

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: P882237

Luminaire Tested: **NVN-SB2A-735-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882237
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-SB2A-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9059 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

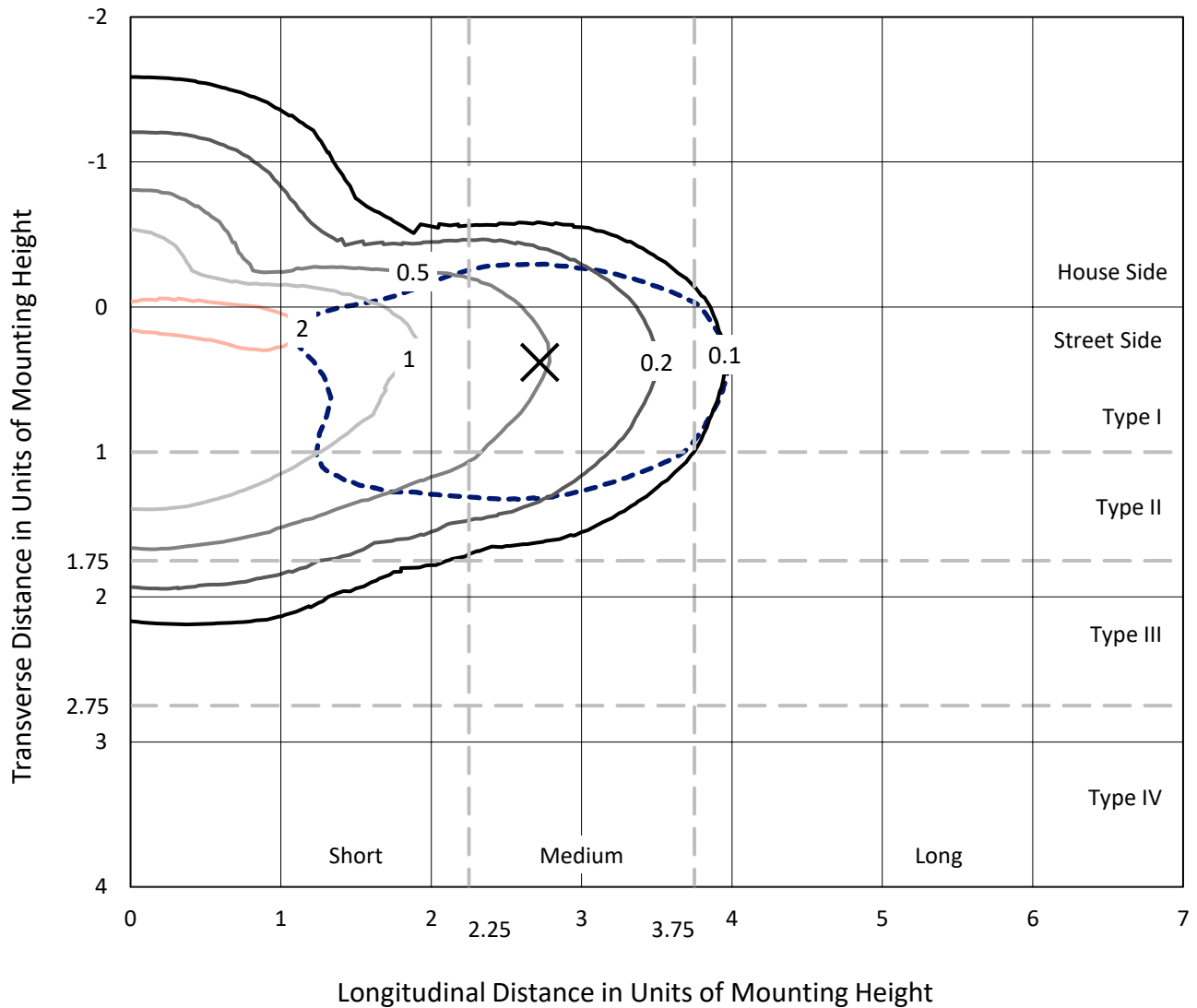
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

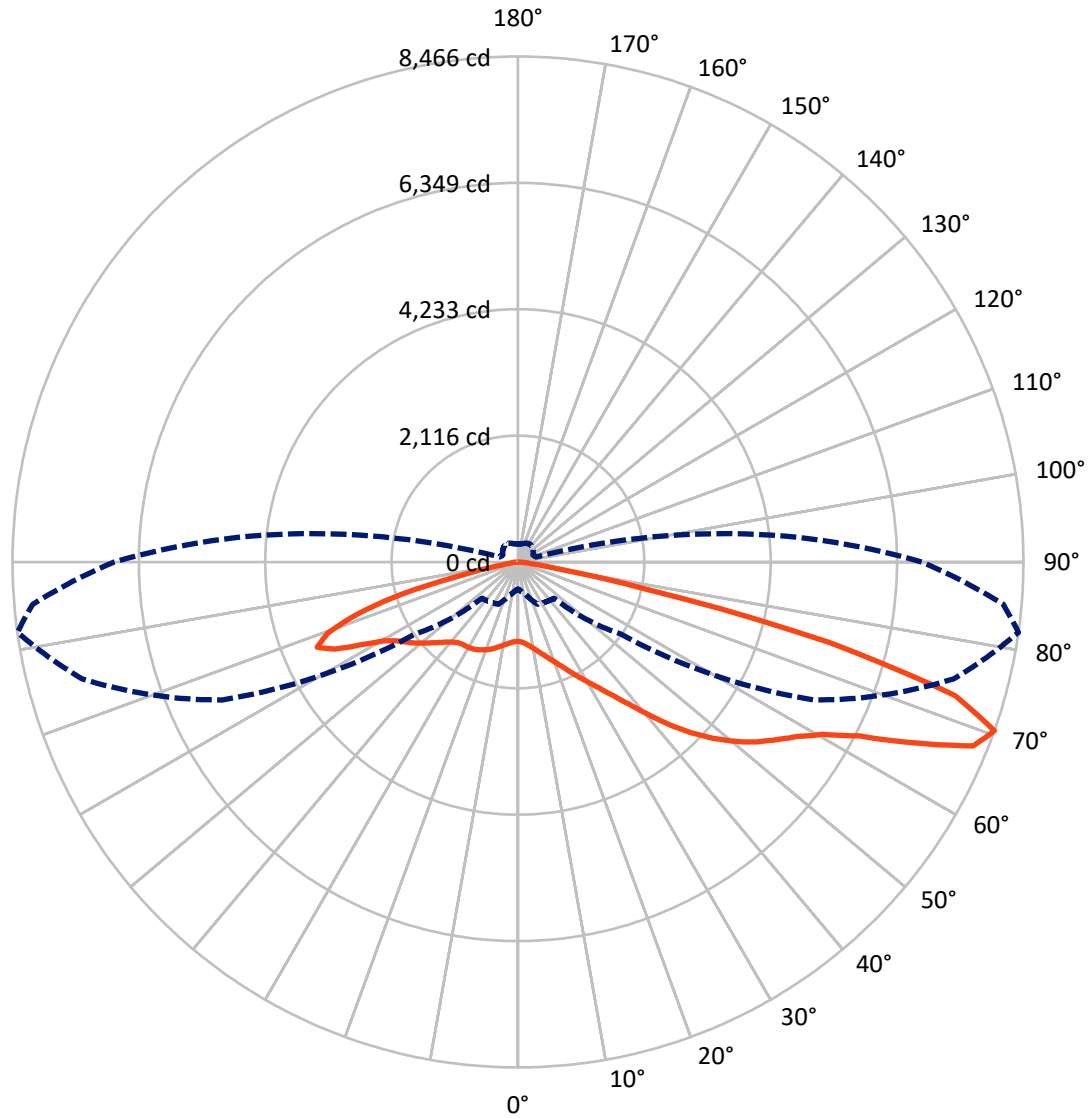
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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 | 2233.3 | 0.0 | 2233.3 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 6825.7 | 0.0 | 6825.7 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 9059.0 | 0.0 | 9059.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.4 | 1.4 |
| 10°-20° | 360.3 | 4.0 |
| 20°-30° | 602.7 | 6.7 |
| 30°-40° | 941.6 | 10.4 |
| 40°-50° | 1499.6 | 16.6 |
| 50°-60° | 2086.9 | 23.0 |
| 60°-70° | 2183.0 | 24.1 |
| 70°-80° | 1141.0 | 12.6 |
| 80°-90° | 118.5 | 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° | 9059.0 | 100.0 |
| 0°-180° | 9059.0 | 100.0 |

Coefficient of Utilization



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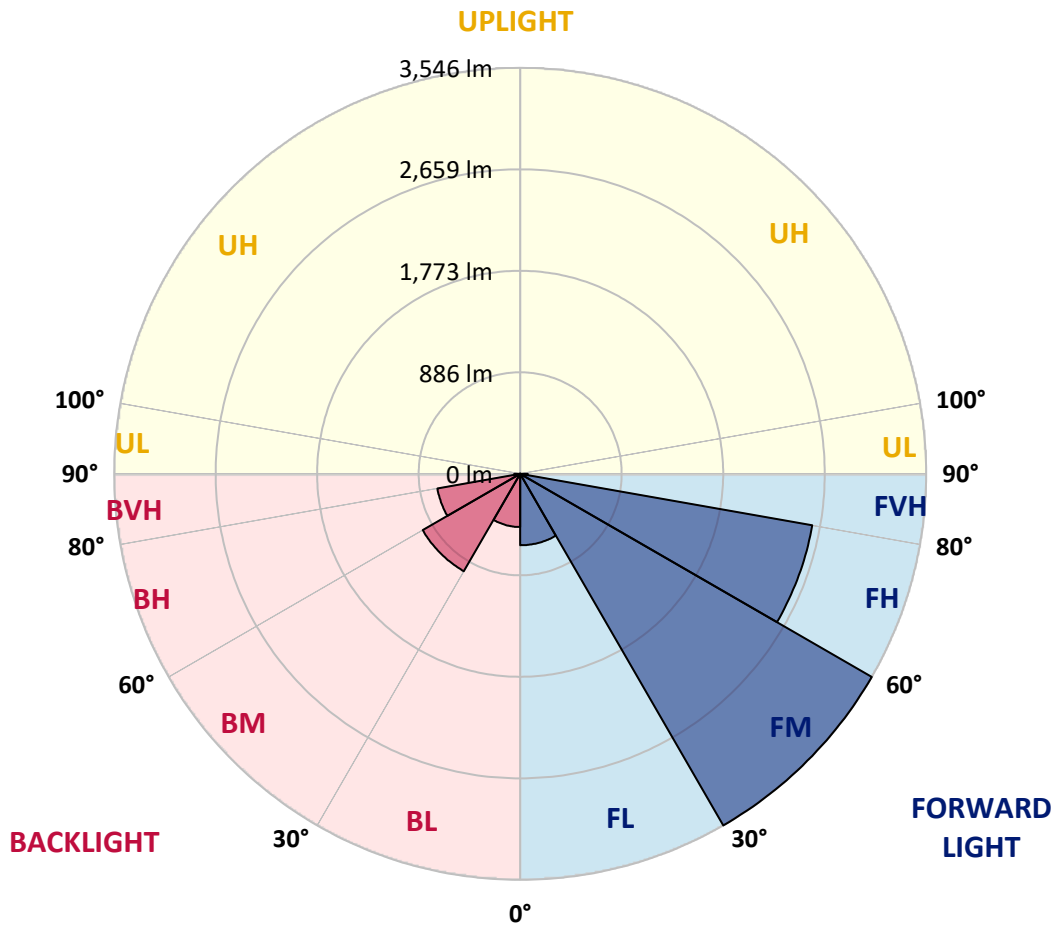
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 623.8 | 6.9 | | | |
| FM (30°-60°) | 3545.6 | 39.1 | | | |
| FH (60°-80°) | 2590.0 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 66.3 | 0.7 | | | G1/100 |
| BL (0°-30°) | 464.6 | 5.1 | B1/500 | | |
| BM (30°-60°) | 982.5 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 734.0 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 52.2 | 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° | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 |
| 2.5° | 1359.9 | 1367.6 | 1365.2 | 1362.8 | 1362.8 | 1359.4 | 1358.9 | 1354.1 | 1350.3 | 1344.0 | 1342.6 |
| 5° | 1377.2 | 1385.4 | 1384.4 | 1386.3 | 1392.6 | 1394.0 | 1395.5 | 1392.6 | 1384.9 | 1377.2 | 1373.8 |
| 7.5° | 1361.8 | 1370.9 | 1373.8 | 1385.4 | 1404.6 | 1421.9 | 1434.9 | 1440.2 | 1433.0 | 1421.9 | 1416.6 |
| 10° | 1309.9 | 1320.0 | 1330.1 | 1357.5 | 1391.6 | 1432.5 | 1467.1 | 1487.8 | 1486.3 | 1475.7 | 1466.6 |
| 12.5° | 1204.6 | 1215.2 | 1236.8 | 1290.2 | 1352.7 | 1424.8 | 1489.2 | 1532.5 | 1547.4 | 1539.7 | 1523.8 |
| 15° | 1120.5 | 1129.6 | 1146.0 | 1200.8 | 1282.0 | 1391.6 | 1497.4 | 1581.5 | 1619.5 | 1615.1 | 1595.9 |
| 17.5° | 1118.1 | 1121.9 | 1132.0 | 1158.0 | 1220.5 | 1339.7 | 1488.7 | 1629.6 | 1702.1 | 1701.7 | 1677.6 |
| 20° | 1160.4 | 1161.8 | 1167.6 | 1172.9 | 1208.5 | 1300.3 | 1466.6 | 1669.5 | 1794.9 | 1794.9 | 1769.0 |
| 22.5° | 1219.0 | 1218.1 | 1223.9 | 1219.0 | 1236.3 | 1296.9 | 1452.7 | 1704.5 | 1898.3 | 1906.0 | 1873.3 |
| 25° | 1307.0 | 1302.2 | 1300.8 | 1289.7 | 1293.1 | 1328.2 | 1468.0 | 1744.4 | 2020.8 | 2036.7 | 1995.8 |
| 27.5° | 1424.3 | 1416.6 | 1411.3 | 1385.8 | 1377.2 | 1392.6 | 1515.2 | 1792.5 | 2157.4 | 2184.8 | 2132.8 |
| 30° | 1577.2 | 1563.2 | 1555.5 | 1511.3 | 1480.1 | 1482.5 | 1586.3 | 1856.4 | 2300.1 | 2344.4 | 2278.5 |
| 32.5° | 1785.8 | 1764.2 | 1743.5 | 1670.9 | 1613.7 | 1594.9 | 1678.1 | 1944.9 | 2454.9 | 2525.6 | 2441.0 |
| 35° | 2019.4 | 2002.1 | 1980.0 | 1868.0 | 1780.0 | 1736.8 | 1802.1 | 2068.4 | 2636.1 | 2748.1 | 2638.1 |
| 37.5° | 2244.4 | 2229.5 | 2240.0 | 2089.1 | 1975.7 | 1912.7 | 1964.6 | 2234.3 | 2859.7 | 3025.0 | 2885.1 |
| 40° | 2477.0 | 2465.5 | 2466.9 | 2322.7 | 2190.5 | 2119.9 | 2161.7 | 2442.4 | 3115.9 | 3354.3 | 3182.2 |
| 42.5° | 2729.9 | 2721.2 | 2692.4 | 2564.5 | 2416.0 | 2350.1 | 2388.6 | 2682.8 | 3390.8 | 3729.2 | 3508.1 |
| 45° | 3013.0 | 3007.7 | 2980.8 | 2834.2 | 2664.0 | 2590.0 | 2641.9 | 2948.1 | 3667.2 | 4082.1 | 3835.5 |
| 47.5° | 3257.7 | 3262.0 | 3258.6 | 3135.1 | 2958.7 | 2850.0 | 2912.1 | 3225.0 | 3924.4 | 4413.7 | 4149.4 |
| 50° | 3375.4 | 3398.0 | 3431.2 | 3392.8 | 3283.2 | 3172.6 | 3184.6 | 3492.3 | 4169.6 | 4724.8 | 4450.3 |
| 52.5° | 3313.9 | 3356.7 | 3447.1 | 3508.6 | 3550.9 | 3527.8 | 3495.6 | 3757.6 | 4400.3 | 5005.5 | 4734.9 |
| 55° | 3084.6 | 3144.7 | 3294.7 | 3443.2 | 3659.1 | 3826.8 | 3869.1 | 4051.8 | 4625.3 | 5252.6 | 5004.0 |
| 57.5° | 2666.9 | 2764.5 | 2899.1 | 3199.5 | 3562.9 | 3971.5 | 4304.6 | 4459.9 | 4863.7 | 5516.5 | 5285.7 |
| 60° | 1950.7 | 2081.4 | 2248.7 | 2695.7 | 3226.4 | 3894.1 | 4675.2 | 5086.7 | 5202.6 | 5858.2 | 5652.5 |
| 62.5° | 1248.4 | 1329.1 | 1482.9 | 1904.0 | 2514.0 | 3497.5 | 4788.7 | 5870.3 | 5777.0 | 6418.7 | 6202.4 |
| 65° | 854.7 | 906.6 | 1047.4 | 1283.9 | 1625.2 | 2603.4 | 4484.9 | 6457.7 | 6689.4 | 7307.1 | 7142.7 |
| 67.5° | 621.1 | 660.5 | 780.7 | 987.8 | 1059.0 | 1540.6 | 3480.2 | 6430.7 | 7576.2 | 8222.3 | 7966.6 |
| 70° | 452.8 | 480.7 | 581.6 | 780.7 | 814.8 | 857.1 | 2108.3 | 5466.5 | 7557.0 | 8465.5 | 8159.3 |
| 72.5° | 335.5 | 354.8 | 422.5 | 605.7 | 659.5 | 578.8 | 1043.6 | 3973.0 | 6493.7 | 7657.0 | 7411.4 |
| 75° | 242.8 | 257.2 | 307.2 | 463.4 | 527.8 | 440.8 | 520.6 | 2321.8 | 4529.6 | 5386.2 | 5429.5 |
| 77.5° | 185.5 | 196.6 | 229.3 | 339.4 | 422.5 | 330.7 | 323.0 | 1068.1 | 2147.7 | 2158.3 | 2279.5 |
| 80° | 149.0 | 156.2 | 174.0 | 238.9 | 324.0 | 247.6 | 210.5 | 431.2 | 678.7 | 574.4 | 602.8 |
| 82.5° | 109.6 | 121.6 | 147.1 | 167.8 | 231.7 | 170.6 | 128.3 | 217.8 | 258.1 | 222.1 | 224.0 |
| 85° | 62.5 | 70.7 | 88.9 | 120.2 | 148.1 | 104.3 | 73.5 | 96.6 | 120.2 | 98.5 | 88.0 |
| 87.5° | 22.1 | 28.8 | 31.2 | 47.1 | 64.4 | 43.3 | 28.4 | 27.9 | 39.4 | 29.3 | 24.5 |
| 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° | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 | 1328.2 |
| 2.5° | 1337.8 | 1335.4 | 1325.8 | 1312.8 | 1299.3 | 1286.3 | 1282.0 | 1272.9 | 1266.6 | 1263.3 | 1267.1 |
| 5° | 1364.7 | 1357.0 | 1334.4 | 1305.6 | 1275.3 | 1242.6 | 1219.5 | 1198.4 | 1183.0 | 1168.6 | 1174.3 |
| 7.5° | 1403.2 | 1389.7 | 1350.8 | 1300.3 | 1246.4 | 1192.1 | 1151.7 | 1121.0 | 1100.3 | 1086.9 | 1089.7 |
| 10° | 1447.9 | 1427.2 | 1367.6 | 1292.1 | 1209.0 | 1131.1 | 1083.5 | 1057.1 | 1044.1 | 1036.9 | 1038.8 |
| 12.5° | 1499.3 | 1470.0 | 1384.9 | 1273.4 | 1151.7 | 1062.8 | 1030.1 | 1022.4 | 1022.9 | 1023.4 | 1024.4 |
| 15° | 1562.7 | 1521.9 | 1398.8 | 1232.5 | 1077.2 | 1010.4 | 1004.7 | 1017.2 | 1030.1 | 1036.4 | 1035.9 |
| 17.5° | 1634.4 | 1576.7 | 1401.2 | 1165.2 | 1004.2 | 976.8 | 995.0 | 1022.0 | 1041.7 | 1050.3 | 1052.2 |
| 20° | 1711.3 | 1632.4 | 1383.9 | 1070.0 | 944.1 | 949.4 | 982.1 | 1016.7 | 1038.3 | 1049.4 | 1052.2 |
| 22.5° | 1799.2 | 1692.0 | 1342.6 | 970.0 | 895.1 | 919.6 | 958.0 | 991.7 | 1014.3 | 1025.3 | 1028.2 |
| 25° | 1899.7 | 1758.9 | 1277.7 | 885.9 | 852.8 | 885.9 | 924.4 | 952.3 | 970.5 | 980.6 | 983.5 |
| 27.5° | 2011.2 | 1828.6 | 1191.2 | 819.1 | 815.7 | 851.3 | 883.0 | 904.7 | 914.3 | 922.0 | 924.9 |
| 30° | 2123.2 | 1892.0 | 1086.4 | 768.6 | 783.5 | 817.2 | 839.8 | 849.4 | 852.3 | 853.7 | 857.1 |
| 32.5° | 2244.4 | 1946.8 | 976.3 | 726.8 | 752.8 | 784.0 | 797.5 | 801.8 | 788.3 | 779.2 | 782.1 |
| 35° | 2391.0 | 2005.5 | 868.6 | 693.6 | 722.5 | 749.4 | 753.7 | 749.9 | 734.0 | 715.3 | 716.2 |
| 37.5° | 2572.2 | 2078.5 | 782.6 | 670.1 | 694.1 | 711.9 | 706.6 | 705.7 | 707.1 | 685.0 | 686.4 |
| 40° | 2794.3 | 2173.7 | 719.6 | 651.8 | 671.1 | 674.9 | 660.0 | 668.2 | 675.4 | 641.7 | 642.7 |
| 42.5° | 3040.9 | 2288.6 | 679.7 | 639.3 | 651.8 | 642.7 | 619.6 | 628.8 | 627.8 | 583.6 | 583.1 |
| 45° | 3292.3 | 2413.6 | 665.8 | 630.2 | 634.0 | 615.8 | 590.3 | 592.7 | 572.5 | 532.6 | 534.1 |
| 47.5° | 3542.2 | 2547.7 | 674.4 | 622.5 | 611.9 | 591.3 | 571.5 | 561.0 | 531.2 | 501.4 | 501.4 |
| 50° | 3787.4 | 2688.5 | 706.1 | 607.1 | 581.6 | 569.6 | 555.2 | 536.5 | 504.7 | 479.3 | 477.3 |
| 52.5° | 4014.8 | 2830.3 | 741.7 | 581.6 | 543.7 | 550.9 | 541.7 | 520.1 | 488.9 | 462.9 | 463.4 |
| 55° | 4230.1 | 2972.1 | 755.7 | 546.6 | 508.1 | 534.5 | 529.2 | 489.3 | 451.9 | 430.7 | 428.8 |
| 57.5° | 4464.7 | 3142.8 | 740.3 | 501.8 | 479.3 | 515.8 | 495.6 | 451.4 | 429.7 | 413.9 | 412.4 |
| 60° | 4789.7 | 3410.5 | 707.1 | 446.6 | 451.9 | 487.9 | 453.3 | 435.0 | 411.5 | 393.7 | 392.7 |
| 62.5° | 5329.5 | 3910.0 | 653.7 | 391.8 | 419.6 | 446.6 | 433.1 | 414.8 | 390.8 | 373.5 | 373.5 |
| 65° | 6127.4 | 4604.1 | 553.3 | 349.0 | 383.6 | 406.2 | 411.5 | 393.2 | 368.2 | 349.9 | 350.9 |
| 67.5° | 6800.4 | 5039.6 | 418.7 | 313.4 | 346.6 | 373.5 | 388.4 | 370.6 | 344.2 | 326.4 | 326.9 |
| 70° | 6763.4 | 4723.3 | 319.7 | 278.3 | 313.9 | 341.3 | 360.5 | 346.6 | 318.2 | 301.4 | 302.8 |
| 72.5° | 6007.3 | 3951.3 | 258.6 | 242.8 | 280.7 | 307.6 | 330.7 | 320.1 | 291.3 | 275.0 | 275.0 |
| 75° | 4413.3 | 2804.9 | 206.7 | 206.7 | 239.4 | 272.6 | 298.0 | 291.3 | 264.9 | 253.3 | 250.0 |
| 77.5° | 1860.3 | 1176.7 | 162.0 | 171.6 | 199.0 | 234.1 | 265.8 | 268.2 | 245.2 | 259.6 | 235.5 |
| 80° | 494.6 | 324.5 | 123.5 | 135.1 | 156.2 | 193.2 | 231.2 | 230.3 | 205.3 | 191.8 | 178.3 |
| 82.5° | 188.4 | 127.9 | 88.0 | 95.2 | 113.0 | 148.1 | 183.1 | 188.9 | 163.9 | 141.8 | 141.8 |
| 85° | 72.6 | 54.8 | 54.3 | 57.2 | 65.9 | 98.1 | 138.4 | 143.2 | 123.5 | 104.8 | 108.2 |
| 87.5° | 18.7 | 16.3 | 20.2 | 19.2 | 30.3 | 52.4 | 79.3 | 82.2 | 75.5 | 43.7 | 62.5 |
| 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)