

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: P964150

Luminaire Tested: **NVN-SB3B-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-827-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12839.1 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

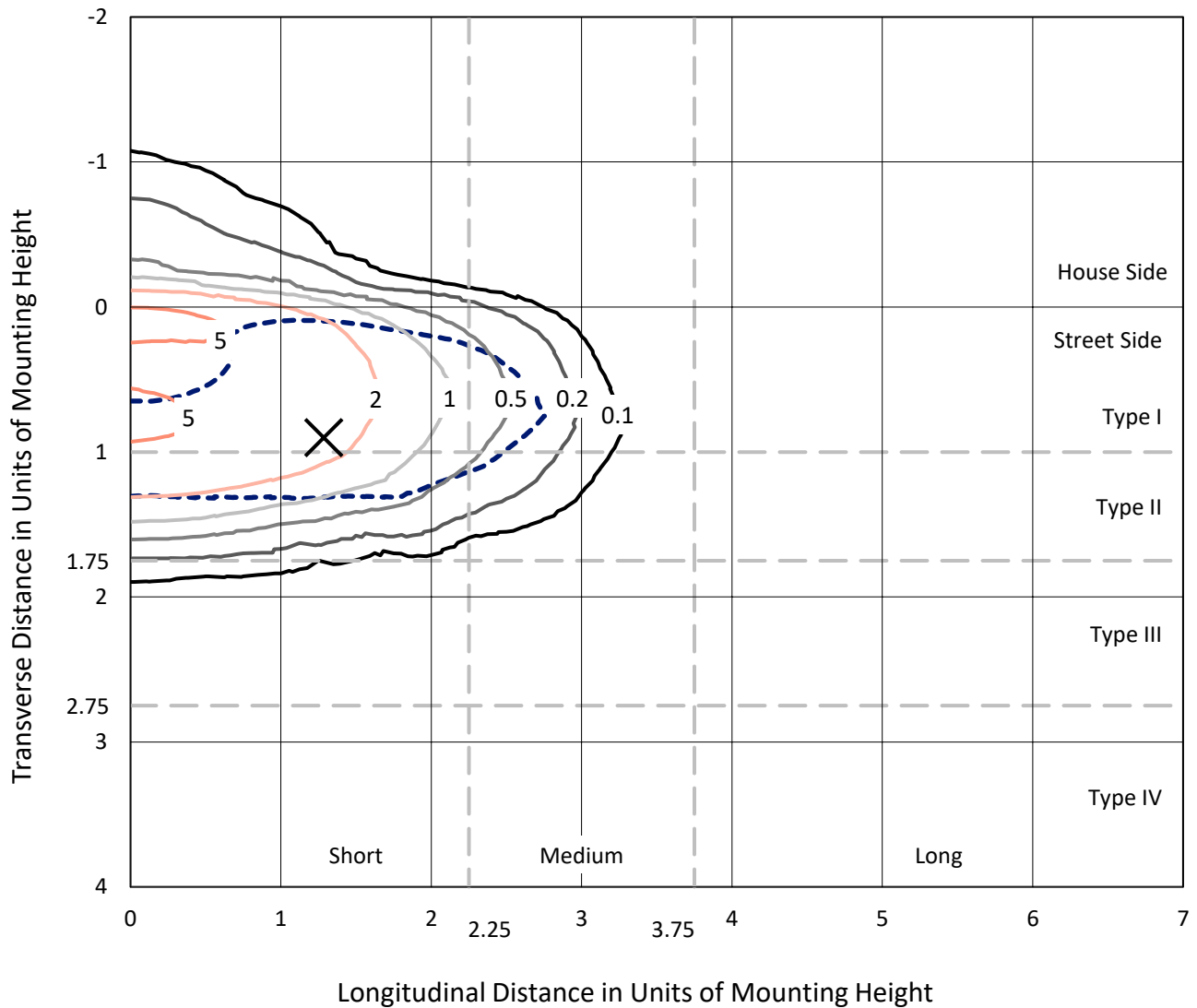
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

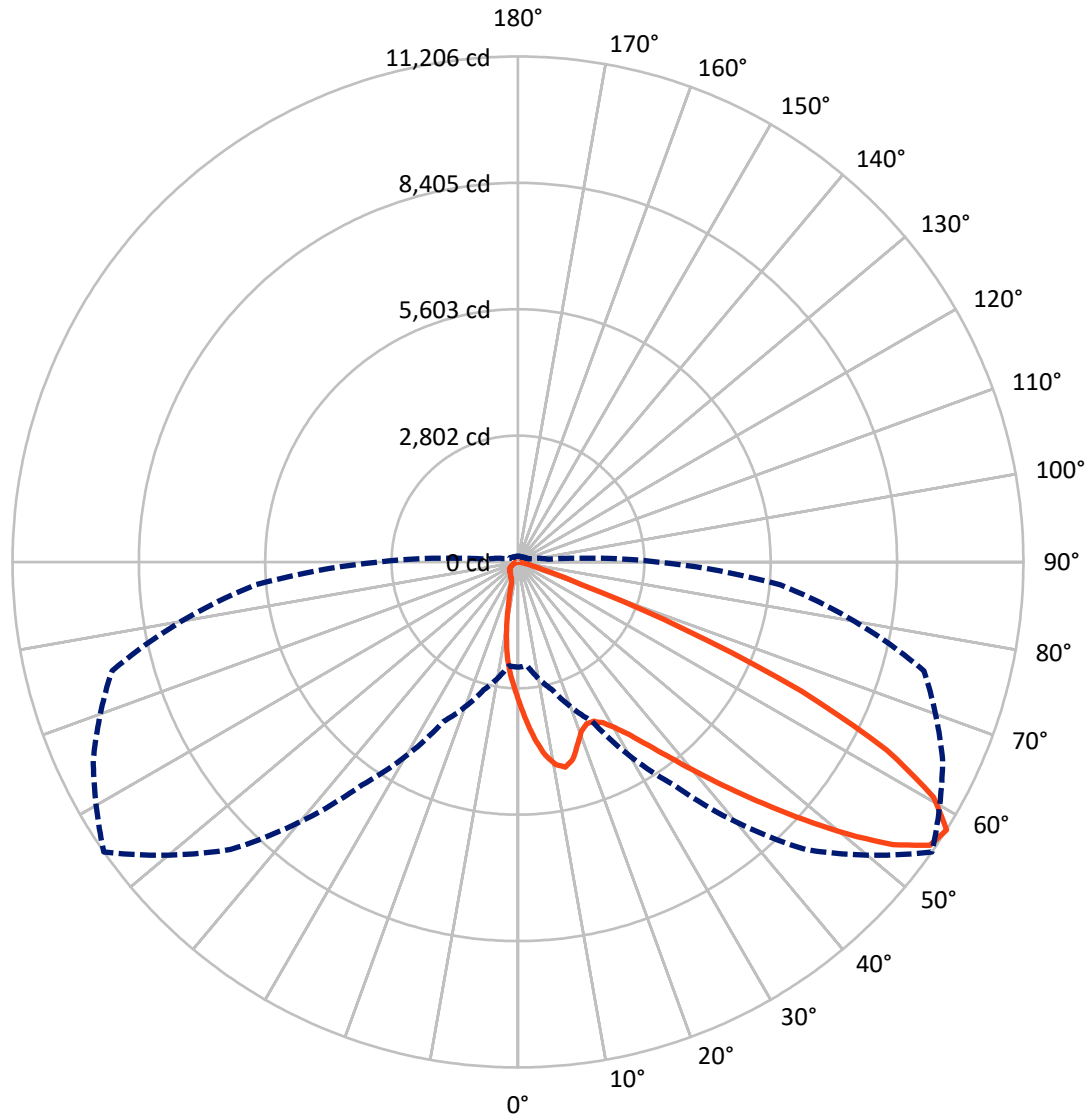
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1002.7 | 0.0 | 1002.7 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 11836.5 | 0.0 | 11836.5 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 12839.1 | 0.0 | 12839.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.9 | 2.2 |
| 10°-20° | 695.4 | 5.4 |
| 20°-30° | 1112.6 | 8.7 |
| 30°-40° | 1883.1 | 14.7 |
| 40°-50° | 3091.6 | 24.1 |
| 50°-60° | 3397.9 | 26.5 |
| 60°-70° | 1949.0 | 15.2 |
| 70°-80° | 398.2 | 3.1 |
| 80°-90° | 23.5 | 0.2 |
| 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° | 12839.1 | 100.0 |
| 0°-180° | 12839.1 | 100.0 |

Coefficient of Utilization



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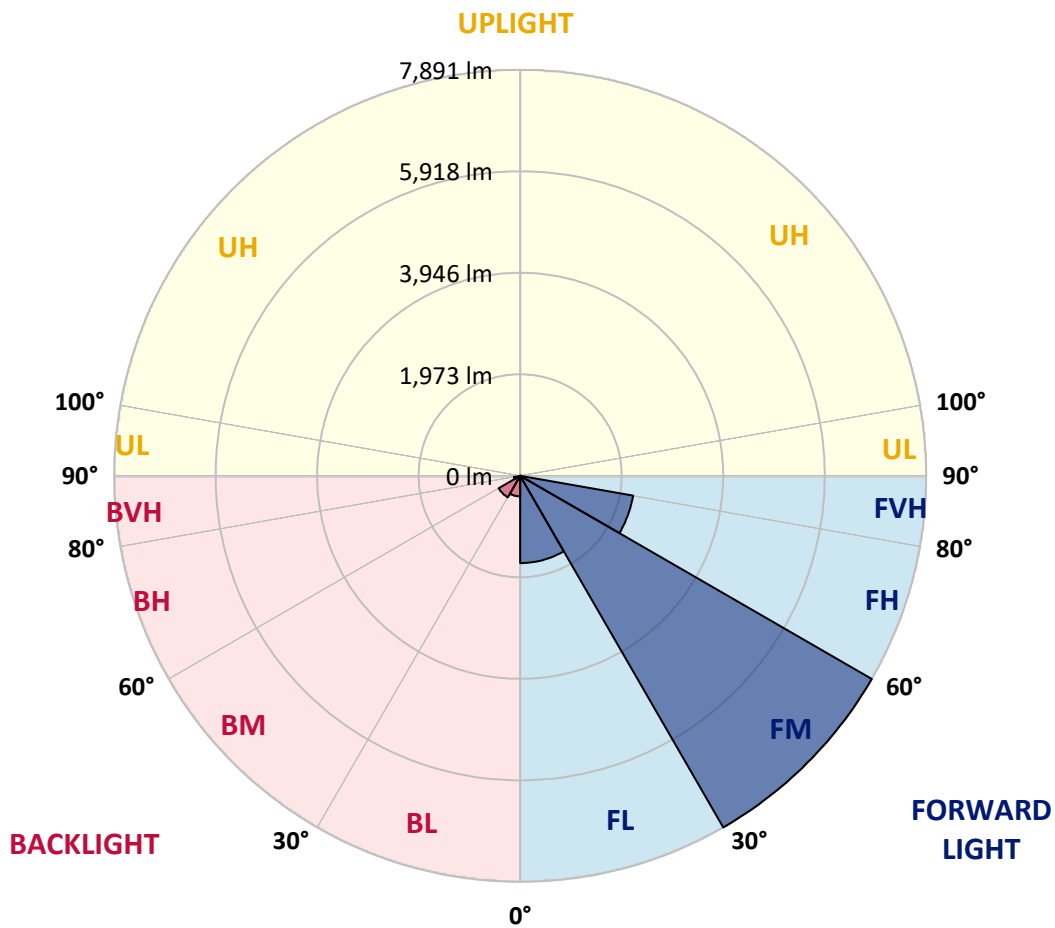
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1695.5 | 13.2 | | | |
| FM (30°-60°) | 7891.0 | 61.5 | | | |
| FH (60°-80°) | 2228.0 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 21.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 400.3 | 3.1 | B1/500 | | |
| BM (30°-60°) | 481.6 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 119.3 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 |
| 2.5° | 3838.9 | 3790.7 | 3783.5 | 3773.9 | 3682.1 | 3613.2 | 3513.5 | 3404.2 | 3281.5 | 3156.5 | 3101.0 |
| 5° | 4435.1 | 4397.0 | 4389.9 | 4345.6 | 4241.0 | 4123.9 | 3946.6 | 3722.5 | 3493.7 | 3224.5 | 3108.9 |
| 7.5° | 4550.6 | 4543.5 | 4576.0 | 4574.4 | 4560.1 | 4467.5 | 4317.9 | 4051.1 | 3707.5 | 3308.5 | 3129.5 |
| 10° | 4035.2 | 4053.5 | 4150.0 | 4234.8 | 4463.6 | 4596.5 | 4564.1 | 4344.0 | 3927.6 | 3404.2 | 3152.5 |
| 12.5° | 3565.8 | 3544.3 | 3613.2 | 3709.1 | 3975.1 | 4370.9 | 4666.2 | 4588.6 | 4179.3 | 3512.7 | 3186.5 |
| 15° | 3271.3 | 3262.6 | 3301.3 | 3345.7 | 3548.3 | 3947.4 | 4547.4 | 4787.4 | 4421.5 | 3641.0 | 3238.0 |
| 17.5° | 3177.1 | 3169.9 | 3181.8 | 3192.9 | 3324.3 | 3633.0 | 4264.8 | 4909.2 | 4653.5 | 3787.5 | 3295.0 |
| 20° | 3253.9 | 3244.3 | 3242.8 | 3234.1 | 3288.7 | 3499.2 | 4009.1 | 4918.0 | 4861.8 | 3920.4 | 3344.1 |
| 22.5° | 3477.9 | 3466.8 | 3428.0 | 3393.2 | 3398.0 | 3517.5 | 3895.1 | 4830.9 | 5018.5 | 4044.8 | 3375.0 |
| 25° | 3884.0 | 3865.8 | 3785.0 | 3667.9 | 3593.4 | 3644.2 | 3912.5 | 4716.1 | 5168.2 | 4142.1 | 3360.0 |
| 27.5° | 4392.3 | 4368.5 | 4264.8 | 4090.7 | 3920.4 | 3858.7 | 4038.4 | 4636.9 | 5292.5 | 4216.5 | 3327.5 |
| 30° | 4890.3 | 4859.4 | 4757.2 | 4621.8 | 4373.3 | 4178.5 | 4265.6 | 4671.7 | 5440.5 | 4294.1 | 3284.7 |
| 32.5° | 5427.8 | 5398.6 | 5263.2 | 5095.3 | 4889.5 | 4627.5 | 4576.7 | 4842.0 | 5621.8 | 4402.6 | 3254.7 |
| 35° | 6107.9 | 6062.0 | 5869.6 | 5640.8 | 5422.2 | 5157.1 | 4997.9 | 5135.7 | 5863.2 | 4568.0 | 3271.3 |
| 37.5° | 6882.2 | 6820.4 | 6613.0 | 6297.1 | 6012.0 | 5715.2 | 5510.9 | 5539.4 | 6217.1 | 4789.7 | 3322.7 |
| 40° | 7612.1 | 7555.9 | 7364.3 | 7066.7 | 6708.7 | 6348.5 | 6130.8 | 6067.5 | 6705.7 | 5059.7 | 3412.9 |
| 42.5° | 8049.9 | 7999.2 | 7918.4 | 7792.6 | 7491.0 | 7123.6 | 6848.9 | 6711.9 | 7283.5 | 5382.7 | 3523.0 |
| 45° | 8074.4 | 8030.1 | 8138.6 | 8285.0 | 8225.6 | 7981.1 | 7646.1 | 7395.2 | 7863.8 | 5685.9 | 3637.0 |
| 47.5° | 7681.8 | 7651.6 | 7981.1 | 8492.4 | 8747.3 | 8850.3 | 8541.5 | 8021.3 | 8342.8 | 5903.6 | 3683.7 |
| 50° | 6611.4 | 6600.3 | 7278.0 | 8216.9 | 8946.1 | 9611.9 | 9486.0 | 8604.1 | 8714.1 | 6016.0 | 3639.4 |
| 52.5° | 5732.6 | 5692.2 | 6087.3 | 7335.0 | 8657.2 | 10012.5 | 10409.1 | 9175.7 | 8973.8 | 6037.5 | 3535.6 |
| 55° | 4347.9 | 4312.3 | 4808.0 | 5859.3 | 7725.3 | 9869.9 | 11084.5 | 9765.5 | 9159.8 | 5982.8 | 3349.6 |
| 57.5° | 2332.3 | 2310.1 | 2936.4 | 3899.8 | 6039.0 | 9015.0 | 11206.3 | 10389.3 | 9316.6 | 5837.9 | 3089.1 |
| 60° | 908.0 | 904.2 | 1138.5 | 1892.2 | 3670.2 | 7334.2 | 10591.2 | 10763.8 | 9414.7 | 5659.7 | 2871.4 |
| 62.5° | 549.4 | 561.3 | 599.3 | 849.5 | 1621.3 | 4556.1 | 9173.3 | 10337.8 | 9480.4 | 5496.7 | 2691.8 |
| 65° | 454.4 | 455.2 | 460.0 | 583.4 | 776.6 | 1906.4 | 6905.9 | 8936.6 | 9318.2 | 5206.2 | 2436.8 |
| 67.5° | 389.5 | 396.7 | 414.8 | 463.1 | 547.9 | 836.0 | 3975.9 | 6922.5 | 8330.9 | 4530.1 | 2039.3 |
| 70° | 307.2 | 316.7 | 339.7 | 380.8 | 422.8 | 523.3 | 1469.3 | 4606.0 | 6364.4 | 3414.6 | 1542.2 |
| 72.5° | 258.9 | 258.1 | 270.0 | 309.5 | 335.7 | 368.2 | 565.3 | 2581.0 | 3698.8 | 1630.1 | 763.2 |
| 75° | 200.3 | 208.2 | 223.2 | 258.9 | 274.7 | 266.8 | 306.4 | 942.9 | 1325.3 | 494.0 | 259.6 |
| 77.5° | 156.7 | 163.1 | 176.5 | 211.4 | 227.2 | 189.2 | 176.5 | 337.2 | 425.9 | 177.3 | 117.2 |
| 80° | 70.4 | 76.0 | 120.3 | 156.0 | 185.2 | 130.6 | 95.8 | 172.6 | 189.2 | 80.8 | 59.3 |
| 82.5° | 12.7 | 21.4 | 70.4 | 82.3 | 95.0 | 84.7 | 49.9 | 89.5 | 92.7 | 32.5 | 20.6 |
| 85° | 0.8 | 1.5 | 24.5 | 30.1 | 38.0 | 27.7 | 15.1 | 35.7 | 30.9 | 11.1 | 7.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 4.0 | 4.7 | 6.4 | 4.7 | 4.0 | 3.2 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 | 3094.0 |
| 2.5° | 3044.0 | 2931.6 | 2822.3 | 2733.0 | 2680.7 | 2592.0 | 2533.4 | 2523.9 | 2499.4 | 2520.8 |
| 5° | 2985.4 | 2784.4 | 2581.0 | 2398.8 | 2249.2 | 2056.0 | 1911.9 | 1850.9 | 1798.0 | 1816.1 |
| 7.5° | 2957.7 | 2640.3 | 2323.6 | 2012.5 | 1692.6 | 1383.9 | 1154.3 | 1058.5 | 985.6 | 996.0 |
| 10° | 2920.5 | 2490.6 | 1994.2 | 1519.3 | 1090.9 | 786.2 | 627.8 | 569.2 | 536.8 | 537.5 |
| 12.5° | 2892.0 | 2311.7 | 1611.9 | 1030.0 | 664.2 | 501.9 | 452.8 | 438.6 | 429.1 | 429.9 |
| 15° | 2877.8 | 2101.1 | 1234.2 | 686.4 | 475.0 | 425.2 | 413.3 | 406.9 | 400.6 | 399.9 |
| 17.5° | 2854.0 | 1866.8 | 903.3 | 501.1 | 415.6 | 398.2 | 388.0 | 380.8 | 372.9 | 371.3 |
| 20° | 2818.4 | 1600.8 | 660.3 | 423.5 | 389.5 | 376.1 | 361.8 | 352.3 | 342.8 | 341.2 |
| 22.5° | 2752.7 | 1319.8 | 507.5 | 391.9 | 370.5 | 355.5 | 338.0 | 327.0 | 317.4 | 315.9 |
| 25° | 2630.8 | 1056.2 | 427.5 | 372.1 | 353.9 | 335.7 | 316.7 | 301.7 | 292.9 | 291.3 |
| 27.5° | 2476.4 | 829.7 | 388.0 | 353.9 | 332.5 | 315.9 | 294.5 | 280.2 | 272.3 | 270.8 |
| 30° | 2294.4 | 638.9 | 365.0 | 333.3 | 307.2 | 292.9 | 273.9 | 262.1 | 257.3 | 257.3 |
| 32.5° | 2098.0 | 510.7 | 355.5 | 312.7 | 285.1 | 269.2 | 254.1 | 249.4 | 247.8 | 247.0 |
| 35° | 1913.5 | 443.3 | 350.8 | 296.1 | 265.2 | 250.2 | 243.8 | 244.7 | 247.8 | 247.8 |
| 37.5° | 1749.7 | 422.0 | 348.3 | 284.2 | 247.8 | 234.3 | 238.3 | 245.4 | 242.2 | 242.2 |
| 40° | 1601.6 | 424.4 | 346.8 | 275.5 | 233.6 | 225.6 | 233.6 | 228.0 | 220.1 | 219.2 |
| 42.5° | 1488.4 | 444.1 | 343.6 | 268.3 | 224.9 | 219.2 | 216.2 | 207.5 | 206.6 | 208.2 |
| 45° | 1406.0 | 461.6 | 342.8 | 265.2 | 215.4 | 205.0 | 201.1 | 192.4 | 208.2 | 212.2 |
| 47.5° | 1308.6 | 461.6 | 342.8 | 254.1 | 199.5 | 195.6 | 189.2 | 179.7 | 195.6 | 199.5 |
| 50° | 1182.7 | 432.2 | 329.3 | 241.5 | 186.9 | 184.5 | 173.4 | 161.5 | 158.4 | 160.7 |
| 52.5° | 1023.7 | 379.2 | 295.3 | 224.1 | 174.1 | 169.4 | 156.0 | 147.3 | 144.8 | 144.8 |
| 55° | 842.3 | 317.4 | 249.4 | 198.7 | 160.7 | 152.0 | 142.5 | 138.6 | 136.1 | 134.6 |
| 57.5° | 684.8 | 260.5 | 200.3 | 176.5 | 148.0 | 136.9 | 133.8 | 129.0 | 125.0 | 122.7 |
| 60° | 562.1 | 205.0 | 165.4 | 156.7 | 135.4 | 125.0 | 124.3 | 118.0 | 107.6 | 106.1 |
| 62.5° | 433.9 | 150.5 | 139.3 | 136.1 | 122.7 | 114.0 | 112.4 | 99.7 | 83.9 | 80.8 |
| 65° | 306.4 | 117.2 | 112.4 | 119.5 | 109.3 | 101.4 | 97.4 | 78.4 | 61.7 | 59.3 |
| 67.5° | 215.4 | 98.2 | 88.7 | 104.6 | 95.0 | 84.7 | 82.3 | 66.5 | 51.5 | 49.9 |
| 70° | 153.5 | 79.9 | 72.9 | 89.5 | 76.0 | 74.4 | 69.7 | 55.5 | 41.9 | 40.4 |
| 72.5° | 108.4 | 61.0 | 56.2 | 77.6 | 52.3 | 64.2 | 57.0 | 42.7 | 31.7 | 30.1 |
| 75° | 79.9 | 43.6 | 39.6 | 45.1 | 38.0 | 48.3 | 40.4 | 28.5 | 19.8 | 19.0 |
| 77.5° | 58.6 | 27.7 | 23.8 | 22.1 | 22.1 | 30.1 | 22.1 | 11.9 | 8.7 | 7.9 |
| 80° | 41.2 | 12.7 | 11.1 | 9.5 | 8.7 | 7.2 | 3.2 | 1.5 | 0.8 | 0.8 |
| 82.5° | 24.5 | 5.5 | 5.5 | 4.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.5 | 2.4 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.8 | 0.8 | 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 |

(END OF REPORT)