

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: P959365

Luminaire Tested: **NVN-SB1A-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-750-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3816.1 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

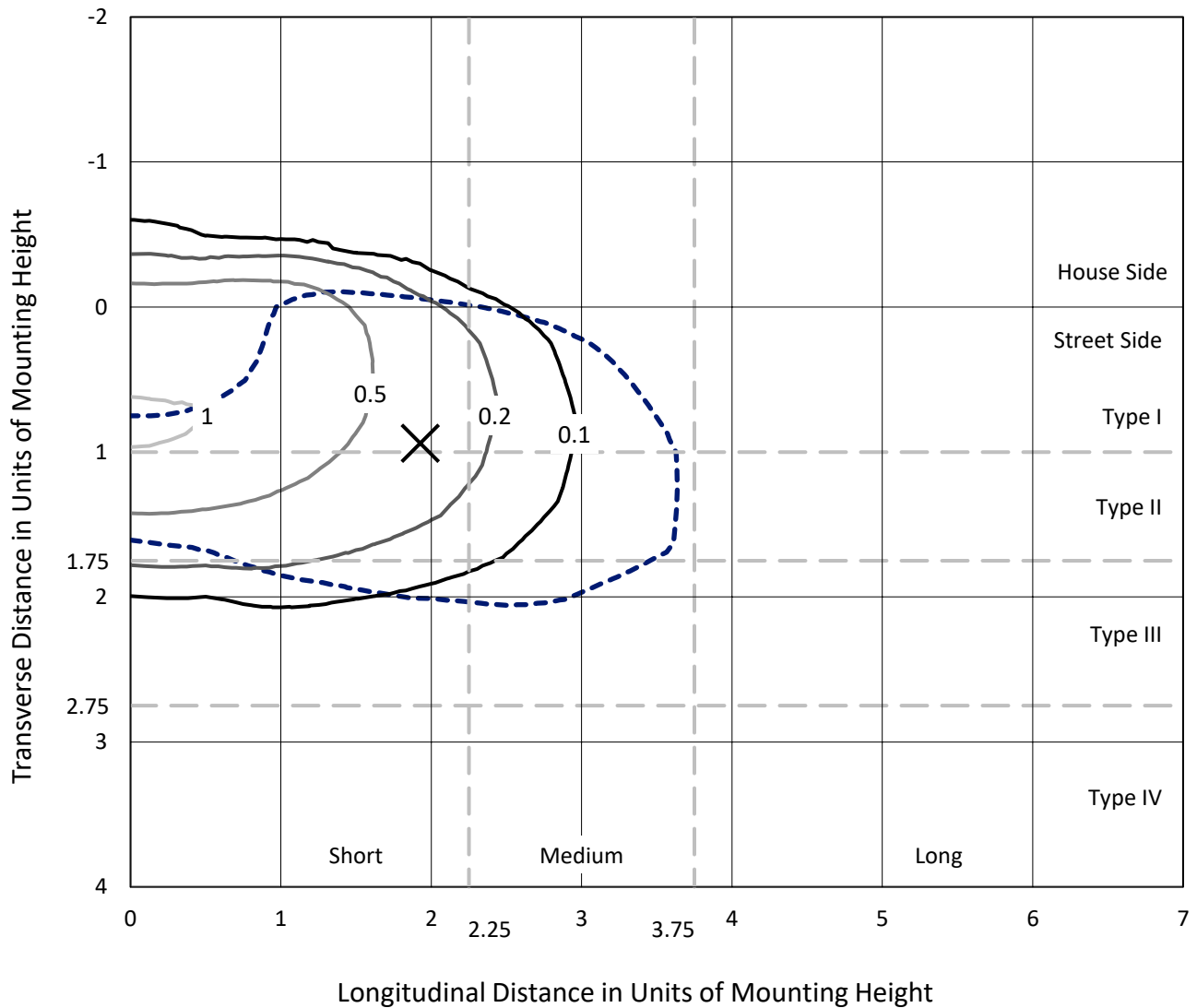
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

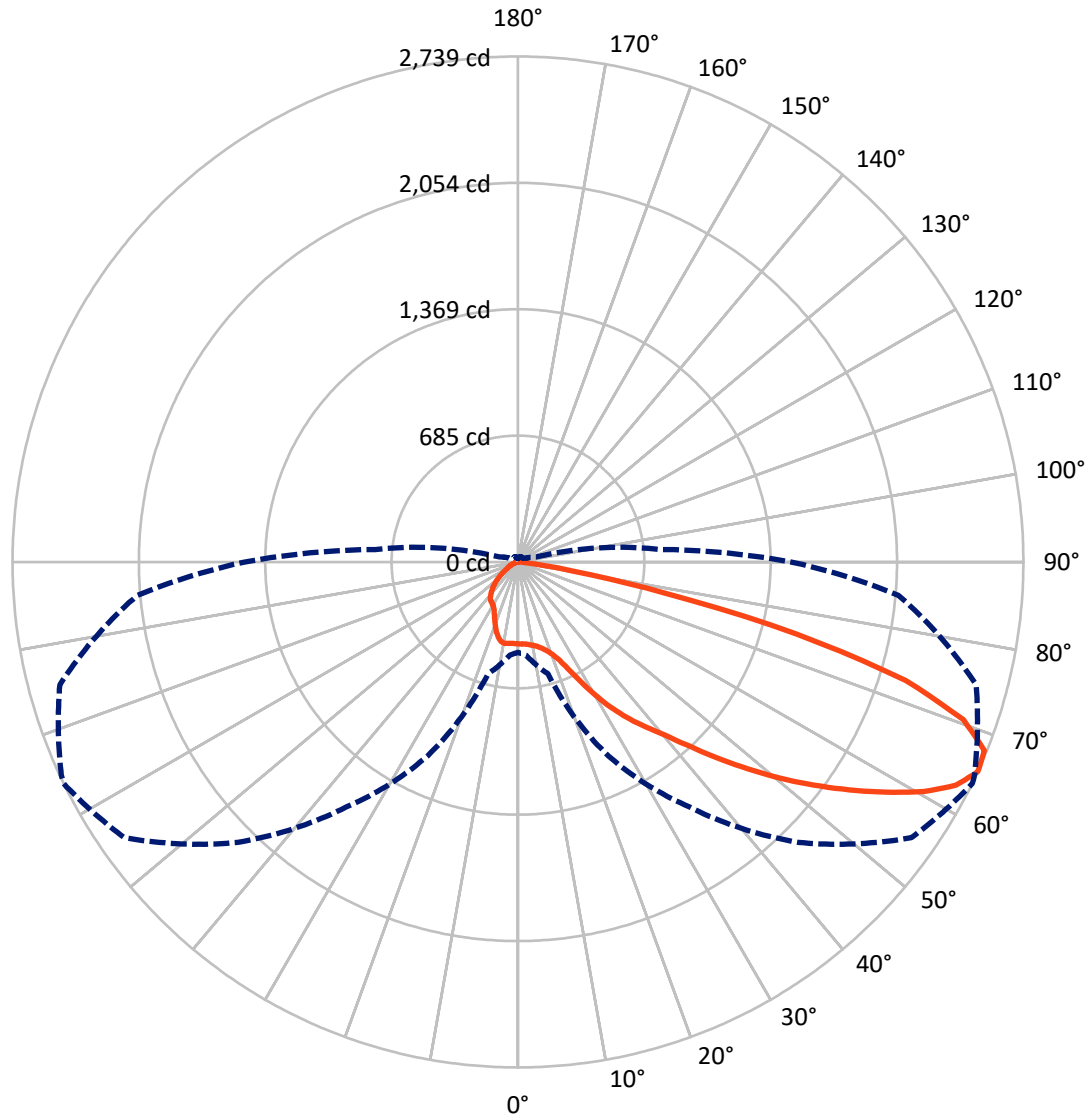
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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 | 510.3 | 0.0 | 510.3 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 3305.7 | 0.0 | 3305.7 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 3816.1 | 0.0 | 3816.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.9 | 1.1 |
| 10°-20° | 111.1 | 2.9 |
| 20°-30° | 210.5 | 5.5 |
| 30°-40° | 425.9 | 11.2 |
| 40°-50° | 725.5 | 19.0 |
| 50°-60° | 986.6 | 25.9 |
| 60°-70° | 926.5 | 24.3 |
| 70°-80° | 371.2 | 9.7 |
| 80°-90° | 18.0 | 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° | 3816.1 | 100.0 |
| 0°-180° | 3816.1 | 100.0 |

Coefficient of Utilization



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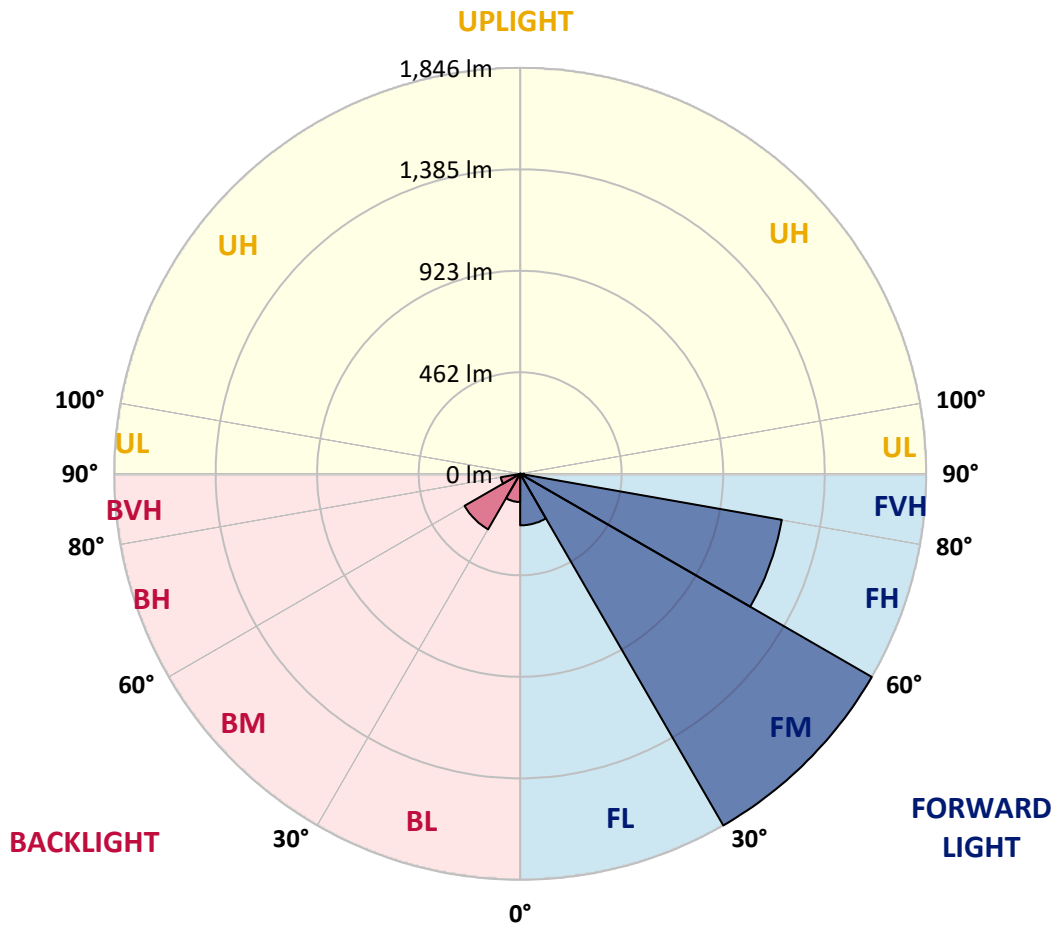
CATALOG NUMBER: NVN-SB1A-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 234.4 | 6.1 | | | |
| FM (30°-60°) | 1846.2 | 48.4 | | | |
| FH (60°-80°) | 1208.1 | 31.7 | | | G1/1800 |
| FVH (80°-90°) | 17.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 128.1 | 3.4 | B1/500 | | |
| BM (30°-60°) | 291.7 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 89.6 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.9 | 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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 |
| 2.5° | 442.3 | 445.4 | 444.6 | 443.8 | 443.6 | 444.1 | 444.3 | 444.1 | 444.1 | 444.1 | 444.3 |
| 5° | 433.9 | 436.4 | 436.4 | 438.2 | 440.7 | 443.8 | 446.2 | 446.7 | 447.2 | 447.9 | 447.7 |
| 7.5° | 417.8 | 419.8 | 421.4 | 427.2 | 433.6 | 441.8 | 448.7 | 452.3 | 452.8 | 455.6 | 456.6 |
| 10° | 406.7 | 409.3 | 411.8 | 418.0 | 427.2 | 439.5 | 451.3 | 459.9 | 461.2 | 467.9 | 471.0 |
| 12.5° | 406.2 | 408.8 | 412.2 | 418.8 | 429.5 | 442.6 | 456.9 | 469.4 | 471.7 | 481.4 | 487.9 |
| 15° | 411.6 | 414.7 | 417.8 | 426.0 | 437.5 | 453.4 | 468.6 | 484.3 | 486.6 | 500.4 | 507.3 |
| 17.5° | 422.6 | 426.7 | 429.0 | 437.2 | 449.5 | 467.1 | 487.4 | 505.2 | 507.3 | 523.4 | 532.1 |
| 20° | 444.3 | 449.3 | 450.0 | 456.6 | 468.6 | 487.6 | 511.7 | 533.9 | 536.5 | 554.8 | 564.6 |
| 22.5° | 489.3 | 496.3 | 490.2 | 493.4 | 504.2 | 523.2 | 549.3 | 577.4 | 581.0 | 602.0 | 610.7 |
| 25° | 568.7 | 578.4 | 562.5 | 556.9 | 561.5 | 581.2 | 614.0 | 649.5 | 653.6 | 670.6 | 674.9 |
| 27.5° | 724.5 | 712.0 | 687.9 | 664.4 | 650.6 | 661.8 | 698.6 | 742.6 | 747.7 | 764.1 | 759.0 |
| 30° | 895.6 | 884.7 | 852.2 | 799.9 | 767.2 | 765.4 | 799.4 | 848.6 | 854.4 | 870.0 | 854.4 |
| 32.5° | 1067.0 | 1056.6 | 1021.2 | 957.0 | 900.3 | 872.1 | 895.6 | 950.1 | 953.1 | 963.2 | 940.1 |
| 35° | 1235.6 | 1224.9 | 1189.6 | 1123.8 | 1054.0 | 990.0 | 985.4 | 1046.8 | 1047.9 | 1058.3 | 1024.1 |
| 37.5° | 1405.3 | 1396.3 | 1358.6 | 1294.2 | 1225.4 | 1137.1 | 1094.4 | 1138.4 | 1139.7 | 1149.9 | 1114.4 |
| 40° | 1526.2 | 1530.0 | 1504.2 | 1454.4 | 1395.2 | 1298.8 | 1216.7 | 1235.8 | 1228.2 | 1245.4 | 1224.1 |
| 42.5° | 1630.1 | 1637.7 | 1615.3 | 1590.2 | 1555.9 | 1471.0 | 1368.2 | 1364.8 | 1352.5 | 1361.7 | 1339.8 |
| 45° | 1719.8 | 1726.3 | 1706.1 | 1700.2 | 1699.4 | 1639.8 | 1533.6 | 1513.7 | 1496.6 | 1494.8 | 1468.4 |
| 47.5° | 1752.9 | 1765.2 | 1773.9 | 1793.5 | 1832.0 | 1806.9 | 1704.8 | 1673.8 | 1654.7 | 1640.6 | 1598.9 |
| 50° | 1765.5 | 1778.5 | 1808.1 | 1865.4 | 1956.2 | 1967.0 | 1875.1 | 1840.4 | 1816.8 | 1791.3 | 1729.9 |
| 52.5° | 1748.5 | 1771.8 | 1811.7 | 1908.1 | 2040.0 | 2095.4 | 2038.6 | 2008.2 | 1981.3 | 1939.6 | 1848.6 |
| 55° | 1649.0 | 1672.3 | 1753.9 | 1907.6 | 2081.6 | 2185.5 | 2193.2 | 2179.6 | 2149.4 | 2083.6 | 1944.5 |
| 57.5° | 1439.2 | 1473.7 | 1603.0 | 1842.6 | 2080.9 | 2263.0 | 2344.6 | 2354.3 | 2320.6 | 2226.4 | 2020.0 |
| 60° | 1148.6 | 1195.5 | 1353.0 | 1698.6 | 2016.6 | 2304.9 | 2477.3 | 2526.0 | 2490.1 | 2367.1 | 2081.1 |
| 62.5° | 801.4 | 855.7 | 1004.9 | 1473.0 | 1869.8 | 2274.8 | 2574.3 | 2664.1 | 2637.0 | 2493.0 | 2104.6 |
| 65° | 488.8 | 506.2 | 626.5 | 1159.2 | 1620.1 | 2148.4 | 2604.2 | 2738.8 | 2729.9 | 2570.0 | 2069.9 |
| 67.5° | 325.6 | 340.2 | 374.7 | 794.8 | 1257.6 | 1895.8 | 2532.7 | 2725.8 | 2728.3 | 2557.5 | 1942.5 |
| 70° | 196.2 | 208.8 | 231.2 | 462.3 | 815.1 | 1500.6 | 2310.9 | 2559.5 | 2574.3 | 2389.9 | 1701.0 |
| 72.5° | 80.9 | 89.3 | 109.8 | 209.5 | 422.1 | 952.4 | 1840.1 | 2197.5 | 2232.0 | 2009.5 | 1305.4 |
| 75° | 45.8 | 50.1 | 64.5 | 105.2 | 183.2 | 443.8 | 1114.6 | 1559.9 | 1610.9 | 1385.0 | 785.4 |
| 77.5° | 30.4 | 32.5 | 41.7 | 68.1 | 103.1 | 151.5 | 476.3 | 812.7 | 910.0 | 756.4 | 340.0 |
| 80° | 20.5 | 22.2 | 28.7 | 45.5 | 67.0 | 65.0 | 151.7 | 301.1 | 370.4 | 259.9 | 82.9 |
| 82.5° | 13.8 | 14.0 | 20.5 | 29.9 | 42.4 | 31.5 | 44.8 | 93.6 | 117.7 | 75.2 | 31.5 |
| 85° | 7.9 | 7.7 | 15.1 | 17.4 | 19.0 | 13.0 | 13.5 | 28.2 | 36.8 | 31.7 | 17.9 |
| 87.5° | 1.0 | 1.5 | 5.8 | 4.6 | 2.6 | 2.8 | 2.8 | 4.8 | 7.2 | 7.7 | 3.8 |
| 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° | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 | 443.8 |
| 2.5° | 444.3 | 444.1 | 443.3 | 442.6 | 440.7 | 439.7 | 440.2 | 439.7 | 439.5 | 439.7 | 440.7 |
| 5° | 447.7 | 446.9 | 444.8 | 442.3 | 438.7 | 434.4 | 431.5 | 427.5 | 423.6 | 421.4 | 421.9 |
| 7.5° | 456.6 | 455.9 | 453.0 | 445.9 | 434.4 | 416.3 | 399.5 | 385.0 | 374.0 | 367.6 | 367.9 |
| 10° | 471.0 | 469.7 | 465.4 | 449.5 | 419.3 | 379.7 | 346.7 | 319.3 | 301.3 | 292.9 | 292.1 |
| 12.5° | 487.9 | 486.4 | 478.7 | 446.2 | 390.6 | 328.7 | 283.2 | 252.8 | 236.2 | 228.7 | 228.0 |
| 15° | 507.8 | 505.7 | 490.7 | 430.3 | 348.9 | 272.4 | 230.7 | 208.0 | 197.2 | 190.5 | 190.9 |
| 17.5° | 532.6 | 529.0 | 499.6 | 406.5 | 303.7 | 229.5 | 198.5 | 181.4 | 171.9 | 165.5 | 165.0 |
| 20° | 564.9 | 558.9 | 506.8 | 378.1 | 262.0 | 202.3 | 176.8 | 162.5 | 155.3 | 149.6 | 148.6 |
| 22.5° | 609.9 | 601.5 | 515.5 | 347.4 | 232.6 | 183.7 | 160.6 | 150.2 | 144.3 | 137.9 | 136.8 |
| 25° | 665.6 | 655.7 | 526.2 | 319.0 | 212.4 | 167.6 | 148.9 | 140.2 | 133.2 | 125.9 | 125.0 |
| 27.5° | 743.6 | 725.8 | 539.0 | 295.7 | 195.0 | 153.8 | 138.2 | 128.4 | 120.5 | 114.4 | 113.1 |
| 30° | 830.7 | 801.2 | 550.2 | 281.7 | 179.1 | 140.9 | 124.0 | 114.4 | 106.9 | 102.6 | 101.8 |
| 32.5° | 913.1 | 873.1 | 557.7 | 275.5 | 164.7 | 126.4 | 108.8 | 98.2 | 92.6 | 91.3 | 92.0 |
| 35° | 990.8 | 938.1 | 556.9 | 269.7 | 152.0 | 111.8 | 93.6 | 82.9 | 78.5 | 79.3 | 79.3 |
| 37.5° | 1080.4 | 1007.5 | 551.6 | 260.5 | 141.4 | 98.5 | 80.6 | 71.1 | 67.2 | 67.5 | 68.6 |
| 40° | 1184.5 | 1087.5 | 548.3 | 243.0 | 130.0 | 86.2 | 69.8 | 62.1 | 59.3 | 58.3 | 58.1 |
| 42.5° | 1295.5 | 1165.0 | 548.8 | 223.3 | 115.6 | 75.2 | 62.4 | 56.1 | 53.5 | 52.7 | 52.5 |
| 45° | 1407.0 | 1238.9 | 549.5 | 202.8 | 100.6 | 66.7 | 57.1 | 51.7 | 50.1 | 49.1 | 49.1 |
| 47.5° | 1511.9 | 1301.9 | 535.2 | 180.9 | 85.7 | 60.4 | 52.7 | 49.1 | 47.9 | 46.5 | 46.5 |
| 50° | 1609.7 | 1343.9 | 500.6 | 155.3 | 73.9 | 55.2 | 49.4 | 46.8 | 45.5 | 44.3 | 44.3 |
| 52.5° | 1685.6 | 1350.4 | 443.6 | 128.9 | 65.7 | 51.5 | 47.4 | 45.0 | 43.5 | 42.2 | 41.9 |
| 55° | 1719.3 | 1308.8 | 362.5 | 104.3 | 59.3 | 48.1 | 45.3 | 42.9 | 41.2 | 39.9 | 39.7 |
| 57.5° | 1710.7 | 1221.1 | 282.7 | 83.9 | 53.2 | 44.8 | 42.7 | 41.2 | 39.2 | 37.1 | 36.8 |
| 60° | 1668.0 | 1103.6 | 213.1 | 69.8 | 47.6 | 41.2 | 39.9 | 38.6 | 35.8 | 32.7 | 32.2 |
| 62.5° | 1594.0 | 956.0 | 152.0 | 57.8 | 41.4 | 37.1 | 36.6 | 35.6 | 31.5 | 25.8 | 25.3 |
| 65° | 1480.9 | 776.6 | 102.3 | 48.1 | 35.6 | 32.5 | 32.7 | 31.0 | 25.6 | 19.2 | 18.7 |
| 67.5° | 1315.7 | 568.0 | 65.5 | 39.4 | 29.7 | 27.2 | 27.4 | 26.3 | 21.7 | 16.4 | 15.6 |
| 70° | 1105.2 | 376.1 | 42.7 | 29.9 | 23.8 | 21.0 | 22.5 | 22.8 | 18.4 | 13.3 | 12.8 |
| 72.5° | 810.2 | 222.0 | 29.9 | 22.2 | 17.4 | 14.6 | 18.4 | 19.0 | 14.9 | 9.9 | 9.4 |
| 75° | 461.8 | 105.4 | 22.5 | 16.1 | 10.8 | 10.2 | 14.3 | 14.3 | 10.2 | 6.7 | 6.1 |
| 77.5° | 193.9 | 44.0 | 15.9 | 10.5 | 6.1 | 5.8 | 9.7 | 8.9 | 5.1 | 3.1 | 3.1 |
| 80° | 56.1 | 19.7 | 8.4 | 5.1 | 2.6 | 2.3 | 3.8 | 2.8 | 1.2 | 0.5 | 0.5 |
| 82.5° | 22.0 | 8.7 | 3.3 | 2.0 | 1.0 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.0 | 3.6 | 1.5 | 0.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.3 | 0.7 | 0.5 | 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)