

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: P963559

Luminaire Tested: **NVN-SB3A-750-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3A-750-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

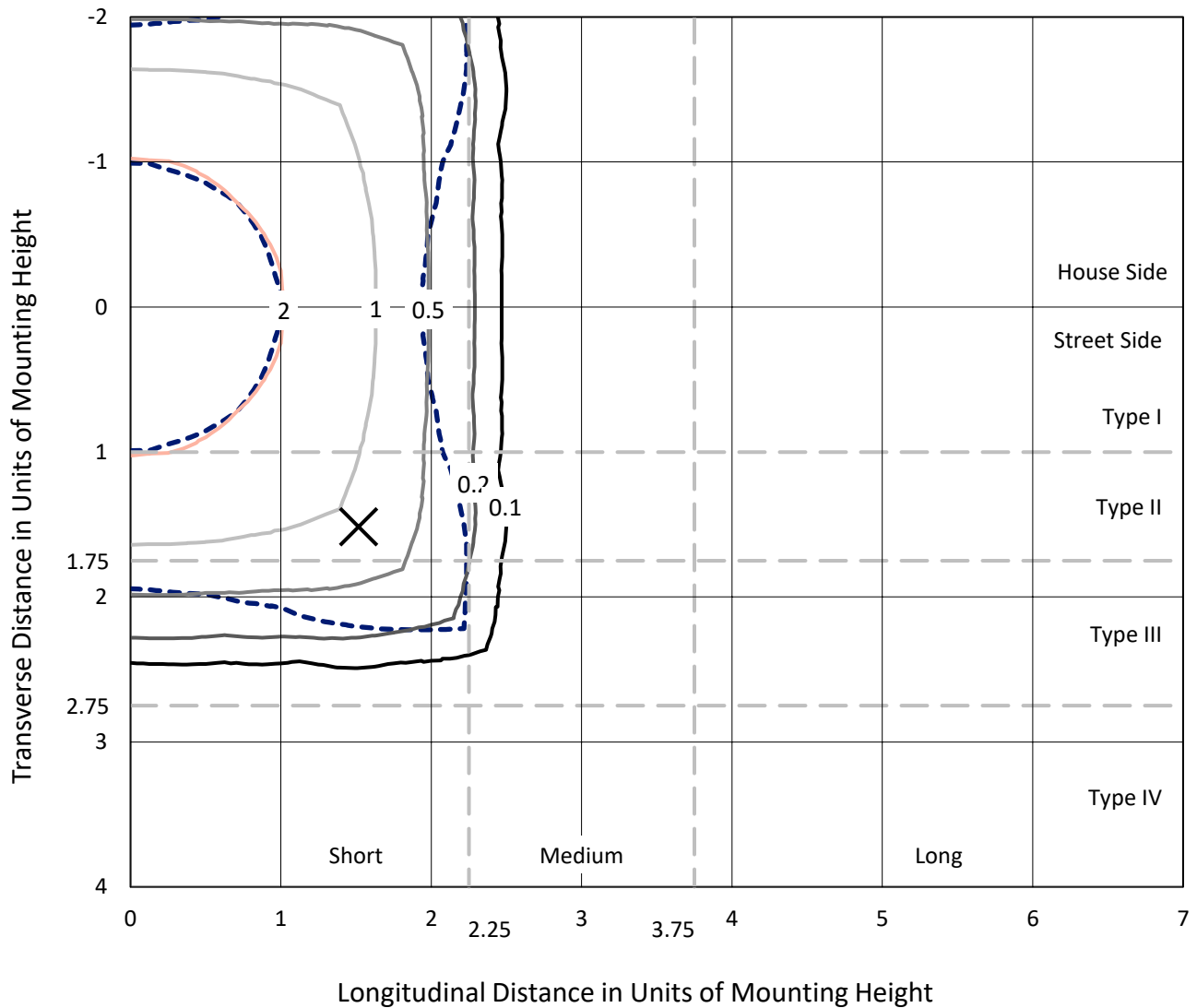
Lumens per Lamp: N/A  
Luminaire Lumens: 15294 lumens  
Efficiency: N/A  
Efficacy: 180.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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



REPORT NUMBER: P963559  
 CATALOG NUMBER: NVN-SB3A-750-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

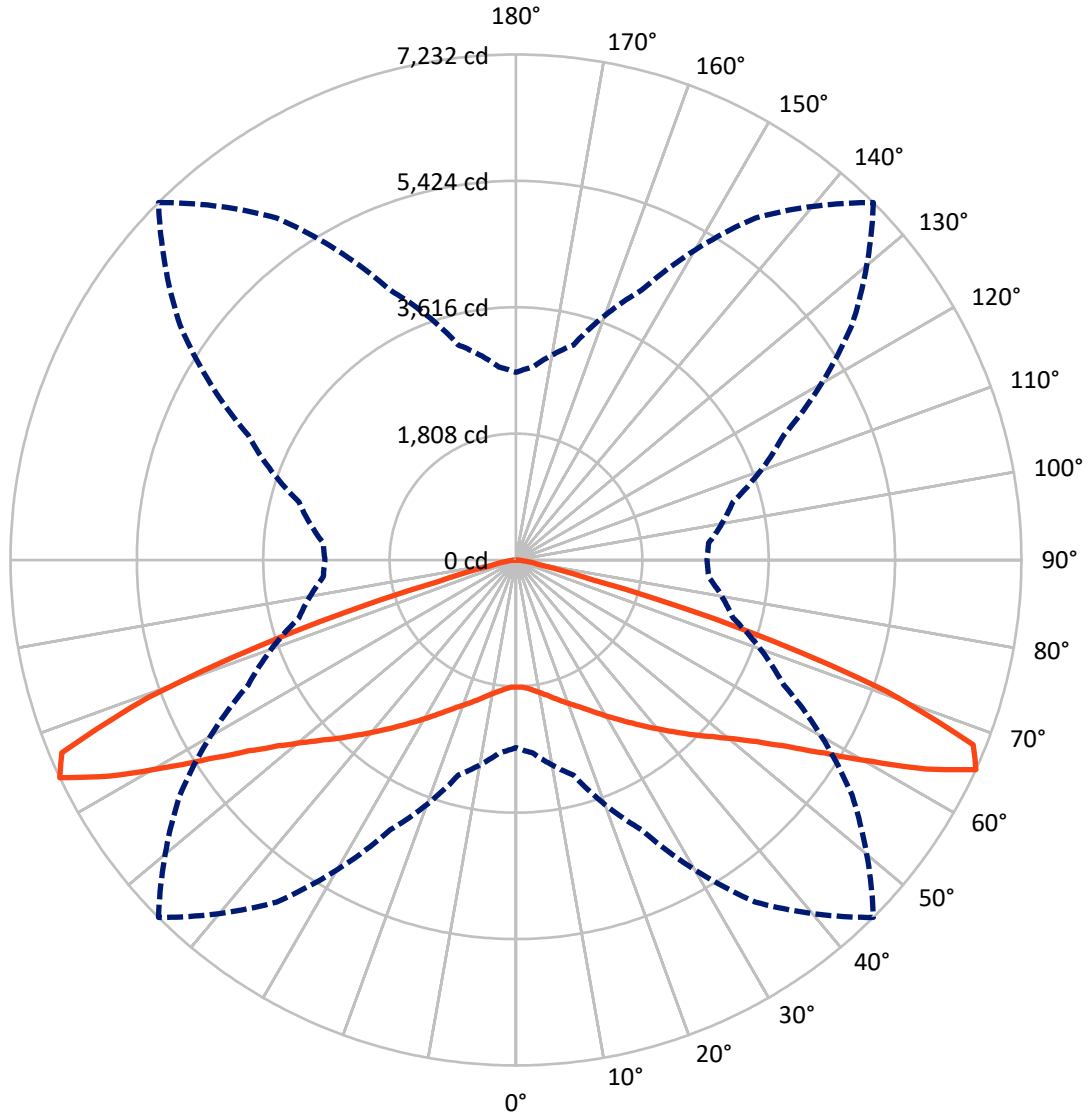
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

REPORT NUMBER: P963559  
CATALOG NUMBER: NVN-SB3A-750-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P963559  
 CATALOG NUMBER: NVN-SB3A-750-U-5NQ

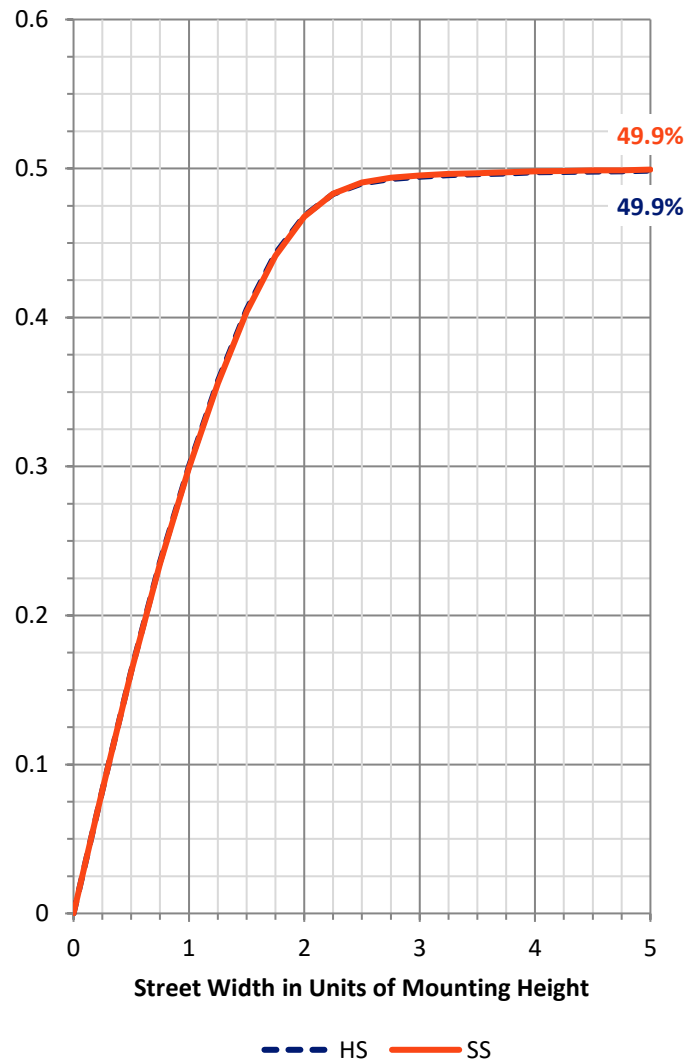
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7647.0   | 0.0    | 7647.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7647.0   | 0.0    | 7647.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15294.0  | 0.0    | 15294.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 179.6   | 1.2       |
| 10°-20°   | 586.1   | 3.8       |
| 20°-30°   | 1106.7  | 7.2       |
| 30°-40°   | 1812.2  | 11.8      |
| 40°-50°   | 2809.8  | 18.4      |
| 50°-60°   | 4150.7  | 27.1      |
| 60°-70°   | 3951.1  | 25.8      |
| 70°-80°   | 637.6   | 4.2       |
| 80°-90°   | 60.1    | 0.4       |
| 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°    | 15294.0 | 100.0     |
| 0°-180°   | 15294.0 | 100.0     |



REPORT NUMBER: P963559

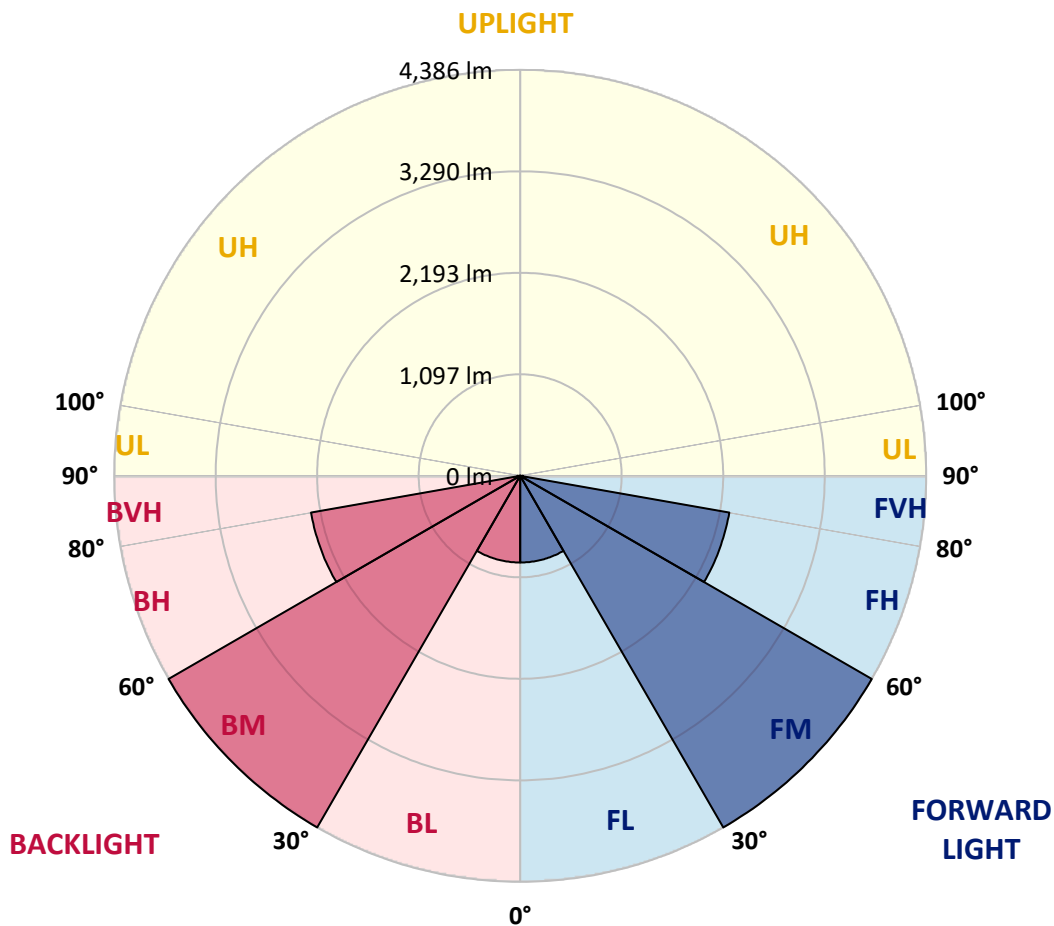
CATALOG NUMBER: NVN-SB3A-750-U-5NQ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 936.2  | 6.1       |                         |      |         |
| FM (30°-60°)   | 4386.4 | 28.7      |                         |      |         |
| FH (60°-80°)   | 2294.3 | 15.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 30.0   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 936.2  | 6.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 4386.4 | 28.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 2294.3 | 15.0      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 30.0   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short



REPORT NUMBER: P963559

CATALOG NUMBER: NVN-SB3A-750-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1820.1 | 1820.1 | 1820.1 | 1820.1 | 1820.1 | 1820.1 | 1820.1 | 1820.1 | 1820.1 | 1820.1 | 1820.1 |
| 2.5°  | 1832.4 | 1826.2 | 1830.9 | 1827.1 | 1824.0 | 1820.9 | 1822.4 | 1827.8 | 1830.1 | 1830.9 | 1830.9 |
| 5°    | 1857.0 | 1851.6 | 1853.9 | 1853.9 | 1848.5 | 1847.0 | 1847.8 | 1851.6 | 1856.2 | 1856.2 | 1856.2 |
| 7.5°  | 1896.9 | 1891.5 | 1896.9 | 1893.8 | 1889.2 | 1887.6 | 1886.9 | 1890.0 | 1896.9 | 1896.9 | 1894.6 |
| 10°   | 1945.2 | 1939.1 | 1942.2 | 1940.6 | 1935.2 | 1932.9 | 1932.1 | 1936.7 | 1942.9 | 1942.2 | 1940.6 |
| 12.5° | 1998.1 | 1991.3 | 1995.1 | 1990.4 | 1988.9 | 1986.7 | 1986.7 | 1985.9 | 1989.7 | 1986.7 | 1988.2 |
| 15°   | 2057.3 | 2052.7 | 2054.2 | 2051.1 | 2053.4 | 2051.8 | 2045.7 | 2042.7 | 2044.2 | 2039.6 | 2040.4 |
| 17.5° | 2127.1 | 2116.3 | 2121.8 | 2120.2 | 2120.2 | 2123.3 | 2113.2 | 2109.4 | 2112.5 | 2107.9 | 2111.7 |
| 20°   | 2207.6 | 2196.9 | 2199.2 | 2196.2 | 2192.3 | 2195.3 | 2183.0 | 2186.1 | 2188.5 | 2185.4 | 2192.3 |
| 22.5° | 2295.9 | 2282.1 | 2281.3 | 2282.9 | 2274.4 | 2275.2 | 2266.8 | 2274.4 | 2279.0 | 2270.6 | 2279.0 |
| 25°   | 2386.4 | 2371.8 | 2381.8 | 2378.0 | 2367.2 | 2369.6 | 2363.4 | 2371.1 | 2374.9 | 2364.2 | 2376.5 |
| 27.5° | 2482.3 | 2472.4 | 2481.6 | 2483.9 | 2470.9 | 2480.1 | 2470.9 | 2477.7 | 2481.6 | 2465.4 | 2477.7 |
| 30°   | 2594.4 | 2584.4 | 2592.8 | 2599.0 | 2583.6 | 2598.3 | 2590.6 | 2595.2 | 2595.9 | 2576.7 | 2588.2 |
| 32.5° | 2716.4 | 2701.1 | 2722.5 | 2725.6 | 2708.8 | 2726.4 | 2716.4 | 2722.5 | 2726.4 | 2700.3 | 2717.9 |
| 35°   | 2865.3 | 2846.1 | 2870.6 | 2866.8 | 2852.3 | 2866.8 | 2857.6 | 2866.8 | 2876.0 | 2844.6 | 2863.7 |
| 37.5° | 3025.6 | 3005.7 | 3031.7 | 3024.9 | 3011.0 | 3021.1 | 3015.7 | 3021.8 | 3036.4 | 3002.6 | 3023.3 |
| 40°   | 3202.1 | 3177.6 | 3212.9 | 3200.6 | 3187.5 | 3186.0 | 3189.1 | 3192.9 | 3212.1 | 3174.5 | 3186.8 |
| 42.5° | 3390.9 | 3364.8 | 3417.8 | 3398.6 | 3380.1 | 3367.8 | 3377.9 | 3385.6 | 3403.9 | 3361.7 | 3384.0 |
| 45°   | 3606.6 | 3576.6 | 3645.6 | 3622.7 | 3593.4 | 3568.1 | 3584.2 | 3595.8 | 3622.7 | 3572.0 | 3598.1 |
| 47.5° | 3844.4 | 3810.6 | 3884.3 | 3877.4 | 3829.8 | 3774.6 | 3811.4 | 3844.4 | 3864.4 | 3803.0 | 3823.7 |
| 50°   | 4076.9 | 4050.8 | 4147.5 | 4156.0 | 4097.6 | 4020.2 | 4071.5 | 4121.4 | 4126.8 | 4046.2 | 4056.2 |
| 52.5° | 4294.9 | 4268.7 | 4409.1 | 4462.1 | 4410.0 | 4317.8 | 4372.3 | 4423.0 | 4382.3 | 4277.9 | 4281.0 |
| 55°   | 4469.0 | 4447.6 | 4626.3 | 4762.9 | 4780.6 | 4704.5 | 4736.8 | 4735.3 | 4601.7 | 4441.4 | 4446.8 |
| 57.5° | 4511.2 | 4508.2 | 4733.8 | 5023.0 | 5207.2 | 5216.4 | 5152.7 | 4990.0 | 4702.3 | 4486.6 | 4472.9 |
| 60°   | 4319.3 | 4338.5 | 4648.6 | 5158.8 | 5650.0 | 5854.1 | 5578.6 | 5114.3 | 4588.0 | 4288.7 | 4253.4 |
| 62.5° | 3745.5 | 3796.1 | 4169.8 | 4993.1 | 6007.5 | 6587.7 | 5920.1 | 4925.6 | 4118.3 | 3727.7 | 3704.8 |
| 65°   | 2684.2 | 2772.4 | 3185.3 | 4261.0 | 5975.3 | 7232.2 | 5871.0 | 4226.5 | 3215.9 | 2765.6 | 2732.5 |
| 67.5° | 1217.8 | 1307.6 | 1658.2 | 2917.5 | 5194.2 | 7057.2 | 5181.9 | 2948.1 | 1741.1 | 1312.2 | 1292.9 |
| 70°   | 441.3  | 456.5  | 569.4  | 1167.9 | 3319.6 | 5623.2 | 3461.5 | 1176.3 | 605.5  | 486.5  | 480.3  |
| 72.5° | 267.0  | 269.4  | 293.2  | 418.2  | 1153.3 | 3414.0 | 1202.4 | 432.0  | 299.3  | 265.5  | 270.1  |
| 75°   | 169.5  | 168.0  | 208.7  | 255.5  | 409.0  | 1151.8 | 429.0  | 255.5  | 208.0  | 189.5  | 191.1  |
| 77.5° | 122.0  | 125.9  | 149.6  | 191.1  | 257.8  | 390.6  | 253.2  | 182.7  | 149.6  | 122.8  | 125.0  |
| 80°   | 91.3   | 93.6   | 109.0  | 148.8  | 181.1  | 243.2  | 161.1  | 135.1  | 112.7  | 76.8   | 79.0   |
| 82.5° | 66.0   | 66.0   | 71.3   | 108.2  | 110.5  | 131.2  | 87.4   | 95.1   | 74.4   | 54.5   | 54.5   |
| 85°   | 39.2   | 38.3   | 44.5   | 64.5   | 57.5   | 48.4   | 39.9   | 58.3   | 46.8   | 33.7   | 33.0   |
| 87.5° | 13.8   | 14.6   | 13.8   | 18.4   | 15.4   | 13.0   | 12.3   | 16.1   | 13.0   | 11.5   | 10.8   |
| 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)