

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: P883737

Luminaire Tested: **NVN-SB4B-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4B-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18019 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

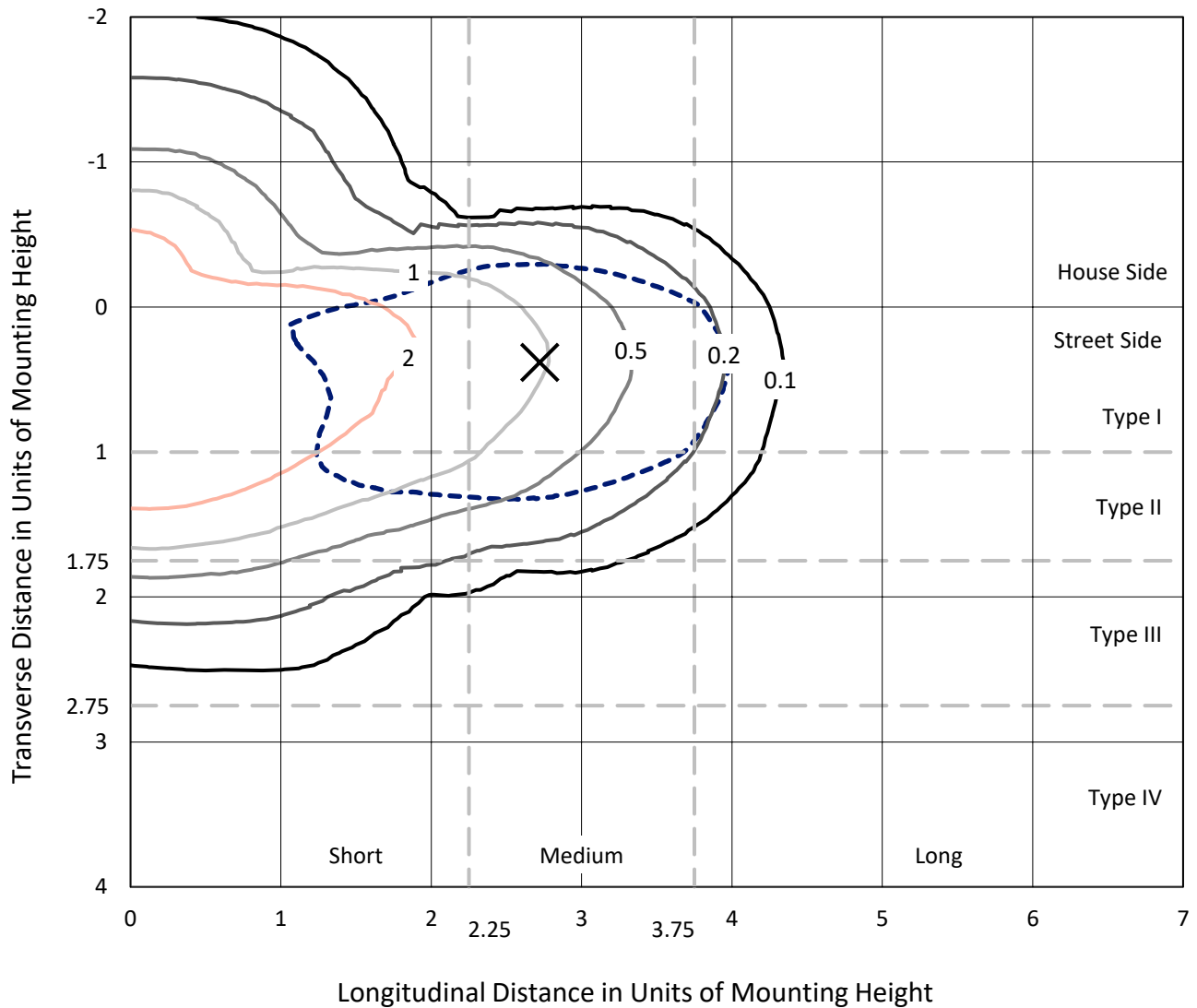
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

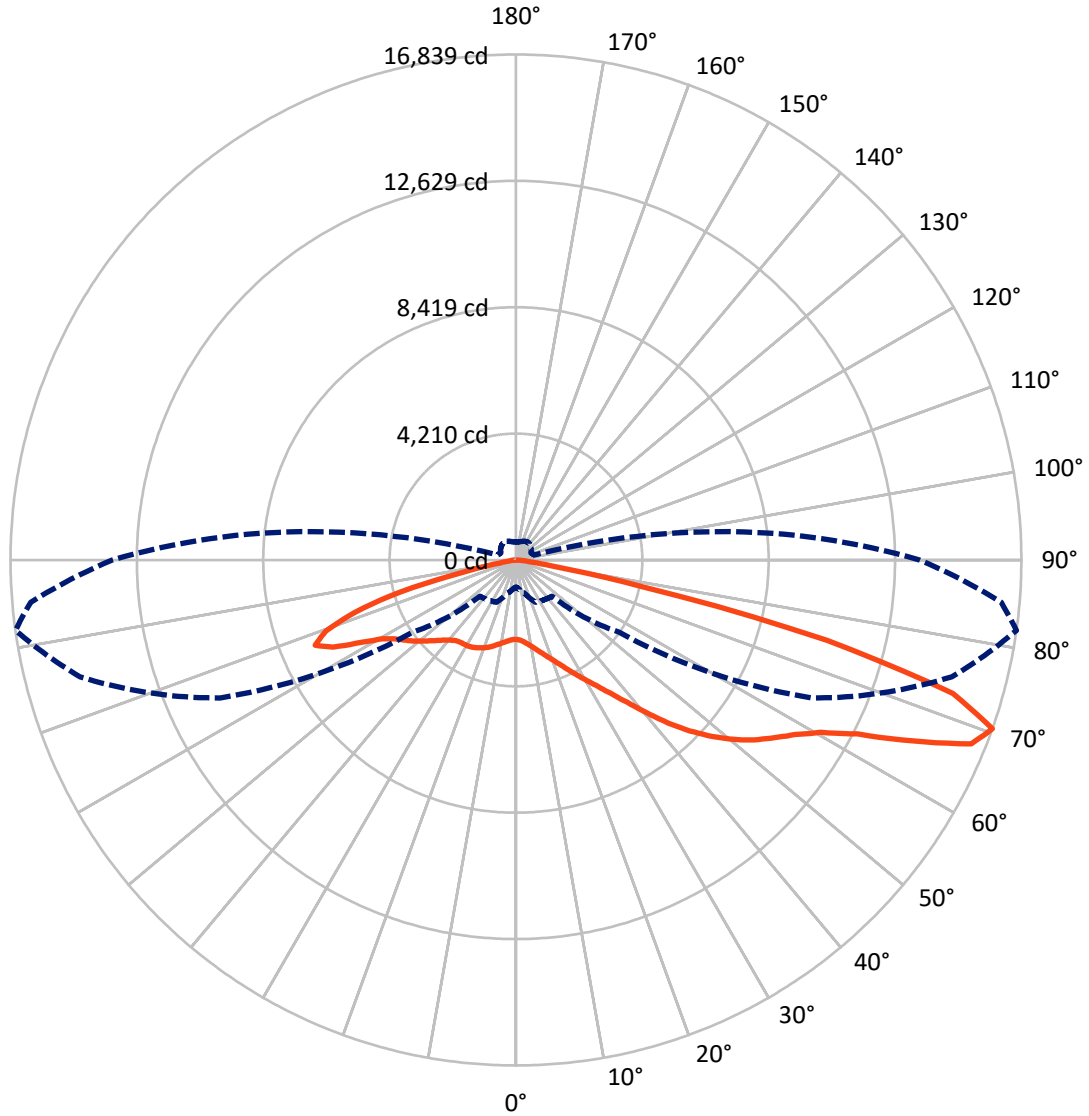
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4442.1 | 0.0 | 4442.1 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 13576.9 | 0.0 | 13576.9 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 18019.0 | 0.0 | 18019.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 249.4 | 1.4 |
| 10°-20° | 716.6 | 4.0 |
| 20°-30° | 1198.9 | 6.7 |
| 30°-40° | 1872.9 | 10.4 |
| 40°-50° | 2982.9 | 16.6 |
| 50°-60° | 4151.0 | 23.0 |
| 60°-70° | 4342.2 | 24.1 |
| 70°-80° | 2269.4 | 12.6 |
| 80°-90° | 235.7 | 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° | 18019.0 | 100.0 |
| 0°-180° | 18019.0 | 100.0 |

Coefficient of Utilization



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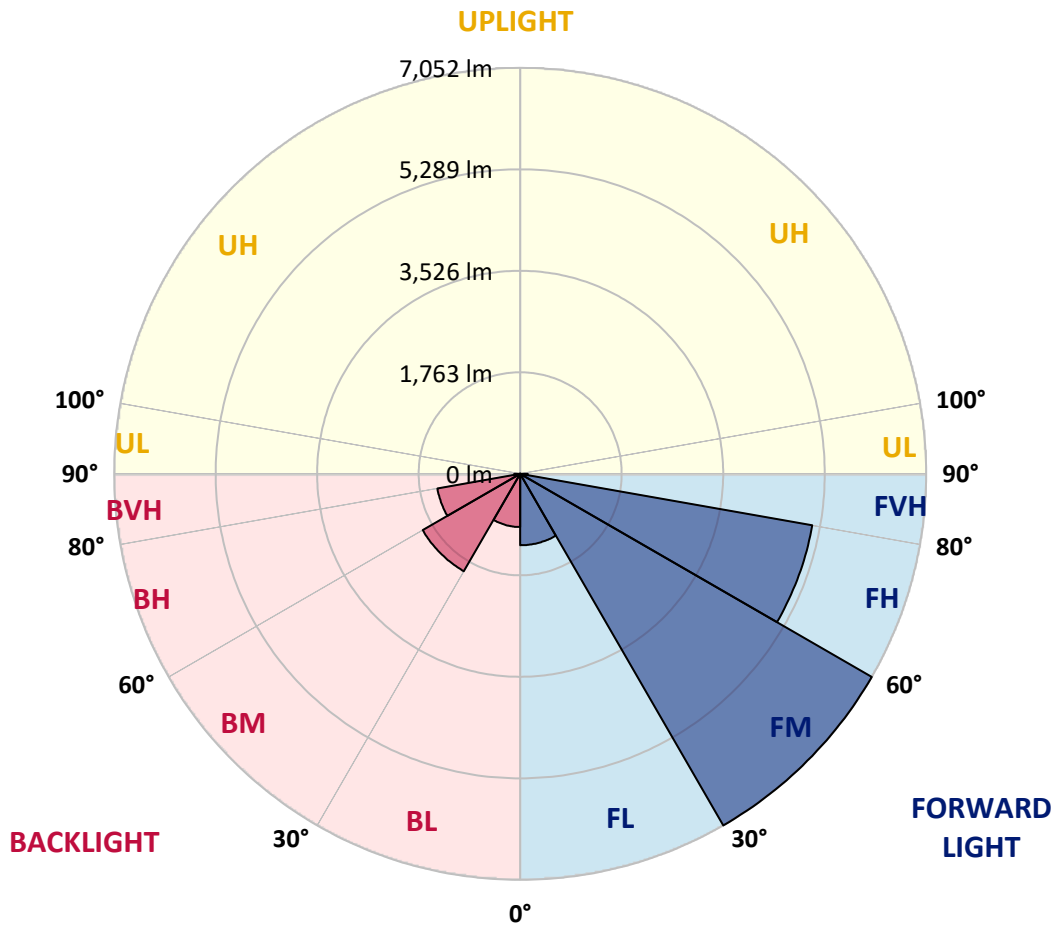
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1240.8 | 6.9 | | | |
| FM (30°-60°) | 7052.5 | 39.1 | | | |
| FH (60°-80°) | 5151.7 | 28.6 | | | G3/7500 |
| FVH (80°-90°) | 131.9 | 0.7 | | | G2/225 |
| BL (0°-30°) | 924.1 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1954.4 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 1459.9 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 103.7 | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 |
| 2.5° | 2704.9 | 2720.2 | 2715.4 | 2710.7 | 2710.7 | 2704.0 | 2703.0 | 2693.4 | 2685.8 | 2673.4 | 2670.5 |
| 5° | 2739.3 | 2755.6 | 2753.7 | 2757.5 | 2769.9 | 2772.8 | 2775.7 | 2769.9 | 2754.6 | 2739.3 | 2732.6 |
| 7.5° | 2708.7 | 2726.9 | 2732.6 | 2755.6 | 2793.8 | 2828.3 | 2854.1 | 2864.6 | 2850.2 | 2828.3 | 2817.7 |
| 10° | 2605.5 | 2625.6 | 2645.6 | 2700.1 | 2768.0 | 2849.3 | 2918.1 | 2959.2 | 2956.4 | 2935.3 | 2917.2 |
| 12.5° | 2396.1 | 2417.1 | 2460.1 | 2566.3 | 2690.6 | 2834.0 | 2962.1 | 3048.2 | 3077.8 | 3062.5 | 3031.0 |
| 15° | 2228.8 | 2246.9 | 2279.4 | 2388.4 | 2550.0 | 2768.0 | 2978.4 | 3145.7 | 3221.2 | 3212.6 | 3174.4 |
| 17.5° | 2224.0 | 2231.6 | 2251.7 | 2303.3 | 2427.6 | 2664.8 | 2961.2 | 3241.3 | 3385.7 | 3384.7 | 3336.9 |
| 20° | 2308.1 | 2311.0 | 2322.5 | 2333.0 | 2403.7 | 2586.4 | 2917.2 | 3320.7 | 3570.2 | 3570.2 | 3518.6 |
| 22.5° | 2424.8 | 2422.9 | 2434.3 | 2424.8 | 2459.2 | 2579.7 | 2889.5 | 3390.5 | 3775.8 | 3791.1 | 3726.1 |
| 25° | 2599.7 | 2590.2 | 2587.3 | 2565.3 | 2572.0 | 2641.8 | 2920.0 | 3469.8 | 4019.6 | 4051.2 | 3969.9 |
| 27.5° | 2833.0 | 2817.7 | 2807.2 | 2756.5 | 2739.3 | 2769.9 | 3013.7 | 3565.4 | 4291.1 | 4345.6 | 4242.4 |
| 30° | 3137.1 | 3109.4 | 3094.1 | 3006.1 | 2944.0 | 2948.7 | 3155.3 | 3692.6 | 4575.1 | 4663.1 | 4532.1 |
| 32.5° | 3552.1 | 3509.0 | 3467.9 | 3323.5 | 3209.8 | 3172.5 | 3337.9 | 3868.5 | 4883.0 | 5023.6 | 4855.3 |
| 35° | 4016.7 | 3982.3 | 3938.3 | 3715.6 | 3540.6 | 3454.5 | 3584.6 | 4114.3 | 5243.5 | 5466.2 | 5247.3 |
| 37.5° | 4464.2 | 4434.6 | 4455.6 | 4155.4 | 3929.7 | 3804.5 | 3907.7 | 4444.1 | 5688.1 | 6017.0 | 5738.7 |
| 40° | 4927.0 | 4904.0 | 4906.9 | 4620.1 | 4357.1 | 4216.6 | 4299.8 | 4858.1 | 6197.7 | 6671.9 | 6329.6 |
| 42.5° | 5429.9 | 5412.7 | 5355.3 | 5101.0 | 4805.6 | 4674.6 | 4751.1 | 5336.2 | 6744.6 | 7417.7 | 6977.9 |
| 45° | 5993.1 | 5982.6 | 5929.0 | 5637.4 | 5298.9 | 5151.7 | 5254.9 | 5864.0 | 7294.4 | 8119.5 | 7629.0 |
| 47.5° | 6479.8 | 6488.4 | 6481.7 | 6235.9 | 5885.0 | 5668.9 | 5792.3 | 6414.7 | 7805.9 | 8779.3 | 8253.4 |
| 50° | 6714.0 | 6758.9 | 6824.9 | 6748.4 | 6530.4 | 6310.5 | 6334.4 | 6946.3 | 8293.5 | 9397.9 | 8851.9 |
| 52.5° | 6591.6 | 6676.7 | 6856.5 | 6978.9 | 7063.0 | 7017.1 | 6953.0 | 7474.1 | 8752.5 | 9956.3 | 9418.0 |
| 55° | 6135.5 | 6255.1 | 6553.4 | 6848.8 | 7278.1 | 7611.8 | 7696.0 | 8059.3 | 9200.0 | 10447.7 | 9953.4 |
| 57.5° | 5304.7 | 5498.8 | 5766.5 | 6364.1 | 7086.9 | 7899.6 | 8562.2 | 8871.1 | 9674.2 | 10972.6 | 10513.7 |
| 60° | 3880.0 | 4140.1 | 4472.8 | 5362.0 | 6417.6 | 7745.7 | 9299.4 | 10117.9 | 10348.3 | 11652.5 | 11243.2 |
| 62.5° | 2483.1 | 2643.7 | 2949.7 | 3787.3 | 5000.6 | 6956.9 | 9525.1 | 11676.4 | 11490.9 | 12767.3 | 12337.1 |
| 65° | 1700.0 | 1803.3 | 2083.4 | 2553.8 | 3232.7 | 5178.4 | 8920.8 | 12844.8 | 13305.6 | 14534.3 | 14207.3 |
| 67.5° | 1235.3 | 1313.7 | 1552.8 | 1964.9 | 2106.4 | 3064.4 | 6922.4 | 12791.2 | 15069.7 | 16354.7 | 15846.1 |
| 70° | 900.7 | 956.1 | 1156.9 | 1552.8 | 1620.7 | 1704.8 | 4193.6 | 10873.2 | 15031.5 | 16838.6 | 16229.5 |
| 72.5° | 667.4 | 705.6 | 840.4 | 1204.7 | 1311.8 | 1151.2 | 2075.8 | 7902.5 | 12916.5 | 15230.3 | 14741.7 |
| 75° | 482.8 | 511.5 | 611.0 | 921.7 | 1049.8 | 876.8 | 1035.5 | 4618.1 | 9009.7 | 10713.5 | 10799.6 |
| 77.5° | 369.1 | 391.1 | 456.1 | 675.0 | 840.4 | 657.8 | 642.5 | 2124.5 | 4272.0 | 4293.1 | 4534.0 |
| 80° | 296.4 | 310.7 | 346.1 | 475.2 | 644.4 | 492.4 | 418.8 | 857.7 | 1350.1 | 1142.6 | 1199.0 |
| 82.5° | 218.0 | 241.9 | 292.6 | 333.7 | 460.9 | 339.4 | 255.3 | 433.1 | 513.4 | 441.7 | 445.6 |
| 85° | 124.3 | 140.6 | 176.9 | 239.0 | 294.5 | 207.5 | 146.3 | 192.2 | 239.0 | 196.0 | 175.0 |
| 87.5° | 44.0 | 57.4 | 62.1 | 93.7 | 128.1 | 86.1 | 56.4 | 55.5 | 78.4 | 58.3 | 48.8 |
| 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° | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 | 2641.8 |
| 2.5° | 2660.9 | 2656.2 | 2637.0 | 2611.2 | 2584.4 | 2558.6 | 2550.0 | 2531.9 | 2519.4 | 2512.7 | 2520.4 |
| 5° | 2714.5 | 2699.2 | 2654.2 | 2596.9 | 2536.6 | 2471.6 | 2425.7 | 2383.7 | 2353.1 | 2324.4 | 2335.8 |
| 7.5° | 2791.0 | 2764.2 | 2686.7 | 2586.4 | 2479.3 | 2371.2 | 2290.9 | 2229.7 | 2188.6 | 2161.8 | 2167.6 |
| 10° | 2879.9 | 2838.8 | 2720.2 | 2570.1 | 2404.7 | 2249.8 | 2155.1 | 2102.5 | 2076.7 | 2062.4 | 2066.2 |
| 12.5° | 2982.2 | 2923.9 | 2754.6 | 2532.8 | 2290.9 | 2114.0 | 2049.0 | 2033.7 | 2034.7 | 2035.6 | 2037.5 |
| 15° | 3108.4 | 3027.1 | 2782.4 | 2451.5 | 2142.7 | 2009.8 | 1998.3 | 2023.2 | 2049.0 | 2061.4 | 2060.5 |
| 17.5° | 3250.9 | 3136.1 | 2787.1 | 2317.7 | 1997.4 | 1942.9 | 1979.2 | 2032.8 | 2072.0 | 2089.2 | 2093.0 |
| 20° | 3403.9 | 3247.0 | 2752.7 | 2128.4 | 1877.9 | 1888.4 | 1953.4 | 2022.2 | 2065.3 | 2087.3 | 2093.0 |
| 22.5° | 3578.8 | 3365.6 | 2670.5 | 1929.5 | 1780.3 | 1829.1 | 1905.6 | 1972.5 | 2017.5 | 2039.4 | 2045.2 |
| 25° | 3778.7 | 3498.5 | 2541.4 | 1762.2 | 1696.2 | 1762.2 | 1838.7 | 1894.1 | 1930.4 | 1950.5 | 1956.3 |
| 27.5° | 4000.5 | 3637.2 | 2369.3 | 1629.3 | 1622.6 | 1693.3 | 1756.4 | 1799.5 | 1818.6 | 1833.9 | 1839.6 |
| 30° | 4223.3 | 3763.4 | 2160.9 | 1528.9 | 1558.5 | 1625.4 | 1670.4 | 1689.5 | 1695.2 | 1698.1 | 1704.8 |
| 32.5° | 4464.2 | 3872.4 | 1941.9 | 1445.7 | 1497.3 | 1559.5 | 1586.2 | 1594.8 | 1568.1 | 1549.9 | 1555.6 |
| 35° | 4755.8 | 3989.0 | 1727.7 | 1379.7 | 1437.1 | 1490.6 | 1499.2 | 1491.6 | 1460.0 | 1422.7 | 1424.6 |
| 37.5° | 5116.3 | 4134.3 | 1556.6 | 1332.9 | 1380.7 | 1416.0 | 1405.5 | 1403.6 | 1406.5 | 1362.5 | 1365.4 |
| 40° | 5558.0 | 4323.7 | 1431.3 | 1296.5 | 1334.8 | 1342.4 | 1312.8 | 1329.0 | 1343.4 | 1276.4 | 1278.4 |
| 42.5° | 6048.5 | 4552.2 | 1352.0 | 1271.7 | 1296.5 | 1278.4 | 1232.5 | 1250.6 | 1248.7 | 1160.8 | 1159.8 |
| 45° | 6548.6 | 4800.8 | 1324.3 | 1253.5 | 1261.1 | 1224.8 | 1174.1 | 1178.9 | 1138.8 | 1059.4 | 1062.3 |
| 47.5° | 7045.8 | 5067.5 | 1341.5 | 1238.2 | 1217.2 | 1176.1 | 1136.8 | 1115.8 | 1056.5 | 997.3 | 997.3 |
| 50° | 7533.4 | 5347.7 | 1404.6 | 1207.6 | 1156.9 | 1133.0 | 1104.3 | 1067.1 | 1003.9 | 953.3 | 949.4 |
| 52.5° | 7985.7 | 5629.7 | 1475.3 | 1156.9 | 1081.4 | 1095.7 | 1077.6 | 1034.5 | 972.4 | 920.8 | 921.7 |
| 55° | 8414.0 | 5911.8 | 1503.0 | 1087.1 | 1010.6 | 1063.2 | 1052.7 | 973.3 | 898.8 | 856.7 | 852.9 |
| 57.5° | 8880.6 | 6251.2 | 1472.5 | 998.2 | 953.3 | 1025.9 | 985.8 | 897.8 | 854.8 | 823.2 | 820.4 |
| 60° | 9527.0 | 6783.8 | 1406.5 | 888.3 | 898.8 | 970.5 | 901.6 | 865.3 | 818.5 | 783.1 | 781.2 |
| 62.5° | 10600.7 | 7777.2 | 1300.3 | 779.3 | 834.7 | 888.3 | 861.5 | 825.1 | 777.3 | 742.9 | 742.9 |
| 65° | 12187.9 | 9157.9 | 1100.5 | 694.2 | 763.0 | 807.9 | 818.5 | 782.1 | 732.4 | 696.1 | 698.0 |
| 67.5° | 13526.5 | 10024.2 | 832.8 | 623.4 | 689.4 | 742.9 | 772.6 | 737.2 | 684.6 | 649.2 | 650.2 |
| 70° | 13452.9 | 9395.0 | 635.8 | 553.6 | 624.4 | 678.9 | 717.1 | 689.4 | 633.0 | 599.5 | 602.4 |
| 72.5° | 11948.9 | 7859.5 | 514.4 | 482.8 | 558.4 | 611.9 | 657.8 | 636.8 | 579.4 | 546.9 | 546.9 |
| 75° | 8778.3 | 5579.1 | 411.1 | 411.1 | 476.2 | 542.1 | 592.8 | 579.4 | 526.8 | 503.9 | 497.2 |
| 77.5° | 3700.3 | 2340.6 | 322.2 | 341.3 | 395.8 | 465.6 | 528.7 | 533.5 | 487.6 | 516.3 | 468.5 |
| 80° | 983.9 | 645.4 | 245.7 | 268.7 | 310.7 | 384.4 | 459.9 | 458.0 | 408.3 | 381.5 | 354.7 |
| 82.5° | 374.8 | 254.3 | 175.0 | 189.3 | 224.7 | 294.5 | 364.3 | 375.8 | 326.0 | 282.1 | 282.1 |
| 85° | 144.4 | 109.0 | 108.0 | 113.8 | 131.0 | 195.1 | 275.4 | 284.9 | 245.7 | 208.4 | 215.1 |
| 87.5° | 37.3 | 32.5 | 40.2 | 38.2 | 60.2 | 104.2 | 157.8 | 163.5 | 150.1 | 87.0 | 124.3 |
| 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)