

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: P968859

Luminaire Tested: **NAV-SB5C-760-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5C-760-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42962.9 lumens  
Efficiency: N/A  
Efficacy: 172.2 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): 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

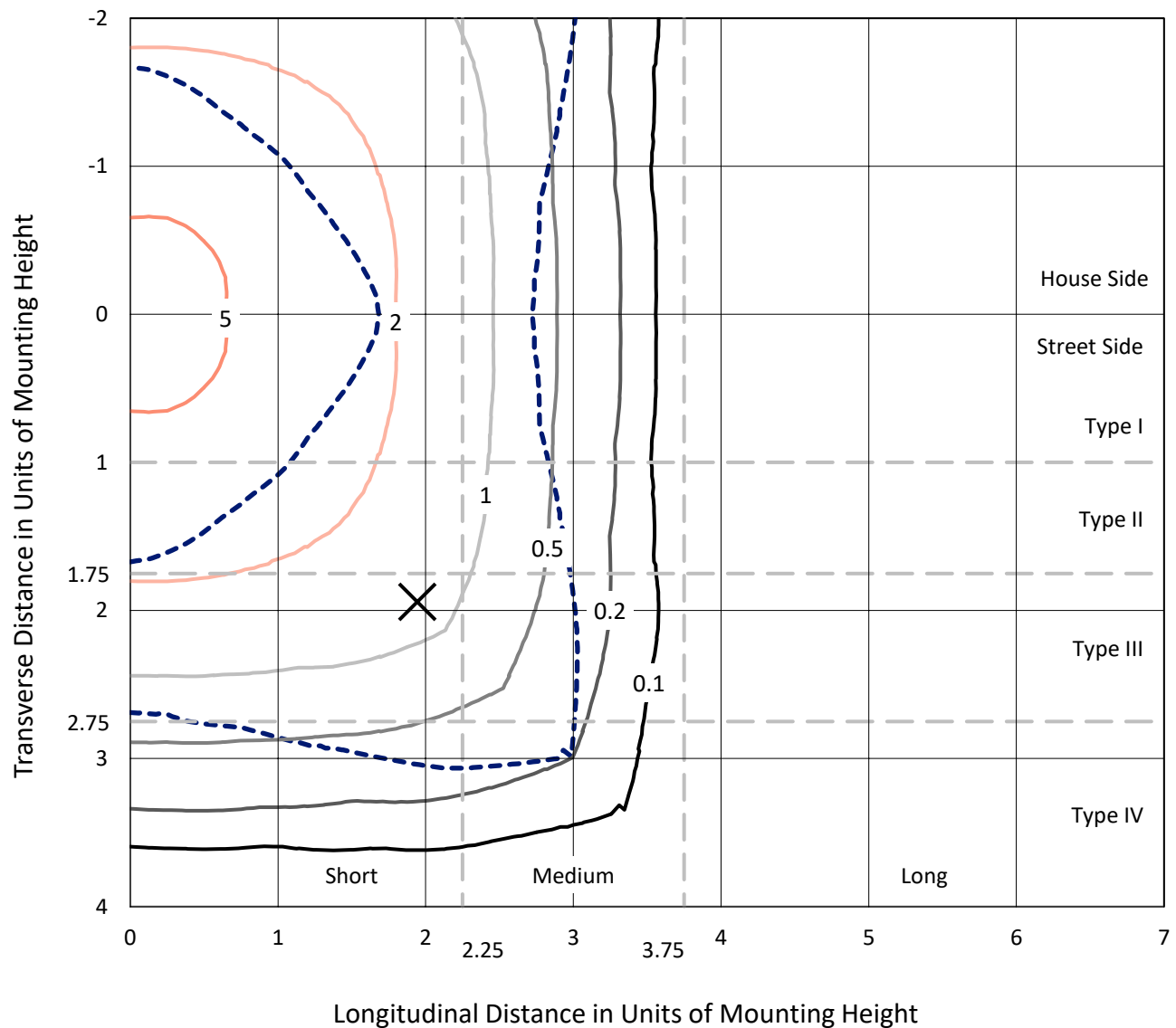


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## Iso-Footcandle Lines of Horizontal Illumination

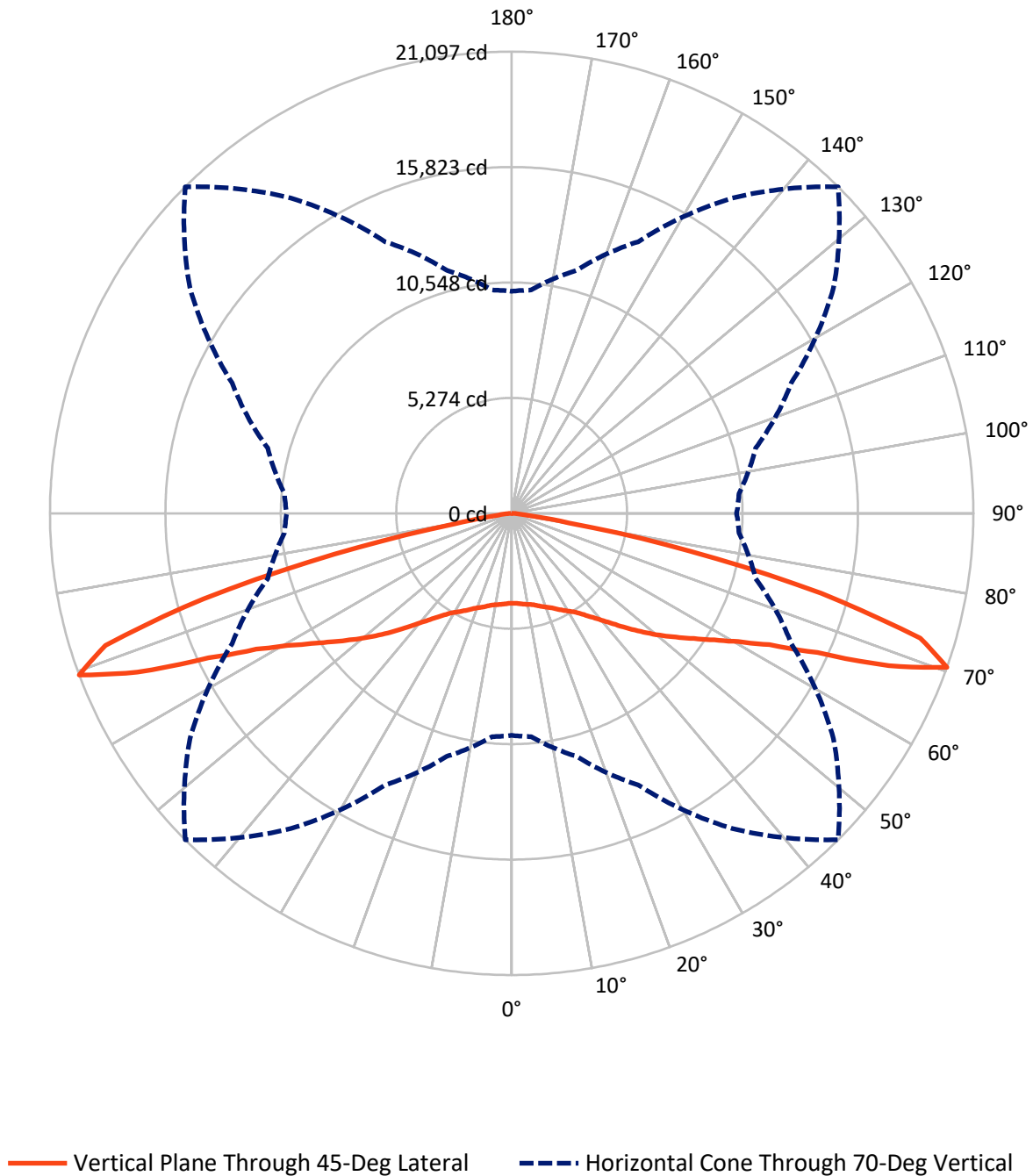
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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    | 21481.4  | 0.0    | 21481.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21481.4  | 0.0    | 21481.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 42962.9  | 0.0    | 42962.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 399.8   | 0.9       |
| 10°-20°   | 1239.8  | 2.9       |
| 20°-30°   | 2215.6  | 5.2       |
| 30°-40°   | 3591.5  | 8.4       |
| 40°-50°   | 5849.9  | 13.6      |
| 50°-60°   | 8919.2  | 20.8      |
| 60°-70°   | 13268.9 | 30.9      |
| 70°-80°   | 7232.0  | 16.8      |
| 80°-90°   | 246.3   | 0.6       |
| 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°    | 42962.9 | 100.0     |
| 0°-180°   | 42962.9 | 100.0     |

**Coefficient of Utilization**



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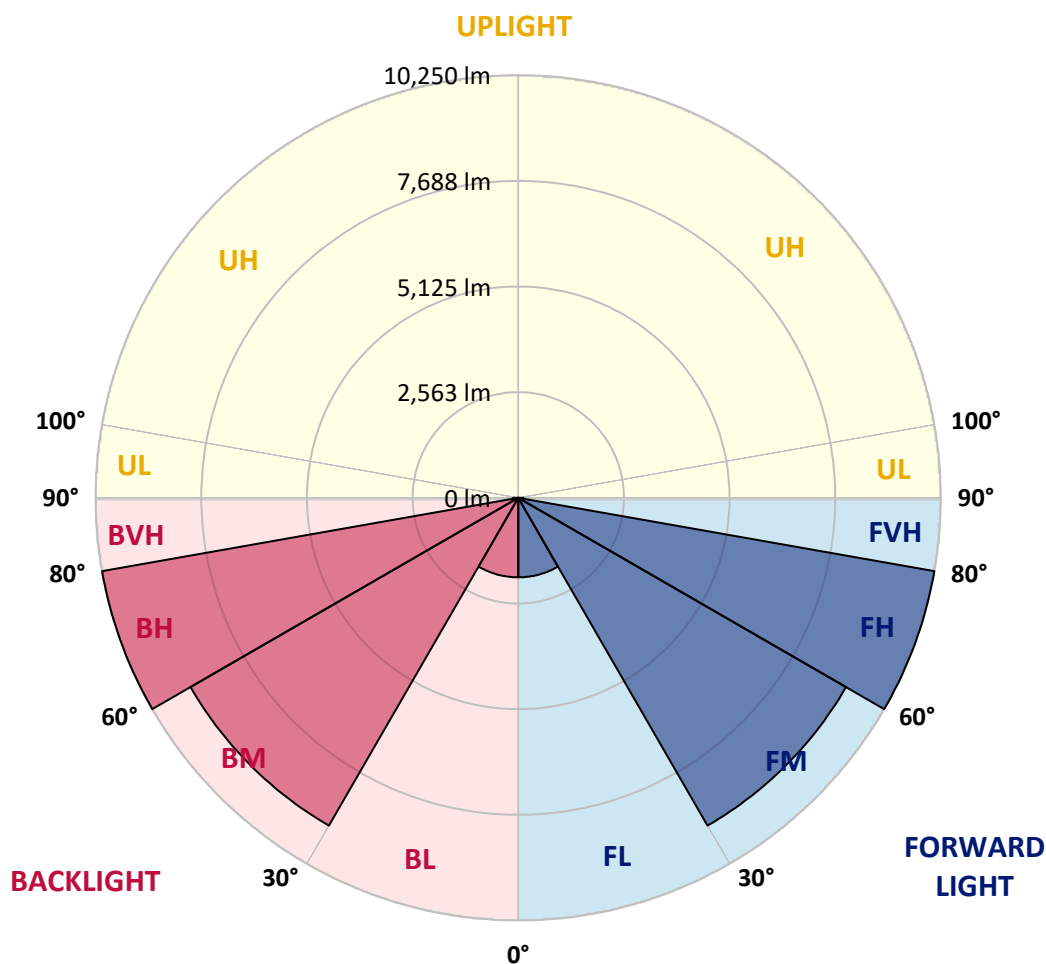
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1927.6  | 4.5       |                         |      |          |
| FM   | (30°-60°)   | 9180.3  | 21.4      |                         |      |          |
| FH   | (60°-80°)   | 10250.4 | 23.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 123.1   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1927.6  | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 9180.3  | 21.4      | B5                      |      |          |
| BH   | (60°-80°)   | 10250.4 | 23.9      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 123.1   | 0.3       |                         |      | 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°    | 4115.4  | 4115.4  | 4115.4  | 4115.4  | 4115.4  | 4115.4  | 4115.4  | 4115.4  | 4115.4  | 4115.4  | 4115.4  |
| 2.5°  | 4134.8  | 4139.2  | 4130.5  | 4126.1  | 4121.8  | 4115.4  | 4117.5  | 4128.3  | 4137.0  | 4134.8  | 4137.0  |
| 5°    | 4169.3  | 4173.6  | 4167.1  | 4165.0  | 4156.4  | 4154.2  | 4154.2  | 4165.0  | 4171.4  | 4167.1  | 4169.3  |
| 7.5°  | 4208.1  | 4214.6  | 4203.8  | 4201.7  | 4197.4  | 4193.1  | 4190.9  | 4201.7  | 4208.1  | 4208.1  | 4208.1  |
| 10°   | 4244.8  | 4251.3  | 4242.7  | 4236.2  | 4231.9  | 4231.9  | 4227.5  | 4236.2  | 4247.0  | 4244.8  | 4244.8  |
| 12.5° | 4283.7  | 4288.0  | 4279.4  | 4275.0  | 4275.0  | 4281.5  | 4275.0  | 4279.4  | 4288.0  | 4283.7  | 4281.5  |
| 15°   | 4331.1  | 4333.3  | 4331.1  | 4337.6  | 4348.4  | 4369.9  | 4350.5  | 4346.2  | 4350.5  | 4339.7  | 4339.7  |
| 17.5° | 4395.8  | 4400.1  | 4408.7  | 4423.8  | 4439.0  | 4477.7  | 4443.3  | 4432.5  | 4432.5  | 4410.9  | 4410.9  |
| 20°   | 4475.6  | 4482.1  | 4495.0  | 4520.9  | 4540.3  | 4576.9  | 4542.5  | 4527.3  | 4520.9  | 4492.9  | 4492.9  |
| 22.5° | 4559.7  | 4570.5  | 4590.0  | 4624.4  | 4658.9  | 4693.5  | 4658.9  | 4633.1  | 4613.6  | 4576.9  | 4574.8  |
| 25°   | 4656.8  | 4669.7  | 4699.9  | 4756.0  | 4803.5  | 4853.1  | 4812.1  | 4760.3  | 4721.5  | 4669.7  | 4667.5  |
| 27.5° | 4794.8  | 4809.9  | 4846.6  | 4915.6  | 4976.0  | 5019.1  | 4980.4  | 4913.4  | 4859.5  | 4797.0  | 4794.8  |
| 30°   | 4989.0  | 5004.0  | 5047.2  | 5120.5  | 5161.5  | 5189.6  | 5163.6  | 5111.9  | 5047.2  | 4976.0  | 4976.0  |
| 32.5° | 5239.2  | 5258.6  | 5306.0  | 5375.0  | 5383.7  | 5388.0  | 5379.3  | 5353.5  | 5306.0  | 5219.7  | 5221.9  |
| 35°   | 5556.2  | 5577.7  | 5631.8  | 5687.8  | 5679.1  | 5687.8  | 5674.8  | 5666.2  | 5631.8  | 5532.5  | 5532.5  |
| 37.5° | 5944.5  | 5970.3  | 6026.4  | 6069.5  | 6048.0  | 6037.2  | 6039.4  | 6041.6  | 6022.1  | 5912.1  | 5912.1  |
| 40°   | 6395.3  | 6429.7  | 6470.7  | 6516.0  | 6479.3  | 6447.0  | 6468.6  | 6485.9  | 6468.6  | 6356.4  | 6356.4  |
| 42.5° | 6859.0  | 6908.6  | 6951.8  | 7016.4  | 6986.3  | 6945.3  | 6975.4  | 6994.9  | 6958.2  | 6837.5  | 6846.1  |
| 45°   | 7374.5  | 7421.9  | 7478.0  | 7575.1  | 7553.5  | 7510.4  | 7553.5  | 7557.8  | 7495.3  | 7352.9  | 7368.0  |
| 47.5° | 7907.3  | 7956.9  | 8041.0  | 8170.4  | 8161.8  | 8114.3  | 8170.4  | 8140.2  | 8060.4  | 7890.0  | 7879.2  |
| 50°   | 8412.0  | 8481.0  | 8610.4  | 8791.6  | 8808.8  | 8750.6  | 8826.1  | 8767.8  | 8634.2  | 8420.6  | 8416.3  |
| 52.5° | 8886.5  | 8959.8  | 9164.7  | 9410.6  | 9473.2  | 9397.7  | 9499.1  | 9397.7  | 9197.1  | 8923.1  | 8897.3  |
| 55°   | 9384.8  | 9466.7  | 9710.4  | 10031.8 | 10156.9 | 10100.9 | 10195.8 | 10042.6 | 9757.9  | 9425.7  | 9380.4  |
| 57.5° | 9971.4  | 10021.0 | 10312.2 | 10694.0 | 10905.4 | 10918.3 | 10961.5 | 10702.6 | 10357.5 | 9980.0  | 9928.3  |
| 60°   | 10607.7 | 10676.7 | 10993.8 | 11451.1 | 11785.3 | 11893.3 | 11848.0 | 11464.0 | 11062.8 | 10629.2 | 10560.3 |
| 62.5° | 11423.0 | 11498.6 | 11878.1 | 12426.0 | 12954.5 | 13221.9 | 13045.1 | 12488.6 | 11992.5 | 11472.6 | 11382.0 |
| 65°   | 12098.2 | 12182.2 | 12868.2 | 13845.3 | 14807.3 | 15344.4 | 14900.0 | 13875.4 | 12982.4 | 12249.2 | 12128.3 |
| 67.5° | 11608.5 | 11712.1 | 12788.4 | 14582.9 | 16974.9 | 18577.5 | 17056.9 | 14802.9 | 13053.7 | 12059.3 | 11910.5 |
| 70°   | 10146.2 | 10243.2 | 11498.6 | 13692.2 | 17585.3 | 21096.9 | 17952.1 | 14095.5 | 11539.6 | 10426.5 | 10277.7 |
| 72.5° | 6736.1  | 7048.8  | 8319.2  | 10950.7 | 15702.4 | 19522.3 | 15857.7 | 10728.5 | 7717.4  | 6720.9  | 6503.1  |
| 75°   | 2234.6  | 2484.8  | 3351.9  | 5677.0  | 10517.1 | 14600.2 | 10012.4 | 5023.4  | 2655.2  | 1911.0  | 1807.5  |
| 77.5° | 562.9   | 649.2   | 895.1   | 1624.1  | 4195.2  | 8312.8  | 3776.7  | 1326.6  | 722.5   | 504.7   | 450.8   |
| 80°   | 273.9   | 302.0   | 431.4   | 541.4   | 1050.4  | 2642.2  | 985.7   | 509.0   | 340.8   | 263.1   | 241.6   |
| 82.5° | 151.0   | 153.1   | 243.7   | 306.3   | 390.4   | 683.8   | 405.5   | 297.7   | 196.3   | 159.6   | 159.6   |
| 85°   | 92.8    | 90.6    | 129.5   | 163.9   | 163.9   | 243.7   | 194.1   | 163.9   | 112.1   | 99.2    | 103.5   |
| 87.5° | 36.7    | 36.7    | 47.5    | 51.8    | 45.3    | 62.5    | 49.6    | 53.9    | 43.2    | 41.0    | 43.2    |
| 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)