

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: P971455

Luminaire Tested: **NVN-SB6D-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6D-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52482 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

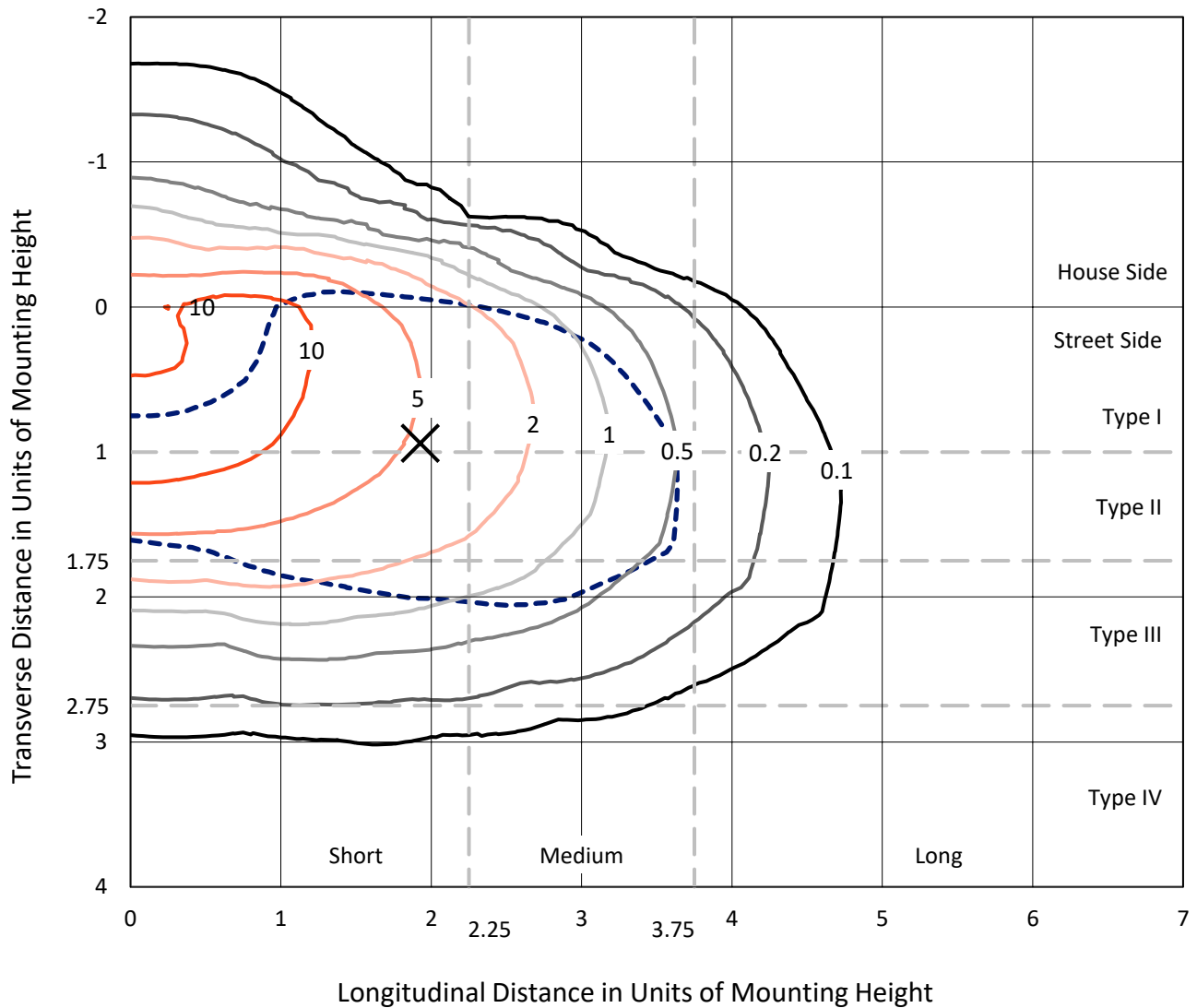
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

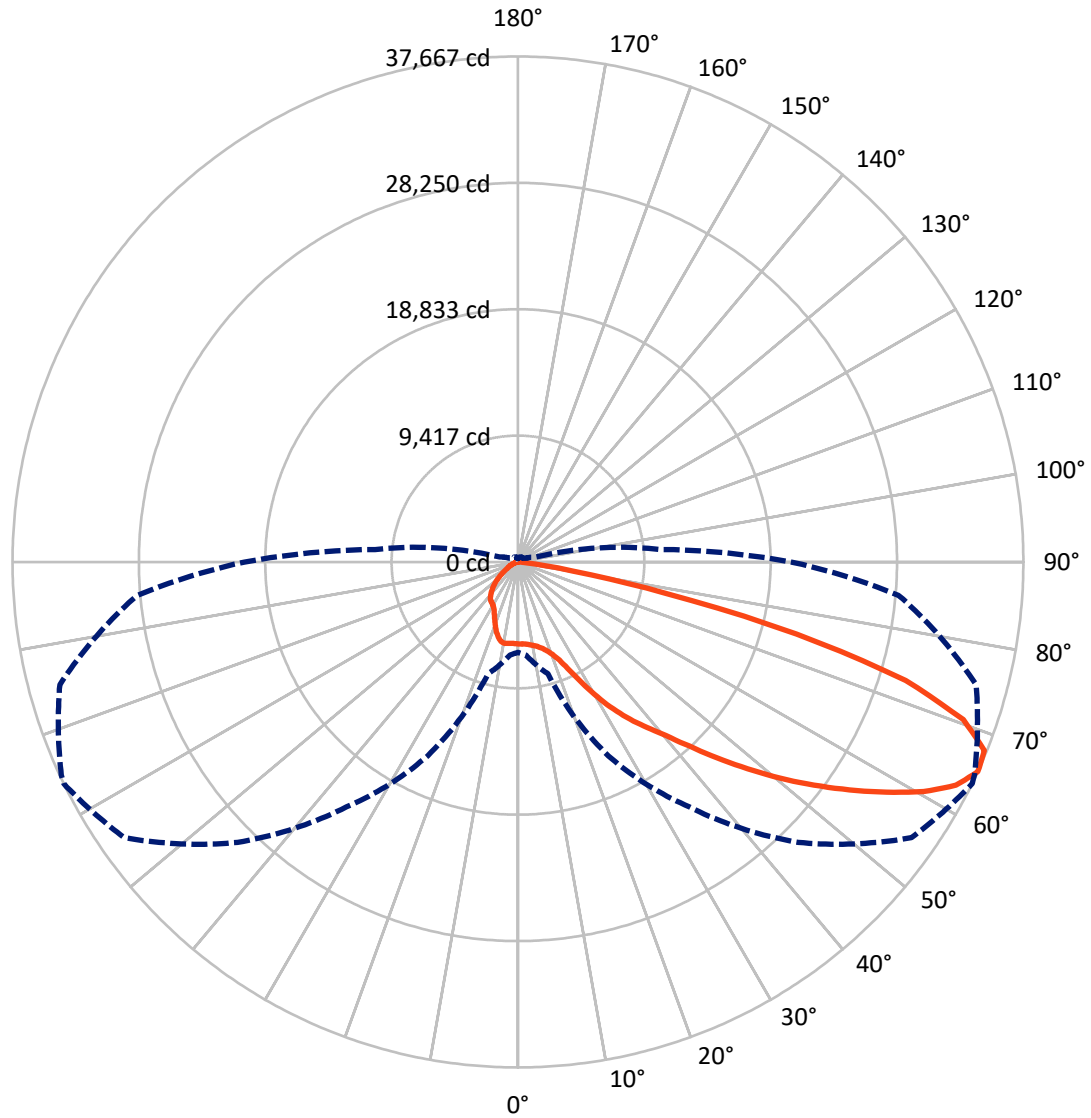
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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 | 7018.4 | 0.0 | 7018.4 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 45463.6 | 0.0 | 45463.6 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 52482.0 | 0.0 | 52482.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 563.2 | 1.1 |
| 10°-20° | 1527.5 | 2.9 |
| 20°-30° | 2894.5 | 5.5 |
| 30°-40° | 5857.0 | 11.2 |
| 40°-50° | 9977.5 | 19.0 |
| 50°-60° | 13568.6 | 25.9 |
| 60°-70° | 12741.6 | 24.3 |
| 70°-80° | 5104.8 | 9.7 |
| 80°-90° | 247.3 | 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° | 52482.0 | 100.0 |
| 0°-180° | 52482.0 | 100.0 |

Coefficient of Utilization



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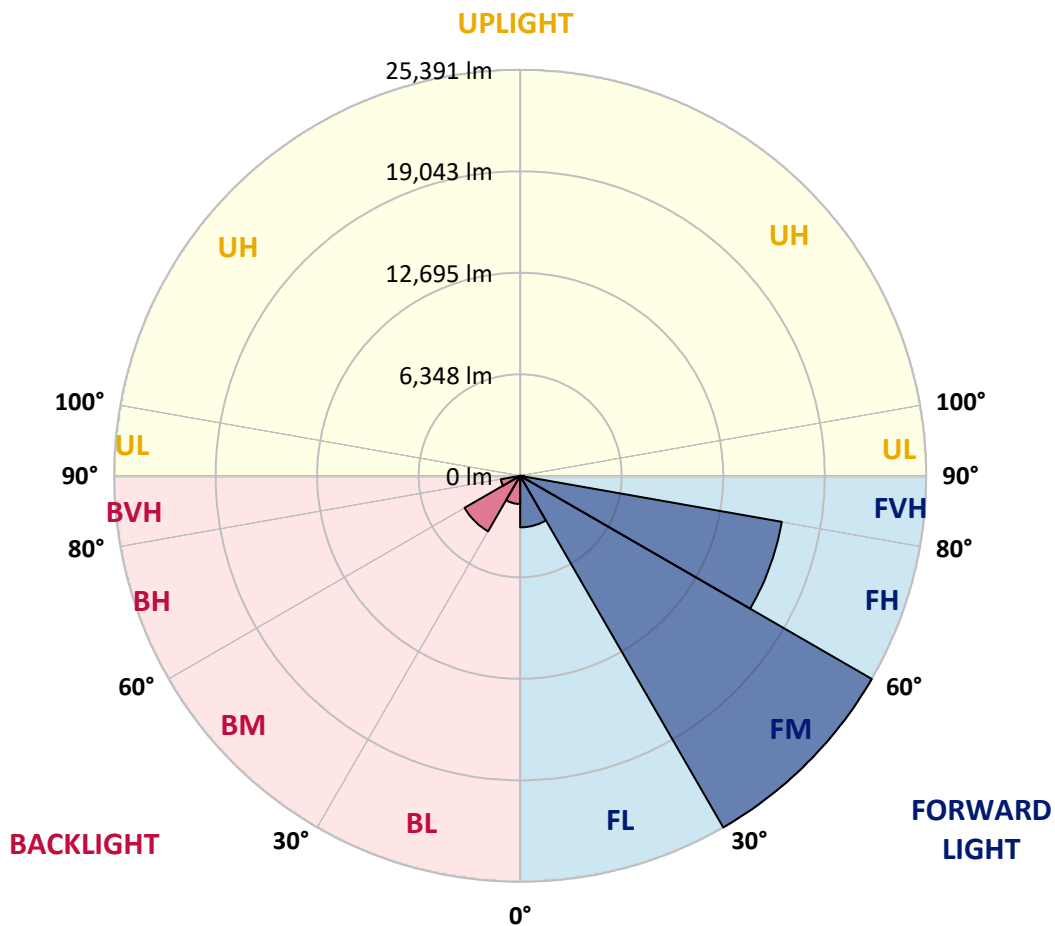
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3223.0 | 6.1 | | | |
| FM (30°-60°) | 25390.8 | 48.4 | | | |
| FH (60°-80°) | 16614.6 | 31.7 | | | G5 |
| FVH (80°-90°) | 235.2 | 0.4 | | | G3/500 |
| BL (0°-30°) | 1762.1 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 4012.4 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 1231.8 | 2.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 12.1 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 |
| 2.5° | 6083.1 | 6125.3 | 6114.7 | 6104.2 | 6100.7 | 6107.8 | 6111.3 | 6107.8 | 6107.8 | 6107.8 | 6111.3 |
| 5° | 5967.0 | 6002.2 | 6002.2 | 6026.8 | 6062.0 | 6104.2 | 6135.9 | 6142.9 | 6149.9 | 6160.5 | 6157.0 |
| 7.5° | 5745.3 | 5773.5 | 5794.6 | 5875.5 | 5963.4 | 6076.1 | 6171.0 | 6220.3 | 6227.4 | 6266.0 | 6280.1 |
| 10° | 5594.0 | 5629.2 | 5664.5 | 5748.8 | 5875.5 | 6044.4 | 6206.3 | 6325.9 | 6343.4 | 6435.0 | 6477.2 |
| 12.5° | 5587.1 | 5622.2 | 5667.9 | 5759.4 | 5907.2 | 6086.7 | 6283.7 | 6456.1 | 6487.7 | 6621.4 | 6709.3 |
| 15° | 5660.9 | 5703.1 | 5745.3 | 5858.0 | 6016.2 | 6234.4 | 6445.5 | 6660.1 | 6691.7 | 6881.7 | 6976.8 |
| 17.5° | 5812.2 | 5868.4 | 5900.1 | 6012.8 | 6181.6 | 6424.4 | 6702.3 | 6948.6 | 6976.8 | 7198.4 | 7318.0 |
| 20° | 6111.3 | 6178.1 | 6188.6 | 6280.1 | 6445.5 | 6705.9 | 7036.5 | 7342.7 | 7377.8 | 7631.1 | 7764.8 |
| 22.5° | 6730.5 | 6825.5 | 6741.0 | 6786.7 | 6934.5 | 7194.9 | 7553.7 | 7940.8 | 7990.0 | 8278.5 | 8398.1 |
| 25° | 7821.2 | 7954.8 | 7736.7 | 7659.3 | 7722.7 | 7993.6 | 8443.8 | 8932.9 | 8989.1 | 9221.4 | 9281.2 |
| 27.5° | 9963.7 | 9791.3 | 9460.6 | 9137.0 | 8947.0 | 9101.8 | 9608.5 | 10213.5 | 10283.9 | 10509.1 | 10438.7 |
| 30° | 12317.5 | 12166.2 | 11719.3 | 11001.6 | 10551.3 | 10526.6 | 10994.6 | 11670.1 | 11751.0 | 11965.6 | 11751.0 |
| 32.5° | 14674.7 | 14530.5 | 14045.0 | 13161.8 | 12380.8 | 11993.8 | 12317.5 | 13066.9 | 13109.1 | 13246.3 | 12929.7 |
| 35° | 16993.3 | 16845.5 | 16360.0 | 15455.8 | 14495.2 | 13615.7 | 13552.3 | 14396.7 | 14410.9 | 14555.1 | 14083.7 |
| 37.5° | 19325.9 | 19202.8 | 18685.5 | 17798.9 | 16852.5 | 15638.7 | 15051.2 | 15656.4 | 15673.9 | 15814.6 | 15325.6 |
| 40° | 20990.1 | 21042.8 | 20687.5 | 20001.4 | 19188.7 | 17862.3 | 16732.9 | 16996.8 | 16891.3 | 17126.9 | 16834.9 |
| 42.5° | 22418.5 | 22524.0 | 22214.4 | 21869.6 | 21398.1 | 20230.1 | 18815.7 | 18770.0 | 18601.1 | 18727.8 | 18425.2 |
| 45° | 23653.4 | 23741.4 | 23463.4 | 23382.5 | 23371.9 | 22552.2 | 21092.0 | 20817.6 | 20581.9 | 20557.3 | 20194.9 |
| 47.5° | 24107.2 | 24276.1 | 24395.7 | 24666.6 | 25194.4 | 24849.6 | 23445.7 | 23020.1 | 22756.2 | 22562.7 | 21989.2 |
| 50° | 24279.6 | 24459.1 | 24867.2 | 25655.2 | 26904.2 | 27052.0 | 25789.0 | 25310.4 | 24986.8 | 24635.0 | 23790.6 |
| 52.5° | 24047.4 | 24367.5 | 24916.4 | 26242.8 | 28054.8 | 28818.2 | 28037.1 | 27618.4 | 27249.0 | 26675.5 | 25423.1 |
| 55° | 22678.8 | 22998.9 | 24121.3 | 26235.8 | 28628.2 | 30056.6 | 30162.2 | 29975.7 | 29560.6 | 28656.3 | 26742.5 |
| 57.5° | 19793.8 | 20268.8 | 22045.5 | 25342.1 | 28617.7 | 31122.7 | 32245.0 | 32378.7 | 31914.3 | 30619.5 | 27780.3 |
| 60° | 15797.1 | 16440.9 | 18608.2 | 23361.4 | 27734.6 | 31699.7 | 34071.0 | 34739.4 | 34246.9 | 32554.6 | 28621.2 |
| 62.5° | 11022.7 | 11768.6 | 13819.8 | 20258.2 | 25715.1 | 31284.5 | 35404.4 | 36639.3 | 36266.3 | 34285.6 | 28944.9 |
| 65° | 6723.4 | 6962.6 | 8616.3 | 15941.3 | 22281.2 | 29546.4 | 35816.1 | 37666.7 | 37543.5 | 35344.6 | 28466.4 |
| 67.5° | 4478.7 | 4679.3 | 5154.3 | 10931.3 | 17295.8 | 26073.9 | 34830.9 | 37487.2 | 37522.4 | 35172.2 | 26714.3 |
| 70° | 2698.5 | 2870.9 | 3180.5 | 6357.6 | 11209.2 | 20638.2 | 31780.5 | 35200.3 | 35404.4 | 32867.8 | 23393.1 |
| 72.5° | 1111.8 | 1227.8 | 1509.3 | 2881.5 | 5805.2 | 13098.6 | 25306.9 | 30222.0 | 30696.9 | 27636.0 | 17953.8 |
| 75° | 629.8 | 689.6 | 886.6 | 1446.0 | 2519.0 | 6104.2 | 15329.1 | 21454.5 | 22154.6 | 19048.0 | 10801.1 |
| 77.5° | 418.7 | 446.8 | 573.5 | 935.8 | 1417.9 | 2082.8 | 6551.0 | 11177.5 | 12514.5 | 10403.5 | 4675.7 |
| 80° | 281.5 | 306.1 | 394.0 | 626.3 | 921.8 | 893.6 | 2086.4 | 4141.0 | 5094.5 | 3574.6 | 1139.9 |
| 82.5° | 190.0 | 193.5 | 281.5 | 411.6 | 584.0 | 432.8 | 615.7 | 1287.7 | 1618.4 | 1034.3 | 432.8 |
| 85° | 109.1 | 105.6 | 207.6 | 239.2 | 260.3 | 179.5 | 186.4 | 387.0 | 506.7 | 436.2 | 246.3 |
| 87.5° | 14.0 | 21.1 | 80.9 | 63.3 | 35.2 | 38.7 | 38.7 | 66.8 | 98.5 | 105.6 | 52.8 |
| 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° | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 |
| 2.5° | 6111.3 | 6107.8 | 6097.2 | 6086.7 | 6062.0 | 6047.9 | 6055.0 | 6047.9 | 6044.4 | 6047.9 | 6062.0 |
| 5° | 6157.0 | 6146.4 | 6118.3 | 6083.1 | 6033.9 | 5974.0 | 5935.4 | 5879.0 | 5826.3 | 5794.6 | 5801.6 |
| 7.5° | 6280.1 | 6269.6 | 6230.9 | 6132.4 | 5974.0 | 5724.2 | 5495.5 | 5295.0 | 5143.8 | 5055.8 | 5059.3 |
| 10° | 6477.2 | 6459.5 | 6399.8 | 6181.6 | 5766.4 | 5221.1 | 4767.3 | 4390.8 | 4144.5 | 4028.5 | 4017.9 |
| 12.5° | 6709.3 | 6688.2 | 6582.7 | 6135.9 | 5372.4 | 4521.0 | 3894.7 | 3476.1 | 3247.4 | 3145.3 | 3134.8 |
| 15° | 6983.7 | 6955.6 | 6748.1 | 5917.7 | 4798.9 | 3747.0 | 3173.5 | 2860.4 | 2712.6 | 2621.1 | 2624.6 |
| 17.5° | 7325.1 | 7275.8 | 6871.2 | 5590.6 | 4176.2 | 3155.9 | 2730.2 | 2494.4 | 2364.3 | 2276.3 | 2269.2 |
| 20° | 7768.4 | 7687.4 | 6969.7 | 5200.0 | 3602.7 | 2783.0 | 2431.1 | 2234.1 | 2135.6 | 2058.2 | 2044.2 |
| 22.5° | 8387.6 | 8271.4 | 7089.3 | 4777.8 | 3198.1 | 2526.1 | 2209.5 | 2065.3 | 1984.3 | 1896.4 | 1882.3 |
| 25° | 9154.6 | 9017.3 | 7237.1 | 4387.3 | 2920.1 | 2304.5 | 2047.6 | 1928.0 | 1833.0 | 1731.0 | 1720.5 |
| 27.5° | 10227.7 | 9981.3 | 7413.0 | 4067.1 | 2680.9 | 2114.5 | 1899.8 | 1766.2 | 1657.1 | 1572.7 | 1555.0 |
| 30° | 11423.8 | 11019.3 | 7567.8 | 3873.6 | 2462.8 | 1938.6 | 1706.3 | 1572.7 | 1470.7 | 1410.8 | 1400.3 |
| 32.5° | 12556.8 | 12007.9 | 7669.9 | 3789.2 | 2265.8 | 1738.0 | 1495.3 | 1351.1 | 1273.7 | 1256.0 | 1266.6 |
| 35° | 13626.2 | 12901.5 | 7659.3 | 3708.2 | 2089.9 | 1537.5 | 1287.7 | 1139.9 | 1080.1 | 1090.7 | 1090.7 |
| 37.5° | 14857.7 | 13854.9 | 7585.4 | 3581.6 | 1945.7 | 1354.5 | 1108.2 | 978.1 | 925.3 | 928.9 | 942.9 |
| 40° | 16289.6 | 14956.2 | 7539.7 | 3342.3 | 1787.3 | 1185.6 | 960.5 | 855.0 | 816.2 | 802.2 | 798.7 |
| 42.5° | 17816.6 | 16022.2 | 7546.7 | 3071.4 | 1590.3 | 1034.3 | 858.4 | 770.5 | 735.3 | 724.8 | 721.3 |
| 45° | 19350.5 | 17039.0 | 7557.2 | 2789.9 | 1382.7 | 918.3 | 784.5 | 710.7 | 689.6 | 675.5 | 675.5 |
| 47.5° | 20793.0 | 17904.5 | 7360.2 | 2487.5 | 1178.6 | 830.4 | 724.8 | 675.5 | 657.9 | 640.3 | 640.3 |
| 50° | 22137.0 | 18481.5 | 6885.2 | 2135.6 | 1016.8 | 759.9 | 679.1 | 643.8 | 626.3 | 608.6 | 608.6 |
| 52.5° | 23181.9 | 18573.0 | 6100.7 | 1773.2 | 904.2 | 707.1 | 650.9 | 619.2 | 598.1 | 580.6 | 577.0 |
| 55° | 23646.3 | 17999.5 | 4985.4 | 1435.4 | 816.2 | 661.4 | 622.7 | 591.1 | 566.4 | 548.9 | 545.3 |
| 57.5° | 23526.7 | 16792.7 | 3887.7 | 1153.9 | 731.8 | 615.7 | 587.5 | 566.4 | 538.3 | 510.1 | 506.7 |
| 60° | 22939.2 | 15177.8 | 2930.7 | 960.5 | 654.4 | 566.4 | 548.9 | 531.3 | 492.5 | 450.4 | 443.3 |
| 62.5° | 21922.4 | 13147.8 | 2089.9 | 795.1 | 570.0 | 510.1 | 503.1 | 489.0 | 432.8 | 355.4 | 348.3 |
| 65° | 20367.3 | 10681.5 | 1407.3 | 661.4 | 489.0 | 446.8 | 450.4 | 425.7 | 351.8 | 263.8 | 256.9 |
| 67.5° | 18094.5 | 7810.6 | 900.7 | 541.8 | 408.2 | 372.9 | 376.5 | 362.3 | 299.1 | 225.2 | 214.6 |
| 70° | 15198.9 | 5171.8 | 587.5 | 411.6 | 327.2 | 288.5 | 309.7 | 313.1 | 253.3 | 183.0 | 175.9 |
| 72.5° | 11142.4 | 3053.9 | 411.6 | 306.1 | 239.2 | 200.6 | 253.3 | 260.3 | 204.1 | 137.2 | 130.2 |
| 75° | 6350.5 | 1449.6 | 309.7 | 221.6 | 147.8 | 140.7 | 197.0 | 197.0 | 140.7 | 91.4 | 84.5 |
| 77.5° | 2666.8 | 605.2 | 218.1 | 144.2 | 84.5 | 80.9 | 133.7 | 123.1 | 70.3 | 42.2 | 42.2 |
| 80° | 770.5 | 270.9 | 116.1 | 70.3 | 35.2 | 31.7 | 52.8 | 38.7 | 17.6 | 7.1 | 7.1 |
| 82.5° | 302.6 | 119.6 | 45.7 | 28.2 | 14.0 | 14.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 179.5 | 49.3 | 21.1 | 10.6 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 45.7 | 10.6 | 7.1 | 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)