

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: P970812

Luminaire Tested: **NVN-SB6C-727-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970812  
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-SB6C-727-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45216.8 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

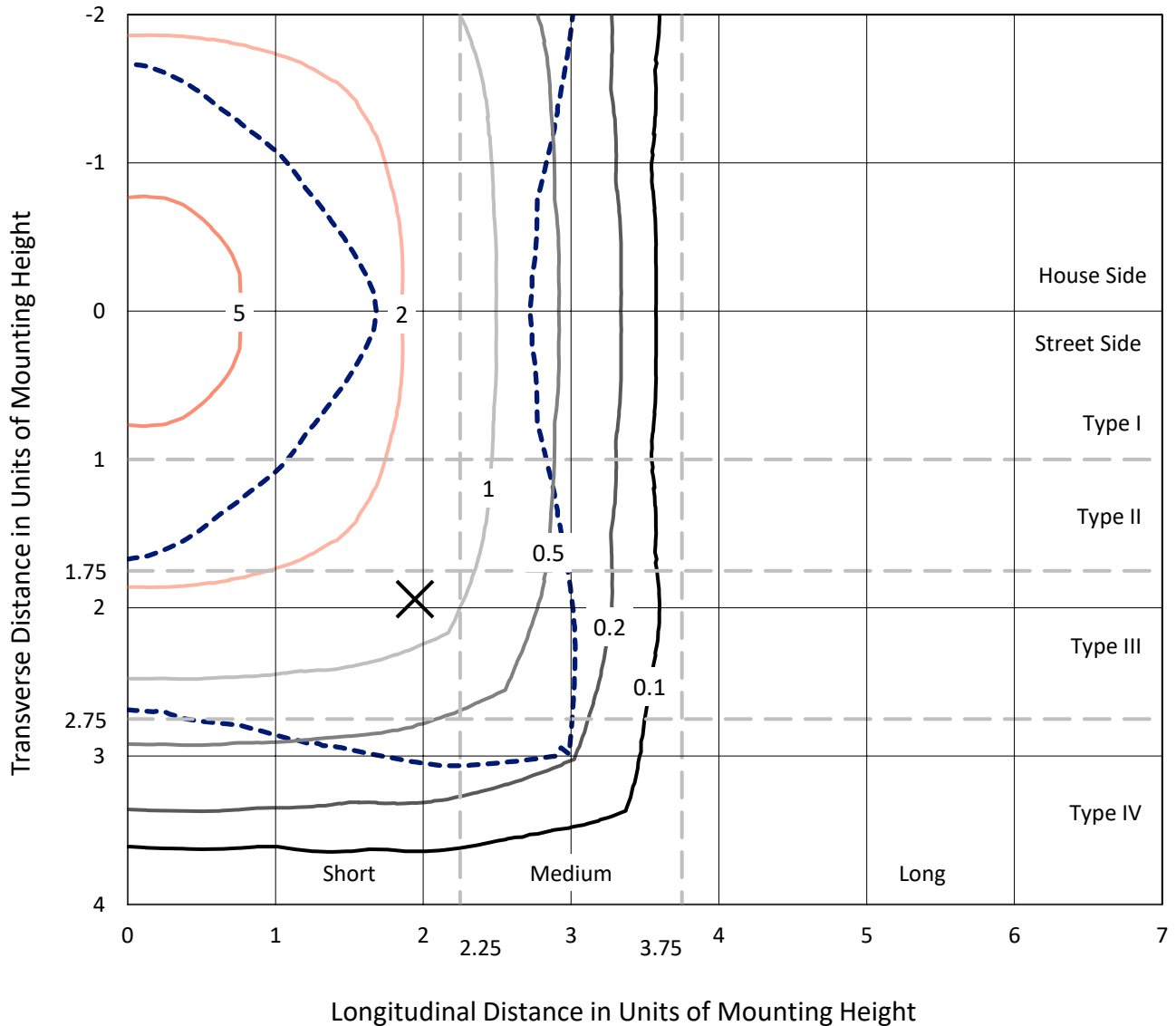
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

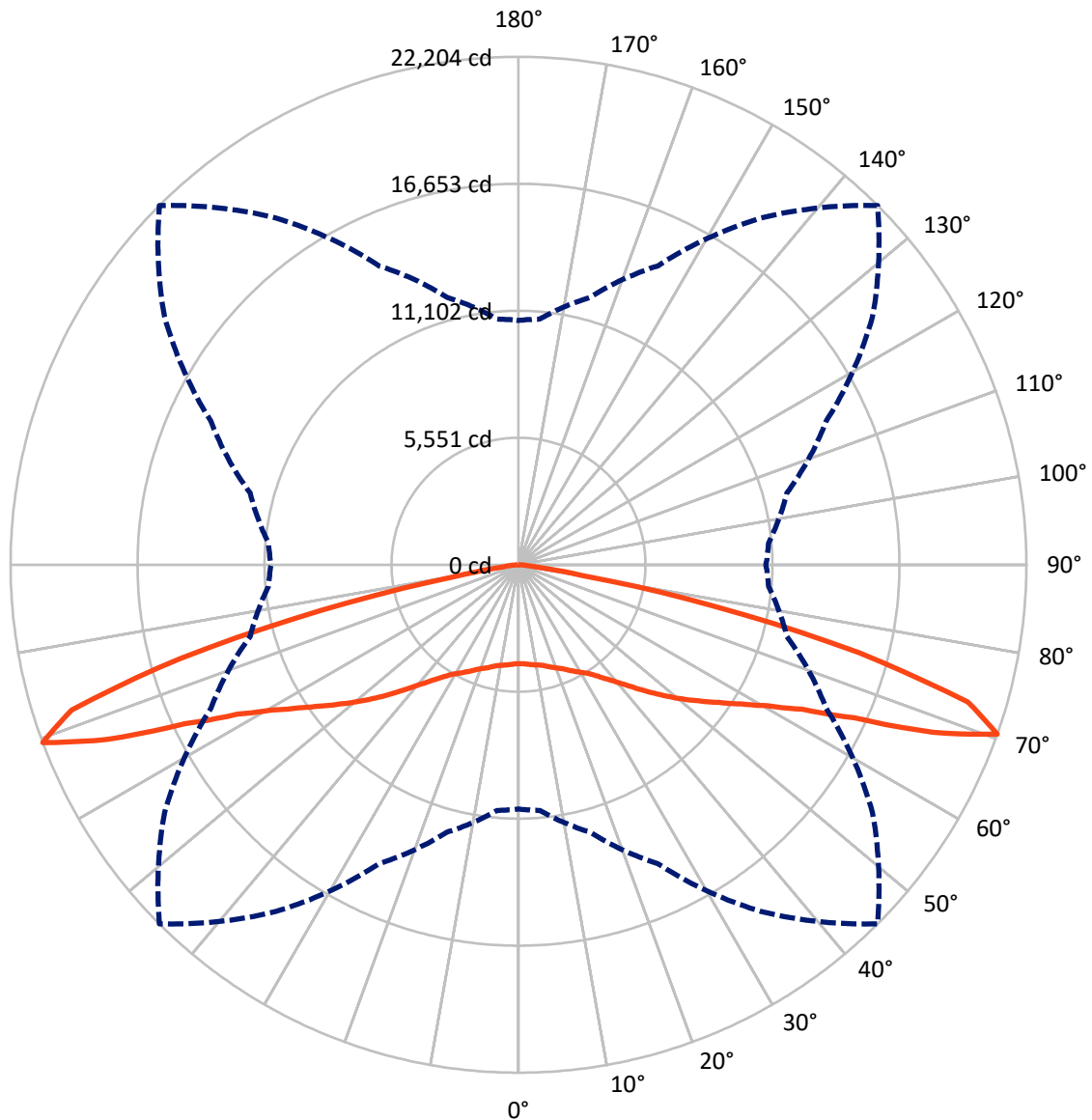
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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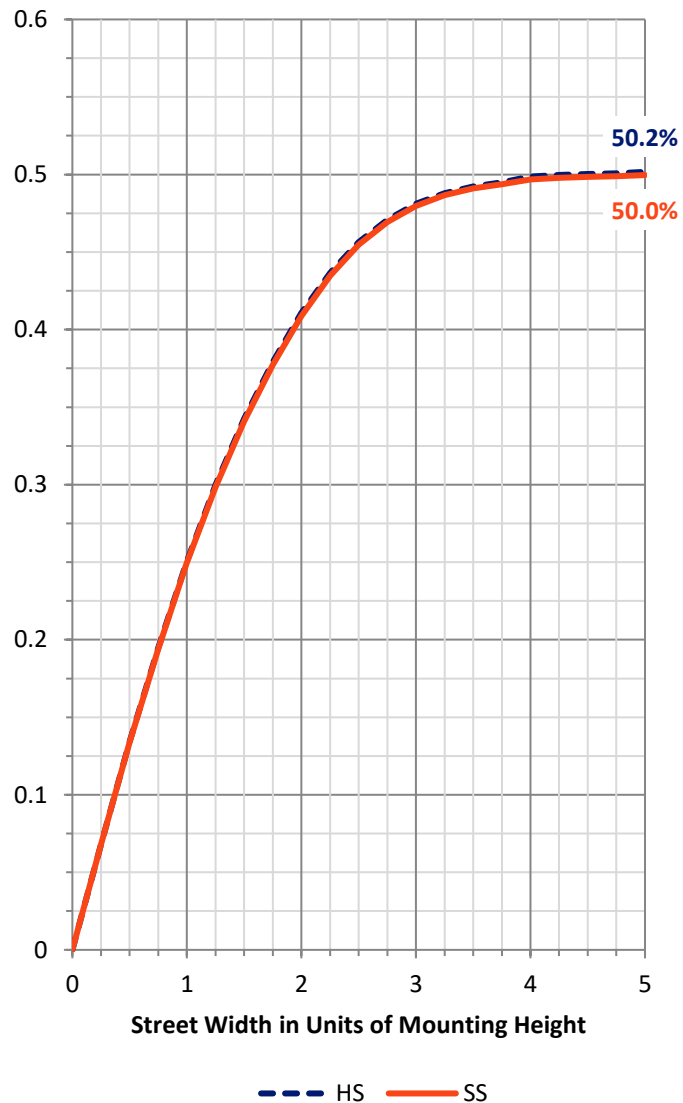
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 22608.4  | 0.0    | 22608.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22608.4  | 0.0    | 22608.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 45216.8  | 0.0    | 45216.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 420.8   | 0.9       |
| 10°-20°   | 1304.8  | 2.9       |
| 20°-30°   | 2331.8  | 5.2       |
| 30°-40°   | 3779.9  | 8.4       |
| 40°-50°   | 6156.8  | 13.6      |
| 50°-60°   | 9387.1  | 20.8      |
| 60°-70°   | 13965.0 | 30.9      |
| 70°-80°   | 7611.4  | 16.8      |
| 80°-90°   | 259.2   | 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°    | 45216.8 | 100.0     |
| 0°-180°   | 45216.8 | 100.0     |

**Coefficient of Utilization**

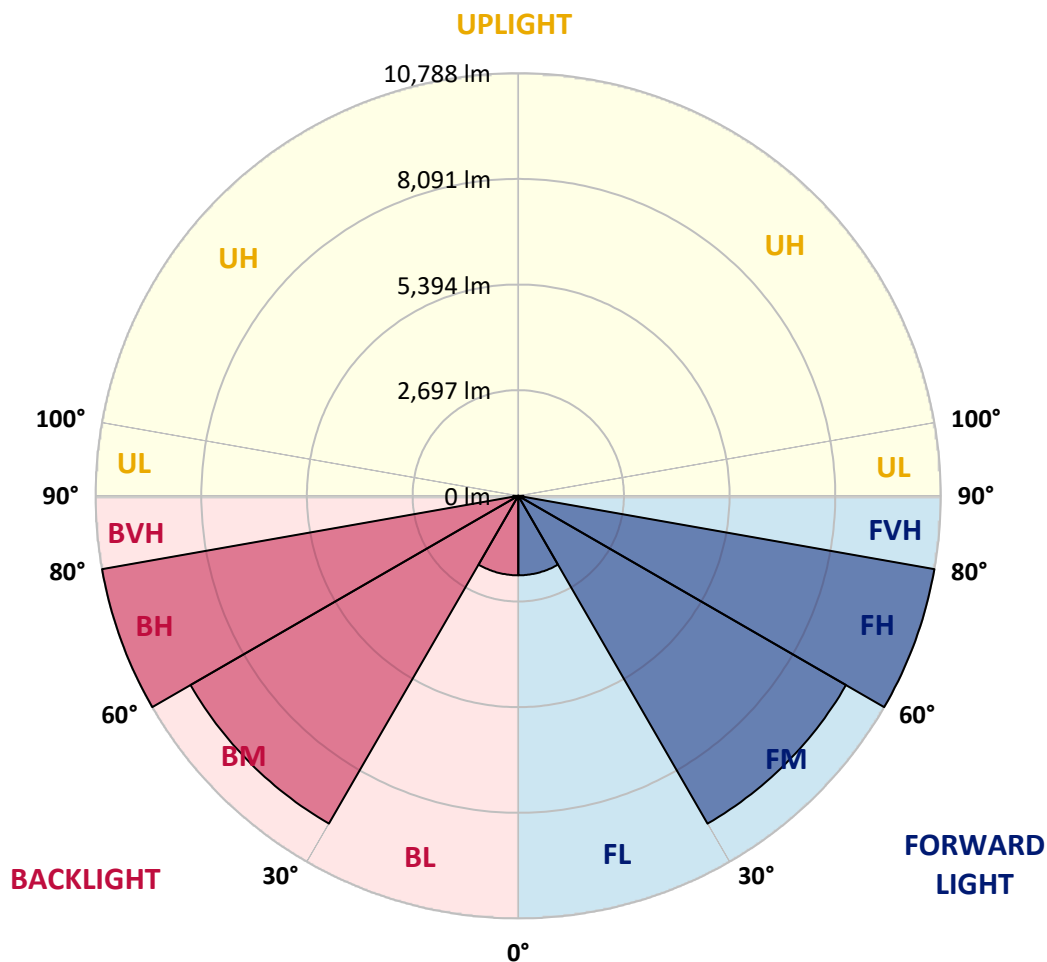


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2028.7  | 4.5       |                         |      |          |
| FM (30°-60°)   | 9661.9  | 21.4      |                         |      |          |
| FH (60°-80°)   | 10788.2 | 23.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 129.6   | 0.3       |                         |      | G2/225   |
| BL (0°-30°)    | 2028.7  | 4.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 9661.9  | 21.4      | B5                      |      |          |
| BH (60°-80°)   | 10788.2 | 23.9      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 129.6   | 0.3       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**  
 Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4331.3  | 4331.3  | 4331.3  | 4331.3  | 4331.3  | 4331.3  | 4331.3  | 4331.3  | 4331.3  | 4331.3  | 4331.3  |
| 2.5°  | 4351.7  | 4356.2  | 4347.2  | 4342.6  | 4338.1  | 4331.3  | 4333.6  | 4345.0  | 4354.0  | 4351.7  | 4354.0  |
| 5°    | 4388.0  | 4392.6  | 4385.8  | 4383.5  | 4374.4  | 4372.1  | 4372.1  | 4383.5  | 4390.3  | 4385.8  | 4388.0  |
| 7.5°  | 4428.9  | 4435.7  | 4424.4  | 4422.2  | 4417.5  | 4413.0  | 4410.8  | 4422.2  | 4428.9  | 4428.9  | 4428.9  |
| 10°   | 4467.5  | 4474.3  | 4465.2  | 4458.4  | 4453.9  | 4453.9  | 4449.3  | 4458.4  | 4469.8  | 4467.5  | 4467.5  |
| 12.5° | 4508.4  | 4512.9  | 4503.8  | 4499.3  | 4499.3  | 4506.1  | 4499.3  | 4503.8  | 4512.9  | 4508.4  | 4506.1  |
| 15°   | 4558.3  | 4560.6  | 4558.3  | 4565.1  | 4576.5  | 4599.2  | 4578.8  | 4574.2  | 4578.8  | 4567.4  | 4567.4  |
| 17.5° | 4626.4  | 4631.0  | 4640.1  | 4656.0  | 4671.8  | 4712.6  | 4676.4  | 4665.0  | 4665.0  | 4642.3  | 4642.3  |
| 20°   | 4710.4  | 4717.3  | 4730.9  | 4758.0  | 4778.5  | 4817.1  | 4780.8  | 4764.9  | 4758.0  | 4728.5  | 4728.5  |
| 22.5° | 4798.9  | 4810.3  | 4830.7  | 4867.0  | 4903.4  | 4939.7  | 4903.4  | 4876.1  | 4855.7  | 4817.1  | 4814.8  |
| 25°   | 4901.1  | 4914.7  | 4946.5  | 5005.5  | 5055.5  | 5107.7  | 5064.5  | 5010.1  | 4969.2  | 4914.7  | 4912.4  |
| 27.5° | 5046.4  | 5062.3  | 5100.9  | 5173.5  | 5237.0  | 5282.4  | 5241.6  | 5171.2  | 5114.4  | 5048.6  | 5046.4  |
| 30°   | 5250.7  | 5266.6  | 5312.0  | 5389.1  | 5432.3  | 5461.8  | 5434.5  | 5380.1  | 5312.0  | 5237.0  | 5237.0  |
| 32.5° | 5514.0  | 5534.5  | 5584.4  | 5657.1  | 5666.1  | 5670.6  | 5661.6  | 5634.3  | 5584.4  | 5493.6  | 5495.8  |
| 35°   | 5847.7  | 5870.4  | 5927.2  | 5986.2  | 5977.1  | 5986.2  | 5972.6  | 5963.4  | 5927.2  | 5822.7  | 5822.7  |
| 37.5° | 6256.3  | 6283.6  | 6342.6  | 6388.0  | 6365.2  | 6354.0  | 6356.2  | 6358.5  | 6338.1  | 6222.3  | 6222.3  |
| 40°   | 6730.8  | 6767.0  | 6810.2  | 6857.9  | 6819.3  | 6785.3  | 6807.9  | 6826.1  | 6807.9  | 6689.9  | 6689.9  |
| 42.5° | 7218.9  | 7271.0  | 7316.4  | 7384.5  | 7352.7  | 7309.7  | 7341.5  | 7361.9  | 7323.3  | 7196.1  | 7205.2  |
| 45°   | 7761.4  | 7811.3  | 7870.4  | 7972.6  | 7949.8  | 7904.4  | 7949.8  | 7954.3  | 7888.5  | 7738.6  | 7754.5  |
| 47.5° | 8322.1  | 8374.4  | 8462.8  | 8599.0  | 8590.0  | 8540.0  | 8599.0  | 8567.3  | 8483.3  | 8303.9  | 8292.6  |
| 50°   | 8853.3  | 8925.9  | 9062.1  | 9252.9  | 9271.0  | 9209.7  | 9289.2  | 9227.9  | 9087.1  | 8862.4  | 8857.8  |
| 52.5° | 9352.7  | 9429.9  | 9645.6  | 9904.4  | 9970.2  | 9890.7  | 9997.4  | 9890.7  | 9679.6  | 9391.4  | 9364.1  |
| 55°   | 9877.1  | 9963.4  | 10219.9 | 10558.1 | 10689.8 | 10630.8 | 10730.6 | 10569.5 | 10269.8 | 9920.3  | 9872.6  |
| 57.5° | 10494.6 | 10546.7 | 10853.2 | 11255.0 | 11477.5 | 11491.2 | 11536.6 | 11264.1 | 10900.9 | 10503.7 | 10449.2 |
| 60°   | 11164.2 | 11236.9 | 11570.6 | 12051.8 | 12403.7 | 12517.2 | 12469.5 | 12065.5 | 11643.2 | 11187.0 | 11114.3 |
| 62.5° | 12022.3 | 12101.8 | 12501.3 | 13077.9 | 13634.0 | 13915.6 | 13729.5 | 13143.8 | 12621.6 | 12074.5 | 11979.2 |
| 65°   | 12732.9 | 12821.4 | 13543.3 | 14571.6 | 15584.1 | 16149.3 | 15681.7 | 14603.4 | 13663.6 | 12891.7 | 12764.6 |
| 67.5° | 12217.6 | 12326.5 | 13459.3 | 15347.9 | 17865.5 | 19552.2 | 17951.7 | 15579.5 | 13738.5 | 12692.0 | 12535.3 |
| 70°   | 10678.4 | 10780.6 | 12101.8 | 14410.5 | 18507.9 | 22203.7 | 18893.8 | 14834.9 | 12144.9 | 10973.5 | 10816.9 |
| 72.5° | 7089.4  | 7418.6  | 8755.7  | 11525.2 | 16526.2 | 20546.4 | 16689.6 | 11291.4 | 8122.3  | 7073.5  | 6844.2  |
| 75°   | 2351.8  | 2615.1  | 3527.7  | 5974.8  | 11068.9 | 15366.2 | 10537.7 | 5287.1  | 2794.5  | 2011.3  | 1902.3  |
| 77.5° | 592.4   | 683.3   | 942.1   | 1709.4  | 4415.3  | 8748.9  | 3975.0  | 1396.0  | 760.4   | 531.2   | 474.5   |
| 80°   | 288.3   | 317.9   | 454.0   | 569.8   | 1105.6  | 2780.8  | 1037.4  | 535.8   | 358.6   | 277.0   | 254.2   |
| 82.5° | 158.9   | 161.1   | 256.6   | 322.4   | 410.9   | 719.7   | 426.8   | 313.2   | 206.5   | 168.0   | 168.0   |
| 85°   | 97.6    | 95.3    | 136.2   | 172.5   | 172.5   | 256.6   | 204.3   | 172.5   | 118.1   | 104.4   | 109.0   |
| 87.5° | 38.6    | 38.6    | 49.9    | 54.5    | 47.7    | 65.8    | 52.2    | 56.8    | 45.4    | 43.2    | 45.4    |
| 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)