

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: P969825

Luminaire Tested: **NAV-SB6A-735-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969825  
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: LUMARK  
Catalog Number: NAV-SB6A-735-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28711.3 lumens  
Efficiency: N/A  
Efficacy: 168.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4

Input Watts (W): 170.9  
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

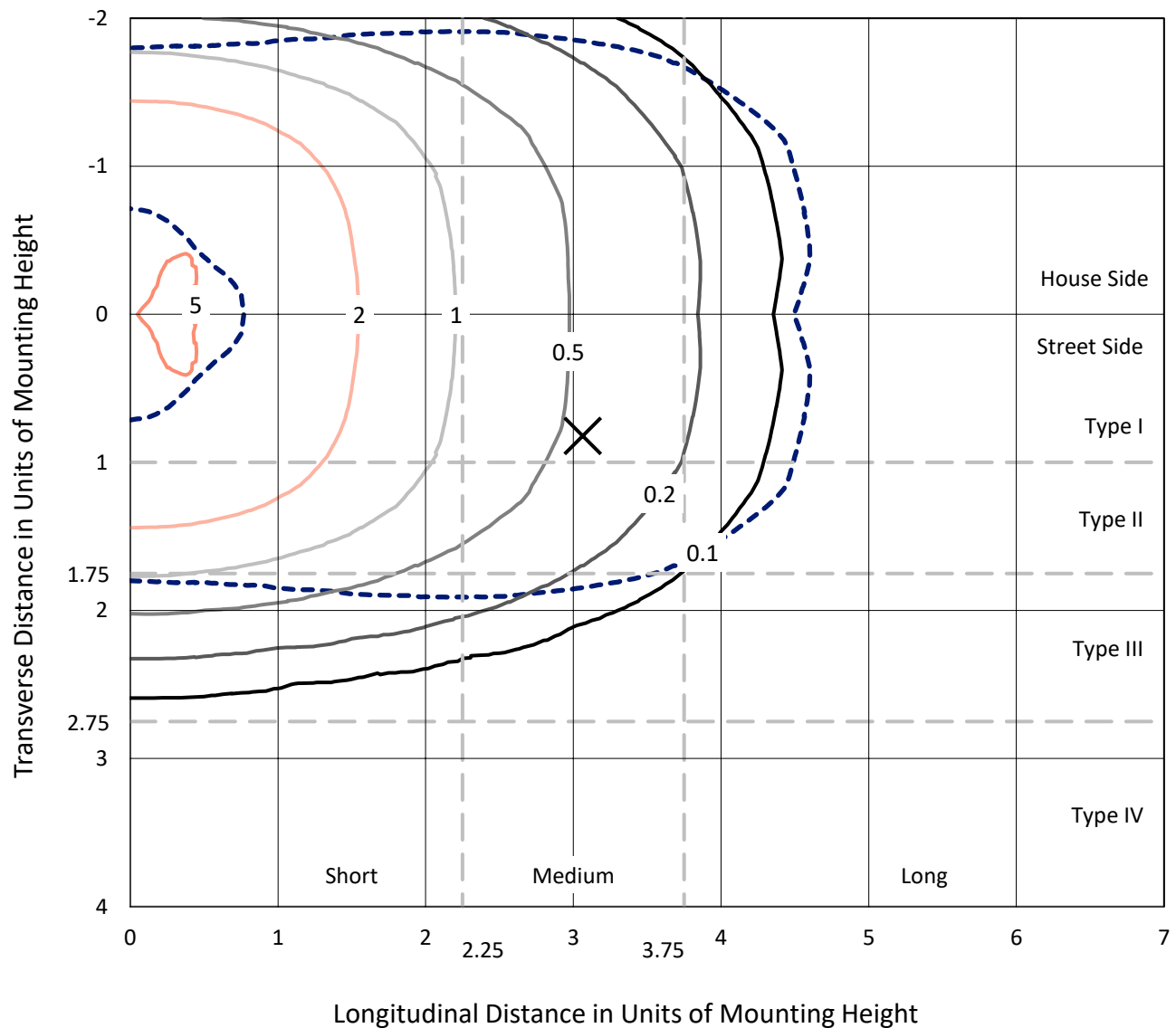


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## Iso-Footcandle Lines of Horizontal Illumination

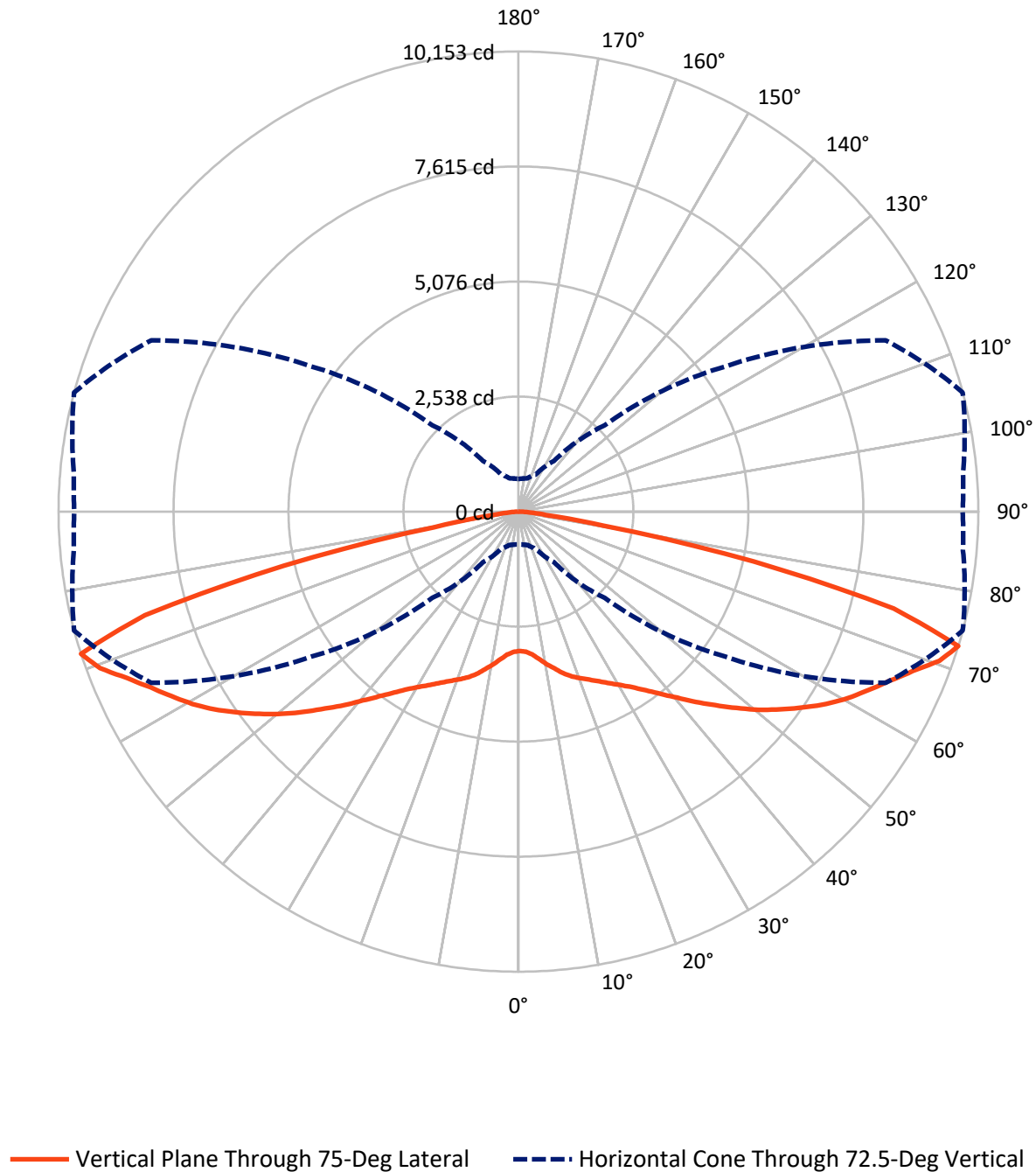
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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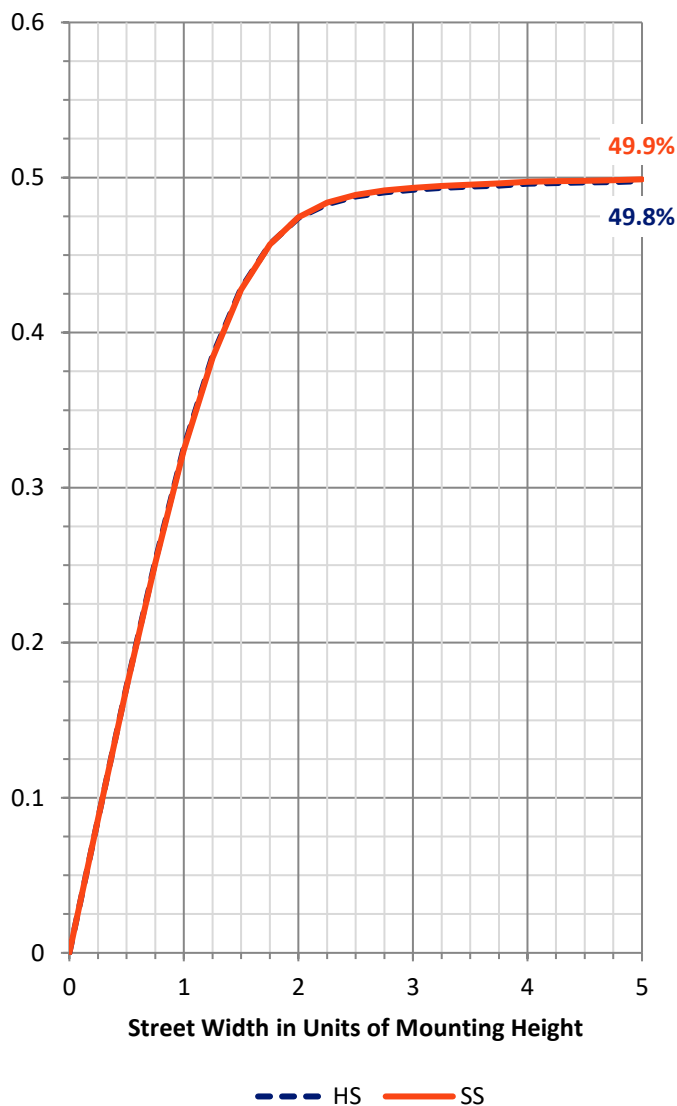
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14355.6  | 0.0    | 14355.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14355.6  | 0.0    | 14355.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28711.3  | 0.0    | 28711.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 301.3   | 1.0       |
| 10°-20°   | 993.7   | 3.5       |
| 20°-30°   | 1920.0  | 6.7       |
| 30°-40°   | 3242.1  | 11.3      |
| 40°-50°   | 5141.6  | 17.9      |
| 50°-60°   | 6884.0  | 24.0      |
| 60°-70°   | 6551.3  | 22.8      |
| 70°-80°   | 3418.6  | 11.9      |
| 80°-90°   | 258.8   | 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°    | 28711.3 | 100.0     |
| 0°-180°   | 28711.3 | 100.0     |

**Coefficient of Utilization**



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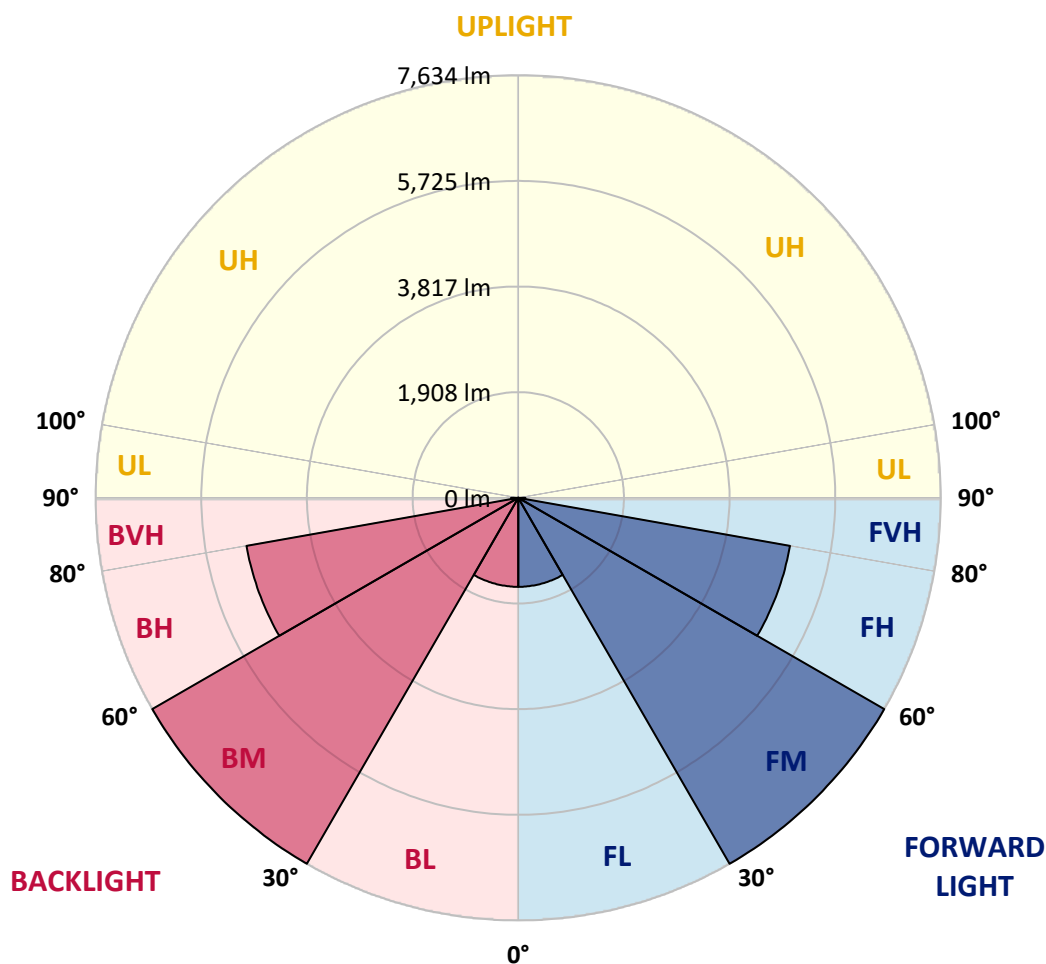
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1607.5 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 7633.8 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 4985.0 | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 129.4  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1607.5 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7633.8 | 26.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4985.0 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 129.4  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 0°    | 3075.5 | 3075.5 | 3075.5 | 3075.5 | 3075.5 | 3075.5 | 3075.5 | 3075.5 | 3075.5  | 3075.5 | 3075.5 |
| 2.5°  | 3075.5 | 3072.5 | 3075.5 | 3078.4 | 3076.9 | 3076.9 | 3084.3 | 3088.7 | 3097.4  | 3096.0 | 3094.6 |
| 5°    | 3055.0 | 3053.5 | 3065.3 | 3078.4 | 3088.7 | 3106.3 | 3128.3 | 3144.4 | 3164.9  | 3169.3 | 3169.3 |
| 7.5°  | 3044.7 | 3040.4 | 3060.9 | 3084.3 | 3116.5 | 3160.5 | 3203.0 | 3247.0 | 3282.2  | 3293.9 | 3296.8 |
| 10°   | 3052.0 | 3053.5 | 3081.4 | 3125.3 | 3176.7 | 3238.2 | 3298.3 | 3373.1 | 3422.9  | 3434.7 | 3446.4 |
| 12.5° | 3085.8 | 3082.8 | 3129.7 | 3200.0 | 3270.5 | 3348.2 | 3418.5 | 3500.6 | 3554.8  | 3582.7 | 3594.5 |
| 15°   | 3147.4 | 3141.4 | 3207.4 | 3311.5 | 3414.1 | 3505.0 | 3562.2 | 3639.9 | 3702.9  | 3738.1 | 3751.3 |
| 17.5° | 3220.7 | 3223.5 | 3310.0 | 3444.9 | 3579.8 | 3682.4 | 3736.6 | 3776.2 | 3824.6  | 3855.3 | 3870.0 |
| 20°   | 3349.6 | 3355.4 | 3452.2 | 3612.0 | 3766.0 | 3883.2 | 3927.2 | 3912.5 | 3925.7  | 3949.2 | 3966.7 |
| 22.5° | 3522.6 | 3525.5 | 3634.0 | 3807.0 | 3968.2 | 4097.2 | 4126.5 | 4066.5 | 4029.8  | 4045.9 | 4057.7 |
| 25°   | 3723.4 | 3742.5 | 3850.9 | 4028.4 | 4194.0 | 4317.1 | 4330.3 | 4239.4 | 4148.6  | 4152.9 | 4160.3 |
| 27.5° | 3968.2 | 3985.8 | 4095.8 | 4271.7 | 4440.3 | 4547.3 | 4545.8 | 4424.1 | 4290.8  | 4257.0 | 4267.3 |
| 30°   | 4233.6 | 4252.6 | 4365.5 | 4547.3 | 4704.1 | 4797.9 | 4777.4 | 4632.3 | 4441.7  | 4378.7 | 4386.0 |
| 32.5° | 4548.7 | 4560.4 | 4674.8 | 4856.6 | 5001.7 | 5076.5 | 5034.0 | 4855.1 | 4617.6  | 4545.8 | 4563.4 |
| 35°   | 4929.8 | 4947.5 | 5032.4 | 5204.0 | 5331.5 | 5393.1 | 5321.3 | 5110.1 | 4843.4  | 4762.8 | 4774.4 |
| 37.5° | 5365.3 | 5353.6 | 5450.2 | 5602.8 | 5708.3 | 5746.4 | 5648.2 | 5397.5 | 5101.4  | 5006.1 | 5023.7 |
| 40°   | 5819.6 | 5813.8 | 5919.4 | 6066.0 | 6123.1 | 6146.6 | 6001.5 | 5727.3 | 5399.0  | 5296.4 | 5330.1 |
| 42.5° | 6231.6 | 6227.2 | 6369.5 | 6532.1 | 6601.0 | 6574.7 | 6391.4 | 6077.7 | 5743.5  | 5626.2 | 5655.5 |
| 45°   | 6561.4 | 6555.6 | 6730.0 | 6958.7 | 7093.6 | 7049.5 | 6803.3 | 6464.7 | 6092.4  | 5970.6 | 5998.5 |
| 47.5° | 6815.0 | 6818.0 | 7005.6 | 7288.6 | 7524.5 | 7540.7 | 7224.0 | 6859.0 | 6476.5  | 6338.6 | 6379.7 |
| 50°   | 6998.3 | 7007.1 | 7207.9 | 7521.7 | 7844.1 | 7986.3 | 7653.6 | 7263.7 | 6873.6  | 6718.3 | 6765.2 |
| 52.5° | 7043.7 | 7059.9 | 7301.7 | 7669.7 | 8049.3 | 8320.5 | 8090.4 | 7652.0 | 7250.4  | 7102.3 | 7140.5 |
| 55°   | 6801.9 | 6834.1 | 7140.5 | 7658.0 | 8175.4 | 8540.4 | 8474.5 | 8046.5 | 7630.1  | 7477.7 | 7520.1 |
| 57.5° | 6246.2 | 6291.8 | 6649.4 | 7325.2 | 8147.5 | 8691.4 | 8772.1 | 8424.6 | 8009.8  | 7863.2 | 7896.9 |
| 60°   | 5467.9 | 5522.1 | 5865.2 | 6602.4 | 7754.7 | 8747.1 | 8981.7 | 8792.6 | 8358.7  | 8216.5 | 8247.3 |
| 62.5° | 4293.6 | 4364.0 | 4774.4 | 5639.3 | 6925.0 | 8487.6 | 9160.5 | 9125.4 | 8672.3  | 8495.0 | 8515.5 |
| 65°   | 2754.5 | 2829.2 | 3261.7 | 4283.4 | 5818.2 | 7693.1 | 9216.2 | 9449.3 | 9003.7  | 8756.0 | 8786.7 |
| 67.5° | 1660.9 | 1694.6 | 1908.7 | 2596.1 | 4252.6 | 6495.4 | 8744.2 | 9808.4 | 9390.6  | 9082.8 | 9106.3 |
| 70°   | 1062.8 | 1081.9 | 1209.4 | 1524.6 | 2404.1 | 4739.3 | 7574.3 | 9875.9 | 9859.8  | 9418.5 | 9415.5 |
| 72.5° | 721.2  | 727.1  | 760.9  | 903.0  | 1360.4 | 2692.9 | 5586.6 | 8940.7 | 10152.9 | 9851.0 | 9804.0 |
| 75°   | 527.8  | 560.0  | 614.2  | 639.2  | 772.5  | 1345.7 | 3201.6 | 6281.4 | 8556.6  | 8688.5 | 8368.9 |
| 77.5° | 392.9  | 394.3  | 469.1  | 498.5  | 551.1  | 716.8  | 1354.5 | 3506.4 | 5312.5  | 5577.8 | 4975.3 |
| 80°   | 332.7  | 315.2  | 313.8  | 401.7  | 414.8  | 447.1  | 605.5  | 1210.8 | 1902.8  | 1153.6 | 872.2  |
| 82.5° | 277.1  | 258.0  | 233.1  | 313.8  | 282.9  | 274.1  | 262.4  | 492.5  | 605.5   | 297.6  | 253.6  |
| 85°   | 193.5  | 184.7  | 175.9  | 205.2  | 161.2  | 137.8  | 126.1  | 230.1  | 255.0   | 126.1  | 111.4  |
| 87.5° | 83.5   | 86.5   | 87.9   | 90.9   | 67.4   | 48.4   | 48.4   | 64.5   | 64.5    | 49.8   | 36.7   |
| 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)