

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: P883765

Luminaire Tested: **NVN-SB4B-735-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4B-735-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

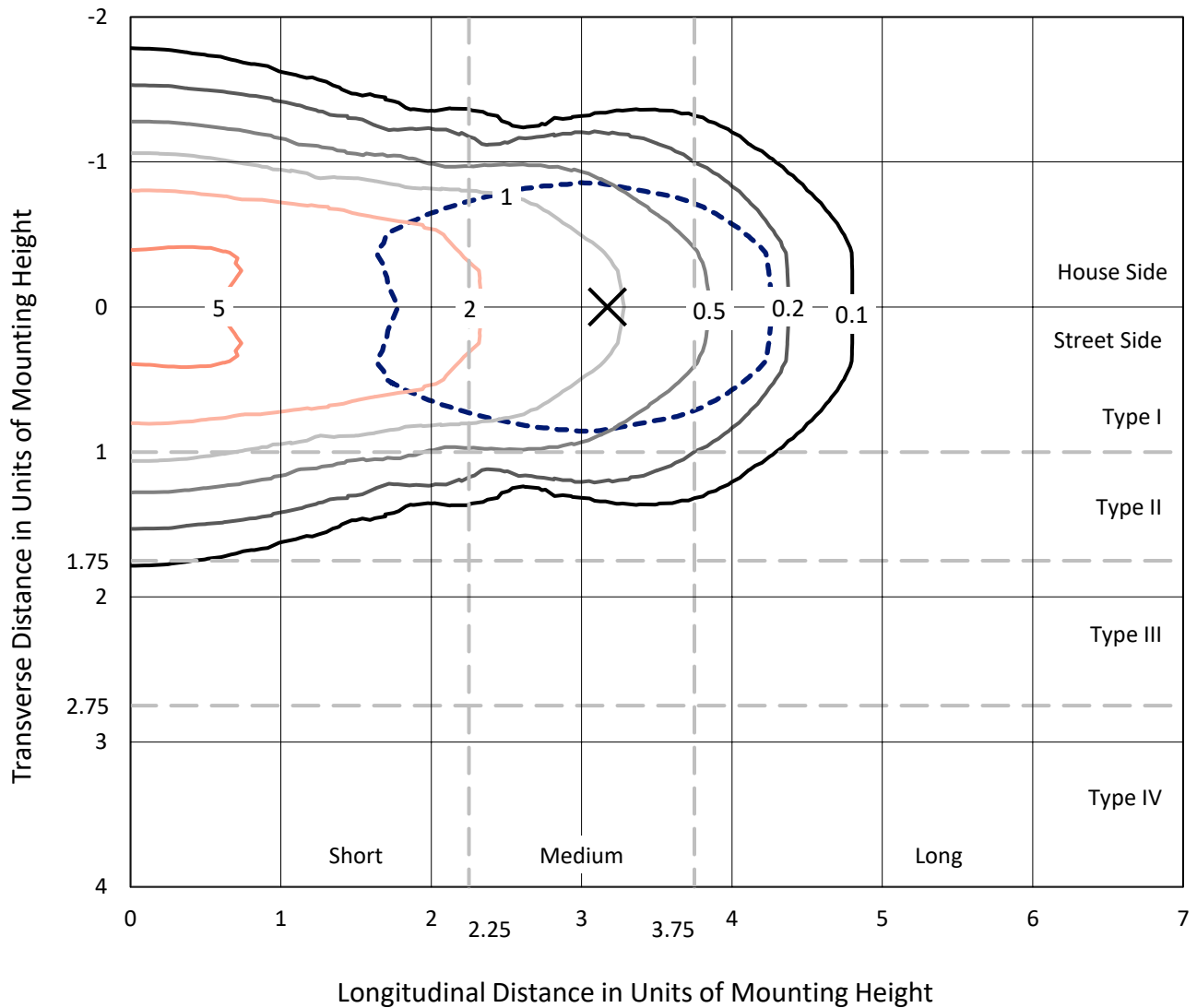
Lumens per Lamp: N/A  
Luminaire Lumens: 22576 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): 120.0  
Input Current (Ain): 1.255  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

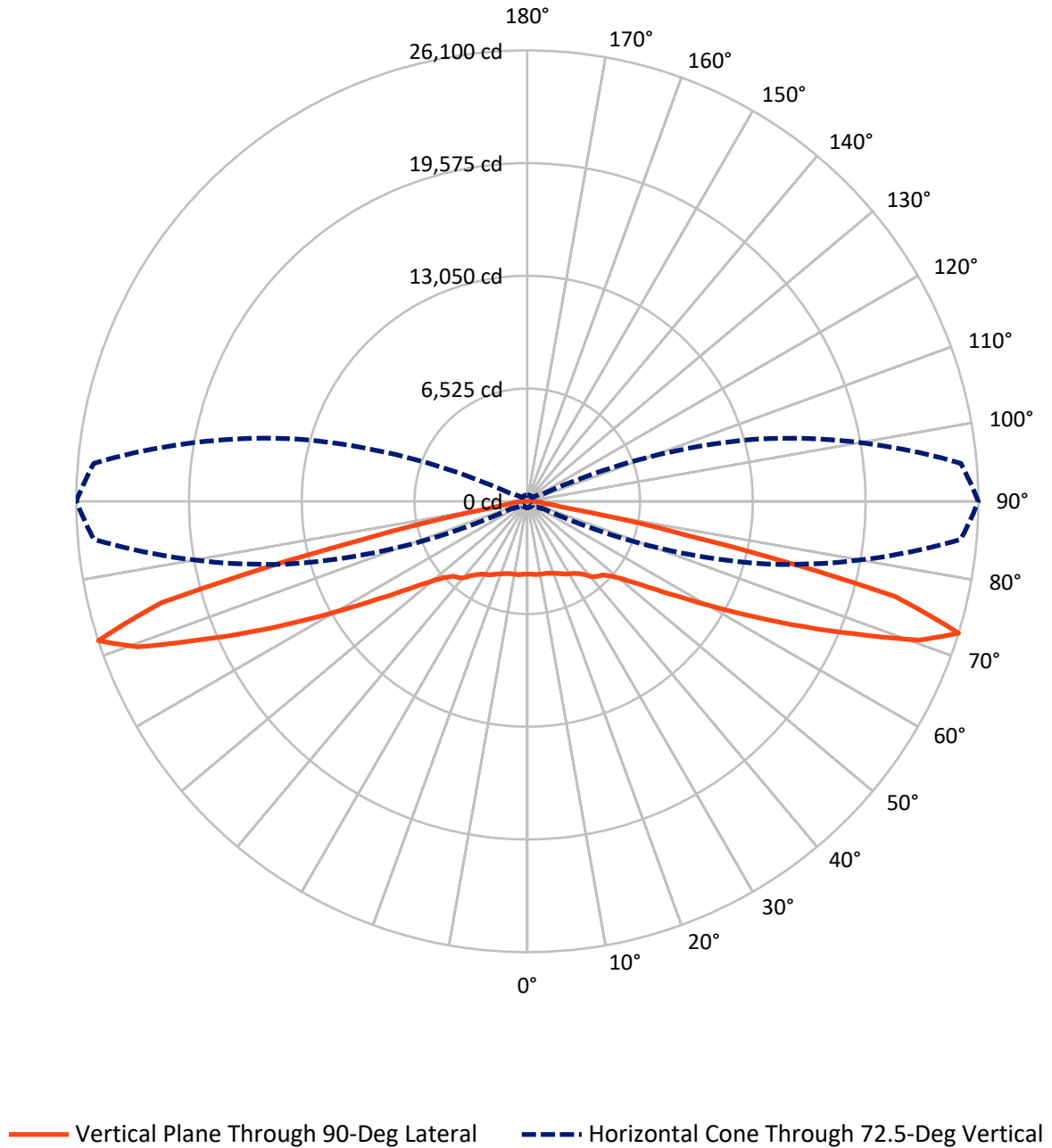
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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    | 11288.0  | 0.0    | 11288.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11288.0  | 0.0    | 11288.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22576.0  | 0.0    | 22576.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 409.0   | 1.8       |
| 10°-20°   | 1250.7  | 5.5       |
| 20°-30°   | 2085.4  | 9.2       |
| 30°-40°   | 2868.1  | 12.7      |
| 40°-50°   | 3502.7  | 15.5      |
| 50°-60°   | 4051.2  | 17.9      |
| 60°-70°   | 4830.4  | 21.4      |
| 70°-80°   | 3371.3  | 14.9      |
| 80°-90°   | 207.1   | 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°    | 22576.0 | 100.0     |
| 0°-180°   | 22576.0 | 100.0     |

**Coefficient of Utilization**



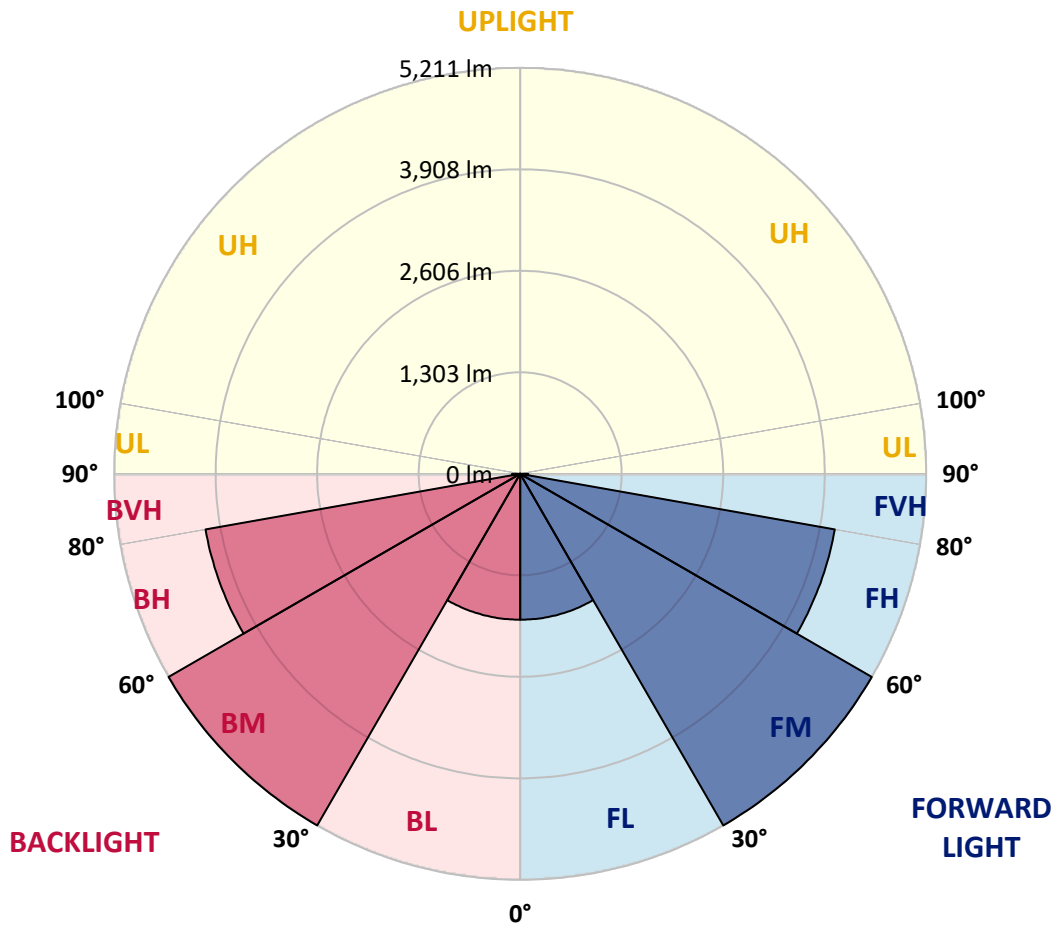
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1872.6 | 8.3       |                         |      |         |
| FM (30°-60°)   | 5211.0 | 23.1      |                         |      |         |
| FH (60°-80°)   | 4100.9 | 18.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 103.5  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 1872.6 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 5211.0 | 23.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 4100.9 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 103.5  | 0.5       |                         |      | G2/225  |
| 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°    | 4218.6 | 4218.6 | 4218.6 | 4218.6 | 4218.6 | 4218.6 | 4218.6 | 4218.6 | 4218.6  | 4218.6  | 4218.6  |
| 2.5°  | 4222.2 | 4227.0 | 4227.0 | 4223.4 | 4231.8 | 4224.6 | 4224.6 | 4221.0 | 4224.6  | 4221.0  | 4221.0  |
| 5°    | 4243.8 | 4249.8 | 4252.2 | 4251.0 | 4261.8 | 4255.8 | 4255.8 | 4251.0 | 4252.2  | 4248.6  | 4248.6  |
| 7.5°  | 4284.6 | 4293.0 | 4297.8 | 4303.8 | 4319.3 | 4312.1 | 4307.4 | 4293.0 | 4287.0  | 4277.4  | 4277.4  |
| 10°   | 4297.8 | 4307.4 | 4322.9 | 4354.1 | 4390.1 | 4391.3 | 4376.9 | 4340.9 | 4313.3  | 4291.8  | 4288.2  |
| 12.5° | 4257.0 | 4270.2 | 4302.6 | 4366.1 | 4446.5 | 4478.9 | 4456.1 | 4396.1 | 4342.1  | 4303.8  | 4297.8  |
| 15°   | 4205.4 | 4219.8 | 4269.0 | 4364.9 | 4483.7 | 4559.3 | 4556.9 | 4477.7 | 4391.3  | 4331.3  | 4321.7  |
| 17.5° | 4125.0 | 4139.4 | 4210.2 | 4344.5 | 4512.5 | 4637.3 | 4670.9 | 4589.3 | 4468.1  | 4387.7  | 4374.5  |
| 20°   | 3979.8 | 3993.0 | 4091.4 | 4279.8 | 4522.1 | 4720.1 | 4807.7 | 4735.7 | 4584.5  | 4475.3  | 4454.9  |
| 22.5° | 3791.4 | 3811.8 | 3927.0 | 4168.2 | 4499.3 | 4806.5 | 4963.7 | 4914.5 | 4720.1  | 4568.9  | 4541.3  |
| 25°   | 3589.9 | 3611.5 | 3745.8 | 4031.4 | 4440.5 | 4868.9 | 5148.4 | 5117.2 | 4873.7  | 4685.3  | 4646.9  |
| 27.5° | 3415.9 | 3438.7 | 3585.1 | 3895.8 | 4349.3 | 4892.9 | 5330.8 | 5346.4 | 5059.6  | 4813.7  | 4772.9  |
| 30°   | 3279.1 | 3300.7 | 3456.7 | 3786.6 | 4231.8 | 4868.9 | 5490.4 | 5598.4 | 5249.2  | 4925.3  | 4866.5  |
| 32.5° | 3129.1 | 3156.7 | 3321.1 | 3653.4 | 4092.6 | 4811.3 | 5629.6 | 5870.7 | 5468.8  | 5045.2  | 4970.9  |
| 35°   | 2939.6 | 2964.8 | 3137.5 | 3471.1 | 3910.2 | 4718.9 | 5745.9 | 6173.1 | 5783.1  | 5227.6  | 5144.8  |
| 37.5° | 2709.2 | 2733.2 | 2904.8 | 3243.1 | 3729.0 | 4589.3 | 5834.7 | 6513.8 | 6157.5  | 5490.4  | 5380.0  |
| 40°   | 2477.6 | 2500.4 | 2661.2 | 2988.7 | 3511.9 | 4423.7 | 5865.9 | 6847.4 | 6587.0  | 5851.5  | 5733.9  |
| 42.5° | 2265.3 | 2285.7 | 2433.2 | 2738.0 | 3268.3 | 4212.6 | 5825.1 | 7137.7 | 6972.1  | 6103.5  | 5952.3  |
| 45°   | 2069.7 | 2087.7 | 2218.5 | 2502.8 | 3015.1 | 3955.8 | 5702.7 | 7449.7 | 7430.5  | 6283.5  | 6079.5  |
| 47.5° | 1846.5 | 1864.5 | 2000.1 | 2274.9 | 2762.0 | 3654.6 | 5495.2 | 7756.8 | 8067.6  | 6691.4  | 6456.2  |
| 50°   | 1574.2 | 1589.8 | 1728.9 | 2012.1 | 2499.2 | 3334.3 | 5207.2 | 7998.0 | 8871.5  | 7309.3  | 7014.1  |
| 52.5° | 1251.4 | 1268.2 | 1403.8 | 1686.9 | 2187.3 | 2989.9 | 4828.1 | 8155.2 | 9800.1  | 8211.6  | 7848.0  |
| 55°   | 931.1  | 943.1  | 1060.6 | 1315.0 | 1800.9 | 2597.6 | 4352.9 | 8199.6 | 10853.6 | 9445.0  | 8990.2  |
| 57.5° | 675.5  | 682.7  | 758.3  | 947.9  | 1365.4 | 2106.9 | 3775.8 | 8084.4 | 12107.4 | 11026.3 | 10454.0 |
| 60°   | 547.1  | 549.5  | 572.3  | 656.3  | 949.1  | 1552.6 | 3078.7 | 7688.4 | 13468.0 | 13064.8 | 12343.7 |
| 62.5° | 496.7  | 496.7  | 502.7  | 525.5  | 641.9  | 1024.6 | 2235.3 | 6867.8 | 14926.9 | 15640.8 | 14675.0 |
| 65°   | 461.9  | 461.9  | 464.3  | 475.1  | 506.3  | 652.7  | 1411.0 | 5531.2 | 16156.8 | 18658.4 | 17437.0 |
| 67.5° | 430.7  | 431.9  | 430.7  | 434.3  | 452.3  | 482.3  | 818.3  | 3820.2 | 16819.1 | 21785.1 | 20466.5 |
| 70°   | 398.3  | 400.7  | 394.7  | 394.7  | 409.1  | 410.3  | 512.3  | 2094.9 | 16269.5 | 24405.5 | 24058.8 |
| 72.5° | 359.9  | 363.5  | 353.9  | 351.5  | 362.3  | 357.5  | 385.1  | 1005.4 | 13968.3 | 25187.8 | 26099.7 |
| 75°   | 326.4  | 331.2  | 309.6  | 303.6  | 303.6  | 300.0  | 313.2  | 515.9  | 9065.8  | 20546.9 | 21977.1 |
| 77.5° | 296.4  | 306.0  | 271.2  | 252.0  | 247.2  | 236.4  | 255.6  | 315.6  | 3965.4  | 9646.5  | 9446.2  |
| 80°   | 244.8  | 258.0  | 223.2  | 200.4  | 192.0  | 180.0  | 201.6  | 220.8  | 1179.4  | 2240.1  | 2145.3  |
| 82.5° | 182.4  | 188.4  | 158.4  | 142.8  | 135.6  | 127.2  | 151.2  | 153.6  | 383.9   | 793.1   | 896.3   |
| 85°   | 116.4  | 118.8  | 97.2   | 84.0   | 80.4   | 76.8   | 96.0   | 84.0   | 146.4   | 583.1   | 847.1   |
| 87.5° | 40.8   | 46.8   | 37.2   | 33.6   | 36.0   | 30.0   | 44.4   | 25.2   | 40.8    | 411.5   | 509.9   |
| 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)