

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: P969898

Luminaire Tested: **NVN-SB6A-750-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969898  
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-SB6A-750-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29181.8 lumens  
Efficiency: N/A  
Efficacy: 170.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

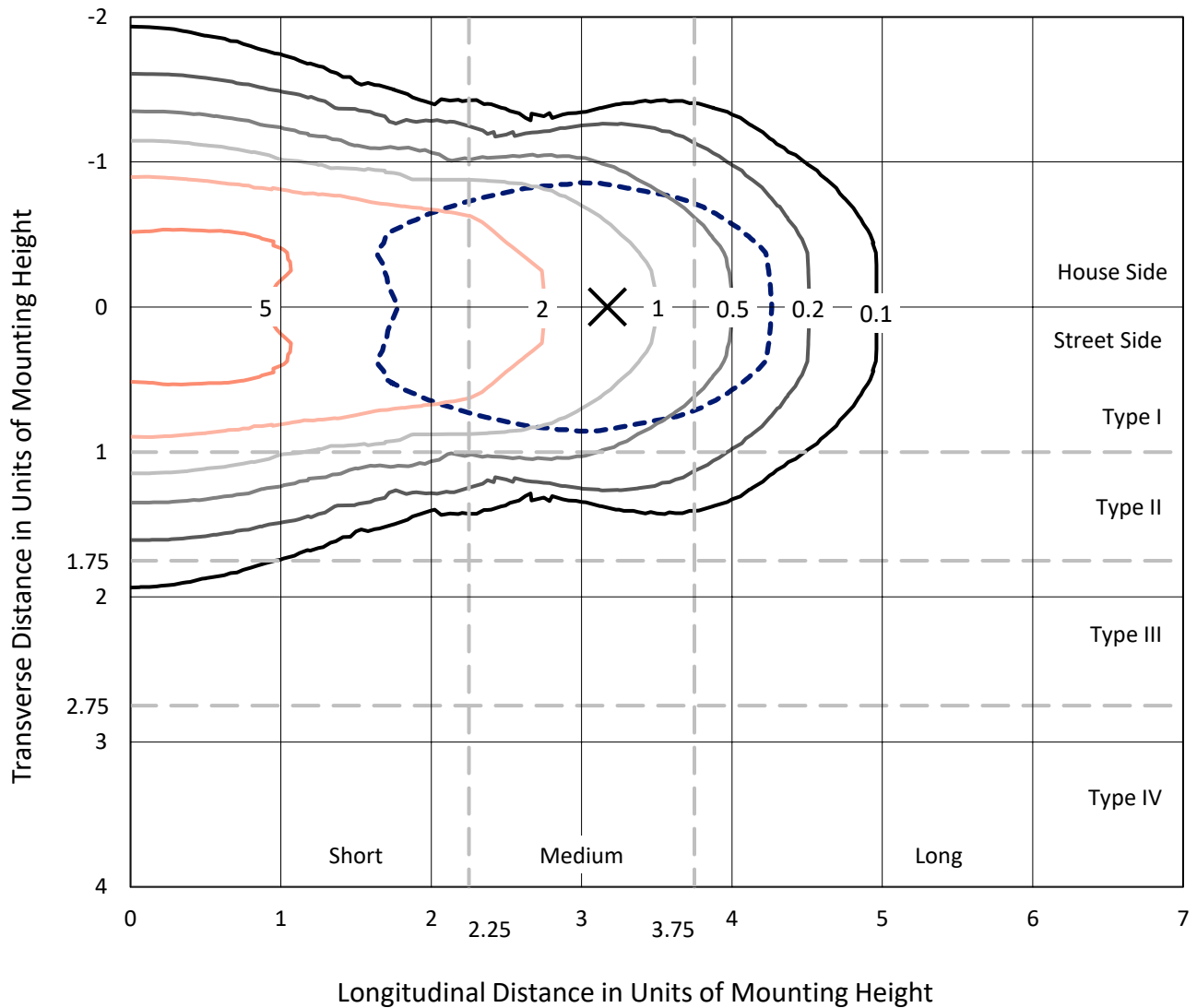
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

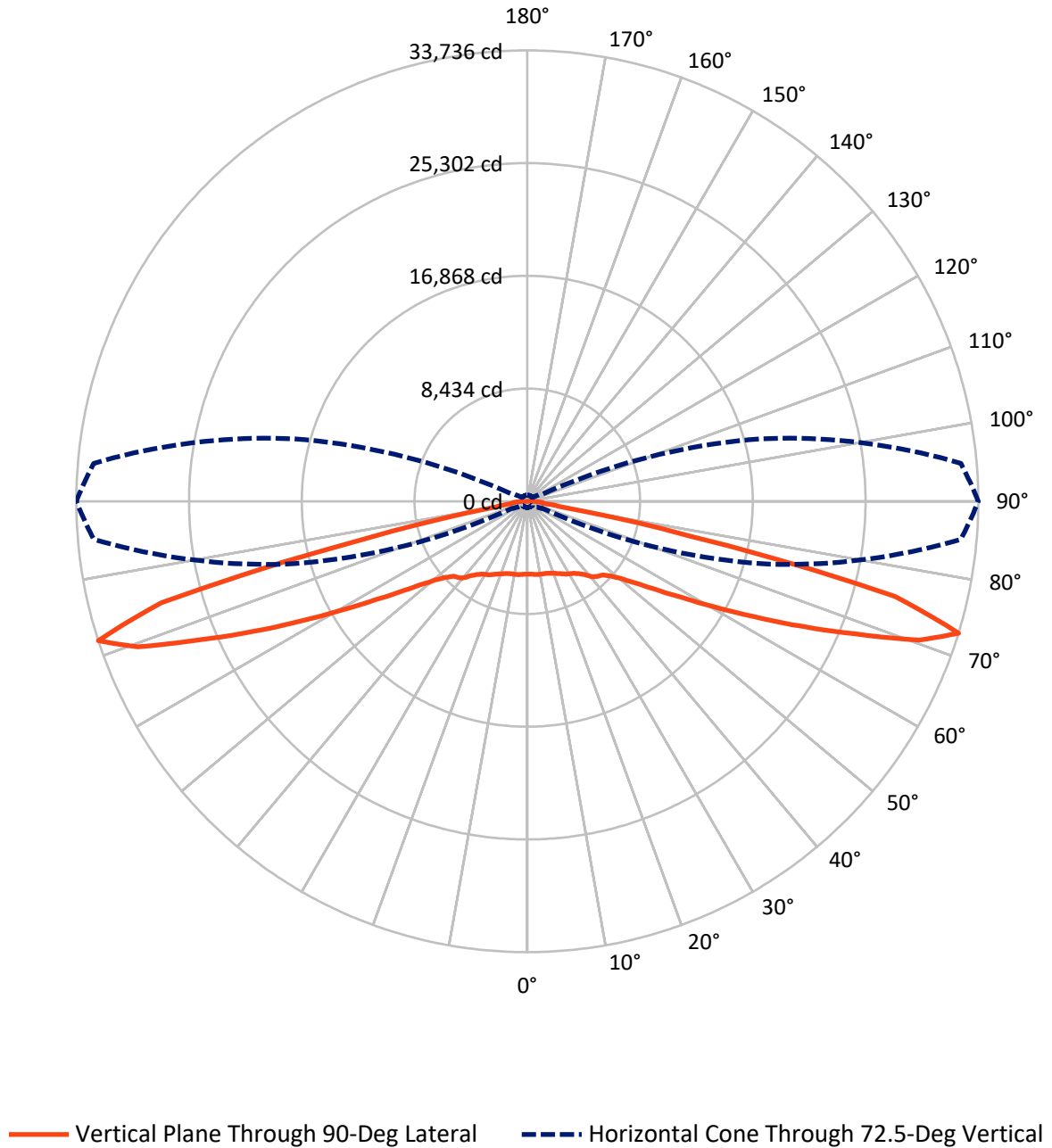
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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    | 14590.9  | 0.0    | 14590.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14590.9  | 0.0    | 14590.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29181.8  | 0.0    | 29181.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 528.7   | 1.8       |
| 10°-20°   | 1616.6  | 5.5       |
| 20°-30°   | 2695.6  | 9.2       |
| 30°-40°   | 3707.3  | 12.7      |
| 40°-50°   | 4527.6  | 15.5      |
| 50°-60°   | 5236.6  | 17.9      |
| 60°-70°   | 6243.8  | 21.4      |
| 70°-80°   | 4357.8  | 14.9      |
| 80°-90°   | 267.7   | 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°    | 29181.8 | 100.0     |
| 0°-180°   | 29181.8 | 100.0     |



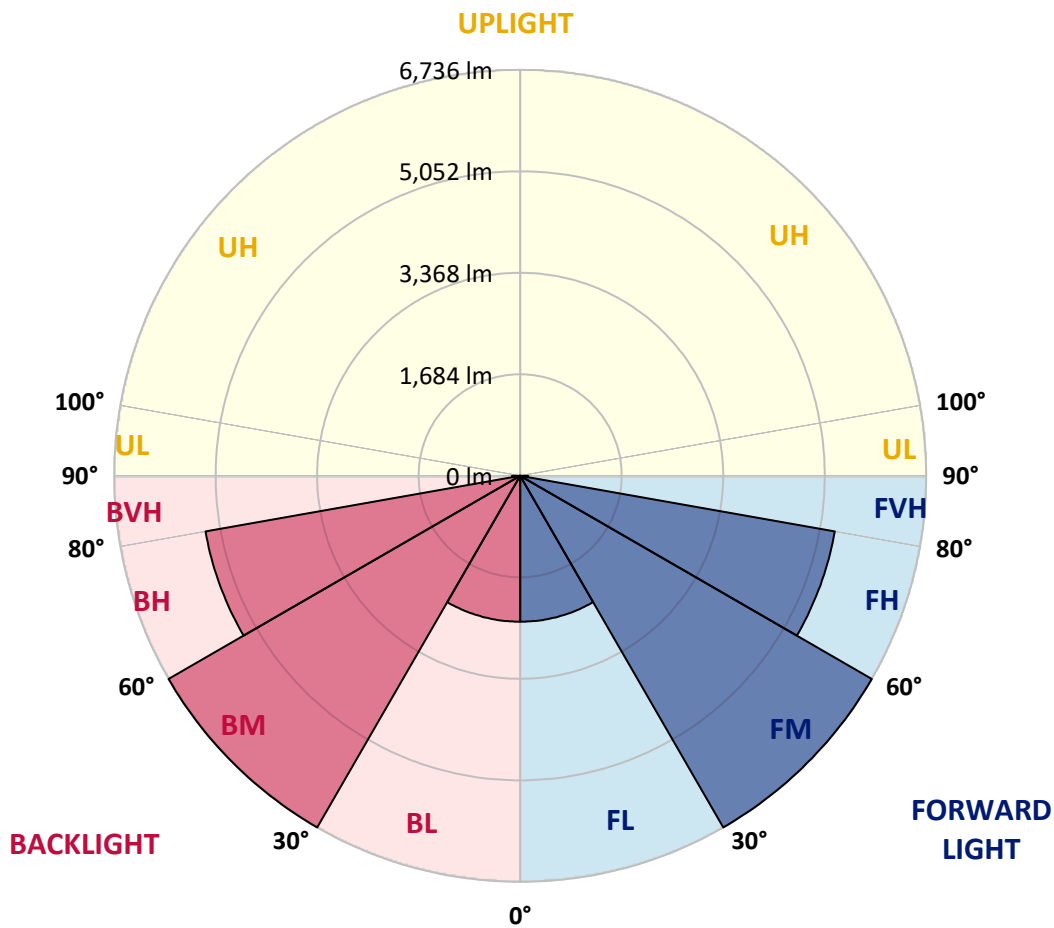
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2420.5 | 8.3       |                         |      |         |
| FM (30°-60°)   | 6735.8 | 23.1      |                         |      |         |
| FH (60°-80°)   | 5300.8 | 18.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 133.8  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 2420.5 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 6735.8 | 23.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 5300.8 | 18.2      | B5                      |      | G5      |
| BVH (80°-90°)  | 133.8  | 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°    | 5452.9 | 5452.9 | 5452.9 | 5452.9 | 5452.9 | 5452.9 | 5452.9 | 5452.9  | 5452.9  | 5452.9  | 5452.9  |
| 2.5°  | 5457.6 | 5463.8 | 5463.8 | 5459.2 | 5470.0 | 5460.7 | 5460.7 | 5456.0  | 5460.7  | 5456.0  | 5456.0  |
| 5°    | 5485.5 | 5493.3 | 5496.4 | 5494.8 | 5508.8 | 5501.0 | 5501.0 | 5494.8  | 5496.4  | 5491.6  | 5491.6  |
| 7.5°  | 5538.2 | 5549.0 | 5555.3 | 5563.0 | 5583.2 | 5573.8 | 5567.7 | 5549.0  | 5541.4  | 5529.0  | 5529.0  |
| 10°   | 5555.3 | 5567.7 | 5587.9 | 5628.2 | 5674.7 | 5676.2 | 5657.6 | 5611.2  | 5575.5  | 5547.5  | 5542.9  |
| 12.5° | 5502.5 | 5519.6 | 5561.4 | 5643.6 | 5747.6 | 5789.5 | 5760.0 | 5682.5  | 5612.7  | 5563.0  | 5555.3  |
| 15°   | 5435.9 | 5454.4 | 5518.1 | 5642.1 | 5795.7 | 5893.3 | 5890.3 | 5787.9  | 5676.2  | 5598.7  | 5586.2  |
| 17.5° | 5331.9 | 5350.6 | 5442.0 | 5615.8 | 5832.9 | 5994.2 | 6037.6 | 5932.2  | 5775.5  | 5671.6  | 5654.5  |
| 20°   | 5144.3 | 5161.4 | 5288.5 | 5532.0 | 5845.3 | 6101.2 | 6214.4 | 6121.3  | 5925.9  | 5784.8  | 5758.4  |
| 22.5° | 4900.8 | 4927.2 | 5076.0 | 5387.8 | 5815.8 | 6212.8 | 6416.0 | 6352.4  | 6101.2  | 5905.7  | 5870.1  |
| 25°   | 4640.3 | 4668.2 | 4841.9 | 5211.0 | 5739.8 | 6293.5 | 6654.8 | 6614.5  | 6299.8  | 6056.2  | 6006.6  |
| 27.5° | 4415.4 | 4444.8 | 4634.0 | 5035.7 | 5621.9 | 6324.6 | 6890.6 | 6910.8  | 6540.1  | 6222.2  | 6169.5  |
| 30°   | 4238.6 | 4266.5 | 4468.1 | 4894.6 | 5470.0 | 6293.5 | 7096.9 | 7236.4  | 6785.1  | 6366.4  | 6290.4  |
| 32.5° | 4044.8 | 4080.4 | 4292.9 | 4722.5 | 5290.0 | 6219.1 | 7276.8 | 7588.5  | 7068.9  | 6521.5  | 6425.3  |
| 35°   | 3799.7 | 3832.3 | 4055.6 | 4486.7 | 5054.4 | 6099.7 | 7427.2 | 7979.3  | 7475.3  | 6757.2  | 6650.2  |
| 37.5° | 3501.9 | 3533.0 | 3754.7 | 4192.0 | 4820.2 | 5932.2 | 7541.9 | 8419.8  | 7959.1  | 7096.9  | 6954.2  |
| 40°   | 3202.6 | 3232.0 | 3439.9 | 3863.2 | 4539.4 | 5718.2 | 7582.3 | 8850.9  | 8514.4  | 7563.7  | 7411.7  |
| 42.5° | 2928.1 | 2954.5 | 3145.2 | 3539.1 | 4224.6 | 5445.2 | 7529.5 | 9226.2  | 9012.2  | 7889.3  | 7694.0  |
| 45°   | 2675.2 | 2698.5 | 2867.5 | 3235.1 | 3897.4 | 5113.3 | 7371.4 | 9629.5  | 9604.7  | 8122.0  | 7858.4  |
| 47.5° | 2386.8 | 2410.1 | 2585.4 | 2940.5 | 3570.2 | 4724.0 | 7103.0 | 10026.4 | 10428.1 | 8649.3  | 8345.3  |
| 50°   | 2034.7 | 2054.9 | 2234.8 | 2600.8 | 3230.5 | 4309.9 | 6730.9 | 10338.3 | 11467.3 | 9448.0  | 9066.5  |
| 52.5° | 1617.6 | 1639.3 | 1814.6 | 2180.6 | 2827.3 | 3864.8 | 6240.8 | 10541.4 | 12667.7 | 10614.3 | 10144.3 |
| 55°   | 1203.5 | 1219.0 | 1370.9 | 1699.8 | 2327.9 | 3357.7 | 5626.6 | 10598.8 | 14029.3 | 12208.6 | 11620.8 |
| 57.5° | 873.2  | 882.4  | 980.2  | 1225.2 | 1764.9 | 2723.3 | 4880.6 | 10449.9 | 15650.0 | 14252.6 | 13512.9 |
| 60°   | 707.2  | 710.3  | 739.7  | 848.3  | 1226.7 | 2006.8 | 3979.6 | 9938.1  | 17408.7 | 16887.6 | 15955.6 |
| 62.5° | 642.1  | 642.1  | 649.8  | 679.3  | 829.7  | 1324.5 | 2889.3 | 8877.3  | 19294.6 | 20217.4 | 18968.9 |
| 65°   | 597.1  | 597.1  | 600.2  | 614.2  | 654.5  | 843.7  | 1823.9 | 7149.6  | 20884.3 | 24117.8 | 22539.0 |
| 67.5° | 556.8  | 558.3  | 556.8  | 561.4  | 584.7  | 623.5  | 1057.7 | 4938.0  | 21740.4 | 28159.4 | 26455.0 |
| 70°   | 514.9  | 518.0  | 510.2  | 510.2  | 528.9  | 530.4  | 662.3  | 2707.8  | 21030.0 | 31546.6 | 31098.4 |
| 72.5° | 465.2  | 470.0  | 457.6  | 454.4  | 468.3  | 462.2  | 497.8  | 1299.6  | 18055.4 | 32557.8 | 33736.4 |
| 75°   | 421.9  | 428.0  | 400.2  | 392.4  | 392.4  | 387.8  | 404.8  | 666.9   | 11718.5 | 26559.0 | 28407.6 |
| 77.5° | 383.0  | 395.4  | 350.5  | 325.6  | 319.5  | 305.6  | 330.4  | 407.8   | 5125.7  | 12469.1 | 12210.1 |
| 80°   | 316.4  | 333.4  | 288.4  | 259.0  | 248.2  | 232.7  | 260.6  | 285.4   | 1524.5  | 2895.5  | 2773.0  |
| 82.5° | 235.7  | 243.5  | 204.7  | 184.6  | 175.3  | 164.4  | 195.4  | 198.5   | 496.3   | 1025.1  | 1158.6  |
| 85°   | 150.5  | 153.5  | 125.7  | 108.5  | 103.9  | 99.2   | 124.0  | 108.5   | 189.2   | 753.7   | 1094.9  |
| 87.5° | 52.7   | 60.5   | 48.1   | 43.5   | 46.5   | 38.7   | 57.4   | 32.6    | 52.7    | 532.0   | 659.2   |
| 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)