

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: P969867

Luminaire Tested: **NVN-SB6A-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969867
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-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 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

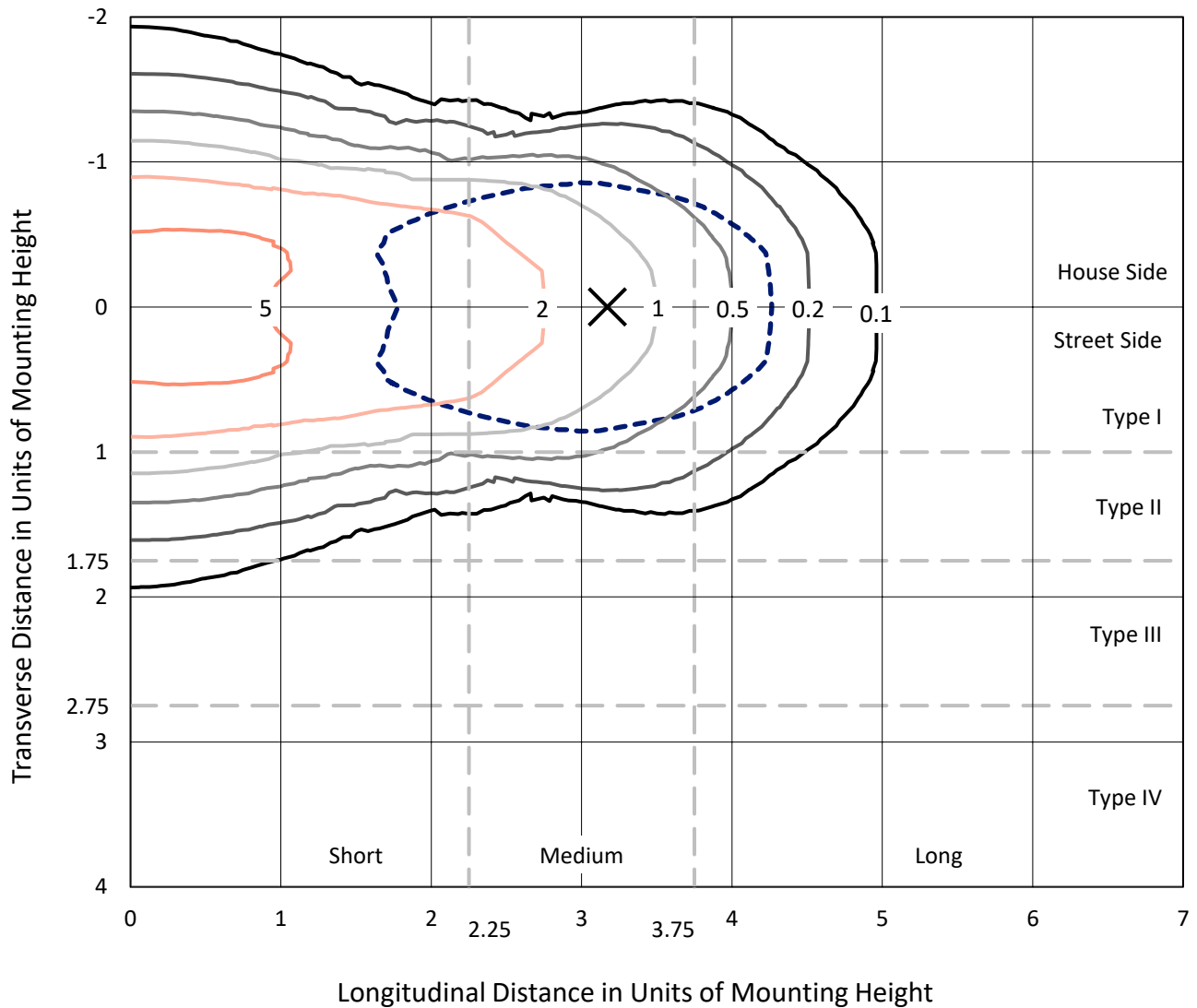
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

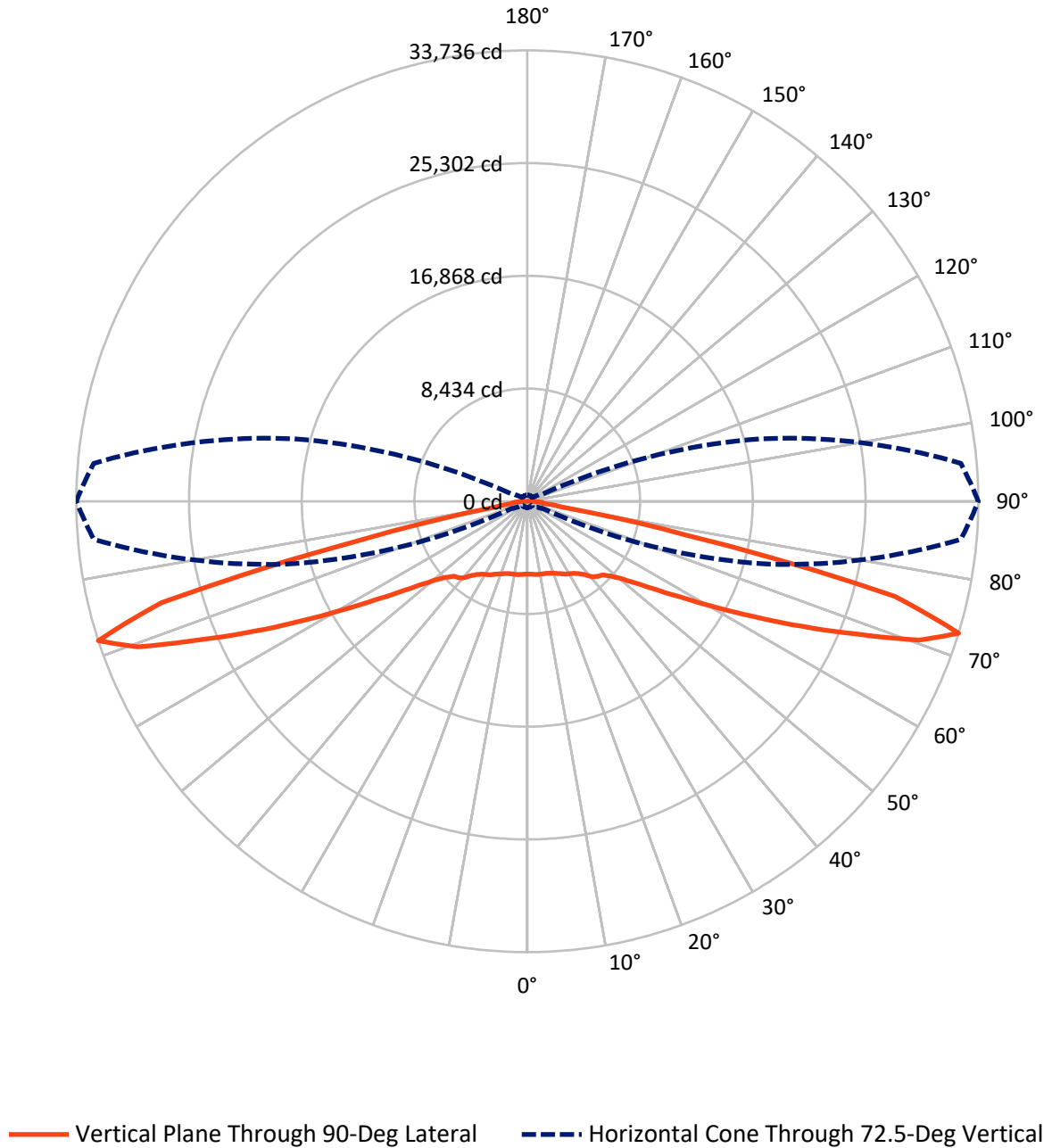
× Max cd
 - - - 1/2 Max cd



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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14590.9 | 0.0 | 14590.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14590.9 | 0.0 | 14590.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29181.8 | 0.0 | 29181.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

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 |

Coefficient of Utilization



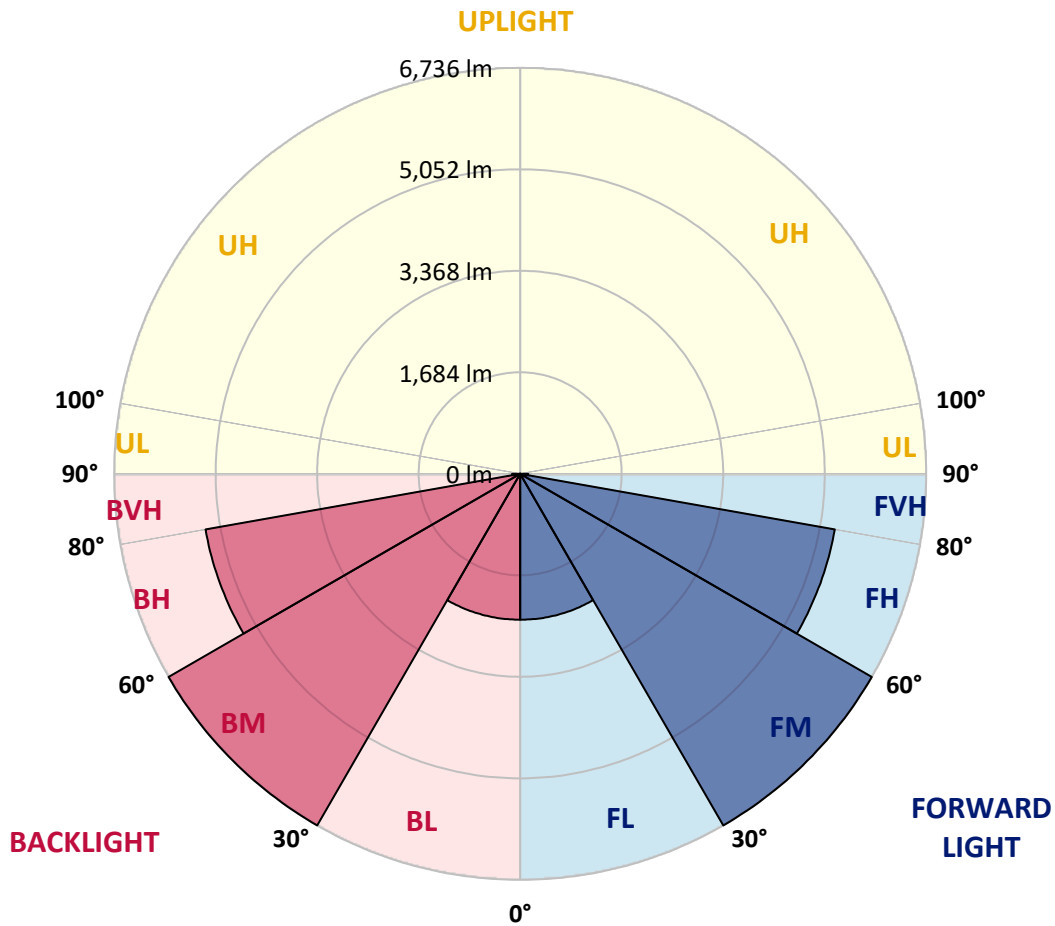
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 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)