

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: P883085

Luminaire Tested: **NVN-SB3B-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883085
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-SB3B-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 16709 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

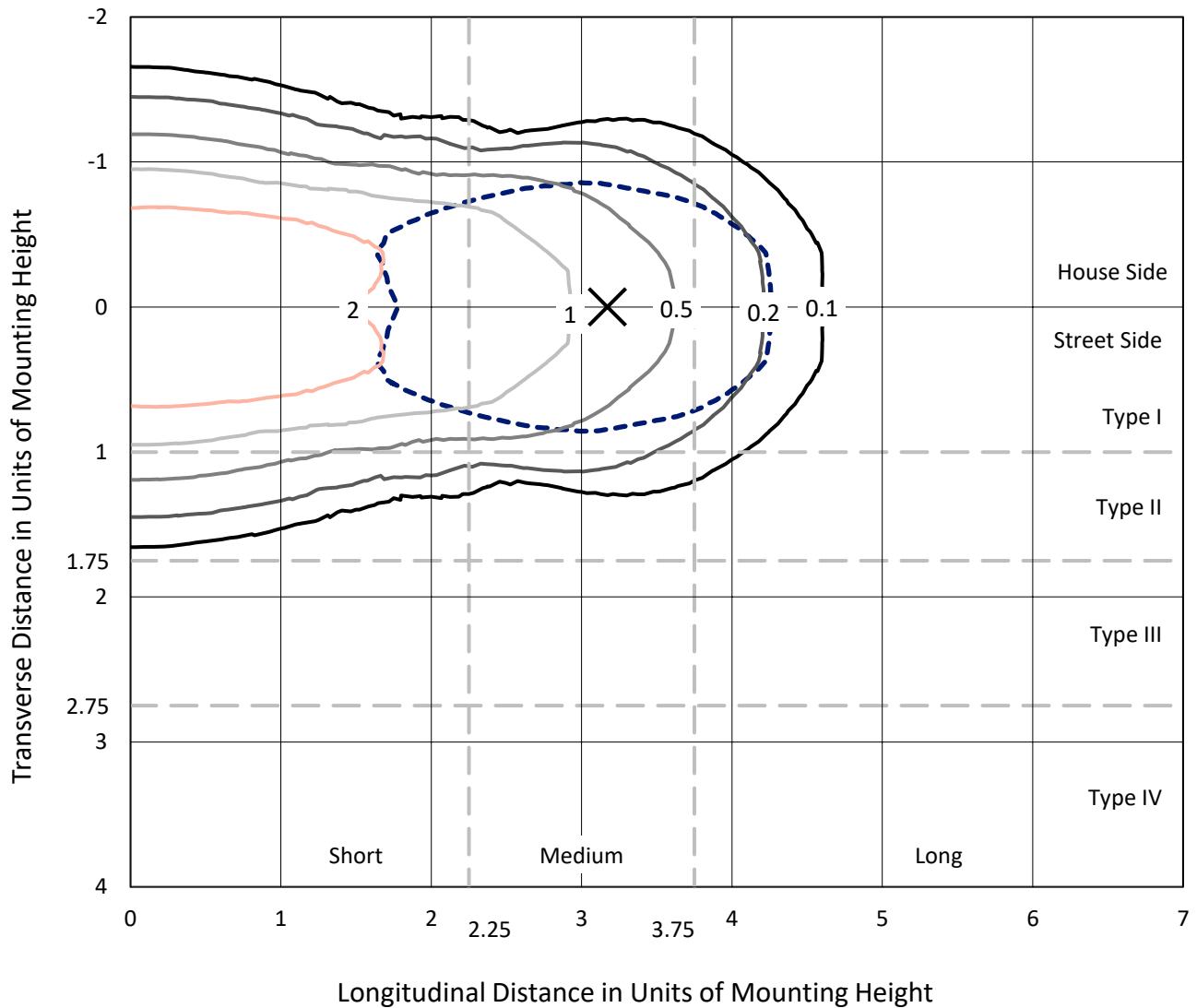
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

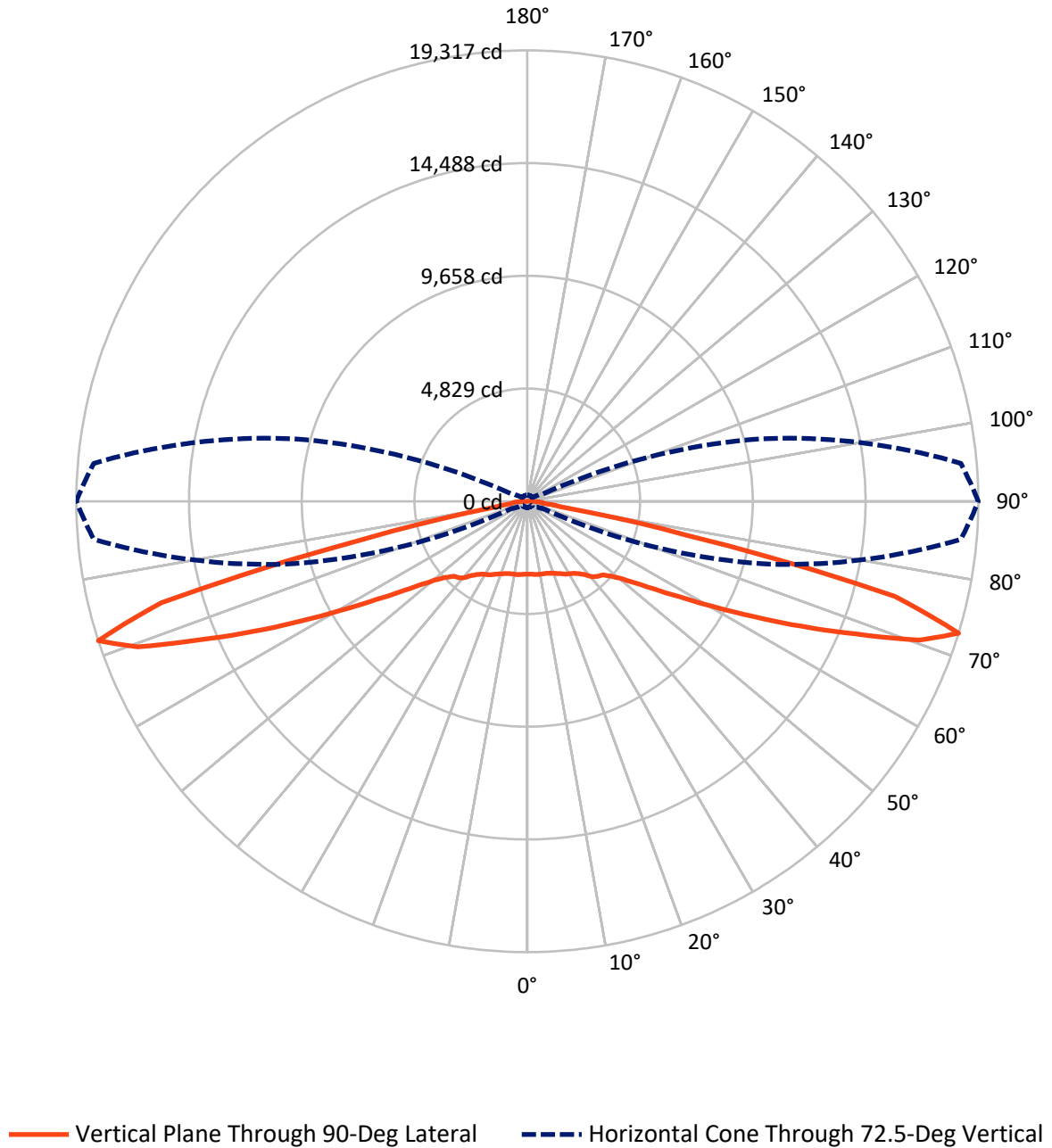
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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 | 8354.5 | 0.0 | 8354.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8354.5 | 0.0 | 8354.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16709.0 | 0.0 | 16709.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 302.7 | 1.8 |
| 10°-20° | 925.7 | 5.5 |
| 20°-30° | 1543.5 | 9.2 |
| 30°-40° | 2122.7 | 12.7 |
| 40°-50° | 2592.4 | 15.5 |
| 50°-60° | 2998.4 | 17.9 |
| 60°-70° | 3575.1 | 21.4 |
| 70°-80° | 2495.2 | 14.9 |
| 80°-90° | 153.3 | 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° | 16709.0 | 100.0 |
| 0°-180° | 16709.0 | 100.0 |

Coefficient of Utilization



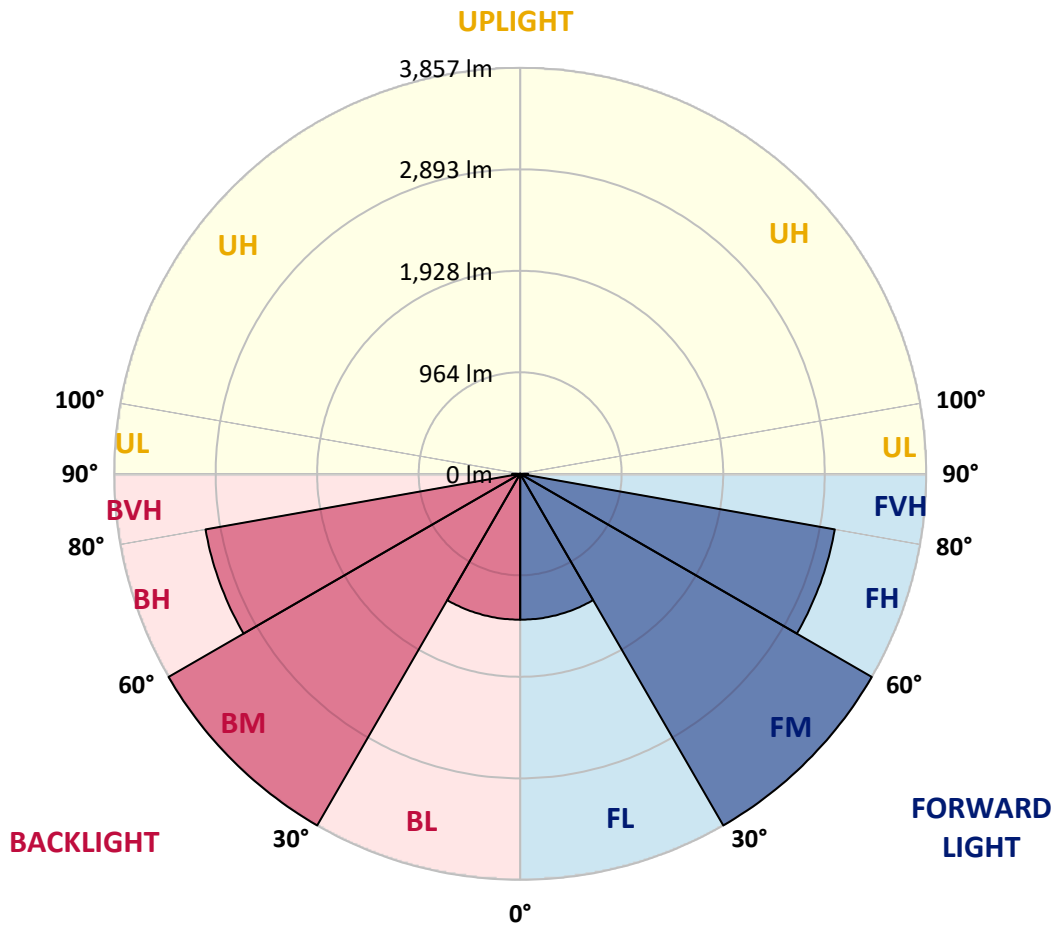
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1385.9 | 8.3 | | | |
| FM (30°-60°) | 3856.8 | 23.1 | | | |
| FH (60°-80°) | 3035.2 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 76.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1385.9 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 3856.8 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3035.2 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 76.6 | 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° | 3122.3 | 3122.3 | 3122.3 | 3122.3 | 3122.3 | 3122.3 | 3122.3 | 3122.3 | 3122.3 | 3122.3 | 3122.3 |
| 2.5° | 3124.9 | 3128.5 | 3128.5 | 3125.8 | 3132.0 | 3126.7 | 3126.7 | 3124.0 | 3126.7 | 3124.0 | 3124.0 |
| 5° | 3140.9 | 3145.3 | 3147.1 | 3146.2 | 3154.2 | 3149.8 | 3149.8 | 3146.2 | 3147.1 | 3144.5 | 3144.5 |
| 7.5° | 3171.1 | 3177.3 | 3180.9 | 3185.3 | 3196.8 | 3191.5 | 3188.0 | 3177.3 | 3172.9 | 3165.8 | 3165.8 |
| 10° | 3180.9 | 3188.0 | 3199.5 | 3222.6 | 3249.2 | 3250.1 | 3239.5 | 3212.8 | 3192.4 | 3176.4 | 3173.8 |
| 12.5° | 3150.7 | 3160.4 | 3184.4 | 3231.5 | 3291.0 | 3315.0 | 3298.1 | 3253.7 | 3213.7 | 3185.3 | 3180.9 |
| 15° | 3112.5 | 3123.1 | 3159.5 | 3230.6 | 3318.5 | 3374.4 | 3372.7 | 3314.1 | 3250.1 | 3205.7 | 3198.6 |
| 17.5° | 3053.0 | 3063.6 | 3116.0 | 3215.5 | 3339.8 | 3432.2 | 3457.0 | 3396.6 | 3307.0 | 3247.5 | 3237.7 |
| 20° | 2945.5 | 2955.3 | 3028.1 | 3167.5 | 3346.9 | 3493.4 | 3558.3 | 3505.0 | 3393.1 | 3312.3 | 3297.2 |
| 22.5° | 2806.1 | 2821.2 | 2906.5 | 3085.0 | 3330.0 | 3557.4 | 3673.7 | 3637.3 | 3493.4 | 3381.6 | 3361.1 |
| 25° | 2656.9 | 2672.9 | 2772.4 | 2983.7 | 3286.5 | 3603.6 | 3810.5 | 3787.4 | 3607.1 | 3467.7 | 3439.3 |
| 27.5° | 2528.2 | 2545.0 | 2653.4 | 2883.4 | 3219.0 | 3621.3 | 3945.4 | 3957.0 | 3744.8 | 3562.7 | 3532.5 |
| 30° | 2426.9 | 2442.9 | 2558.4 | 2802.6 | 3132.0 | 3603.6 | 4063.5 | 4143.5 | 3885.1 | 3645.3 | 3601.8 |
| 32.5° | 2315.9 | 2336.4 | 2458.0 | 2704.0 | 3029.0 | 3560.9 | 4166.6 | 4345.0 | 4047.6 | 3734.1 | 3679.0 |
| 35° | 2175.6 | 2194.3 | 2322.2 | 2569.0 | 2894.0 | 3492.6 | 4252.7 | 4568.8 | 4280.2 | 3869.1 | 3807.8 |
| 37.5° | 2005.1 | 2022.9 | 2149.9 | 2400.3 | 2759.9 | 3396.6 | 4318.4 | 4821.0 | 4557.3 | 4063.5 | 3981.8 |
| 40° | 1833.7 | 1850.6 | 1969.6 | 2212.0 | 2599.2 | 3274.1 | 4341.5 | 5067.9 | 4875.2 | 4330.8 | 4243.8 |
| 42.5° | 1676.6 | 1691.7 | 1800.9 | 2026.4 | 2418.9 | 3117.8 | 4311.3 | 5282.8 | 5160.2 | 4517.3 | 4405.4 |
| 45° | 1531.8 | 1545.1 | 1641.9 | 1852.4 | 2231.6 | 2927.8 | 4220.7 | 5513.7 | 5499.5 | 4650.5 | 4499.6 |
| 47.5° | 1366.7 | 1380.0 | 1480.3 | 1683.7 | 2044.2 | 2704.9 | 4067.1 | 5741.0 | 5971.0 | 4952.4 | 4778.4 |
| 50° | 1165.1 | 1176.6 | 1279.6 | 1489.2 | 1849.7 | 2467.8 | 3854.0 | 5919.5 | 6566.0 | 5409.8 | 5191.3 |
| 52.5° | 926.2 | 938.6 | 1039.0 | 1248.5 | 1618.8 | 2212.9 | 3573.4 | 6035.8 | 7253.3 | 6077.6 | 5808.5 |
| 55° | 689.1 | 698.0 | 785.0 | 973.3 | 1332.9 | 1922.5 | 3221.7 | 6068.7 | 8033.0 | 6990.4 | 6653.9 |
| 57.5° | 500.0 | 505.3 | 561.2 | 701.5 | 1010.6 | 1559.4 | 2794.6 | 5983.4 | 8960.9 | 8160.8 | 7737.3 |
| 60° | 404.9 | 406.7 | 423.6 | 485.7 | 702.4 | 1149.1 | 2278.6 | 5690.4 | 9967.9 | 9669.6 | 9135.9 |
| 62.5° | 367.6 | 367.6 | 372.1 | 388.9 | 475.1 | 758.4 | 1654.4 | 5083.0 | 11047.8 | 11576.1 | 10861.3 |
| 65° | 341.9 | 341.9 | 343.7 | 351.7 | 374.7 | 483.1 | 1044.3 | 4093.7 | 11958.0 | 13809.5 | 12905.5 |
| 67.5° | 318.8 | 319.7 | 318.8 | 321.5 | 334.8 | 357.0 | 605.6 | 2827.4 | 12448.2 | 16123.6 | 15147.7 |
| 70° | 294.8 | 296.6 | 292.2 | 292.2 | 302.8 | 303.7 | 379.2 | 1550.5 | 12041.5 | 18063.1 | 17806.4 |
| 72.5° | 266.4 | 269.1 | 262.0 | 260.2 | 268.2 | 264.6 | 285.1 | 744.2 | 10338.2 | 18642.1 | 19316.9 |
| 75° | 241.5 | 245.1 | 229.1 | 224.7 | 224.7 | 222.0 | 231.8 | 381.8 | 6709.8 | 15207.2 | 16265.7 |
| 77.5° | 219.3 | 226.4 | 200.7 | 186.5 | 182.9 | 174.9 | 189.1 | 233.5 | 2934.9 | 7139.6 | 6991.3 |
| 80° | 181.2 | 190.9 | 165.2 | 148.3 | 142.1 | 133.2 | 149.2 | 163.4 | 872.9 | 1657.9 | 1587.8 |
| 82.5° | 135.0 | 139.4 | 117.2 | 105.7 | 100.3 | 94.1 | 111.9 | 113.7 | 284.2 | 587.0 | 663.3 |
| 85° | 86.1 | 87.9 | 71.9 | 62.2 | 59.5 | 56.8 | 71.0 | 62.2 | 108.3 | 431.6 | 626.9 |
| 87.5° | 30.2 | 34.6 | 27.5 | 24.9 | 26.6 | 22.2 | 32.9 | 18.6 | 30.2 | 304.6 | 377.4 |
| 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)