

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: P881957

Luminaire Tested: **NVN-SB1C-835-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881957
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-SB1C-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6266 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

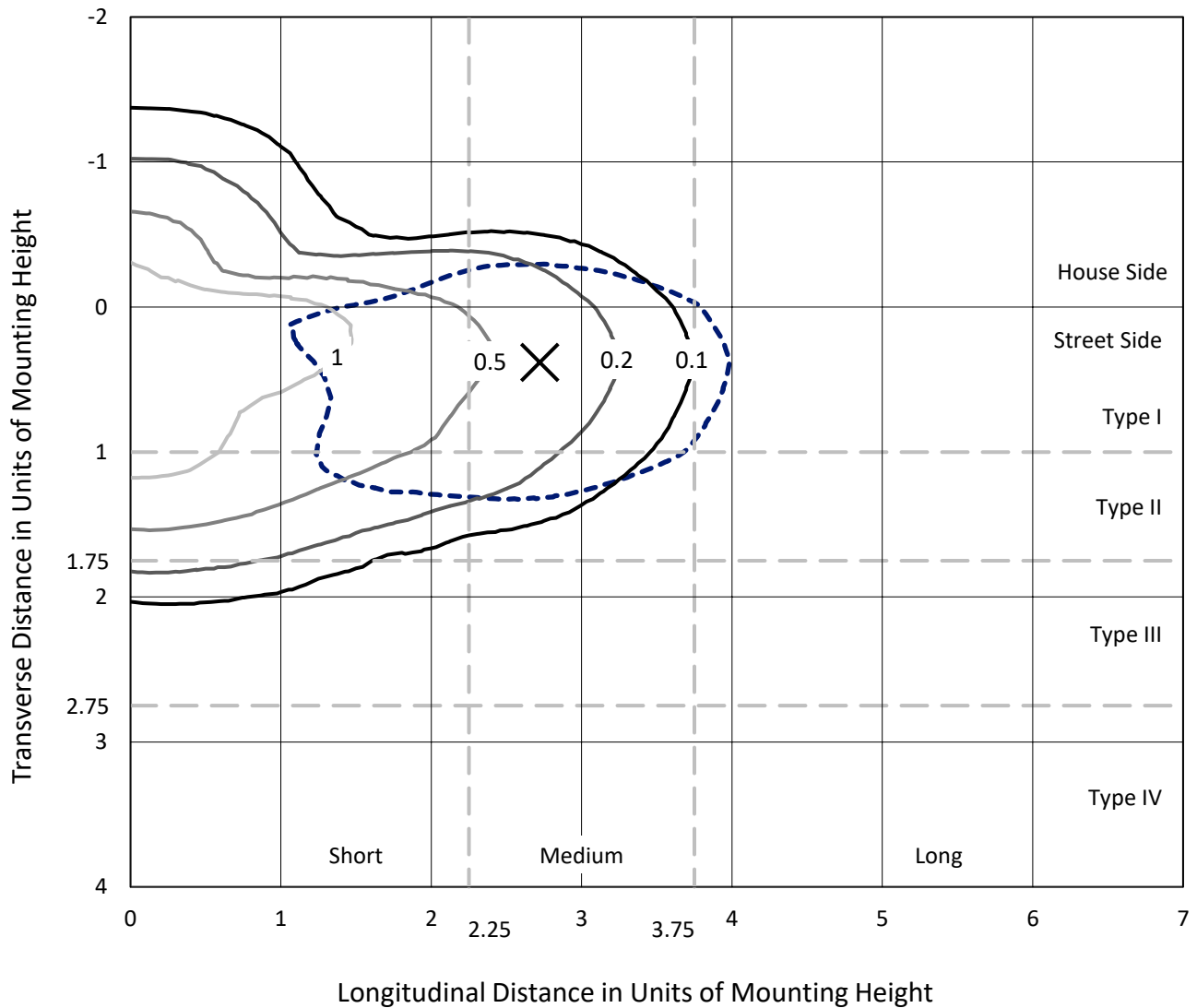
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

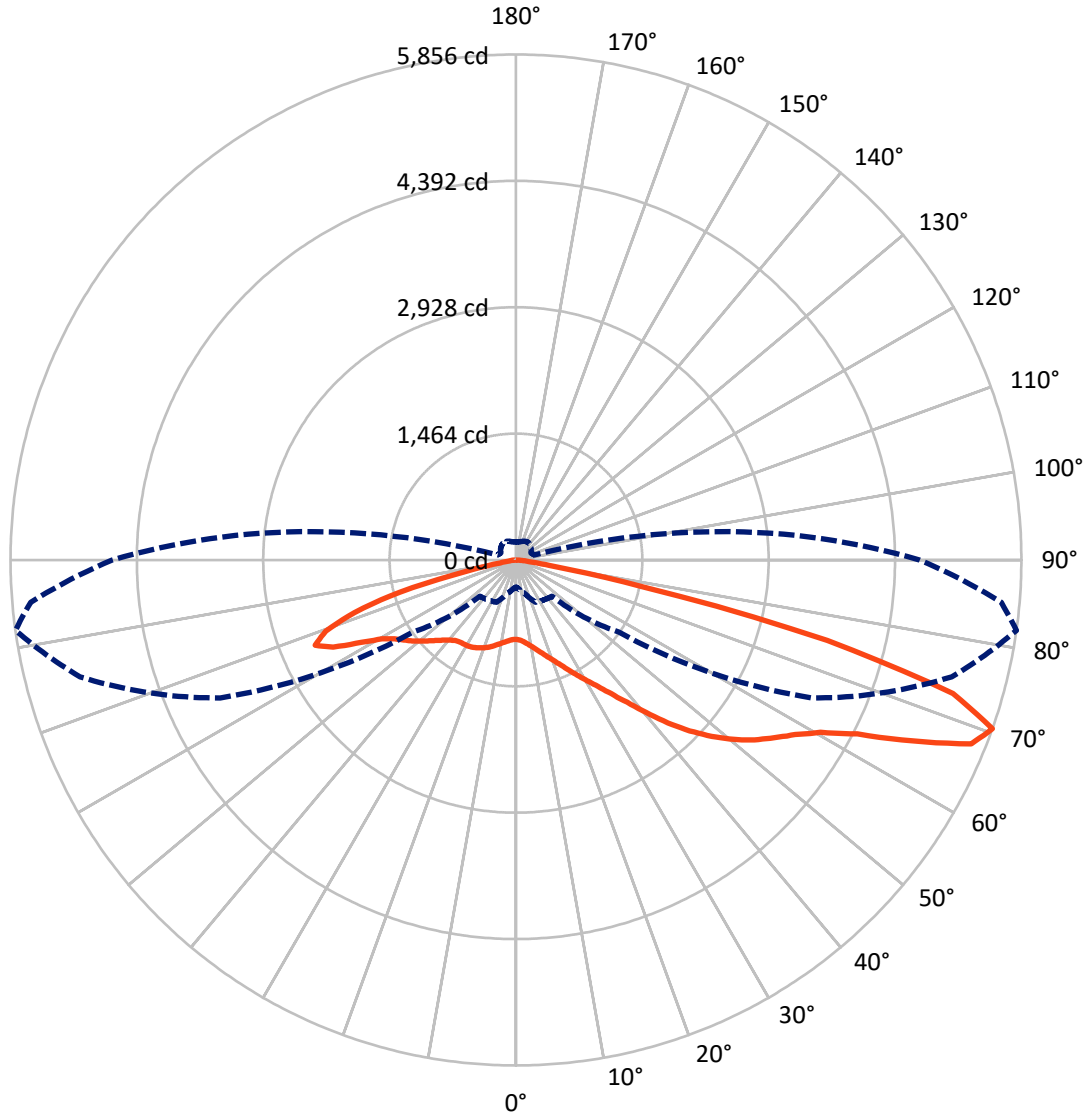
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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 | 1544.7 | 0.0 | 1544.7 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 4721.3 | 0.0 | 4721.3 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 6266.0 | 0.0 | 6266.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.7 | 1.4 |
| 10°-20° | 249.2 | 4.0 |
| 20°-30° | 416.9 | 6.7 |
| 30°-40° | 651.3 | 10.4 |
| 40°-50° | 1037.3 | 16.6 |
| 50°-60° | 1443.5 | 23.0 |
| 60°-70° | 1510.0 | 24.1 |
| 70°-80° | 789.2 | 12.6 |
| 80°-90° | 81.9 | 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° | 6266.0 | 100.0 |
| 0°-180° | 6266.0 | 100.0 |

Coefficient of Utilization

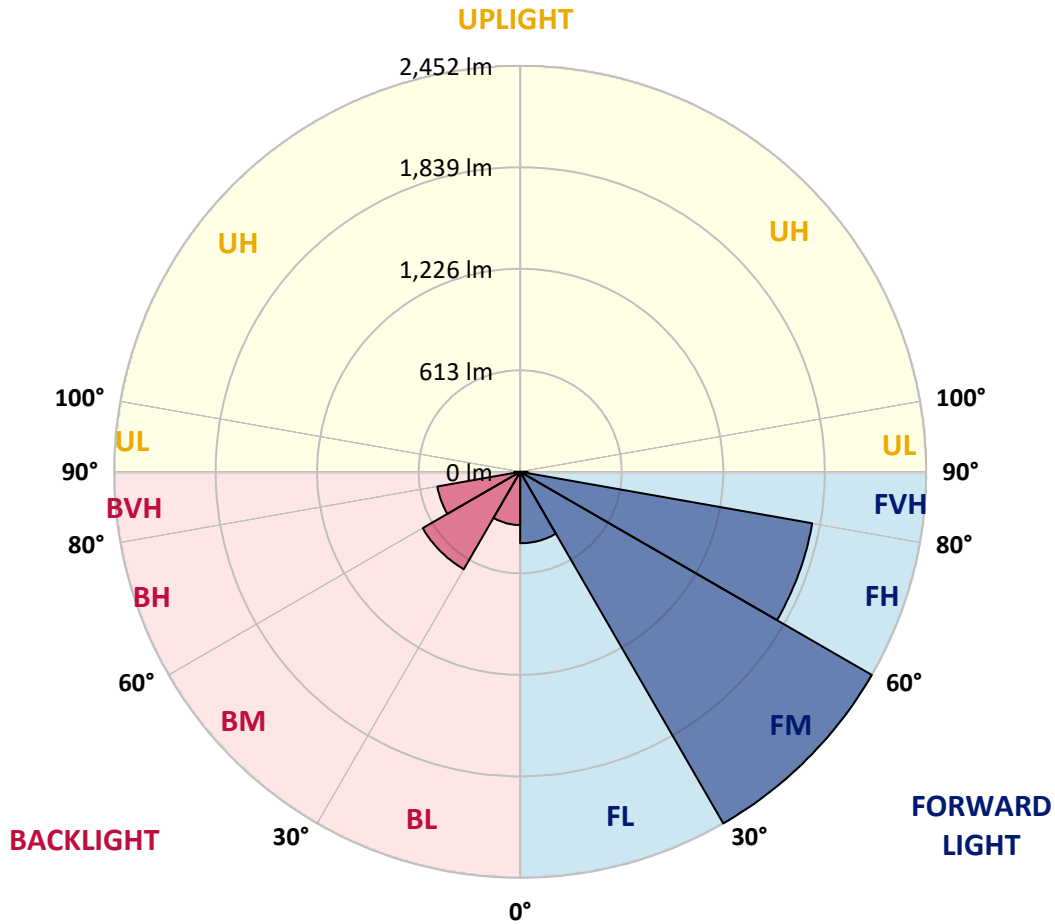


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 431.5 | 6.9 | | | |
| FM (30°-60°) | 2452.5 | 39.1 | | | |
| FH (60°-80°) | 1791.5 | 28.6 | | | G1/1800 |
| FVH (80°-90°) | 45.9 | 0.7 | | | G1/100 |
| BL (0°-30°) | 321.4 | 5.1 | B1/500 | | |
| BM (30°-60°) | 679.6 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 507.7 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 36.1 | 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° | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 |
| 2.5° | 940.6 | 945.9 | 944.3 | 942.6 | 942.6 | 940.3 | 940.0 | 936.6 | 934.0 | 929.6 | 928.6 |
| 5° | 952.6 | 958.2 | 957.6 | 958.9 | 963.2 | 964.2 | 965.2 | 963.2 | 957.9 | 952.6 | 950.3 |
| 7.5° | 941.9 | 948.3 | 950.3 | 958.2 | 971.5 | 983.5 | 992.5 | 996.1 | 991.2 | 983.5 | 979.9 |
| 10° | 906.0 | 913.0 | 920.0 | 939.0 | 962.6 | 990.8 | 1014.8 | 1029.1 | 1028.1 | 1020.7 | 1014.4 |
| 12.5° | 833.2 | 840.5 | 855.5 | 892.4 | 935.6 | 985.5 | 1030.1 | 1060.0 | 1070.3 | 1065.0 | 1054.0 |
| 15° | 775.0 | 781.4 | 792.7 | 830.6 | 886.8 | 962.6 | 1035.7 | 1093.9 | 1120.2 | 1117.2 | 1103.9 |
| 17.5° | 773.4 | 776.0 | 783.0 | 801.0 | 844.2 | 926.7 | 1029.7 | 1127.1 | 1177.4 | 1177.0 | 1160.4 |
| 20° | 802.6 | 803.6 | 807.6 | 811.3 | 835.9 | 899.4 | 1014.4 | 1154.7 | 1241.5 | 1241.5 | 1223.6 |
| 22.5° | 843.2 | 842.5 | 846.5 | 843.2 | 855.2 | 897.1 | 1004.8 | 1179.0 | 1313.0 | 1318.3 | 1295.7 |
| 25° | 904.0 | 900.7 | 899.7 | 892.1 | 894.4 | 918.7 | 1015.4 | 1206.6 | 1397.8 | 1408.8 | 1380.5 |
| 27.5° | 985.2 | 979.9 | 976.2 | 958.6 | 952.6 | 963.2 | 1048.0 | 1239.9 | 1492.2 | 1511.2 | 1475.3 |
| 30° | 1090.9 | 1081.3 | 1075.9 | 1045.4 | 1023.7 | 1025.4 | 1097.2 | 1284.1 | 1591.0 | 1621.6 | 1576.0 |
| 32.5° | 1235.2 | 1220.2 | 1205.9 | 1155.7 | 1116.2 | 1103.2 | 1160.7 | 1345.3 | 1698.0 | 1746.9 | 1688.4 |
| 35° | 1396.8 | 1384.8 | 1369.5 | 1292.1 | 1231.2 | 1201.3 | 1246.5 | 1430.7 | 1823.4 | 1900.9 | 1824.7 |
| 37.5° | 1552.4 | 1542.1 | 1549.4 | 1445.0 | 1366.5 | 1323.0 | 1358.9 | 1545.4 | 1978.0 | 2092.4 | 1995.6 |
| 40° | 1713.3 | 1705.3 | 1706.3 | 1606.6 | 1515.2 | 1466.3 | 1495.2 | 1689.4 | 2155.2 | 2320.1 | 2201.1 |
| 42.5° | 1888.2 | 1882.2 | 1862.3 | 1773.8 | 1671.1 | 1625.6 | 1652.2 | 1855.6 | 2345.4 | 2579.5 | 2426.5 |
| 45° | 2084.1 | 2080.4 | 2061.8 | 1960.4 | 1842.7 | 1791.5 | 1827.4 | 2039.2 | 2536.6 | 2823.5 | 2652.9 |
| 47.5° | 2253.3 | 2256.3 | 2254.0 | 2168.5 | 2046.5 | 1971.3 | 2014.2 | 2230.7 | 2714.5 | 3052.9 | 2870.1 |
| 50° | 2334.8 | 2350.4 | 2373.3 | 2346.7 | 2270.9 | 2194.4 | 2202.8 | 2415.6 | 2884.0 | 3268.1 | 3078.2 |
| 52.5° | 2292.2 | 2321.8 | 2384.3 | 2426.9 | 2456.1 | 2440.2 | 2417.9 | 2599.1 | 3043.6 | 3462.2 | 3275.0 |
| 55° | 2133.6 | 2175.2 | 2278.9 | 2381.6 | 2530.9 | 2647.0 | 2676.2 | 2802.6 | 3199.2 | 3633.1 | 3461.2 |
| 57.5° | 1844.7 | 1912.2 | 2005.3 | 2213.1 | 2464.4 | 2747.0 | 2977.5 | 3084.9 | 3364.1 | 3815.7 | 3656.1 |
| 60° | 1349.3 | 1439.7 | 1555.4 | 1864.6 | 2231.7 | 2693.5 | 3233.8 | 3518.4 | 3598.6 | 4052.1 | 3909.8 |
| 62.5° | 863.5 | 919.3 | 1025.7 | 1317.0 | 1738.9 | 2419.2 | 3312.3 | 4060.4 | 3995.9 | 4439.8 | 4290.1 |
| 65° | 591.2 | 627.1 | 724.5 | 888.1 | 1124.2 | 1800.8 | 3102.1 | 4466.7 | 4627.0 | 5054.2 | 4940.5 |
| 67.5° | 429.6 | 456.8 | 540.0 | 683.3 | 732.5 | 1065.6 | 2407.2 | 4448.1 | 5240.4 | 5687.3 | 5510.4 |
| 70° | 313.2 | 332.5 | 402.3 | 540.0 | 563.6 | 592.8 | 1458.3 | 3781.1 | 5227.1 | 5855.5 | 5643.7 |
| 72.5° | 232.1 | 245.4 | 292.3 | 418.9 | 456.2 | 400.3 | 721.8 | 2748.0 | 4491.6 | 5296.3 | 5126.4 |
| 75° | 167.9 | 177.9 | 212.5 | 320.5 | 365.1 | 304.9 | 360.1 | 1605.9 | 3133.1 | 3725.6 | 3755.5 |
| 77.5° | 128.3 | 136.0 | 158.6 | 234.7 | 292.3 | 228.8 | 223.4 | 738.8 | 1485.6 | 1492.9 | 1576.7 |
| 80° | 103.1 | 108.1 | 120.4 | 165.2 | 224.1 | 171.2 | 145.6 | 298.2 | 469.5 | 397.3 | 416.9 |
| 82.5° | 75.8 | 84.1 | 101.7 | 116.0 | 160.3 | 118.0 | 88.8 | 150.6 | 178.5 | 153.6 | 154.9 |
| 85° | 43.2 | 48.9 | 61.5 | 83.1 | 102.4 | 72.2 | 50.9 | 66.8 | 83.1 | 68.2 | 60.8 |
| 87.5° | 15.3 | 19.9 | 21.6 | 32.6 | 44.6 | 29.9 | 19.6 | 19.3 | 27.3 | 20.3 | 17.0 |
| 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° | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 |
| 2.5° | 925.3 | 923.7 | 917.0 | 908.0 | 898.7 | 889.7 | 886.8 | 880.4 | 876.1 | 873.8 | 876.4 |
| 5° | 943.9 | 938.6 | 923.0 | 903.0 | 882.1 | 859.5 | 843.5 | 828.9 | 818.3 | 808.3 | 812.3 |
| 7.5° | 970.5 | 961.2 | 934.3 | 899.4 | 862.2 | 824.6 | 796.6 | 775.4 | 761.1 | 751.8 | 753.8 |
| 10° | 1001.5 | 987.2 | 945.9 | 893.7 | 836.2 | 782.4 | 749.4 | 731.1 | 722.2 | 717.2 | 718.5 |
| 12.5° | 1037.0 | 1016.8 | 957.9 | 880.8 | 796.6 | 735.1 | 712.5 | 707.2 | 707.5 | 707.9 | 708.5 |
| 15° | 1080.9 | 1052.7 | 967.6 | 852.5 | 745.1 | 698.9 | 694.9 | 703.6 | 712.5 | 716.9 | 716.5 |
| 17.5° | 1130.5 | 1090.6 | 969.2 | 806.0 | 694.6 | 675.6 | 688.3 | 706.9 | 720.5 | 726.5 | 727.8 |
| 20° | 1183.7 | 1129.1 | 957.2 | 740.1 | 653.0 | 656.7 | 679.3 | 703.2 | 718.2 | 725.8 | 727.8 |
| 22.5° | 1244.5 | 1170.4 | 928.6 | 671.0 | 619.1 | 636.1 | 662.7 | 685.9 | 701.6 | 709.2 | 711.2 |
| 25° | 1314.0 | 1216.6 | 883.8 | 612.8 | 589.8 | 612.8 | 639.4 | 658.7 | 671.3 | 678.3 | 680.3 |
| 27.5° | 1391.1 | 1264.8 | 823.9 | 566.6 | 564.2 | 588.8 | 610.8 | 625.7 | 632.4 | 637.7 | 639.7 |
| 30° | 1468.6 | 1308.7 | 751.4 | 531.7 | 542.0 | 565.2 | 580.9 | 587.5 | 589.5 | 590.5 | 592.8 |
| 32.5° | 1552.4 | 1346.6 | 675.3 | 502.7 | 520.7 | 542.3 | 551.6 | 554.6 | 545.3 | 539.0 | 541.0 |
| 35° | 1653.8 | 1387.2 | 600.8 | 479.8 | 499.7 | 518.4 | 521.3 | 518.7 | 507.7 | 494.7 | 495.4 |
| 37.5° | 1779.2 | 1437.7 | 541.3 | 463.5 | 480.1 | 492.4 | 488.8 | 488.1 | 489.1 | 473.8 | 474.8 |
| 40° | 1932.8 | 1503.5 | 497.7 | 450.9 | 464.2 | 466.8 | 456.5 | 462.2 | 467.2 | 443.9 | 444.5 |
| 42.5° | 2103.3 | 1583.0 | 470.1 | 442.2 | 450.9 | 444.5 | 428.6 | 434.9 | 434.2 | 403.6 | 403.3 |
| 45° | 2277.2 | 1669.4 | 460.5 | 435.9 | 438.6 | 425.9 | 408.3 | 410.0 | 396.0 | 368.4 | 369.4 |
| 47.5° | 2450.1 | 1762.2 | 466.5 | 430.6 | 423.3 | 409.0 | 395.3 | 388.0 | 367.4 | 346.8 | 346.8 |
| 50° | 2619.7 | 1859.6 | 488.4 | 419.9 | 402.3 | 394.0 | 384.0 | 371.1 | 349.1 | 331.5 | 330.2 |
| 52.5° | 2777.0 | 1957.7 | 513.0 | 402.3 | 376.0 | 381.0 | 374.7 | 359.8 | 338.1 | 320.2 | 320.5 |
| 55° | 2925.9 | 2055.8 | 522.7 | 378.0 | 351.4 | 369.7 | 366.1 | 338.5 | 312.5 | 297.9 | 296.6 |
| 57.5° | 3088.2 | 2173.8 | 512.0 | 347.1 | 331.5 | 356.8 | 342.8 | 312.2 | 297.2 | 286.3 | 285.3 |
| 60° | 3312.9 | 2359.0 | 489.1 | 308.9 | 312.5 | 337.5 | 313.5 | 300.9 | 284.6 | 272.3 | 271.6 |
| 62.5° | 3686.3 | 2704.5 | 452.2 | 271.0 | 290.3 | 308.9 | 299.6 | 286.9 | 270.3 | 258.3 | 258.3 |
| 65° | 4238.3 | 3184.6 | 382.7 | 241.4 | 265.3 | 281.0 | 284.6 | 272.0 | 254.7 | 242.1 | 242.7 |
| 67.5° | 4703.8 | 3485.8 | 289.6 | 216.8 | 239.7 | 258.3 | 268.7 | 256.4 | 238.1 | 225.8 | 226.1 |
| 70° | 4678.2 | 3267.1 | 221.1 | 192.5 | 217.1 | 236.1 | 249.4 | 239.7 | 220.1 | 208.5 | 209.5 |
| 72.5° | 4155.1 | 2733.1 | 178.9 | 167.9 | 194.2 | 212.8 | 228.8 | 221.4 | 201.5 | 190.2 | 190.2 |
| 75° | 3052.6 | 1940.1 | 143.0 | 143.0 | 165.6 | 188.5 | 206.1 | 201.5 | 183.2 | 175.2 | 172.9 |
| 77.5° | 1286.7 | 813.9 | 112.0 | 118.7 | 137.7 | 161.9 | 183.9 | 185.5 | 169.6 | 179.5 | 162.9 |
| 80° | 342.1 | 224.4 | 85.5 | 93.4 | 108.1 | 133.7 | 159.9 | 159.3 | 142.0 | 132.7 | 123.4 |
| 82.5° | 130.3 | 88.4 | 60.8 | 65.8 | 78.1 | 102.4 | 126.7 | 130.7 | 113.4 | 98.1 | 98.1 |
| 85° | 50.2 | 37.9 | 37.6 | 39.6 | 45.6 | 67.8 | 95.8 | 99.1 | 85.5 | 72.5 | 74.8 |
| 87.5° | 13.0 | 11.3 | 14.0 | 13.3 | 20.9 | 36.2 | 54.9 | 56.9 | 52.2 | 30.3 | 43.2 |
| 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)