

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: P968379

Luminaire Tested: **NVN-SB5B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968379
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-SB5B-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25080.7 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

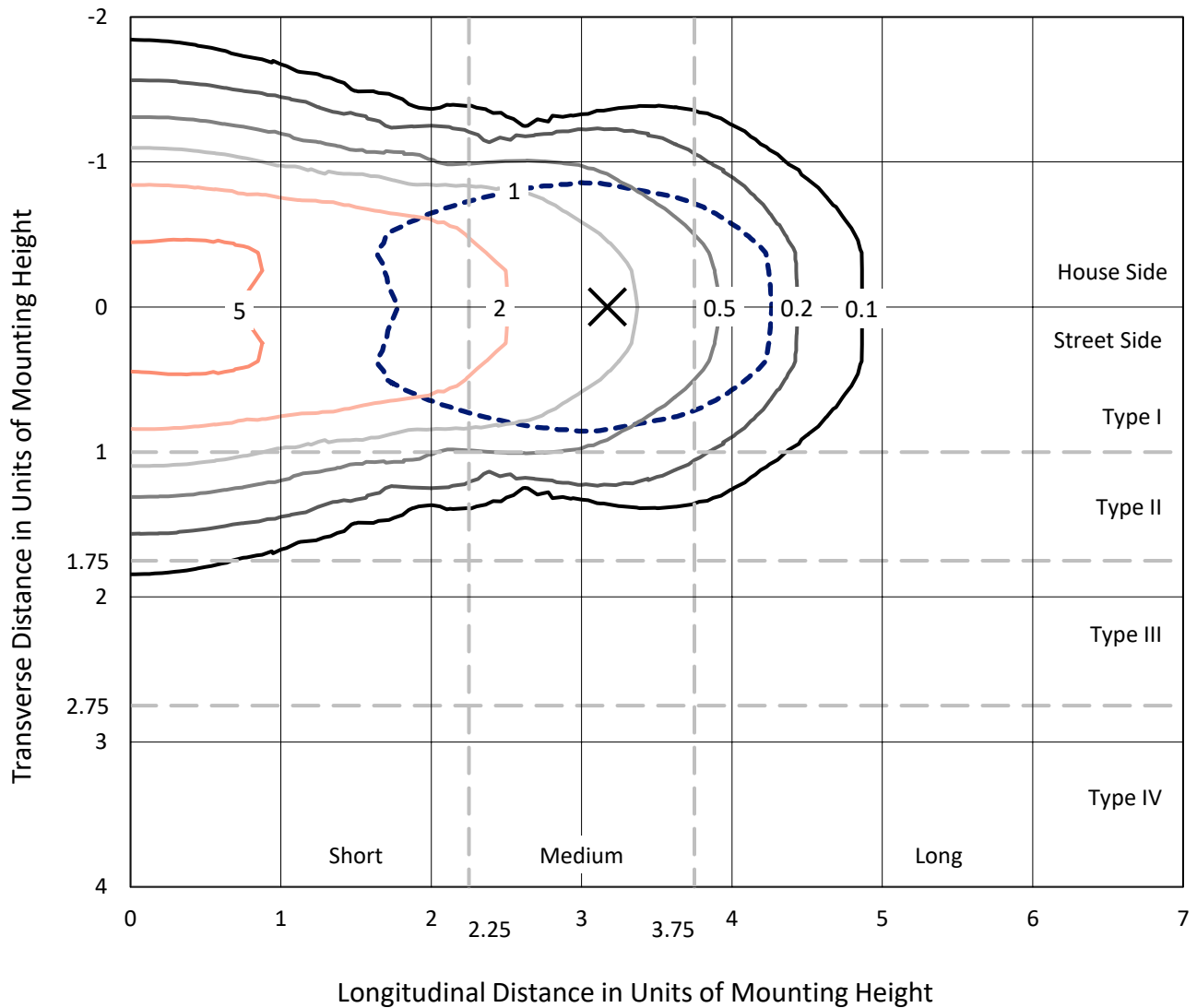
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

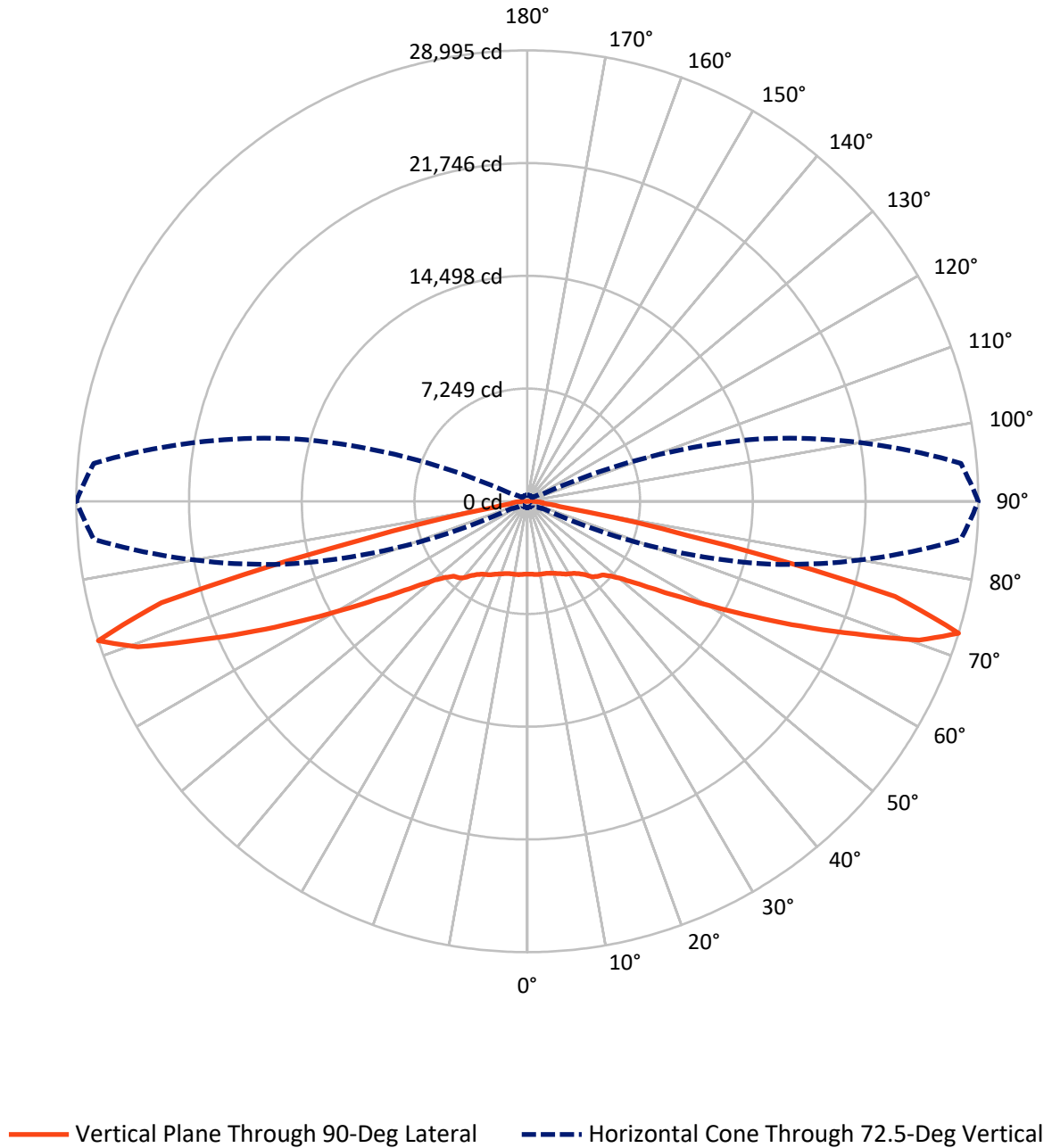
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12540.4 | 0.0 | 12540.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12540.4 | 0.0 | 12540.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25080.7 | 0.0 | 25080.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 454.4 | 1.8 |
| 10°-20° | 1389.4 | 5.5 |
| 20°-30° | 2316.8 | 9.2 |
| 30°-40° | 3186.3 | 12.7 |
| 40°-50° | 3891.3 | 15.5 |
| 50°-60° | 4500.7 | 17.9 |
| 60°-70° | 5366.4 | 21.4 |
| 70°-80° | 3745.4 | 14.9 |
| 80°-90° | 230.0 | 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° | 25080.7 | 100.0 |
| 0°-180° | 25080.7 | 100.0 |

Coefficient of Utilization



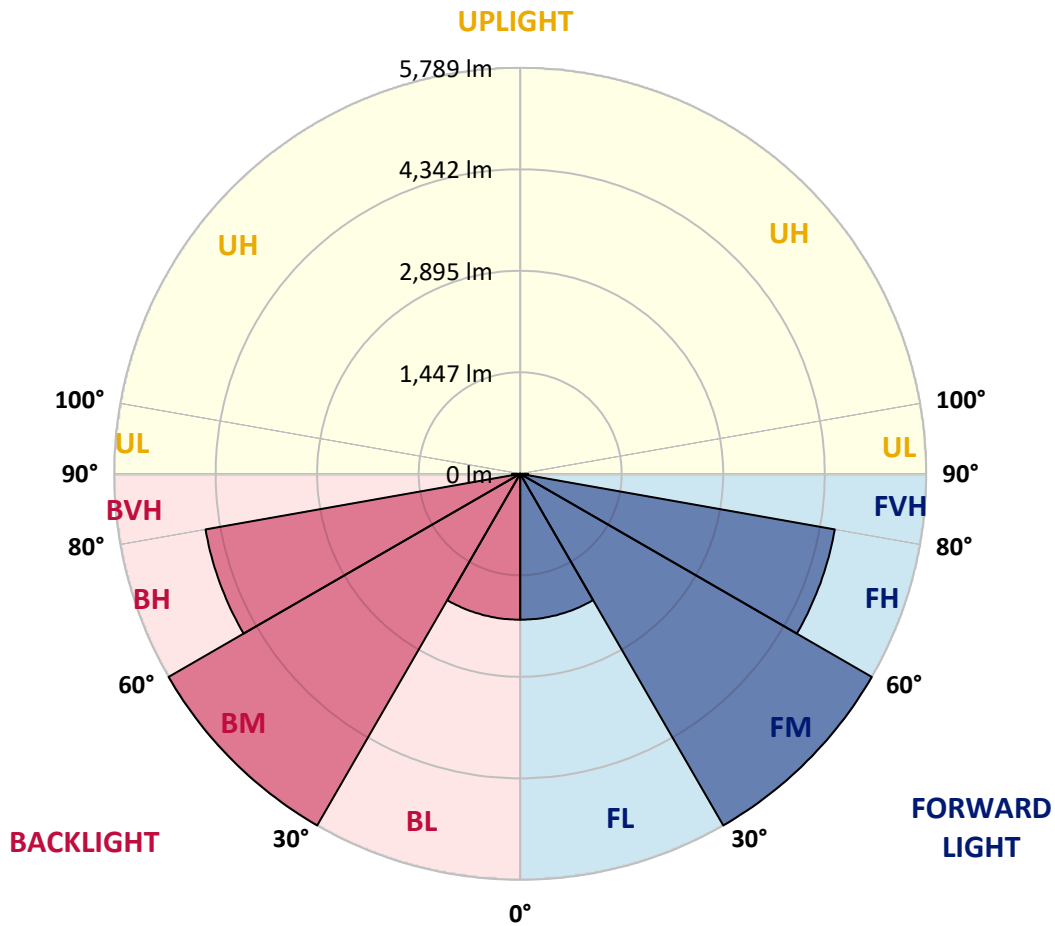
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2080.3 | 8.3 | | | |
| FM (30°-60°) | 5789.2 | 23.1 | | | |
| FH (60°-80°) | 4555.9 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 115.0 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2080.3 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 5789.2 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 4555.9 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 115.0 | 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° | 4686.6 | 4686.6 | 4686.6 | 4686.6 | 4686.6 | 4686.6 | 4686.6 | 4686.6 | 4686.6 | 4686.6 | 4686.6 |
| 2.5° | 4690.6 | 4695.9 | 4695.9 | 4691.9 | 4701.3 | 4693.3 | 4693.3 | 4689.3 | 4693.3 | 4689.3 | 4689.3 |
| 5° | 4714.6 | 4721.3 | 4723.9 | 4722.6 | 4734.6 | 4727.9 | 4727.9 | 4722.6 | 4723.9 | 4719.9 | 4719.9 |
| 7.5° | 4759.9 | 4769.2 | 4774.6 | 4781.2 | 4798.5 | 4790.5 | 4785.2 | 4769.2 | 4762.6 | 4751.9 | 4751.9 |
| 10° | 4774.6 | 4785.2 | 4802.5 | 4837.2 | 4877.3 | 4878.6 | 4862.5 | 4822.5 | 4791.9 | 4767.9 | 4763.9 |
| 12.5° | 4729.2 | 4743.9 | 4779.9 | 4850.5 | 4939.9 | 4975.9 | 4950.5 | 4883.9 | 4823.9 | 4781.2 | 4774.6 |
| 15° | 4672.0 | 4687.9 | 4742.6 | 4849.2 | 4981.2 | 5065.1 | 5062.5 | 4974.5 | 4878.6 | 4811.9 | 4801.2 |
| 17.5° | 4582.7 | 4598.7 | 4677.3 | 4826.5 | 5013.2 | 5151.8 | 5189.2 | 5098.5 | 4963.9 | 4874.6 | 4859.8 |
| 20° | 4421.3 | 4436.0 | 4545.3 | 4754.6 | 5023.8 | 5243.8 | 5341.1 | 5261.1 | 5093.1 | 4971.9 | 4949.2 |
| 22.5° | 4212.0 | 4234.7 | 4362.7 | 4630.6 | 4998.5 | 5339.7 | 5514.4 | 5459.7 | 5243.8 | 5075.8 | 5045.2 |
| 25° | 3988.2 | 4012.2 | 4161.4 | 4478.6 | 4933.2 | 5409.0 | 5719.6 | 5685.0 | 5414.4 | 5205.2 | 5162.4 |
| 27.5° | 3794.9 | 3820.2 | 3982.8 | 4328.1 | 4831.8 | 5435.7 | 5922.2 | 5939.6 | 5621.0 | 5347.7 | 5302.4 |
| 30° | 3643.0 | 3666.9 | 3840.2 | 4206.7 | 4701.3 | 5409.0 | 6099.5 | 6219.5 | 5831.6 | 5471.7 | 5406.4 |
| 32.5° | 3476.3 | 3506.9 | 3689.6 | 4058.8 | 4546.6 | 5345.1 | 6254.1 | 6522.1 | 6075.5 | 5605.0 | 5522.4 |
| 35° | 3265.6 | 3293.6 | 3485.6 | 3856.2 | 4344.1 | 5242.5 | 6383.4 | 6858.0 | 6424.7 | 5807.5 | 5715.6 |
| 37.5° | 3009.8 | 3036.5 | 3227.0 | 3602.9 | 4142.7 | 5098.5 | 6482.1 | 7236.5 | 6840.6 | 6099.5 | 5976.9 |
| 40° | 2752.5 | 2777.9 | 2956.4 | 3320.4 | 3901.5 | 4914.6 | 6516.7 | 7607.0 | 7317.8 | 6500.8 | 6370.1 |
| 42.5° | 2516.6 | 2539.2 | 2703.2 | 3041.8 | 3631.0 | 4679.9 | 6471.4 | 7929.6 | 7745.7 | 6780.7 | 6612.7 |
| 45° | 2299.3 | 2319.3 | 2464.6 | 2780.5 | 3349.7 | 4394.7 | 6335.4 | 8276.2 | 8254.8 | 6980.6 | 6753.9 |
| 47.5° | 2051.4 | 2071.4 | 2222.0 | 2527.2 | 3068.4 | 4060.1 | 6104.8 | 8617.4 | 8962.7 | 7433.8 | 7172.5 |
| 50° | 1748.9 | 1766.2 | 1920.7 | 2235.3 | 2776.5 | 3704.2 | 5784.9 | 8885.3 | 9855.7 | 8120.3 | 7792.4 |
| 52.5° | 1390.2 | 1408.9 | 1559.5 | 1874.1 | 2430.0 | 3321.7 | 5363.7 | 9060.0 | 10887.4 | 9122.6 | 8718.8 |
| 55° | 1034.3 | 1047.7 | 1178.3 | 1460.9 | 2000.7 | 2885.8 | 4835.8 | 9109.3 | 12057.7 | 10492.8 | 9987.7 |
| 57.5° | 750.4 | 758.4 | 842.4 | 1053.0 | 1516.9 | 2340.6 | 4194.7 | 8981.4 | 13450.7 | 12249.7 | 11613.9 |
| 60° | 607.8 | 610.5 | 635.8 | 729.1 | 1054.3 | 1724.8 | 3420.3 | 8541.4 | 14962.2 | 14514.3 | 13713.3 |
| 62.5° | 551.9 | 551.9 | 558.5 | 583.8 | 713.1 | 1138.4 | 2483.3 | 7629.7 | 16583.1 | 17376.1 | 16303.1 |
| 65° | 513.2 | 513.2 | 515.9 | 527.9 | 562.5 | 725.1 | 1567.5 | 6144.9 | 17949.3 | 20728.5 | 19371.6 |
| 67.5° | 478.6 | 479.9 | 478.6 | 482.6 | 502.6 | 535.9 | 909.1 | 4244.1 | 18685.0 | 24202.1 | 22737.2 |
| 70° | 442.5 | 445.2 | 438.5 | 438.5 | 454.5 | 455.8 | 569.2 | 2327.3 | 18074.6 | 27113.2 | 26728.0 |
| 72.5° | 399.9 | 403.8 | 393.2 | 390.5 | 402.5 | 397.2 | 427.8 | 1117.0 | 15518.0 | 27982.3 | 28995.3 |
| 75° | 362.5 | 367.9 | 343.9 | 337.2 | 337.2 | 333.2 | 347.9 | 573.2 | 10071.6 | 22826.5 | 24415.4 |
| 77.5° | 329.2 | 339.9 | 301.2 | 279.9 | 274.6 | 262.6 | 283.9 | 350.5 | 4405.3 | 10716.8 | 10494.2 |
| 80° | 271.9 | 286.6 | 247.9 | 222.6 | 213.3 | 200.0 | 224.0 | 245.3 | 1310.3 | 2488.6 | 2383.3 |
| 82.5° | 202.6 | 209.3 | 176.0 | 158.7 | 150.6 | 141.2 | 168.0 | 170.7 | 426.5 | 881.1 | 995.7 |
| 85° | 129.3 | 131.9 | 107.9 | 93.3 | 89.3 | 85.3 | 106.6 | 93.3 | 162.7 | 647.8 | 941.1 |
| 87.5° | 45.3 | 52.0 | 41.3 | 37.3 | 40.0 | 33.3 | 49.3 | 28.0 | 45.3 | 457.2 | 566.5 |
| 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)