

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: P964690

Luminaire Tested: **NVN-SB3C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964690
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-SB3C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19812.2 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

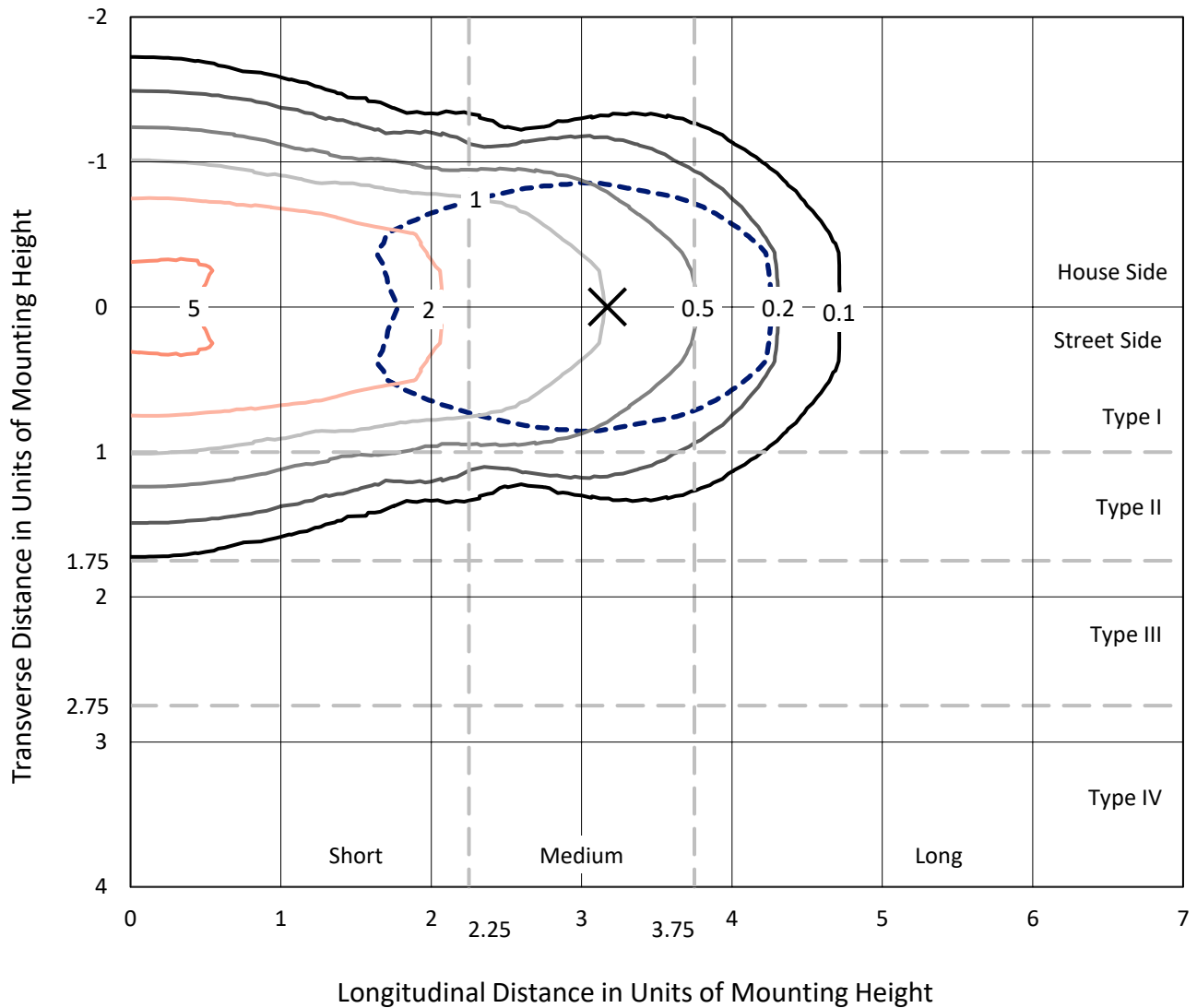
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

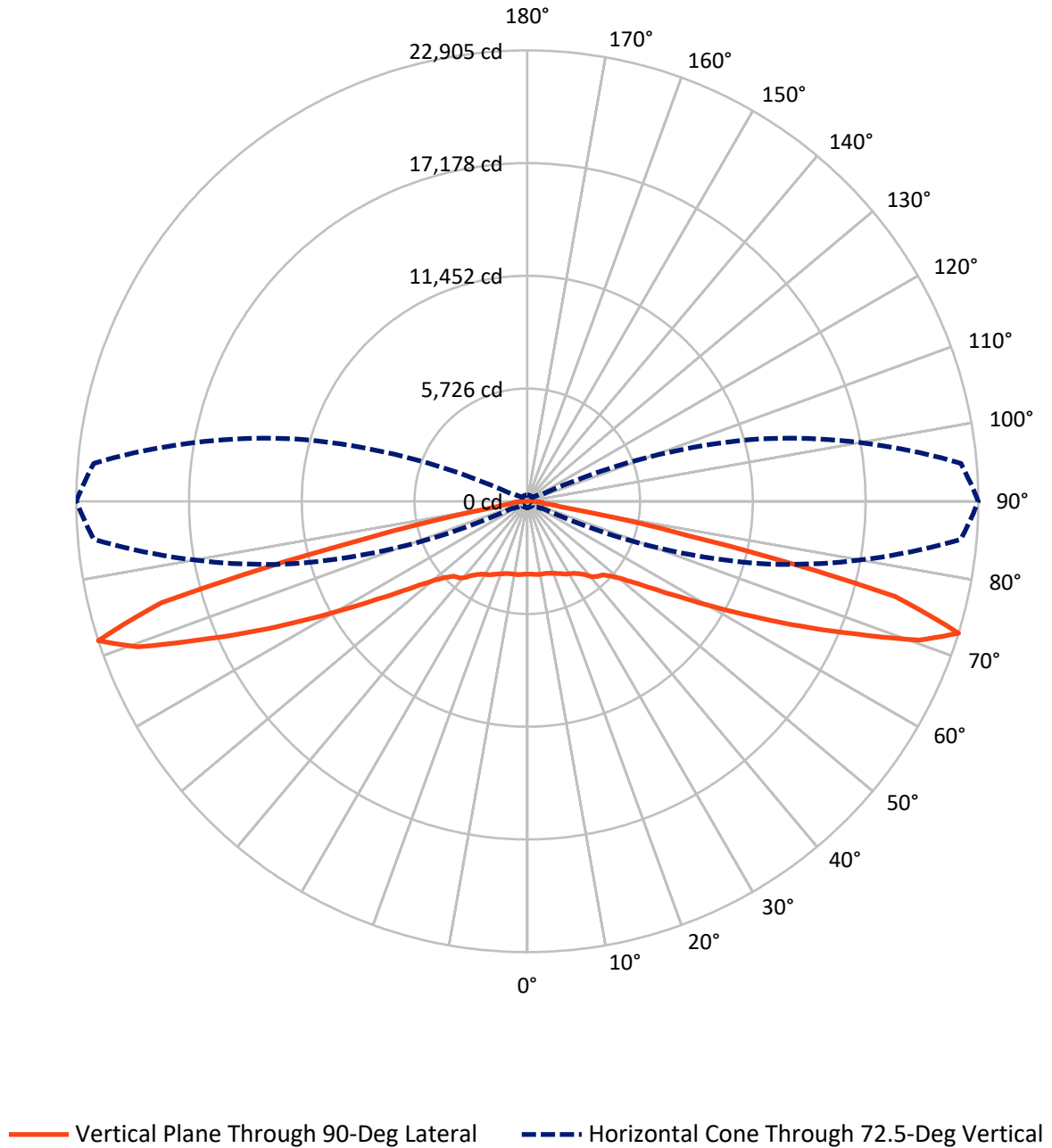
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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 | 9906.1 | 0.0 | 9906.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9906.1 | 0.0 | 9906.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19812.2 | 0.0 | 19812.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 359.0 | 1.8 |
| 10°-20° | 1097.6 | 5.5 |
| 20°-30° | 1830.1 | 9.2 |
| 30°-40° | 2517.0 | 12.7 |
| 40°-50° | 3073.9 | 15.5 |
| 50°-60° | 3555.3 | 17.9 |
| 60°-70° | 4239.1 | 21.4 |
| 70°-80° | 2958.6 | 14.9 |
| 80°-90° | 181.7 | 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° | 19812.2 | 100.0 |
| 0°-180° | 19812.2 | 100.0 |

Coefficient of Utilization



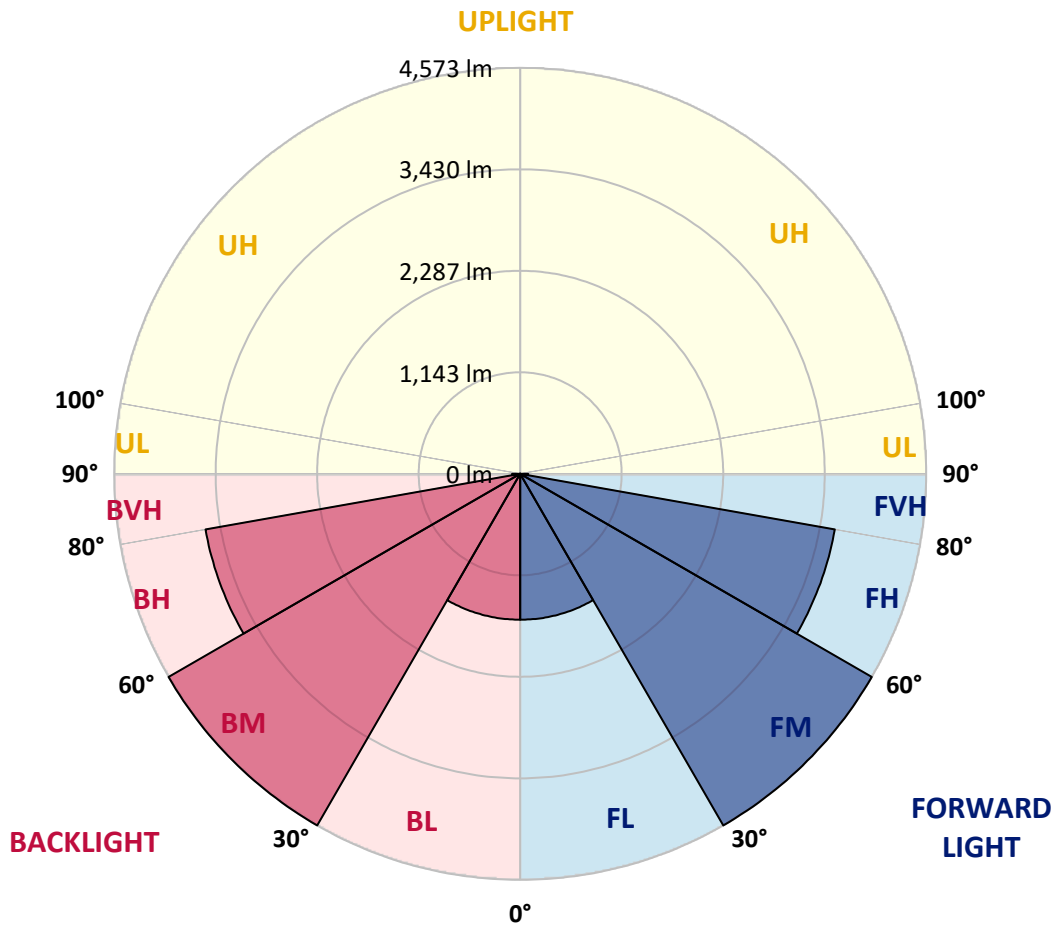
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1643.3 | 8.3 | | | |
| FM (30°-60°) | 4573.1 | 23.1 | | | |
| FH (60°-80°) | 3598.9 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 90.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1643.3 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 4573.1 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3598.9 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 90.9 | 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° | 3702.1 | 3702.1 | 3702.1 | 3702.1 | 3702.1 | 3702.1 | 3702.1 | 3702.1 | 3702.1 | 3702.1 | 3702.1 |
| 2.5° | 3705.3 | 3709.5 | 3709.5 | 3706.3 | 3713.7 | 3707.4 | 3707.4 | 3704.2 | 3707.4 | 3704.2 | 3704.2 |
| 5° | 3724.2 | 3729.5 | 3731.6 | 3730.6 | 3740.0 | 3734.8 | 3734.8 | 3730.6 | 3731.6 | 3728.4 | 3728.4 |
| 7.5° | 3760.0 | 3767.4 | 3771.6 | 3776.9 | 3790.6 | 3784.3 | 3780.0 | 3767.4 | 3762.2 | 3753.8 | 3753.8 |
| 10° | 3771.6 | 3780.0 | 3793.7 | 3821.1 | 3852.7 | 3853.8 | 3841.1 | 3809.5 | 3785.3 | 3766.4 | 3763.2 |
| 12.5° | 3735.8 | 3747.4 | 3775.8 | 3831.7 | 3902.2 | 3930.6 | 3910.6 | 3858.0 | 3810.5 | 3776.9 | 3771.6 |
| 15° | 3690.5 | 3703.2 | 3746.4 | 3830.6 | 3934.9 | 4001.2 | 3999.0 | 3929.5 | 3853.8 | 3801.1 | 3792.7 |
| 17.5° | 3620.0 | 3632.6 | 3694.7 | 3812.7 | 3960.1 | 4069.6 | 4099.1 | 4027.4 | 3921.1 | 3850.6 | 3839.0 |
| 20° | 3492.6 | 3504.2 | 3590.5 | 3755.8 | 3968.5 | 4142.2 | 4219.1 | 4156.0 | 4023.2 | 3927.5 | 3909.6 |
| 22.5° | 3327.3 | 3345.2 | 3446.3 | 3657.9 | 3948.5 | 4218.1 | 4356.0 | 4312.8 | 4142.2 | 4009.6 | 3985.4 |
| 25° | 3150.3 | 3169.3 | 3287.3 | 3537.9 | 3896.9 | 4272.8 | 4518.2 | 4490.7 | 4277.0 | 4111.7 | 4078.1 |
| 27.5° | 2997.7 | 3017.7 | 3146.1 | 3418.9 | 3816.9 | 4293.8 | 4678.2 | 4691.8 | 4440.2 | 4224.3 | 4188.6 |
| 30° | 2877.7 | 2896.6 | 3033.5 | 3323.0 | 3713.7 | 4272.8 | 4818.2 | 4913.0 | 4606.6 | 4322.3 | 4270.7 |
| 32.5° | 2746.1 | 2770.3 | 2914.5 | 3206.2 | 3591.6 | 4222.3 | 4940.4 | 5152.1 | 4799.3 | 4427.6 | 4362.3 |
| 35° | 2579.7 | 2601.8 | 2753.5 | 3046.1 | 3431.5 | 4141.2 | 5042.5 | 5417.3 | 5075.2 | 4587.6 | 4515.0 |
| 37.5° | 2377.5 | 2398.6 | 2549.2 | 2846.1 | 3272.5 | 4027.4 | 5120.4 | 5716.4 | 5403.7 | 4818.2 | 4721.4 |
| 40° | 2174.3 | 2194.3 | 2335.5 | 2622.9 | 3082.0 | 3882.2 | 5147.8 | 6009.1 | 5780.6 | 5135.1 | 5032.0 |
| 42.5° | 1988.0 | 2005.8 | 2135.4 | 2402.8 | 2868.2 | 3696.9 | 5112.0 | 6263.9 | 6118.6 | 5356.2 | 5223.6 |
| 45° | 1816.3 | 1832.1 | 1946.9 | 2196.5 | 2646.0 | 3471.6 | 5004.6 | 6537.7 | 6520.8 | 5514.2 | 5335.2 |
| 47.5° | 1620.4 | 1636.3 | 1755.2 | 1996.4 | 2423.8 | 3207.2 | 4822.4 | 6807.2 | 7080.0 | 5872.2 | 5665.9 |
| 50° | 1381.5 | 1395.1 | 1517.3 | 1765.8 | 2193.3 | 2926.1 | 4569.8 | 7018.9 | 7785.4 | 6414.4 | 6155.4 |
| 52.5° | 1098.2 | 1112.9 | 1231.9 | 1480.4 | 1919.5 | 2623.9 | 4237.0 | 7156.9 | 8600.4 | 7206.3 | 6887.3 |
| 55° | 817.0 | 827.6 | 930.8 | 1154.0 | 1580.4 | 2279.6 | 3820.1 | 7195.8 | 9524.8 | 8288.7 | 7889.6 |
| 57.5° | 592.8 | 599.1 | 665.4 | 831.8 | 1198.2 | 1849.0 | 3313.6 | 7094.6 | 10625.2 | 9676.5 | 9174.3 |
| 60° | 480.1 | 482.3 | 502.2 | 575.9 | 832.9 | 1362.5 | 2701.8 | 6747.2 | 11819.2 | 11465.4 | 10832.6 |
| 62.5° | 435.9 | 435.9 | 441.2 | 461.1 | 563.3 | 899.2 | 1961.6 | 6027.0 | 13099.6 | 13726.1 | 12878.5 |
| 65° | 405.4 | 405.4 | 407.4 | 417.0 | 444.3 | 572.8 | 1238.3 | 4854.0 | 14178.8 | 16374.2 | 15302.3 |
| 67.5° | 378.0 | 379.0 | 378.0 | 381.2 | 397.0 | 423.3 | 718.1 | 3352.6 | 14760.1 | 19118.2 | 17961.0 |
| 70° | 349.5 | 351.7 | 346.4 | 346.4 | 359.1 | 360.1 | 449.6 | 1838.4 | 14277.8 | 21417.8 | 21113.5 |
| 72.5° | 315.9 | 319.1 | 310.6 | 308.5 | 318.0 | 313.8 | 337.9 | 882.3 | 12258.3 | 22104.3 | 22904.5 |
| 75° | 286.4 | 290.6 | 271.6 | 266.4 | 266.4 | 263.2 | 274.8 | 452.7 | 7955.9 | 18031.5 | 19286.6 |
| 77.5° | 260.0 | 268.4 | 238.0 | 221.1 | 216.9 | 207.5 | 224.3 | 277.0 | 3480.0 | 8465.6 | 8289.8 |
| 80° | 214.8 | 226.4 | 195.9 | 175.9 | 168.5 | 158.0 | 176.9 | 193.7 | 1035.0 | 1965.8 | 1882.6 |
| 82.5° | 160.0 | 165.3 | 139.0 | 125.3 | 119.0 | 111.6 | 132.6 | 134.8 | 336.9 | 696.0 | 786.6 |
| 85° | 102.1 | 104.2 | 85.3 | 73.7 | 70.5 | 67.3 | 84.3 | 73.7 | 128.4 | 511.7 | 743.3 |
| 87.5° | 35.8 | 41.1 | 32.6 | 29.5 | 31.6 | 26.3 | 38.9 | 22.1 | 35.8 | 361.1 | 447.5 |
| 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)