

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: P968782

Luminaire Tested: **NAV-SB5C-735-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P968782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5C-735-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

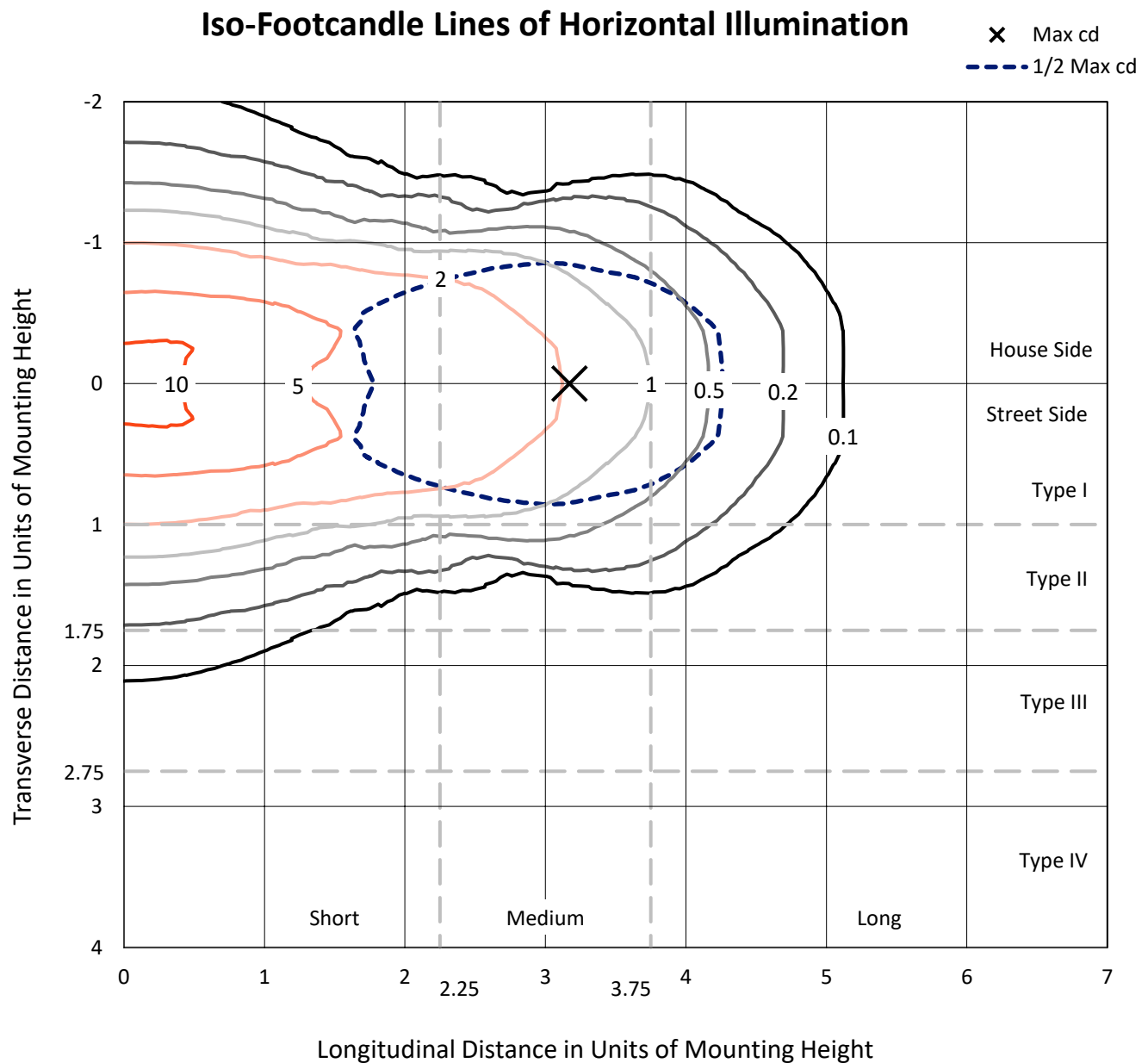
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 38360.6 lumens  
Efficiency: N/A  
Efficacy: 153.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 249.5  
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



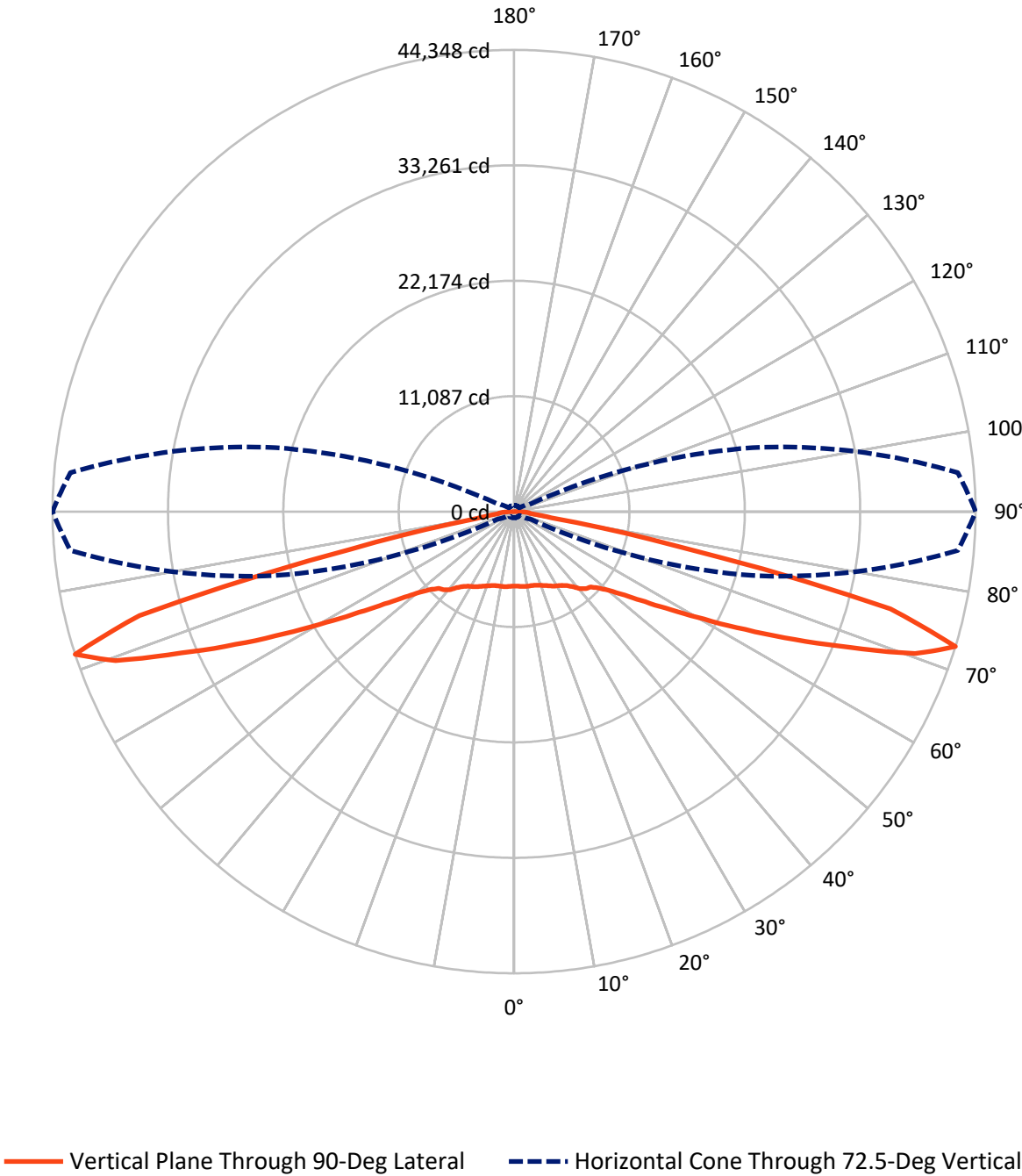
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Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
Type I - Short - N/A

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Luminous Intensity Polar Plot



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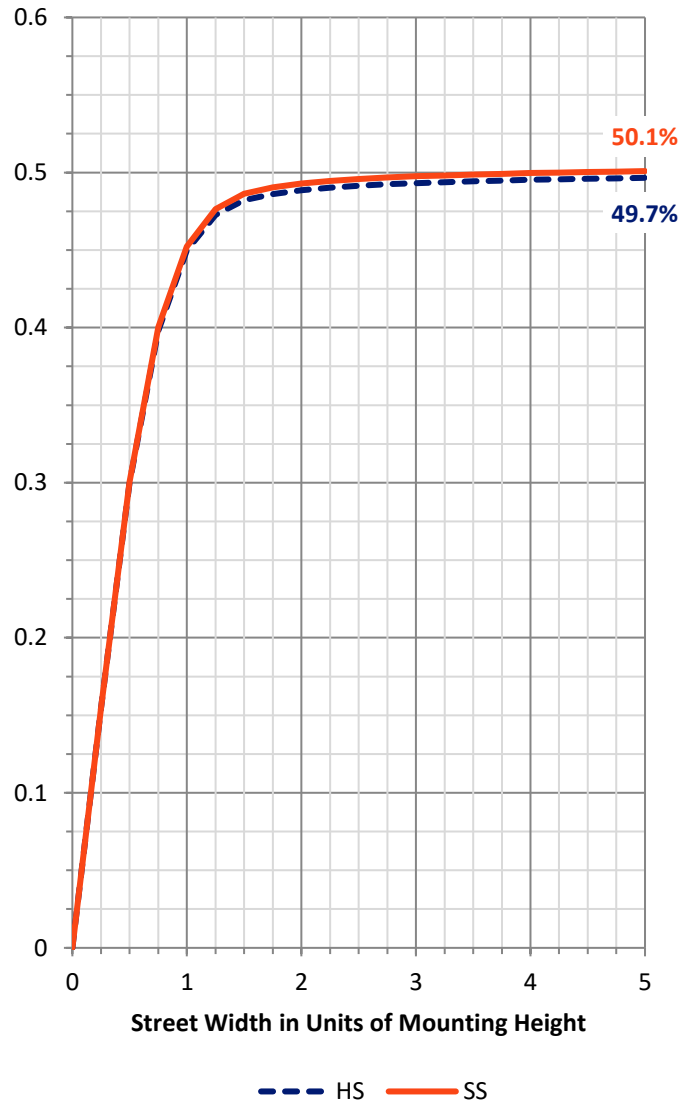
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19180.3  | 0.0    | 19180.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19180.3  | 0.0    | 19180.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 38360.6  | 0.0    | 38360.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 695.0   | 1.8       |
| 10°-20°   | 2125.1  | 5.5       |
| 20°-30°   | 3543.5  | 9.2       |
| 30°-40°   | 4873.4  | 12.7      |
| 40°-50°   | 5951.7  | 15.5      |
| 50°-60°   | 6883.8  | 17.9      |
| 60°-70°   | 8207.8  | 21.4      |
| 70°-80°   | 5728.5  | 14.9      |
| 80°-90°   | 351.9   | 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°    | 38360.6 | 100.0     |
| 0°-180°   | 38360.6 | 100.0     |

**Coefficient of Utilization**



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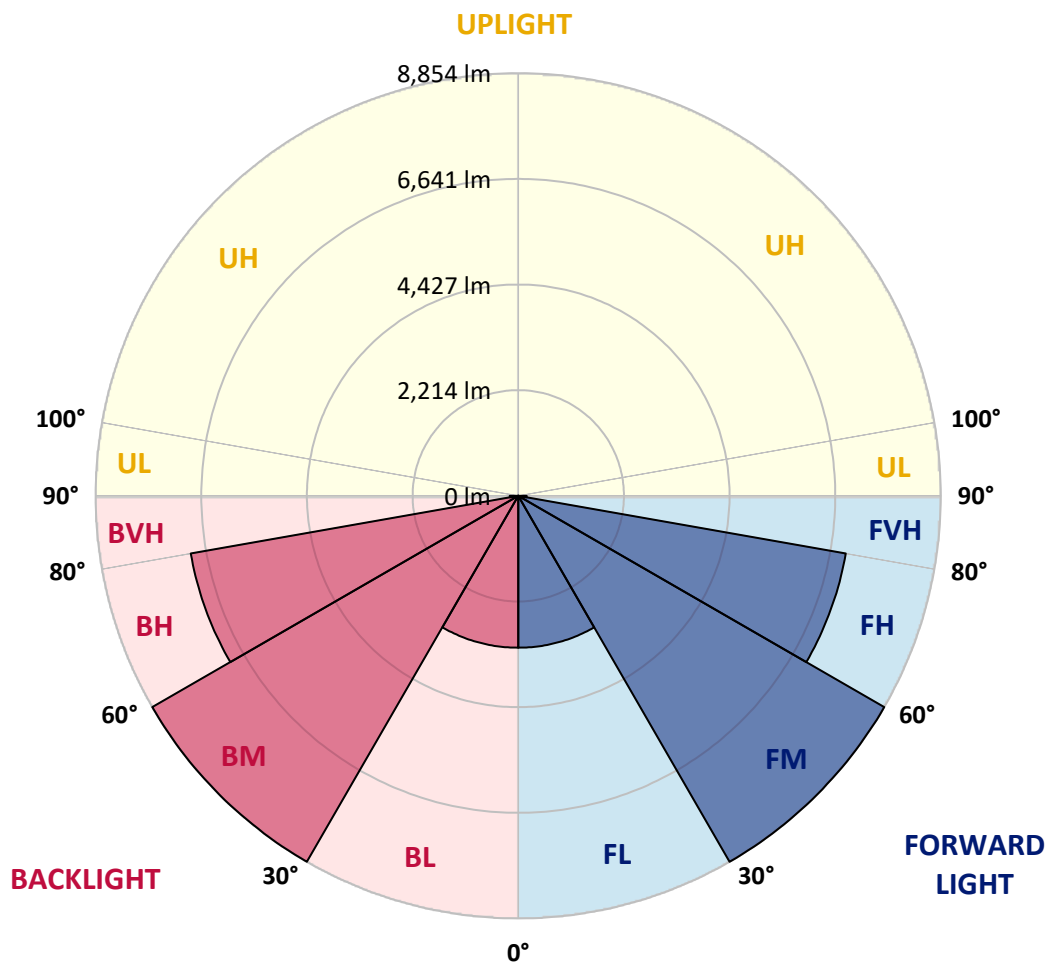
CATALOG NUMBER: NAV-SB5C-735-U-T1

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3181.8 | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 8854.4 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 6968.1 | 18.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 175.9  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 3181.8 | 8.3       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 8854.4 | 23.1      | B5                      |      |         |
| BH   | (60°-80°)   | 6968.1 | 18.2      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 175.9  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 7168.1 | 7168.1 | 7168.1 | 7168.1 | 7168.1 | 7168.1 | 7168.1 | 7168.1  | 7168.1  | 7168.1  | 7168.1  |
| 2.5°  | 7174.2 | 7182.4 | 7182.4 | 7176.2 | 7190.5 | 7178.3 | 7178.3 | 7172.1  | 7178.3  | 7172.1  | 7172.1  |
| 5°    | 7210.9 | 7221.1 | 7225.1 | 7223.2 | 7241.5 | 7231.3 | 7231.3 | 7223.2  | 7225.1  | 7219.1  | 7219.1  |
| 7.5°  | 7280.3 | 7294.5 | 7302.6 | 7312.9 | 7339.3 | 7327.1 | 7318.9 | 7294.5  | 7284.3  | 7268.0  | 7268.0  |
| 10°   | 7302.6 | 7318.9 | 7345.5 | 7398.4 | 7459.6 | 7461.7 | 7437.2 | 7376.0  | 7329.2  | 7292.5  | 7286.3  |
| 12.5° | 7233.3 | 7255.8 | 7310.8 | 7418.8 | 7555.5 | 7610.5 | 7571.8 | 7469.8  | 7378.1  | 7312.9  | 7302.6  |
| 15°   | 7145.7 | 7170.1 | 7253.7 | 7416.8 | 7618.6 | 7747.1 | 7743.0 | 7608.5  | 7461.7  | 7359.7  | 7343.4  |
| 17.5° | 7009.1 | 7033.6 | 7153.8 | 7382.2 | 7667.6 | 7879.6 | 7936.7 | 7798.1  | 7592.2  | 7455.5  | 7433.1  |
| 20°   | 6762.3 | 6784.8 | 6952.0 | 7272.1 | 7683.9 | 8020.3 | 8169.0 | 8046.8  | 7789.9  | 7604.4  | 7569.7  |
| 22.5° | 6442.3 | 6477.0 | 6672.6 | 7082.4 | 7645.2 | 8167.1 | 8434.1 | 8350.6  | 8020.3  | 7763.4  | 7716.5  |
| 25°   | 6099.8 | 6136.5 | 6364.8 | 6850.1 | 7545.2 | 8273.1 | 8748.1 | 8695.1  | 8281.2  | 7961.2  | 7895.9  |
| 27.5° | 5804.2 | 5842.9 | 6091.7 | 6619.7 | 7390.4 | 8313.9 | 9057.9 | 9084.5  | 8597.2  | 8179.3  | 8110.0  |
| 30°   | 5571.8 | 5608.5 | 5873.6 | 6434.1 | 7190.5 | 8273.1 | 9329.1 | 9512.6  | 8919.3  | 8368.9  | 8269.0  |
| 32.5° | 5317.0 | 5363.8 | 5643.1 | 6207.8 | 6954.0 | 8175.2 | 9565.6 | 9975.4  | 9292.4  | 8572.8  | 8446.3  |
| 35°   | 4994.8 | 5037.7 | 5331.2 | 5898.0 | 6644.2 | 8018.3 | 9763.3 | 10489.1 | 9826.6  | 8882.6  | 8741.9  |
| 37.5° | 4603.4 | 4644.2 | 4935.7 | 5510.6 | 6336.3 | 7798.1 | 9914.2 | 11068.2 | 10462.6 | 9329.1  | 9141.6  |
| 40°   | 4209.9 | 4248.6 | 4521.9 | 5078.5 | 5967.2 | 7516.7 | 9967.2 | 11634.9 | 11192.5 | 9942.8  | 9742.9  |
| 42.5° | 3849.1 | 3883.7 | 4134.5 | 4652.4 | 5553.4 | 7157.9 | 9897.9 | 12128.2 | 11846.9 | 10370.8 | 10114.0 |
| 45°   | 3516.8 | 3547.3 | 3769.5 | 4252.7 | 5123.3 | 6721.6 | 9689.9 | 12658.3 | 12625.7 | 10676.7 | 10330.2 |
| 47.5° | 3137.5 | 3168.2 | 3398.5 | 3865.4 | 4693.1 | 6209.9 | 9337.2 | 13180.3 | 13708.2 | 11369.8 | 10970.3 |
| 50°   | 2674.7 | 2701.3 | 2937.8 | 3418.9 | 4246.6 | 5665.6 | 8848.0 | 13590.0 | 15074.2 | 12419.8 | 11918.3 |
| 52.5° | 2126.4 | 2155.0 | 2385.3 | 2866.4 | 3716.5 | 5080.4 | 8203.8 | 13857.1 | 16652.1 | 13952.9 | 13335.1 |
| 55°   | 1582.0 | 1602.4 | 1802.3 | 2234.4 | 3060.1 | 4413.8 | 7396.4 | 13932.5 | 18442.1 | 16048.7 | 15276.0 |
| 57.5° | 1147.8 | 1160.0 | 1288.4 | 1610.6 | 2320.1 | 3580.0 | 6415.8 | 13736.8 | 20572.6 | 18735.7 | 17763.2 |
| 60°   | 929.7  | 933.8  | 972.4  | 1115.2 | 1612.6 | 2638.0 | 5231.3 | 13064.0 | 22884.5 | 22199.4 | 20974.2 |
| 62.5° | 844.0  | 844.0  | 854.2  | 893.0  | 1090.7 | 1741.1 | 3798.1 | 11669.5 | 25363.5 | 26576.6 | 24935.4 |
| 65°   | 784.9  | 784.9  | 788.9  | 807.3  | 860.3  | 1109.0 | 2397.5 | 9398.4  | 27453.2 | 31703.9 | 29628.5 |
| 67.5° | 731.8  | 733.9  | 731.8  | 738.0  | 768.5  | 819.6  | 1390.4 | 6491.2  | 28578.5 | 37016.7 | 34776.2 |
| 70°   | 676.8  | 680.9  | 670.8  | 670.8  | 695.2  | 697.2  | 870.5  | 3559.6  | 27644.9 | 41469.3 | 40880.1 |
| 72.5° | 611.6  | 617.8  | 601.4  | 597.4  | 615.7  | 607.5  | 654.5  | 1708.5  | 23734.6 | 42798.6 | 44348.0 |
| 75°   | 554.5  | 562.7  | 526.0  | 515.8  | 515.8  | 509.6  | 532.1  | 876.7   | 15404.4 | 34912.8 | 37343.0 |
| 77.5° | 503.6  | 519.9  | 460.7  | 428.1  | 419.9  | 401.6  | 434.3  | 536.2   | 6737.9  | 16391.2 | 16050.7 |
| 80°   | 415.9  | 438.3  | 379.2  | 340.5  | 326.2  | 305.8  | 342.5  | 375.2   | 2004.1  | 3806.2  | 3645.2  |
| 82.5° | 309.9  | 320.1  | 269.1  | 242.6  | 230.4  | 216.1  | 256.9  | 261.0   | 652.4   | 1347.6  | 1522.9  |
| 85°   | 197.7  | 201.8  | 165.1  | 142.7  | 136.6  | 130.5  | 163.1  | 142.7   | 248.8   | 990.8   | 1439.3  |
| 87.5° | 69.3   | 79.5   | 63.2   | 57.1   | 61.2   | 50.9   | 75.4   | 42.8    | 69.3    | 699.3   | 866.4   |
| 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)