

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: P970348

Luminaire Tested: **NAV-SB6B-735-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970348  
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-SB6B-735-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36676.5 lumens  
Efficiency: N/A  
Efficacy: 166.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 220.4  
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

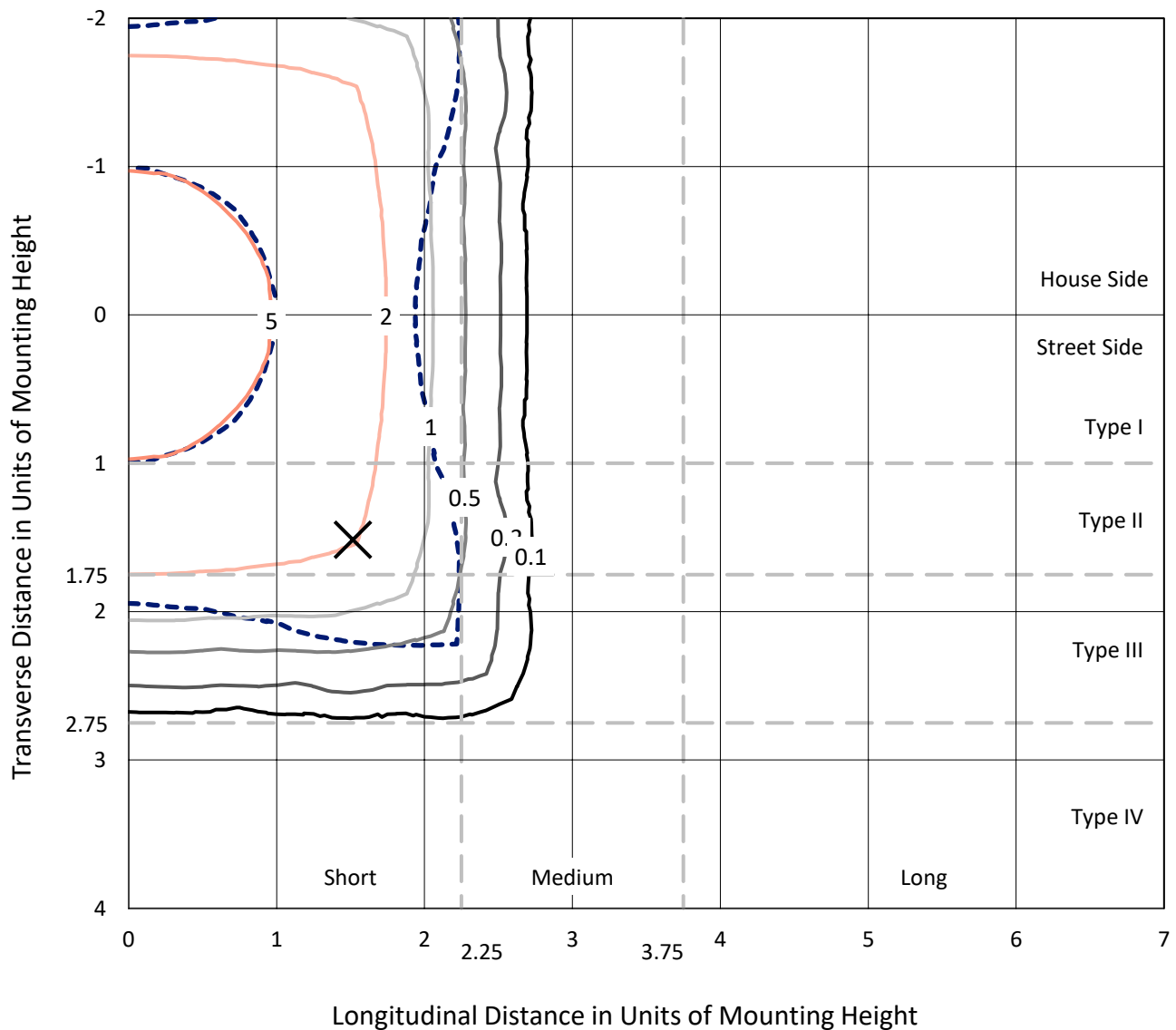


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## Iso-Footcandle Lines of Horizontal Illumination

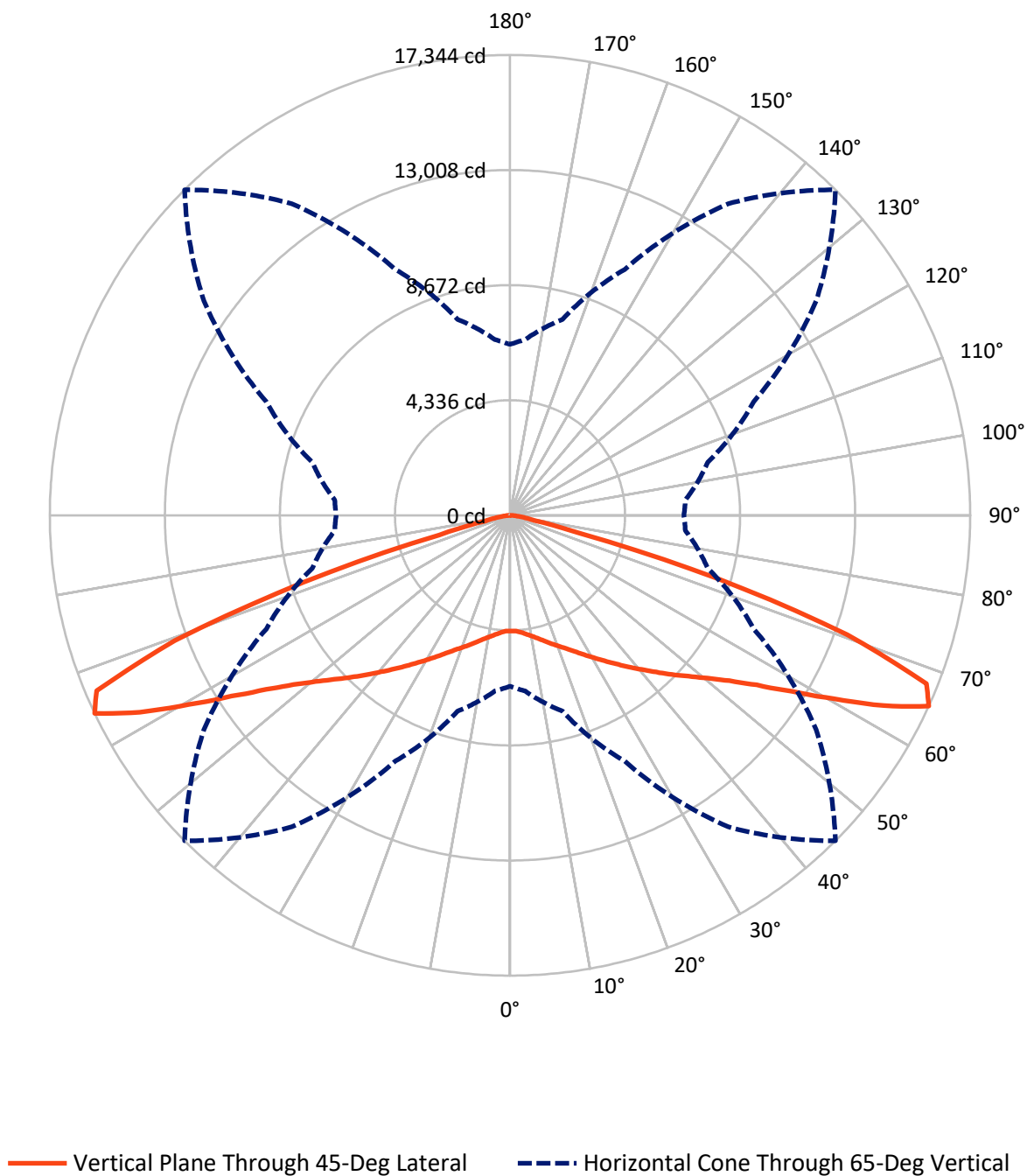
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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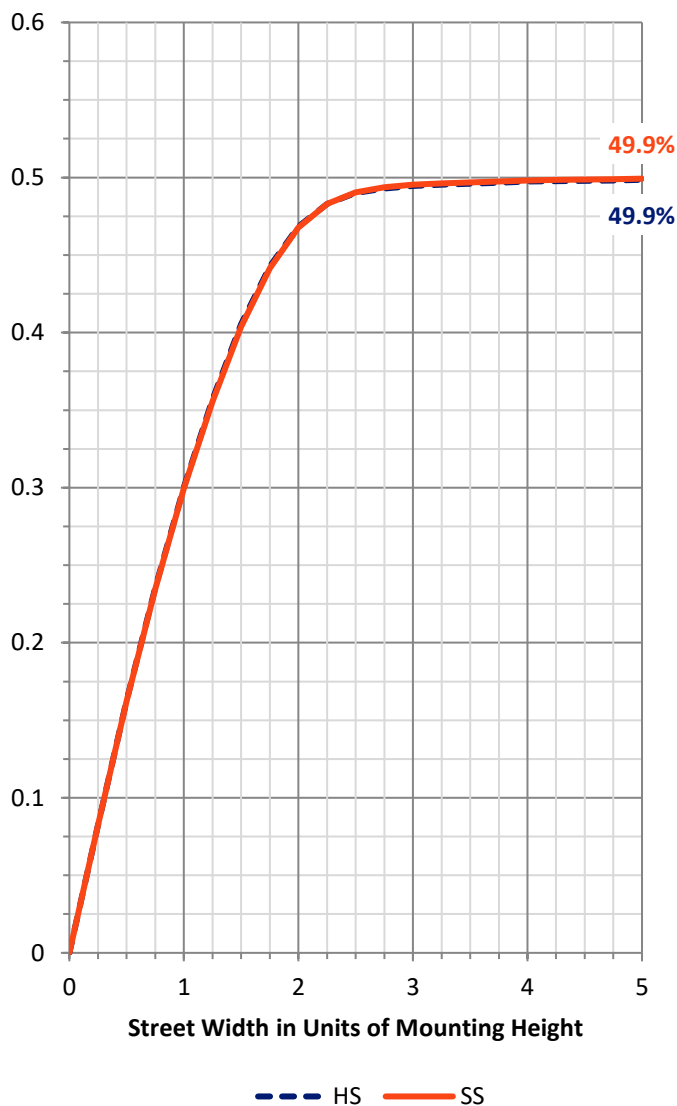
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18338.3  | 0.0    | 18338.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18338.3  | 0.0    | 18338.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 36676.5  | 0.0    | 36676.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 430.8   | 1.2       |
| 10°-20°   | 1405.6  | 3.8       |
| 20°-30°   | 2654.0  | 7.2       |
| 30°-40°   | 4345.8  | 11.8      |
| 40°-50°   | 6738.3  | 18.4      |
| 50°-60°   | 9953.8  | 27.1      |
| 60°-70°   | 9475.1  | 25.8      |
| 70°-80°   | 1528.9  | 4.2       |
| 80°-90°   | 144.1   | 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°    | 36676.5 | 100.0     |
| 0°-180°   | 36676.5 | 100.0     |

**Coefficient of Utilization**



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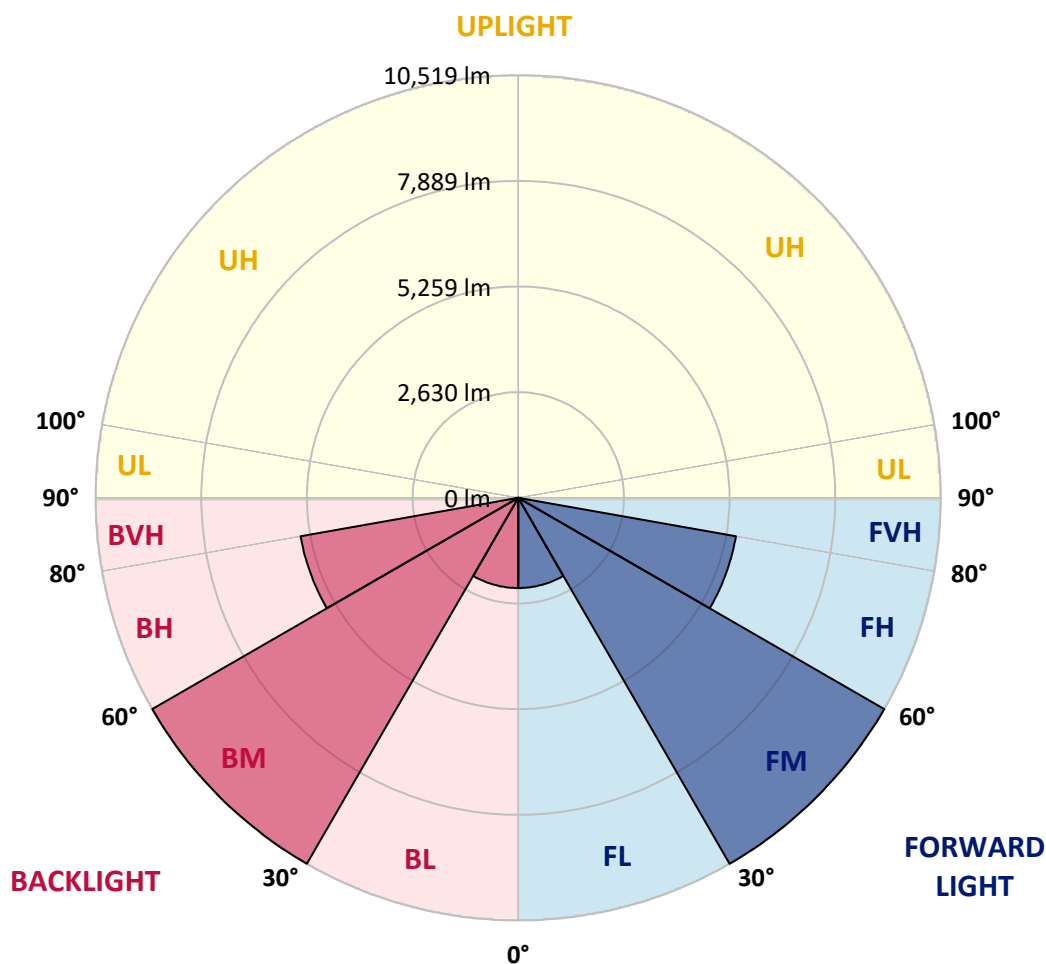
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2245.2  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 10519.0 | 28.7      |                         |      |         |
| FH   | (60°-80°)   | 5502.0  | 15.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 72.1    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2245.2  | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 10519.0 | 28.7      | B5                      |      |         |
| BH   | (60°-80°)   | 5502.0  | 15.0      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 72.1    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4364.9  | 4364.9  | 4364.9  | 4364.9  | 4364.9  | 4364.9  | 4364.9  | 4364.9  | 4364.9  | 4364.9  | 4364.9  |
| 2.5°  | 4394.3  | 4379.6  | 4390.6  | 4381.5  | 4374.1  | 4366.7  | 4370.4  | 4383.3  | 4388.8  | 4390.6  | 4390.6  |
| 5°    | 4453.2  | 4440.3  | 4445.8  | 4445.8  | 4432.9  | 4429.3  | 4431.1  | 4440.3  | 4451.4  | 4451.4  | 4451.4  |
| 7.5°  | 4548.8  | 4536.0  | 4548.8  | 4541.6  | 4530.5  | 4526.8  | 4525.0  | 4532.3  | 4548.8  | 4548.8  | 4543.4  |
| 10°   | 4664.8  | 4650.1  | 4657.5  | 4653.8  | 4640.9  | 4635.4  | 4633.5  | 4644.6  | 4659.3  | 4657.5  | 4653.8  |
| 12.5° | 4791.8  | 4775.3  | 4784.4  | 4773.4  | 4769.7  | 4764.2  | 4764.2  | 4762.4  | 4771.6  | 4764.2  | 4767.9  |
| 15°   | 4933.5  | 4922.5  | 4926.2  | 4918.8  | 4924.3  | 4920.6  | 4905.9  | 4898.5  | 4902.2  | 4891.2  | 4893.0  |
| 17.5° | 5100.9  | 5075.2  | 5088.1  | 5084.4  | 5084.4  | 5091.8  | 5067.8  | 5058.6  | 5066.0  | 5054.9  | 5064.1  |
| 20°   | 5294.1  | 5268.4  | 5273.9  | 5266.6  | 5257.3  | 5264.7  | 5235.3  | 5242.7  | 5248.2  | 5240.8  | 5257.3  |
| 22.5° | 5505.8  | 5472.7  | 5470.8  | 5474.5  | 5454.2  | 5456.1  | 5435.9  | 5454.2  | 5465.3  | 5445.0  | 5465.3  |
| 25°   | 5722.9  | 5687.9  | 5711.9  | 5702.7  | 5677.0  | 5682.4  | 5667.7  | 5686.1  | 5695.3  | 5669.6  | 5699.0  |
| 27.5° | 5952.9  | 5929.0  | 5951.2  | 5956.6  | 5925.3  | 5947.5  | 5925.3  | 5941.9  | 5951.2  | 5912.5  | 5941.9  |
| 30°   | 6221.6  | 6197.7  | 6218.0  | 6232.6  | 6195.8  | 6230.8  | 6212.4  | 6223.5  | 6225.2  | 6179.3  | 6206.9  |
| 32.5° | 6514.2  | 6477.4  | 6528.9  | 6536.3  | 6495.8  | 6538.1  | 6514.2  | 6528.9  | 6538.1  | 6475.5  | 6517.9  |
| 35°   | 6871.2  | 6825.2  | 6884.1  | 6874.9  | 6839.9  | 6874.9  | 6852.7  | 6874.9  | 6896.9  | 6821.5  | 6867.5  |
| 37.5° | 7255.8  | 7207.9  | 7270.5  | 7253.9  | 7220.8  | 7244.7  | 7231.9  | 7246.5  | 7281.5  | 7200.5  | 7250.2  |
| 40°   | 7679.0  | 7620.2  | 7704.8  | 7675.3  | 7644.0  | 7640.4  | 7647.7  | 7657.0  | 7703.0  | 7612.8  | 7642.2  |
| 42.5° | 8131.7  | 8069.1  | 8196.1  | 8150.1  | 8105.9  | 8076.5  | 8100.4  | 8118.8  | 8163.0  | 8061.7  | 8115.1  |
| 45°   | 8648.7  | 8577.0  | 8742.6  | 8687.4  | 8617.5  | 8556.8  | 8595.4  | 8623.0  | 8687.4  | 8566.0  | 8628.6  |
| 47.5° | 9219.3  | 9138.3  | 9314.9  | 9298.4  | 9184.3  | 9051.8  | 9140.1  | 9219.3  | 9267.1  | 9119.8  | 9169.5  |
| 50°   | 9776.8  | 9714.2  | 9946.1  | 9966.4  | 9826.5  | 9640.6  | 9763.9  | 9883.6  | 9896.4  | 9703.2  | 9727.1  |
| 52.5° | 10299.4 | 10236.9 | 10573.6 | 10700.6 | 10575.4 | 10354.7 | 10485.2 | 10606.7 | 10509.2 | 10258.9 | 10266.3 |
| 55°   | 10717.1 | 10665.6 | 11094.4 | 11421.9 | 11464.2 | 11282.1 | 11359.4 | 11355.7 | 11035.5 | 10650.9 | 10663.8 |
| 57.5° | 10818.4 | 10811.0 | 11352.0 | 12045.7 | 12487.4 | 12509.4 | 12356.7 | 11966.6 | 11276.5 | 10759.4 | 10726.3 |
| 60°   | 10358.3 | 10404.3 | 11147.7 | 12371.4 | 13549.2 | 14038.6 | 13378.0 | 12264.7 | 11002.3 | 10284.6 | 10200.1 |
| 62.5° | 8981.9  | 9103.3  | 9999.5  | 11973.9 | 14406.7 | 15797.8 | 14196.9 | 11812.0 | 9876.2  | 8939.5  | 8884.3  |
| 65°   | 6436.9  | 6648.6  | 7638.5  | 10218.4 | 14329.4 | 17343.6 | 14079.1 | 10135.6 | 7712.1  | 6632.0  | 6552.8  |
| 67.5° | 2920.3  | 3135.7  | 3976.6  | 6996.3  | 12456.1 | 16924.0 | 12426.7 | 7069.9  | 4175.3  | 3146.6  | 3100.7  |
| 70°   | 1058.1  | 1094.9  | 1365.4  | 2800.7  | 7960.6  | 13484.7 | 8301.0  | 2821.0  | 1451.9  | 1166.7  | 1151.9  |
| 72.5° | 640.4   | 645.9   | 702.9   | 1002.9  | 2765.8  | 8186.9  | 2883.5  | 1036.0  | 717.7   | 636.7   | 647.7   |
| 75°   | 406.7   | 403.0   | 500.5   | 612.7   | 980.8   | 2762.1  | 1028.7  | 612.7   | 498.7   | 454.5   | 458.2   |
| 77.5° | 292.6   | 301.8   | 358.9   | 458.2   | 618.3   | 936.6   | 607.2   | 438.0   | 358.9   | 294.4   | 299.9   |
| 80°   | 218.9   | 224.5   | 261.3   | 357.0   | 434.3   | 583.3   | 386.4   | 323.9   | 270.5   | 184.0   | 189.5   |
| 82.5° | 158.3   | 158.3   | 171.2   | 259.4   | 265.0   | 314.7   | 209.8   | 228.2   | 178.5   | 130.7   | 130.7   |
| 85°   | 93.9    | 92.0    | 106.7   | 154.6   | 138.0   | 115.9   | 95.7    | 139.8   | 112.2   | 81.0    | 79.1    |
| 87.5° | 33.1    | 35.0    | 33.1    | 44.2    | 36.8    | 31.3    | 29.4    | 38.6    | 31.3    | 27.6    | 25.7    |
| 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)