

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: P971406

Luminaire Tested: **NVN-SB6D-735-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971406  
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-SB6D-735-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

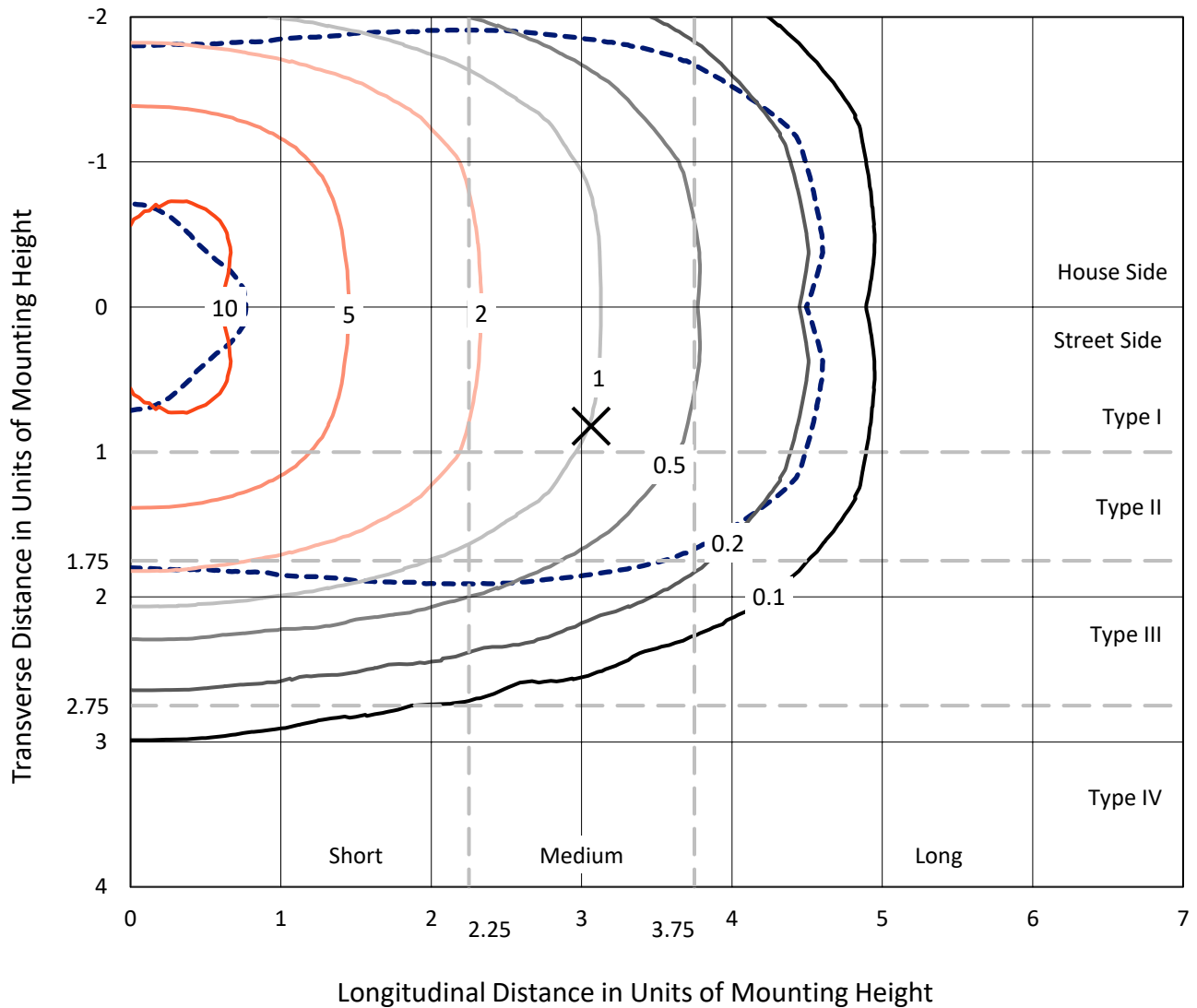
Lumens per Lamp: N/A  
Luminaire Lumens: 65132.6 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

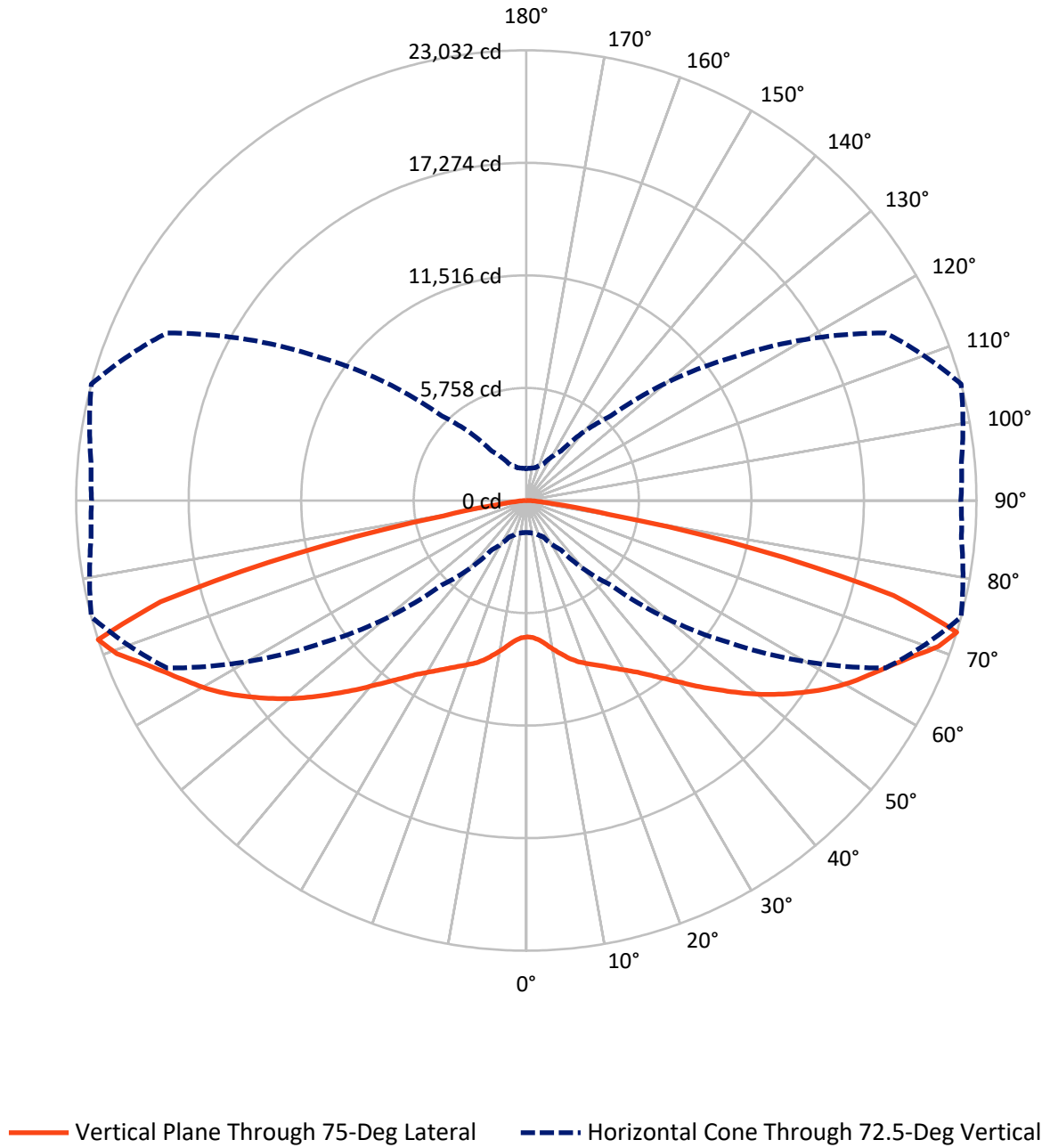
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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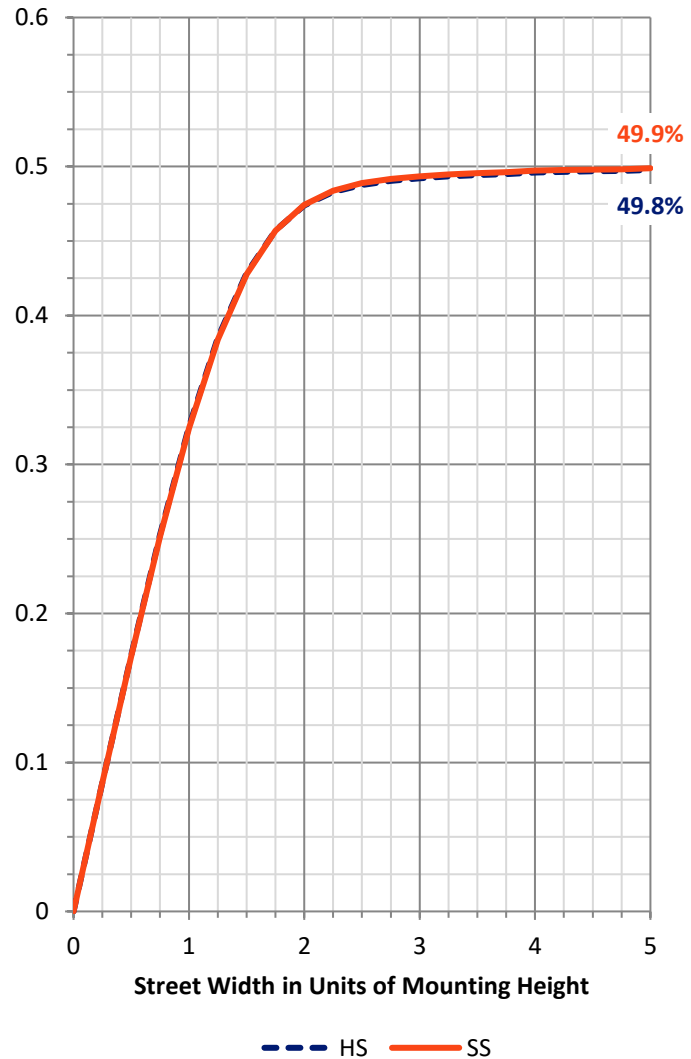
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 32566.3  | 0.0    | 32566.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 32566.3  | 0.0    | 32566.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 65132.6  | 0.0    | 65132.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 683.5   | 1.0       |
| 10°-20°   | 2254.1  | 3.5       |
| 20°-30°   | 4355.7  | 6.7       |
| 30°-40°   | 7354.8  | 11.3      |
| 40°-50°   | 11663.9 | 17.9      |
| 50°-60°   | 15616.5 | 24.0      |
| 60°-70°   | 14861.9 | 22.8      |
| 70°-80°   | 7755.2  | 11.9      |
| 80°-90°   | 587.0   | 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°    | 65132.6 | 100.0     |
| 0°-180°   | 65132.6 | 100.0     |

**Coefficient of Utilization**



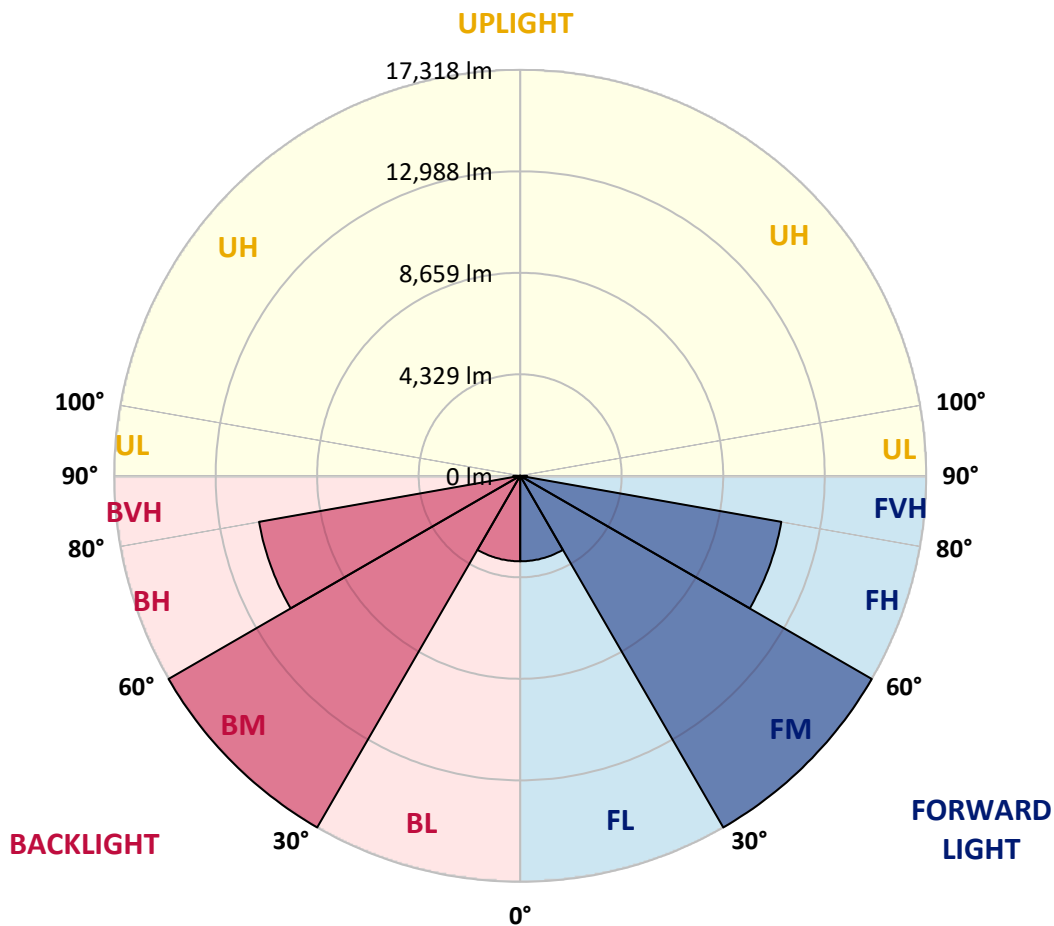
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3646.6  | 5.6       |                         |      |          |
| FM (30°-60°)   | 17317.6 | 26.6      |                         |      |          |
| FH (60°-80°)   | 11308.6 | 17.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 293.5   | 0.5       |                         |      | G3/500   |
| BL (0°-30°)    | 3646.6  | 5.6       | B4/5000                 |      |          |
| BM (30°-60°)   | 17317.6 | 26.6      | B5                      |      |          |
| BH (60°-80°)   | 11308.6 | 17.4      | B5                      |      | G5       |
| BVH (80°-90°)  | 293.5   | 0.5       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6976.9  | 6976.9  | 6976.9  | 6976.9  | 6976.9  | 6976.9  | 6976.9  | 6976.9  | 6976.9  | 6976.9  | 6976.9  |
| 2.5°  | 6976.9  | 6970.2  | 6976.9  | 6983.5  | 6980.1  | 6980.1  | 6996.9  | 7006.8  | 7026.8  | 7023.4  | 7020.1  |
| 5°    | 6930.3  | 6927.0  | 6953.6  | 6983.5  | 7006.8  | 7046.7  | 7096.6  | 7133.2  | 7179.7  | 7189.7  | 7189.7  |
| 7.5°  | 6907.1  | 6897.0  | 6943.7  | 6996.9  | 7069.9  | 7169.8  | 7266.2  | 7366.0  | 7445.8  | 7472.4  | 7479.0  |
| 10°   | 6923.7  | 6927.0  | 6990.2  | 7089.9  | 7206.4  | 7346.0  | 7482.3  | 7651.9  | 7765.0  | 7791.6  | 7818.2  |
| 12.5° | 7000.1  | 6993.5  | 7099.9  | 7259.6  | 7419.2  | 7595.5  | 7755.0  | 7941.3  | 8064.3  | 8127.5  | 8154.1  |
| 15°   | 7139.8  | 7126.5  | 7276.2  | 7512.2  | 7745.1  | 7951.2  | 8080.9  | 8257.2  | 8400.2  | 8480.0  | 8510.0  |
| 17.5° | 7306.1  | 7312.8  | 7508.9  | 7814.9  | 8120.9  | 8353.6  | 8476.6  | 8566.4  | 8676.2  | 8746.0  | 8779.3  |
| 20°   | 7598.7  | 7612.1  | 7831.5  | 8194.0  | 8543.2  | 8809.3  | 8909.0  | 8875.7  | 8905.6  | 8958.8  | 8998.8  |
| 22.5° | 7991.1  | 7997.8  | 8243.9  | 8636.2  | 9002.1  | 9294.7  | 9361.2  | 9224.9  | 9141.8  | 9178.4  | 9204.9  |
| 25°   | 8446.7  | 8490.0  | 8736.1  | 9138.4  | 9514.3  | 9793.6  | 9823.5  | 9617.3  | 9411.1  | 9421.1  | 9437.7  |
| 27.5° | 9002.1  | 9042.0  | 9291.4  | 9690.5  | 10072.9 | 10315.7 | 10312.3 | 10036.3 | 9733.7  | 9657.2  | 9680.5  |
| 30°   | 9604.0  | 9647.2  | 9903.3  | 10315.7 | 10671.5 | 10884.3 | 10837.7 | 10508.5 | 10076.3 | 9933.2  | 9949.9  |
| 32.5° | 10319.0 | 10345.6 | 10605.0 | 11017.3 | 11346.5 | 11516.2 | 11419.7 | 11014.0 | 10475.3 | 10312.3 | 10352.2 |
| 35°   | 11183.6 | 11223.5 | 11416.3 | 11805.4 | 12094.8 | 12234.5 | 12071.5 | 11592.6 | 10987.4 | 10804.5 | 10831.1 |
| 37.5° | 12171.3 | 12144.7 | 12364.2 | 12710.0 | 12949.4 | 13035.9 | 12813.1 | 12244.4 | 11572.7 | 11356.5 | 11396.5 |
| 40°   | 13202.2 | 13188.9 | 13428.3 | 13760.8 | 13890.6 | 13943.8 | 13614.6 | 12992.7 | 12247.7 | 12014.9 | 12091.4 |
| 42.5° | 14136.6 | 14126.7 | 14449.2 | 14818.3 | 14974.6 | 14914.8 | 14499.1 | 13787.5 | 13029.3 | 12763.2 | 12829.7 |
| 45°   | 14884.8 | 14871.5 | 15267.3 | 15786.1 | 16092.0 | 15992.3 | 15433.5 | 14665.4 | 13820.7 | 13544.7 | 13607.9 |
| 47.5° | 15460.2 | 15466.8 | 15892.5 | 16534.3 | 17069.7 | 17106.3 | 16388.0 | 15559.9 | 14692.0 | 14379.4 | 14472.5 |
| 50°   | 15875.8 | 15895.8 | 16351.4 | 17063.1 | 17794.7 | 18117.3 | 17362.4 | 16477.8 | 15593.2 | 15240.7 | 15347.1 |
| 52.5° | 15978.9 | 16015.5 | 16564.2 | 17399.0 | 18260.3 | 18875.5 | 18353.3 | 17359.0 | 16447.9 | 16112.0 | 16198.5 |
| 55°   | 15430.2 | 15503.4 | 16198.5 | 17372.3 | 18546.2 | 19374.2 | 19224.6 | 18253.6 | 17309.2 | 16963.3 | 17059.7 |
| 57.5° | 14169.9 | 14273.0 | 15084.4 | 16617.4 | 18483.0 | 19716.8 | 19899.7 | 19111.5 | 18170.5 | 17837.9 | 17914.4 |
| 60°   | 12404.0 | 12527.1 | 13305.2 | 14978.0 | 17591.8 | 19843.2 | 20375.3 | 19946.3 | 18961.9 | 18639.3 | 18709.2 |
| 62.5° | 9740.4  | 9900.0  | 10831.1 | 12793.1 | 15709.6 | 19254.5 | 20781.0 | 20701.1 | 19673.5 | 19271.2 | 19317.8 |
| 65°   | 6248.6  | 6418.1  | 7399.2  | 9717.1  | 13198.8 | 17452.2 | 20907.3 | 21436.0 | 20425.2 | 19863.2 | 19933.0 |
| 67.5° | 3767.8  | 3844.3  | 4329.8  | 5889.4  | 9647.2  | 14735.2 | 19836.5 | 22250.8 | 21303.1 | 20604.8 | 20658.0 |
| 70°   | 2411.0  | 2454.2  | 2743.5  | 3458.6  | 5453.8  | 10751.3 | 17182.8 | 22403.8 | 22367.2 | 21366.2 | 21359.6 |
| 72.5° | 1636.1  | 1649.4  | 1725.9  | 2048.5  | 3086.1  | 6108.9  | 12673.4 | 20282.1 | 23032.3 | 22347.3 | 22240.9 |
| 75°   | 1197.2  | 1270.4  | 1393.4  | 1449.9  | 1752.5  | 3052.8  | 7262.8  | 14249.7 | 19410.8 | 19710.1 | 18985.2 |
| 77.5° | 891.2   | 894.5   | 1064.2  | 1130.7  | 1250.4  | 1626.2  | 3072.7  | 7954.5  | 12051.5 | 12653.4 | 11286.7 |
| 80°   | 754.9   | 714.9   | 711.7   | 911.2   | 941.2   | 1014.2  | 1373.4  | 2746.9  | 4316.5  | 2617.1  | 1978.7  |
| 82.5° | 628.5   | 585.3   | 528.8   | 711.7   | 641.9   | 621.9   | 595.2   | 1117.4  | 1373.4  | 675.1   | 575.3   |
| 85°   | 439.0   | 419.0   | 399.0   | 465.6   | 365.8   | 312.6   | 286.0   | 522.1   | 578.6   | 286.0   | 252.8   |
| 87.5° | 189.5   | 196.2   | 199.6   | 206.2   | 152.9   | 109.8   | 109.8   | 146.4   | 146.4   | 113.1   | 83.1    |
| 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)