

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: P959776

Luminaire Tested: **NVN-SB1B-730-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1B-730-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6046.5 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

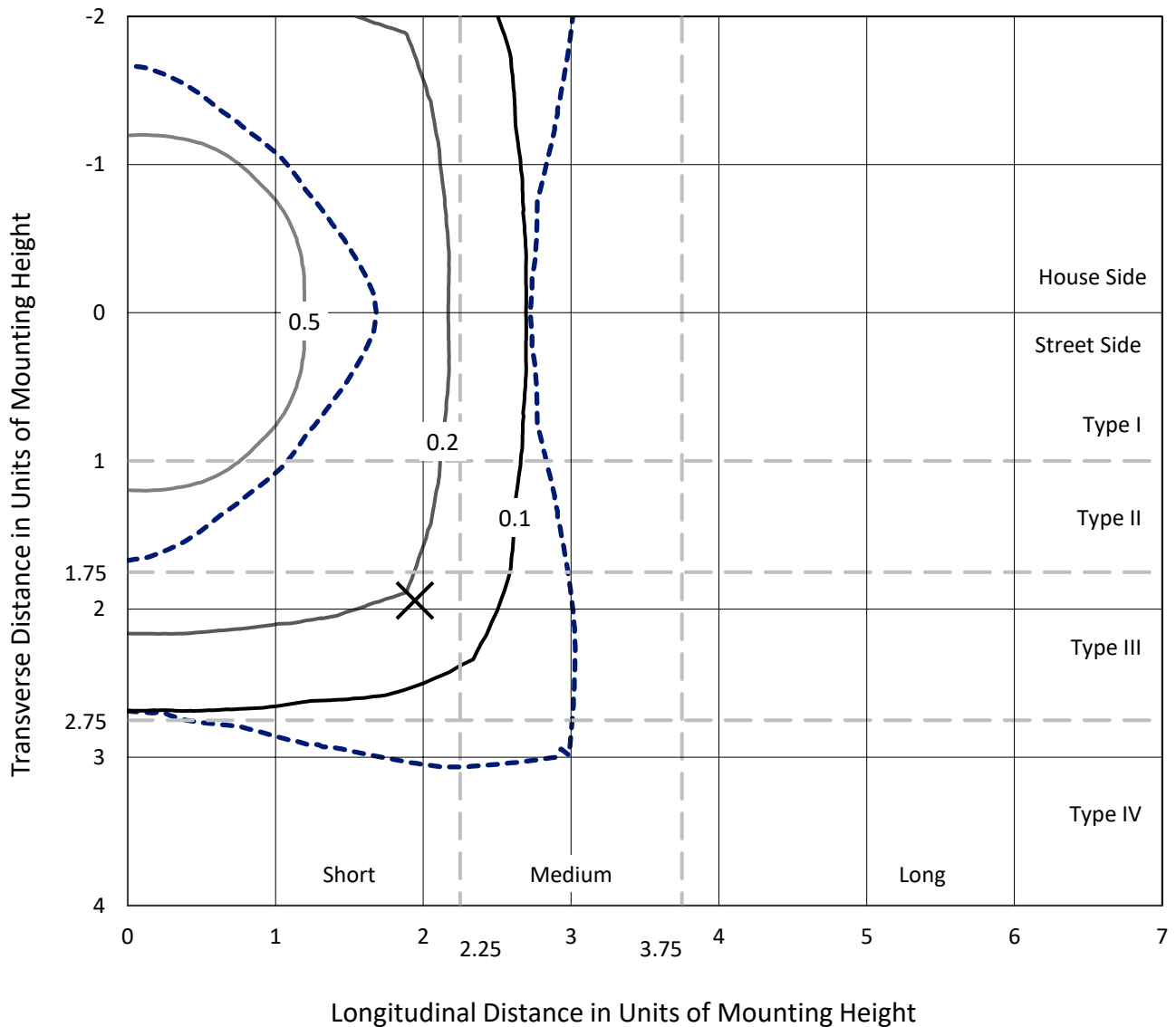
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

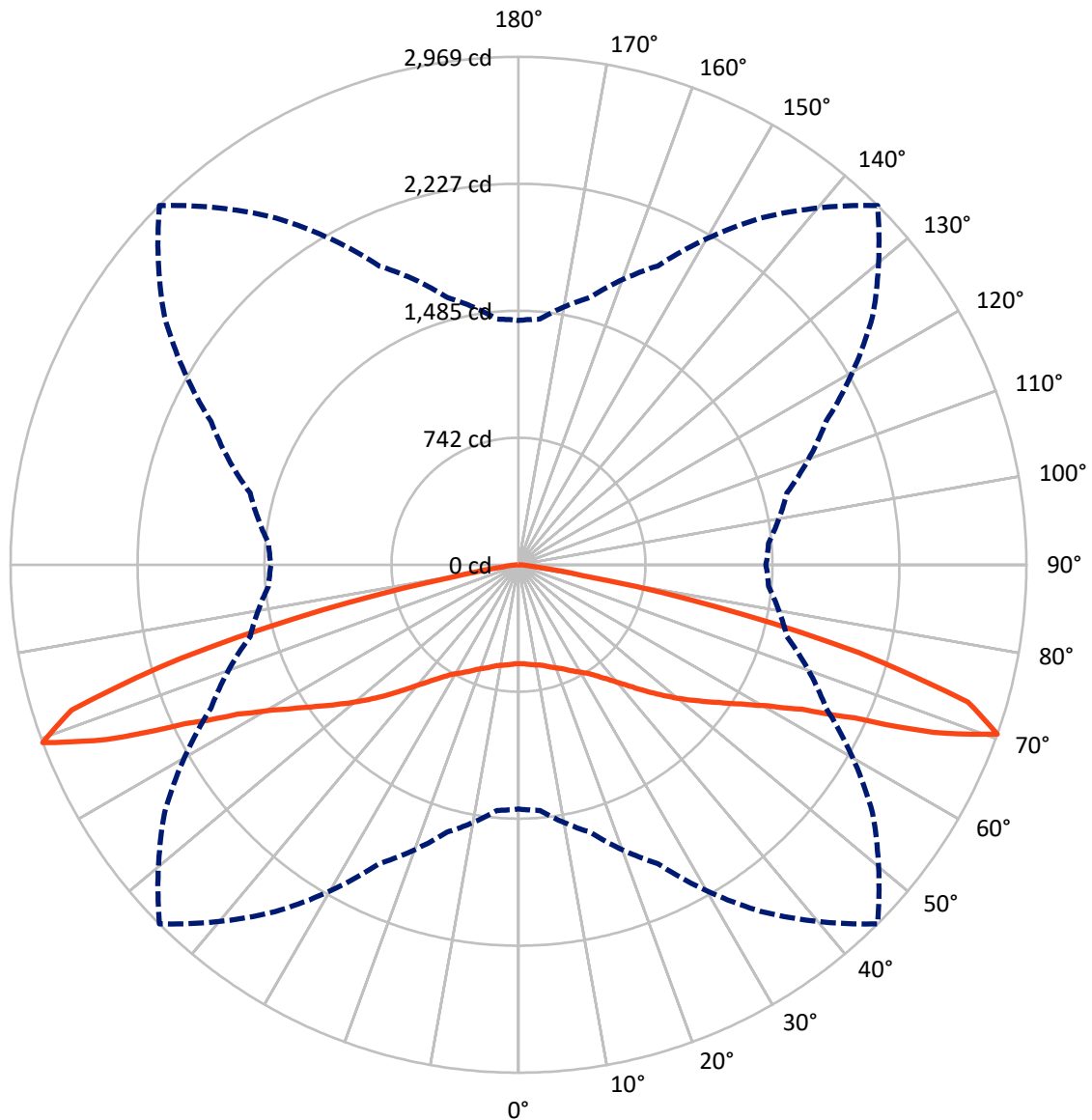
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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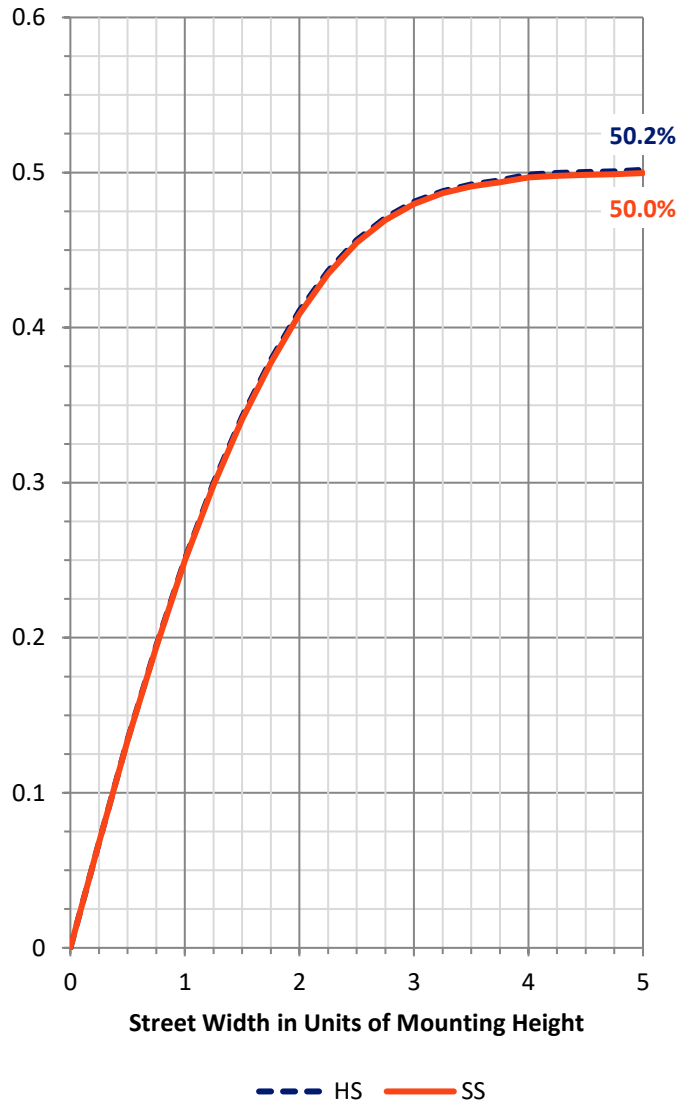
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3023.2   | 0.0    | 3023.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3023.2   | 0.0    | 3023.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6046.5   | 0.0    | 6046.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.3   | 0.9       |
| 10°-20°   | 174.5  | 2.9       |
| 20°-30°   | 311.8  | 5.2       |
| 30°-40°   | 505.5  | 8.4       |
| 40°-50°   | 823.3  | 13.6      |
| 50°-60°   | 1255.3 | 20.8      |
| 60°-70°   | 1867.4 | 30.9      |
| 70°-80°   | 1017.8 | 16.8      |
| 80°-90°   | 34.7   | 0.6       |
| 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°    | 6046.5 | 100.0     |
| 0°-180°   | 6046.5 | 100.0     |

**Coefficient of Utilization**



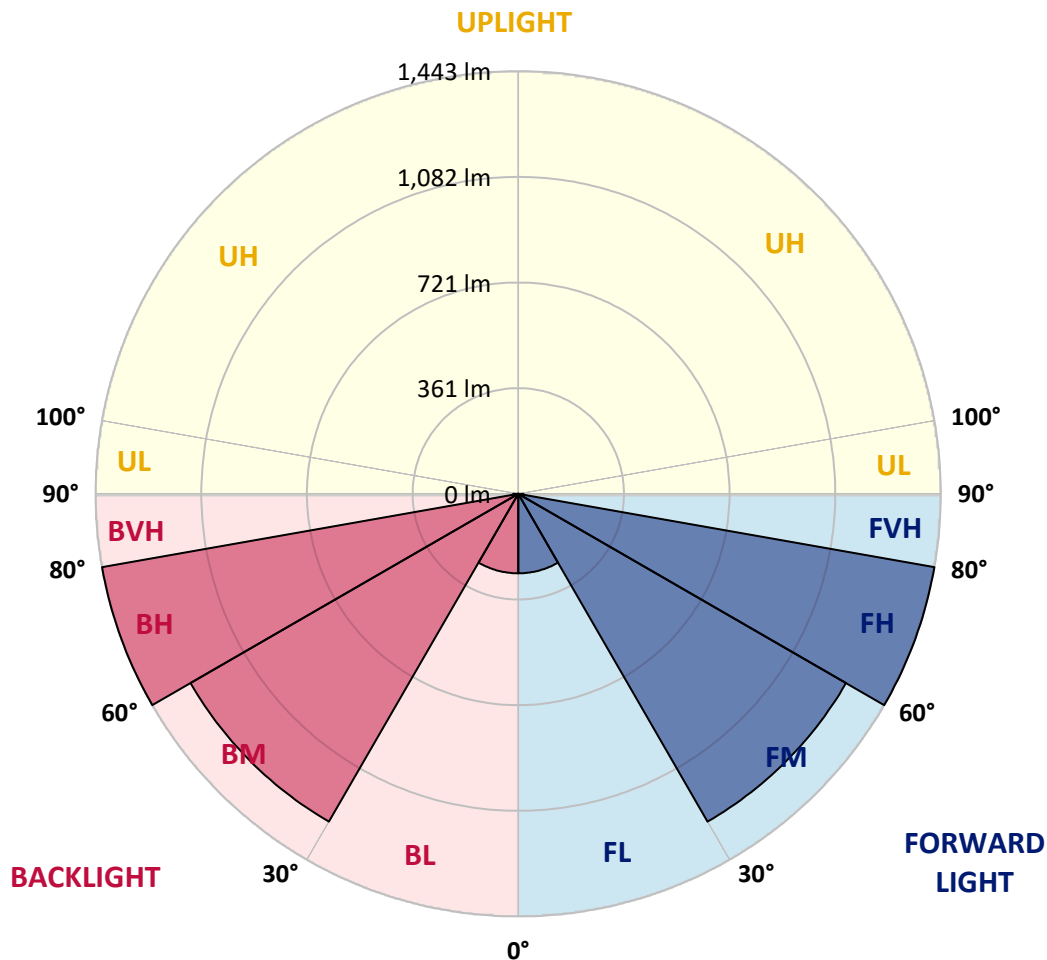
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 271.3  | 4.5       |                         |      |         |
| FM (30°-60°)   | 1292.0 | 21.4      |                         |      |         |
| FH (60°-80°)   | 1442.6 | 23.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 17.3   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 271.3  | 4.5       | B1/500                  |      |         |
| BM (30°-60°)   | 1292.0 | 21.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 1442.6 | 23.9      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 17.3   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 579.2  | 579.2  | 579.2  | 579.2  | 579.2  | 579.2  | 579.2  | 579.2  | 579.2  | 579.2  | 579.2  |
| 2.5°  | 581.9  | 582.5  | 581.3  | 580.7  | 580.2  | 579.2  | 579.5  | 581.0  | 582.2  | 581.9  | 582.2  |
| 5°    | 586.8  | 587.4  | 586.5  | 586.2  | 585.0  | 584.7  | 584.7  | 586.2  | 587.1  | 586.5  | 586.8  |
| 7.5°  | 592.2  | 593.2  | 591.6  | 591.3  | 590.7  | 590.1  | 589.8  | 591.3  | 592.2  | 592.2  | 592.2  |
| 10°   | 597.4  | 598.3  | 597.1  | 596.1  | 595.6  | 595.6  | 595.0  | 596.1  | 597.7  | 597.4  | 597.4  |
| 12.5° | 602.9  | 603.5  | 602.3  | 601.7  | 601.7  | 602.6  | 601.7  | 602.3  | 603.5  | 602.9  | 602.6  |
| 15°   | 609.6  | 609.9  | 609.6  | 610.5  | 611.9  | 615.0  | 612.2  | 611.7  | 612.2  | 610.8  | 610.8  |
| 17.5° | 618.7  | 619.3  | 620.4  | 622.6  | 624.7  | 630.2  | 625.4  | 623.8  | 623.8  | 620.7  | 620.7  |
| 20°   | 629.9  | 630.8  | 632.6  | 636.2  | 639.0  | 644.1  | 639.3  | 637.1  | 636.2  | 632.3  | 632.3  |
| 22.5° | 641.8  | 643.3  | 646.0  | 650.9  | 655.7  | 660.5  | 655.7  | 652.0  | 649.3  | 644.1  | 643.8  |
| 25°   | 655.4  | 657.2  | 661.4  | 669.3  | 676.0  | 683.0  | 677.2  | 669.9  | 664.5  | 657.2  | 656.9  |
| 27.5° | 674.9  | 676.9  | 682.1  | 691.8  | 700.3  | 706.4  | 700.9  | 691.5  | 683.9  | 675.1  | 674.9  |
| 30°   | 702.1  | 704.3  | 710.3  | 720.7  | 726.4  | 730.3  | 726.7  | 719.4  | 710.3  | 700.3  | 700.3  |
| 32.5° | 737.4  | 740.0  | 746.7  | 756.4  | 757.7  | 758.3  | 757.1  | 753.5  | 746.7  | 734.6  | 734.9  |
| 35°   | 782.0  | 785.0  | 792.6  | 800.5  | 799.3  | 800.5  | 798.7  | 797.4  | 792.6  | 778.6  | 778.6  |
| 37.5° | 836.6  | 840.3  | 848.2  | 854.2  | 851.2  | 849.6  | 849.9  | 850.2  | 847.6  | 832.1  | 832.1  |
| 40°   | 900.1  | 904.9  | 910.7  | 917.1  | 911.8  | 907.3  | 910.4  | 912.8  | 910.4  | 894.6  | 894.6  |
| 42.5° | 965.3  | 972.3  | 978.4  | 987.5  | 983.2  | 977.4  | 981.7  | 984.4  | 979.3  | 962.3  | 963.5  |
| 45°   | 1037.9 | 1044.6 | 1052.5 | 1066.1 | 1063.0 | 1057.0 | 1063.0 | 1063.6 | 1054.8 | 1034.8 | 1037.0 |
| 47.5° | 1112.8 | 1119.8 | 1131.7 | 1149.8 | 1148.6 | 1142.0 | 1149.8 | 1145.6 | 1134.4 | 1110.4 | 1108.9 |
| 50°   | 1183.9 | 1193.6 | 1211.8 | 1237.3 | 1239.7 | 1231.5 | 1242.2 | 1234.0 | 1215.1 | 1185.1 | 1184.5 |
| 52.5° | 1250.7 | 1261.0 | 1289.9 | 1324.4 | 1333.2 | 1322.6 | 1336.9 | 1322.6 | 1294.4 | 1255.8 | 1252.1 |
| 55°   | 1320.8 | 1332.3 | 1366.6 | 1411.8 | 1429.5 | 1421.6 | 1434.9 | 1413.4 | 1373.3 | 1326.6 | 1320.2 |
| 57.5° | 1403.3 | 1410.3 | 1451.3 | 1505.0 | 1534.8 | 1536.6 | 1542.7 | 1506.2 | 1457.7 | 1404.6 | 1397.3 |
| 60°   | 1492.9 | 1502.6 | 1547.2 | 1611.6 | 1658.7 | 1673.8 | 1667.5 | 1613.5 | 1557.0 | 1496.0 | 1486.2 |
| 62.5° | 1607.6 | 1618.3 | 1671.7 | 1748.8 | 1823.2 | 1860.8 | 1835.9 | 1757.6 | 1687.8 | 1614.6 | 1601.9 |
| 65°   | 1702.6 | 1714.5 | 1811.1 | 1948.5 | 2083.9 | 2159.5 | 2096.9 | 1952.8 | 1827.2 | 1723.9 | 1706.9 |
| 67.5° | 1633.7 | 1648.3 | 1799.8 | 2052.4 | 2389.0 | 2614.6 | 2400.5 | 2083.3 | 1837.1 | 1697.2 | 1676.3 |
| 70°   | 1427.9 | 1441.6 | 1618.3 | 1927.0 | 2474.9 | 2969.1 | 2526.5 | 1983.8 | 1624.0 | 1467.4 | 1446.5 |
| 72.5° | 948.0  | 992.0  | 1170.9 | 1541.2 | 2209.9 | 2747.5 | 2231.7 | 1509.9 | 1086.1 | 945.9  | 915.2  |
| 75°   | 314.5  | 349.7  | 471.7  | 799.0  | 1480.2 | 2054.8 | 1409.2 | 706.9  | 373.7  | 269.0  | 254.4  |
| 77.5° | 79.2   | 91.3   | 126.0  | 228.6  | 590.4  | 1169.9 | 531.6  | 186.7  | 101.7  | 71.0   | 63.4   |
| 80°   | 38.5   | 42.5   | 60.7   | 76.2   | 147.8  | 371.9  | 138.7  | 71.6   | 48.0   | 37.0   | 34.0   |
| 82.5° | 21.2   | 21.5   | 34.3   | 43.2   | 54.9   | 96.2   | 57.1   | 41.9   | 27.7   | 22.4   | 22.4   |
| 85°   | 13.0   | 12.7   | 18.2   | 23.1   | 23.1   | 34.3   | 27.4   | 23.1   | 15.8   | 13.9   | 14.6   |
| 87.5° | 5.1    | 5.1    | 6.7    | 7.3    | 6.4    | 8.8    | 7.0    | 7.6    | 6.0    | 5.7    | 6.0    |
| 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)