

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: STREETWORKS

Report Number: P968844

Luminaire Tested: **NVN-SB5C-750-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968844  
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: STREETWORKS  
Catalog Number: NVN-SB5C-750-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

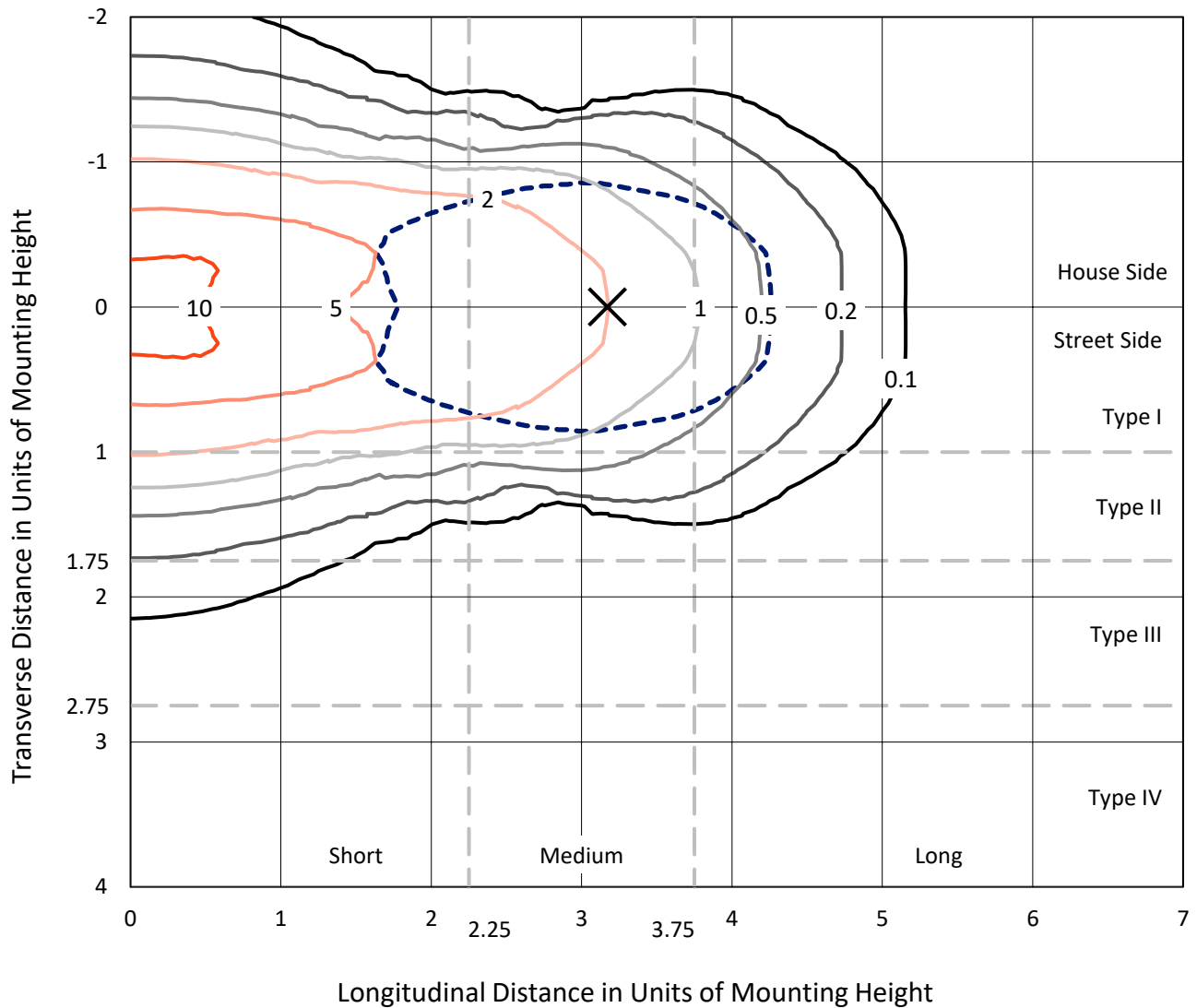
Lumens per Lamp: N/A  
Luminaire Lumens: 40583.9 lumens  
Efficiency: N/A  
Efficacy: 162.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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### Iso-Footcandle Lines of Horizontal Illumination

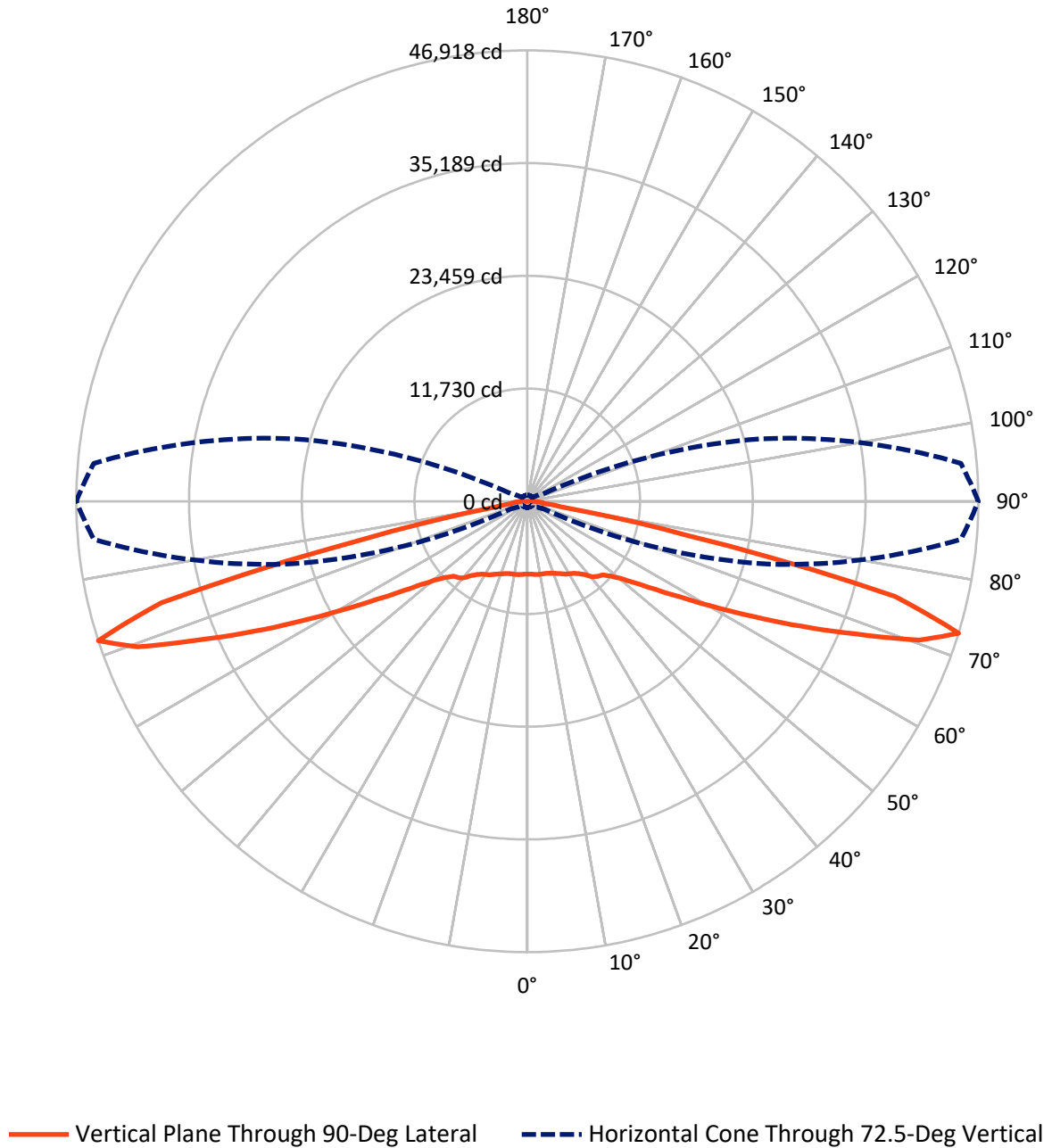
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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    | 20291.9  | 0.0    | 20291.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20291.9  | 0.0    | 20291.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 40583.9  | 0.0    | 40583.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 735.3   | 1.8       |
| 10°-20°   | 2248.3  | 5.5       |
| 20°-30°   | 3748.8  | 9.2       |
| 30°-40°   | 5155.8  | 12.7      |
| 40°-50°   | 6296.6  | 15.5      |
| 50°-60°   | 7282.8  | 17.9      |
| 60°-70°   | 8683.5  | 21.4      |
| 70°-80°   | 6060.5  | 14.9      |
| 80°-90°   | 372.2   | 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°    | 40583.9 | 100.0     |
| 0°-180°   | 40583.9 | 100.0     |

**Coefficient of Utilization**



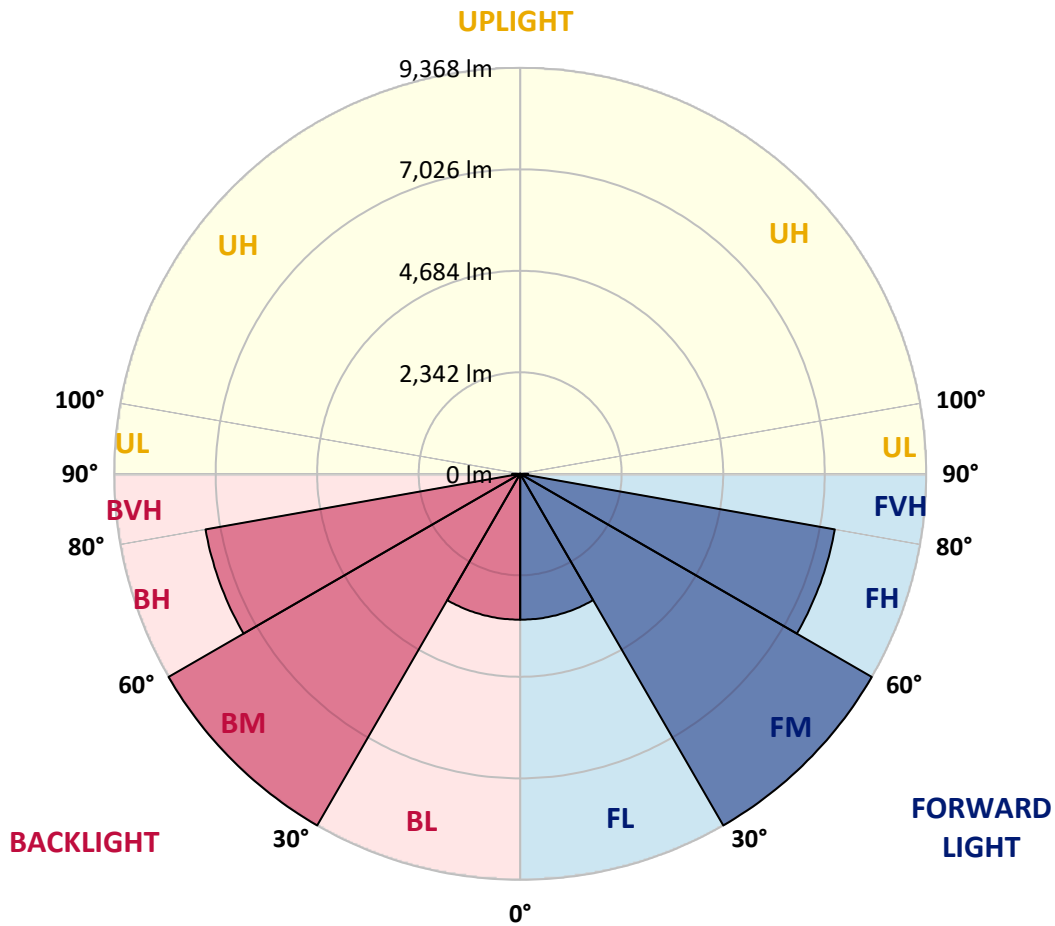
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 3366.2 | 8.3       |                         |      |         |
| FM (30°-60°)   | 9367.6 | 23.1      |                         |      |         |
| FH (60°-80°)   | 7372.0 | 18.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 186.1  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 3366.2 | 8.3       | B4/5000                 |      |         |
| BM (30°-60°)   | 9367.6 | 23.1      | B5                      |      |         |
| BH (60°-80°)   | 7372.0 | 18.2      | B5                      |      | G5      |
| BVH (80°-90°)  | 186.1  | 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°    | 7583.6 | 7583.6 | 7583.6 | 7583.6 | 7583.6 | 7583.6 | 7583.6  | 7583.6  | 7583.6  | 7583.6  | 7583.6  |
| 2.5°  | 7590.0 | 7598.6 | 7598.6 | 7592.2 | 7607.2 | 7594.3 | 7594.3  | 7587.9  | 7594.3  | 7587.9  | 7587.9  |
| 5°    | 7628.8 | 7639.6 | 7643.9 | 7641.8 | 7661.2 | 7650.4 | 7650.4  | 7641.8  | 7643.9  | 7637.5  | 7637.5  |
| 7.5°  | 7702.2 | 7717.2 | 7725.8 | 7736.7 | 7764.7 | 7751.8 | 7743.2  | 7717.2  | 7706.5  | 7689.2  | 7689.2  |
| 10°   | 7725.8 | 7743.2 | 7771.1 | 7827.2 | 7892.0 | 7894.1 | 7868.2  | 7803.5  | 7753.9  | 7715.1  | 7708.6  |
| 12.5° | 7652.5 | 7676.2 | 7734.5 | 7848.8 | 7993.4 | 8051.6 | 8010.6  | 7902.7  | 7805.7  | 7736.7  | 7725.8  |
| 15°   | 7559.8 | 7585.7 | 7674.1 | 7846.7 | 8060.2 | 8196.1 | 8191.8  | 8049.4  | 7894.1  | 7786.3  | 7769.0  |
| 17.5° | 7415.3 | 7441.2 | 7568.4 | 7810.0 | 8112.0 | 8336.2 | 8396.7  | 8250.0  | 8032.1  | 7887.7  | 7863.9  |
| 20°   | 7154.3 | 7178.1 | 7354.9 | 7693.5 | 8129.2 | 8485.1 | 8642.5  | 8513.1  | 8241.4  | 8045.1  | 8008.4  |
| 22.5° | 6815.6 | 6852.3 | 7059.4 | 7493.0 | 8088.3 | 8640.3 | 8922.9  | 8834.5  | 8485.1  | 8213.3  | 8163.7  |
| 25°   | 6453.3 | 6492.1 | 6733.7 | 7247.1 | 7982.5 | 8752.6 | 9255.1  | 9199.0  | 8761.2  | 8422.5  | 8353.5  |
| 27.5° | 6140.6 | 6181.6 | 6444.7 | 7003.3 | 7818.6 | 8795.6 | 9582.9  | 9611.0  | 9095.4  | 8653.4  | 8580.0  |
| 30°   | 5894.7 | 5933.5 | 6214.0 | 6807.0 | 7607.2 | 8752.6 | 9869.8  | 10063.9 | 9436.3  | 8853.9  | 8748.3  |
| 32.5° | 5625.1 | 5674.7 | 5970.2 | 6567.7 | 7357.0 | 8649.1 | 10120.0 | 10553.5 | 9831.0  | 9069.6  | 8935.8  |
| 35°   | 5284.3 | 5329.6 | 5640.2 | 6239.8 | 7029.2 | 8482.9 | 10329.2 | 11097.1 | 10396.1 | 9397.4  | 9248.6  |
| 37.5° | 4870.2 | 4913.3 | 5221.8 | 5830.0 | 6703.5 | 8250.0 | 10488.8 | 11709.6 | 11069.0 | 9869.8  | 9671.4  |
| 40°   | 4453.9 | 4494.9 | 4783.9 | 5372.7 | 6313.2 | 7952.4 | 10544.9 | 12309.2 | 11841.2 | 10519.0 | 10307.6 |
| 42.5° | 4072.1 | 4108.8 | 4374.1 | 4921.9 | 5875.3 | 7572.7 | 10471.6 | 12831.2 | 12533.5 | 10971.9 | 10700.2 |
| 45°   | 3720.5 | 3752.9 | 3988.1 | 4499.2 | 5420.2 | 7111.1 | 10251.5 | 13391.9 | 13357.4 | 11295.5 | 10928.9 |
| 47.5° | 3319.4 | 3351.7 | 3595.5 | 4089.4 | 4965.1 | 6569.8 | 9878.4  | 13944.1 | 14502.7 | 12028.8 | 11606.1 |
| 50°   | 2829.8 | 2857.8 | 3108.0 | 3617.0 | 4492.8 | 5993.9 | 9360.8  | 14377.7 | 15947.9 | 13139.6 | 12609.0 |
| 52.5° | 2249.6 | 2279.8 | 2523.5 | 3032.6 | 3932.0 | 5374.9 | 8679.2  | 14660.2 | 17617.2 | 14761.5 | 14108.0 |
| 55°   | 1673.7 | 1695.2 | 1906.7 | 2364.0 | 3237.5 | 4669.6 | 7825.1  | 14740.0 | 19511.0 | 16978.8 | 16161.4 |
| 57.5° | 1214.3 | 1227.2 | 1363.1 | 1704.0 | 2454.5 | 3787.5 | 6787.7  | 14533.0 | 21764.8 | 19821.6 | 18792.8 |
| 60°   | 983.5  | 987.8  | 1028.8 | 1179.8 | 1706.1 | 2791.0 | 5534.5  | 13821.2 | 24210.8 | 23486.0 | 22189.8 |
| 62.5° | 893.0  | 893.0  | 903.7  | 944.7  | 1153.9 | 1841.9 | 4018.2  | 12345.8 | 26833.5 | 28116.9 | 26380.5 |
| 65°   | 830.4  | 830.4  | 834.7  | 854.1  | 910.2  | 1173.3 | 2536.5  | 9943.1  | 29044.3 | 33541.4 | 31345.6 |
| 67.5° | 774.3  | 776.4  | 774.3  | 780.7  | 813.1  | 867.0  | 1471.0  | 6867.4  | 30234.8 | 39162.1 | 36791.8 |
| 70°   | 716.1  | 720.4  | 709.6  | 709.6  | 735.5  | 737.7  | 921.0   | 3765.8  | 29247.0 | 43872.7 | 43249.4 |
| 72.5° | 647.1  | 653.5  | 636.3  | 631.9  | 651.4  | 642.8  | 692.4   | 1807.5  | 25110.1 | 45279.0 | 46918.1 |
| 75°   | 586.7  | 595.3  | 556.5  | 545.7  | 545.7  | 539.3  | 562.9   | 927.4   | 16297.2 | 36936.2 | 39507.2 |
| 77.5° | 532.8  | 550.0  | 487.5  | 452.9  | 444.3  | 424.9  | 459.4   | 567.2   | 7128.5  | 17341.2 | 16981.0 |
| 80°   | 440.0  | 463.7  | 401.2  | 360.2  | 345.1  | 323.5  | 362.3   | 396.9   | 2120.2  | 4026.8  | 3856.5  |
| 82.5° | 327.8  | 338.7  | 284.7  | 256.7  | 243.7  | 228.7  | 271.7   | 276.0   | 690.2   | 1425.7  | 1611.2  |
| 85°   | 209.2  | 213.5  | 174.7  | 151.0  | 144.5  | 138.1  | 172.5   | 151.0   | 263.1   | 1048.3  | 1522.7  |
| 87.5° | 73.3   | 84.2   | 66.8   | 60.4   | 64.7   | 53.9   | 79.8    | 45.3    | 73.3    | 739.8   | 916.7   |
| 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)