

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: P967852

Luminaire Tested: **NVN-SB5A-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967852  
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-SB5A-827-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19979.3 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

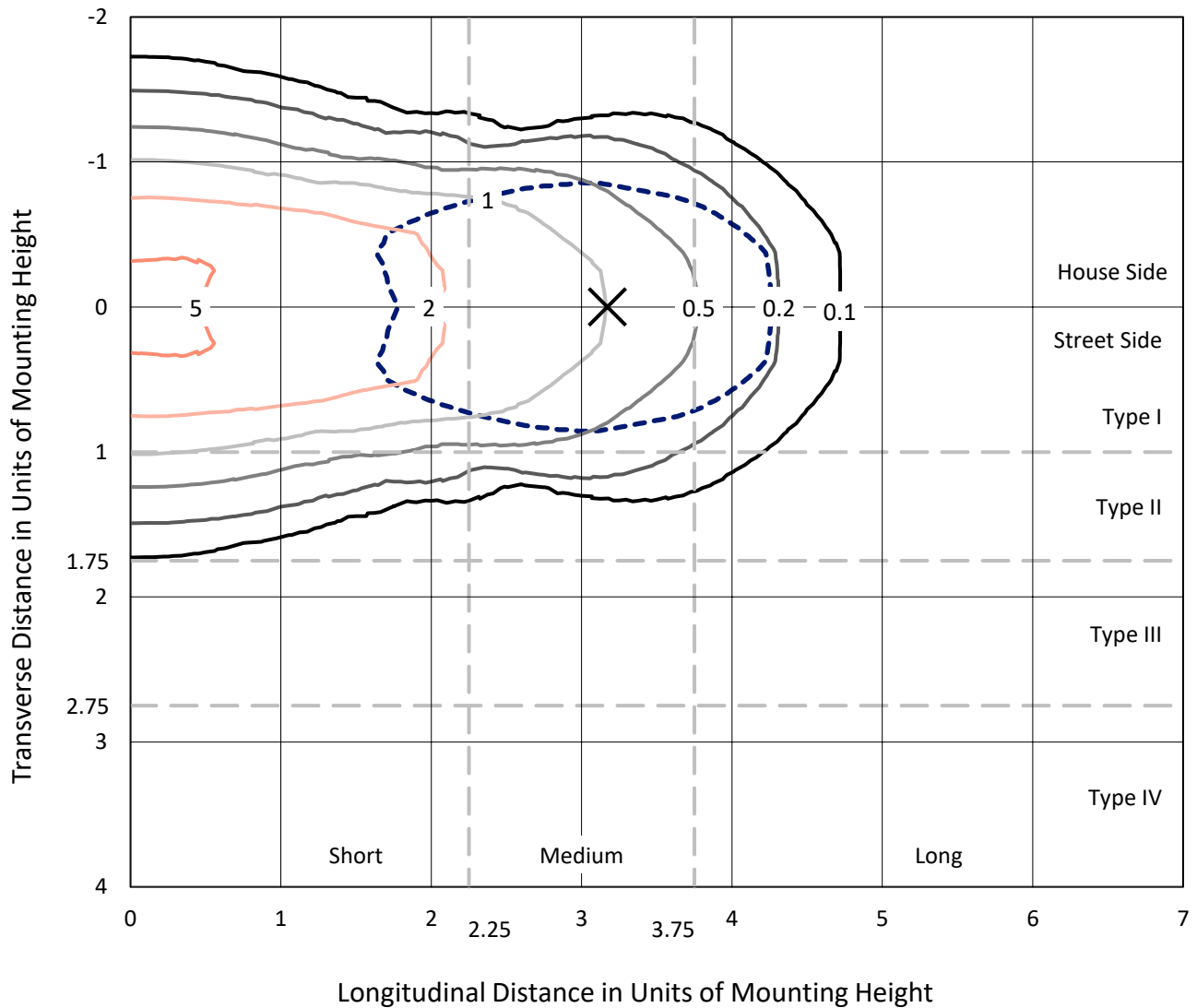
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

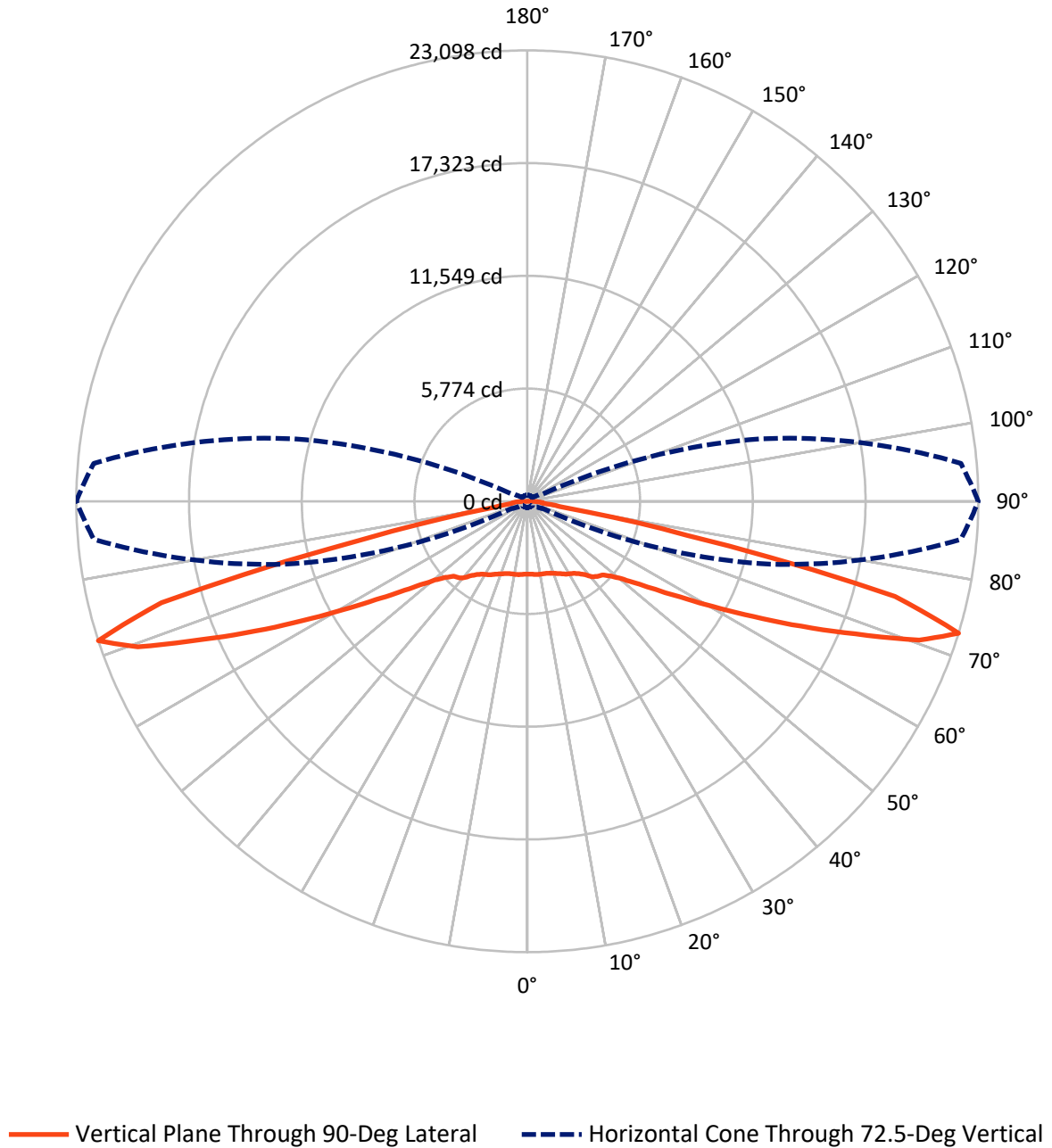
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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    | 9989.6   | 0.0    | 9989.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9989.6   | 0.0    | 9989.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19979.3  | 0.0    | 19979.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 362.0   | 1.8       |
| 10°-20°   | 1106.8  | 5.5       |
| 20°-30°   | 1845.5  | 9.2       |
| 30°-40°   | 2538.2  | 12.7      |
| 40°-50°   | 3099.8  | 15.5      |
| 50°-60°   | 3585.3  | 17.9      |
| 60°-70°   | 4274.8  | 21.4      |
| 70°-80°   | 2983.6  | 14.9      |
| 80°-90°   | 183.3   | 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°    | 19979.3 | 100.0     |
| 0°-180°   | 19979.3 | 100.0     |

**Coefficient of Utilization**



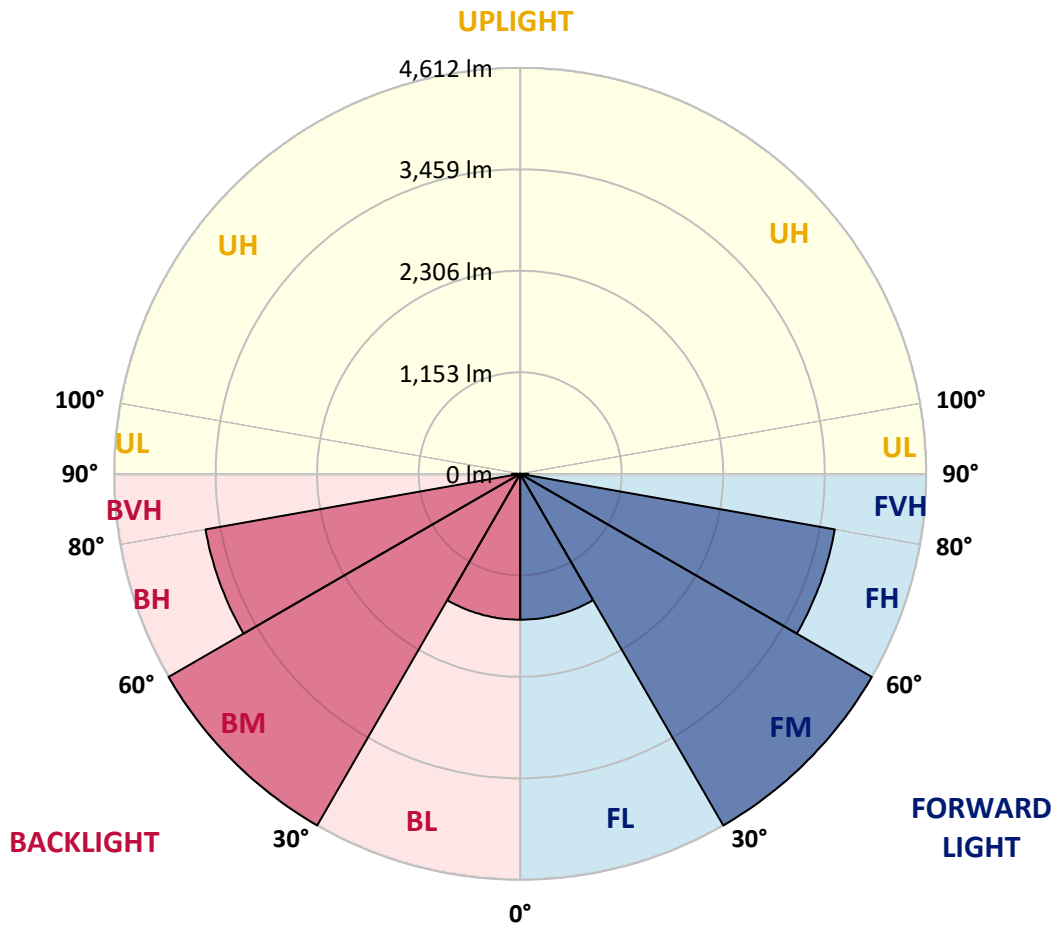
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1657.2 | 8.3       |                         |      |         |
| FM (30°-60°)   | 4611.6 | 23.1      |                         |      |         |
| FH (60°-80°)   | 3629.2 | 18.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 91.6   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 1657.2 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 4611.6 | 23.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 3629.2 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 91.6   | 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°    | 3733.4 | 3733.4 | 3733.4 | 3733.4 | 3733.4 | 3733.4 | 3733.4 | 3733.4 | 3733.4  | 3733.4  | 3733.4  |
| 2.5°  | 3736.5 | 3740.7 | 3740.7 | 3737.6 | 3745.0 | 3738.7 | 3738.7 | 3735.5 | 3738.7  | 3735.5  | 3735.5  |
| 5°    | 3755.6 | 3760.9 | 3763.1 | 3762.1 | 3771.6 | 3766.3 | 3766.3 | 3762.1 | 3763.1  | 3759.9  | 3759.9  |
| 7.5°  | 3791.8 | 3799.2 | 3803.5 | 3808.7 | 3822.5 | 3816.2 | 3811.9 | 3799.2 | 3793.8  | 3785.3  | 3785.3  |
| 10°   | 3803.5 | 3811.9 | 3825.7 | 3853.3 | 3885.2 | 3886.3 | 3873.5 | 3841.6 | 3817.2  | 3798.1  | 3795.0  |
| 12.5° | 3767.3 | 3779.0 | 3807.7 | 3863.9 | 3935.1 | 3963.8 | 3943.6 | 3890.5 | 3842.7  | 3808.7  | 3803.5  |
| 15°   | 3721.7 | 3734.4 | 3777.9 | 3862.9 | 3968.0 | 4034.9 | 4032.8 | 3962.6 | 3886.3  | 3833.2  | 3824.7  |
| 17.5° | 3650.5 | 3663.2 | 3725.9 | 3844.9 | 3993.5 | 4103.9 | 4133.6 | 4061.5 | 3954.2  | 3883.1  | 3871.4  |
| 20°   | 3522.0 | 3533.7 | 3620.8 | 3787.5 | 4002.0 | 4177.2 | 4254.7 | 4191.0 | 4057.2  | 3960.6  | 3942.6  |
| 22.5° | 3355.3 | 3373.4 | 3475.4 | 3688.8 | 3981.8 | 4253.6 | 4392.7 | 4349.2 | 4177.2  | 4043.4  | 4018.9  |
| 25°   | 3177.0 | 3196.1 | 3315.0 | 3567.7 | 3929.7 | 4308.9 | 4556.2 | 4528.7 | 4313.1  | 4146.4  | 4112.4  |
| 27.5° | 3023.0 | 3043.1 | 3172.7 | 3447.7 | 3849.1 | 4330.1 | 4717.7 | 4731.4 | 4477.7  | 4260.0  | 4223.9  |
| 30°   | 2902.0 | 2921.0 | 3059.1 | 3351.1 | 3745.0 | 4308.9 | 4858.9 | 4954.4 | 4645.4  | 4358.7  | 4306.7  |
| 32.5° | 2769.2 | 2793.6 | 2939.1 | 3233.3 | 3621.8 | 4257.8 | 4982.0 | 5195.4 | 4839.7  | 4464.9  | 4399.1  |
| 35°   | 2601.4 | 2623.8 | 2776.6 | 3071.8 | 3460.5 | 4176.2 | 5085.0 | 5463.0 | 5117.9  | 4626.3  | 4553.0  |
| 37.5° | 2397.6 | 2418.8 | 2570.7 | 2870.1 | 3300.1 | 4061.5 | 5163.6 | 5764.6 | 5449.2  | 4858.9  | 4761.2  |
| 40°   | 2192.7 | 2212.9 | 2355.1 | 2645.0 | 3107.9 | 3914.9 | 5191.2 | 6059.8 | 5829.4  | 5178.5  | 5074.4  |
| 42.5° | 2004.7 | 2022.7 | 2153.3 | 2423.1 | 2892.3 | 3728.0 | 5155.1 | 6316.8 | 6170.2  | 5401.4  | 5267.7  |
| 45°   | 1831.7 | 1847.6 | 1963.3 | 2214.9 | 2668.4 | 3500.8 | 5046.8 | 6592.8 | 6575.8  | 5560.7  | 5380.2  |
| 47.5° | 1634.2 | 1650.0 | 1770.1 | 2013.2 | 2444.3 | 3234.3 | 4863.1 | 6864.6 | 7139.6  | 5921.7  | 5713.7  |
| 50°   | 1393.1 | 1406.9 | 1530.1 | 1780.6 | 2211.7 | 2950.8 | 4608.3 | 7078.0 | 7851.1  | 6468.6  | 6207.4  |
| 52.5° | 1107.5 | 1122.4 | 1242.3 | 1492.9 | 1935.7 | 2646.0 | 4272.7 | 7217.1 | 8672.9  | 7267.0  | 6945.3  |
| 55°   | 824.0  | 834.6  | 938.7  | 1163.8 | 1593.8 | 2298.9 | 3852.3 | 7256.5 | 9605.2  | 8358.6  | 7956.2  |
| 57.5° | 597.8  | 604.1  | 671.1  | 838.9  | 1208.4 | 1864.6 | 3341.5 | 7154.5 | 10714.7 | 9758.1  | 9251.5  |
| 60°   | 484.2  | 486.4  | 506.5  | 580.8  | 839.9  | 1374.0 | 2724.7 | 6804.2 | 11918.9 | 11562.1 | 10923.9 |
| 62.5° | 439.6  | 439.6  | 444.8  | 465.0  | 568.1  | 906.8  | 1978.1 | 6077.8 | 13210.0 | 13841.8 | 12987.1 |
| 65°   | 408.8  | 408.8  | 410.9  | 420.5  | 448.1  | 577.6  | 1248.7 | 4895.0 | 14298.4 | 16512.3 | 15431.4 |
| 67.5° | 381.2  | 382.2  | 381.2  | 384.4  | 400.3  | 426.8  | 724.2  | 3380.9 | 14884.5 | 19279.4 | 18112.5 |
| 70°   | 352.5  | 354.6  | 349.3  | 349.3  | 362.0  | 363.2  | 453.4  | 1853.9 | 14398.2 | 21598.4 | 21291.5 |
| 72.5° | 318.6  | 321.7  | 313.2  | 311.1  | 320.6  | 316.4  | 340.8  | 889.8  | 12361.7 | 22290.7 | 23097.7 |
| 75°   | 288.8  | 293.0  | 274.0  | 268.7  | 268.7  | 265.5  | 277.2  | 456.5  | 8023.1  | 18183.6 | 19449.3 |
| 77.5° | 262.3  | 270.8  | 240.0  | 222.9  | 218.7  | 209.2  | 226.2  | 279.2  | 3509.3  | 8537.0  | 8359.7  |
| 80°   | 216.6  | 228.3  | 197.5  | 177.3  | 169.8  | 159.3  | 178.4  | 195.4  | 1043.8  | 1982.5  | 1898.5  |
| 82.5° | 161.4  | 166.7  | 140.1  | 126.4  | 120.0  | 112.5  | 133.8  | 135.9  | 339.8   | 701.8   | 793.1   |
| 85°   | 103.0  | 105.2  | 86.0   | 74.3   | 71.1   | 68.0   | 85.0   | 74.3   | 129.6   | 516.1   | 749.7   |
| 87.5° | 36.1   | 41.4   | 32.9   | 29.7   | 31.9   | 26.5   | 39.3   | 22.3   | 36.1    | 364.2   | 451.3   |
| 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)