

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: P964231

Luminaire Tested: **NVN-SB3B-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15915.2 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

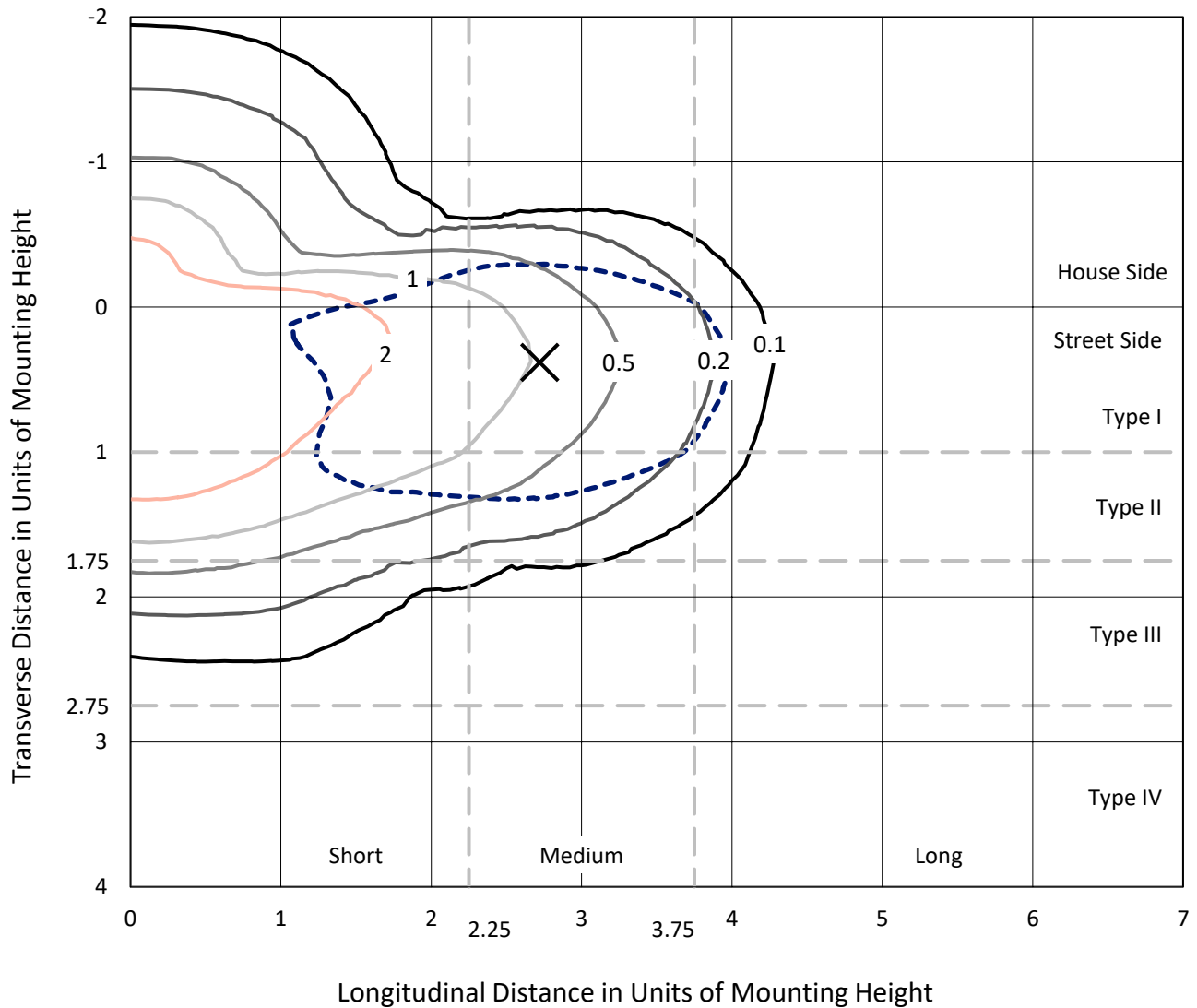
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964231
 CATALOG NUMBER: NVN-SB3B-835-U-T2

Iso-Footcandle Lines of Horizontal Illumination

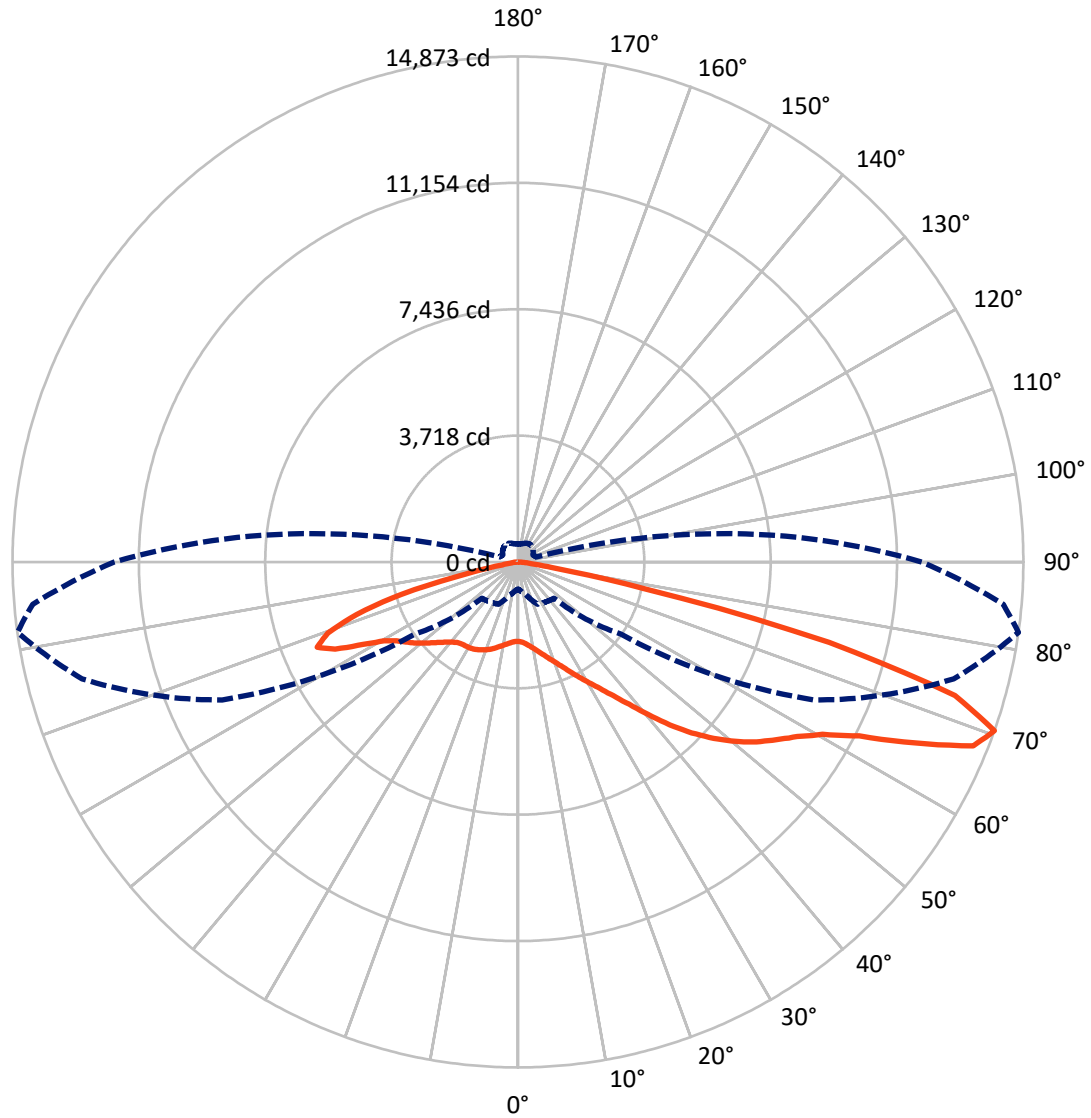
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P964231
CATALOG NUMBER: NVN-SB3B-835-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P964231
 CATALOG NUMBER: NVN-SB3B-835-U-T2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3923.5 | 0.0 | 3923.5 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 11991.7 | 0.0 | 11991.7 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 15915.2 | 0.0 | 15915.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 220.3 | 1.4 |
| 10°-20° | 633.0 | 4.0 |
| 20°-30° | 1058.9 | 6.7 |
| 30°-40° | 1654.3 | 10.4 |
| 40°-50° | 2634.6 | 16.6 |
| 50°-60° | 3666.4 | 23.0 |
| 60°-70° | 3835.2 | 24.1 |
| 70°-80° | 2004.5 | 12.6 |
| 80°-90° | 208.1 | 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° | 15915.2 | 100.0 |
| 0°-180° | 15915.2 | 100.0 |

Coefficient of Utilization



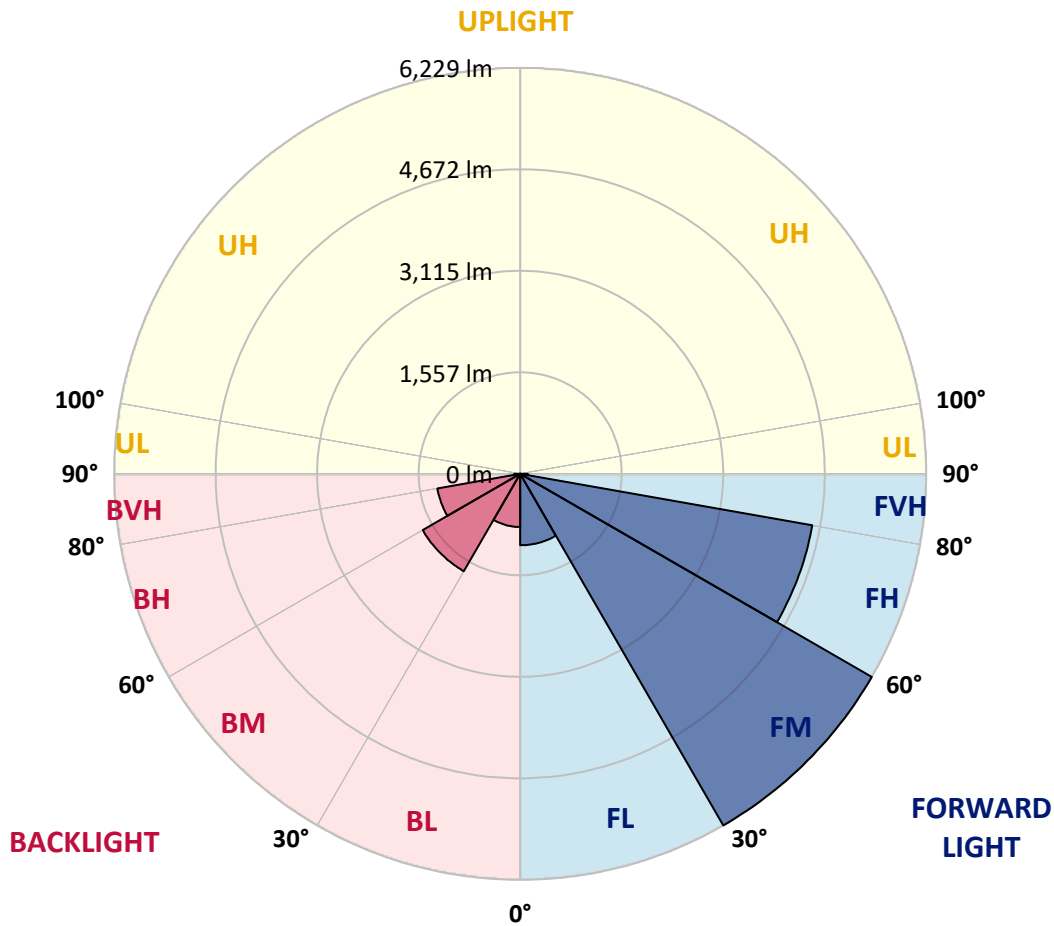
REPORT NUMBER: P964231
 CATALOG NUMBER: NVN-SB3B-835-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1095.9 | 6.9 | | | |
| FM (30°-60°) | 6229.0 | 39.1 | | | |
| FH (60°-80°) | 4550.2 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 116.5 | 0.7 | | | G2/225 |
| BL (0°-30°) | 816.2 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1726.2 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 1289.4 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 91.6 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P964231

CATALOG NUMBER: NVN-SB3B-835-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 |
| 2.5° | 2389.1 | 2402.6 | 2398.4 | 2394.2 | 2394.2 | 2388.2 | 2387.4 | 2378.9 | 2372.3 | 2361.2 | 2358.7 |
| 5° | 2419.5 | 2433.9 | 2432.1 | 2435.5 | 2446.6 | 2449.0 | 2451.6 | 2446.6 | 2433.0 | 2419.5 | 2413.6 |
| 7.5° | 2392.5 | 2408.5 | 2413.6 | 2433.9 | 2467.7 | 2498.0 | 2520.9 | 2530.1 | 2517.5 | 2498.0 | 2488.8 |
| 10° | 2301.2 | 2319.0 | 2336.7 | 2384.9 | 2444.8 | 2516.6 | 2577.5 | 2613.8 | 2611.2 | 2592.6 | 2576.5 |
| 12.5° | 2116.3 | 2134.9 | 2172.9 | 2266.7 | 2376.5 | 2503.2 | 2616.3 | 2692.3 | 2718.5 | 2705.0 | 2677.1 |
| 15° | 1968.5 | 1984.6 | 2013.3 | 2109.6 | 2252.3 | 2444.8 | 2630.7 | 2778.5 | 2845.1 | 2837.5 | 2803.8 |
| 17.5° | 1964.3 | 1971.1 | 1988.8 | 2034.4 | 2144.2 | 2353.6 | 2615.4 | 2862.8 | 2990.4 | 2989.5 | 2947.3 |
| 20° | 2038.6 | 2041.2 | 2051.3 | 2060.6 | 2123.1 | 2284.4 | 2576.5 | 2932.9 | 3153.4 | 3153.4 | 3107.8 |
| 22.5° | 2141.6 | 2140.0 | 2150.1 | 2141.6 | 2172.1 | 2278.5 | 2552.0 | 2994.6 | 3334.9 | 3348.5 | 3291.1 |
| 25° | 2296.2 | 2287.8 | 2285.2 | 2265.8 | 2271.7 | 2333.4 | 2579.1 | 3064.7 | 3550.3 | 3578.2 | 3506.4 |
| 27.5° | 2502.2 | 2488.8 | 2479.5 | 2434.7 | 2419.5 | 2446.6 | 2661.9 | 3149.1 | 3790.1 | 3838.3 | 3747.1 |
| 30° | 2770.8 | 2746.3 | 2732.9 | 2655.2 | 2600.2 | 2604.4 | 2786.9 | 3261.4 | 4041.0 | 4118.7 | 4002.9 |
| 32.5° | 3137.3 | 3099.3 | 3063.0 | 2935.5 | 2835.0 | 2802.0 | 2948.2 | 3416.8 | 4312.9 | 4437.0 | 4288.4 |
| 35° | 3547.7 | 3517.4 | 3478.5 | 3281.7 | 3127.2 | 3051.2 | 3166.0 | 3633.9 | 4631.3 | 4828.1 | 4634.6 |
| 37.5° | 3943.0 | 3916.8 | 3935.4 | 3670.2 | 3471.0 | 3360.3 | 3451.5 | 3925.2 | 5023.9 | 5314.4 | 5068.7 |
| 40° | 4351.7 | 4331.4 | 4334.0 | 4080.6 | 3848.4 | 3724.2 | 3797.7 | 4291.0 | 5474.1 | 5892.9 | 5590.7 |
| 42.5° | 4796.0 | 4780.7 | 4730.1 | 4505.4 | 4244.5 | 4128.8 | 4196.3 | 4713.2 | 5957.1 | 6551.7 | 6163.2 |
| 45° | 5293.3 | 5284.1 | 5236.7 | 4979.1 | 4680.3 | 4550.2 | 4641.4 | 5179.3 | 6442.7 | 7171.5 | 6738.2 |
| 47.5° | 5723.2 | 5730.8 | 5724.9 | 5507.8 | 5197.9 | 5007.0 | 5116.0 | 5665.8 | 6894.6 | 7754.2 | 7289.8 |
| 50° | 5930.1 | 5969.8 | 6028.0 | 5960.5 | 5768.0 | 5573.7 | 5594.9 | 6135.3 | 7325.3 | 8300.7 | 7818.4 |
| 52.5° | 5822.0 | 5897.1 | 6055.9 | 6164.0 | 6238.4 | 6197.8 | 6141.2 | 6601.5 | 7730.6 | 8793.8 | 8318.4 |
| 55° | 5419.2 | 5524.7 | 5788.3 | 6049.1 | 6428.4 | 6723.1 | 6797.4 | 7118.3 | 8125.8 | 9227.9 | 8791.3 |
| 57.5° | 4685.3 | 4856.8 | 5093.2 | 5621.0 | 6259.5 | 6977.3 | 7562.6 | 7835.3 | 8544.7 | 9691.5 | 9286.2 |
| 60° | 3427.0 | 3656.7 | 3950.6 | 4736.0 | 5668.4 | 6841.4 | 8213.6 | 8936.6 | 9140.0 | 10291.9 | 9930.5 |
| 62.5° | 2193.2 | 2335.1 | 2605.3 | 3345.1 | 4416.7 | 6144.6 | 8413.0 | 10313.0 | 10149.2 | 11276.6 | 10896.7 |
| 65° | 1501.5 | 1592.7 | 1840.2 | 2255.7 | 2855.2 | 4573.9 | 7879.2 | 11345.1 | 11752.1 | 12837.3 | 12548.5 |
| 67.5° | 1091.1 | 1160.3 | 1371.4 | 1735.4 | 1860.5 | 2706.6 | 6114.2 | 11297.8 | 13310.2 | 14445.2 | 13996.0 |
| 70° | 795.5 | 844.5 | 1021.8 | 1371.4 | 1431.4 | 1505.7 | 3704.0 | 9603.7 | 13276.4 | 14872.5 | 14334.6 |
| 72.5° | 589.5 | 623.2 | 742.3 | 1064.1 | 1158.7 | 1016.8 | 1833.4 | 6979.8 | 11408.4 | 13452.1 | 13020.6 |
| 75° | 426.5 | 451.8 | 539.7 | 814.1 | 927.2 | 774.4 | 914.6 | 4079.0 | 7957.8 | 9462.7 | 9538.6 |
| 77.5° | 326.0 | 345.4 | 402.8 | 596.2 | 742.3 | 581.0 | 567.5 | 1876.5 | 3773.2 | 3791.8 | 4004.7 |
| 80° | 261.8 | 274.5 | 305.8 | 419.7 | 569.2 | 434.9 | 369.9 | 757.5 | 1192.5 | 1009.2 | 1059.0 |
| 82.5° | 192.6 | 213.6 | 258.4 | 294.7 | 407.0 | 299.8 | 225.5 | 382.5 | 453.5 | 390.1 | 393.5 |
| 85° | 109.8 | 124.1 | 156.2 | 211.2 | 260.1 | 183.3 | 129.3 | 169.7 | 211.2 | 173.1 | 154.6 |
| 87.5° | 38.8 | 50.6 | 54.9 | 82.7 | 113.2 | 76.1 | 49.8 | 49.0 | 69.3 | 51.6 | 43.0 |
| 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: P964231
 CATALOG NUMBER: NVN-SB3B-835-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 |
| 2.5° | 2350.2 | 2346.0 | 2329.1 | 2306.4 | 2282.7 | 2259.9 | 2252.3 | 2236.2 | 2225.3 | 2219.3 | 2226.1 |
| 5° | 2397.6 | 2384.0 | 2344.4 | 2293.6 | 2240.4 | 2183.0 | 2142.5 | 2105.4 | 2078.3 | 2053.0 | 2063.1 |
| 7.5° | 2465.1 | 2441.4 | 2373.1 | 2284.4 | 2189.8 | 2094.4 | 2023.5 | 1969.3 | 1933.0 | 1909.5 | 1914.5 |
| 10° | 2543.6 | 2507.4 | 2402.6 | 2270.1 | 2123.9 | 1987.2 | 1903.5 | 1857.1 | 1834.2 | 1821.6 | 1825.0 |
| 12.5° | 2634.0 | 2582.5 | 2433.0 | 2237.1 | 2023.5 | 1867.2 | 1809.7 | 1796.2 | 1797.1 | 1798.0 | 1799.6 |
| 15° | 2745.5 | 2673.7 | 2457.5 | 2165.3 | 1892.6 | 1775.2 | 1765.0 | 1787.0 | 1809.7 | 1820.7 | 1819.9 |
| 17.5° | 2871.3 | 2770.0 | 2461.7 | 2047.0 | 1764.1 | 1716.1 | 1748.1 | 1795.4 | 1830.0 | 1845.2 | 1848.6 |
| 20° | 3006.4 | 2868.0 | 2431.3 | 1879.8 | 1658.7 | 1667.9 | 1725.3 | 1786.2 | 1824.1 | 1843.6 | 1848.6 |
| 22.5° | 3161.0 | 2972.6 | 2358.7 | 1704.2 | 1572.5 | 1615.5 | 1683.0 | 1742.2 | 1781.9 | 1801.3 | 1806.4 |
| 25° | 3337.5 | 3090.1 | 2244.6 | 1556.5 | 1498.1 | 1556.5 | 1624.0 | 1673.0 | 1705.1 | 1722.8 | 1727.8 |
| 27.5° | 3533.4 | 3212.5 | 2092.6 | 1439.0 | 1433.2 | 1495.6 | 1551.3 | 1589.4 | 1606.3 | 1619.8 | 1624.8 |
| 30° | 3730.2 | 3324.0 | 1908.5 | 1350.3 | 1376.6 | 1435.6 | 1475.4 | 1492.2 | 1497.3 | 1499.9 | 1505.7 |
| 32.5° | 3943.0 | 3420.2 | 1715.2 | 1276.8 | 1322.5 | 1377.4 | 1401.1 | 1408.7 | 1385.0 | 1369.0 | 1374.0 |
| 35° | 4200.6 | 3523.2 | 1526.0 | 1218.6 | 1269.3 | 1316.6 | 1324.2 | 1317.4 | 1289.6 | 1256.6 | 1258.3 |
| 37.5° | 4518.9 | 3651.7 | 1374.8 | 1177.2 | 1219.4 | 1250.7 | 1241.4 | 1239.7 | 1242.3 | 1203.5 | 1205.9 |
| 40° | 4909.1 | 3818.8 | 1264.2 | 1145.1 | 1179.0 | 1185.7 | 1159.5 | 1173.8 | 1186.5 | 1127.4 | 1129.1 |
| 42.5° | 5342.3 | 4020.7 | 1194.1 | 1123.2 | 1145.1 | 1129.1 | 1088.6 | 1104.6 | 1102.9 | 1025.2 | 1024.4 |
| 45° | 5784.0 | 4240.2 | 1169.6 | 1107.1 | 1113.9 | 1081.8 | 1037.1 | 1041.3 | 1005.8 | 935.7 | 938.3 |
| 47.5° | 6223.2 | 4475.9 | 1184.8 | 1093.7 | 1075.0 | 1038.7 | 1004.1 | 985.5 | 933.2 | 880.8 | 880.8 |
| 50° | 6653.9 | 4723.3 | 1240.6 | 1066.6 | 1021.8 | 1000.7 | 975.4 | 942.5 | 886.7 | 841.9 | 838.6 |
| 52.5° | 7053.3 | 4972.5 | 1303.1 | 1021.8 | 955.1 | 967.8 | 951.7 | 913.8 | 858.8 | 813.2 | 814.1 |
| 55° | 7431.7 | 5221.6 | 1327.6 | 960.2 | 892.7 | 939.1 | 929.8 | 859.7 | 793.9 | 756.7 | 753.3 |
| 57.5° | 7843.7 | 5521.4 | 1300.5 | 881.7 | 841.9 | 906.2 | 870.6 | 792.9 | 755.0 | 727.1 | 724.6 |
| 60° | 8414.6 | 5991.7 | 1242.3 | 784.5 | 793.9 | 857.2 | 796.3 | 764.2 | 722.9 | 691.7 | 689.9 |
| 62.5° | 9363.0 | 6869.2 | 1148.5 | 688.3 | 737.3 | 784.5 | 760.9 | 728.8 | 686.5 | 656.2 | 656.2 |
| 65° | 10764.9 | 8088.7 | 972.0 | 613.2 | 673.9 | 713.6 | 722.9 | 690.8 | 646.9 | 614.8 | 616.5 |
| 67.5° | 11947.2 | 8853.7 | 735.5 | 550.6 | 608.8 | 656.2 | 682.3 | 651.1 | 604.6 | 573.4 | 574.3 |
| 70° | 11882.2 | 8298.1 | 561.6 | 488.9 | 551.4 | 599.6 | 633.3 | 608.8 | 559.0 | 529.5 | 532.1 |
| 72.5° | 10553.8 | 6941.8 | 454.4 | 426.5 | 493.2 | 540.5 | 581.0 | 562.4 | 511.8 | 483.1 | 483.1 |
| 75° | 7753.4 | 4927.7 | 363.2 | 363.2 | 420.6 | 478.9 | 523.6 | 511.8 | 465.4 | 445.1 | 439.1 |
| 77.5° | 3268.2 | 2067.3 | 284.6 | 301.5 | 349.6 | 411.2 | 467.0 | 471.2 | 430.7 | 456.0 | 413.8 |
| 80° | 869.0 | 570.0 | 217.0 | 237.3 | 274.5 | 339.5 | 406.2 | 404.6 | 360.6 | 336.9 | 313.3 |
| 82.5° | 331.1 | 224.7 | 154.6 | 167.2 | 198.4 | 260.1 | 321.7 | 331.9 | 288.0 | 249.2 | 249.2 |
| 85° | 127.5 | 96.2 | 95.4 | 100.4 | 115.7 | 172.3 | 243.2 | 251.6 | 217.0 | 184.1 | 190.0 |
| 87.5° | 32.9 | 28.7 | 35.5 | 33.8 | 53.2 | 92.0 | 139.3 | 144.4 | 132.6 | 76.9 | 109.8 |
| 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)