | 93.5 | 90.0 | 74.3 | 55.9 | 53.3 |
| 70° | 3776.4 | 1285.0 | 146.0 | 102.3 | 81.3 | 71.7 | 76.9 | 77.8 | 62.9 | 45.5 | 43.7 |
| 72.5° | 2768.5 | 758.8 | 102.3 | 76.1 | 59.4 | 49.8 | 62.9 | 64.7 | 50.7 | 34.1 | 32.3 |
| 75° | 1577.9 | 360.2 | 76.9 | 55.1 | 36.7 | 35.0 | 49.0 | 49.0 | 35.0 | 22.7 | 21.0 |
| 77.5° | 662.6 | 150.4 | 54.2 | 35.8 | 21.0 | 20.1 | 33.2 | 30.6 | 17.5 | 10.5 | 10.5 |
| 80° | 191.4 | 67.3 | 28.8 | 17.5 | 8.7 | 7.9 | 13.1 | 9.6 | 4.4 | 1.7 | 1.7 |
| 82.5° | 75.2 | 29.7 | 11.4 | 7.0 | 3.5 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 44.6 | 12.2 | 5.2 | 2.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.4 | 2.6 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)