

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: P881718

Luminaire Tested: **NVN-SB1B-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4351 lumens
Efficiency: N/A
Efficacy: 109.3 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

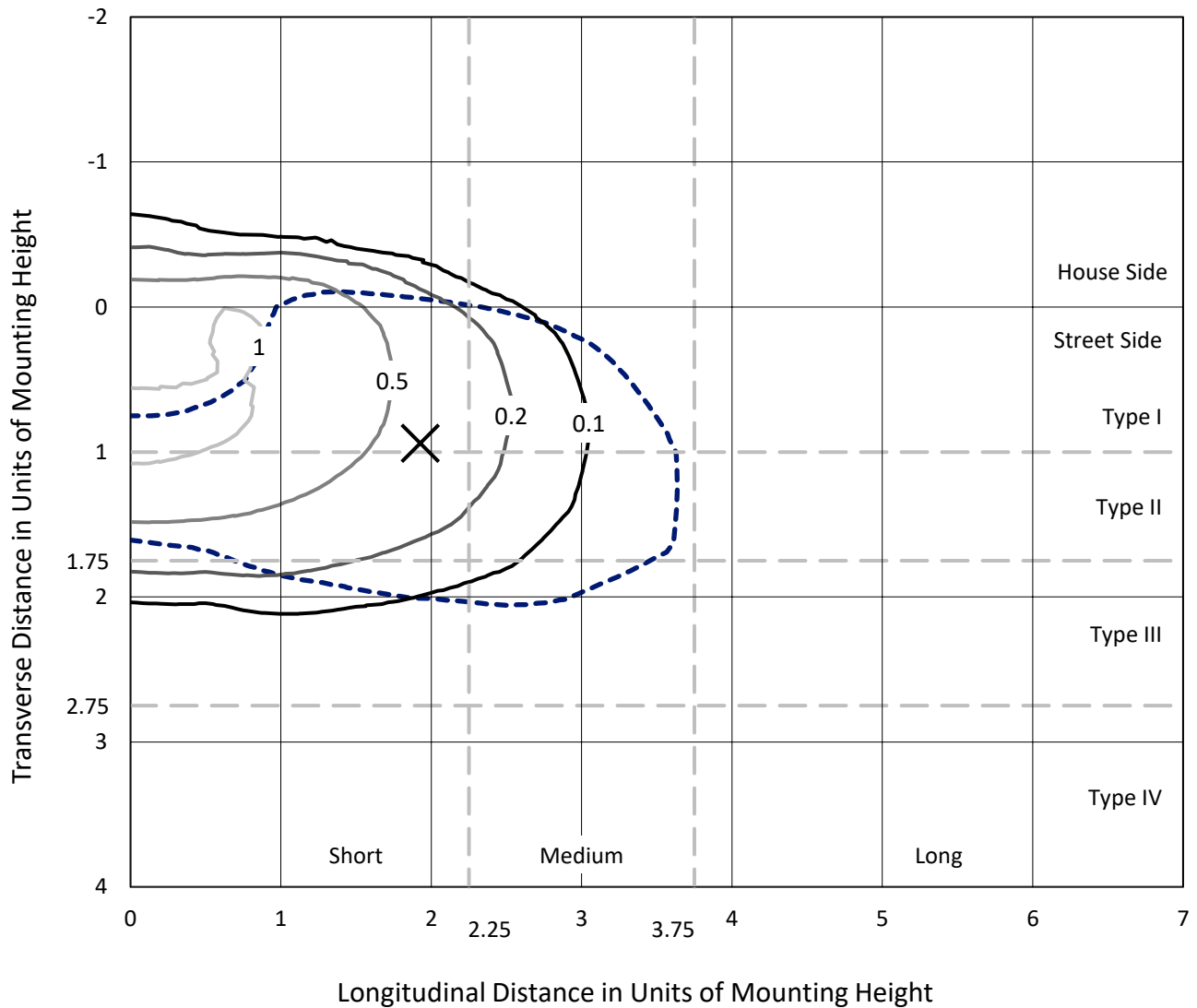
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

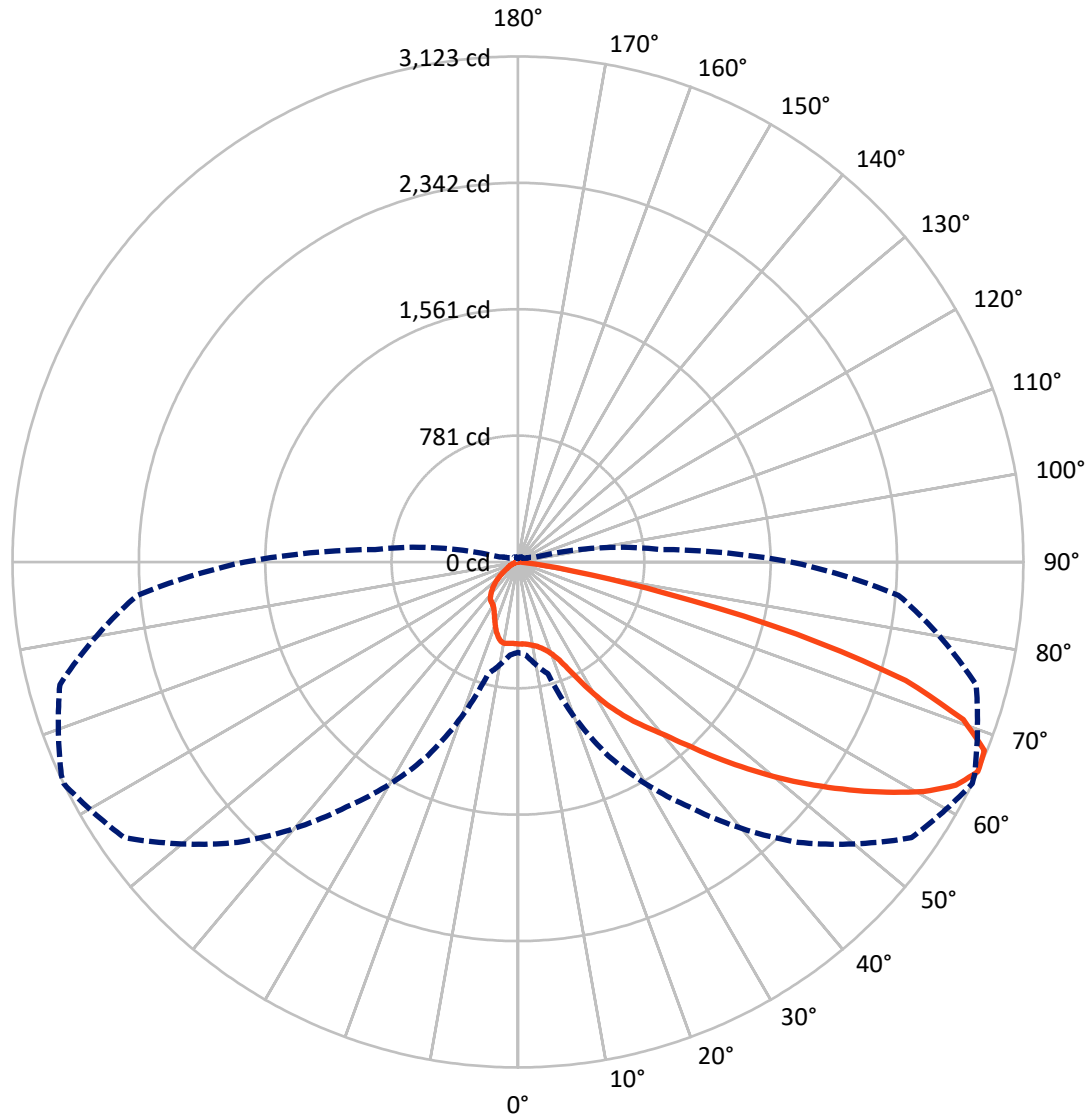
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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 | 581.9 | 0.0 | 581.9 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 3769.1 | 0.0 | 3769.1 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 4351.0 | 0.0 | 4351.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.7 | 1.1 |
| 10°-20° | 126.6 | 2.9 |
| 20°-30° | 240.0 | 5.5 |
| 30°-40° | 485.6 | 11.2 |
| 40°-50° | 827.2 | 19.0 |
| 50°-60° | 1124.9 | 25.9 |
| 60°-70° | 1056.3 | 24.3 |
| 70°-80° | 423.2 | 9.7 |
| 80°-90° | 20.5 | 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° | 4351.0 | 100.0 |
| 0°-180° | 4351.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P881718

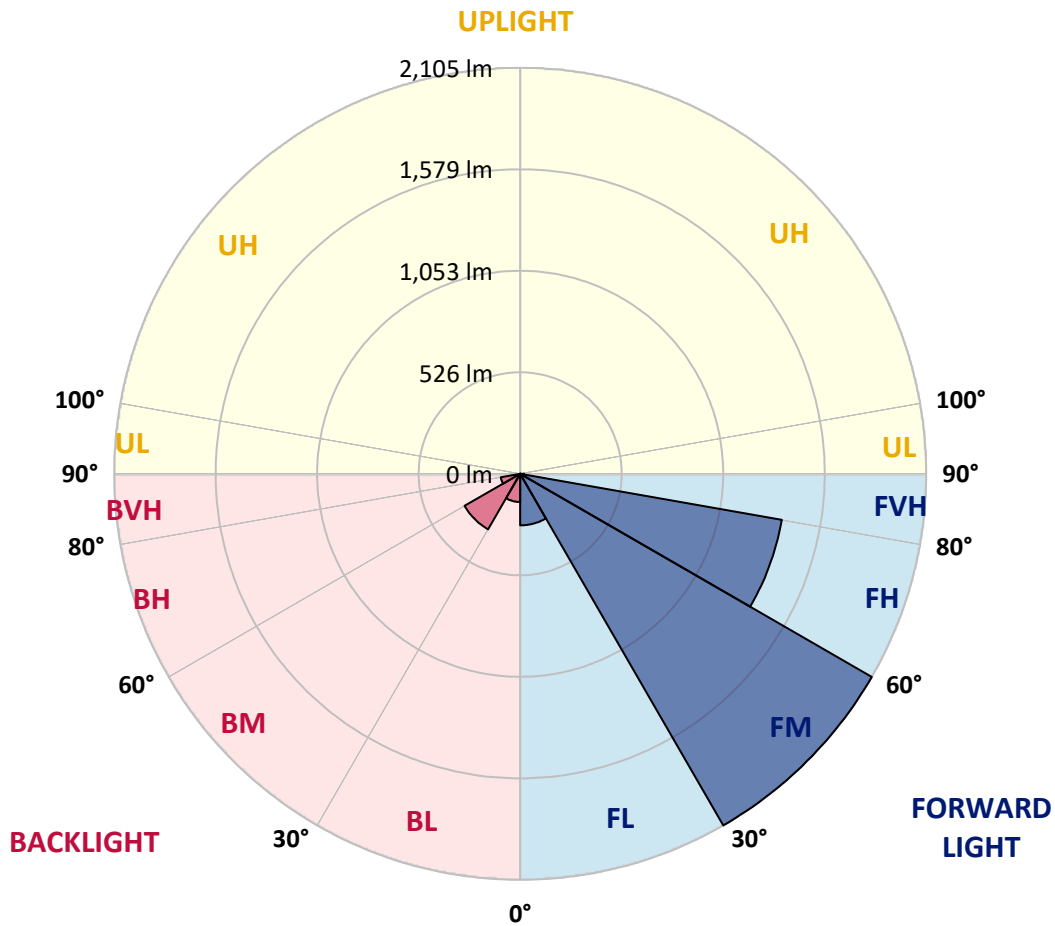
CATALOG NUMBER: NVN-SB1B-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 267.2 | 6.1 | | | |
| FM (30°-60°) | 2105.0 | 48.4 | | | |
| FH (60°-80°) | 1377.4 | 31.7 | | | G1/1800 |
| FVH (80°-90°) | 19.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 146.1 | 3.4 | B1/500 | | |
| BM (30°-60°) | 332.6 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 102.1 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.0 | 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



REPORT NUMBER: P881718

CATALOG NUMBER: NVN-SB1B-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 |
| 2.5° | 504.3 | 507.8 | 506.9 | 506.1 | 505.8 | 506.4 | 506.6 | 506.4 | 506.4 | 506.4 | 506.6 |
| 5° | 494.7 | 497.6 | 497.6 | 499.6 | 502.6 | 506.1 | 508.7 | 509.3 | 509.9 | 510.7 | 510.4 |
| 7.5° | 476.3 | 478.6 | 480.4 | 487.1 | 494.4 | 503.7 | 511.6 | 515.7 | 516.3 | 519.5 | 520.7 |
| 10° | 463.8 | 466.7 | 469.6 | 476.6 | 487.1 | 501.1 | 514.5 | 524.4 | 525.9 | 533.5 | 537.0 |
| 12.5° | 463.2 | 466.1 | 469.9 | 477.5 | 489.7 | 504.6 | 520.9 | 535.2 | 537.9 | 548.9 | 556.2 |
| 15° | 469.3 | 472.8 | 476.3 | 485.6 | 498.8 | 516.9 | 534.4 | 552.2 | 554.8 | 570.5 | 578.4 |
| 17.5° | 481.9 | 486.5 | 489.1 | 498.5 | 512.5 | 532.6 | 555.7 | 576.1 | 578.4 | 596.8 | 606.7 |
| 20° | 506.6 | 512.2 | 513.1 | 520.7 | 534.4 | 555.9 | 583.4 | 608.7 | 611.7 | 632.7 | 643.7 |
| 22.5° | 558.0 | 565.9 | 558.9 | 562.7 | 574.9 | 596.5 | 626.2 | 658.3 | 662.4 | 686.3 | 696.2 |
| 25° | 648.4 | 659.5 | 641.4 | 635.0 | 640.2 | 662.7 | 700.0 | 740.6 | 745.2 | 764.5 | 769.5 |
| 27.5° | 826.0 | 811.7 | 784.3 | 757.5 | 741.7 | 754.6 | 796.6 | 846.7 | 852.6 | 871.3 | 865.4 |
| 30° | 1021.2 | 1008.6 | 971.6 | 912.1 | 874.8 | 872.7 | 911.5 | 967.5 | 974.2 | 992.0 | 974.2 |
| 32.5° | 1216.6 | 1204.6 | 1164.4 | 1091.2 | 1026.4 | 994.3 | 1021.2 | 1083.3 | 1086.8 | 1098.2 | 1071.9 |
| 35° | 1408.8 | 1396.6 | 1356.3 | 1281.4 | 1201.7 | 1128.8 | 1123.6 | 1193.6 | 1194.7 | 1206.7 | 1167.6 |
| 37.5° | 1602.2 | 1592.0 | 1549.1 | 1475.6 | 1397.2 | 1296.5 | 1247.8 | 1298.0 | 1299.4 | 1311.1 | 1270.6 |
| 40° | 1740.2 | 1744.5 | 1715.1 | 1658.2 | 1590.8 | 1480.9 | 1387.2 | 1409.1 | 1400.4 | 1419.9 | 1395.7 |
| 42.5° | 1858.6 | 1867.3 | 1841.7 | 1813.1 | 1774.0 | 1677.2 | 1559.9 | 1556.1 | 1542.1 | 1552.6 | 1527.5 |
| 45° | 1961.0 | 1968.3 | 1945.2 | 1938.5 | 1937.6 | 1869.7 | 1748.6 | 1725.9 | 1706.3 | 1704.3 | 1674.2 |
| 47.5° | 1998.6 | 2012.6 | 2022.5 | 2045.0 | 2088.7 | 2060.1 | 1943.8 | 1908.5 | 1886.6 | 1870.6 | 1823.0 |
| 50° | 2012.9 | 2027.8 | 2061.6 | 2126.9 | 2230.5 | 2242.7 | 2138.0 | 2098.4 | 2071.5 | 2042.4 | 1972.3 |
| 52.5° | 1993.6 | 2020.2 | 2065.7 | 2175.6 | 2325.9 | 2389.2 | 2324.4 | 2289.7 | 2259.1 | 2211.5 | 2107.7 |
| 55° | 1880.2 | 1906.7 | 1999.8 | 2175.1 | 2373.4 | 2491.8 | 2500.6 | 2485.1 | 2450.7 | 2375.7 | 2217.1 |
| 57.5° | 1641.0 | 1680.4 | 1827.7 | 2101.0 | 2372.5 | 2580.2 | 2673.3 | 2684.3 | 2645.8 | 2538.5 | 2303.1 |
| 60° | 1309.6 | 1363.0 | 1542.7 | 1936.8 | 2299.3 | 2628.0 | 2824.6 | 2880.1 | 2839.2 | 2698.9 | 2372.8 |
| 62.5° | 913.8 | 975.7 | 1145.7 | 1679.5 | 2131.9 | 2593.6 | 2935.2 | 3037.6 | 3006.6 | 2842.4 | 2399.7 |
| 65° | 557.4 | 577.2 | 714.3 | 1321.6 | 1847.2 | 2449.5 | 2969.3 | 3122.7 | 3112.5 | 2930.2 | 2360.0 |
| 67.5° | 371.3 | 387.9 | 427.3 | 906.3 | 1433.9 | 2161.6 | 2887.6 | 3107.9 | 3110.8 | 2915.9 | 2214.7 |
| 70° | 223.7 | 238.0 | 263.7 | 527.1 | 929.3 | 1711.0 | 2634.8 | 2918.3 | 2935.2 | 2724.9 | 1939.4 |
| 72.5° | 92.2 | 101.8 | 125.1 | 238.9 | 481.3 | 1085.9 | 2098.1 | 2505.5 | 2544.9 | 2291.2 | 1488.4 |
| 75° | 52.2 | 57.2 | 73.5 | 119.9 | 208.8 | 506.1 | 1270.9 | 1778.7 | 1836.7 | 1579.2 | 895.5 |
| 77.5° | 34.7 | 37.0 | 47.5 | 77.6 | 117.5 | 172.7 | 543.1 | 926.7 | 1037.5 | 862.5 | 387.6 |
| 80° | 23.3 | 25.4 | 32.7 | 51.9 | 76.4 | 74.1 | 173.0 | 343.3 | 422.4 | 296.3 | 94.5 |
| 82.5° | 15.8 | 16.0 | 23.3 | 34.1 | 48.4 | 35.9 | 51.0 | 106.8 | 134.2 | 85.8 | 35.9 |
| 85° | 9.0 | 8.8 | 17.2 | 19.8 | 21.6 | 14.9 | 15.5 | 32.1 | 42.0 | 36.2 | 20.4 |
| 87.5° | 1.2 | 1.8 | 6.7 | 5.3 | 2.9 | 3.2 | 3.2 | 5.5 | 8.2 | 8.8 | 4.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P881718

CATALOG NUMBER: NVN-SB1B-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 |
| 2.5° | 506.6 | 506.4 | 505.5 | 504.6 | 502.6 | 501.4 | 502.0 | 501.4 | 501.1 | 501.4 | 502.6 |
| 5° | 510.4 | 509.6 | 507.2 | 504.3 | 500.2 | 495.3 | 492.1 | 487.4 | 483.0 | 480.4 | 481.0 |
| 7.5° | 520.7 | 519.8 | 516.6 | 508.4 | 495.3 | 474.6 | 455.6 | 439.0 | 426.4 | 419.1 | 419.4 |
| 10° | 537.0 | 535.5 | 530.6 | 512.5 | 478.1 | 432.9 | 395.2 | 364.0 | 343.6 | 334.0 | 333.1 |
| 12.5° | 556.2 | 554.5 | 545.7 | 508.7 | 445.4 | 374.8 | 322.9 | 288.2 | 269.2 | 260.8 | 259.9 |
| 15° | 579.0 | 576.7 | 559.4 | 490.6 | 397.9 | 310.6 | 263.1 | 237.1 | 224.9 | 217.3 | 217.6 |
| 17.5° | 607.3 | 603.2 | 569.7 | 463.5 | 346.2 | 261.6 | 226.3 | 206.8 | 196.0 | 188.7 | 188.1 |
| 20° | 644.0 | 637.3 | 577.8 | 431.1 | 298.7 | 230.7 | 201.6 | 185.2 | 177.1 | 170.6 | 169.5 |
| 22.5° | 695.4 | 685.7 | 587.7 | 396.1 | 265.1 | 209.4 | 183.2 | 171.2 | 164.5 | 157.2 | 156.0 |
| 25° | 759.0 | 747.6 | 600.0 | 363.7 | 242.1 | 191.1 | 169.8 | 159.8 | 152.0 | 143.5 | 142.6 |
| 27.5° | 847.9 | 827.5 | 614.6 | 337.2 | 222.3 | 175.3 | 157.5 | 146.4 | 137.4 | 130.4 | 128.9 |
| 30° | 947.1 | 913.5 | 627.4 | 321.1 | 204.2 | 160.7 | 141.5 | 130.4 | 121.9 | 117.0 | 116.1 |
| 32.5° | 1041.0 | 995.5 | 635.9 | 314.1 | 187.8 | 144.1 | 124.0 | 112.0 | 105.6 | 104.1 | 105.0 |
| 35° | 1129.7 | 1069.6 | 635.0 | 307.4 | 173.3 | 127.5 | 106.8 | 94.5 | 89.5 | 90.4 | 90.4 |
| 37.5° | 1231.8 | 1148.6 | 628.9 | 296.9 | 161.3 | 112.3 | 91.9 | 81.1 | 76.7 | 77.0 | 78.2 |
| 40° | 1350.5 | 1239.9 | 625.1 | 277.1 | 148.2 | 98.3 | 79.6 | 70.9 | 67.7 | 66.5 | 66.2 |
| 42.5° | 1477.1 | 1328.3 | 625.7 | 254.6 | 131.8 | 85.8 | 71.2 | 63.9 | 61.0 | 60.1 | 59.8 |
| 45° | 1604.2 | 1412.6 | 626.5 | 231.3 | 114.6 | 76.1 | 65.0 | 58.9 | 57.2 | 56.0 | 56.0 |
| 47.5° | 1723.8 | 1484.4 | 610.2 | 206.2 | 97.7 | 68.8 | 60.1 | 56.0 | 54.5 | 53.1 | 53.1 |
| 50° | 1835.3 | 1532.2 | 570.8 | 177.1 | 84.3 | 63.0 | 56.3 | 53.4 | 51.9 | 50.5 | 50.5 |
| 52.5° | 1921.9 | 1539.8 | 505.8 | 147.0 | 75.0 | 58.6 | 54.0 | 51.3 | 49.6 | 48.1 | 47.8 |
| 55° | 1960.4 | 1492.2 | 413.3 | 119.0 | 67.7 | 54.8 | 51.6 | 49.0 | 47.0 | 45.5 | 45.2 |
| 57.5° | 1950.5 | 1392.2 | 322.3 | 95.7 | 60.7 | 51.0 | 48.7 | 47.0 | 44.6 | 42.3 | 42.0 |
| 60° | 1901.8 | 1258.3 | 243.0 | 79.6 | 54.3 | 47.0 | 45.5 | 44.0 | 40.8 | 37.3 | 36.8 |
| 62.5° | 1817.5 | 1090.0 | 173.3 | 65.9 | 47.3 | 42.3 | 41.7 | 40.5 | 35.9 | 29.5 | 28.9 |
| 65° | 1688.5 | 885.5 | 116.7 | 54.8 | 40.5 | 37.0 | 37.3 | 35.3 | 29.2 | 21.9 | 21.3 |
| 67.5° | 1500.1 | 647.5 | 74.7 | 44.9 | 33.8 | 30.9 | 31.2 | 30.0 | 24.8 | 18.7 | 17.8 |
| 70° | 1260.1 | 428.8 | 48.7 | 34.1 | 27.1 | 23.9 | 25.7 | 26.0 | 21.0 | 15.2 | 14.6 |
| 72.5° | 923.8 | 253.2 | 34.1 | 25.4 | 19.8 | 16.6 | 21.0 | 21.6 | 16.9 | 11.4 | 10.8 |
| 75° | 526.5 | 120.2 | 25.7 | 18.4 | 12.3 | 11.7 | 16.3 | 16.3 | 11.7 | 7.6 | 7.0 |
| 77.5° | 221.1 | 50.2 | 18.1 | 12.0 | 7.0 | 6.7 | 11.1 | 10.2 | 5.8 | 3.5 | 3.5 |
| 80° | 63.9 | 22.5 | 9.6 | 5.8 | 2.9 | 2.6 | 4.4 | 3.2 | 1.5 | 0.6 | 0.6 |
| 82.5° | 25.1 | 9.9 | 3.8 | 2.3 | 1.2 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 14.9 | 4.1 | 1.8 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.8 | 0.9 | 0.6 | 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)