

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: P882088

Luminaire Tested: **NVN-SB1D-750-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882088
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-SB1D-750-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA 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: 8612 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

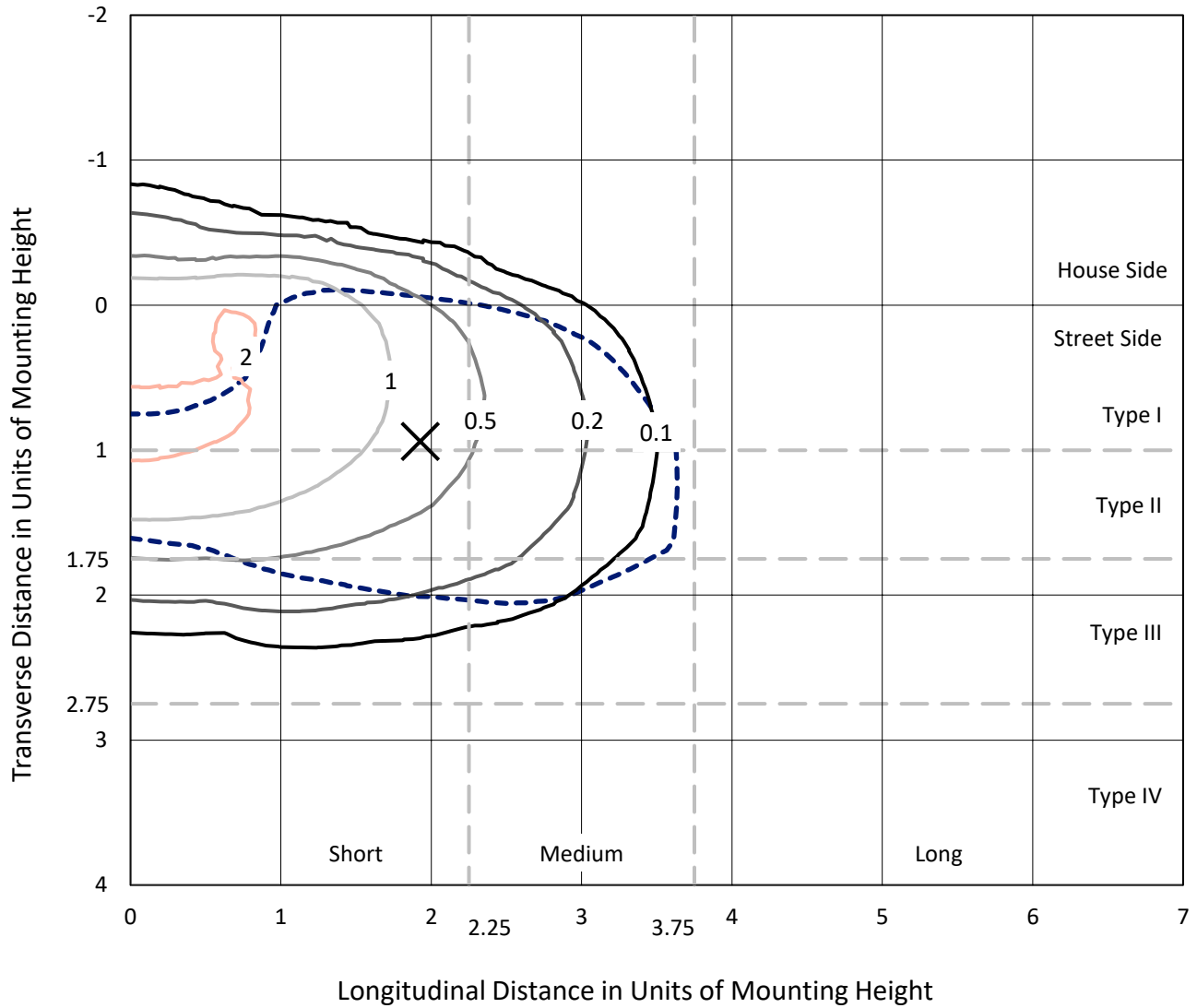
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

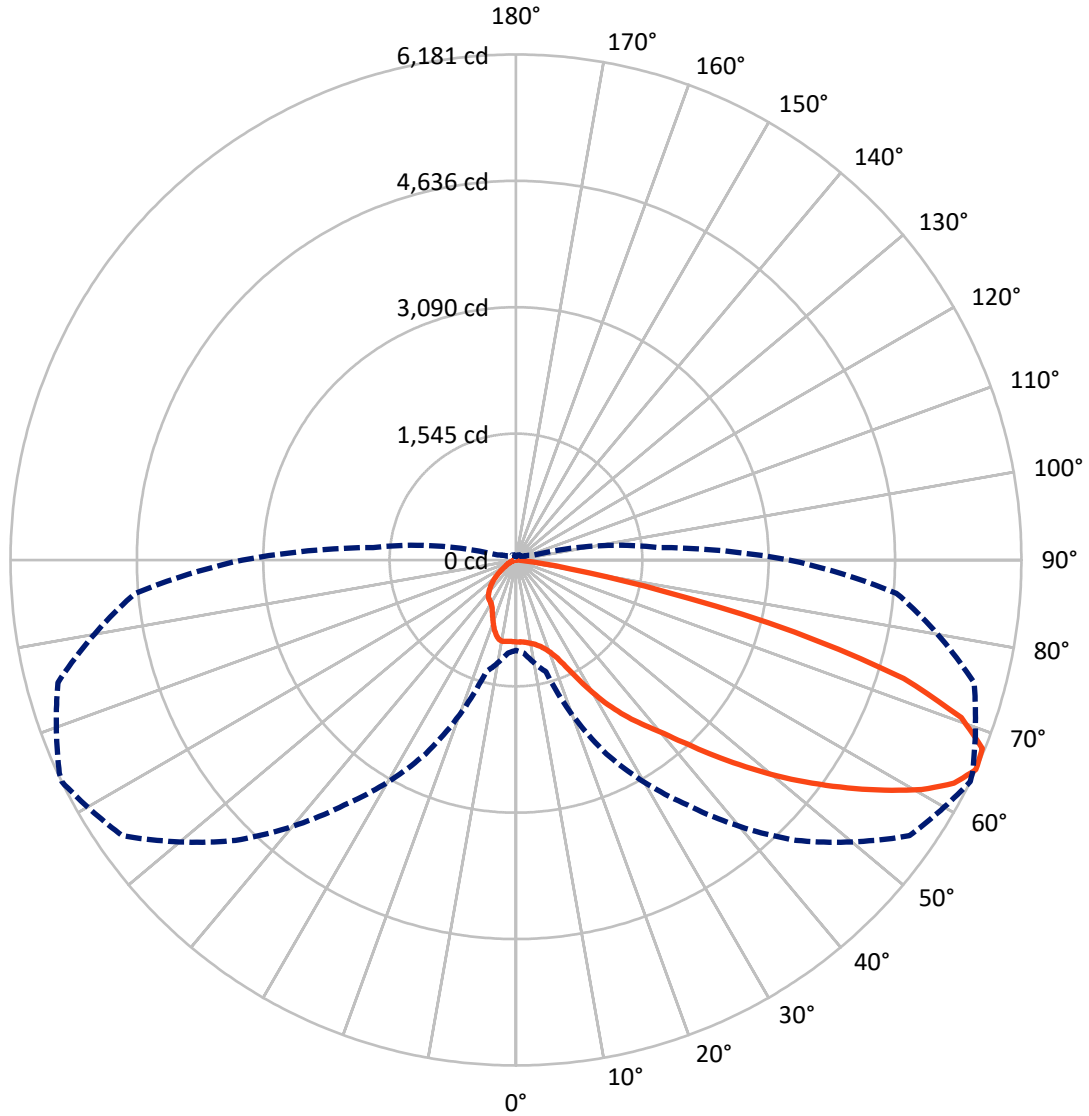
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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 | 1151.7 | 0.0 | 1151.7 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 7460.3 | 0.0 | 7460.3 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 8612.0 | 0.0 | 8612.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.4 | 1.1 |
| 10°-20° | 250.7 | 2.9 |
| 20°-30° | 475.0 | 5.5 |
| 30°-40° | 961.1 | 11.2 |
| 40°-50° | 1637.3 | 19.0 |
| 50°-60° | 2226.5 | 25.9 |
| 60°-70° | 2090.8 | 24.3 |
| 70°-80° | 837.7 | 9.7 |
| 80°-90° | 40.6 | 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° | 8612.0 | 100.0 |
| 0°-180° | 8612.0 | 100.0 |

Coefficient of Utilization



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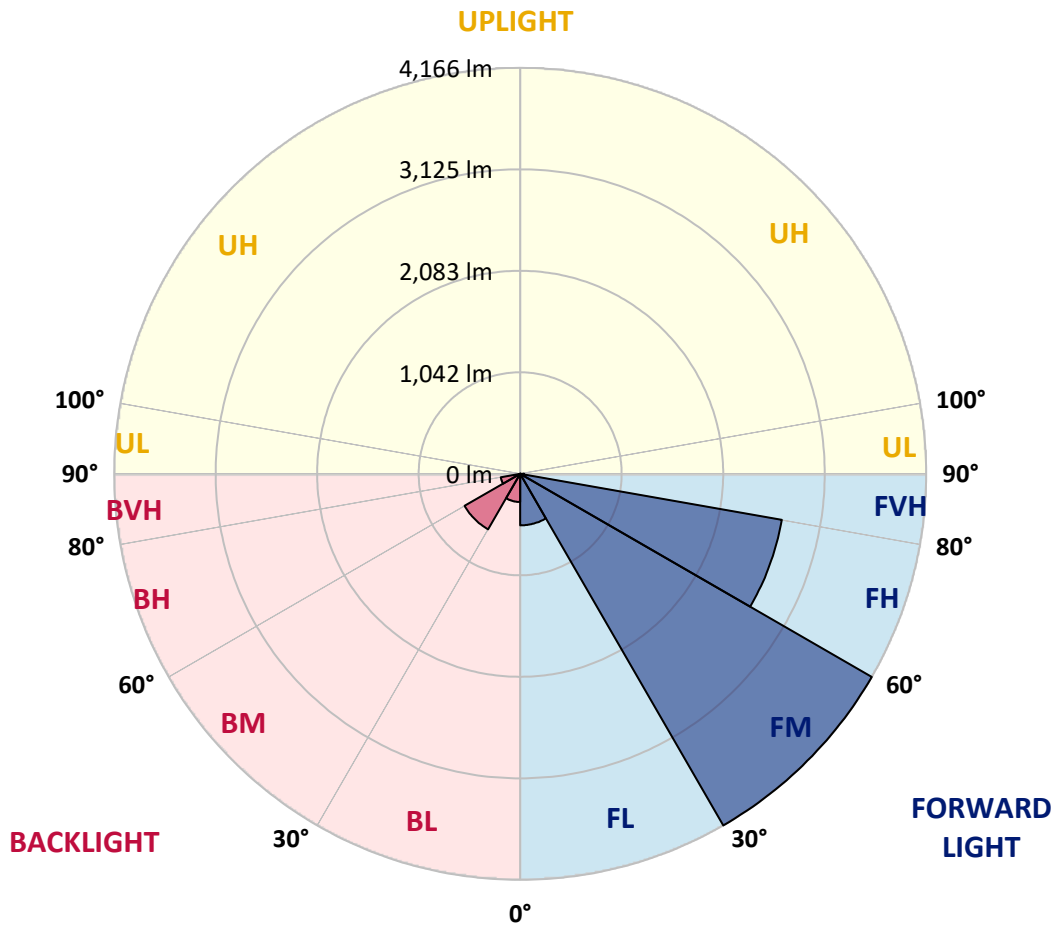
CATALOG NUMBER: NVN-SB1D-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 528.9 | 6.1 | | | |
| FM (30°-60°) | 4166.5 | 48.4 | | | |
| FH (60°-80°) | 2726.4 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 38.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 289.2 | 3.4 | B1/500 | | |
| BM (30°-60°) | 658.4 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 202.1 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.0 | 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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 |
| 2.5° | 998.2 | 1005.1 | 1003.4 | 1001.7 | 1001.1 | 1002.2 | 1002.8 | 1002.2 | 1002.2 | 1002.2 | 1002.8 |
| 5° | 979.1 | 984.9 | 984.9 | 989.0 | 994.7 | 1001.7 | 1006.9 | 1008.0 | 1009.2 | 1010.9 | 1010.3 |
| 7.5° | 942.8 | 947.4 | 950.9 | 964.1 | 978.6 | 997.0 | 1012.6 | 1020.7 | 1021.9 | 1028.2 | 1030.5 |
| 10° | 918.0 | 923.7 | 929.5 | 943.4 | 964.1 | 991.9 | 1018.4 | 1038.0 | 1040.9 | 1055.9 | 1062.9 |
| 12.5° | 916.8 | 922.6 | 930.1 | 945.1 | 969.3 | 998.8 | 1031.1 | 1059.4 | 1064.6 | 1086.5 | 1101.0 |
| 15° | 928.9 | 935.8 | 942.8 | 961.3 | 987.2 | 1023.0 | 1057.7 | 1092.9 | 1098.1 | 1129.3 | 1144.8 |
| 17.5° | 953.7 | 963.0 | 968.2 | 986.7 | 1014.4 | 1054.2 | 1099.8 | 1140.2 | 1144.8 | 1181.2 | 1200.8 |
| 20° | 1002.8 | 1013.8 | 1015.5 | 1030.5 | 1057.7 | 1100.4 | 1154.7 | 1204.9 | 1210.7 | 1252.2 | 1274.2 |
| 22.5° | 1104.4 | 1120.0 | 1106.2 | 1113.7 | 1137.9 | 1180.6 | 1239.5 | 1303.0 | 1311.1 | 1358.5 | 1378.1 |
| 25° | 1283.4 | 1305.3 | 1269.5 | 1256.8 | 1267.2 | 1311.7 | 1385.6 | 1465.8 | 1475.1 | 1513.2 | 1523.0 |
| 27.5° | 1635.0 | 1606.7 | 1552.4 | 1499.3 | 1468.1 | 1493.5 | 1576.7 | 1676.0 | 1687.5 | 1724.5 | 1712.9 |
| 30° | 2021.2 | 1996.4 | 1923.1 | 1805.3 | 1731.4 | 1727.4 | 1804.2 | 1915.0 | 1928.3 | 1963.5 | 1928.3 |
| 32.5° | 2408.0 | 2384.4 | 2304.7 | 2159.8 | 2031.6 | 1968.1 | 2021.2 | 2144.2 | 2151.1 | 2173.6 | 2121.7 |
| 35° | 2788.5 | 2764.2 | 2684.6 | 2536.2 | 2378.6 | 2234.3 | 2223.9 | 2362.4 | 2364.7 | 2388.4 | 2311.0 |
| 37.5° | 3171.3 | 3151.1 | 3066.2 | 2920.7 | 2765.4 | 2566.2 | 2469.8 | 2569.1 | 2572.0 | 2595.1 | 2514.8 |
| 40° | 3444.3 | 3453.0 | 3394.7 | 3282.1 | 3148.7 | 2931.1 | 2745.8 | 2789.1 | 2771.8 | 2810.4 | 2762.5 |
| 42.5° | 3678.7 | 3696.1 | 3645.3 | 3588.7 | 3511.3 | 3319.6 | 3087.6 | 3080.0 | 3052.3 | 3073.1 | 3023.5 |
| 45° | 3881.4 | 3895.8 | 3850.2 | 3836.9 | 3835.2 | 3700.7 | 3461.1 | 3416.1 | 3377.4 | 3373.3 | 3313.9 |
| 47.5° | 3955.9 | 3983.6 | 4003.2 | 4047.7 | 4134.2 | 4077.7 | 3847.3 | 3777.5 | 3734.2 | 3702.4 | 3608.3 |
| 50° | 3984.1 | 4013.6 | 4080.6 | 4209.9 | 4414.8 | 4439.1 | 4231.8 | 4153.3 | 4100.2 | 4042.5 | 3903.9 |
| 52.5° | 3946.0 | 3998.6 | 4088.6 | 4306.3 | 4603.6 | 4728.9 | 4600.7 | 4532.0 | 4471.4 | 4377.3 | 4171.8 |
| 55° | 3721.5 | 3774.0 | 3958.2 | 4305.1 | 4697.7 | 4932.1 | 4949.4 | 4918.8 | 4850.7 | 4702.3 | 4388.3 |
| 57.5° | 3248.1 | 3326.0 | 3617.5 | 4158.5 | 4696.0 | 5107.0 | 5291.2 | 5313.2 | 5236.9 | 5024.5 | 4558.6 |
| 60° | 2592.2 | 2697.9 | 3053.5 | 3833.5 | 4551.1 | 5201.7 | 5590.8 | 5700.5 | 5619.7 | 5342.0 | 4696.6 |
| 62.5° | 1808.8 | 1931.2 | 2267.7 | 3324.3 | 4219.7 | 5133.6 | 5809.7 | 6012.3 | 5951.1 | 5626.1 | 4749.7 |
| 65° | 1103.3 | 1142.5 | 1413.9 | 2615.9 | 3656.2 | 4848.4 | 5877.2 | 6180.9 | 6160.7 | 5799.8 | 4671.2 |
| 67.5° | 734.9 | 767.8 | 845.8 | 1793.8 | 2838.1 | 4278.6 | 5715.6 | 6151.4 | 6157.2 | 5771.6 | 4383.7 |
| 70° | 442.8 | 471.1 | 521.9 | 1043.2 | 1839.4 | 3386.6 | 5215.0 | 5776.2 | 5809.7 | 5393.4 | 3838.7 |
| 72.5° | 182.4 | 201.5 | 247.7 | 472.8 | 952.6 | 2149.4 | 4152.7 | 4959.3 | 5037.2 | 4534.9 | 2946.1 |
| 75° | 103.3 | 113.2 | 145.5 | 237.3 | 413.4 | 1001.7 | 2515.4 | 3520.5 | 3635.4 | 3125.7 | 1772.4 |
| 77.5° | 68.7 | 73.3 | 94.1 | 153.6 | 232.7 | 341.8 | 1075.0 | 1834.2 | 2053.6 | 1707.2 | 767.3 |
| 80° | 46.2 | 50.2 | 64.7 | 102.8 | 151.3 | 146.6 | 342.4 | 679.5 | 836.0 | 586.6 | 187.1 |
| 82.5° | 31.2 | 31.8 | 46.2 | 67.5 | 95.8 | 71.0 | 101.0 | 211.3 | 265.6 | 169.7 | 71.0 |
| 85° | 17.9 | 17.3 | 34.1 | 39.3 | 42.7 | 29.4 | 30.6 | 63.5 | 83.1 | 71.6 | 40.4 |
| 87.5° | 2.3 | 3.5 | 13.3 | 10.4 | 5.8 | 6.4 | 6.4 | 11.0 | 16.2 | 17.3 | 8.7 |
| 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° | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 | 1001.7 |
| 2.5° | 1002.8 | 1002.2 | 1000.5 | 998.8 | 994.7 | 992.4 | 993.6 | 992.4 | 991.9 | 992.4 | 994.7 |
| 5° | 1010.3 | 1008.6 | 1004.0 | 998.2 | 990.1 | 980.3 | 974.0 | 964.7 | 956.1 | 950.9 | 952.0 |
| 7.5° | 1030.5 | 1028.8 | 1022.4 | 1006.3 | 980.3 | 939.3 | 901.8 | 868.9 | 844.1 | 829.6 | 830.2 |
| 10° | 1062.9 | 1060.0 | 1050.2 | 1014.4 | 946.2 | 856.8 | 782.3 | 720.5 | 680.1 | 661.0 | 659.3 |
| 12.5° | 1101.0 | 1097.5 | 1080.2 | 1006.9 | 881.6 | 741.9 | 639.1 | 570.4 | 532.9 | 516.1 | 514.4 |
| 15° | 1146.0 | 1141.4 | 1107.3 | 971.1 | 787.5 | 614.9 | 520.8 | 469.4 | 445.1 | 430.1 | 430.7 |
| 17.5° | 1202.0 | 1193.9 | 1127.5 | 917.4 | 685.3 | 517.9 | 448.0 | 409.3 | 388.0 | 373.5 | 372.4 |
| 20° | 1274.7 | 1261.5 | 1143.7 | 853.3 | 591.2 | 456.7 | 398.9 | 366.6 | 350.4 | 337.7 | 335.4 |
| 22.5° | 1376.4 | 1357.3 | 1163.3 | 784.0 | 524.8 | 414.5 | 362.6 | 338.9 | 325.6 | 311.2 | 308.9 |
| 25° | 1502.2 | 1479.7 | 1187.6 | 719.9 | 479.2 | 378.2 | 336.0 | 316.4 | 300.8 | 284.0 | 282.3 |
| 27.5° | 1678.3 | 1637.9 | 1216.4 | 667.4 | 439.9 | 347.0 | 311.8 | 289.8 | 271.9 | 258.1 | 255.2 |
| 30° | 1874.6 | 1808.2 | 1241.8 | 635.6 | 404.1 | 318.1 | 280.0 | 258.1 | 241.3 | 231.5 | 229.8 |
| 32.5° | 2060.5 | 1970.4 | 1258.6 | 621.8 | 371.8 | 285.2 | 245.4 | 221.7 | 209.0 | 206.1 | 207.8 |
| 35° | 2236.0 | 2117.1 | 1256.8 | 608.5 | 342.9 | 252.3 | 211.3 | 187.1 | 177.2 | 179.0 | 179.0 |
| 37.5° | 2438.1 | 2273.5 | 1244.7 | 587.7 | 319.3 | 222.3 | 181.9 | 160.5 | 151.8 | 152.4 | 154.7 |
| 40° | 2673.0 | 2454.2 | 1237.2 | 548.5 | 293.3 | 194.6 | 157.6 | 140.3 | 133.9 | 131.6 | 131.1 |
| 42.5° | 2923.6 | 2629.2 | 1238.4 | 504.0 | 261.0 | 169.7 | 140.9 | 126.4 | 120.7 | 118.9 | 118.4 |
| 45° | 3175.3 | 2796.0 | 1240.1 | 457.8 | 226.9 | 150.7 | 128.7 | 116.6 | 113.2 | 110.8 | 110.8 |
| 47.5° | 3412.0 | 2938.0 | 1207.8 | 408.2 | 193.4 | 136.2 | 118.9 | 110.8 | 108.0 | 105.1 | 105.1 |
| 50° | 3632.6 | 3032.7 | 1129.8 | 350.4 | 166.8 | 124.7 | 111.4 | 105.7 | 102.8 | 99.9 | 99.9 |
| 52.5° | 3804.0 | 3047.7 | 1001.1 | 291.0 | 148.4 | 116.0 | 106.8 | 101.6 | 98.1 | 95.3 | 94.7 |
| 55° | 3880.2 | 2953.6 | 818.1 | 235.6 | 133.9 | 108.5 | 102.2 | 97.0 | 92.9 | 90.1 | 89.5 |
| 57.5° | 3860.6 | 2755.6 | 637.9 | 189.4 | 120.1 | 101.0 | 96.4 | 92.9 | 88.3 | 83.7 | 83.1 |
| 60° | 3764.2 | 2490.6 | 480.9 | 157.6 | 107.4 | 92.9 | 90.1 | 87.2 | 80.8 | 73.9 | 72.7 |
| 62.5° | 3597.3 | 2157.5 | 342.9 | 130.5 | 93.5 | 83.7 | 82.6 | 80.2 | 71.0 | 58.3 | 57.2 |
| 65° | 3342.2 | 1752.8 | 230.9 | 108.5 | 80.2 | 73.3 | 73.9 | 69.9 | 57.7 | 43.3 | 42.1 |
| 67.5° | 2969.2 | 1281.7 | 147.8 | 88.9 | 67.0 | 61.2 | 61.8 | 59.5 | 49.1 | 36.9 | 35.2 |
| 70° | 2494.1 | 848.7 | 96.4 | 67.5 | 53.7 | 47.3 | 50.8 | 51.4 | 41.6 | 30.0 | 28.9 |
| 72.5° | 1828.4 | 501.1 | 67.5 | 50.2 | 39.3 | 32.9 | 41.6 | 42.7 | 33.5 | 22.5 | 21.4 |
| 75° | 1042.1 | 237.9 | 50.8 | 36.4 | 24.2 | 23.1 | 32.3 | 32.3 | 23.1 | 15.0 | 13.9 |
| 77.5° | 437.6 | 99.3 | 35.8 | 23.7 | 13.9 | 13.3 | 21.9 | 20.2 | 11.5 | 6.9 | 6.9 |
| 80° | 126.4 | 44.5 | 19.1 | 11.5 | 5.8 | 5.2 | 8.7 | 6.4 | 2.9 | 1.2 | 1.2 |
| 82.5° | 49.7 | 19.6 | 7.5 | 4.6 | 2.3 | 2.3 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 29.4 | 8.1 | 3.5 | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.5 | 1.7 | 1.2 | 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)