

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: P533944

Luminaire Tested: **GLAN-SA9B-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36922 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

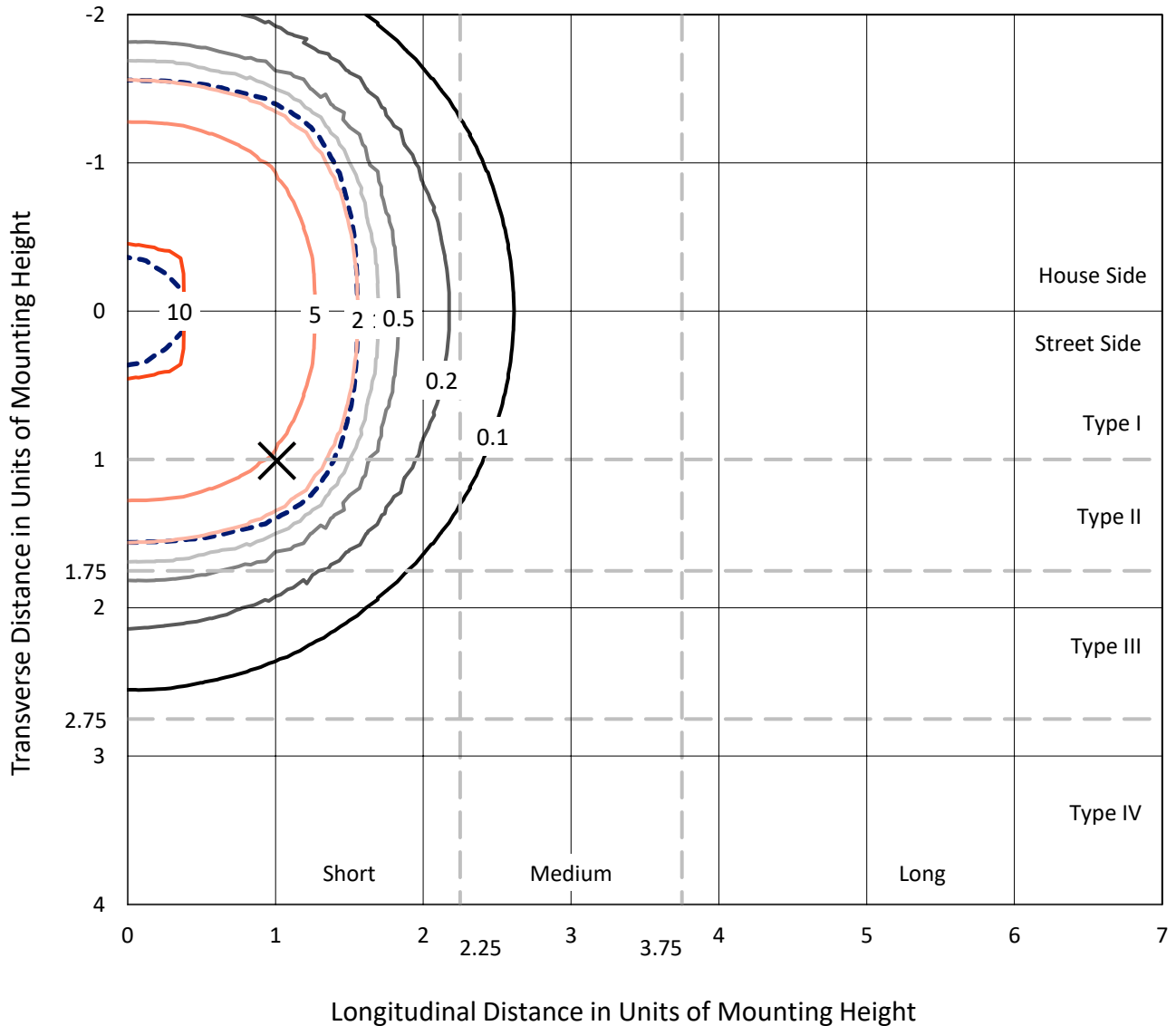
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

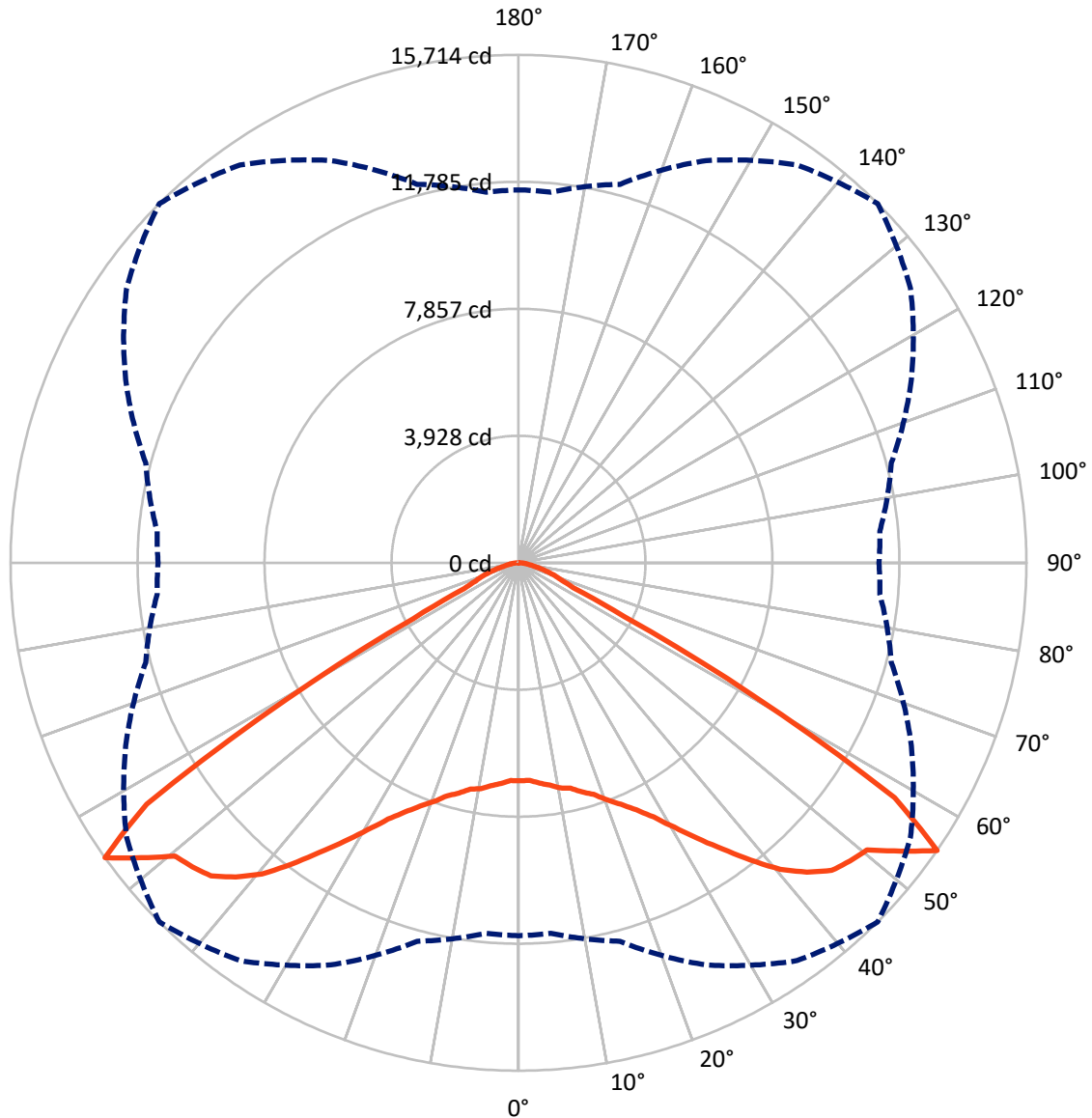
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18461.0 | 0.0 | 18461.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18461.0 | 0.0 | 18461.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 36922.0 | 0.0 | 36922.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 658.6 | 1.8 |
| 10°-20° | 2086.7 | 5.7 |
| 20°-30° | 3891.0 | 10.5 |
| 30°-40° | 6514.8 | 17.6 |
| 40°-50° | 10137.6 | 27.5 |
| 50°-60° | 10526.0 | 28.5 |
| 60°-70° | 2232.2 | 6.0 |
| 70°-80° | 735.1 | 2.0 |
| 80°-90° | 140.0 | 0.4 |
| 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° | 36922.0 | 100.0 |
| 0°-180° | 36922.0 | 100.0 |

Coefficient of Utilization

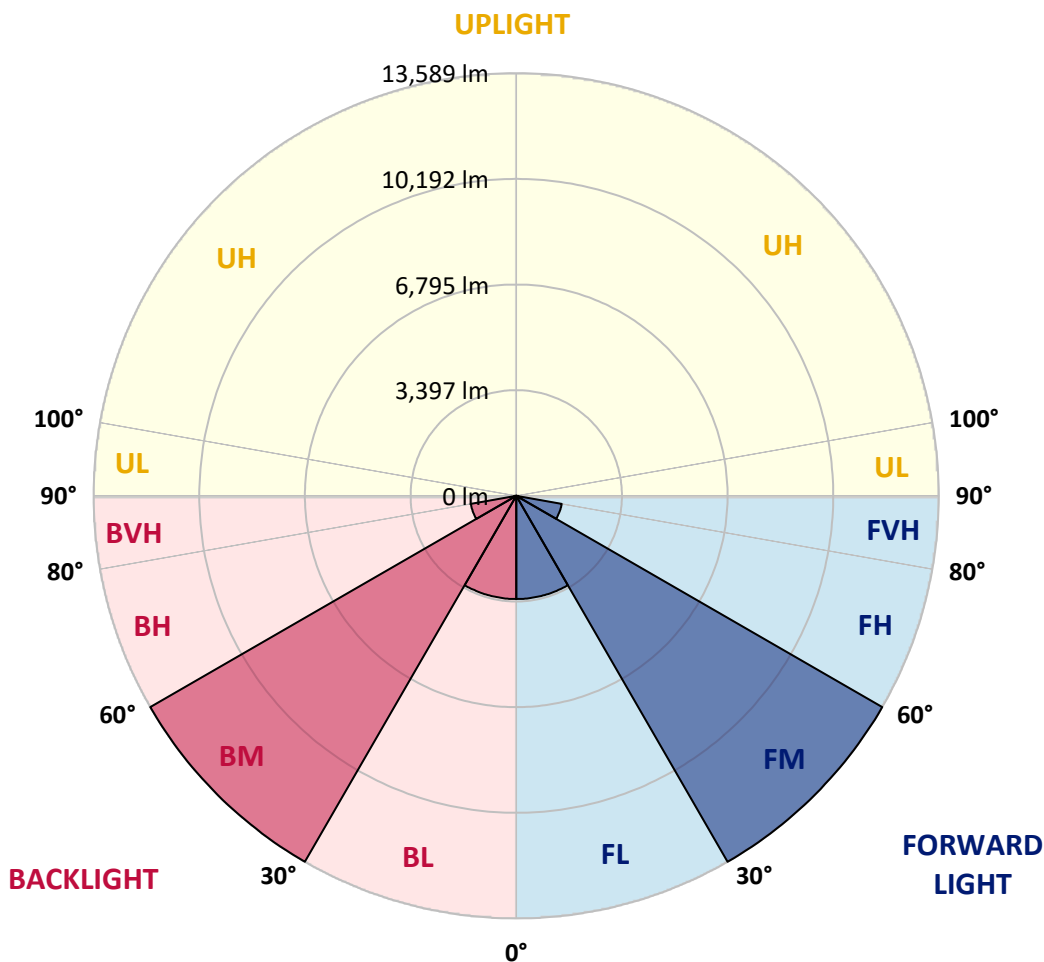


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3318.1 | 9.0 | | | |
| FM (30°-60°) | 13589.2 | 36.8 | | | |
| FH (60°-80°) | 1483.7 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 70.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3318.1 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 13589.2 | 36.8 | B5 | | |
| BH (60°-80°) | 1483.7 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 70.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6741.4 | 6741.4 | 6741.4 | 6741.4 | 6741.4 | 6741.4 | 6741.4 | 6741.4 | 6741.4 | 6741.4 | 6741.4 |
| 2.5° | 6821.7 | 6790.5 | 6736.9 | 6777.1 | 6808.3 | 6741.4 | 6768.2 | 6781.6 | 6772.6 | 6736.9 | 6750.3 |
| 5° | 6919.9 | 6902.0 | 6857.4 | 6888.6 | 6848.5 | 6848.5 | 6821.7 | 6786.0 | 6839.6 | 6830.6 | 6852.9 |
| 7.5° | 6919.9 | 6897.6 | 6986.8 | 6928.8 | 6946.6 | 6946.6 | 6902.0 | 6866.3 | 6893.1 | 6852.9 | 6830.6 |
| 10° | 7058.2 | 7089.4 | 7049.3 | 7062.6 | 7053.7 | 7084.9 | 7018.0 | 6995.7 | 6973.4 | 6960.0 | 6933.3 |
| 12.5° | 7223.3 | 7200.9 | 7214.3 | 7205.4 | 7236.6 | 7156.3 | 7116.2 | 7067.1 | 7107.3 | 7049.3 | 7089.4 |
| 15° | 7357.1 | 7343.7 | 7357.1 | 7392.8 | 7361.6 | 7357.1 | 7285.7 | 7236.6 | 7174.2 | 7187.6 | 7125.1 |
| 17.5° | 7540.0 | 7526.6 | 7531.1 | 7562.3 | 7557.9 | 7535.6 | 7482.0 | 7388.3 | 7366.0 | 7330.3 | 7290.2 |
| 20° | 7812.2 | 7789.9 | 7780.9 | 7794.3 | 7816.6 | 7834.5 | 7727.4 | 7691.7 | 7615.9 | 7557.9 | 7490.9 |
| 22.5° | 8044.2 | 8035.3 | 8070.9 | 8012.9 | 8062.0 | 8115.6 | 8012.9 | 7995.1 | 7807.7 | 7776.5 | 7705.1 |
| 25° | 8365.4 | 8352.0 | 8329.7 | 8414.5 | 8472.5 | 8468.0 | 8369.9 | 8271.7 | 8128.9 | 8093.3 | 8093.3 |
| 27.5° | 8704.5 | 8628.6 | 8744.6 | 8767.0 | 8869.6 | 8900.8 | 8816.0 | 8673.3 | 8539.4 | 8463.6 | 8481.4 |
| 30° | 9128.3 | 9057.0 | 9083.7 | 9244.3 | 9378.2 | 9494.2 | 9280.0 | 9070.3 | 8883.0 | 8749.1 | 8726.8 |
| 32.5° | 9552.2 | 9480.8 | 9561.1 | 9717.3 | 9985.0 | 10159.0 | 9949.3 | 9583.4 | 9364.8 | 9168.5 | 9208.6 |
| 35° | 9895.7 | 9949.3 | 10078.6 | 10315.1 | 10591.7 | 10872.8 | 10538.2 | 10257.1 | 9944.8 | 9726.2 | 9757.4 |
| 37.5° | 10449.0 | 10614.0 | 10716.7 | 10988.8 | 11381.4 | 11671.4 | 11323.4 | 10957.6 | 10623.0 | 10337.4 | 10239.3 |
| 40° | 11171.7 | 11283.3 | 11399.3 | 11720.5 | 12184.5 | 12474.5 | 12144.3 | 11667.0 | 11336.8 | 11042.3 | 11029.0 |
| 42.5° | 11965.9 | 12073.0 | 12193.4 | 12586.0 | 12862.7 | 13081.3 | 12777.9 | 12523.6 | 12157.7 | 11925.7 | 11912.3 |
| 45° | 12889.4 | 12813.6 | 12947.4 | 13206.2 | 13438.2 | 13581.0 | 13384.7 | 13259.7 | 12996.5 | 12782.3 | 12760.0 |
| 47.5° | 13505.1 | 13438.2 | 13679.1 | 13911.1 | 13946.8 | 13790.7 | 13830.8 | 13946.8 | 13670.2 | 13317.7 | 13429.3 |
| 50° | 13862.0 | 13862.0 | 14022.7 | 14236.8 | 14169.9 | 13969.1 | 14285.9 | 14294.8 | 14018.2 | 13705.9 | 13705.9 |
| 52.5° | 13241.9 | 13380.2 | 13835.3 | 14535.7 | 14758.8 | 14816.8 | 14745.4 | 14442.0 | 13719.3 | 13081.3 | 13050.0 |
| 55° | 11537.6 | 11506.3 | 12122.0 | 13728.2 | 15026.5 | 15713.6 | 14803.4 | 13407.0 | 11939.1 | 11220.8 | 11149.4 |
| 57.5° | 7504.3 | 7540.0 | 8459.1 | 10096.5 | 12438.8 | 13719.3 | 12184.5 | 10221.4 | 8459.1 | 7468.6 | 7562.3 |
| 60° | 3377.4 | 3497.9 | 4055.6 | 5278.0 | 7290.2 | 8334.2 | 7308.0 | 5545.7 | 4256.3 | 3694.2 | 3743.2 |
| 62.5° | 1940.8 | 1963.1 | 1985.4 | 2355.7 | 3105.2 | 3671.9 | 3225.7 | 2489.5 | 2195.1 | 2096.9 | 2096.9 |
| 65° | 1637.4 | 1624.0 | 1628.5 | 1659.7 | 1740.0 | 1856.0 | 1806.9 | 1740.0 | 1748.9 | 1740.0 | 1726.6 |
| 67.5° | 1392.0 | 1409.9 | 1396.5 | 1418.8 | 1423.2 | 1441.1 | 1472.3 | 1499.1 | 1503.5 | 1512.5 | 1503.5 |
| 70° | 1142.2 | 1146.6 | 1155.5 | 1173.4 | 1177.8 | 1191.2 | 1235.9 | 1258.2 | 1271.5 | 1271.5 | 1289.4 |
| 72.5° | 874.5 | 870.0 | 878.9 | 896.8 | 919.1 | 923.5 | 963.7 | 994.9 | 1012.8 | 990.5 | 994.9 |
| 75° | 575.5 | 580.0 | 593.4 | 606.8 | 638.0 | 669.2 | 682.6 | 713.8 | 718.3 | 727.2 | 704.9 |
| 77.5° | 343.5 | 352.5 | 365.8 | 392.6 | 419.4 | 446.2 | 477.4 | 499.7 | 508.6 | 499.7 | 472.9 |
| 80° | 223.1 | 223.1 | 240.9 | 263.2 | 294.5 | 316.8 | 334.6 | 352.5 | 365.8 | 352.5 | 343.5 |
| 82.5° | 138.3 | 138.3 | 160.6 | 187.4 | 209.7 | 223.1 | 249.8 | 272.2 | 285.5 | 276.6 | 263.2 |
| 85° | 71.4 | 75.8 | 93.7 | 116.0 | 133.8 | 142.8 | 138.3 | 124.9 | 111.5 | 107.1 | 98.2 |
| 87.5° | 22.3 | 22.3 | 26.8 | 26.8 | 22.3 | 22.3 | 26.8 | 22.3 | 26.8 | 26.8 | 26.8 |
| 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)