

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: P966808

Luminaire Tested: **NVN-SB4C-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4C-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26769.9 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

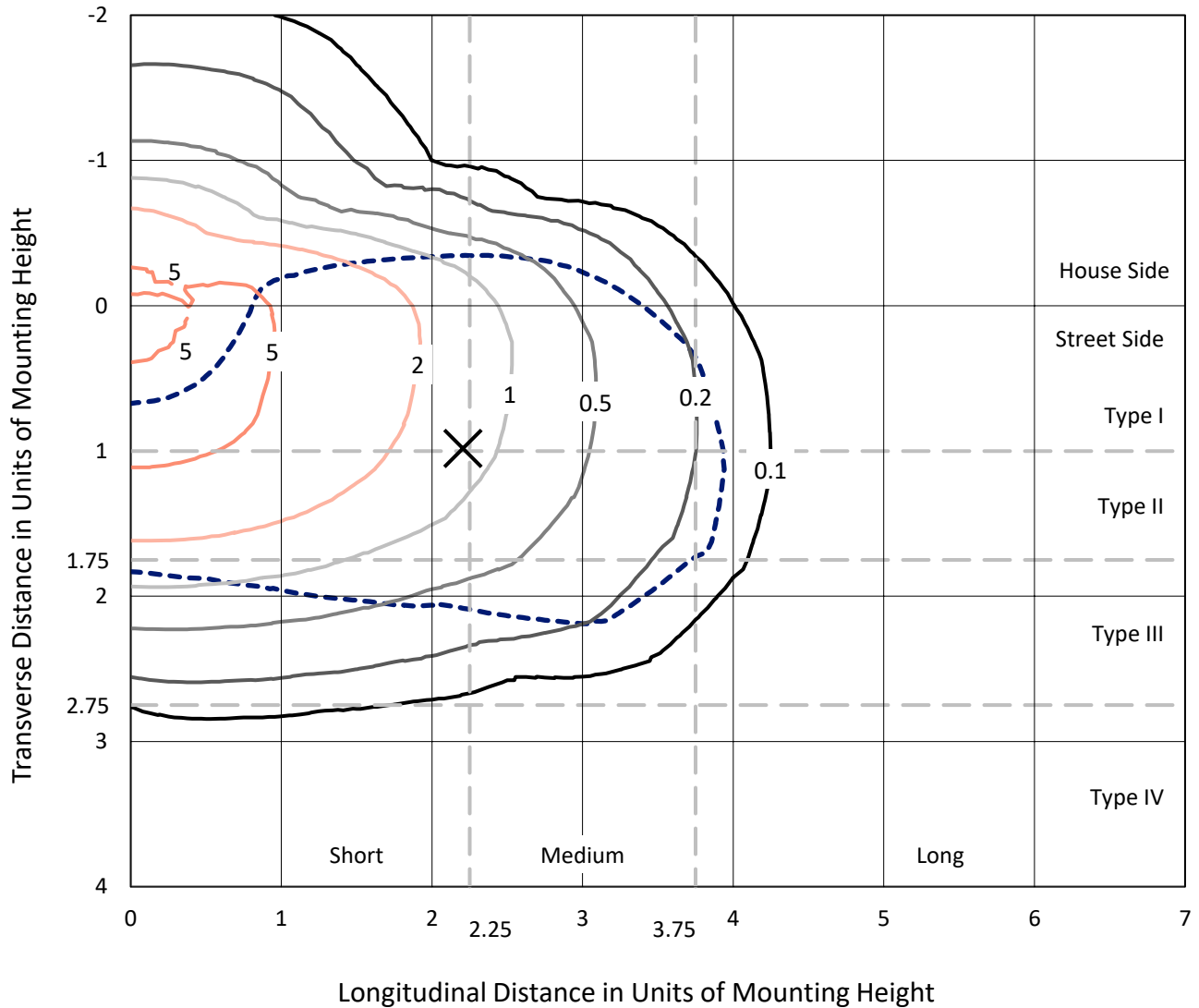
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

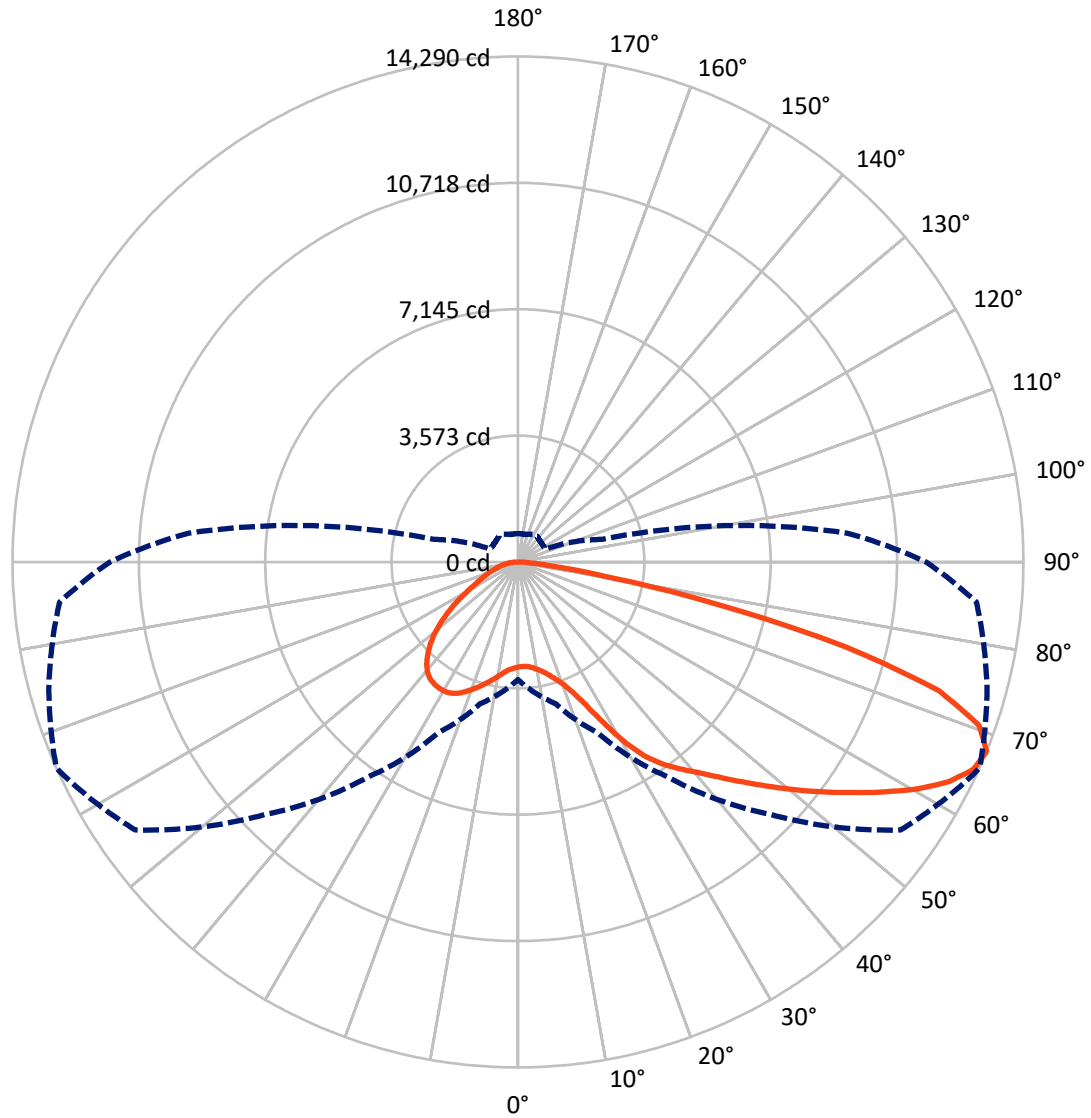
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6656.3 | 0.0 | 6656.3 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 20113.7 | 0.0 | 20113.7 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 26769.9 | 0.0 | 26769.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 294.4 | 1.1 |
| 10°-20° | 972.6 | 3.6 |
| 20°-30° | 1874.6 | 7.0 |
| 30°-40° | 3286.9 | 12.3 |
| 40°-50° | 4886.5 | 18.3 |
| 50°-60° | 6194.1 | 23.1 |
| 60°-70° | 6060.8 | 22.6 |
| 70°-80° | 2891.1 | 10.8 |
| 80°-90° | 309.0 | 1.2 |
| 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° | 26769.9 | 100.0 |
| 0°-180° | 26769.9 | 100.0 |

Coefficient of Utilization



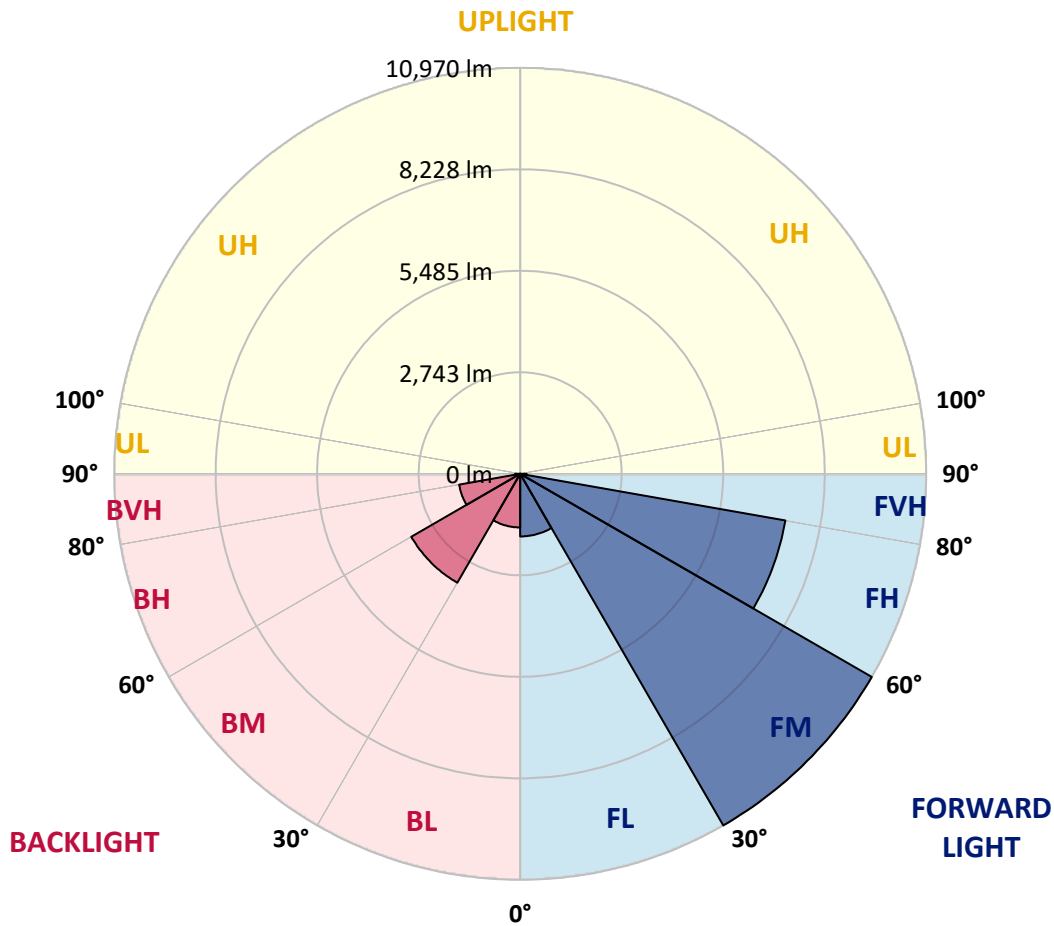
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1691.6 | 6.3 | | | |
| FM (30°-60°) | 10970.1 | 41.0 | | | |
| FH (60°-80°) | 7276.8 | 27.2 | | | G3/7500 |
| FVH (80°-90°) | 175.2 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1450.0 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3397.4 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 1675.1 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 133.8 | 0.5 | | | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 |
| 2.5° | 2938.2 | 2955.1 | 2950.9 | 2943.8 | 2942.4 | 2945.2 | 2949.4 | 2953.6 | 2952.3 | 2959.3 | 2970.6 |
| 5° | 2929.8 | 2946.7 | 2945.2 | 2945.2 | 2950.9 | 2962.1 | 2969.1 | 2976.2 | 2969.1 | 2977.6 | 2993.0 |
| 7.5° | 2935.4 | 2948.0 | 2953.6 | 2959.3 | 2973.3 | 2994.4 | 3011.3 | 3026.8 | 3018.3 | 3028.3 | 3047.9 |
| 10° | 3007.1 | 3017.0 | 3022.6 | 3022.6 | 3032.5 | 3056.3 | 3073.3 | 3101.3 | 3094.3 | 3109.7 | 3135.1 |
| 12.5° | 3137.9 | 3147.8 | 3147.8 | 3142.1 | 3149.2 | 3164.7 | 3170.2 | 3201.2 | 3188.6 | 3213.9 | 3239.2 |
| 15° | 3298.2 | 3317.9 | 3302.4 | 3292.6 | 3295.5 | 3311.0 | 3309.5 | 3333.4 | 3320.8 | 3341.9 | 3364.4 |
| 17.5° | 3475.5 | 3500.8 | 3475.5 | 3474.0 | 3468.5 | 3485.3 | 3486.7 | 3507.9 | 3485.3 | 3500.8 | 3516.3 |
| 20° | 3685.1 | 3720.2 | 3699.1 | 3706.2 | 3693.5 | 3700.6 | 3707.5 | 3738.5 | 3703.3 | 3714.6 | 3710.4 |
| 22.5° | 3980.4 | 4022.6 | 4000.1 | 4026.8 | 4018.4 | 4012.8 | 4011.3 | 4066.2 | 4011.3 | 4015.5 | 3974.7 |
| 25° | 4410.8 | 4461.4 | 4422.1 | 4458.6 | 4458.6 | 4476.9 | 4498.0 | 4568.3 | 4476.9 | 4450.2 | 4344.7 |
| 27.5° | 5046.6 | 5097.2 | 5019.8 | 5042.3 | 5035.3 | 5080.3 | 5057.8 | 5232.2 | 5133.7 | 5090.2 | 4877.8 |
| 30° | 5811.6 | 5901.7 | 5755.5 | 5749.8 | 5742.8 | 5814.5 | 5846.8 | 5962.2 | 5862.3 | 5818.7 | 5562.8 |
| 32.5° | 6638.7 | 6732.9 | 6558.6 | 6507.9 | 6481.2 | 6524.7 | 6498.1 | 6590.9 | 6522.0 | 6454.4 | 6138.0 |
| 35° | 7513.6 | 7606.4 | 7440.5 | 7342.0 | 7235.1 | 7143.6 | 7048.0 | 7071.9 | 7007.2 | 6904.5 | 6576.8 |
| 37.5° | 8340.6 | 8510.8 | 8335.0 | 8229.5 | 8032.6 | 7854.0 | 7586.7 | 7475.6 | 7415.2 | 7320.9 | 6990.3 |
| 40° | 9183.1 | 9280.1 | 9146.5 | 9056.5 | 8842.7 | 8562.8 | 8135.2 | 7900.4 | 7818.8 | 7727.4 | 7447.4 |
| 42.5° | 9803.4 | 9896.2 | 9824.4 | 9762.6 | 9595.2 | 9270.3 | 8717.5 | 8423.6 | 8305.5 | 8202.8 | 7965.1 |
| 45° | 10295.6 | 10364.6 | 10319.6 | 10342.0 | 10270.3 | 9955.3 | 9320.9 | 8984.7 | 8862.5 | 8737.2 | 8550.1 |
| 47.5° | 10493.9 | 10567.1 | 10638.8 | 10772.4 | 10894.8 | 10662.8 | 9969.4 | 9592.4 | 9463.0 | 9335.0 | 9150.8 |
| 50° | 10471.5 | 10546.0 | 10754.2 | 11038.2 | 11418.0 | 11340.7 | 10652.9 | 10239.3 | 10119.8 | 9973.6 | 9803.4 |
| 52.5° | 10291.4 | 10375.8 | 10643.1 | 11115.6 | 11720.5 | 11848.4 | 11349.1 | 10907.4 | 10795.0 | 10620.5 | 10450.4 |
| 55° | 9818.8 | 9869.4 | 10270.3 | 10939.8 | 11792.1 | 12202.8 | 12031.2 | 11619.2 | 11506.6 | 11263.3 | 11077.7 |
| 57.5° | 8942.6 | 9015.7 | 9599.4 | 10465.9 | 11612.1 | 12443.4 | 12630.5 | 12367.4 | 12259.1 | 11908.9 | 11714.8 |
| 60° | 7799.1 | 7915.9 | 8584.0 | 9669.7 | 11153.6 | 12442.0 | 13174.7 | 13103.0 | 13013.0 | 12544.7 | 12342.1 |
| 62.5° | 6505.1 | 6640.2 | 7282.9 | 8544.5 | 10351.9 | 12089.0 | 13515.1 | 13719.1 | 13672.7 | 13131.2 | 12872.4 |
| 65° | 4996.0 | 5088.7 | 5728.7 | 7088.8 | 9104.4 | 11330.9 | 13554.5 | 14139.7 | 14148.1 | 13577.0 | 13149.4 |
| 67.5° | 3326.4 | 3593.6 | 4149.2 | 5319.4 | 7433.4 | 10091.7 | 13208.6 | 14208.6 | 14290.1 | 13730.3 | 13010.2 |
| 70° | 1623.1 | 1974.8 | 2519.0 | 3457.2 | 5319.4 | 8191.5 | 12304.1 | 13643.2 | 13824.6 | 13283.1 | 12180.4 |
| 72.5° | 673.7 | 787.6 | 1084.4 | 1706.1 | 3053.6 | 5527.6 | 10486.9 | 12110.1 | 12446.2 | 11769.7 | 10240.8 |
| 75° | 454.3 | 492.3 | 620.2 | 874.8 | 1391.0 | 2725.8 | 7562.8 | 9029.7 | 9571.2 | 8889.1 | 7266.0 |
| 77.5° | 350.2 | 374.1 | 451.5 | 611.8 | 827.1 | 1030.9 | 4047.9 | 5441.8 | 5721.7 | 5296.9 | 3780.7 |
| 80° | 275.7 | 294.0 | 337.5 | 445.9 | 586.5 | 551.3 | 1379.8 | 2465.6 | 2627.4 | 2204.0 | 1215.2 |
| 82.5° | 239.1 | 246.1 | 241.9 | 302.4 | 389.6 | 322.1 | 452.8 | 910.0 | 1004.3 | 728.6 | 396.7 |
| 85° | 173.0 | 192.7 | 201.1 | 187.1 | 206.7 | 163.2 | 185.6 | 322.1 | 354.4 | 316.4 | 223.7 |
| 87.5° | 70.3 | 104.0 | 128.0 | 121.0 | 76.0 | 46.4 | 57.7 | 94.2 | 108.3 | 118.2 | 73.2 |
| 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° | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 | 2969.1 |
| 2.5° | 2972.0 | 2981.8 | 2988.8 | 2997.3 | 3002.9 | 3011.3 | 3028.3 | 3038.1 | 3039.4 | 3046.5 | 3045.1 |
| 5° | 2998.6 | 3012.8 | 3028.3 | 3050.7 | 3076.0 | 3097.1 | 3129.5 | 3152.0 | 3160.4 | 3167.5 | 3166.0 |
| 7.5° | 3056.3 | 3076.0 | 3104.2 | 3143.6 | 3180.2 | 3208.2 | 3247.6 | 3274.4 | 3301.1 | 3311.0 | 3312.3 |
| 10° | 3142.1 | 3170.2 | 3211.0 | 3264.5 | 3303.9 | 3340.5 | 3381.3 | 3403.7 | 3430.5 | 3441.7 | 3447.4 |
| 12.5° | 3249.0 | 3278.6 | 3332.0 | 3406.6 | 3443.2 | 3468.5 | 3482.5 | 3476.9 | 3482.5 | 3492.4 | 3495.1 |
| 15° | 3371.4 | 3403.7 | 3464.2 | 3544.4 | 3569.8 | 3547.2 | 3516.3 | 3488.2 | 3483.9 | 3486.7 | 3496.6 |
| 17.5° | 3516.3 | 3540.1 | 3610.5 | 3678.0 | 3659.8 | 3566.9 | 3499.4 | 3454.4 | 3431.9 | 3424.8 | 3434.7 |
| 20° | 3718.8 | 3718.8 | 3776.5 | 3818.6 | 3696.3 | 3538.8 | 3433.2 | 3360.2 | 3313.7 | 3294.0 | 3289.8 |
| 22.5° | 3964.9 | 3942.5 | 3979.0 | 3949.4 | 3689.3 | 3460.0 | 3313.7 | 3187.1 | 3116.8 | 3088.7 | 3084.4 |
| 25° | 4277.2 | 4250.5 | 4240.6 | 4057.8 | 3638.6 | 3334.8 | 3097.1 | 2943.8 | 2881.9 | 2866.4 | 2869.3 |
| 27.5° | 4748.4 | 4680.9 | 4552.8 | 4116.8 | 3545.8 | 3137.9 | 2844.0 | 2701.9 | 2666.7 | 2668.2 | 2672.4 |
| 30° | 5375.7 | 5240.6 | 4927.0 | 4126.6 | 3393.9 | 2859.4 | 2585.2 | 2483.9 | 2467.0 | 2474.0 | 2497.9 |
| 32.5° | 5956.6 | 5828.6 | 5309.6 | 4081.7 | 3160.4 | 2586.6 | 2353.1 | 2285.5 | 2260.2 | 2268.7 | 2279.9 |
| 35° | 6412.3 | 6377.1 | 5664.0 | 4018.4 | 2873.5 | 2330.5 | 2144.9 | 2087.2 | 2038.0 | 2026.7 | 2035.2 |
| 37.5° | 6842.7 | 6828.6 | 5929.8 | 3929.7 | 2589.4 | 2149.1 | 1977.5 | 1901.6 | 1829.8 | 1790.5 | 1791.9 |
| 40° | 7315.2 | 7301.2 | 6104.3 | 3793.3 | 2337.6 | 1991.6 | 1827.1 | 1727.2 | 1638.6 | 1566.8 | 1573.9 |
| 42.5° | 7846.9 | 7764.0 | 6187.2 | 3597.9 | 2123.8 | 1858.0 | 1704.7 | 1569.7 | 1452.9 | 1386.8 | 1391.0 |
| 45° | 8427.8 | 8240.7 | 6185.8 | 3348.9 | 1943.8 | 1735.6 | 1573.9 | 1382.6 | 1274.3 | 1212.4 | 1209.6 |
| 47.5° | 9043.9 | 8696.4 | 6109.8 | 3073.3 | 1769.4 | 1600.6 | 1371.3 | 1225.1 | 1153.3 | 1115.4 | 1106.9 |
| 50° | 9679.6 | 9122.6 | 5980.5 | 2756.7 | 1590.8 | 1447.3 | 1244.8 | 1144.9 | 1090.1 | 1054.9 | 1042.2 |
| 52.5° | 10277.4 | 9509.4 | 5824.4 | 2398.1 | 1409.3 | 1298.2 | 1188.5 | 1111.1 | 1053.5 | 1014.1 | 997.2 |
| 55° | 10832.9 | 9842.8 | 5603.6 | 2031.0 | 1261.7 | 1198.3 | 1161.7 | 1097.1 | 1030.9 | 984.5 | 966.3 |
| 57.5° | 11326.7 | 10059.3 | 5222.4 | 1686.4 | 1156.2 | 1129.4 | 1133.6 | 1073.2 | 997.2 | 957.9 | 932.5 |
| 60° | 11737.3 | 10218.3 | 4658.3 | 1367.1 | 1070.3 | 1061.9 | 1090.1 | 1028.2 | 939.5 | 894.5 | 874.8 |
| 62.5° | 11983.5 | 10215.5 | 3966.3 | 1119.6 | 997.2 | 1000.0 | 1032.4 | 971.9 | 881.9 | 839.7 | 827.1 |
| 65° | 11962.4 | 9965.2 | 3206.8 | 957.9 | 926.9 | 929.7 | 971.9 | 910.0 | 834.0 | 808.7 | 807.3 |
| 67.5° | 11539.0 | 9354.7 | 2460.0 | 852.4 | 849.5 | 862.2 | 911.4 | 867.8 | 804.5 | 801.8 | 806.0 |
| 70° | 10392.7 | 8087.5 | 1772.2 | 767.9 | 769.4 | 787.6 | 852.4 | 841.1 | 789.0 | 794.7 | 793.2 |
| 72.5° | 8333.6 | 6166.1 | 1189.9 | 679.4 | 680.7 | 710.3 | 796.1 | 820.0 | 773.6 | 848.1 | 859.4 |
| 75° | 5550.1 | 3845.4 | 765.2 | 585.1 | 586.5 | 624.5 | 746.8 | 779.2 | 731.3 | 845.3 | 852.4 |
| 77.5° | 2666.7 | 1728.6 | 554.1 | 492.3 | 492.3 | 527.5 | 645.5 | 697.6 | 623.1 | 656.8 | 602.0 |
| 80° | 921.3 | 649.8 | 436.0 | 396.7 | 388.2 | 412.2 | 544.3 | 604.8 | 537.3 | 495.1 | 464.1 |
| 82.5° | 362.8 | 337.5 | 350.2 | 308.0 | 279.9 | 295.4 | 423.3 | 499.3 | 395.2 | 357.2 | 355.9 |
| 85° | 208.2 | 219.5 | 247.5 | 204.0 | 161.7 | 181.4 | 310.9 | 358.6 | 298.2 | 263.0 | 268.7 |
| 87.5° | 56.3 | 77.4 | 113.9 | 105.5 | 73.2 | 77.4 | 147.7 | 198.3 | 171.6 | 132.2 | 136.4 |
| 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)