

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: P964152

Luminaire Tested: **NVN-SB3B-827-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964152  
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-SB3B-827-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

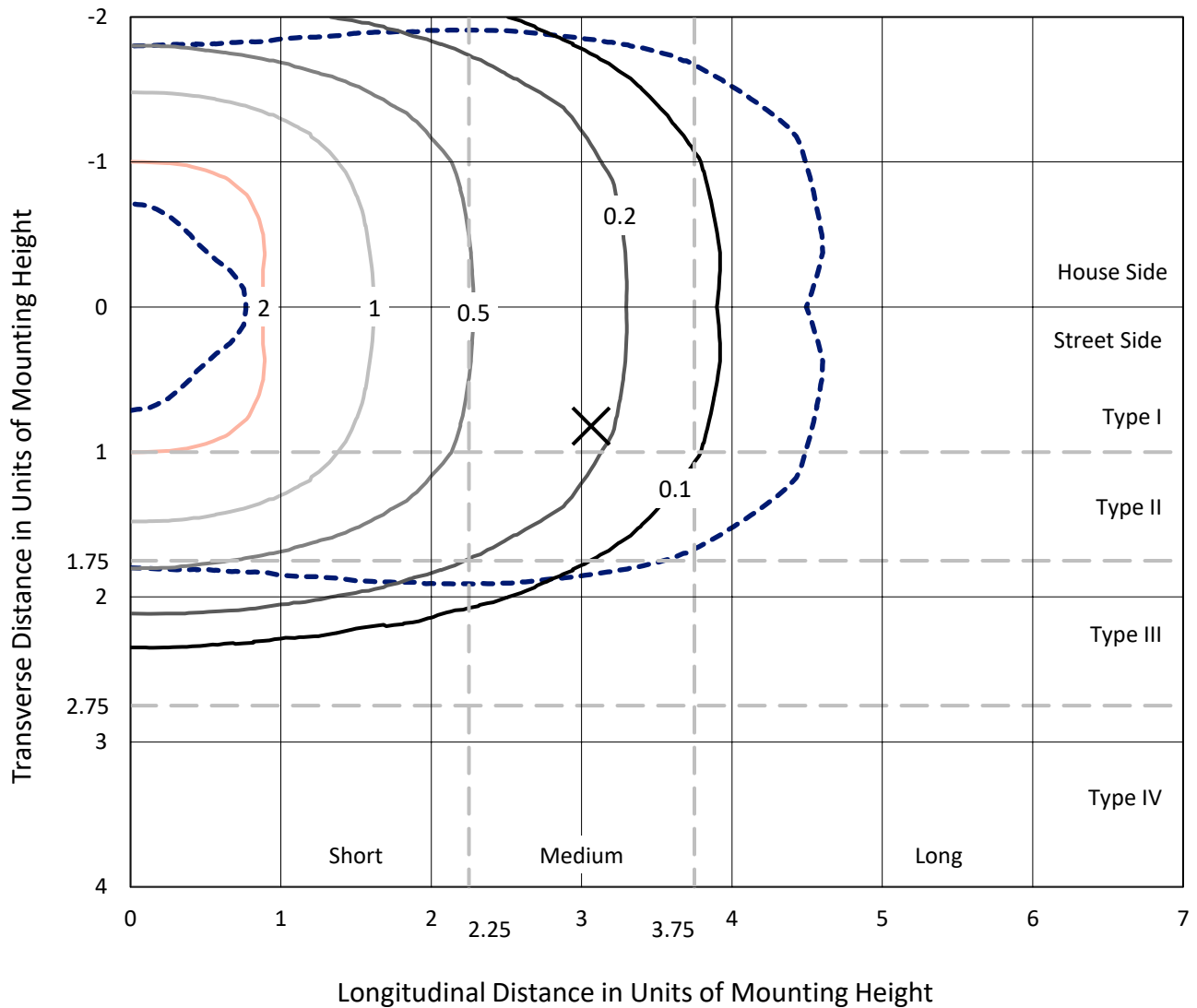
Lumens per Lamp: N/A  
Luminaire Lumens: 15507.2 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): 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

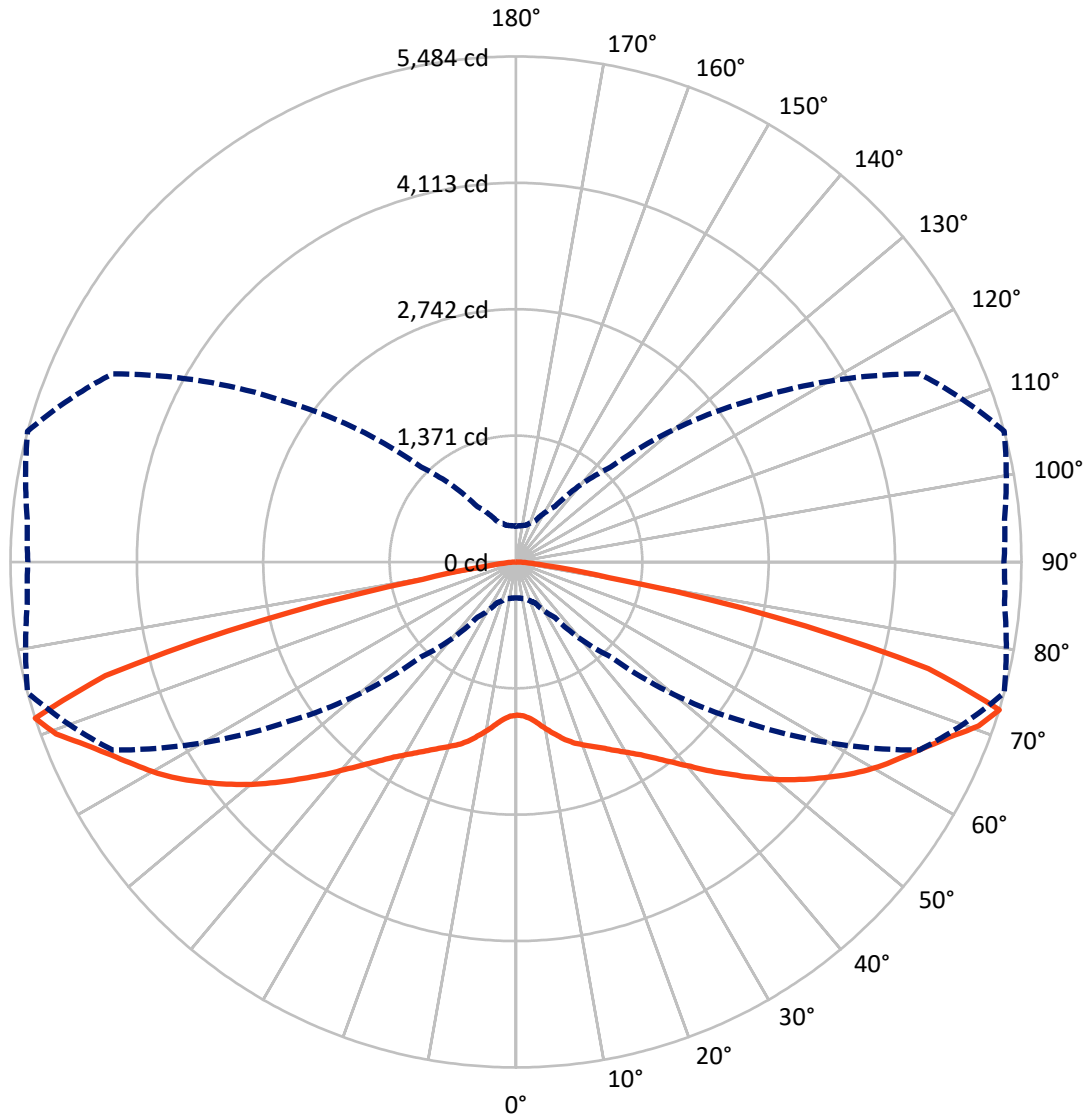
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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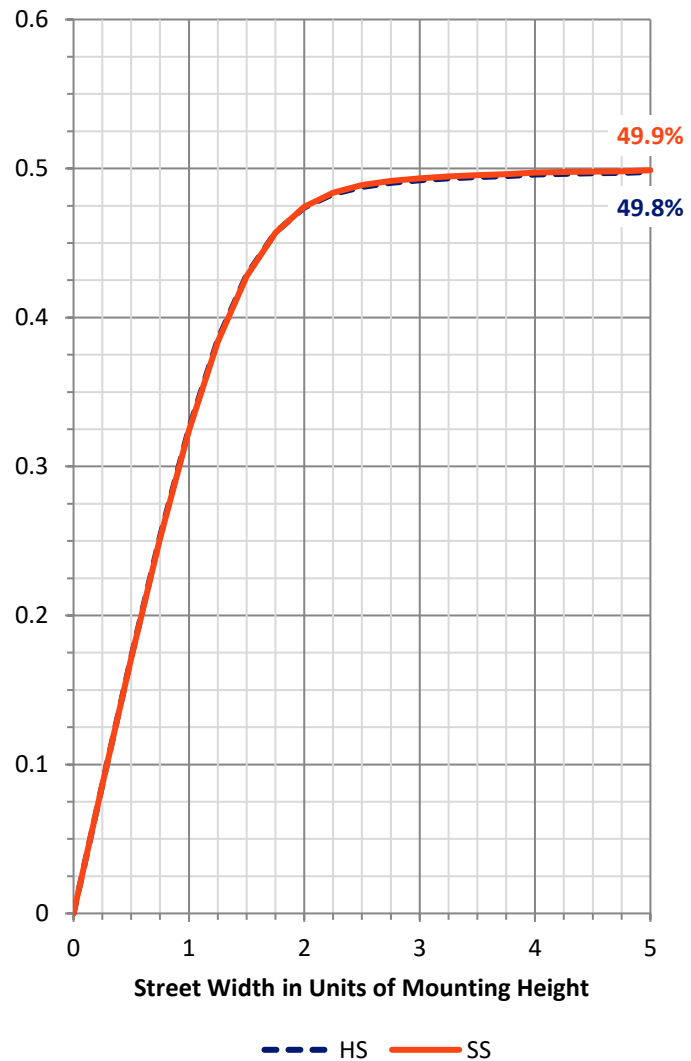
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7753.6   | 0.0    | 7753.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7753.6   | 0.0    | 7753.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15507.2  | 0.0    | 15507.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 162.7   | 1.0       |
| 10°-20°   | 536.7   | 3.5       |
| 20°-30°   | 1037.0  | 6.7       |
| 30°-40°   | 1751.1  | 11.3      |
| 40°-50°   | 2777.0  | 17.9      |
| 50°-60°   | 3718.1  | 24.0      |
| 60°-70°   | 3538.4  | 22.8      |
| 70°-80°   | 1846.4  | 11.9      |
| 80°-90°   | 139.8   | 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°    | 15507.2 | 100.0     |
| 0°-180°   | 15507.2 | 100.0     |

**Coefficient of Utilization**



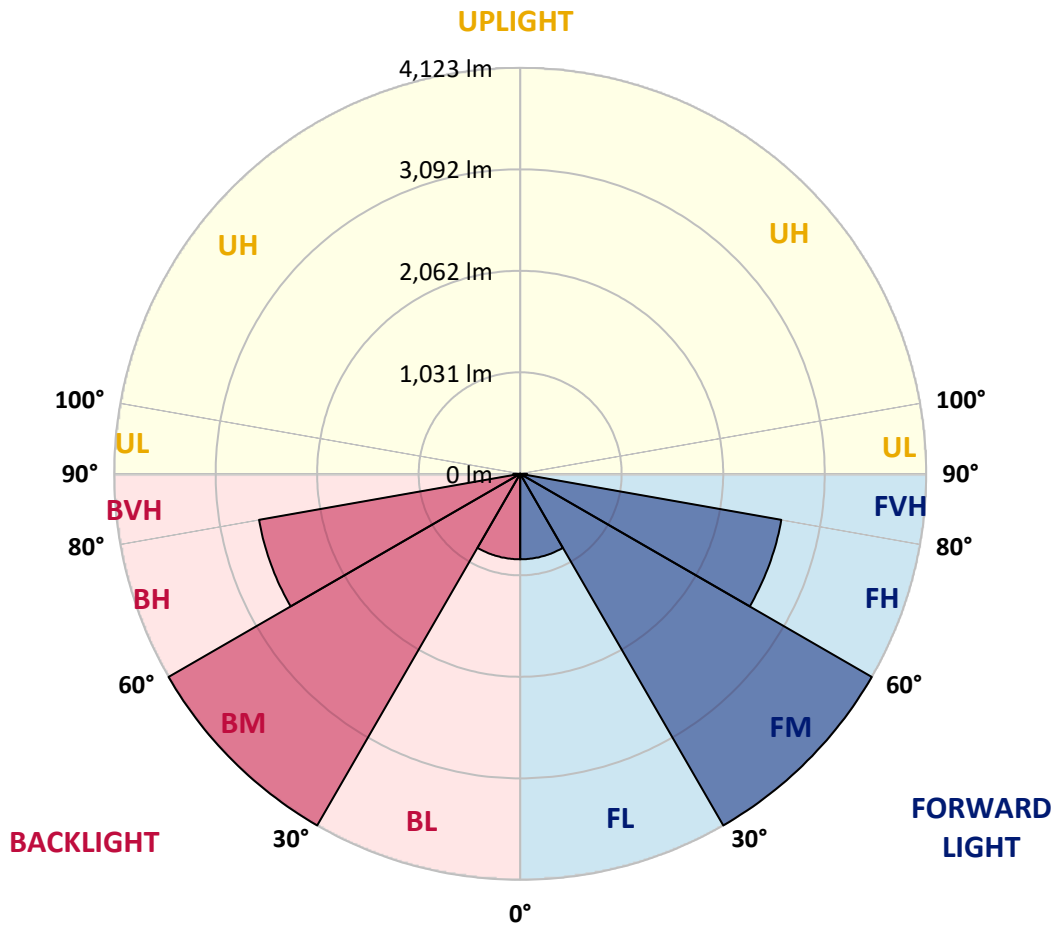
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 868.2  | 5.6       |                         |      |         |
| FM (30°-60°)   | 4123.1 | 26.6      |                         |      |         |
| FH (60°-80°)   | 2692.4 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 69.9   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 868.2  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 4123.1 | 26.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 2692.4 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 69.9   | 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°    | 1661.1 | 1661.1 | 1661.1 | 1661.1 | 1661.1 | 1661.1 | 1661.1 | 1661.1 | 1661.1 | 1661.1 | 1661.1 |
| 2.5°  | 1661.1 | 1659.5 | 1661.1 | 1662.7 | 1661.9 | 1661.9 | 1665.8 | 1668.2 | 1673.0 | 1672.2 | 1671.4 |
| 5°    | 1650.0 | 1649.2 | 1655.6 | 1662.7 | 1668.2 | 1677.7 | 1689.6 | 1698.3 | 1709.4 | 1711.7 | 1711.7 |
| 7.5°  | 1644.5 | 1642.0 | 1653.2 | 1665.8 | 1683.3 | 1707.0 | 1730.0 | 1753.8 | 1772.7 | 1779.1 | 1780.6 |
| 10°   | 1648.4 | 1649.2 | 1664.3 | 1688.0 | 1715.7 | 1749.0 | 1781.4 | 1821.8 | 1848.8 | 1855.0 | 1861.4 |
| 12.5° | 1666.6 | 1665.0 | 1690.4 | 1728.4 | 1766.4 | 1808.4 | 1846.3 | 1890.7 | 1920.0 | 1935.1 | 1941.4 |
| 15°   | 1699.9 | 1696.7 | 1732.4 | 1788.6 | 1844.0 | 1893.1 | 1923.9 | 1966.0 | 2000.0 | 2018.9 | 2026.1 |
| 17.5° | 1739.5 | 1741.1 | 1787.8 | 1860.6 | 1933.5 | 1988.9 | 2018.2 | 2039.5 | 2065.7 | 2082.3 | 2090.3 |
| 20°   | 1809.1 | 1812.3 | 1864.6 | 1950.9 | 2034.0 | 2097.4 | 2121.1 | 2113.2 | 2120.3 | 2133.0 | 2142.5 |
| 22.5° | 1902.6 | 1904.1 | 1962.8 | 2056.1 | 2143.3 | 2213.0 | 2228.8 | 2196.4 | 2176.5 | 2185.2 | 2191.6 |
| 25°   | 2011.0 | 2021.3 | 2079.9 | 2175.8 | 2265.2 | 2331.7 | 2338.8 | 2289.7 | 2240.6 | 2243.0 | 2247.0 |
| 27.5° | 2143.3 | 2152.8 | 2212.2 | 2307.2 | 2398.2 | 2456.0 | 2455.2 | 2389.5 | 2317.4 | 2299.3 | 2304.8 |
| 30°   | 2286.6 | 2296.9 | 2357.8 | 2456.0 | 2540.8 | 2591.4 | 2580.3 | 2501.9 | 2399.0 | 2365.0 | 2369.0 |
| 32.5° | 2456.8 | 2463.2 | 2524.9 | 2623.1 | 2701.5 | 2741.9 | 2718.9 | 2622.3 | 2494.0 | 2455.2 | 2464.7 |
| 35°   | 2662.6 | 2672.2 | 2718.1 | 2810.8 | 2879.6 | 2912.8 | 2874.1 | 2760.0 | 2616.0 | 2572.4 | 2578.7 |
| 37.5° | 2897.8 | 2891.5 | 2943.7 | 3026.1 | 3083.1 | 3103.7 | 3050.6 | 2915.2 | 2755.3 | 2703.8 | 2713.4 |
| 40°   | 3143.3 | 3140.1 | 3197.1 | 3276.3 | 3307.2 | 3319.9 | 3241.5 | 3093.3 | 2916.0 | 2860.6 | 2878.8 |
| 42.5° | 3365.8 | 3363.3 | 3440.2 | 3528.0 | 3565.3 | 3551.0 | 3452.1 | 3282.7 | 3102.1 | 3038.7 | 3054.6 |
| 45°   | 3543.9 | 3540.8 | 3635.0 | 3758.5 | 3831.3 | 3807.6 | 3674.5 | 3491.7 | 3290.6 | 3224.9 | 3239.8 |
| 47.5° | 3680.9 | 3682.4 | 3783.8 | 3936.6 | 4064.1 | 4072.8 | 3901.8 | 3704.7 | 3498.0 | 3423.5 | 3445.7 |
| 50°   | 3779.8 | 3784.6 | 3893.1 | 4062.5 | 4236.6 | 4313.5 | 4133.7 | 3923.2 | 3712.6 | 3628.6 | 3653.9 |
| 52.5° | 3804.4 | 3813.1 | 3943.7 | 4142.4 | 4347.5 | 4494.0 | 4369.7 | 4133.0 | 3916.0 | 3836.1 | 3856.7 |
| 55°   | 3673.7 | 3691.1 | 3856.7 | 4136.1 | 4415.6 | 4612.8 | 4577.1 | 4345.9 | 4121.1 | 4038.7 | 4061.7 |
| 57.5° | 3373.7 | 3398.2 | 3591.4 | 3956.4 | 4400.5 | 4694.3 | 4737.9 | 4550.2 | 4326.1 | 4247.0 | 4265.2 |
| 60°   | 2953.2 | 2982.5 | 3167.8 | 3566.1 | 4188.4 | 4724.4 | 4851.1 | 4748.9 | 4514.6 | 4437.7 | 4454.4 |
| 62.5° | 2319.1 | 2357.1 | 2578.7 | 3045.9 | 3740.2 | 4584.2 | 4947.7 | 4928.7 | 4684.0 | 4588.2 | 4599.3 |
| 65°   | 1487.7 | 1528.1 | 1761.7 | 2313.5 | 3142.4 | 4155.1 | 4977.8 | 5103.7 | 4862.9 | 4729.1 | 4745.8 |
| 67.5° | 897.1  | 915.2  | 1030.8 | 1402.2 | 2296.9 | 3508.3 | 4722.8 | 5297.6 | 5072.0 | 4905.8 | 4918.4 |
| 70°   | 574.0  | 584.4  | 653.2  | 823.4  | 1298.5 | 2559.7 | 4091.0 | 5334.1 | 5325.4 | 5087.1 | 5085.4 |
| 72.5° | 389.5  | 392.7  | 410.9  | 487.7  | 734.7  | 1454.5 | 3017.4 | 4828.9 | 5483.6 | 5320.6 | 5295.3 |
| 75°   | 285.1  | 302.5  | 331.8  | 345.2  | 417.3  | 726.8  | 1729.2 | 3392.6 | 4621.5 | 4692.8 | 4520.1 |
| 77.5° | 212.2  | 213.0  | 253.4  | 269.2  | 297.7  | 387.1  | 731.5  | 1893.9 | 2869.3 | 3012.6 | 2687.2 |
| 80°   | 179.7  | 170.3  | 169.4  | 216.9  | 224.1  | 241.5  | 327.0  | 653.9  | 1027.7 | 623.1  | 471.1  |
| 82.5° | 149.6  | 139.4  | 125.9  | 169.4  | 152.8  | 148.0  | 141.8  | 266.0  | 327.0  | 160.7  | 136.9  |
| 85°   | 104.6  | 99.7   | 95.0   | 110.8  | 87.1   | 74.4   | 68.1   | 124.3  | 137.8  | 68.1   | 60.2   |
| 87.5° | 45.1   | 46.7   | 47.5   | 49.1   | 36.4   | 26.1   | 26.1   | 34.8   | 34.8   | 27.0   | 19.8   |
| 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)