

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: P882071

Luminaire Tested: **NVN-SB1D-735-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10066 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

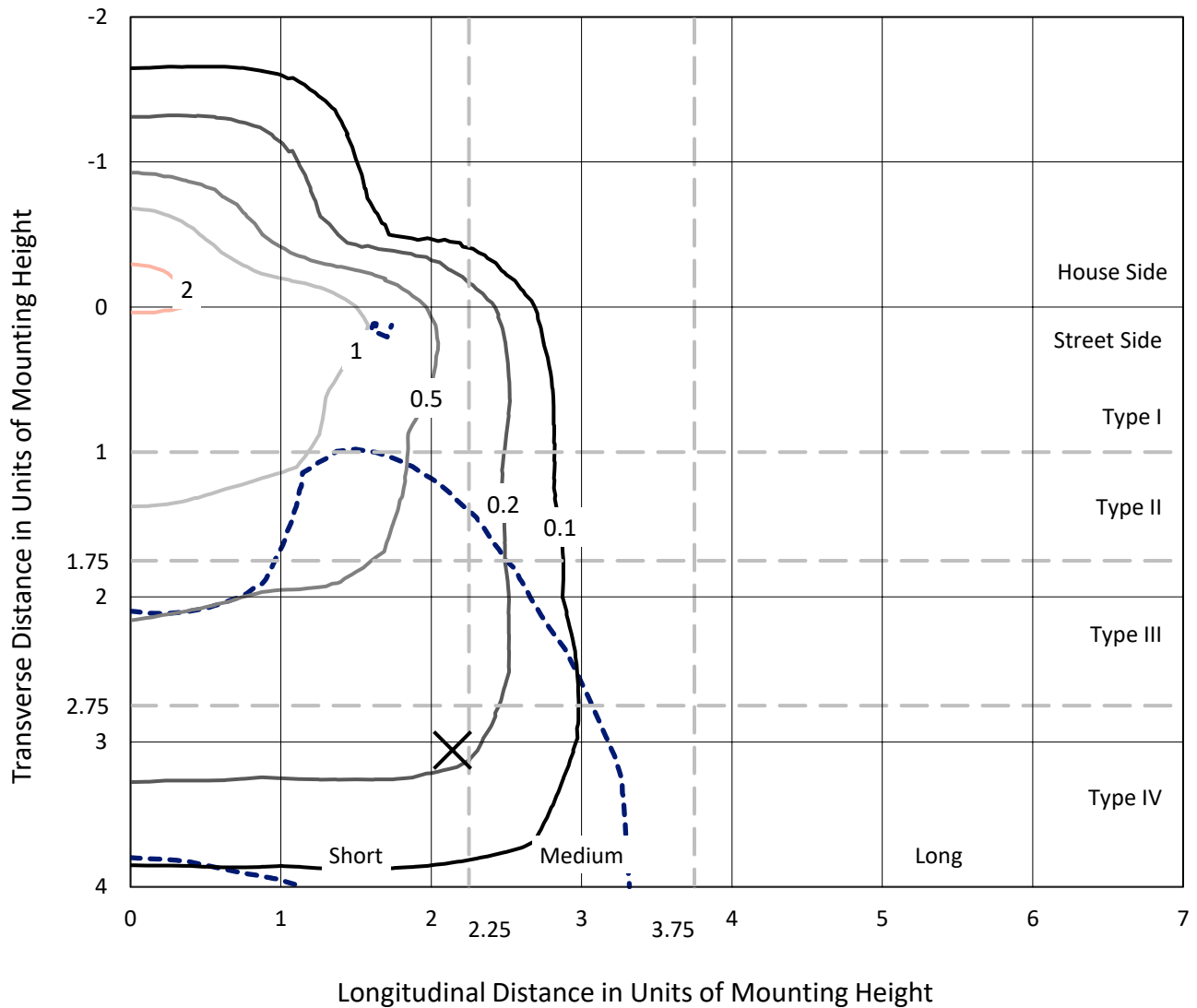
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

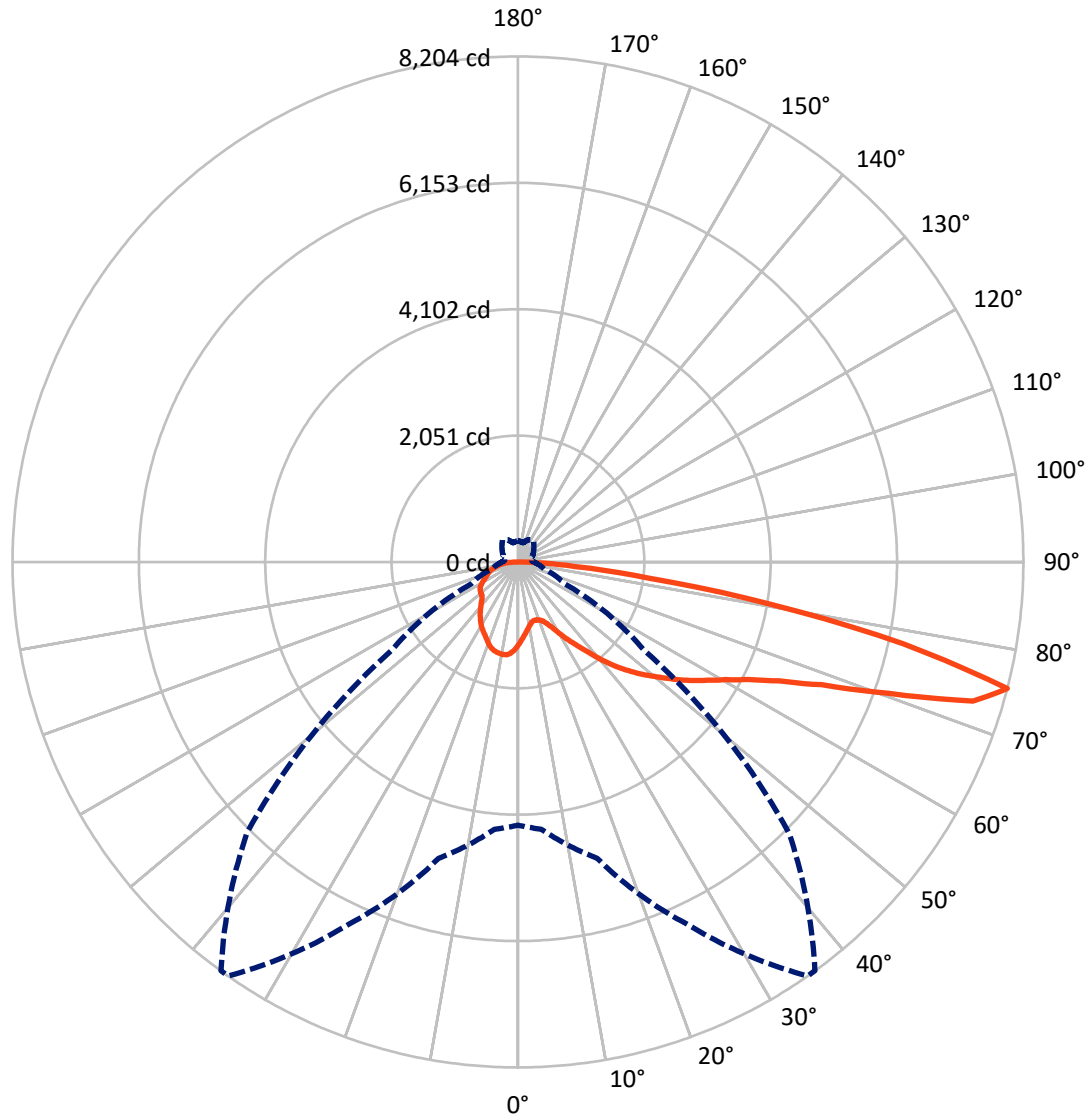
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2395.5 | 0.0 | 2395.5 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 7670.5 | 0.0 | 7670.5 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 10066.0 | 0.0 | 10066.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 127.0 | 1.3 |
| 10°-20° | 366.3 | 3.6 |
| 20°-30° | 615.2 | 6.1 |
| 30°-40° | 956.0 | 9.5 |
| 40°-50° | 1419.0 | 14.1 |
| 50°-60° | 1959.0 | 19.5 |
| 60°-70° | 2376.7 | 23.6 |
| 70°-80° | 1964.2 | 19.5 |
| 80°-90° | 282.5 | 2.8 |
| 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° | 10066.0 | 100.0 |
| 0°-180° | 10066.0 | 100.0 |

Coefficient of Utilization



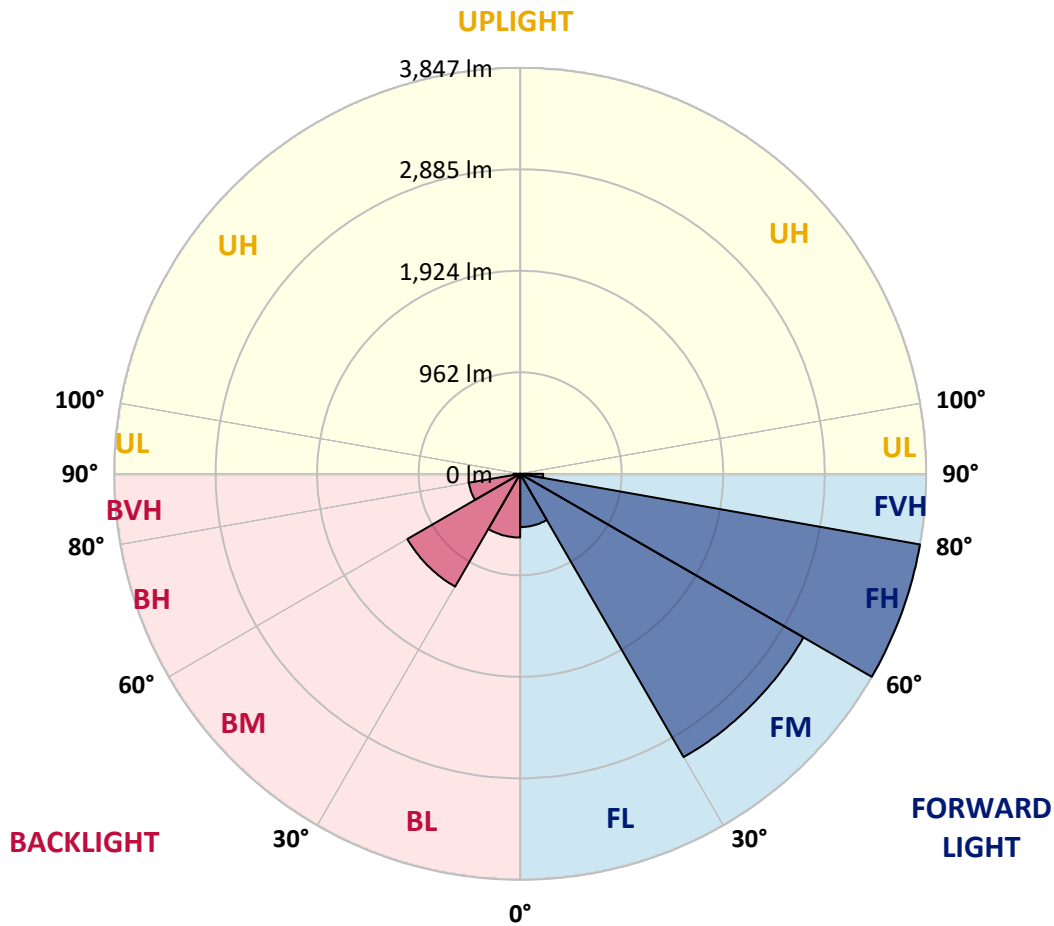
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 504.8 | 5.0 | | | |
| FM (30°-60°) | 3099.8 | 30.8 | | | |
| FH (60°-80°) | 3847.1 | 38.2 | | | G2/5000 |
| FVH (80°-90°) | 218.9 | 2.2 | | | G2/225 |
| BL (0°-30°) | 603.7 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1234.3 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 493.9 | 4.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 63.6 | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 |
| 2.5° | 1236.9 | 1244.5 | 1247.8 | 1246.1 | 1254.3 | 1253.2 | 1264.6 | 1278.8 | 1298.4 | 1317.4 | 1345.2 |
| 5° | 1141.7 | 1149.8 | 1156.9 | 1163.4 | 1179.2 | 1184.1 | 1202.1 | 1229.3 | 1265.2 | 1301.6 | 1347.3 |
| 7.5° | 1053.0 | 1060.0 | 1070.9 | 1082.9 | 1109.5 | 1114.4 | 1144.4 | 1186.8 | 1236.9 | 1290.2 | 1353.3 |
| 10° | 980.6 | 987.7 | 999.1 | 1012.7 | 1045.9 | 1051.9 | 1090.0 | 1146.6 | 1211.9 | 1279.3 | 1359.9 |
| 12.5° | 949.6 | 951.7 | 958.3 | 971.9 | 1000.7 | 1004.5 | 1046.4 | 1111.2 | 1187.4 | 1271.2 | 1369.7 |
| 15° | 947.9 | 952.3 | 952.8 | 959.9 | 983.8 | 985.5 | 1024.1 | 1088.3 | 1172.1 | 1269.5 | 1384.4 |
| 17.5° | 964.3 | 967.5 | 962.6 | 967.0 | 987.1 | 989.8 | 1020.3 | 1077.4 | 1167.2 | 1276.6 | 1409.4 |
| 20° | 1007.8 | 1010.5 | 995.8 | 989.8 | 1004.5 | 1006.7 | 1036.6 | 1084.5 | 1172.1 | 1291.3 | 1443.7 |
| 22.5° | 1100.3 | 1101.9 | 1066.0 | 1041.5 | 1042.6 | 1043.7 | 1069.8 | 1113.4 | 1191.2 | 1318.0 | 1487.2 |
| 25° | 1244.5 | 1243.4 | 1186.3 | 1138.9 | 1111.7 | 1105.7 | 1123.2 | 1160.2 | 1223.3 | 1353.3 | 1543.2 |
| 27.5° | 1413.2 | 1405.0 | 1347.9 | 1277.2 | 1217.8 | 1209.1 | 1205.3 | 1221.1 | 1269.0 | 1400.1 | 1611.8 |
| 30° | 1603.6 | 1596.0 | 1534.5 | 1442.0 | 1359.9 | 1345.7 | 1309.8 | 1301.6 | 1337.0 | 1463.8 | 1707.0 |
| 32.5° | 1812.6 | 1807.7 | 1734.2 | 1622.2 | 1512.2 | 1495.9 | 1435.5 | 1413.7 | 1441.5 | 1560.1 | 1839.8 |
| 35° | 1987.8 | 1983.5 | 1922.5 | 1807.2 | 1672.8 | 1652.6 | 1591.1 | 1566.6 | 1580.8 | 1683.6 | 2013.4 |
| 37.5° | 2146.2 | 2144.0 | 2091.8 | 2000.9 | 1862.1 | 1837.6 | 1768.5 | 1760.4 | 1757.6 | 1846.3 | 2224.0 |
| 40° | 2293.1 | 2287.7 | 2233.2 | 2185.4 | 2082.5 | 2060.2 | 1999.3 | 1992.2 | 1971.5 | 2046.6 | 2462.3 |
| 42.5° | 2455.8 | 2441.7 | 2362.8 | 2340.4 | 2312.7 | 2294.2 | 2257.7 | 2258.8 | 2213.1 | 2272.4 | 2714.8 |
| 45° | 2588.6 | 2580.4 | 2499.3 | 2486.3 | 2516.2 | 2508.6 | 2540.2 | 2548.3 | 2459.6 | 2509.1 | 2977.1 |
| 47.5° | 2731.2 | 2723.5 | 2655.0 | 2645.7 | 2726.8 | 2729.0 | 2840.5 | 2843.3 | 2700.1 | 2755.1 | 3239.9 |
| 50° | 2906.9 | 2896.0 | 2828.0 | 2839.4 | 2930.3 | 2938.5 | 3142.5 | 3124.0 | 2921.6 | 3004.9 | 3500.6 |
| 52.5° | 3022.8 | 3029.4 | 3014.7 | 3033.2 | 3157.2 | 3164.9 | 3439.7 | 3392.3 | 3140.9 | 3251.4 | 3756.4 |
| 55° | 3108.3 | 3121.3 | 3167.0 | 3209.5 | 3396.7 | 3404.3 | 3719.9 | 3647.5 | 3322.7 | 3479.9 | 3996.9 |
| 57.5° | 3218.2 | 3199.7 | 3285.1 | 3367.8 | 3624.1 | 3644.3 | 3992.5 | 3893.5 | 3483.7 | 3676.9 | 4161.8 |
| 60° | 3376.0 | 3362.9 | 3429.3 | 3551.8 | 3878.8 | 3910.9 | 4280.9 | 4115.0 | 3601.8 | 3833.1 | 4193.9 |
| 62.5° | 3696.0 | 3663.3 | 3673.6 | 3781.9 | 4199.9 | 4242.3 | 4606.3 | 4308.1 | 3660.6 | 3894.0 | 4021.9 |
| 65° | 4174.3 | 4118.2 | 4066.0 | 4141.1 | 4652.1 | 4694.0 | 4973.7 | 4460.0 | 3638.8 | 3775.9 | 3565.4 |
| 67.5° | 4776.7 | 4721.2 | 4656.9 | 4727.7 | 5318.1 | 5351.3 | 5426.9 | 4545.4 | 3467.4 | 3321.0 | 2758.4 |
| 70° | 5273.5 | 5252.8 | 5329.5 | 5620.7 | 6381.9 | 6383.0 | 6008.1 | 4474.7 | 2997.8 | 2354.6 | 1596.0 |
| 72.5° | 5207.6 | 5195.1 | 5599.4 | 6499.5 | 7722.8 | 7693.9 | 6558.3 | 3939.2 | 2019.4 | 1062.2 | 598.0 |
| 75° | 4272.2 | 4353.3 | 4979.6 | 6483.7 | 8204.4 | 8200.5 | 6221.4 | 2504.2 | 835.3 | 440.2 | 309.1 |
| 77.5° | 2290.9 | 2419.4 | 3232.9 | 4787.0 | 6404.8 | 6501.1 | 4374.0 | 876.1 | 358.6 | 281.9 | 213.9 |
| 80° | 747.1 | 859.2 | 1288.6 | 2437.3 | 4161.8 | 4143.8 | 1874.6 | 343.9 | 245.4 | 199.7 | 148.0 |
| 82.5° | 317.2 | 330.3 | 575.7 | 1150.9 | 2135.8 | 2102.6 | 596.9 | 197.5 | 172.5 | 136.6 | 91.4 |
| 85° | 124.1 | 138.8 | 254.1 | 532.2 | 925.1 | 904.9 | 215.5 | 97.9 | 110.5 | 89.2 | 54.4 |
| 87.5° | 40.8 | 49.5 | 90.9 | 182.3 | 287.9 | 277.5 | 52.8 | 33.7 | 47.9 | 40.8 | 19.6 |
| 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° | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 |
| 2.5° | 1352.8 | 1361.5 | 1371.8 | 1387.1 | 1400.1 | 1411.0 | 1422.4 | 1429.5 | 1432.2 | 1440.4 | 1439.9 |
| 5° | 1362.6 | 1381.6 | 1407.2 | 1432.2 | 1456.7 | 1471.4 | 1484.5 | 1491.0 | 1497.0 | 1501.3 | 1502.4 |
| 7.5° | 1378.9 | 1403.4 | 1443.7 | 1476.3 | 1497.0 | 1509.0 | 1517.7 | 1515.5 | 1517.7 | 1518.8 | 1520.4 |
| 10° | 1393.1 | 1427.3 | 1475.2 | 1506.2 | 1522.0 | 1522.6 | 1520.4 | 1512.8 | 1509.0 | 1509.5 | 1510.6 |
| 12.5° | 1409.9 | 1448.0 | 1499.7 | 1525.8 | 1530.2 | 1518.2 | 1509.0 | 1495.9 | 1491.0 | 1488.8 | 1487.7 |
| 15° | 1432.8 | 1476.3 | 1526.4 | 1536.2 | 1525.3 | 1510.1 | 1494.3 | 1473.1 | 1462.2 | 1453.5 | 1456.2 |
| 17.5° | 1460.5 | 1508.4 | 1547.1 | 1540.0 | 1516.6 | 1491.6 | 1466.0 | 1433.9 | 1411.6 | 1402.3 | 1402.9 |
| 20° | 1499.2 | 1542.2 | 1562.8 | 1531.8 | 1496.4 | 1458.4 | 1414.8 | 1375.6 | 1355.0 | 1345.7 | 1344.6 |
| 22.5° | 1546.0 | 1587.3 | 1578.1 | 1517.7 | 1467.6 | 1406.7 | 1352.2 | 1323.4 | 1313.1 | 1306.5 | 1307.6 |
| 25° | 1602.0 | 1637.4 | 1589.0 | 1497.0 | 1420.3 | 1338.1 | 1296.2 | 1286.9 | 1282.0 | 1277.2 | 1277.2 |
| 27.5° | 1674.9 | 1694.0 | 1597.1 | 1466.5 | 1346.3 | 1265.2 | 1249.9 | 1251.6 | 1249.9 | 1241.8 | 1243.4 |
| 30° | 1771.3 | 1767.4 | 1604.7 | 1417.0 | 1261.4 | 1199.3 | 1200.4 | 1207.5 | 1208.6 | 1203.1 | 1205.9 |
| 32.5° | 1898.0 | 1859.4 | 1608.5 | 1352.8 | 1180.3 | 1141.7 | 1142.7 | 1150.4 | 1155.8 | 1146.6 | 1150.9 |
| 35° | 2051.5 | 1966.6 | 1602.6 | 1272.3 | 1117.7 | 1086.7 | 1078.5 | 1080.7 | 1082.3 | 1073.6 | 1079.6 |
| 37.5° | 2230.5 | 2086.9 | 1575.9 | 1183.0 | 1066.0 | 1032.8 | 1015.4 | 1000.7 | 992.0 | 983.8 | 989.3 |
| 40° | 2427.0 | 2218.0 | 1526.9 | 1095.9 | 1008.3 | 975.7 | 949.6 | 921.8 | 892.4 | 881.5 | 886.4 |
| 42.5° | 2632.7 | 2353.0 | 1467.6 | 1012.7 | 941.9 | 915.3 | 887.5 | 847.3 | 803.2 | 780.9 | 783.6 |
| 45° | 2846.0 | 2491.2 | 1409.4 | 930.5 | 873.9 | 862.5 | 830.4 | 782.0 | 734.1 | 705.8 | 703.6 |
| 47.5° | 3054.9 | 2621.8 | 1323.9 | 847.8 | 810.3 | 822.8 | 797.7 | 753.1 | 699.8 | 655.2 | 650.3 |
| 50° | 3254.6 | 2744.2 | 1184.1 | 764.0 | 758.6 | 810.8 | 786.9 | 722.6 | 661.7 | 604.6 | 599.7 |
| 52.5° | 3452.7 | 2843.3 | 1005.1 | 687.8 | 730.8 | 807.5 | 772.7 | 702.0 | 627.4 | 567.6 | 561.0 |
| 55° | 3620.9 | 2894.4 | 832.6 | 622.5 | 690.5 | 779.8 | 755.8 | 677.5 | 579.0 | 515.3 | 509.9 |
| 57.5° | 3716.6 | 2853.0 | 688.9 | 558.3 | 635.0 | 734.1 | 727.0 | 625.2 | 521.3 | 472.3 | 465.8 |
| 60° | 3675.3 | 2685.4 | 571.4 | 502.3 | 582.3 | 684.6 | 676.9 | 573.5 | 477.2 | 431.0 | 424.4 |
| 62.5° | 3447.3 | 2366.0 | 478.3 | 453.3 | 534.4 | 634.0 | 626.9 | 533.8 | 443.5 | 398.9 | 391.8 |
| 65° | 2988.0 | 1924.7 | 405.9 | 412.5 | 485.9 | 573.0 | 583.3 | 500.6 | 416.8 | 373.3 | 366.2 |
| 67.5° | 2279.0 | 1394.1 | 349.4 | 377.1 | 438.6 | 513.1 | 543.1 | 476.7 | 394.5 | 353.2 | 346.6 |
| 70° | 1298.9 | 791.8 | 301.5 | 342.8 | 396.7 | 457.6 | 512.1 | 457.6 | 370.6 | 336.3 | 331.9 |
| 72.5° | 492.5 | 363.5 | 260.7 | 308.5 | 356.4 | 410.8 | 477.8 | 427.7 | 342.8 | 317.2 | 312.9 |
| 75° | 262.8 | 221.5 | 219.3 | 268.3 | 310.2 | 365.1 | 434.8 | 398.3 | 322.1 | 335.2 | 346.1 |
| 77.5° | 179.0 | 156.7 | 183.4 | 229.6 | 259.6 | 314.5 | 389.1 | 353.7 | 279.2 | 278.1 | 256.3 |
| 80° | 124.1 | 111.0 | 149.1 | 185.0 | 200.8 | 264.5 | 339.6 | 303.6 | 227.5 | 212.2 | 203.0 |
| 82.5° | 74.6 | 72.4 | 111.6 | 138.2 | 142.0 | 204.1 | 281.3 | 254.7 | 186.1 | 162.2 | 163.2 |
| 85° | 40.8 | 43.0 | 71.3 | 81.1 | 82.7 | 142.6 | 220.4 | 197.0 | 143.1 | 120.3 | 121.3 |
| 87.5° | 11.4 | 14.7 | 26.1 | 32.1 | 39.7 | 74.0 | 131.1 | 117.0 | 71.8 | 50.1 | 50.1 |
| 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)