

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: P965733

Luminaire Tested: **NVN-SB4A-827-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4A-827-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

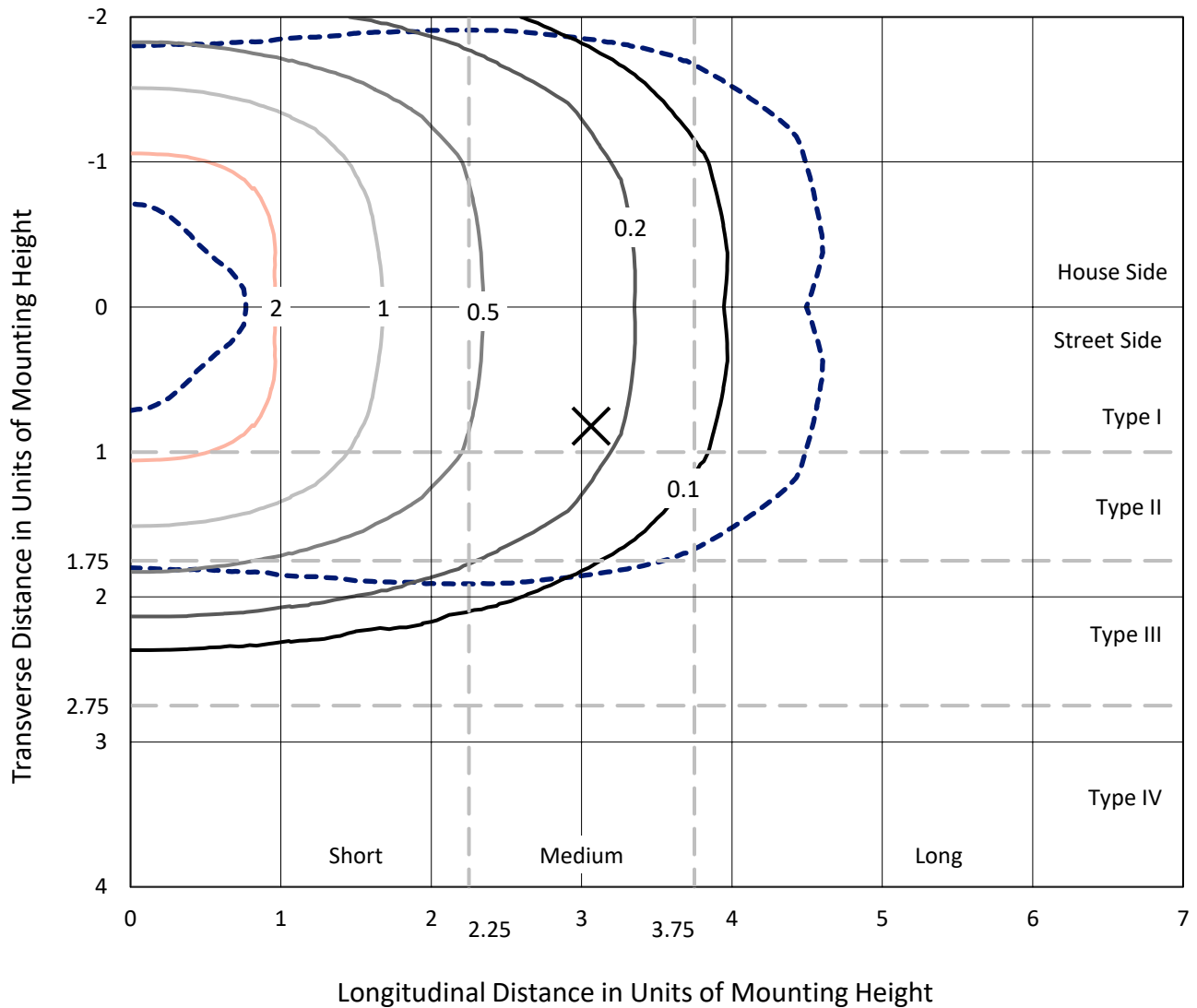
Lumens per Lamp: N/A  
Luminaire Lumens: 16500.5 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

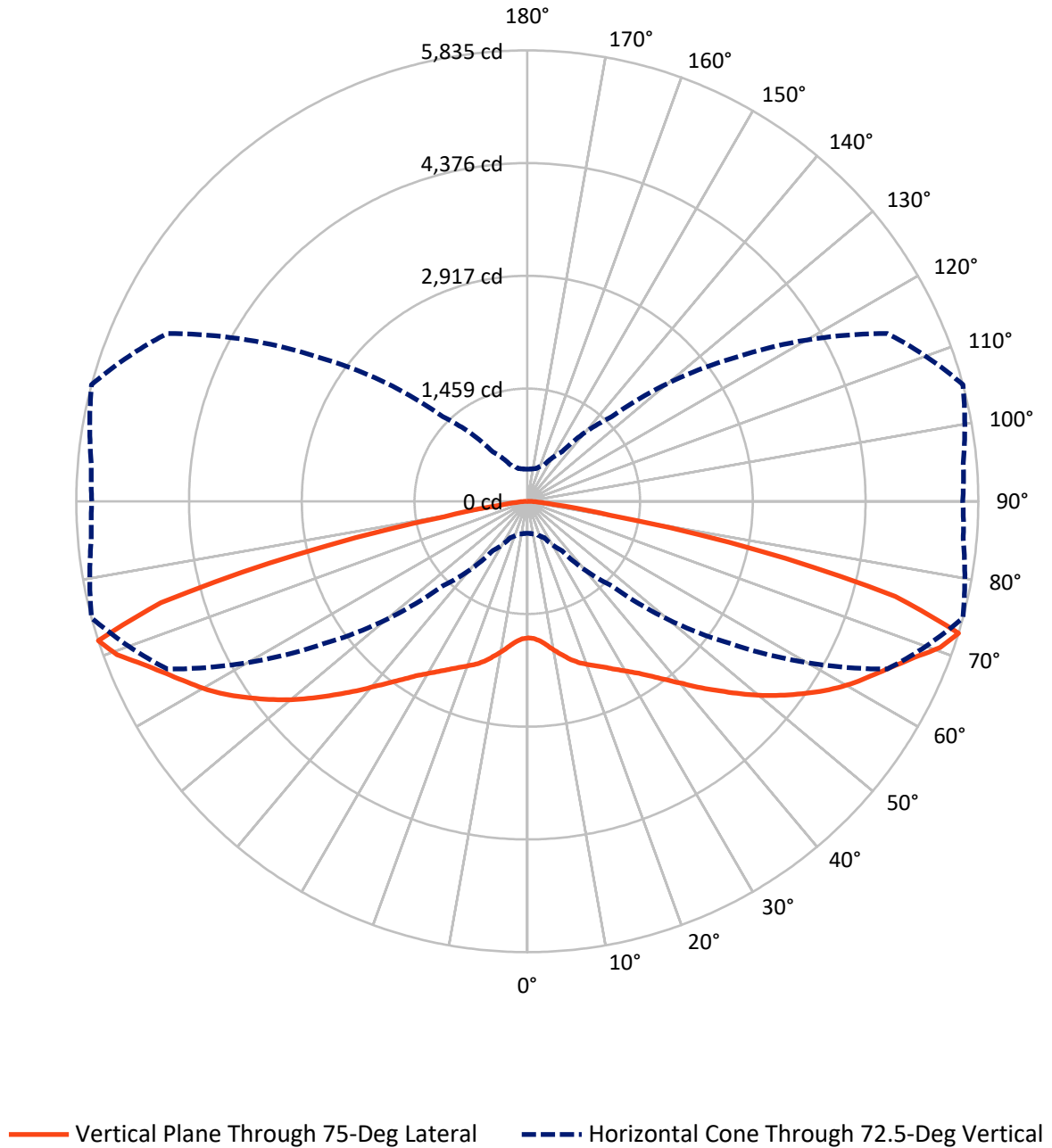
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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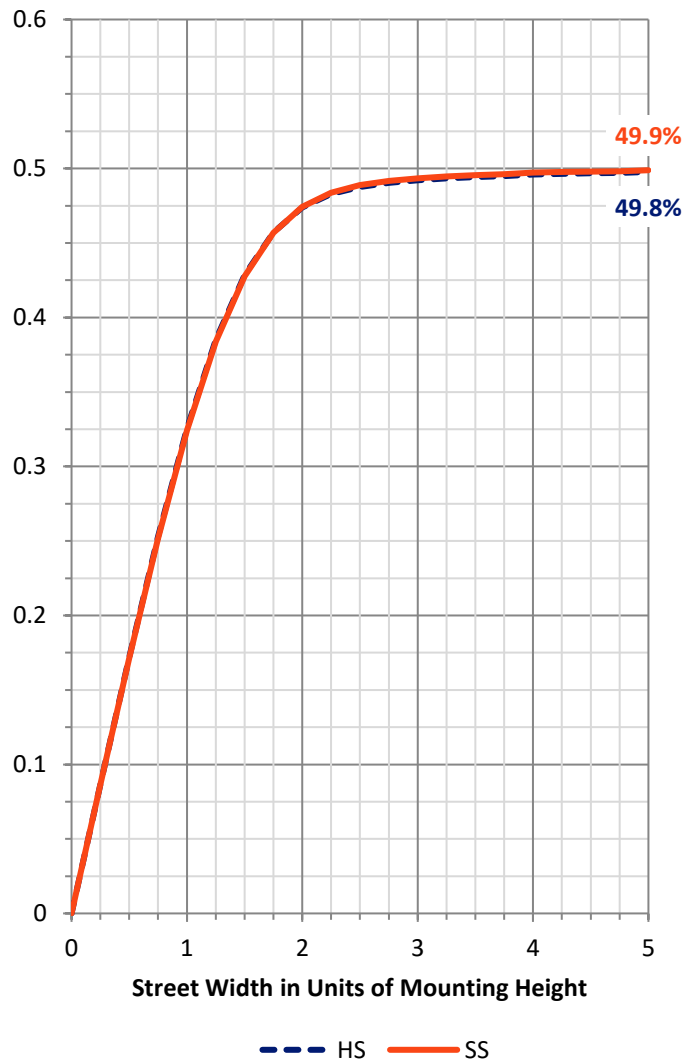
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8250.2   | 0.0    | 8250.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8250.2   | 0.0    | 8250.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16500.5  | 0.0    | 16500.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 173.1   | 1.0       |
| 10°-20°   | 571.1   | 3.5       |
| 20°-30°   | 1103.4  | 6.7       |
| 30°-40°   | 1863.2  | 11.3      |
| 40°-50°   | 2954.9  | 17.9      |
| 50°-60°   | 3956.2  | 24.0      |
| 60°-70°   | 3765.1  | 22.8      |
| 70°-80°   | 1964.7  | 11.9      |
| 80°-90°   | 148.7   | 0.9       |
| 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°    | 16500.5 | 100.0     |
| 0°-180°   | 16500.5 | 100.0     |

**Coefficient of Utilization**



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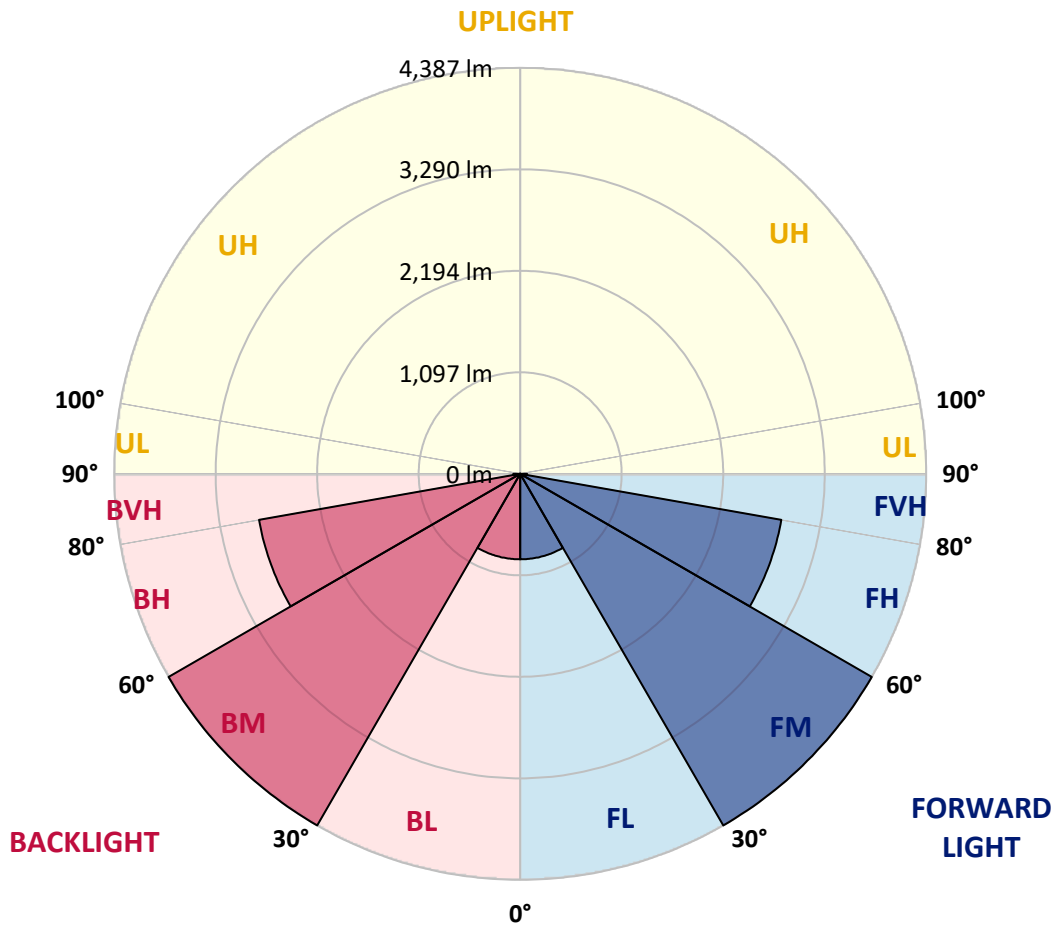
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 923.8  | 5.6       |                         |      |         |
| FM (30°-60°)   | 4387.2 | 26.6      |                         |      |         |
| FH (60°-80°)   | 2864.9 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 74.4   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 923.8  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 4387.2 | 26.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 2864.9 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 74.4   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1767.5 | 1767.5 | 1767.5 | 1767.5 | 1767.5 | 1767.5 | 1767.5 | 1767.5 | 1767.5 | 1767.5 | 1767.5 |
| 2.5°  | 1767.5 | 1765.8 | 1767.5 | 1769.2 | 1768.3 | 1768.3 | 1772.5 | 1775.1 | 1780.1 | 1779.3 | 1778.5 |
| 5°    | 1755.7 | 1754.9 | 1761.6 | 1769.2 | 1775.1 | 1785.1 | 1797.8 | 1807.1 | 1818.9 | 1821.4 | 1821.4 |
| 7.5°  | 1749.8 | 1747.3 | 1759.1 | 1772.5 | 1791.1 | 1816.4 | 1840.8 | 1866.0 | 1886.3 | 1893.0 | 1894.7 |
| 10°   | 1754.0 | 1754.9 | 1770.9 | 1796.1 | 1825.6 | 1861.0 | 1895.5 | 1938.5 | 1967.2 | 1973.9 | 1980.6 |
| 12.5° | 1773.4 | 1771.7 | 1798.7 | 1839.1 | 1879.5 | 1924.2 | 1964.6 | 2011.8 | 2043.0 | 2059.0 | 2065.7 |
| 15°   | 1808.8 | 1805.4 | 1843.4 | 1903.1 | 1962.1 | 2014.3 | 2047.2 | 2091.8 | 2128.1 | 2148.3 | 2155.9 |
| 17.5° | 1850.9 | 1852.6 | 1902.3 | 1979.8 | 2057.3 | 2116.3 | 2147.5 | 2170.2 | 2198.0 | 2215.6 | 2224.1 |
| 20°   | 1925.1 | 1928.4 | 1984.0 | 2075.8 | 2164.3 | 2231.7 | 2256.9 | 2248.5 | 2256.1 | 2269.6 | 2279.7 |
| 22.5° | 2024.5 | 2026.1 | 2088.4 | 2187.9 | 2280.5 | 2354.7 | 2371.5 | 2337.0 | 2316.0 | 2325.2 | 2332.0 |
| 25°   | 2139.9 | 2150.9 | 2213.2 | 2315.1 | 2410.3 | 2481.0 | 2488.6 | 2436.4 | 2384.1 | 2386.7 | 2390.9 |
| 27.5° | 2280.5 | 2290.7 | 2353.8 | 2455.0 | 2551.8 | 2613.3 | 2612.5 | 2542.5 | 2465.9 | 2446.5 | 2452.4 |
| 30°   | 2433.0 | 2444.0 | 2508.9 | 2613.3 | 2703.4 | 2757.4 | 2745.6 | 2662.2 | 2552.7 | 2516.5 | 2520.7 |
| 32.5° | 2614.2 | 2620.9 | 2686.6 | 2791.1 | 2874.5 | 2917.5 | 2893.1 | 2790.3 | 2653.7 | 2612.5 | 2622.6 |
| 35°   | 2833.2 | 2843.4 | 2892.1 | 2990.7 | 3064.0 | 3099.4 | 3058.2 | 2936.8 | 2783.5 | 2737.2 | 2743.9 |
| 37.5° | 3083.4 | 3076.6 | 3132.3 | 3219.9 | 3280.5 | 3302.4 | 3246.1 | 3102.0 | 2931.8 | 2877.0 | 2887.1 |
| 40°   | 3344.6 | 3341.2 | 3401.9 | 3486.1 | 3519.0 | 3532.5 | 3449.0 | 3291.5 | 3102.8 | 3043.8 | 3063.2 |
| 42.5° | 3581.4 | 3578.8 | 3660.5 | 3754.1 | 3793.6 | 3778.5 | 3673.2 | 3492.9 | 3300.8 | 3233.4 | 3250.3 |
| 45°   | 3770.9 | 3767.5 | 3867.7 | 3999.1 | 4076.7 | 4051.4 | 3909.9 | 3715.3 | 3501.3 | 3431.4 | 3447.4 |
| 47.5° | 3916.6 | 3918.3 | 4026.1 | 4188.8 | 4324.4 | 4333.6 | 4151.7 | 3941.9 | 3722.0 | 3642.8 | 3666.4 |
| 50°   | 4021.9 | 4027.0 | 4142.4 | 4322.7 | 4508.1 | 4589.7 | 4398.5 | 4174.4 | 3950.3 | 3861.1 | 3888.0 |
| 52.5° | 4048.0 | 4057.4 | 4196.3 | 4407.8 | 4626.0 | 4781.8 | 4649.6 | 4397.7 | 4166.8 | 4081.8 | 4103.7 |
| 55°   | 3909.0 | 3927.6 | 4103.7 | 4401.0 | 4698.4 | 4908.2 | 4870.3 | 4624.3 | 4385.1 | 4297.4 | 4321.8 |
| 57.5° | 3589.8 | 3615.9 | 3821.4 | 4209.8 | 4682.4 | 4995.0 | 5041.4 | 4841.7 | 4603.3 | 4519.0 | 4538.4 |
| 60°   | 3142.4 | 3173.6 | 3370.7 | 3794.4 | 4456.6 | 5027.0 | 5161.8 | 5053.1 | 4803.8 | 4722.1 | 4739.7 |
| 62.5° | 2467.6 | 2508.0 | 2743.9 | 3240.9 | 3979.8 | 4877.9 | 5264.6 | 5244.3 | 4984.1 | 4882.1 | 4893.9 |
| 65°   | 1583.0 | 1626.0 | 1874.5 | 2461.6 | 3343.8 | 4421.2 | 5296.6 | 5430.6 | 5174.4 | 5032.0 | 5049.8 |
| 67.5° | 954.5  | 973.9  | 1096.9 | 1492.0 | 2444.0 | 3732.9 | 5025.3 | 5637.0 | 5396.8 | 5219.9 | 5233.4 |
| 70°   | 610.8  | 621.8  | 695.1  | 876.2  | 1381.6 | 2723.7 | 4353.1 | 5675.7 | 5666.4 | 5412.8 | 5411.2 |
| 72.5° | 414.5  | 417.9  | 437.3  | 519.0  | 781.8  | 1547.6 | 3210.6 | 5138.2 | 5834.9 | 5661.4 | 5634.4 |
| 75°   | 303.3  | 321.8  | 353.0  | 367.4  | 444.0  | 773.4  | 1840.0 | 3609.9 | 4917.4 | 4993.3 | 4809.6 |
| 77.5° | 225.8  | 226.6  | 269.6  | 286.5  | 316.7  | 411.9  | 778.5  | 2015.2 | 3053.1 | 3205.6 | 2859.3 |
| 80°   | 191.3  | 181.1  | 180.3  | 230.8  | 238.4  | 257.0  | 348.0  | 695.9  | 1093.5 | 663.0  | 501.2  |
| 82.5° | 159.2  | 148.3  | 134.0  | 180.3  | 162.6  | 157.5  | 150.8  | 283.1  | 348.0  | 171.0  | 145.8  |
| 85°   | 111.2  | 106.2  | 101.1  | 118.0  | 92.7   | 79.2   | 72.5   | 132.2  | 146.6  | 72.5   | 64.1   |
| 87.5° | 48.0   | 49.7   | 50.5   | 52.3   | 38.7   | 27.8   | 27.8   | 37.1   | 37.1   | 28.6   | 21.0   |
| 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)