

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: P966179

Luminaire Tested: **NVN-SB4B-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4B-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17870.9 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

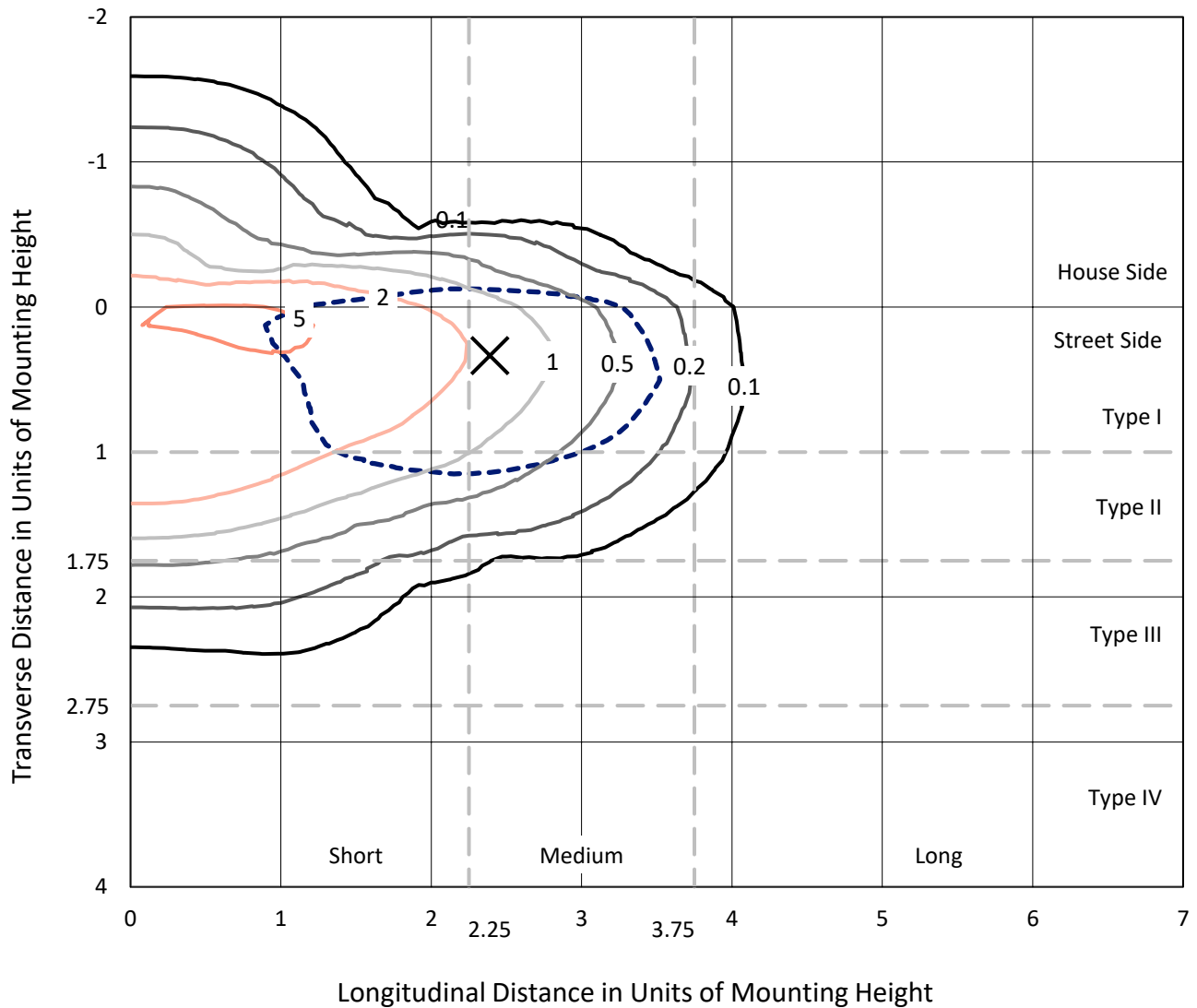
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

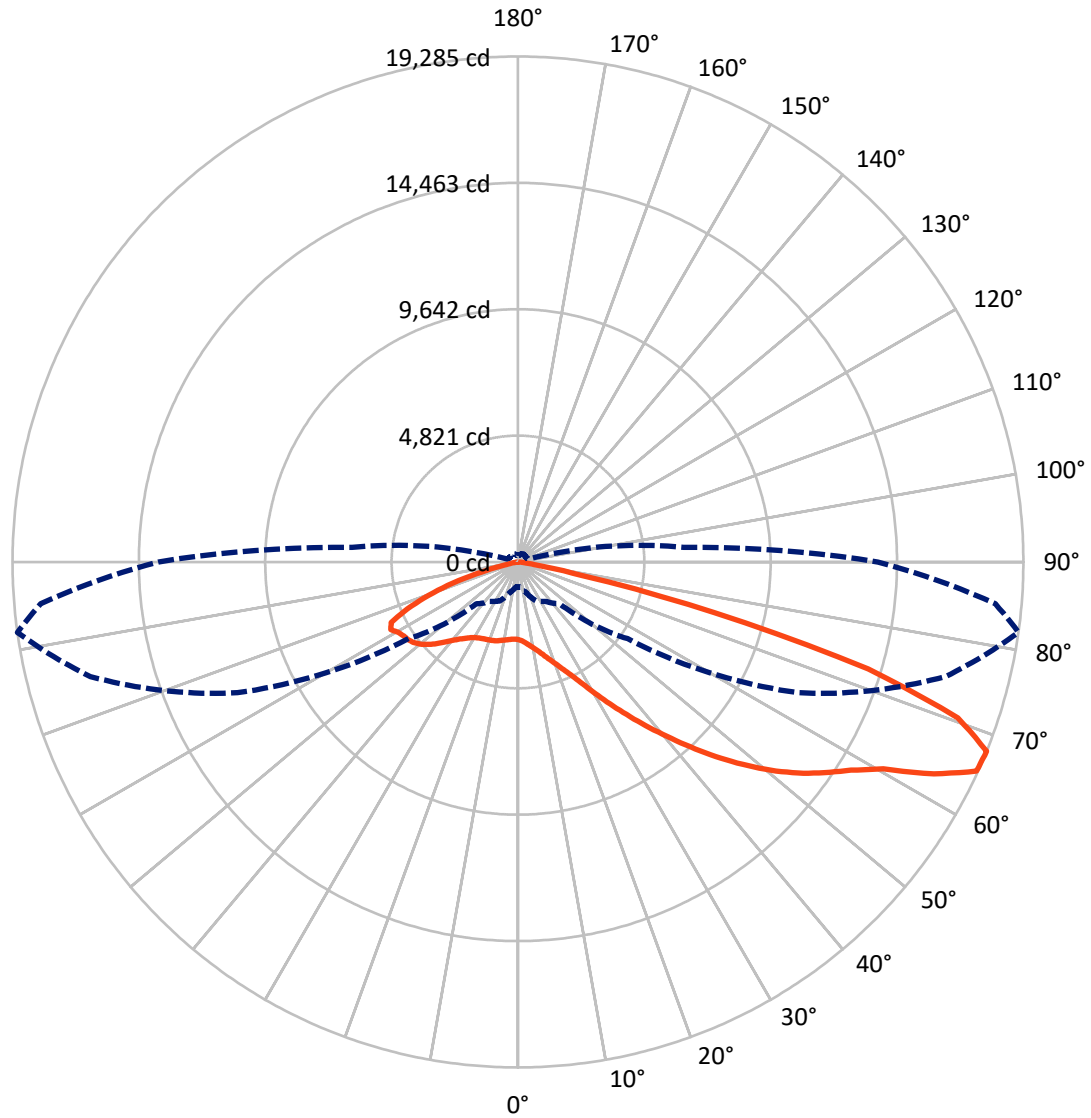
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3237.2 | 0.0 | 3237.2 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 14633.7 | 0.0 | 14633.7 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 17870.9 | 0.0 | 17870.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 263.8 | 1.5 |
| 10°-20° | 685.4 | 3.8 |
| 20°-30° | 1097.8 | 6.1 |
| 30°-40° | 1941.3 | 10.9 |
| 40°-50° | 3401.4 | 19.0 |
| 50°-60° | 4536.5 | 25.4 |
| 60°-70° | 4223.2 | 23.6 |
| 70°-80° | 1620.9 | 9.1 |
| 80°-90° | 100.7 | 0.6 |
| 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° | 17870.9 | 100.0 |
| 0°-180° | 17870.9 | 100.0 |

Coefficient of Utilization



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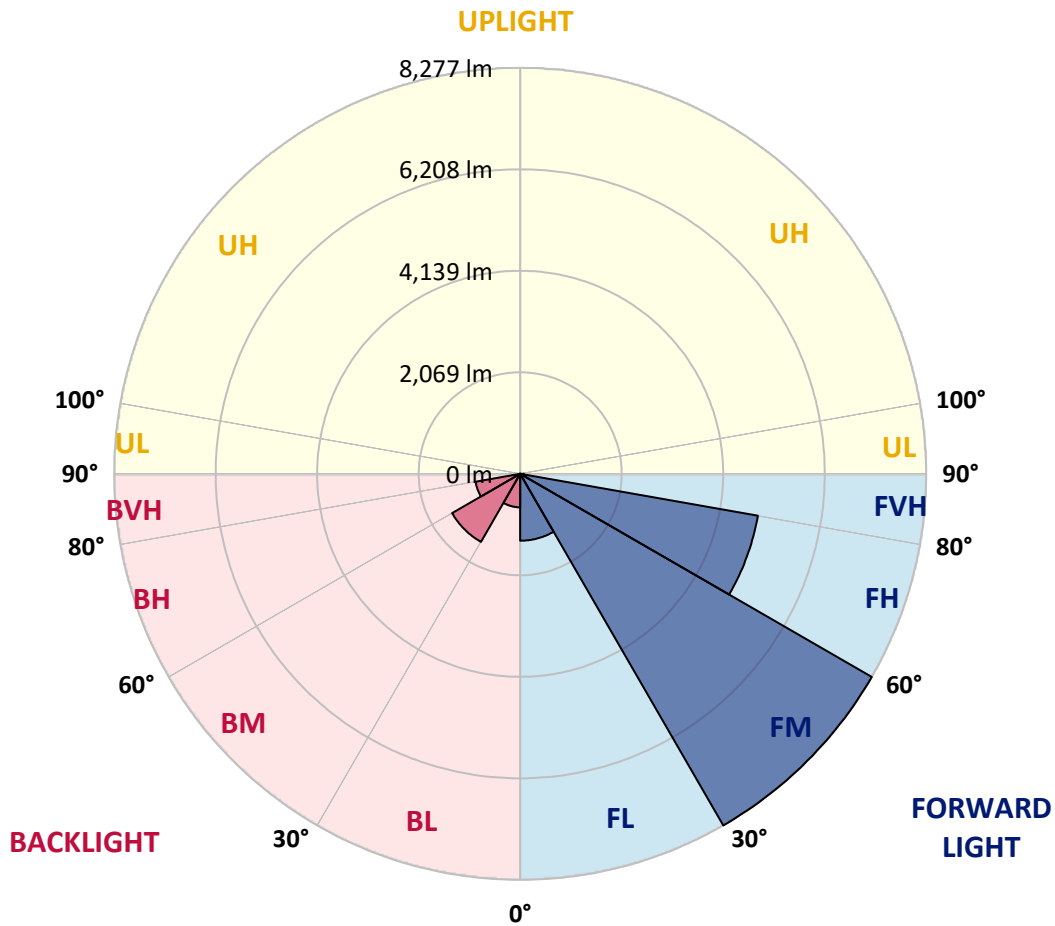
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1363.4 | 7.6 | | | |
| FM (30°-60°) | 8277.1 | 46.3 | | | |
| FH (60°-80°) | 4920.1 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 73.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 683.7 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1602.1 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 923.9 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 |
| 2.5° | 3129.1 | 3147.2 | 3136.9 | 3131.7 | 3122.8 | 3109.8 | 3099.6 | 3067.4 | 3033.9 | 3012.1 | 3004.4 |
| 5° | 3192.2 | 3210.2 | 3209.0 | 3214.1 | 3220.5 | 3224.3 | 3221.8 | 3185.8 | 3138.1 | 3100.8 | 3079.0 |
| 7.5° | 3138.1 | 3158.7 | 3175.4 | 3201.2 | 3246.3 | 3293.8 | 3317.0 | 3309.3 | 3260.4 | 3209.0 | 3181.9 |
| 10° | 2985.0 | 3006.9 | 3046.8 | 3107.3 | 3202.5 | 3305.4 | 3391.6 | 3431.5 | 3400.6 | 3344.1 | 3306.8 |
| 12.5° | 2704.6 | 2726.4 | 2804.9 | 2936.1 | 3095.7 | 3274.6 | 3439.3 | 3546.0 | 3553.8 | 3497.1 | 3453.4 |
| 15° | 2389.3 | 2411.2 | 2494.8 | 2659.6 | 2902.7 | 3189.6 | 3465.0 | 3666.9 | 3735.2 | 3686.3 | 3633.5 |
| 17.5° | 2193.7 | 2213.1 | 2276.1 | 2408.6 | 2662.1 | 3019.8 | 3456.0 | 3795.7 | 3951.4 | 3912.7 | 3849.7 |
| 20° | 2134.6 | 2151.3 | 2180.9 | 2273.6 | 2484.5 | 2843.6 | 3396.7 | 3916.6 | 4184.3 | 4162.3 | 4091.6 |
| 22.5° | 2197.6 | 2213.1 | 2222.1 | 2263.2 | 2395.7 | 2727.7 | 3322.1 | 4040.1 | 4454.4 | 4457.0 | 4370.8 |
| 25° | 2343.0 | 2358.4 | 2348.2 | 2373.9 | 2431.8 | 2691.6 | 3293.8 | 4185.5 | 4794.1 | 4822.4 | 4724.6 |
| 27.5° | 2582.3 | 2583.6 | 2559.1 | 2557.9 | 2566.9 | 2745.8 | 3323.5 | 4341.2 | 5222.6 | 5275.3 | 5154.3 |
| 30° | 3062.3 | 3042.9 | 2949.0 | 2847.3 | 2801.0 | 2907.8 | 3405.8 | 4525.2 | 5728.2 | 5822.1 | 5670.3 |
| 32.5° | 3802.0 | 3773.7 | 3601.3 | 3358.2 | 3113.7 | 3169.0 | 3553.8 | 4734.9 | 6278.8 | 6448.7 | 6263.5 |
| 35° | 4604.9 | 4597.2 | 4417.1 | 4055.5 | 3628.4 | 3540.9 | 3794.3 | 5010.2 | 6879.8 | 7150.0 | 6929.9 |
| 37.5° | 5351.2 | 5347.3 | 5244.4 | 4818.5 | 4298.7 | 4059.4 | 4180.4 | 5370.5 | 7523.1 | 7914.2 | 7654.3 |
| 40° | 6033.2 | 6044.7 | 5941.8 | 5560.9 | 5037.3 | 4724.6 | 4705.3 | 5815.6 | 8238.4 | 8746.7 | 8437.9 |
| 42.5° | 6622.4 | 6635.3 | 6531.1 | 6249.3 | 5766.8 | 5460.6 | 5349.9 | 6361.3 | 8937.1 | 9640.9 | 9275.5 |
| 45° | 7022.6 | 7102.3 | 7087.0 | 6861.8 | 6515.6 | 6197.9 | 6124.5 | 7045.7 | 9733.6 | 10589.2 | 10160.7 |
| 47.5° | 7135.8 | 7209.1 | 7325.0 | 7355.8 | 7144.8 | 6832.1 | 6919.7 | 7870.5 | 10539.0 | 11538.7 | 11051.1 |
| 50° | 6856.6 | 6924.8 | 7165.4 | 7485.8 | 7632.5 | 7536.0 | 7692.9 | 8754.4 | 11363.8 | 12485.7 | 11924.7 |
| 52.5° | 6305.9 | 6375.4 | 6679.0 | 7186.0 | 7784.3 | 8088.0 | 8468.8 | 9625.5 | 12162.8 | 13382.5 | 12752.0 |
| 55° | 5509.5 | 5582.8 | 5972.7 | 6546.5 | 7494.8 | 8315.6 | 9115.9 | 10495.3 | 12894.9 | 14189.3 | 13498.3 |
| 57.5° | 4426.1 | 4480.2 | 4885.5 | 5688.3 | 6766.5 | 8089.2 | 9593.3 | 11444.8 | 13584.5 | 14981.8 | 14238.2 |
| 60° | 2884.7 | 2932.3 | 3403.2 | 4298.7 | 5559.6 | 7332.6 | 9688.5 | 12503.8 | 14500.7 | 16012.4 | 15235.3 |
| 62.5° | 1918.4 | 1950.6 | 2229.8 | 2887.2 | 3915.3 | 5880.0 | 9131.4 | 13349.1 | 15843.9 | 17806.1 | 16945.3 |
| 65° | 1316.2 | 1348.4 | 1627.6 | 2085.7 | 2529.6 | 3889.6 | 7529.5 | 13237.2 | 17061.1 | 19230.4 | 18212.6 |
| 67.5° | 939.3 | 966.3 | 1203.0 | 1635.4 | 1831.0 | 2259.4 | 5104.2 | 11806.4 | 16886.1 | 19284.5 | 18280.9 |
| 70° | 672.9 | 688.4 | 884.0 | 1273.8 | 1455.2 | 1357.4 | 2838.3 | 9029.7 | 14785.0 | 17807.3 | 16888.6 |
| 72.5° | 470.9 | 476.1 | 613.8 | 970.2 | 1172.2 | 990.8 | 1350.9 | 6020.2 | 11182.3 | 13977.0 | 13093.0 |
| 75° | 319.1 | 325.5 | 413.0 | 711.6 | 940.5 | 756.6 | 715.3 | 3228.2 | 6564.5 | 7736.7 | 6935.0 |
| 77.5° | 195.6 | 198.1 | 266.3 | 486.4 | 703.8 | 576.5 | 460.6 | 1367.8 | 2539.8 | 2493.5 | 2125.5 |
| 80° | 110.7 | 110.7 | 169.8 | 302.4 | 479.9 | 371.9 | 323.0 | 581.6 | 804.1 | 706.3 | 622.8 |
| 82.5° | 61.8 | 63.0 | 123.5 | 187.9 | 317.9 | 220.1 | 177.5 | 269.0 | 347.4 | 307.5 | 267.6 |
| 85° | 25.7 | 28.3 | 76.0 | 88.8 | 151.8 | 109.4 | 72.1 | 113.3 | 128.6 | 114.5 | 83.6 |
| 87.5° | 2.6 | 3.9 | 23.2 | 16.7 | 18.0 | 21.8 | 10.2 | 21.8 | 18.0 | 18.0 | 12.9 |
| 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° | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 | 2960.6 |
| 2.5° | 2979.9 | 2960.6 | 2911.7 | 2855.1 | 2780.5 | 2744.4 | 2695.5 | 2662.1 | 2633.7 | 2636.4 | 2610.7 |
| 5° | 3037.8 | 2988.9 | 2879.5 | 2743.1 | 2573.4 | 2452.4 | 2323.7 | 2234.9 | 2162.9 | 2147.5 | 2112.7 |
| 7.5° | 3117.5 | 3040.4 | 2848.7 | 2602.9 | 2316.0 | 2098.6 | 1904.2 | 1779.4 | 1690.6 | 1662.3 | 1634.1 |
| 10° | 3220.5 | 3108.5 | 2808.8 | 2426.7 | 2013.6 | 1737.0 | 1528.6 | 1430.8 | 1370.3 | 1349.7 | 1334.2 |
| 12.5° | 3340.2 | 3187.0 | 2756.0 | 2211.7 | 1702.2 | 1435.9 | 1303.4 | 1254.5 | 1235.2 | 1228.8 | 1224.9 |
| 15° | 3490.7 | 3284.8 | 2676.3 | 1957.0 | 1438.5 | 1251.9 | 1195.4 | 1188.9 | 1191.5 | 1188.9 | 1187.6 |
| 17.5° | 3669.5 | 3391.6 | 2546.3 | 1694.5 | 1261.0 | 1157.9 | 1137.4 | 1142.6 | 1149.0 | 1147.7 | 1145.1 |
| 20° | 3865.1 | 3497.1 | 2380.4 | 1461.6 | 1140.0 | 1091.1 | 1079.5 | 1084.7 | 1089.8 | 1087.2 | 1086.0 |
| 22.5° | 4087.7 | 3610.4 | 2196.4 | 1280.2 | 1058.9 | 1029.3 | 1016.5 | 1017.7 | 1017.7 | 1012.6 | 1010.0 |
| 25° | 4354.1 | 3735.2 | 2003.4 | 1151.6 | 997.1 | 974.0 | 958.6 | 953.5 | 945.7 | 930.3 | 927.7 |
| 27.5° | 4671.8 | 3867.7 | 1818.0 | 1061.5 | 948.2 | 926.4 | 908.4 | 895.5 | 876.2 | 850.4 | 847.9 |
| 30° | 5029.6 | 4028.6 | 1661.1 | 1004.9 | 909.7 | 887.8 | 867.3 | 847.9 | 819.6 | 787.4 | 784.8 |
| 32.5° | 5450.2 | 4201.0 | 1546.5 | 967.6 | 874.9 | 851.8 | 827.3 | 804.1 | 773.3 | 741.1 | 742.4 |
| 35° | 5952.1 | 4409.3 | 1479.7 | 941.9 | 847.9 | 817.0 | 790.0 | 764.2 | 741.1 | 712.8 | 710.2 |
| 37.5° | 6496.3 | 4630.6 | 1459.1 | 929.0 | 829.9 | 782.3 | 751.4 | 733.4 | 730.8 | 714.1 | 712.8 |
| 40° | 7092.1 | 4893.1 | 1474.5 | 921.3 | 810.6 | 748.9 | 715.3 | 711.6 | 717.9 | 688.4 | 689.6 |
| 42.5° | 7722.6 | 5204.5 | 1500.3 | 912.2 | 783.6 | 715.3 | 683.3 | 683.3 | 678.0 | 636.9 | 636.9 |
| 45° | 8404.5 | 5563.5 | 1526.0 | 890.4 | 751.4 | 681.9 | 657.4 | 648.5 | 626.6 | 586.7 | 585.5 |
| 47.5° | 9091.5 | 5928.9 | 1545.3 | 850.4 | 712.8 | 653.6 | 631.7 | 611.2 | 579.0 | 542.9 | 541.7 |
| 50° | 9743.9 | 6257.0 | 1524.7 | 791.3 | 669.0 | 626.6 | 603.4 | 575.1 | 540.4 | 516.0 | 512.1 |
| 52.5° | 10326.7 | 6541.3 | 1437.2 | 721.8 | 622.8 | 598.3 | 577.7 | 548.1 | 519.8 | 494.0 | 491.5 |
| 55° | 10833.6 | 6771.7 | 1282.8 | 656.2 | 581.6 | 573.9 | 553.3 | 516.0 | 477.3 | 455.5 | 452.9 |
| 57.5° | 11320.0 | 6946.6 | 1089.8 | 602.2 | 544.3 | 546.8 | 516.0 | 482.5 | 446.5 | 423.3 | 420.8 |
| 60° | 11967.2 | 7180.8 | 894.2 | 552.0 | 504.4 | 512.1 | 478.7 | 454.2 | 409.2 | 379.6 | 375.7 |
| 62.5° | 13001.7 | 7544.9 | 710.2 | 490.3 | 458.1 | 460.6 | 446.5 | 416.9 | 362.8 | 328.1 | 325.5 |
| 65° | 13822.5 | 7411.2 | 559.6 | 423.3 | 405.3 | 409.2 | 409.2 | 377.0 | 319.1 | 279.2 | 275.3 |
| 67.5° | 13729.9 | 6345.8 | 446.5 | 357.7 | 355.2 | 357.7 | 366.7 | 339.7 | 283.1 | 250.9 | 245.8 |
| 70° | 12647.9 | 5047.5 | 357.7 | 297.2 | 308.8 | 302.4 | 328.1 | 310.1 | 254.7 | 222.6 | 218.7 |
| 72.5° | 10320.3 | 3636.1 | 272.8 | 245.8 | 236.8 | 247.0 | 295.9 | 279.2 | 212.3 | 176.3 | 172.4 |
| 75° | 6030.6 | 1940.3 | 203.3 | 194.2 | 171.2 | 205.8 | 262.5 | 238.0 | 162.2 | 130.0 | 126.1 |
| 77.5° | 1963.5 | 676.8 | 149.2 | 142.8 | 127.4 | 165.9 | 223.9 | 200.7 | 132.5 | 102.9 | 99.1 |
| 80° | 526.2 | 204.6 | 101.7 | 93.9 | 82.3 | 123.5 | 177.5 | 159.6 | 95.2 | 66.9 | 65.6 |
| 82.5° | 211.0 | 86.2 | 59.1 | 52.8 | 45.0 | 84.9 | 140.2 | 128.6 | 70.7 | 42.4 | 42.4 |
| 85° | 68.2 | 28.3 | 21.8 | 16.7 | 20.6 | 52.8 | 83.6 | 87.5 | 50.2 | 21.8 | 16.7 |
| 87.5° | 9.0 | 3.9 | 3.9 | 5.1 | 3.9 | 9.0 | 25.7 | 24.5 | 14.1 | 2.6 | 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)