

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: LUMARK

Report Number: P969387

Luminaire Tested: **NAV-SB5D-760-U-5NQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P969387  
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: LUMARK  
Catalog Number: NAV-SB5D-760-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 58412.7 lumens  
Efficiency: N/A  
Efficacy: 160.1 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): 364.9  
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

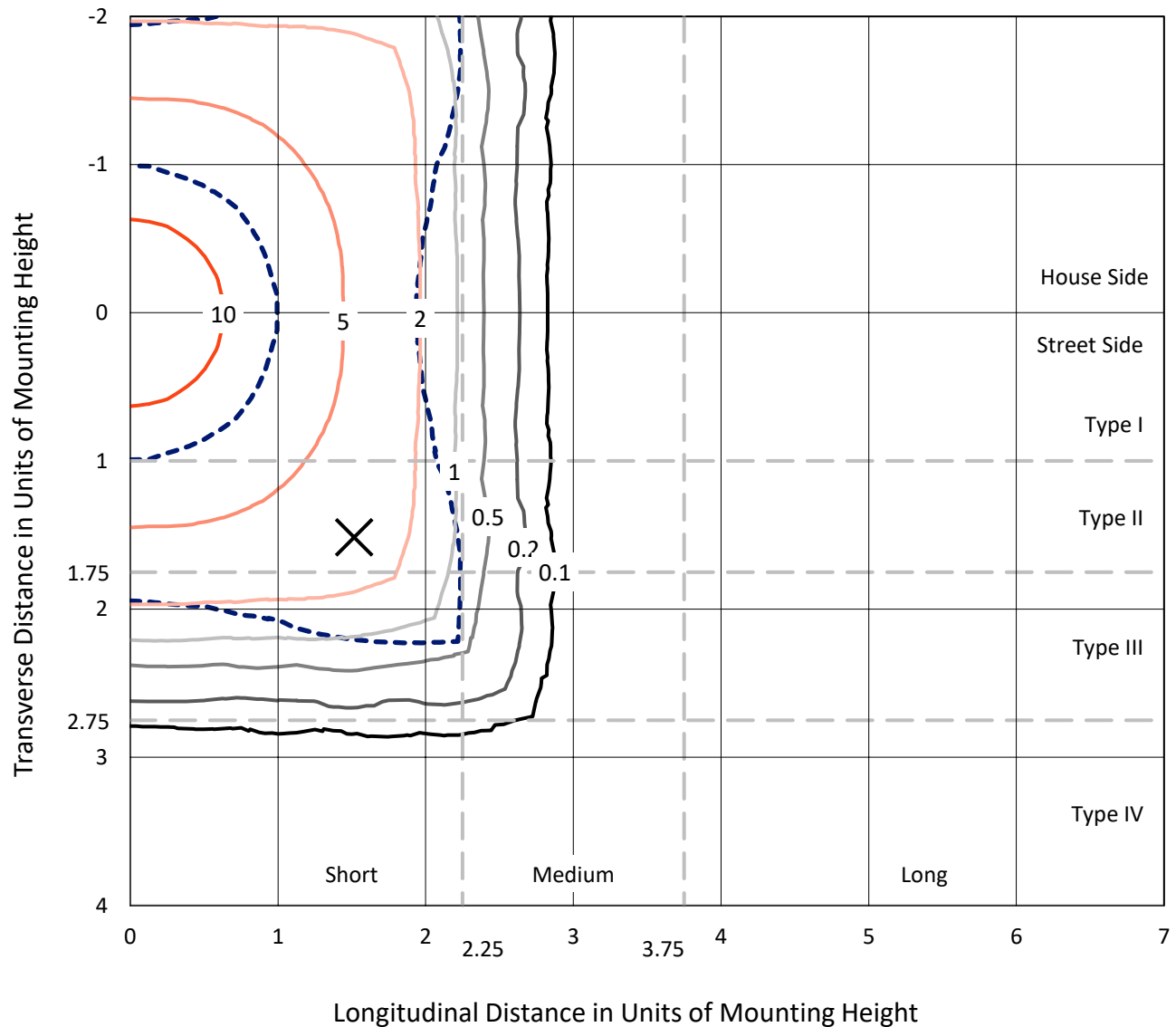


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## Iso-Footcandle Lines of Horizontal Illumination

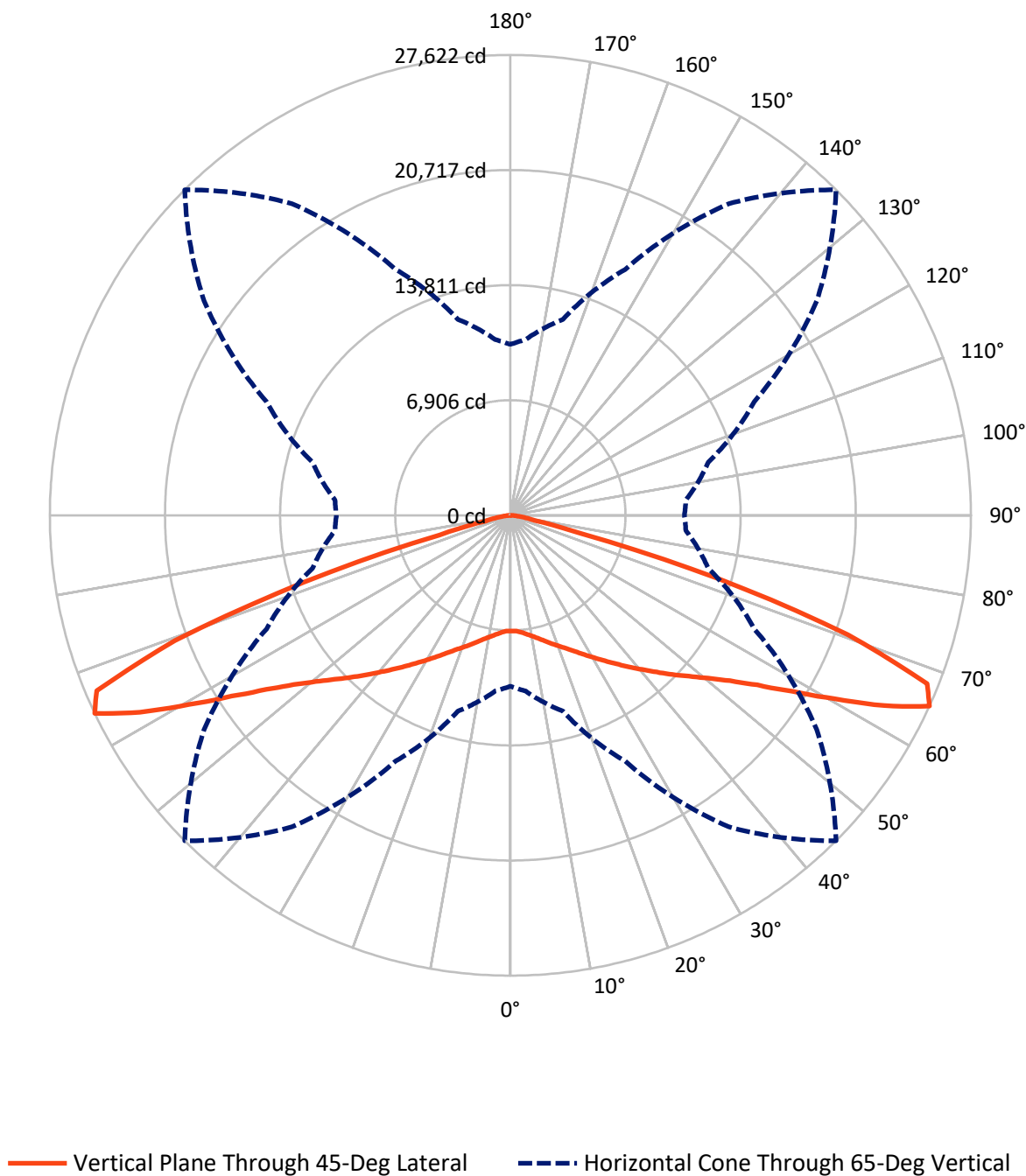
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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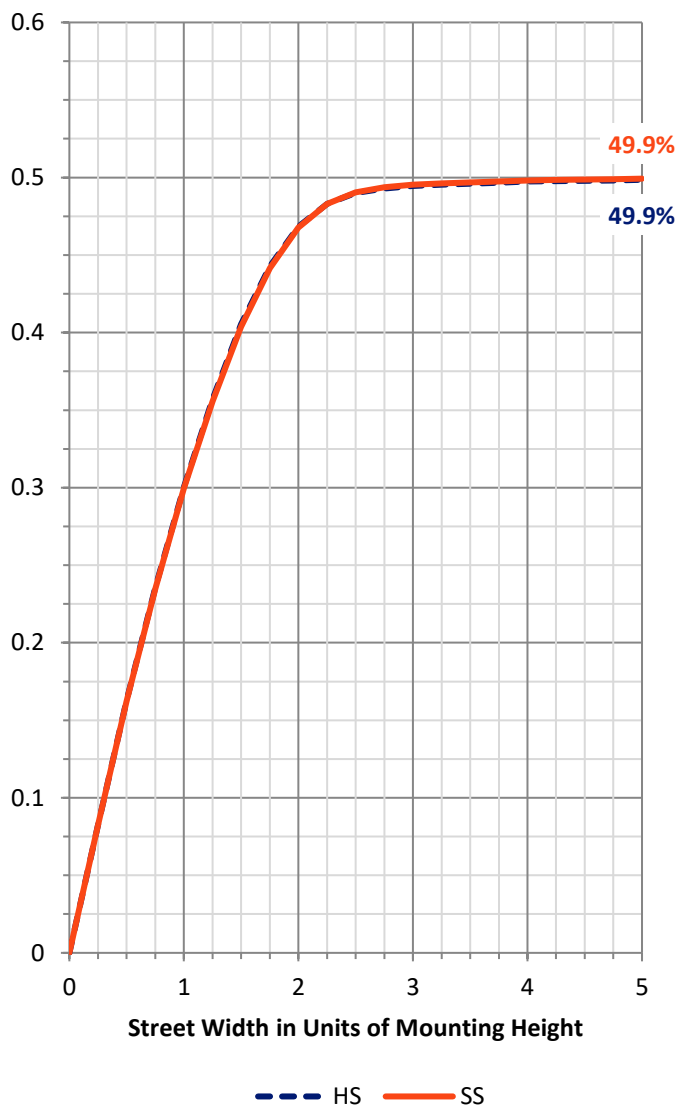
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 29206.3  | 0.0    | 29206.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 29206.3  | 0.0    | 29206.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 58412.7  | 0.0    | 58412.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 686.1   | 1.2       |
| 10°-20°   | 2238.7  | 3.8       |
| 20°-30°   | 4226.9  | 7.2       |
| 30°-40°   | 6921.4  | 11.8      |
| 40°-50°   | 10731.7 | 18.4      |
| 50°-60°   | 15852.9 | 27.1      |
| 60°-70°   | 15090.5 | 25.8      |
| 70°-80°   | 2435.1  | 4.2       |
| 80°-90°   | 229.5   | 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°    | 58412.7 | 100.0     |
| 0°-180°   | 58412.7 | 100.0     |

**Coefficient of Utilization**



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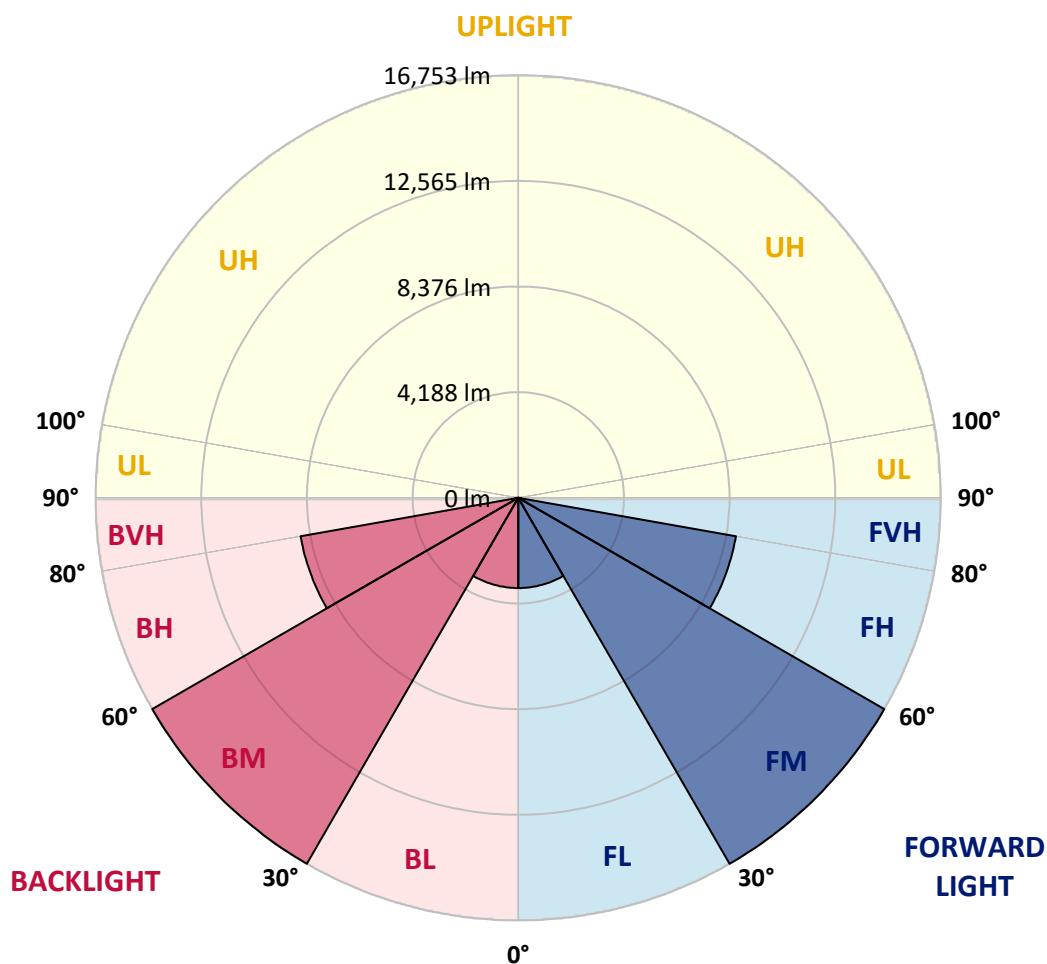
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3575.8  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 16753.0 | 28.7      |                         |      |          |
| FH   | (60°-80°)   | 8762.8  | 15.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 114.8   | 0.2       |                         |      | G2/225   |
| BL   | (0°-30°)    | 3575.8  | 6.1       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 16753.0 | 28.7      | B5                      |      |          |
| BH   | (60°-80°)   | 8762.8  | 15.0      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 114.8   | 0.2       |                         |      | 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°    | 6951.7  | 6951.7  | 6951.7  | 6951.7  | 6951.7  | 6951.7  | 6951.7  | 6951.7  | 6951.7  | 6951.7  | 6951.7  |
| 2.5°  | 6998.6  | 6975.1  | 6992.8  | 6978.1  | 6966.3  | 6954.6  | 6960.5  | 6981.0  | 6989.8  | 6992.8  | 6992.8  |
| 5°    | 7092.4  | 7071.9  | 7080.6  | 7080.6  | 7060.1  | 7054.3  | 7057.2  | 7071.9  | 7089.4  | 7089.4  | 7089.4  |
| 7.5°  | 7244.8  | 7224.3  | 7244.8  | 7233.0  | 7215.5  | 7209.6  | 7206.7  | 7218.4  | 7244.8  | 7244.8  | 7236.0  |
| 10°   | 7429.4  | 7405.9  | 7417.7  | 7411.8  | 7391.3  | 7382.6  | 7379.6  | 7397.1  | 7420.6  | 7417.7  | 7411.8  |
| 12.5° | 7631.6  | 7605.3  | 7620.0  | 7602.3  | 7596.5  | 7587.7  | 7587.7  | 7584.7  | 7599.4  | 7587.7  | 7593.5  |
| 15°   | 7857.3  | 7839.7  | 7845.6  | 7833.9  | 7842.7  | 7836.7  | 7813.4  | 7801.6  | 7807.4  | 7789.9  | 7792.8  |
| 17.5° | 8123.9  | 8082.9  | 8103.4  | 8097.6  | 8097.6  | 8109.3  | 8071.3  | 8056.6  | 8068.3  | 8050.8  | 8065.4  |
| 20°   | 8431.8  | 8390.6  | 8399.5  | 8387.8  | 8373.1  | 8384.8  | 8338.0  | 8349.6  | 8358.5  | 8346.7  | 8373.1  |
| 22.5° | 8768.8  | 8716.0  | 8713.1  | 8719.0  | 8686.7  | 8689.6  | 8657.4  | 8686.7  | 8704.3  | 8672.0  | 8704.3  |
| 25°   | 9114.6  | 9058.8  | 9097.0  | 9082.3  | 9041.3  | 9050.1  | 9026.7  | 9056.0  | 9070.6  | 9029.6  | 9076.5  |
| 27.5° | 9480.9  | 9442.8  | 9478.0  | 9486.8  | 9437.0  | 9472.1  | 9437.0  | 9463.3  | 9478.0  | 9416.5  | 9463.3  |
| 30°   | 9908.8  | 9870.8  | 9902.9  | 9926.4  | 9867.8  | 9923.4  | 9894.1  | 9911.8  | 9914.6  | 9841.4  | 9885.4  |
| 32.5° | 10374.7 | 10316.2 | 10398.2 | 10410.0 | 10345.5 | 10412.9 | 10374.7 | 10398.2 | 10412.9 | 10313.2 | 10380.7 |
| 35°   | 10943.3 | 10870.1 | 10963.9 | 10949.3 | 10893.5 | 10949.3 | 10914.0 | 10949.3 | 10984.4 | 10864.2 | 10937.5 |
| 37.5° | 11555.8 | 11479.7 | 11579.3 | 11553.0 | 11500.2 | 11538.3 | 11517.8 | 11541.2 | 11597.0 | 11467.9 | 11547.0 |
| 40°   | 12230.0 | 12136.2 | 12271.0 | 12224.0 | 12174.2 | 12168.4 | 12180.1 | 12194.7 | 12268.0 | 12124.4 | 12171.4 |
| 42.5° | 12950.9 | 12851.2 | 13053.5 | 12980.2 | 12909.9 | 12863.0 | 12901.1 | 12930.4 | 13000.7 | 12839.6 | 12924.5 |
| 45°   | 13774.5 | 13660.2 | 13923.9 | 13836.0 | 13724.6 | 13627.9 | 13689.5 | 13733.4 | 13836.0 | 13642.5 | 13742.2 |
| 47.5° | 14682.9 | 14554.0 | 14835.3 | 14809.0 | 14627.3 | 14416.3 | 14556.9 | 14682.9 | 14759.2 | 14524.7 | 14603.8 |
| 50°   | 15571.0 | 15471.4 | 15840.6 | 15872.8 | 15650.1 | 15354.1 | 15550.5 | 15740.9 | 15761.4 | 15453.7 | 15491.8 |
| 52.5° | 16403.3 | 16303.6 | 16840.0 | 17042.2 | 16842.9 | 16491.2 | 16699.3 | 16892.7 | 16737.4 | 16338.8 | 16350.6 |
| 55°   | 17068.6 | 16986.5 | 17669.4 | 18191.1 | 18258.4 | 17968.4 | 18091.5 | 18085.5 | 17575.6 | 16963.0 | 16983.6 |
| 57.5° | 17229.7 | 17218.1 | 18079.7 | 19184.6 | 19888.0 | 19923.1 | 19679.9 | 19058.5 | 17959.5 | 17135.9 | 17083.3 |
| 60°   | 16497.1 | 16570.4 | 17754.3 | 19703.3 | 21579.0 | 22358.5 | 21306.5 | 19533.3 | 17522.9 | 16379.9 | 16245.0 |
| 62.5° | 14304.9 | 14498.3 | 15925.6 | 19070.2 | 22944.7 | 25160.4 | 22610.6 | 18812.3 | 15729.2 | 14237.5 | 14149.6 |
| 65°   | 10251.7 | 10588.8 | 12165.4 | 16274.3 | 22821.6 | 27622.1 | 22423.0 | 16142.5 | 12282.7 | 10562.3 | 10436.3 |
| 67.5° | 4651.0  | 4994.0  | 6333.3  | 11142.7 | 19838.2 | 26953.9 | 19791.2 | 11259.8 | 6649.8  | 5011.5  | 4938.2  |
| 70°   | 1685.2  | 1743.8  | 2174.6  | 4460.6  | 12678.3 | 21476.4 | 13220.6 | 4492.8  | 2312.3  | 1858.1  | 1834.6  |
| 72.5° | 1019.9  | 1028.7  | 1119.5  | 1597.3  | 4404.9  | 13038.8 | 4592.4  | 1650.0  | 1143.0  | 1014.0  | 1031.7  |
| 75°   | 647.7   | 641.9   | 797.1   | 975.9   | 1562.1  | 4399.0  | 1638.3  | 975.9   | 794.3   | 723.9   | 729.8   |
| 77.5° | 466.0   | 480.6   | 571.5   | 729.8   | 984.7   | 1491.8  | 967.2   | 697.5   | 571.5   | 468.9   | 477.8   |
| 80°   | 348.8   | 357.5   | 416.2   | 568.6   | 691.7   | 929.1   | 615.4   | 515.8   | 430.8   | 293.0   | 301.9   |
| 82.5° | 252.0   | 252.0   | 272.5   | 413.3   | 422.0   | 501.1   | 334.2   | 363.4   | 284.2   | 208.1   | 208.1   |
| 85°   | 149.4   | 146.6   | 169.9   | 246.2   | 219.8   | 184.6   | 152.4   | 222.7   | 178.8   | 128.9   | 126.0   |
| 87.5° | 52.8    | 55.7    | 52.8    | 70.3    | 58.6    | 49.8    | 46.8    | 61.5    | 49.8    | 44.0    | 41.0    |
| 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)