

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: P970290

Luminaire Tested: **NVN-SB6B-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33430.4 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

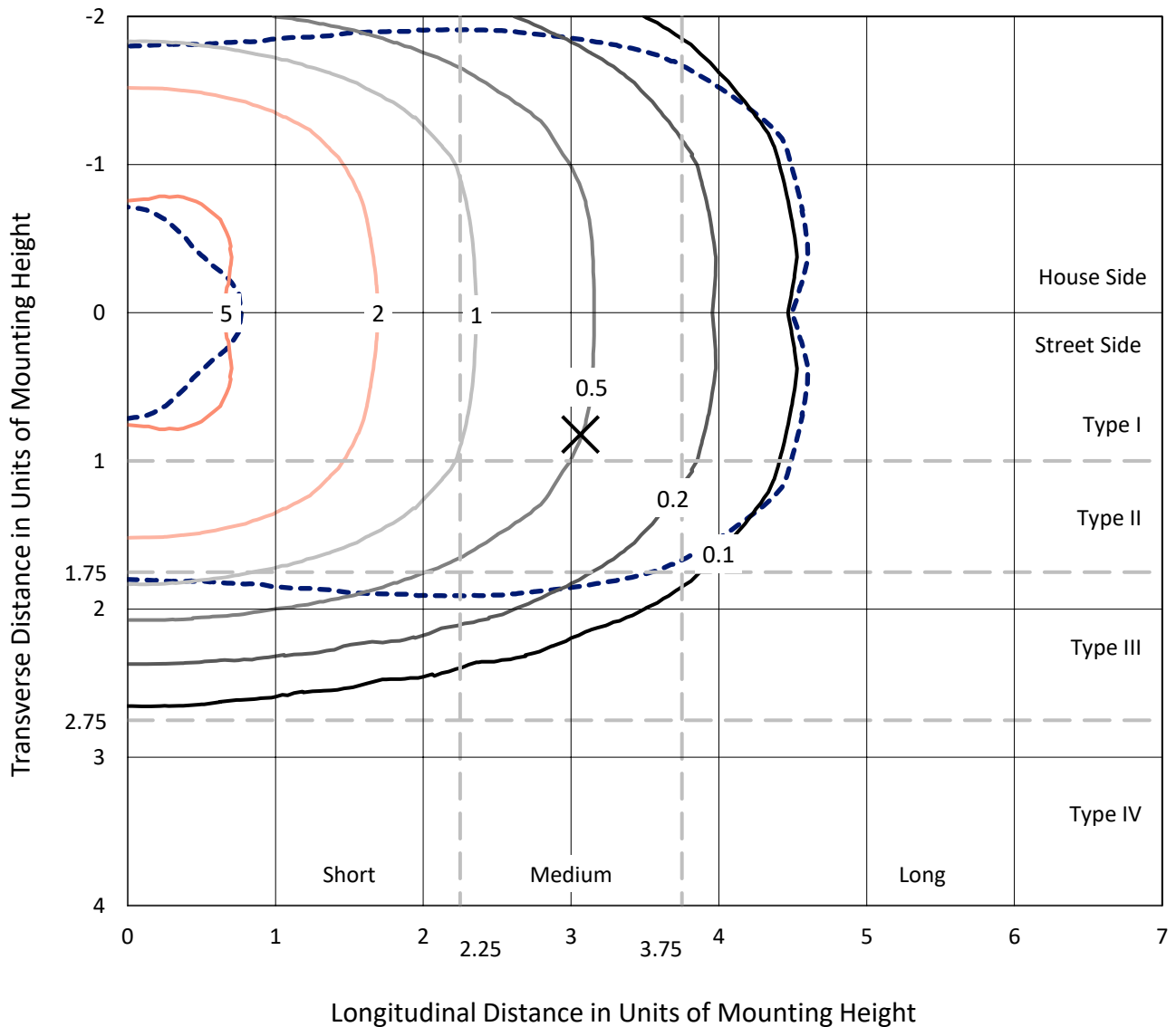
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970290
 CATALOG NUMBER: NVN-SB6B-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

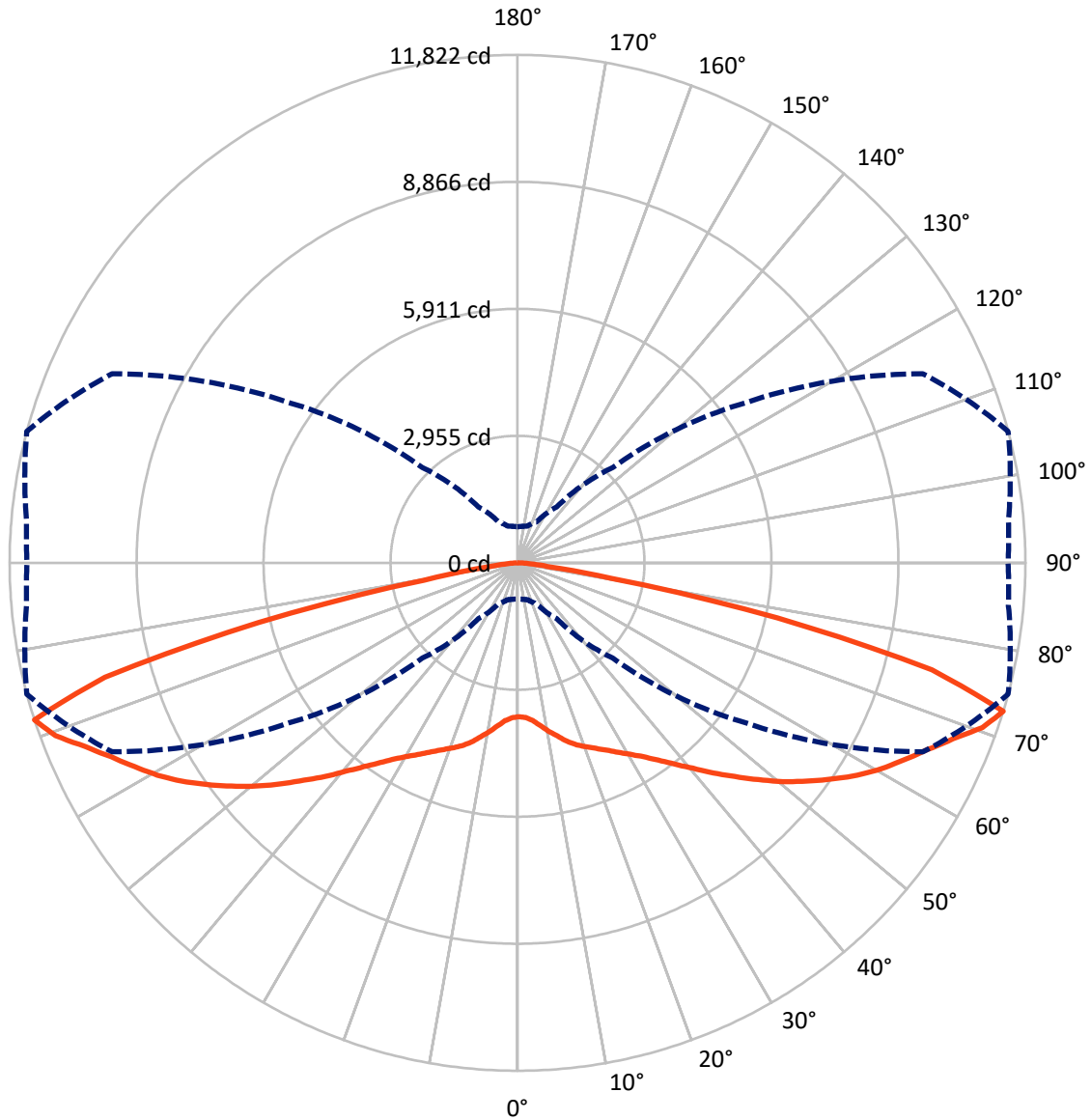
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P970290
CATALOG NUMBER: NVN-SB6B-727-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P970290
 CATALOG NUMBER: NVN-SB6B-727-U-RW

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16715.2 | 0.0 | 16715.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16715.2 | 0.0 | 16715.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33430.4 | 0.0 | 33430.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 350.8 | 1.0 |
| 10°-20° | 1157.0 | 3.5 |
| 20°-30° | 2235.6 | 6.7 |
| 30°-40° | 3775.0 | 11.3 |
| 40°-50° | 5986.7 | 17.9 |
| 50°-60° | 8015.4 | 24.0 |
| 60°-70° | 7628.1 | 22.8 |
| 70°-80° | 3980.5 | 11.9 |
| 80°-90° | 301.3 | 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° | 33430.4 | 100.0 |
| 0°-180° | 33430.4 | 100.0 |

Coefficient of Utilization

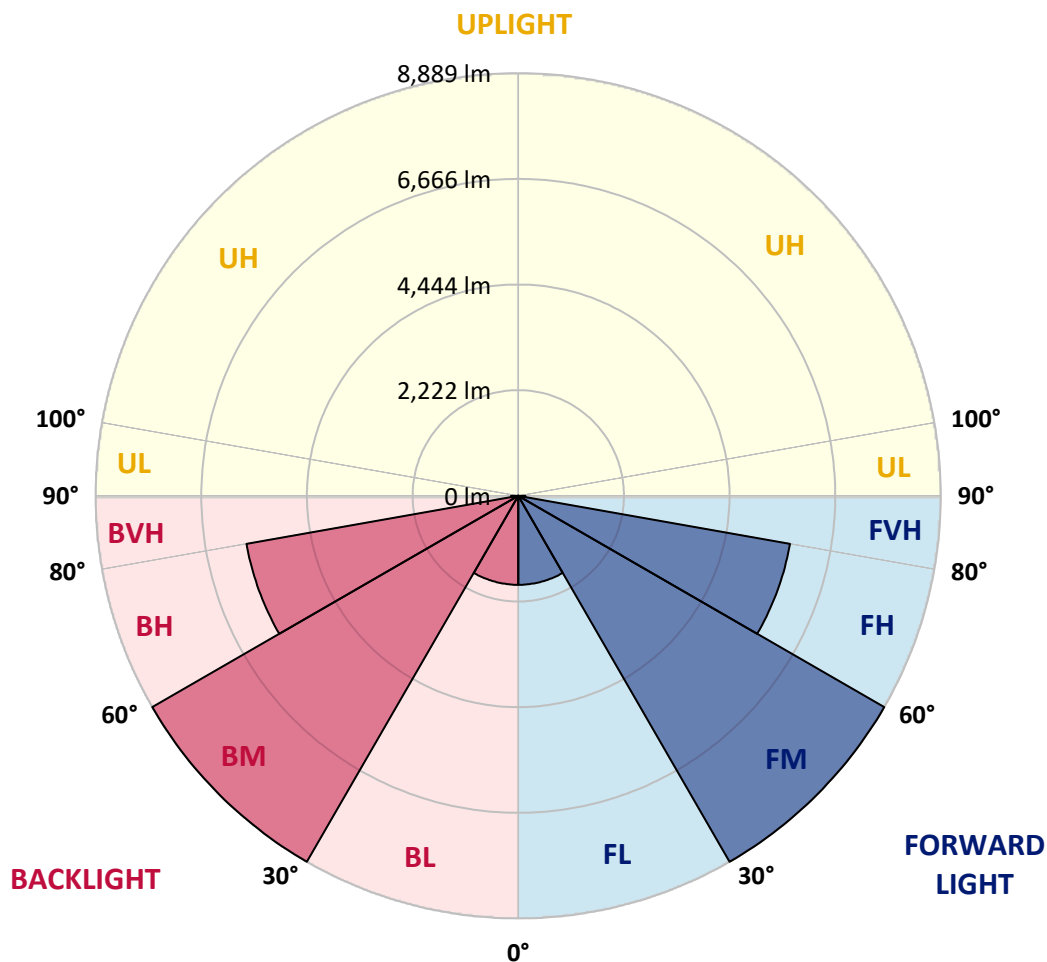


REPORT NUMBER: P970290
 CATALOG NUMBER: NVN-SB6B-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1871.7 | 5.6 | | | |
| FM (30°-60°) | 8888.5 | 26.6 | | | |
| FH (60°-80°) | 5804.3 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 150.6 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1871.7 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 8888.5 | 26.6 | B5 | | |
| BH (60°-80°) | 5804.3 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 150.6 | 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 III Medium



REPORT NUMBER: P970290
 CATALOG NUMBER: NVN-SB6B-727-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3581.0 | 3581.0 | 3581.0 | 3581.0 | 3581.0 | 3581.0 | 3581.0 | 3581.0 | 3581.0 | 3581.0 | 3581.0 |
| 2.5° | 3581.0 | 3577.6 | 3581.0 | 3584.4 | 3582.7 | 3582.7 | 3591.2 | 3596.3 | 3606.6 | 3604.9 | 3603.2 |
| 5° | 3557.1 | 3555.4 | 3569.0 | 3584.4 | 3596.3 | 3616.8 | 3642.4 | 3661.2 | 3685.1 | 3690.2 | 3690.2 |
| 7.5° | 3545.2 | 3540.0 | 3563.9 | 3591.2 | 3628.8 | 3680.0 | 3729.5 | 3780.7 | 3821.6 | 3835.3 | 3838.7 |
| 10° | 3553.7 | 3555.4 | 3587.8 | 3639.1 | 3698.8 | 3770.5 | 3840.5 | 3927.5 | 3985.5 | 3999.1 | 4012.9 |
| 12.5° | 3592.9 | 3589.6 | 3644.2 | 3726.1 | 3808.0 | 3898.5 | 3980.4 | 4076.0 | 4139.2 | 4171.5 | 4185.2 |
| 15° | 3664.6 | 3657.8 | 3734.6 | 3855.8 | 3975.3 | 4081.1 | 4147.7 | 4238.2 | 4311.6 | 4352.5 | 4367.8 |
| 17.5° | 3750.0 | 3753.3 | 3854.1 | 4011.1 | 4168.2 | 4287.7 | 4350.8 | 4396.8 | 4453.2 | 4489.1 | 4506.1 |
| 20° | 3900.1 | 3907.0 | 4019.6 | 4205.7 | 4385.0 | 4521.5 | 4572.6 | 4555.6 | 4571.0 | 4598.3 | 4618.8 |
| 22.5° | 4101.5 | 4105.0 | 4231.3 | 4432.7 | 4620.5 | 4770.7 | 4804.8 | 4734.8 | 4692.1 | 4710.9 | 4724.6 |
| 25° | 4335.4 | 4357.6 | 4484.0 | 4690.4 | 4883.3 | 5026.7 | 5042.1 | 4936.2 | 4830.4 | 4835.5 | 4844.0 |
| 27.5° | 4620.5 | 4641.0 | 4768.9 | 4973.8 | 5170.1 | 5294.6 | 5293.0 | 5151.3 | 4996.0 | 4956.7 | 4968.7 |
| 30° | 4929.4 | 4951.6 | 5083.1 | 5294.6 | 5477.3 | 5586.6 | 5562.7 | 5393.7 | 5171.7 | 5098.3 | 5107.0 |
| 32.5° | 5296.4 | 5310.0 | 5443.2 | 5654.8 | 5823.8 | 5910.9 | 5861.4 | 5653.1 | 5376.6 | 5293.0 | 5313.5 |
| 35° | 5740.2 | 5760.6 | 5859.6 | 6059.4 | 6207.8 | 6279.6 | 6195.9 | 5950.1 | 5639.4 | 5545.6 | 5559.3 |
| 37.5° | 6247.1 | 6233.4 | 6346.1 | 6523.6 | 6646.5 | 6690.9 | 6576.5 | 6284.7 | 5939.9 | 5829.0 | 5849.4 |
| 40° | 6776.3 | 6769.4 | 6892.3 | 7063.0 | 7129.6 | 7156.9 | 6987.8 | 6668.6 | 6286.3 | 6166.9 | 6206.2 |
| 42.5° | 7255.9 | 7250.7 | 7416.3 | 7605.8 | 7686.0 | 7655.3 | 7441.9 | 7076.6 | 6687.5 | 6550.9 | 6585.1 |
| 45° | 7639.9 | 7633.1 | 7836.2 | 8102.4 | 8259.4 | 8208.3 | 7921.5 | 7527.3 | 7093.7 | 6952.1 | 6984.5 |
| 47.5° | 7935.1 | 7938.6 | 8157.1 | 8486.5 | 8761.3 | 8780.0 | 8411.4 | 7986.4 | 7540.9 | 7380.5 | 7428.3 |
| 50° | 8148.5 | 8158.8 | 8392.6 | 8757.9 | 9133.4 | 9299.0 | 8911.6 | 8457.5 | 8003.5 | 7822.5 | 7877.1 |
| 52.5° | 8201.4 | 8220.2 | 8501.9 | 8930.3 | 9372.4 | 9688.1 | 9420.2 | 8909.8 | 8442.1 | 8269.7 | 8314.1 |
| 55° | 7919.9 | 7957.4 | 8314.1 | 8916.7 | 9519.2 | 9944.1 | 9867.4 | 9368.9 | 8884.2 | 8706.7 | 8756.2 |
| 57.5° | 7272.9 | 7325.9 | 7742.3 | 8529.1 | 9486.7 | 10119.9 | 10213.8 | 9809.4 | 9326.3 | 9155.6 | 9194.9 |
| 60° | 6366.6 | 6429.7 | 6829.2 | 7687.7 | 9029.3 | 10184.8 | 10458.0 | 10237.7 | 9732.5 | 9566.9 | 9602.8 |
| 62.5° | 4999.4 | 5081.3 | 5559.3 | 6566.3 | 8063.2 | 9882.7 | 10666.2 | 10625.3 | 10097.8 | 9891.2 | 9915.1 |
| 65° | 3207.2 | 3294.2 | 3797.7 | 4987.4 | 6774.5 | 8957.6 | 10731.0 | 11002.5 | 10483.5 | 10195.1 | 10230.9 |
| 67.5° | 1933.9 | 1973.1 | 2222.3 | 3022.8 | 4951.6 | 7563.1 | 10181.4 | 11420.6 | 10934.2 | 10575.7 | 10603.0 |
| 70° | 1237.5 | 1259.6 | 1408.1 | 1775.1 | 2799.3 | 5518.3 | 8819.3 | 11499.1 | 11480.3 | 10966.6 | 10963.2 |
| 72.5° | 839.8 | 846.6 | 885.9 | 1051.4 | 1583.9 | 3135.5 | 6504.9 | 10410.1 | 11821.7 | 11470.1 | 11415.5 |
| 75° | 614.5 | 652.0 | 715.1 | 744.2 | 899.5 | 1566.9 | 3727.8 | 7313.9 | 9962.9 | 10116.5 | 9744.5 |
| 77.5° | 457.5 | 459.1 | 546.2 | 580.4 | 641.8 | 834.7 | 1577.2 | 4082.8 | 6185.7 | 6494.6 | 5793.1 |
| 80° | 387.4 | 367.0 | 365.3 | 467.7 | 483.1 | 520.6 | 704.9 | 1409.9 | 2215.5 | 1343.3 | 1015.6 |
| 82.5° | 322.6 | 300.4 | 271.4 | 365.3 | 329.4 | 319.2 | 305.6 | 573.5 | 704.9 | 346.4 | 295.3 |
| 85° | 225.3 | 215.0 | 204.8 | 238.9 | 187.8 | 160.4 | 146.8 | 267.9 | 296.9 | 146.8 | 129.8 |
| 87.5° | 97.3 | 100.7 | 102.4 | 105.8 | 78.5 | 56.4 | 56.4 | 75.1 | 75.1 | 58.0 | 42.6 |
| 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)