

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: P883121

Luminaire Tested: **NVN-SB3B-760-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-760-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17998 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

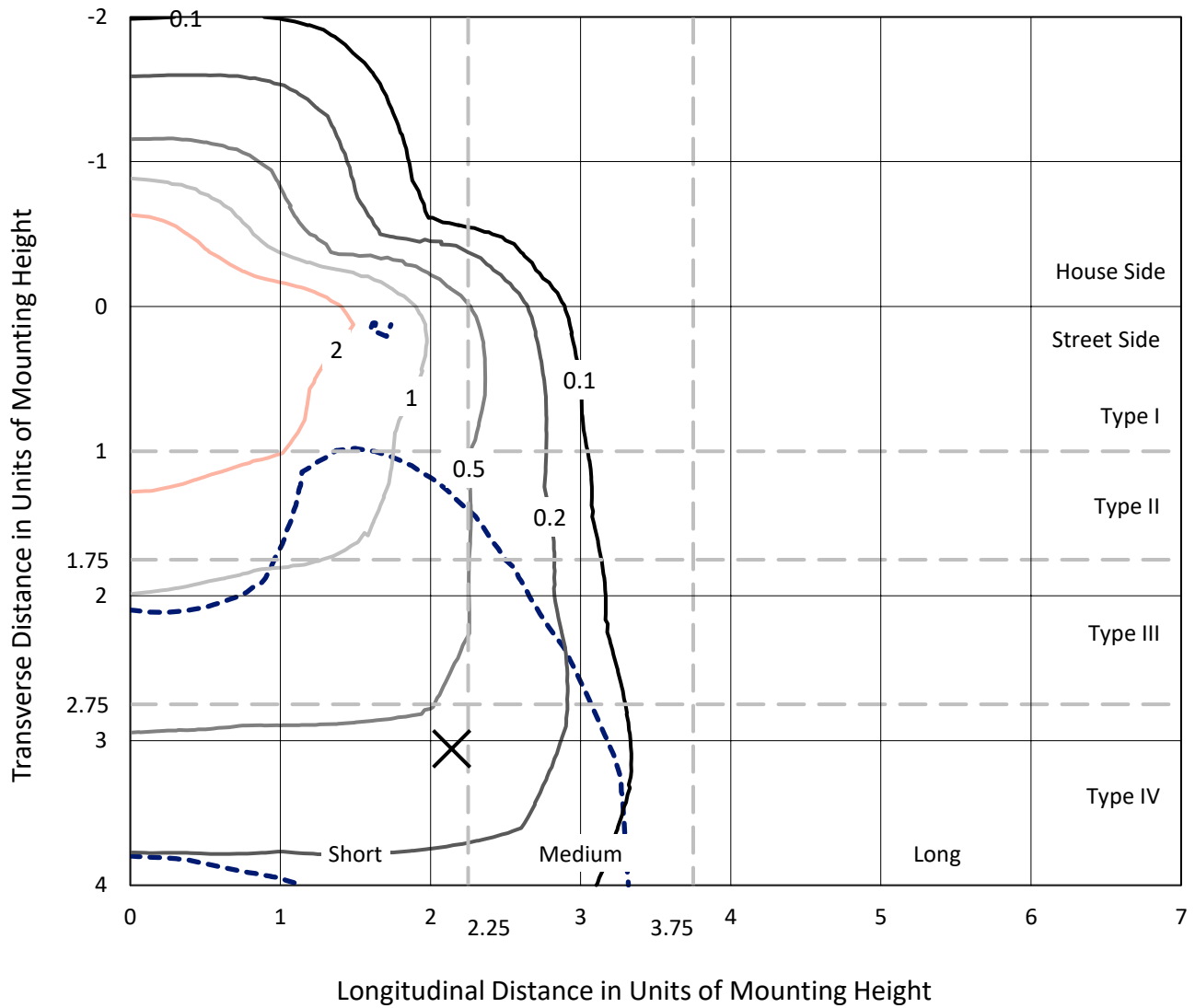
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

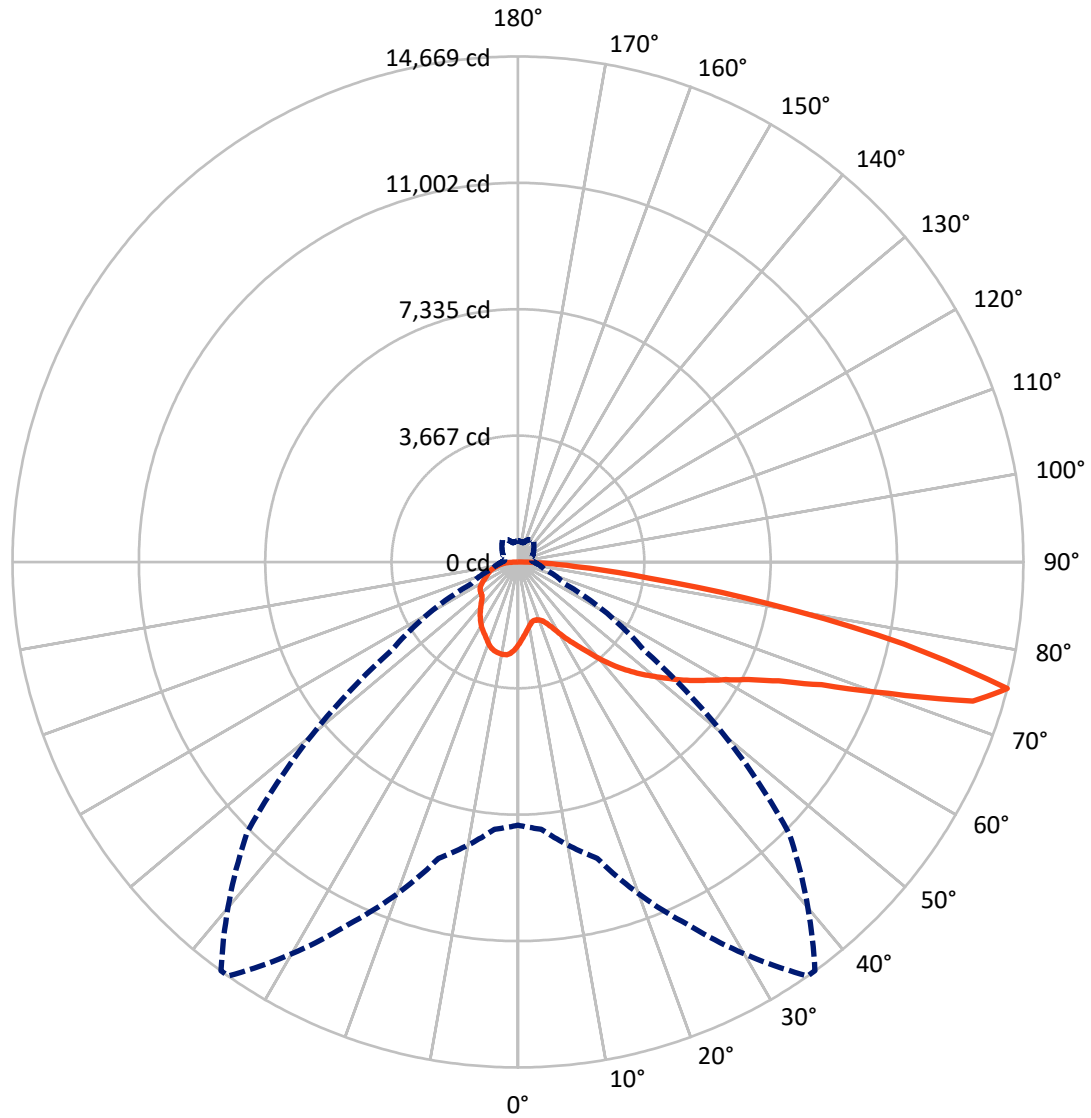
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4283.1 | 0.0 | 4283.1 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 13714.9 | 0.0 | 13714.9 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 17998.0 | 0.0 | 17998.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 227.1 | 1.3 |
| 10°-20° | 655.0 | 3.6 |
| 20°-30° | 1099.9 | 6.1 |
| 30°-40° | 1709.4 | 9.5 |
| 40°-50° | 2537.2 | 14.1 |
| 50°-60° | 3502.7 | 19.5 |
| 60°-70° | 4249.6 | 23.6 |
| 70°-80° | 3512.0 | 19.5 |
| 80°-90° | 505.1 | 2.8 |
| 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° | 17998.0 | 100.0 |
| 0°-180° | 17998.0 | 100.0 |

Coefficient of Utilization



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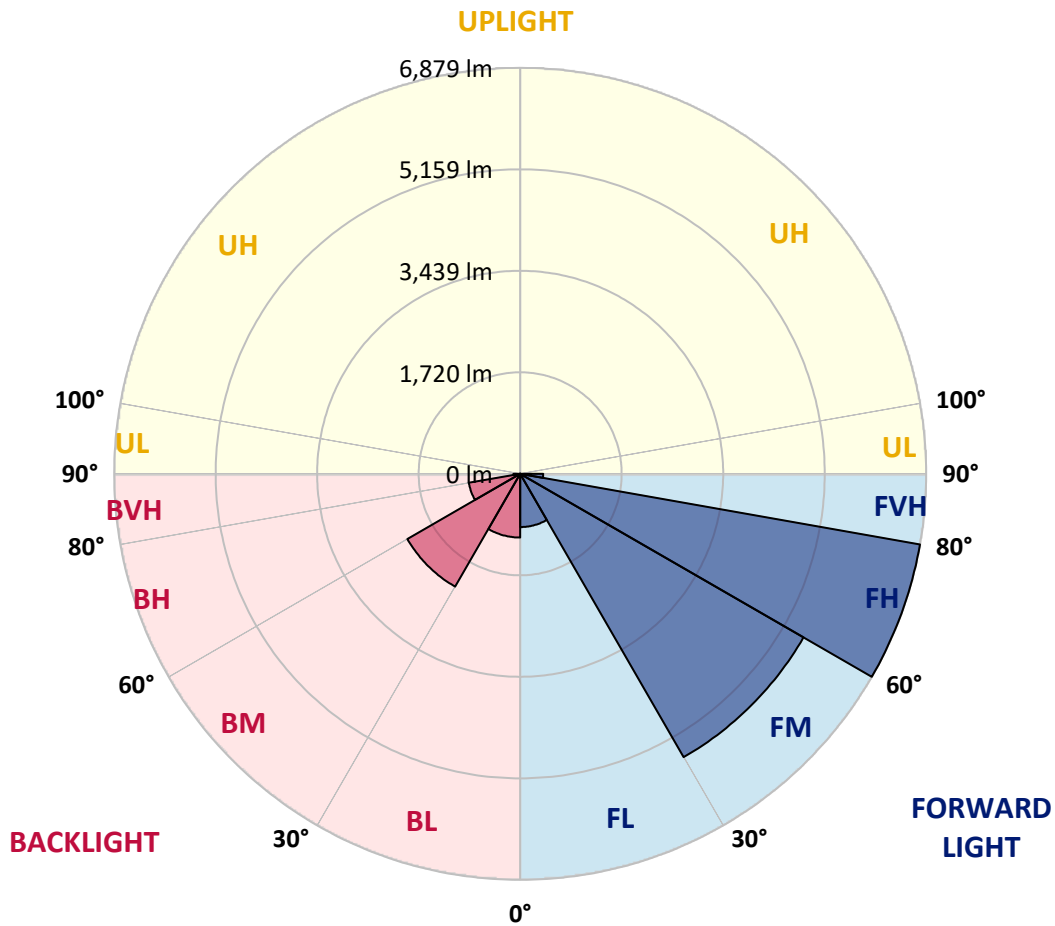
CATALOG NUMBER: NVN-SB3B-760-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 902.6 | 5.0 | | | |
| FM (30°-60°) | 5542.4 | 30.8 | | | |
| FH (60°-80°) | 6878.6 | 38.2 | | | G3/7500 |
| FVH (80°-90°) | 391.4 | 2.2 | | | G3/500 |
| BL (0°-30°) | 1079.4 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2206.9 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 883.0 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 113.7 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 |
| 2.5° | 2211.5 | 2225.2 | 2231.0 | 2228.1 | 2242.7 | 2240.7 | 2261.2 | 2286.5 | 2321.5 | 2355.5 | 2405.2 |
| 5° | 2041.3 | 2055.9 | 2068.5 | 2080.2 | 2108.4 | 2117.2 | 2149.3 | 2197.9 | 2262.1 | 2327.3 | 2409.1 |
| 7.5° | 1882.7 | 1895.3 | 1914.8 | 1936.2 | 1983.9 | 1992.6 | 2046.1 | 2122.0 | 2211.5 | 2306.9 | 2419.8 |
| 10° | 1753.3 | 1765.9 | 1786.4 | 1810.7 | 1870.0 | 1880.7 | 1948.8 | 2050.0 | 2166.8 | 2287.4 | 2431.4 |
| 12.5° | 1697.8 | 1701.7 | 1713.4 | 1737.7 | 1789.3 | 1796.1 | 1871.0 | 1986.8 | 2123.0 | 2272.8 | 2448.9 |
| 15° | 1694.9 | 1702.7 | 1703.7 | 1716.3 | 1759.1 | 1762.0 | 1831.1 | 1945.9 | 2095.8 | 2269.9 | 2475.2 |
| 17.5° | 1724.1 | 1729.9 | 1721.2 | 1729.0 | 1765.0 | 1769.8 | 1824.3 | 1926.5 | 2087.0 | 2282.6 | 2520.0 |
| 20° | 1801.9 | 1806.8 | 1780.5 | 1769.8 | 1796.1 | 1800.0 | 1853.5 | 1939.1 | 2095.8 | 2308.8 | 2581.3 |
| 22.5° | 1967.3 | 1970.3 | 1906.0 | 1862.3 | 1864.2 | 1866.1 | 1912.8 | 1990.7 | 2129.8 | 2356.5 | 2659.1 |
| 25° | 2225.2 | 2223.2 | 2121.1 | 2036.4 | 1987.8 | 1977.1 | 2008.2 | 2074.4 | 2187.2 | 2419.8 | 2759.3 |
| 27.5° | 2526.8 | 2512.2 | 2410.0 | 2283.5 | 2177.5 | 2161.9 | 2155.1 | 2183.3 | 2269.0 | 2503.4 | 2881.9 |
| 30° | 2867.3 | 2853.7 | 2743.8 | 2578.4 | 2431.4 | 2406.1 | 2341.9 | 2327.3 | 2390.6 | 2617.3 | 3052.2 |
| 32.5° | 3240.9 | 3232.2 | 3100.8 | 2900.4 | 2703.9 | 2674.7 | 2566.7 | 2527.8 | 2577.4 | 2789.5 | 3289.6 |
| 35° | 3554.2 | 3546.5 | 3437.5 | 3231.2 | 2990.9 | 2954.9 | 2844.9 | 2801.2 | 2826.5 | 3010.3 | 3600.0 |
| 37.5° | 3837.4 | 3833.5 | 3740.1 | 3577.6 | 3329.5 | 3285.7 | 3162.1 | 3147.5 | 3142.7 | 3301.3 | 3976.5 |
| 40° | 4100.1 | 4090.3 | 3993.0 | 3907.4 | 3723.5 | 3683.6 | 3574.7 | 3562.0 | 3525.0 | 3659.3 | 4402.7 |
| 42.5° | 4391.0 | 4365.7 | 4224.6 | 4184.7 | 4135.1 | 4102.0 | 4036.8 | 4038.8 | 3957.0 | 4063.1 | 4854.1 |
| 45° | 4628.4 | 4613.8 | 4468.8 | 4445.5 | 4499.0 | 4485.4 | 4541.8 | 4556.4 | 4397.8 | 4486.3 | 5323.1 |
| 47.5° | 4883.3 | 4869.7 | 4747.1 | 4730.5 | 4875.5 | 4879.4 | 5078.9 | 5083.7 | 4827.8 | 4926.1 | 5793.0 |
| 50° | 5197.6 | 5178.1 | 5056.5 | 5076.9 | 5239.4 | 5254.0 | 5618.9 | 5585.8 | 5223.8 | 5372.7 | 6259.1 |
| 52.5° | 5404.8 | 5416.5 | 5390.2 | 5423.3 | 5645.1 | 5658.8 | 6150.1 | 6065.5 | 5615.9 | 5813.5 | 6716.4 |
| 55° | 5557.6 | 5580.9 | 5662.6 | 5738.5 | 6073.2 | 6086.9 | 6651.2 | 6521.8 | 5940.9 | 6222.1 | 7146.4 |
| 57.5° | 5754.1 | 5721.0 | 5873.8 | 6021.7 | 6479.9 | 6515.9 | 7138.6 | 6961.6 | 6228.9 | 6574.3 | 7441.2 |
| 60° | 6036.3 | 6012.9 | 6131.6 | 6350.5 | 6935.3 | 6992.7 | 7654.3 | 7357.6 | 6440.0 | 6853.6 | 7498.6 |
| 62.5° | 6608.4 | 6550.0 | 6568.5 | 6762.1 | 7509.3 | 7585.2 | 8236.1 | 7703.0 | 6545.1 | 6962.5 | 7191.2 |
| 65° | 7463.6 | 7363.4 | 7270.0 | 7404.3 | 8317.9 | 8392.8 | 8892.9 | 7974.4 | 6506.2 | 6751.4 | 6374.9 |
| 67.5° | 8540.7 | 8441.4 | 8326.6 | 8453.1 | 9508.8 | 9568.1 | 9703.4 | 8127.2 | 6199.7 | 5938.0 | 4932.0 |
| 70° | 9429.0 | 9392.0 | 9529.2 | 10049.7 | 11410.9 | 11412.9 | 10742.5 | 8000.7 | 5360.1 | 4210.0 | 2853.7 |
| 72.5° | 9311.3 | 9288.9 | 10011.8 | 11621.1 | 13808.3 | 13756.7 | 11726.2 | 7043.3 | 3610.7 | 1899.2 | 1069.3 |
| 75° | 7638.7 | 7783.7 | 8903.6 | 11592.9 | 14669.4 | 14662.6 | 11123.9 | 4477.6 | 1493.5 | 787.1 | 552.6 |
| 77.5° | 4096.2 | 4325.8 | 5780.4 | 8559.2 | 11451.8 | 11624.0 | 7820.7 | 1566.5 | 641.2 | 504.0 | 382.4 |
| 80° | 1335.9 | 1536.3 | 2304.0 | 4357.9 | 7441.2 | 7409.1 | 3351.9 | 614.9 | 438.8 | 357.1 | 264.6 |
| 82.5° | 567.2 | 590.6 | 1029.4 | 2057.8 | 3818.9 | 3759.5 | 1067.3 | 353.2 | 308.4 | 244.2 | 163.5 |
| 85° | 221.8 | 248.1 | 454.4 | 951.6 | 1654.0 | 1618.0 | 385.3 | 175.1 | 197.5 | 159.6 | 97.3 |
| 87.5° | 73.0 | 88.5 | 162.5 | 325.9 | 514.7 | 496.2 | 94.4 | 60.3 | 85.6 | 73.0 | 35.0 |
| 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° | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 | 2398.4 |
| 2.5° | 2418.8 | 2434.4 | 2452.8 | 2480.1 | 2503.4 | 2522.9 | 2543.3 | 2556.0 | 2560.8 | 2575.4 | 2574.5 |
| 5° | 2436.3 | 2470.4 | 2516.1 | 2560.8 | 2604.6 | 2630.9 | 2654.2 | 2665.9 | 2676.6 | 2684.4 | 2686.4 |
| 7.5° | 2465.5 | 2509.3 | 2581.3 | 2639.7 | 2676.6 | 2698.0 | 2713.6 | 2709.7 | 2713.6 | 2715.5 | 2718.5 |
| 10° | 2490.8 | 2552.1 | 2637.7 | 2693.2 | 2721.4 | 2722.4 | 2718.5 | 2704.8 | 2698.0 | 2699.0 | 2700.9 |
| 12.5° | 2520.9 | 2589.1 | 2681.5 | 2728.2 | 2736.0 | 2714.6 | 2698.0 | 2674.7 | 2665.9 | 2662.0 | 2660.1 |
| 15° | 2561.8 | 2639.7 | 2729.2 | 2746.7 | 2727.2 | 2700.0 | 2671.8 | 2633.8 | 2614.4 | 2598.8 | 2603.7 |
| 17.5° | 2611.4 | 2697.1 | 2766.1 | 2753.5 | 2711.6 | 2666.9 | 2621.2 | 2563.8 | 2523.9 | 2507.3 | 2508.3 |
| 20° | 2680.5 | 2757.4 | 2794.4 | 2738.9 | 2675.6 | 2607.5 | 2529.7 | 2459.7 | 2422.7 | 2406.1 | 2404.2 |
| 22.5° | 2764.2 | 2838.1 | 2821.6 | 2713.6 | 2624.1 | 2515.1 | 2417.8 | 2366.2 | 2347.8 | 2336.1 | 2338.0 |
| 25° | 2864.4 | 2927.6 | 2841.1 | 2676.6 | 2539.4 | 2392.5 | 2317.6 | 2301.1 | 2292.3 | 2283.5 | 2283.5 |
| 27.5° | 2994.8 | 3028.8 | 2855.6 | 2622.1 | 2407.1 | 2262.1 | 2234.9 | 2237.8 | 2234.9 | 2220.3 | 2223.2 |
| 30° | 3167.0 | 3160.2 | 2869.3 | 2533.6 | 2255.3 | 2144.4 | 2146.4 | 2159.0 | 2161.0 | 2151.2 | 2156.1 |
| 32.5° | 3393.7 | 3324.6 | 2876.1 | 2418.8 | 2110.4 | 2041.3 | 2043.2 | 2056.8 | 2066.6 | 2050.0 | 2057.8 |
| 35° | 3668.1 | 3516.3 | 2865.4 | 2274.8 | 1998.5 | 1943.0 | 1928.4 | 1932.3 | 1935.2 | 1919.7 | 1930.4 |
| 37.5° | 3988.2 | 3731.3 | 2817.7 | 2115.2 | 1906.0 | 1846.7 | 1815.6 | 1789.3 | 1773.7 | 1759.1 | 1768.8 |
| 40° | 4339.4 | 3965.8 | 2730.1 | 1959.5 | 1802.9 | 1744.5 | 1697.8 | 1648.2 | 1595.7 | 1576.2 | 1585.0 |
| 42.5° | 4707.2 | 4207.1 | 2624.1 | 1810.7 | 1684.2 | 1636.5 | 1586.9 | 1514.9 | 1436.1 | 1396.2 | 1401.1 |
| 45° | 5088.6 | 4454.2 | 2520.0 | 1663.8 | 1562.6 | 1542.1 | 1484.7 | 1398.1 | 1312.5 | 1261.9 | 1258.0 |
| 47.5° | 5462.2 | 4687.7 | 2367.2 | 1515.9 | 1448.7 | 1471.1 | 1426.4 | 1346.6 | 1251.2 | 1171.4 | 1162.7 |
| 50° | 5819.3 | 4906.7 | 2117.2 | 1366.0 | 1356.3 | 1449.7 | 1406.9 | 1292.1 | 1183.1 | 1081.0 | 1072.2 |
| 52.5° | 6173.5 | 5083.7 | 1797.1 | 1229.8 | 1306.7 | 1443.9 | 1381.6 | 1255.1 | 1121.8 | 1014.8 | 1003.1 |
| 55° | 6474.1 | 5175.2 | 1488.6 | 1113.1 | 1234.7 | 1394.3 | 1351.4 | 1211.3 | 1035.2 | 921.4 | 911.7 |
| 57.5° | 6645.3 | 5101.2 | 1231.8 | 998.3 | 1135.4 | 1312.5 | 1299.9 | 1117.9 | 932.1 | 844.5 | 832.9 |
| 60° | 6571.4 | 4801.6 | 1021.6 | 898.0 | 1041.1 | 1224.0 | 1210.4 | 1025.5 | 853.3 | 770.6 | 758.9 |
| 62.5° | 6163.7 | 4230.4 | 855.2 | 810.5 | 955.5 | 1133.5 | 1120.9 | 954.5 | 793.0 | 713.2 | 700.5 |
| 65° | 5342.5 | 3441.4 | 725.8 | 737.5 | 868.9 | 1024.5 | 1043.0 | 895.1 | 745.3 | 667.5 | 654.8 |
| 67.5° | 4074.8 | 2492.7 | 624.6 | 674.3 | 784.2 | 917.5 | 971.0 | 852.3 | 705.4 | 631.5 | 619.8 |
| 70° | 2322.5 | 1415.7 | 539.0 | 613.0 | 709.3 | 818.3 | 915.6 | 818.3 | 662.6 | 601.3 | 593.5 |
| 72.5° | 880.5 | 649.9 | 466.0 | 551.7 | 637.3 | 734.6 | 854.3 | 764.7 | 613.0 | 567.2 | 559.5 |
| 75° | 469.9 | 396.0 | 392.1 | 479.7 | 554.6 | 652.9 | 777.4 | 712.2 | 576.0 | 599.3 | 618.8 |
| 77.5° | 320.1 | 280.2 | 327.9 | 410.6 | 464.1 | 562.4 | 695.7 | 632.4 | 499.1 | 497.2 | 458.3 |
| 80° | 221.8 | 198.5 | 266.6 | 330.8 | 359.0 | 472.9 | 607.1 | 542.9 | 406.7 | 379.5 | 362.9 |
| 82.5° | 133.3 | 129.4 | 199.5 | 247.1 | 253.9 | 364.9 | 503.0 | 455.3 | 332.8 | 289.9 | 291.9 |
| 85° | 73.0 | 76.9 | 127.5 | 145.0 | 147.9 | 254.9 | 394.1 | 352.2 | 255.9 | 215.0 | 217.0 |
| 87.5° | 20.4 | 26.3 | 46.7 | 57.4 | 71.0 | 132.3 | 234.5 | 209.2 | 128.4 | 89.5 | 89.5 |
| 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)