

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: P964070

Luminaire Tested: **NVN-SB3B-740-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964070  
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-SB3B-740-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

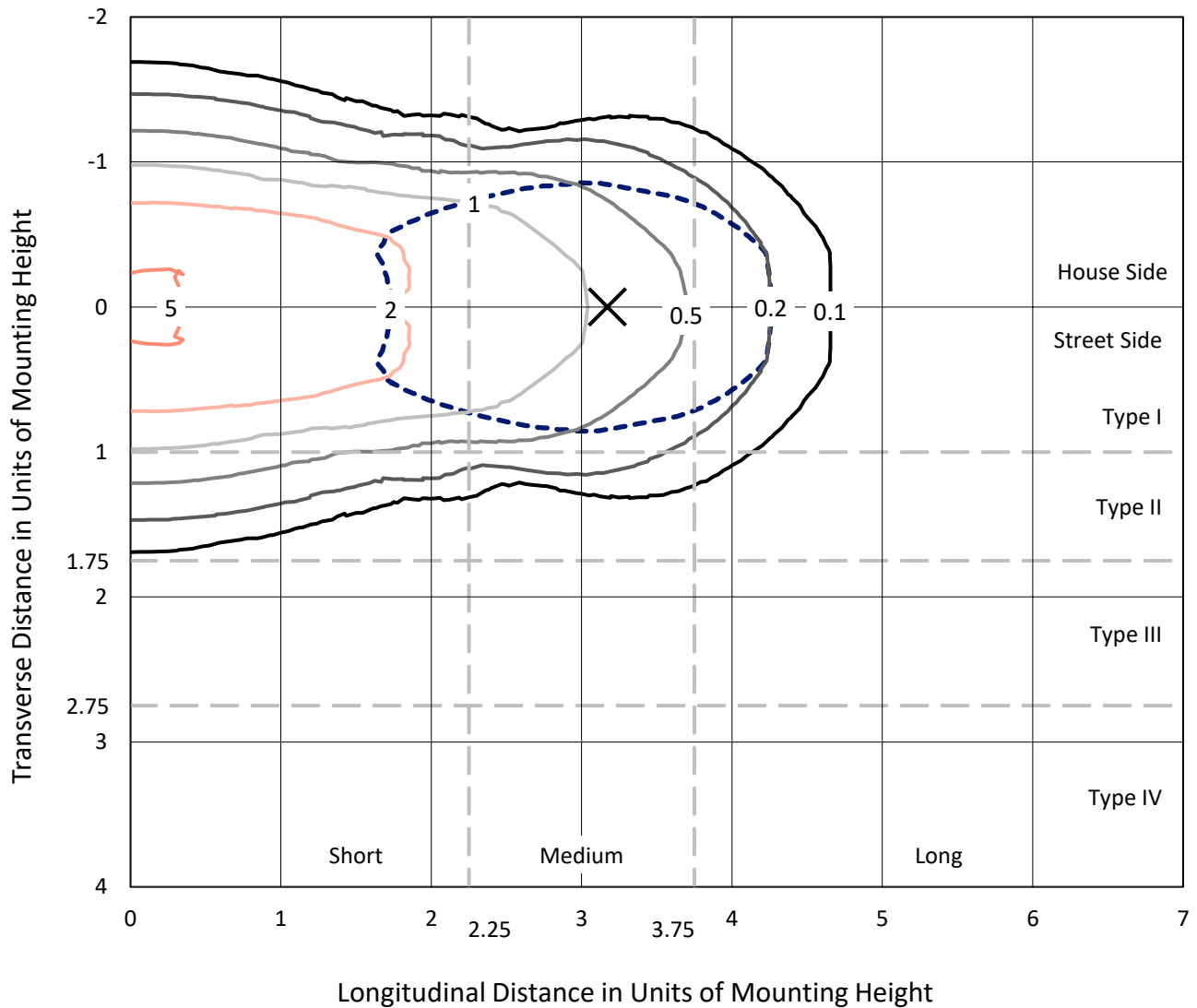
Lumens per Lamp: N/A  
Luminaire Lumens: 18125.1 lumens  
Efficiency: N/A  
Efficacy: 166.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

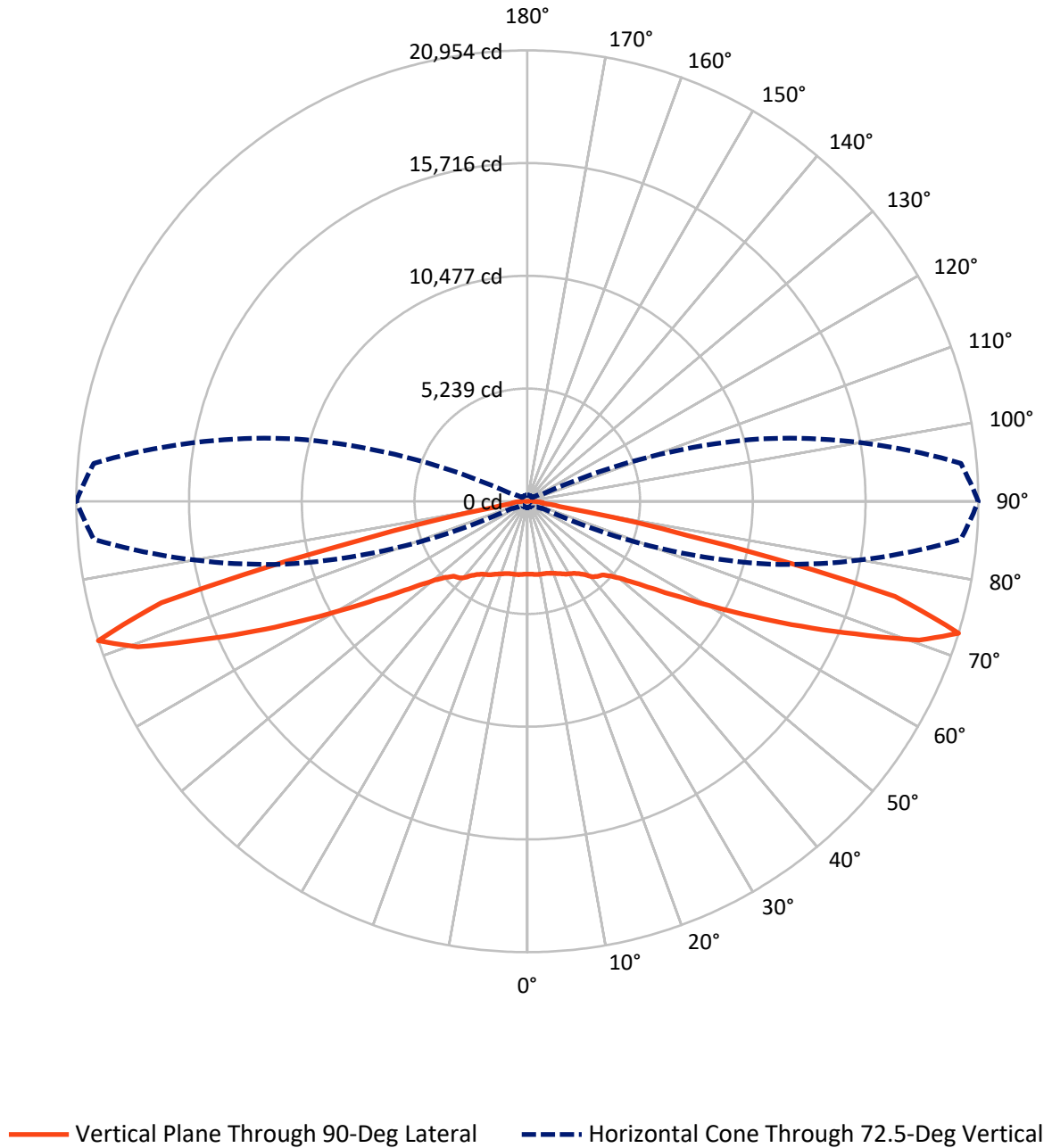
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type 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    | 9062.5   | 0.0    | 9062.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9062.5   | 0.0    | 9062.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18125.1  | 0.0    | 18125.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 328.4   | 1.8       |
| 10°-20°   | 1004.1  | 5.5       |
| 20°-30°   | 1674.3  | 9.2       |
| 30°-40°   | 2302.6  | 12.7      |
| 40°-50°   | 2812.1  | 15.5      |
| 50°-60°   | 3252.5  | 17.9      |
| 60°-70°   | 3878.1  | 21.4      |
| 70°-80°   | 2706.7  | 14.9      |
| 80°-90°   | 166.2   | 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°    | 18125.1 | 100.0     |
| 0°-180°   | 18125.1 | 100.0     |



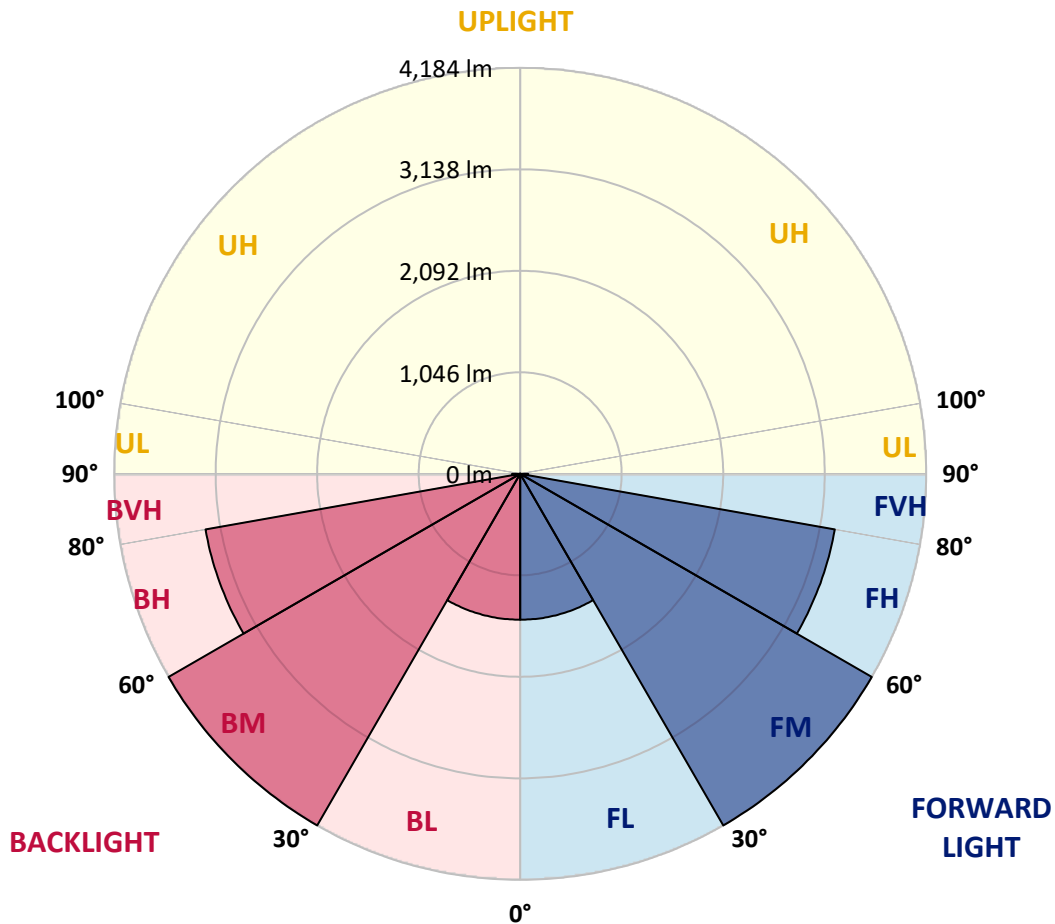
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1503.4 | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 4183.6 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 3292.4 | 18.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 83.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1503.4 | 8.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4183.6 | 23.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3292.4 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 83.1   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 3386.9 | 3386.9 | 3386.9 | 3386.9 | 3386.9 | 3386.9 | 3386.9 | 3386.9 | 3386.9  | 3386.9  | 3386.9  |
| 2.5°  | 3389.8 | 3393.6 | 3393.6 | 3390.7 | 3397.5 | 3391.7 | 3391.7 | 3388.8 | 3391.7  | 3388.8  | 3388.8  |
| 5°    | 3407.1 | 3411.9 | 3413.9 | 3412.8 | 3421.6 | 3416.7 | 3416.7 | 3412.8 | 3413.9  | 3410.9  | 3410.9  |
| 7.5°  | 3439.8 | 3446.6 | 3450.5 | 3455.3 | 3467.8 | 3462.0 | 3458.1 | 3446.6 | 3441.7  | 3434.1  | 3434.1  |
| 10°   | 3450.5 | 3458.1 | 3470.6 | 3495.7 | 3524.6 | 3525.6 | 3514.0 | 3485.1 | 3463.0  | 3445.6  | 3442.8  |
| 12.5° | 3417.7 | 3428.3 | 3454.2 | 3505.3 | 3569.9 | 3595.9 | 3577.6 | 3529.4 | 3486.1  | 3455.3  | 3450.5  |
| 15°   | 3376.2 | 3387.8 | 3427.3 | 3504.4 | 3599.7 | 3660.5 | 3658.5 | 3594.9 | 3525.6  | 3477.4  | 3469.7  |
| 17.5° | 3311.8 | 3323.3 | 3380.1 | 3488.0 | 3622.9 | 3723.0 | 3750.1 | 3684.5 | 3587.2  | 3522.7  | 3512.1  |
| 20°   | 3195.1 | 3205.8 | 3284.7 | 3436.0 | 3630.6 | 3789.5 | 3859.8 | 3802.0 | 3680.7  | 3593.0  | 3576.6  |
| 22.5° | 3043.9 | 3060.3 | 3152.8 | 3346.4 | 3612.3 | 3858.8 | 3985.1 | 3945.5 | 3789.5  | 3668.2  | 3646.0  |
| 25°   | 2882.1 | 2899.4 | 3007.4 | 3236.6 | 3565.1 | 3908.9 | 4133.4 | 4108.3 | 3912.8  | 3761.5  | 3730.8  |
| 27.5° | 2742.4 | 2760.7 | 2878.3 | 3127.8 | 3491.9 | 3928.2 | 4279.8 | 4292.3 | 4062.1  | 3864.7  | 3831.9  |
| 30°   | 2632.6 | 2649.9 | 2775.2 | 3040.0 | 3397.5 | 3908.9 | 4407.9 | 4494.6 | 4214.3  | 3954.2  | 3907.0  |
| 32.5° | 2512.2 | 2534.4 | 2666.3 | 2933.1 | 3285.7 | 3862.7 | 4519.6 | 4713.3 | 4390.6  | 4050.6  | 3990.8  |
| 35°   | 2360.1 | 2380.3 | 2518.9 | 2786.8 | 3139.3 | 3788.5 | 4613.1 | 4956.1 | 4642.9  | 4197.0  | 4130.5  |
| 37.5° | 2175.0 | 2194.3 | 2332.1 | 2603.7 | 2993.8 | 3684.5 | 4684.4 | 5229.5 | 4943.5  | 4407.9  | 4319.3  |
| 40°   | 1989.1 | 2007.5 | 2136.5 | 2399.5 | 2819.5 | 3551.6 | 4709.5 | 5497.4 | 5288.4  | 4697.9  | 4603.5  |
| 42.5° | 1818.7 | 1835.1 | 1953.5 | 2198.2 | 2624.0 | 3382.1 | 4676.7 | 5730.5 | 5597.5  | 4900.1  | 4778.8  |
| 45°   | 1661.6 | 1676.1 | 1781.0 | 2009.4 | 2420.7 | 3175.9 | 4578.5 | 5981.0 | 5965.5  | 5044.6  | 4880.8  |
| 47.5° | 1482.5 | 1496.9 | 1605.8 | 1826.3 | 2217.5 | 2934.2 | 4411.8 | 6227.6 | 6477.1  | 5372.1  | 5183.3  |
| 50°   | 1263.8 | 1276.3 | 1388.1 | 1615.4 | 2006.5 | 2676.9 | 4180.6 | 6421.2 | 7122.4  | 5868.2  | 5631.2  |
| 52.5° | 1004.7 | 1018.1 | 1127.0 | 1354.3 | 1756.0 | 2400.4 | 3876.2 | 6547.4 | 7868.0  | 6592.6  | 6300.8  |
| 55°   | 747.5  | 757.2  | 851.6  | 1055.8 | 1445.9 | 2085.5 | 3494.7 | 6583.0 | 8713.7  | 7582.8  | 7217.7  |
| 57.5° | 542.3  | 548.1  | 608.7  | 761.0  | 1096.2 | 1691.5 | 3031.4 | 6490.5 | 9720.4  | 8852.4  | 8393.0  |
| 60°   | 439.2  | 441.2  | 459.5  | 527.0  | 762.0  | 1246.5 | 2471.8 | 6172.7 | 10812.7 | 10489.0 | 9910.1  |
| 62.5° | 398.8  | 398.8  | 403.6  | 421.9  | 515.4  | 822.7  | 1794.6 | 5513.8 | 11984.1 | 12557.2 | 11781.8 |
| 65°   | 370.8  | 370.8  | 372.8  | 381.5  | 406.5  | 524.0  | 1132.8 | 4440.7 | 12971.4 | 14979.9 | 13999.2 |
| 67.5° | 345.8  | 346.8  | 345.8  | 348.7  | 363.2  | 387.2  | 656.9  | 3067.0 | 13503.1 | 17490.1 | 16431.5 |
| 70°   | 319.8  | 321.7  | 316.9  | 316.9  | 328.5  | 329.4  | 411.3  | 1681.9 | 13062.0 | 19593.9 | 19315.5 |
| 72.5° | 288.9  | 291.9  | 284.1  | 282.3  | 290.9  | 287.1  | 309.2  | 807.2  | 11214.4 | 20221.9 | 20954.1 |
| 75°   | 262.0  | 265.9  | 248.6  | 243.7  | 243.7  | 240.8  | 251.4  | 414.2  | 7278.5  | 16496.0 | 17644.2 |
| 77.5° | 237.9  | 245.6  | 217.7  | 202.3  | 198.4  | 189.7  | 205.2  | 253.4  | 3183.6  | 7744.7  | 7583.9  |
| 80°   | 196.5  | 207.2  | 179.2  | 160.8  | 154.2  | 144.5  | 161.8  | 177.2  | 946.9   | 1798.5  | 1722.3  |
| 82.5° | 146.4  | 151.2  | 127.2  | 114.6  | 108.9  | 102.1  | 121.4  | 123.3  | 308.2   | 636.7   | 719.6   |
| 85°   | 93.5   | 95.3   | 78.0   | 67.4   | 64.6   | 61.6   | 77.1   | 67.4   | 117.6   | 468.1   | 680.1   |
| 87.5° | 32.8   | 37.6   | 29.8   | 27.0   | 28.9   | 24.1   | 35.7   | 20.2   | 32.8    | 330.4   | 409.4   |
| 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)