

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: P885307

Luminaire Tested: **NVN-SB6C-740-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885307
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-SB6C-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48559 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

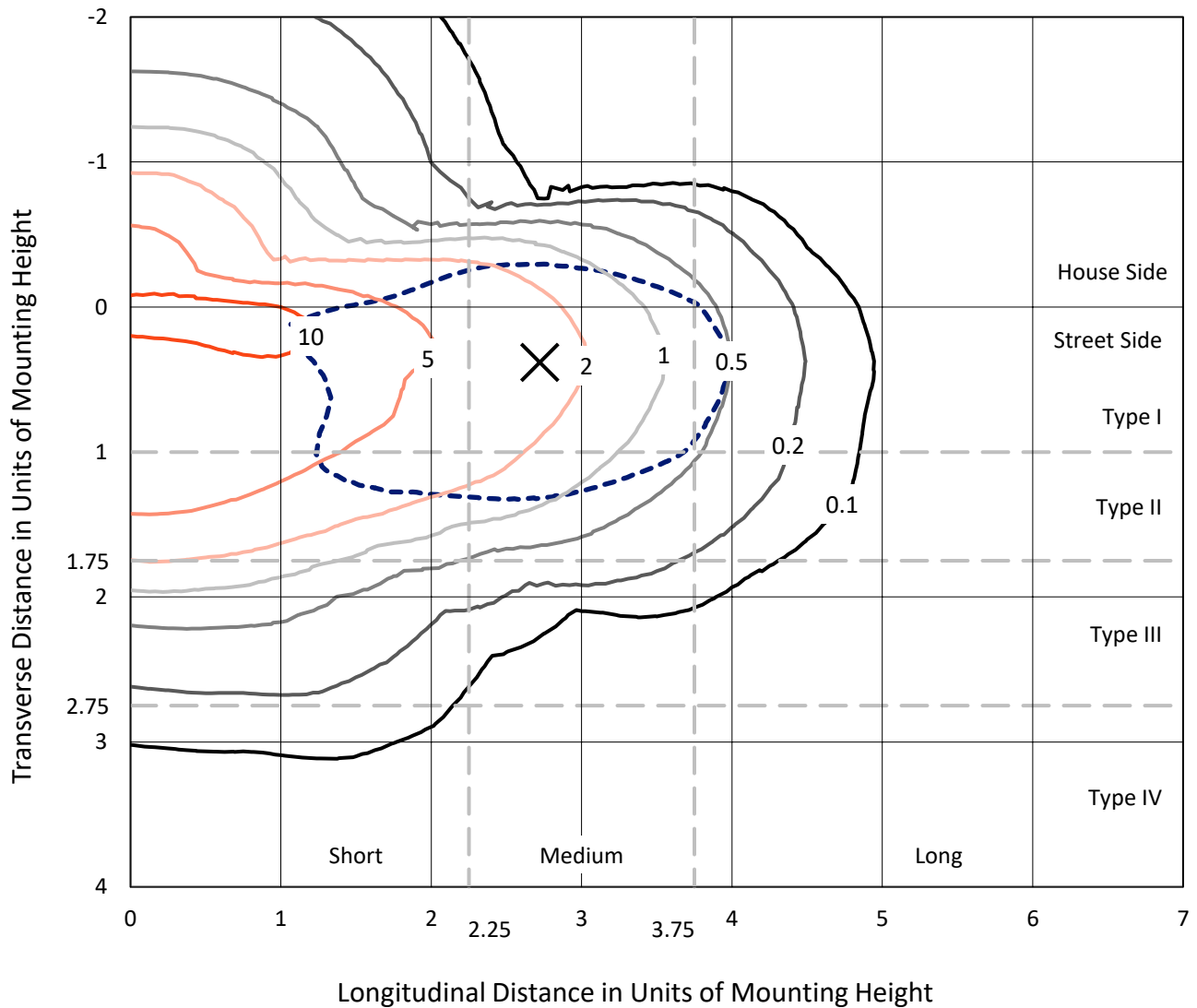
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

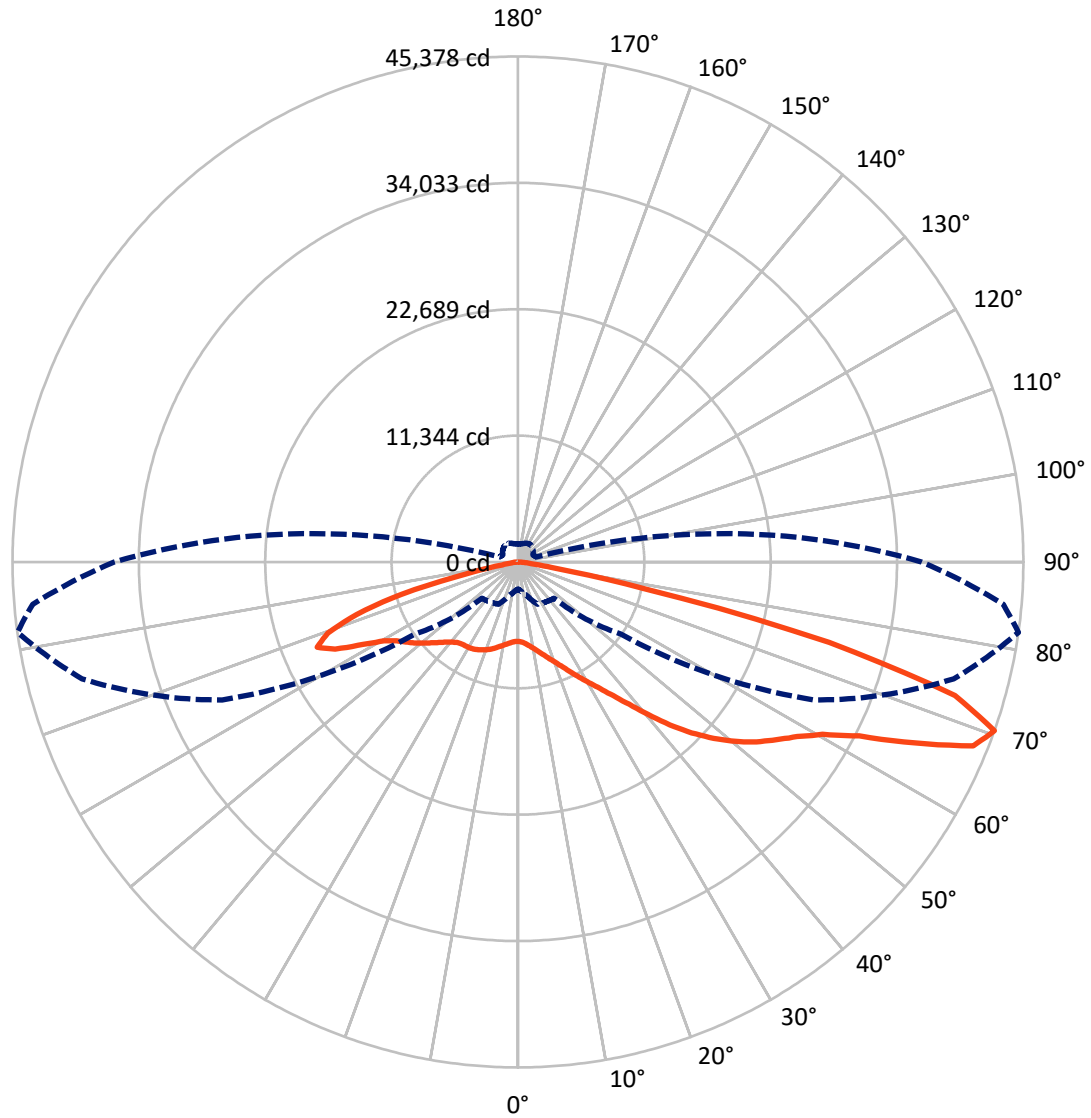
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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 | 11971.0 | 0.0 | 11971.0 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 36588.0 | 0.0 | 36588.0 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 48559.0 | 0.0 | 48559.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 672.2 | 1.4 |
| 10°-20° | 1931.2 | 4.0 |
| 20°-30° | 3230.8 | 6.7 |
| 30°-40° | 5047.3 | 10.4 |
| 40°-50° | 8038.5 | 16.6 |
| 50°-60° | 11186.5 | 23.0 |
| 60°-70° | 11701.6 | 24.1 |
| 70°-80° | 6115.9 | 12.6 |
| 80°-90° | 635.1 | 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° | 48559.0 | 100.0 |
| 0°-180° | 48559.0 | 100.0 |

Coefficient of Utilization

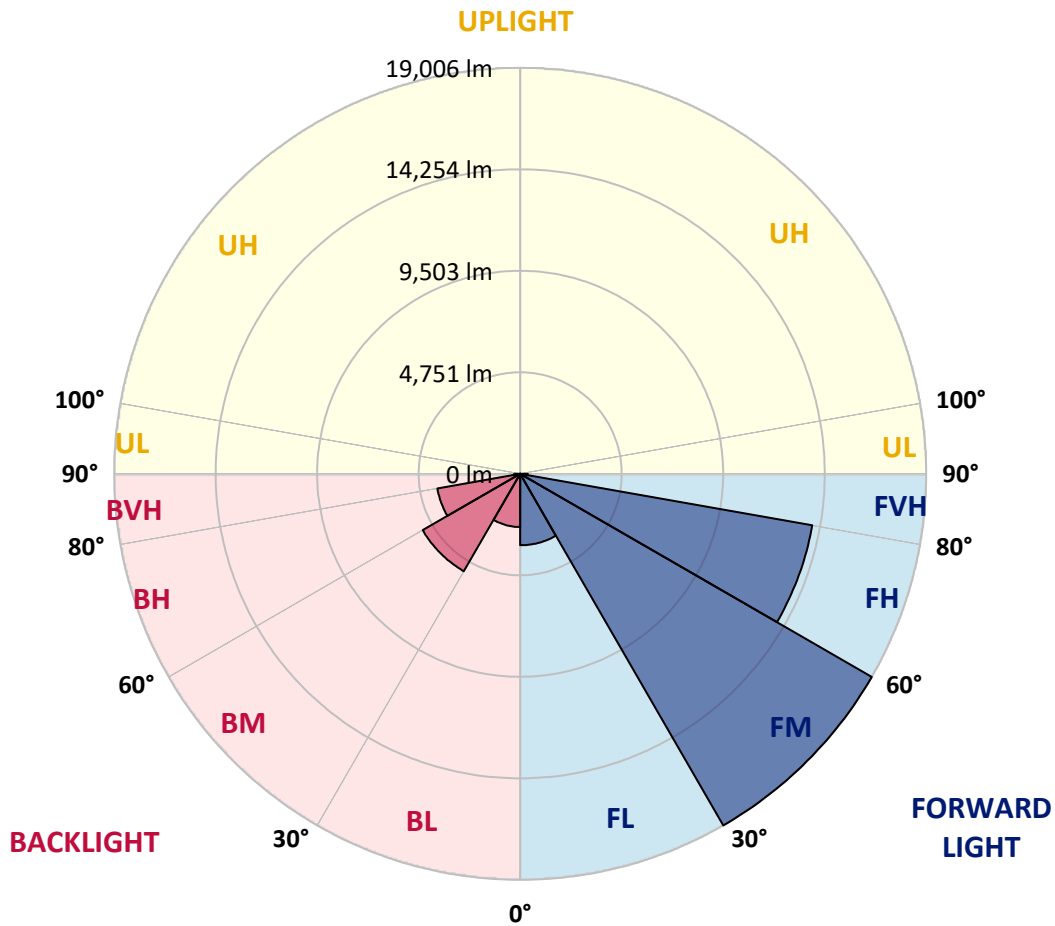


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3343.8 | 6.9 | | | |
| FM (30°-60°) | 19005.5 | 39.1 | | | |
| FH (60°-80°) | 13883.2 | 28.6 | | | G5 |
| FVH (80°-90°) | 355.5 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2490.4 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 5266.8 | 10.8 | B4/8500 | | |
| BH (60°-80°) | 3934.3 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 279.5 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 |
| 2.5° | 7289.4 | 7330.6 | 7317.8 | 7304.9 | 7304.9 | 7286.8 | 7284.3 | 7258.5 | 7237.9 | 7204.4 | 7196.7 |
| 5° | 7382.2 | 7426.0 | 7420.8 | 7431.1 | 7464.6 | 7472.4 | 7480.1 | 7464.6 | 7423.4 | 7382.2 | 7364.1 |
| 7.5° | 7299.7 | 7348.7 | 7364.1 | 7426.0 | 7529.0 | 7621.8 | 7691.4 | 7719.7 | 7681.1 | 7621.8 | 7593.5 |
| 10° | 7021.4 | 7075.6 | 7129.7 | 7276.5 | 7459.5 | 7678.5 | 7864.0 | 7974.8 | 7967.1 | 7910.4 | 7861.4 |
| 12.5° | 6457.2 | 6513.8 | 6629.8 | 6915.8 | 7250.8 | 7637.3 | 7982.5 | 8214.4 | 8294.3 | 8253.1 | 8168.1 |
| 15° | 6006.2 | 6055.2 | 6142.8 | 6436.5 | 6872.0 | 7459.5 | 8026.3 | 8477.3 | 8680.8 | 8657.6 | 8554.6 |
| 17.5° | 5993.3 | 6014.0 | 6068.1 | 6207.2 | 6542.2 | 7181.2 | 7980.0 | 8734.9 | 9124.0 | 9121.4 | 8992.6 |
| 20° | 6220.1 | 6227.8 | 6258.7 | 6287.1 | 6477.8 | 6969.9 | 7861.4 | 8948.8 | 9621.3 | 9621.3 | 9482.2 |
| 22.5° | 6534.5 | 6529.3 | 6560.2 | 6534.5 | 6627.2 | 6951.9 | 7786.7 | 9136.9 | 10175.3 | 10216.5 | 10041.3 |
| 25° | 7006.0 | 6980.2 | 6972.5 | 6913.2 | 6931.3 | 7119.4 | 7869.2 | 9350.8 | 10832.3 | 10917.4 | 10698.4 |
| 27.5° | 7634.7 | 7593.5 | 7565.1 | 7428.6 | 7382.2 | 7464.6 | 8121.7 | 9608.4 | 11564.1 | 11711.0 | 11432.7 |
| 30° | 8454.1 | 8379.4 | 8338.1 | 8101.1 | 7933.6 | 7946.5 | 8503.0 | 9951.1 | 12329.4 | 12566.5 | 12213.4 |
| 32.5° | 9572.4 | 9456.4 | 9345.6 | 8956.5 | 8649.9 | 8549.4 | 8995.2 | 10425.2 | 13159.1 | 13537.9 | 13084.4 |
| 35° | 10824.6 | 10731.9 | 10613.3 | 10013.0 | 9541.4 | 9309.5 | 9660.0 | 11087.4 | 14130.5 | 14730.9 | 14140.8 |
| 37.5° | 12030.5 | 11950.6 | 12007.3 | 11198.2 | 10590.1 | 10252.6 | 10530.9 | 11976.4 | 15328.6 | 16215.0 | 15465.2 |
| 40° | 13277.6 | 13215.8 | 13223.5 | 12450.5 | 11741.9 | 11363.1 | 11587.3 | 13092.1 | 16702.0 | 17980.0 | 17057.6 |
| 42.5° | 14632.9 | 14586.6 | 14432.0 | 13746.6 | 12950.4 | 12597.4 | 12803.5 | 14380.4 | 18175.9 | 19989.9 | 18804.6 |
| 45° | 16150.6 | 16122.3 | 15978.0 | 15192.1 | 14279.9 | 13883.1 | 14161.4 | 15802.8 | 19657.5 | 21881.1 | 20559.3 |
| 47.5° | 17462.1 | 17485.3 | 17467.3 | 16805.1 | 15859.4 | 15277.1 | 15609.5 | 17286.9 | 21036.0 | 23659.0 | 22241.9 |
| 50° | 18093.4 | 18214.5 | 18392.3 | 18186.2 | 17598.7 | 17006.1 | 17070.5 | 18719.6 | 22350.1 | 25326.2 | 23854.9 |
| 52.5° | 17763.6 | 17992.9 | 18477.3 | 18807.2 | 19033.9 | 18910.2 | 18737.6 | 20141.9 | 23586.9 | 26830.9 | 25380.3 |
| 55° | 16534.5 | 16856.6 | 17660.5 | 18456.7 | 19613.7 | 20512.9 | 20739.7 | 21718.8 | 24792.8 | 28155.3 | 26823.2 |
| 57.5° | 14295.4 | 14818.5 | 15539.9 | 17150.4 | 19098.3 | 21288.5 | 23074.1 | 23906.4 | 26070.8 | 29569.9 | 28333.1 |
| 60° | 10456.2 | 11157.0 | 12053.7 | 14450.0 | 17294.7 | 20873.7 | 25060.8 | 27266.4 | 27887.4 | 31402.0 | 30299.1 |
| 62.5° | 6691.6 | 7124.5 | 7949.0 | 10206.2 | 13476.0 | 18747.9 | 25668.8 | 31466.4 | 30966.5 | 34406.4 | 33246.9 |
| 65° | 4581.3 | 4859.6 | 5614.6 | 6882.3 | 8711.7 | 13955.3 | 24040.4 | 34615.1 | 35857.0 | 39168.1 | 38286.8 |
| 67.5° | 3329.1 | 3540.4 | 4184.5 | 5295.1 | 5676.4 | 8258.2 | 18655.1 | 34470.8 | 40611.0 | 44074.0 | 42703.3 |
| 70° | 2427.2 | 2576.7 | 3117.8 | 4184.5 | 4367.5 | 4594.2 | 11301.3 | 29302.0 | 40507.9 | 45377.8 | 43736.5 |
| 72.5° | 1798.5 | 1901.6 | 2264.9 | 3246.6 | 3535.2 | 3102.3 | 5594.0 | 21296.2 | 34808.3 | 41043.9 | 39727.2 |
| 75° | 1301.2 | 1378.5 | 1646.5 | 2483.9 | 2829.2 | 2362.8 | 2790.5 | 12445.3 | 24280.0 | 28871.7 | 29103.6 |
| 77.5° | 994.6 | 1053.9 | 1229.1 | 1819.1 | 2264.9 | 1772.8 | 1731.5 | 5725.4 | 11512.6 | 11569.3 | 12218.6 |
| 80° | 798.8 | 837.4 | 932.8 | 1280.6 | 1736.7 | 1327.0 | 1128.6 | 2311.3 | 3638.3 | 3079.1 | 3231.2 |
| 82.5° | 587.5 | 651.9 | 788.5 | 899.3 | 1242.0 | 914.7 | 688.0 | 1167.2 | 1383.7 | 1190.4 | 1200.7 |
| 85° | 335.0 | 378.8 | 476.7 | 644.2 | 793.6 | 559.1 | 394.2 | 517.9 | 644.2 | 528.2 | 471.5 |
| 87.5° | 118.5 | 154.6 | 167.5 | 252.5 | 345.3 | 231.9 | 152.0 | 149.4 | 211.3 | 157.2 | 131.4 |
| 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° | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 | 7119.4 |
| 2.5° | 7170.9 | 7158.0 | 7106.5 | 7036.9 | 6964.8 | 6895.2 | 6872.0 | 6823.0 | 6789.5 | 6771.5 | 6792.1 |
| 5° | 7315.2 | 7274.0 | 7152.9 | 6998.3 | 6835.9 | 6660.7 | 6537.0 | 6423.7 | 6341.2 | 6263.9 | 6294.8 |
| 7.5° | 7521.3 | 7449.2 | 7240.5 | 6969.9 | 6681.3 | 6390.2 | 6173.7 | 6008.8 | 5898.0 | 5825.9 | 5841.3 |
| 10° | 7760.9 | 7650.2 | 7330.6 | 6926.1 | 6480.3 | 6062.9 | 5807.8 | 5666.1 | 5596.5 | 5557.9 | 5568.2 |
| 12.5° | 8036.7 | 7879.5 | 7423.4 | 6825.6 | 6173.7 | 5697.0 | 5521.8 | 5480.6 | 5483.2 | 5485.7 | 5490.9 |
| 15° | 8376.8 | 8157.8 | 7498.1 | 6606.6 | 5774.3 | 5416.2 | 5385.3 | 5452.2 | 5521.8 | 5555.3 | 5552.7 |
| 17.5° | 8760.7 | 8451.5 | 7511.0 | 6245.9 | 5382.7 | 5235.8 | 5333.7 | 5478.0 | 5583.7 | 5630.0 | 5640.3 |
| 20° | 9173.0 | 8750.4 | 7418.3 | 5735.7 | 5060.6 | 5088.9 | 5264.1 | 5449.7 | 5565.6 | 5624.9 | 5640.3 |
| 22.5° | 9644.5 | 9069.9 | 7196.7 | 5199.7 | 4797.8 | 4929.2 | 5135.3 | 5315.7 | 5436.8 | 5496.1 | 5511.5 |
| 25° | 10183.0 | 9428.1 | 6848.8 | 4748.8 | 4571.0 | 4748.8 | 4954.9 | 5104.4 | 5202.3 | 5256.4 | 5271.9 |
| 27.5° | 10780.8 | 9801.7 | 6385.0 | 4390.7 | 4372.6 | 4563.3 | 4733.4 | 4849.3 | 4900.8 | 4942.1 | 4957.5 |
| 30° | 11381.2 | 10141.8 | 5823.3 | 4120.1 | 4200.0 | 4380.3 | 4501.5 | 4553.0 | 4568.4 | 4576.2 | 4594.2 |
| 32.5° | 12030.5 | 10435.5 | 5233.2 | 3895.9 | 4035.1 | 4202.6 | 4274.7 | 4297.9 | 4225.7 | 4176.8 | 4192.3 |
| 35° | 12816.4 | 10749.9 | 4656.1 | 3718.1 | 3872.7 | 4017.0 | 4040.2 | 4019.6 | 3934.6 | 3834.1 | 3839.2 |
| 37.5° | 13787.8 | 11141.5 | 4194.8 | 3591.9 | 3720.7 | 3816.1 | 3787.7 | 3782.6 | 3790.3 | 3671.8 | 3679.5 |
| 40° | 14978.2 | 11651.7 | 3857.3 | 3494.0 | 3597.0 | 3617.7 | 3537.8 | 3581.6 | 3620.2 | 3439.9 | 3445.0 |
| 42.5° | 16300.1 | 12267.6 | 3643.4 | 3427.0 | 3494.0 | 3445.0 | 3321.3 | 3370.3 | 3365.1 | 3128.1 | 3125.5 |
| 45° | 17647.7 | 12937.5 | 3568.7 | 3378.0 | 3398.6 | 3300.7 | 3164.2 | 3177.0 | 3068.8 | 2855.0 | 2862.7 |
| 47.5° | 18987.5 | 13656.4 | 3615.1 | 3336.8 | 3280.1 | 3169.3 | 3063.7 | 3007.0 | 2847.2 | 2687.5 | 2687.5 |
| 50° | 20301.6 | 14411.4 | 3785.1 | 3254.3 | 3117.8 | 3053.4 | 2976.1 | 2875.6 | 2705.5 | 2568.9 | 2558.6 |
| 52.5° | 21520.4 | 15171.5 | 3975.8 | 3117.8 | 2914.2 | 2952.9 | 2903.9 | 2788.0 | 2620.5 | 2481.3 | 2483.9 |
| 55° | 22674.8 | 15931.6 | 4050.5 | 2929.7 | 2723.5 | 2865.3 | 2836.9 | 2623.1 | 2422.1 | 2308.7 | 2298.4 |
| 57.5° | 23932.2 | 16846.3 | 3968.1 | 2690.1 | 2568.9 | 2764.8 | 2656.6 | 2419.5 | 2303.5 | 2218.5 | 2210.8 |
| 60° | 25674.0 | 18281.5 | 3790.3 | 2393.7 | 2422.1 | 2615.3 | 2429.8 | 2331.9 | 2205.6 | 2110.3 | 2105.1 |
| 62.5° | 28567.6 | 20958.7 | 3504.3 | 2100.0 | 2249.4 | 2393.7 | 2321.6 | 2223.7 | 2094.8 | 2002.1 | 2002.1 |
| 65° | 32844.9 | 24679.4 | 2965.8 | 1870.7 | 2056.2 | 2177.3 | 2205.6 | 2107.7 | 1973.7 | 1875.8 | 1881.0 |
| 67.5° | 36452.2 | 27013.9 | 2244.3 | 1680.0 | 1857.8 | 2002.1 | 2082.0 | 1986.6 | 1844.9 | 1749.6 | 1752.1 |
| 70° | 36253.8 | 25318.4 | 1713.5 | 1491.9 | 1682.6 | 1829.4 | 1932.5 | 1857.8 | 1705.8 | 1615.6 | 1623.3 |
| 72.5° | 32200.7 | 21180.3 | 1386.3 | 1301.2 | 1504.8 | 1649.1 | 1772.8 | 1716.1 | 1561.5 | 1473.9 | 1473.9 |
| 75° | 23656.5 | 15034.9 | 1108.0 | 1108.0 | 1283.2 | 1461.0 | 1597.5 | 1561.5 | 1419.7 | 1357.9 | 1339.9 |
| 77.5° | 9971.7 | 6307.7 | 868.3 | 919.9 | 1066.7 | 1254.8 | 1424.9 | 1437.8 | 1314.1 | 1391.4 | 1262.6 |
| 80° | 2651.4 | 1739.3 | 662.2 | 724.0 | 837.4 | 1035.8 | 1239.4 | 1234.2 | 1100.2 | 1028.1 | 955.9 |
| 82.5° | 1010.1 | 685.4 | 471.5 | 510.2 | 605.5 | 793.6 | 981.7 | 1012.6 | 878.6 | 760.1 | 760.1 |
| 85° | 389.1 | 293.7 | 291.2 | 306.6 | 353.0 | 525.6 | 742.1 | 767.8 | 662.2 | 561.7 | 579.8 |
| 87.5° | 100.5 | 87.6 | 108.2 | 103.1 | 162.3 | 280.9 | 425.2 | 440.6 | 404.5 | 234.5 | 335.0 |
| 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)