

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: P971496

Luminaire Tested: **NAV-SB6D-760-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971496  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-760-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 67687.9 lumens  
Efficiency: N/A  
Efficacy: 153.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
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



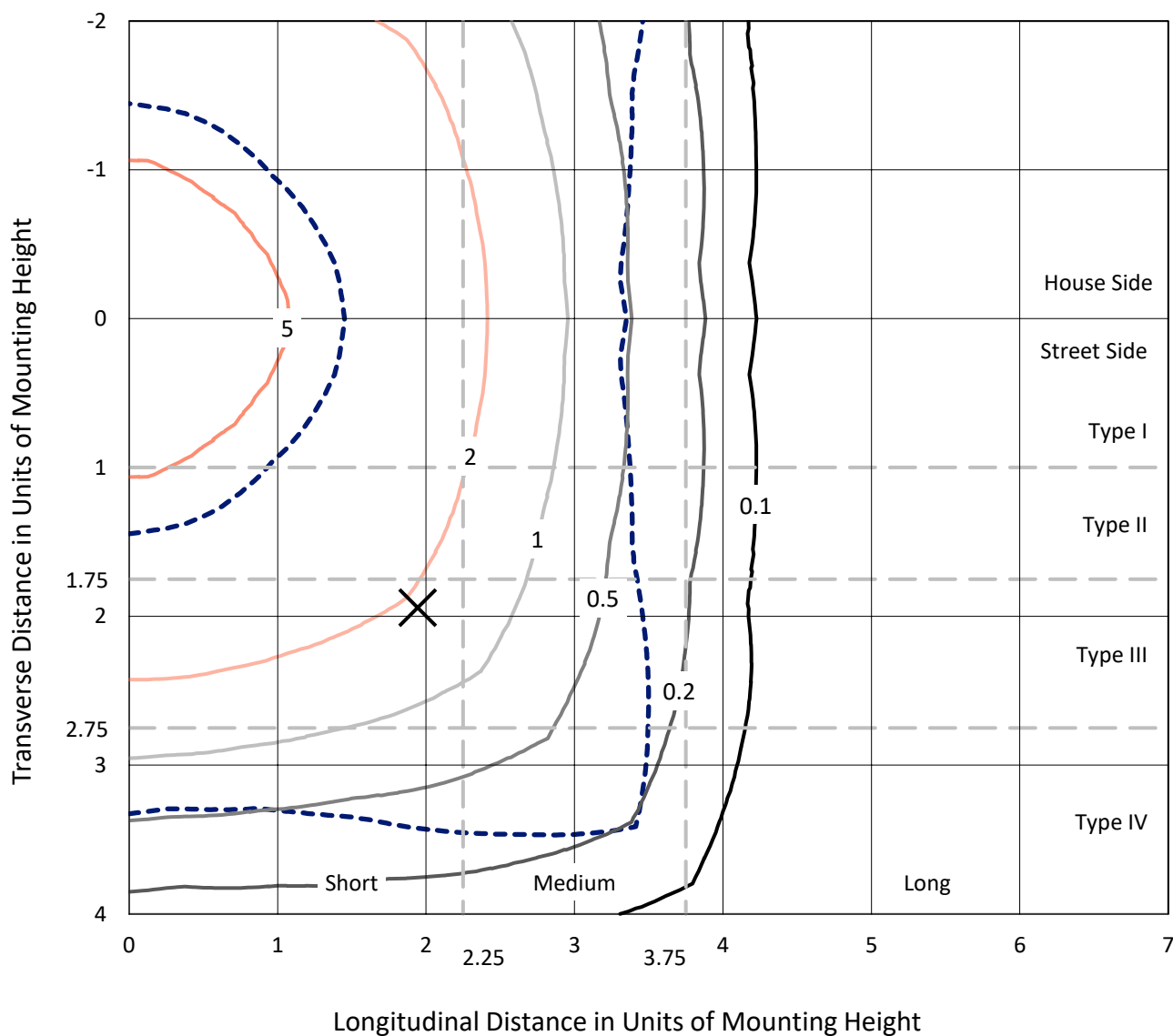
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

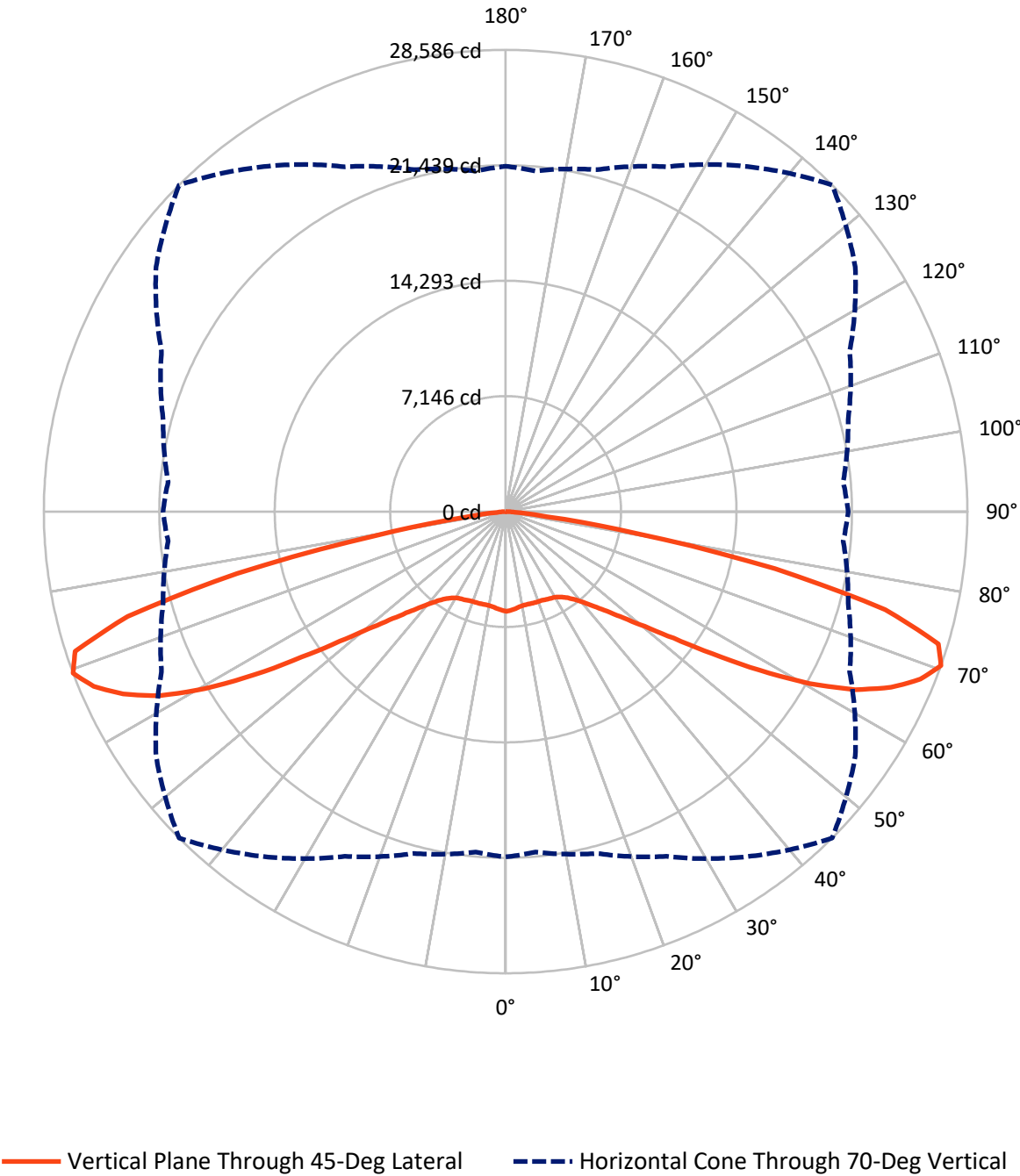


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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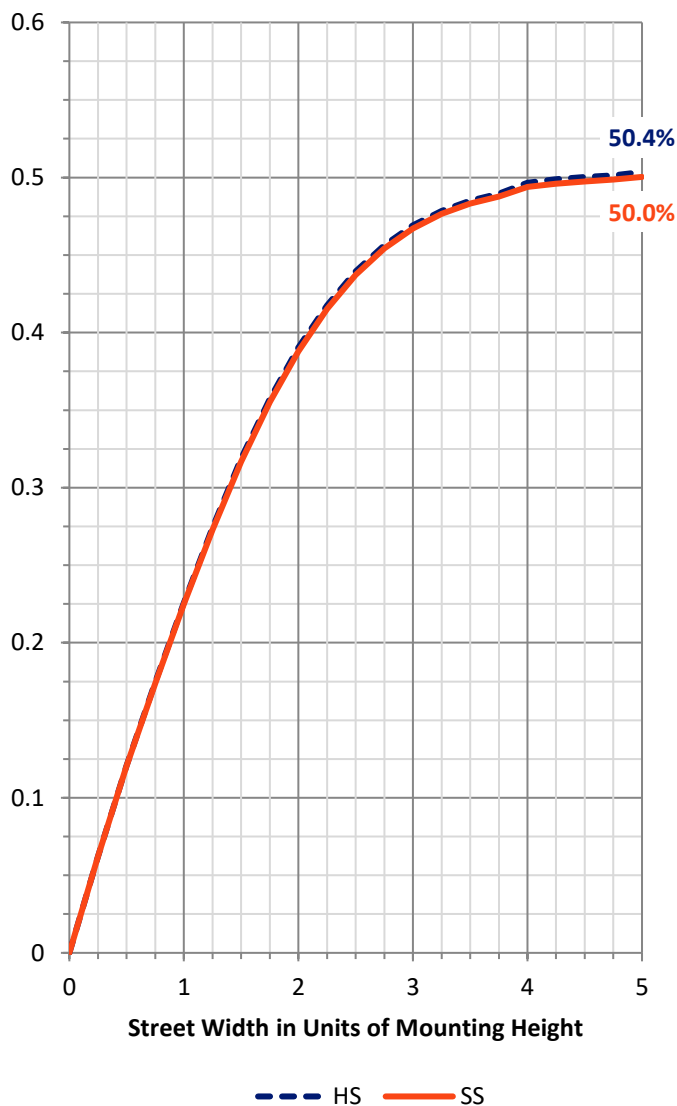
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 33843.9  | 0.0    | 33843.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 33843.9  | 0.0    | 33843.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 67687.9  | 0.0    | 67687.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 574.4   | 0.8       |
| 10°-20°   | 1686.5  | 2.5       |
| 20°-30°   | 2806.6  | 4.1       |
| 30°-40°   | 4244.4  | 6.3       |
| 40°-50°   | 7053.2  | 10.4      |
| 50°-60°   | 13309.1 | 19.7      |
| 60°-70°   | 22473.0 | 33.2      |
| 70°-80°   | 14767.1 | 21.8      |
| 80°-90°   | 773.6   | 1.1       |
| 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°    | 67687.9 | 100.0     |
| 0°-180°   | 67687.9 | 100.0     |

**Coefficient of Utilization**



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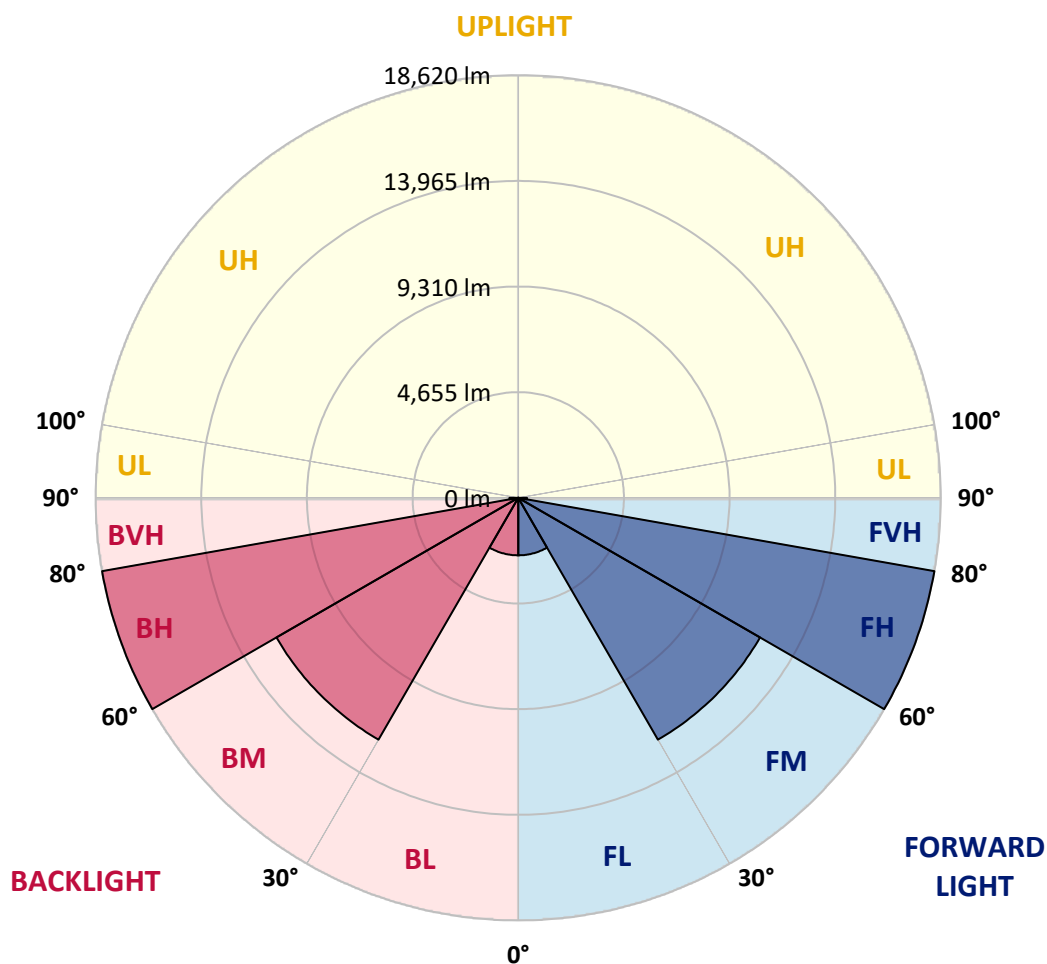
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2533.7  | 3.7       |                         |      |        |
| FM   | (30°-60°)   | 12303.4 | 18.2      |                         |      |        |
| FH   | (60°-80°)   | 18620.0 | 27.5      |                         |      | G5     |
| FVH  | (80°-90°)   | 386.8   | 0.6       |                         |      | G3/500 |
| BL   | (0°-30°)    | 2533.7  | 3.7       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 12303.4 | 18.2      | B5                      |      |        |
| BH   | (60°-80°)   | 18620.0 | 27.5      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 386.8   | 0.6       |                         |      | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6174.5  | 6174.5  | 6174.5  | 6174.5  | 6174.5  | 6174.5  | 6174.5  | 6174.5  | 6174.5  | 6174.5  | 6174.5  |
| 2.5°  | 6135.8  | 6153.4  | 6146.3  | 6132.3  | 6132.3  | 6121.7  | 6132.3  | 6139.3  | 6149.9  | 6156.9  | 6153.4  |
| 5°    | 6054.9  | 6068.9  | 6065.4  | 6054.9  | 6058.4  | 6047.8  | 6054.9  | 6065.4  | 6072.5  | 6076.0  | 6076.0  |
| 7.5°  | 5984.6  | 5998.6  | 5991.5  | 5974.0  | 5974.0  | 5963.4  | 5966.9  | 5977.5  | 5988.0  | 5991.5  | 5991.5  |
| 10°   | 5966.9  | 5981.0  | 5959.9  | 5931.8  | 5921.2  | 5907.1  | 5910.7  | 5921.2  | 5942.3  | 5952.9  | 5952.9  |
| 12.5° | 5974.0  | 5984.6  | 5963.4  | 5921.2  | 5910.7  | 5896.5  | 5896.5  | 5907.1  | 5935.3  | 5949.3  | 5952.9  |
| 15°   | 5995.1  | 6005.6  | 5974.0  | 5928.2  | 5917.6  | 5907.1  | 5903.6  | 5917.6  | 5949.3  | 5974.0  | 5977.5  |
| 17.5° | 6033.8  | 6044.3  | 5995.1  | 5931.8  | 5917.6  | 5921.2  | 5917.6  | 5928.2  | 5977.5  | 6023.2  | 6023.2  |
| 20°   | 6068.9  | 6076.0  | 6009.2  | 5931.8  | 5917.6  | 5921.2  | 5917.6  | 5938.7  | 6002.1  | 6065.4  | 6068.9  |
| 22.5° | 6079.5  | 6086.6  | 6023.2  | 5956.4  | 5945.8  | 5949.3  | 5945.8  | 5966.9  | 6026.7  | 6090.0  | 6090.0  |
| 25°   | 6083.1  | 6093.6  | 6044.3  | 5991.5  | 6009.2  | 6016.1  | 6009.2  | 6012.6  | 6058.4  | 6114.7  | 6111.2  |
| 27.5° | 6135.8  | 6149.9  | 6104.2  | 6058.4  | 6068.9  | 6065.4  | 6076.0  | 6086.6  | 6121.7  | 6178.0  | 6163.9  |
| 30°   | 6244.9  | 6255.4  | 6216.7  | 6171.0  | 6163.9  | 6139.3  | 6171.0  | 6206.2  | 6244.9  | 6294.1  | 6283.6  |
| 32.5° | 6424.3  | 6445.4  | 6396.1  | 6346.9  | 6315.2  | 6301.2  | 6325.8  | 6385.5  | 6438.3  | 6491.1  | 6470.0  |
| 35°   | 6723.4  | 6737.4  | 6691.7  | 6600.2  | 6543.9  | 6543.9  | 6565.0  | 6642.4  | 6726.9  | 6793.7  | 6769.1  |
| 37.5° | 7145.6  | 7163.1  | 7082.2  | 6973.2  | 6888.7  | 6888.7  | 6916.8  | 6997.8  | 7124.5  | 7219.4  | 7184.2  |
| 40°   | 7659.2  | 7683.8  | 7581.8  | 7469.2  | 7388.3  | 7374.3  | 7409.4  | 7500.8  | 7620.5  | 7740.1  | 7701.4  |
| 42.5° | 8278.4  | 8306.6  | 8172.8  | 8074.3  | 8011.0  | 8011.0  | 8028.6  | 8113.1  | 8222.1  | 8369.8  | 8359.3  |
| 45°   | 9070.0  | 9119.2  | 8936.4  | 8837.8  | 8778.0  | 8792.0  | 8802.6  | 8876.5  | 8975.0  | 9143.9  | 9136.8  |
| 47.5° | 10012.9 | 10062.1 | 9868.6  | 9766.6  | 9756.1  | 9822.9  | 9780.7  | 9833.4  | 9886.2  | 10079.7 | 10023.5 |
| 50°   | 11082.4 | 11166.9 | 11033.2 | 11026.1 | 11047.2 | 11170.3 | 11071.8 | 11100.0 | 11040.2 | 11163.4 | 11089.5 |
| 52.5° | 12391.2 | 12514.3 | 12489.7 | 12532.0 | 12767.7 | 13021.0 | 12795.8 | 12697.3 | 12472.1 | 12510.8 | 12380.7 |
| 55°   | 13977.9 | 14164.4 | 14199.6 | 14452.9 | 14987.7 | 15504.9 | 15026.4 | 14628.8 | 14150.3 | 14062.4 | 13925.1 |
| 57.5° | 15782.8 | 15930.6 | 16099.5 | 16616.6 | 17615.8 | 18534.0 | 17615.8 | 16736.2 | 15983.3 | 15803.9 | 15677.3 |
| 60°   | 17724.9 | 17907.8 | 18069.6 | 18833.1 | 20317.8 | 21608.9 | 20289.7 | 18892.9 | 17897.2 | 17654.5 | 17443.4 |
| 62.5° | 19811.2 | 20046.9 | 20159.5 | 21007.4 | 22738.4 | 24279.4 | 22763.0 | 21070.7 | 19966.0 | 19705.6 | 19494.6 |
| 65°   | 21813.0 | 22006.5 | 22133.2 | 23037.4 | 24691.0 | 26235.5 | 24803.6 | 23135.9 | 21999.5 | 21658.2 | 21489.3 |
| 67.5° | 22745.4 | 22850.9 | 23160.5 | 24184.4 | 25929.4 | 27692.0 | 26224.9 | 24293.4 | 23023.3 | 22425.3 | 22432.2 |
| 70°   | 21380.3 | 21165.7 | 21911.5 | 23551.0 | 26077.1 | 28585.6 | 26414.9 | 23501.8 | 21946.8 | 20975.7 | 21208.0 |
| 72.5° | 16521.7 | 16152.3 | 17446.9 | 20250.9 | 24388.4 | 28015.7 | 24557.3 | 20409.3 | 18252.6 | 16282.4 | 16771.5 |
| 75°   | 8989.0  | 8570.4  | 10357.7 | 13904.0 | 19448.8 | 24282.9 | 19895.7 | 14301.6 | 11532.8 | 8922.2  | 9502.8  |
| 77.5° | 2536.7  | 2378.3  | 3820.8  | 6726.9  | 11698.1 | 17049.3 | 12148.5 | 6874.7  | 4531.5  | 2688.0  | 2987.0  |
| 80°   | 777.6   | 752.9   | 1020.3  | 2026.5  | 4967.8  | 8165.9  | 4774.2  | 2051.1  | 1298.3  | 819.8   | 865.5   |
| 82.5° | 460.8   | 422.2   | 506.7   | 738.8   | 1266.6  | 2564.8  | 1231.3  | 770.5   | 619.2   | 415.1   | 450.4   |
| 85°   | 263.8   | 246.3   | 299.1   | 358.9   | 425.7   | 545.3   | 355.4   | 365.9   | 330.7   | 221.6   | 232.2   |
| 87.5° | 109.1   | 98.5    | 116.1   | 112.5   | 98.5    | 126.7   | 95.0    | 112.5   | 133.7   | 87.9    | 80.9    |
| 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)