

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: P960376

Luminaire Tested: **NVN-SB1C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8053.4 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

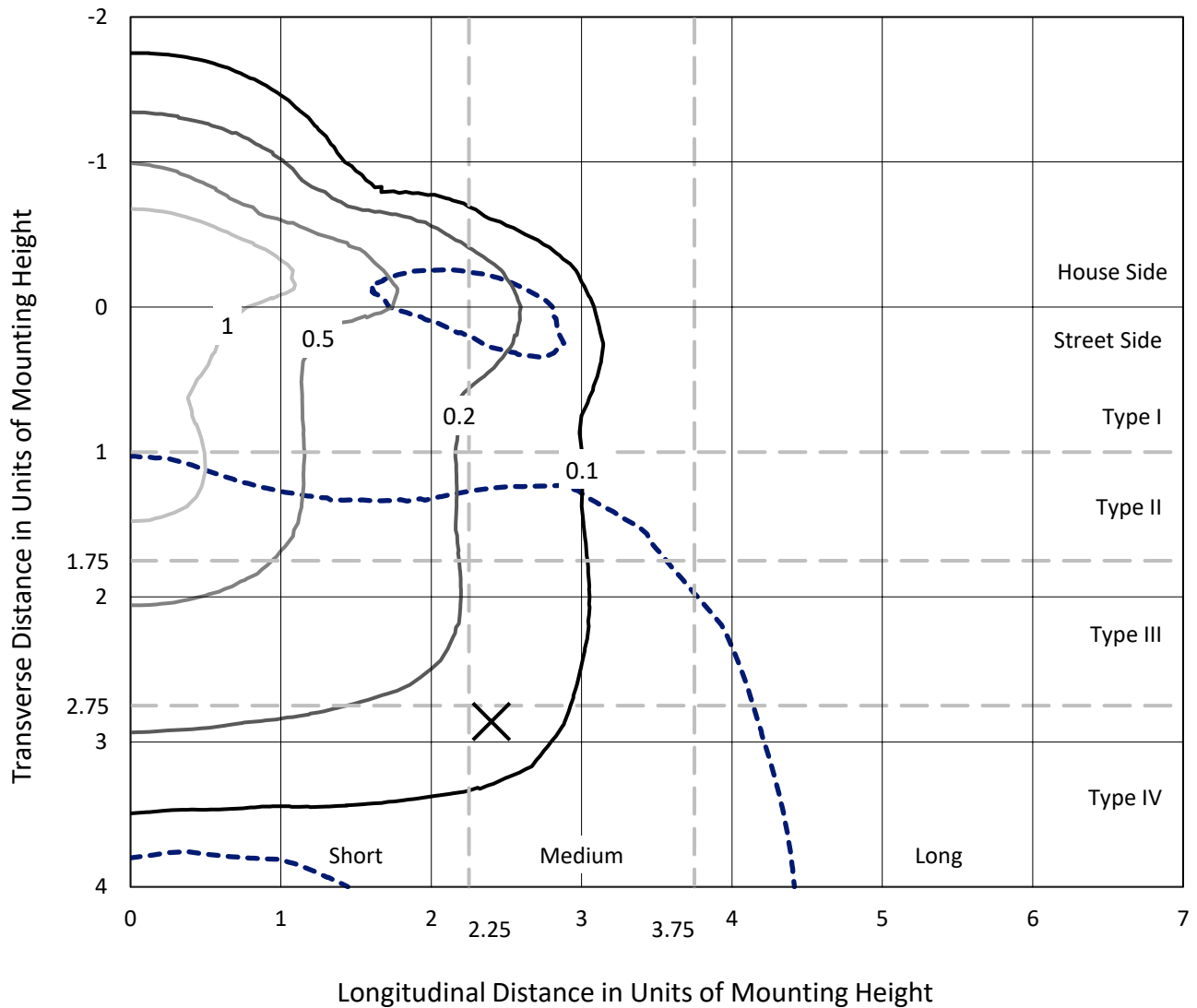
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

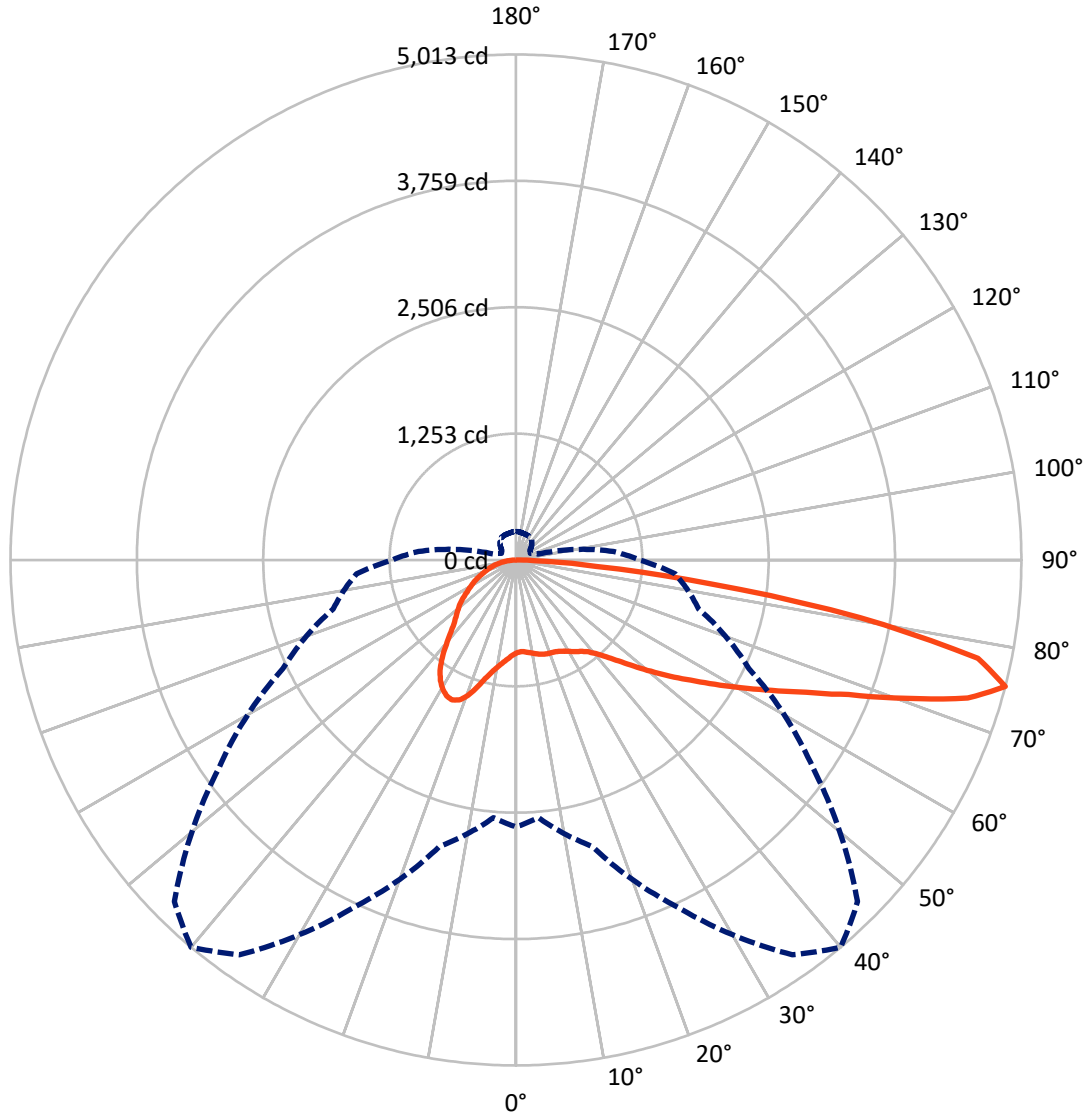
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2495.2 | 0.0 | 2495.2 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 5558.2 | 0.0 | 5558.2 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 8053.4 | 0.0 | 8053.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.9 | 1.1 |
| 10°-20° | 308.6 | 3.8 |
| 20°-30° | 563.5 | 7.0 |
| 30°-40° | 799.3 | 9.9 |
| 40°-50° | 1079.2 | 13.4 |
| 50°-60° | 1451.9 | 18.0 |
| 60°-70° | 1842.8 | 22.9 |
| 70°-80° | 1672.4 | 20.8 |
| 80°-90° | 243.8 | 3.0 |
| 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° | 8053.4 | 100.0 |
| 0°-180° | 8053.4 | 100.0 |

Coefficient of Utilization



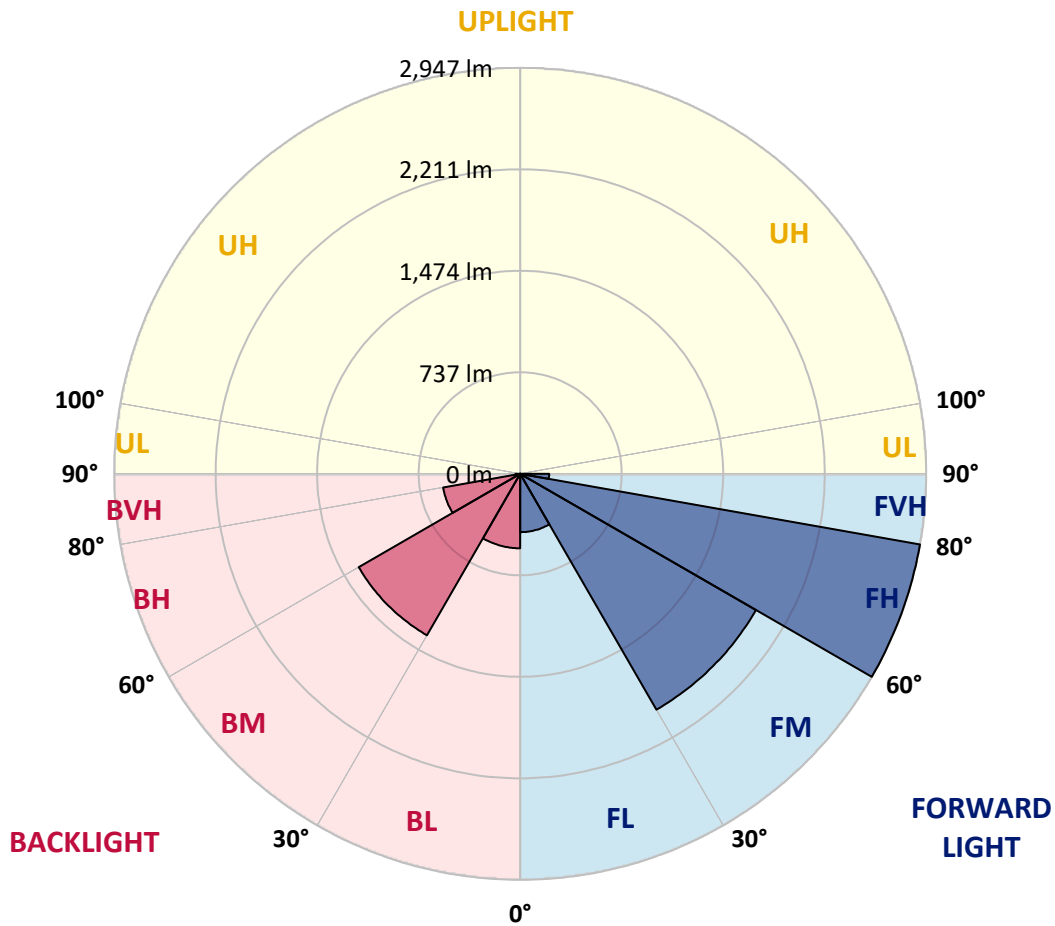
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 423.6 | 5.3 | | | |
| FM (30°-60°) | 1976.9 | 24.5 | | | |
| FH (60°-80°) | 2947.4 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 210.2 | 2.6 | | | G2/225 |
| BL (0°-30°) | 540.5 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1353.4 | 16.8 | B2/2500 | | |
| BH (60°-80°) | 567.7 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 33.6 | 0.4 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 |
| 2.5° | 906.8 | 911.9 | 910.7 | 909.0 | 909.0 | 909.4 | 909.0 | 911.9 | 914.9 | 917.9 | 922.6 |
| 5° | 916.2 | 921.4 | 918.8 | 916.7 | 914.9 | 914.5 | 913.3 | 912.8 | 914.5 | 918.4 | 924.8 |
| 7.5° | 934.6 | 939.7 | 935.8 | 932.0 | 928.6 | 926.9 | 925.2 | 922.6 | 921.4 | 923.5 | 932.4 |
| 10° | 955.1 | 960.2 | 955.5 | 948.6 | 943.1 | 941.0 | 939.3 | 936.7 | 935.0 | 936.3 | 946.1 |
| 12.5° | 975.6 | 980.7 | 974.3 | 964.9 | 957.7 | 956.3 | 954.3 | 953.4 | 952.9 | 952.5 | 962.4 |
| 15° | 994.9 | 999.1 | 991.0 | 979.9 | 972.2 | 970.1 | 967.9 | 969.1 | 971.3 | 973.9 | 985.0 |
| 17.5° | 1009.7 | 1014.0 | 1002.0 | 987.6 | 980.3 | 979.4 | 978.2 | 982.5 | 988.4 | 994.9 | 1008.5 |
| 20° | 1023.5 | 1027.7 | 1012.3 | 992.7 | 984.1 | 984.1 | 984.6 | 993.5 | 1002.0 | 1011.5 | 1030.2 |
| 22.5° | 1042.6 | 1046.1 | 1027.3 | 1000.4 | 988.0 | 988.8 | 992.3 | 1001.2 | 1011.9 | 1024.7 | 1050.7 |
| 25° | 1071.2 | 1073.8 | 1050.7 | 1014.9 | 1000.8 | 1003.4 | 1006.3 | 1010.6 | 1020.9 | 1035.9 | 1070.8 |
| 27.5° | 1117.5 | 1119.5 | 1089.2 | 1040.5 | 1019.2 | 1023.5 | 1027.7 | 1024.7 | 1029.4 | 1042.2 | 1087.1 |
| 30° | 1182.3 | 1183.6 | 1145.1 | 1080.7 | 1050.3 | 1052.5 | 1053.3 | 1041.0 | 1032.0 | 1042.2 | 1098.6 |
| 32.5° | 1259.2 | 1258.8 | 1213.1 | 1129.3 | 1085.8 | 1083.6 | 1076.4 | 1052.1 | 1031.1 | 1040.1 | 1108.8 |
| 35° | 1378.4 | 1373.7 | 1314.8 | 1197.7 | 1126.0 | 1112.7 | 1095.6 | 1064.5 | 1035.4 | 1037.9 | 1117.9 |
| 37.5° | 1575.7 | 1561.2 | 1479.6 | 1309.6 | 1185.7 | 1152.0 | 1126.8 | 1084.6 | 1044.8 | 1037.1 | 1128.5 |
| 40° | 1798.3 | 1779.9 | 1690.2 | 1463.0 | 1275.4 | 1221.2 | 1180.6 | 1113.1 | 1060.2 | 1041.0 | 1144.3 |
| 42.5° | 2062.2 | 2036.2 | 1939.6 | 1643.7 | 1389.1 | 1310.5 | 1249.4 | 1149.4 | 1082.8 | 1053.3 | 1165.6 |
| 45° | 2386.4 | 2351.9 | 2215.1 | 1847.4 | 1532.2 | 1427.5 | 1345.9 | 1204.6 | 1117.5 | 1077.3 | 1197.7 |
| 47.5° | 2714.1 | 2722.6 | 2528.3 | 2080.6 | 1703.9 | 1571.8 | 1466.8 | 1287.4 | 1167.8 | 1115.7 | 1249.4 |
| 50° | 3062.2 | 3068.1 | 2839.7 | 2339.0 | 1898.6 | 1735.0 | 1602.7 | 1380.1 | 1237.9 | 1170.3 | 1326.7 |
| 52.5° | 3333.8 | 3334.7 | 3122.5 | 2609.4 | 2101.6 | 1914.5 | 1749.2 | 1486.0 | 1319.0 | 1243.0 | 1429.7 |
| 55° | 3503.9 | 3501.7 | 3320.6 | 2865.3 | 2334.7 | 2102.8 | 1911.4 | 1606.5 | 1418.1 | 1328.4 | 1559.0 |
| 57.5° | 3627.3 | 3620.9 | 3457.3 | 3085.2 | 2583.4 | 2325.3 | 2095.1 | 1743.2 | 1535.1 | 1430.1 | 1729.5 |
| 60° | 3674.3 | 3670.4 | 3550.0 | 3275.3 | 2844.8 | 2571.4 | 2307.0 | 1896.0 | 1668.0 | 1550.1 | 1948.6 |
| 62.5° | 3692.3 | 3699.5 | 3641.0 | 3459.5 | 3124.5 | 2844.0 | 2539.7 | 2078.9 | 1817.5 | 1685.9 | 2179.7 |
| 65° | 3755.4 | 3768.7 | 3756.7 | 3700.4 | 3440.6 | 3162.9 | 2848.6 | 2296.3 | 1980.7 | 1831.6 | 2421.0 |
| 67.5° | 3880.5 | 3893.9 | 3899.0 | 3988.7 | 3826.7 | 3560.6 | 3233.9 | 2567.1 | 2171.6 | 1982.8 | 2602.6 |
| 70° | 3877.6 | 3873.8 | 3964.3 | 4218.1 | 4310.3 | 4111.3 | 3753.3 | 2900.3 | 2399.2 | 2108.4 | 2625.6 |
| 72.5° | 3529.5 | 3498.7 | 3712.8 | 4215.5 | 4712.6 | 4686.2 | 4387.6 | 3330.0 | 2595.7 | 2123.8 | 2278.4 |
| 75° | 2647.9 | 2565.9 | 2943.9 | 3799.0 | 4779.7 | 5012.6 | 4790.8 | 3596.5 | 2549.2 | 1876.5 | 1585.6 |
| 77.5° | 1132.3 | 1049.9 | 1495.5 | 2812.3 | 4277.8 | 4685.8 | 4420.9 | 3137.8 | 2034.9 | 1240.9 | 778.7 |
| 80° | 296.4 | 296.0 | 451.9 | 1275.0 | 2909.3 | 3460.3 | 3035.7 | 2026.3 | 1162.7 | 443.4 | 214.8 |
| 82.5° | 122.6 | 119.6 | 166.2 | 495.9 | 1421.6 | 1941.8 | 1584.6 | 903.8 | 419.8 | 120.0 | 71.3 |
| 85° | 45.7 | 45.3 | 80.8 | 171.3 | 501.4 | 800.9 | 579.6 | 231.0 | 104.7 | 58.5 | 32.1 |
| 87.5° | 12.8 | 12.4 | 17.5 | 59.3 | 122.2 | 185.4 | 99.1 | 38.0 | 29.5 | 23.1 | 9.4 |
| 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° | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 | 921.0 |
| 2.5° | 923.9 | 926.1 | 929.9 | 932.9 | 936.7 | 941.0 | 947.0 | 950.8 | 954.7 | 957.2 | 955.5 |
| 5° | 927.7 | 932.4 | 942.3 | 952.1 | 963.6 | 974.3 | 986.7 | 995.7 | 1003.0 | 1005.1 | 1005.9 |
| 7.5° | 936.3 | 944.0 | 960.6 | 977.3 | 995.7 | 1013.2 | 1031.1 | 1046.5 | 1058.9 | 1063.5 | 1064.1 |
| 10° | 951.2 | 961.4 | 985.0 | 1008.5 | 1032.8 | 1059.7 | 1082.8 | 1105.1 | 1122.6 | 1129.8 | 1130.3 |
| 12.5° | 970.1 | 982.9 | 1013.6 | 1046.1 | 1079.8 | 1116.9 | 1146.9 | 1174.2 | 1196.0 | 1205.8 | 1205.8 |
| 15° | 994.4 | 1011.1 | 1050.3 | 1093.9 | 1143.5 | 1195.1 | 1233.2 | 1263.5 | 1287.8 | 1299.8 | 1299.0 |
| 17.5° | 1020.9 | 1043.0 | 1092.6 | 1158.5 | 1229.3 | 1297.2 | 1341.6 | 1363.9 | 1389.1 | 1400.6 | 1400.1 |
| 20° | 1046.5 | 1073.8 | 1144.7 | 1240.5 | 1334.9 | 1407.0 | 1442.9 | 1448.8 | 1450.6 | 1451.8 | 1455.3 |
| 22.5° | 1073.0 | 1109.8 | 1210.1 | 1343.8 | 1445.0 | 1495.0 | 1500.1 | 1474.5 | 1438.6 | 1422.0 | 1426.7 |
| 25° | 1102.0 | 1150.8 | 1295.5 | 1457.9 | 1539.9 | 1545.8 | 1506.5 | 1444.1 | 1376.3 | 1345.1 | 1349.8 |
| 27.5° | 1130.3 | 1198.1 | 1398.0 | 1566.7 | 1608.2 | 1555.6 | 1471.1 | 1382.6 | 1300.6 | 1267.7 | 1271.6 |
| 30° | 1158.5 | 1252.3 | 1511.3 | 1662.0 | 1639.4 | 1531.4 | 1415.1 | 1316.4 | 1234.0 | 1199.5 | 1203.2 |
| 32.5° | 1187.1 | 1315.6 | 1641.5 | 1730.8 | 1633.8 | 1479.6 | 1345.5 | 1242.1 | 1169.5 | 1133.2 | 1138.0 |
| 35° | 1219.4 | 1393.4 | 1764.9 | 1768.3 | 1596.6 | 1403.6 | 1253.7 | 1153.3 | 1090.1 | 1061.0 | 1067.4 |
| 37.5° | 1261.8 | 1492.0 | 1873.9 | 1777.8 | 1531.8 | 1292.1 | 1139.6 | 1048.2 | 996.1 | 982.9 | 992.3 |
| 40° | 1314.4 | 1610.8 | 1957.1 | 1762.8 | 1435.6 | 1156.7 | 1014.9 | 941.9 | 912.4 | 915.3 | 925.6 |
| 42.5° | 1382.6 | 1743.6 | 2015.7 | 1724.4 | 1302.0 | 1017.0 | 905.6 | 873.1 | 887.1 | 899.1 | 910.2 |
| 45° | 1471.5 | 1881.6 | 2051.9 | 1659.1 | 1150.8 | 898.7 | 841.0 | 848.7 | 859.5 | 860.7 | 869.2 |
| 47.5° | 1585.2 | 2021.2 | 2075.9 | 1560.4 | 996.5 | 815.4 | 800.0 | 801.8 | 799.6 | 790.7 | 797.4 |
| 50° | 1726.9 | 2157.1 | 2097.3 | 1429.7 | 865.4 | 763.3 | 742.8 | 736.9 | 707.4 | 678.3 | 682.1 |
| 52.5° | 1888.4 | 2281.8 | 2106.3 | 1267.3 | 763.3 | 719.8 | 686.4 | 648.8 | 593.7 | 584.8 | 587.7 |
| 55° | 2067.8 | 2397.2 | 2083.2 | 1067.8 | 677.4 | 663.8 | 613.4 | 568.1 | 562.1 | 554.4 | 555.8 |
| 57.5° | 2282.3 | 2521.4 | 2036.2 | 845.3 | 589.5 | 598.4 | 549.3 | 554.4 | 543.8 | 531.8 | 529.6 |
| 60° | 2516.7 | 2650.0 | 1953.8 | 642.5 | 498.5 | 516.8 | 532.7 | 532.2 | 529.2 | 519.4 | 516.0 |
| 62.5° | 2727.7 | 2734.6 | 1791.4 | 492.1 | 418.6 | 453.7 | 496.8 | 496.3 | 493.7 | 488.2 | 486.1 |
| 65° | 2853.3 | 2721.8 | 1520.6 | 387.4 | 352.8 | 401.5 | 448.0 | 451.5 | 451.9 | 451.5 | 451.5 |
| 67.5° | 2831.2 | 2571.8 | 1149.0 | 308.4 | 298.6 | 348.5 | 399.9 | 404.5 | 408.0 | 408.8 | 409.6 |
| 70° | 2579.9 | 2242.5 | 749.2 | 246.0 | 250.3 | 302.0 | 354.1 | 358.7 | 361.8 | 365.2 | 367.0 |
| 72.5° | 2010.9 | 1648.8 | 428.9 | 199.1 | 208.0 | 261.9 | 308.8 | 314.4 | 316.1 | 322.5 | 325.0 |
| 75° | 1225.5 | 969.6 | 231.5 | 156.7 | 170.9 | 223.9 | 263.9 | 270.4 | 273.4 | 281.1 | 281.9 |
| 77.5° | 582.6 | 419.8 | 132.0 | 122.2 | 137.6 | 182.9 | 222.9 | 230.2 | 222.1 | 226.4 | 222.9 |
| 80° | 196.9 | 155.9 | 83.3 | 93.1 | 105.1 | 142.7 | 178.6 | 185.8 | 168.7 | 167.9 | 166.2 |
| 82.5° | 68.8 | 63.2 | 53.0 | 61.9 | 68.0 | 102.1 | 135.0 | 144.4 | 125.6 | 125.2 | 119.2 |
| 85° | 27.0 | 25.6 | 29.5 | 33.7 | 40.6 | 62.8 | 88.9 | 93.6 | 77.3 | 62.3 | 61.5 |
| 87.5° | 5.5 | 5.9 | 7.3 | 7.7 | 12.4 | 21.8 | 32.1 | 39.3 | 31.2 | 26.4 | 24.4 |
| 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)