

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: P650498

Luminaire Tested: **GLAN-SA7B-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18624.4 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

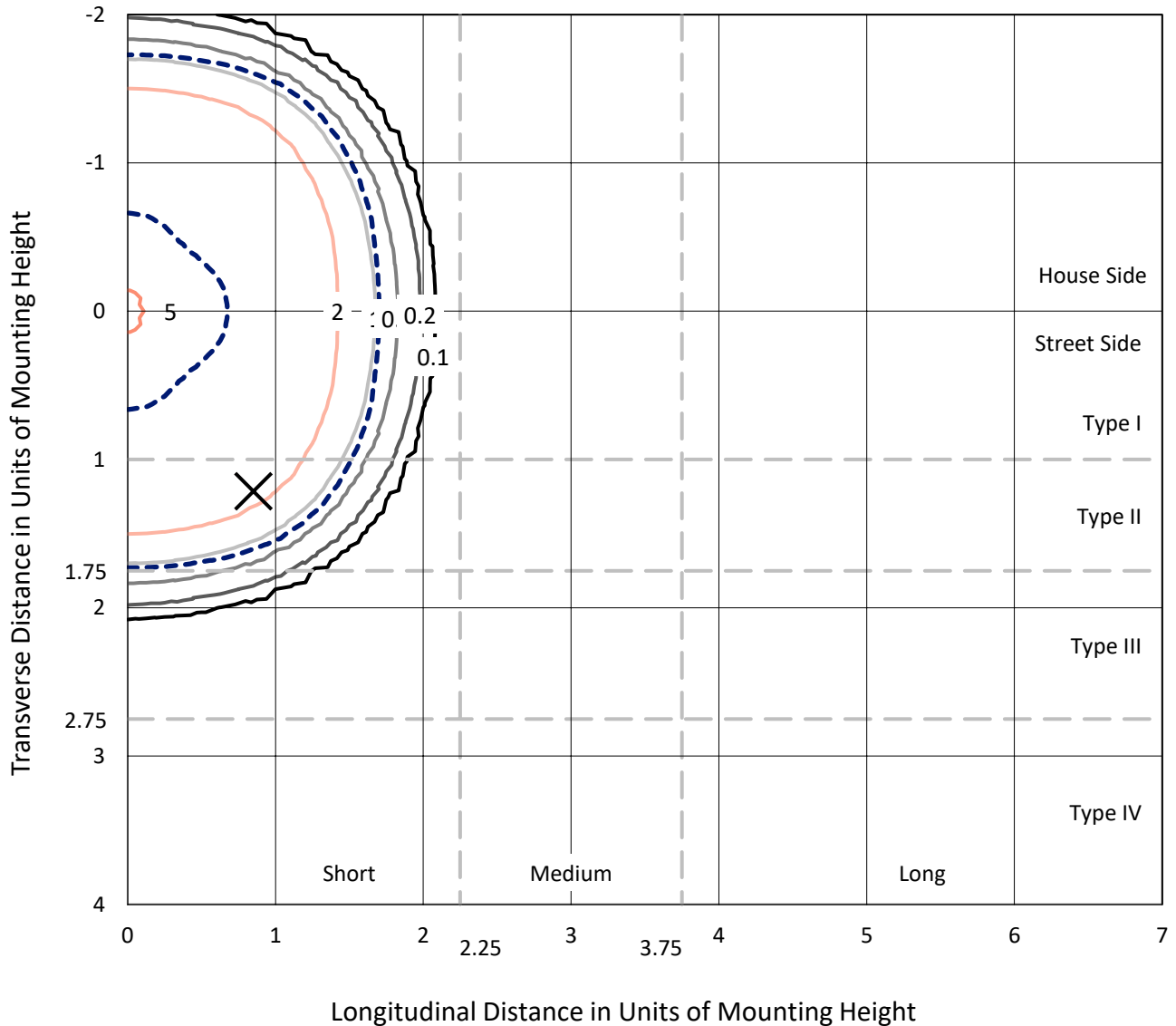
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

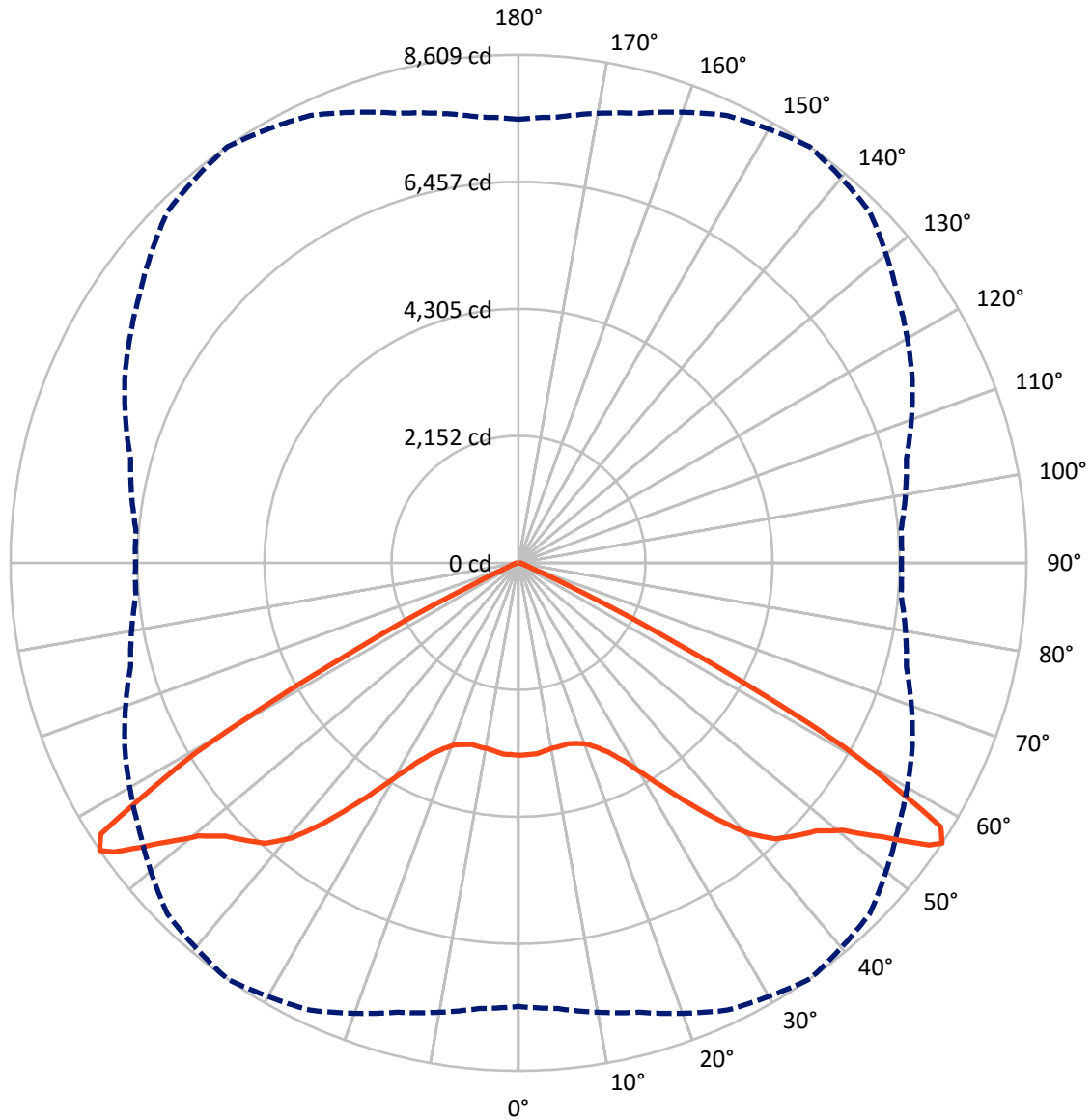
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9312.2 | 0.0 | 9312.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9312.2 | 0.0 | 9312.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18624.4 | 0.0 | 18624.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 306.7 | 1.6 |
| 10°-20° | 895.4 | 4.8 |
| 20°-30° | 1621.5 | 8.7 |
| 30°-40° | 3006.9 | 16.1 |
| 40°-50° | 4935.6 | 26.5 |
| 50°-60° | 6358.5 | 34.1 |
| 60°-70° | 1401.3 | 7.5 |
| 70°-80° | 81.3 | 0.4 |
| 80°-90° | 17.1 | 0.1 |
| 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° | 18624.4 | 100.0 |
| 0°-180° | 18624.4 | 100.0 |

Coefficient of Utilization



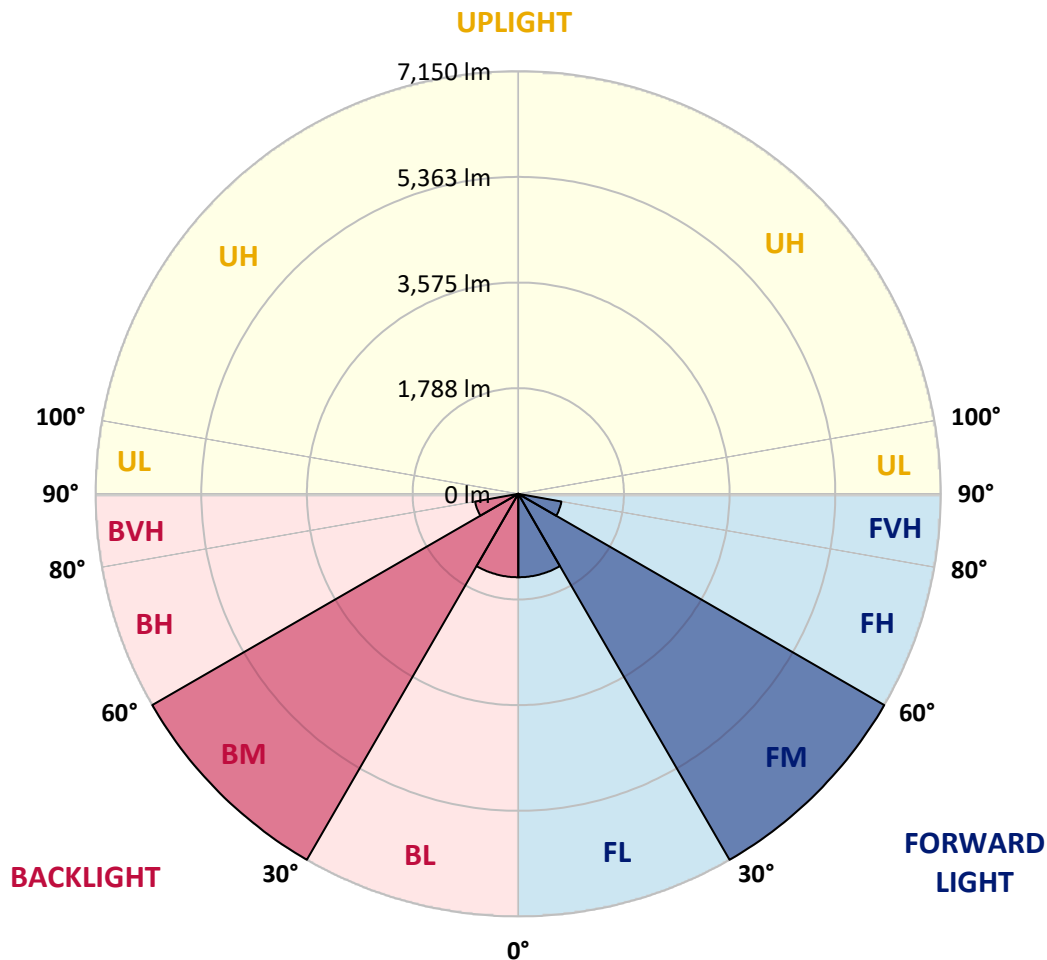
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1411.8 | 7.6 | | | |
| FM (30°-60°) | 7150.5 | 38.4 | | | |
| FH (60°-80°) | 741.3 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 8.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1411.8 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 7150.5 | 38.4 | B4/8500 | | |
| BH (60°-80°) | 741.3 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 8.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3263.4 | 3263.4 | 3263.4 | 3263.4 | 3263.4 | 3263.4 | 3263.4 | 3263.4 | 3263.4 | 3263.4 | 3263.4 |
| 2.5° | 3270.1 | 3270.1 | 3273.5 | 3276.9 | 3253.3 | 3243.2 | 3246.6 | 3239.7 | 3236.4 | 3246.6 | 3246.6 |
| 5° | 3260.0 | 3260.0 | 3249.9 | 3253.3 | 3253.3 | 3222.9 | 3222.9 | 3229.6 | 3229.6 | 3209.4 | 3202.6 |
| 7.5° | 3233.0 | 3226.3 | 3212.8 | 3229.6 | 3219.5 | 3219.5 | 3195.9 | 3179.1 | 3172.2 | 3185.8 | 3172.2 |
| 10° | 3175.7 | 3179.1 | 3192.5 | 3199.3 | 3192.5 | 3212.8 | 3172.2 | 3148.7 | 3125.0 | 3114.9 | 3114.9 |
| 12.5° | 3148.7 | 3168.9 | 3148.7 | 3165.5 | 3189.2 | 3172.2 | 3148.7 | 3131.8 | 3098.0 | 3084.6 | 3084.6 |
| 15° | 3145.3 | 3158.8 | 3165.5 | 3189.2 | 3179.1 | 3185.8 | 3138.5 | 3118.3 | 3067.6 | 3044.1 | 3033.9 |
| 17.5° | 3141.9 | 3158.8 | 3168.9 | 3212.8 | 3219.5 | 3222.9 | 3185.8 | 3125.0 | 3081.2 | 3057.5 | 3033.9 |
| 20° | 3179.1 | 3185.8 | 3206.0 | 3249.9 | 3276.9 | 3324.1 | 3256.7 | 3192.5 | 3098.0 | 3071.0 | 3060.9 |
| 22.5° | 3226.3 | 3260.0 | 3280.3 | 3327.5 | 3398.4 | 3438.9 | 3351.2 | 3270.1 | 3172.2 | 3138.5 | 3098.0 |
| 25° | 3378.2 | 3371.4 | 3405.1 | 3503.0 | 3560.4 | 3590.8 | 3519.9 | 3401.7 | 3273.5 | 3233.0 | 3239.7 |
| 27.5° | 3567.1 | 3573.8 | 3604.2 | 3712.3 | 3796.6 | 3843.8 | 3759.5 | 3604.2 | 3479.4 | 3411.9 | 3405.1 |
| 30° | 3813.5 | 3806.7 | 3840.5 | 3985.6 | 4137.5 | 4208.3 | 4059.9 | 3877.6 | 3756.1 | 3668.4 | 3688.6 |
| 32.5° | 4073.3 | 4076.7 | 4171.2 | 4302.8 | 4549.2 | 4687.6 | 4447.9 | 4225.2 | 4042.9 | 3982.3 | 3951.9 |
| 35° | 4458.1 | 4474.9 | 4549.2 | 4751.7 | 5025.1 | 5203.9 | 4940.7 | 4674.0 | 4464.8 | 4353.5 | 4366.9 |
| 37.5° | 4933.9 | 4917.0 | 5041.9 | 5261.3 | 5548.1 | 5679.7 | 5457.0 | 5153.2 | 4940.7 | 4866.4 | 4913.6 |
| 40° | 5440.1 | 5457.0 | 5521.1 | 5720.2 | 6040.8 | 6128.6 | 5797.9 | 5632.5 | 5446.9 | 5409.7 | 5467.1 |
| 42.5° | 5946.3 | 5936.2 | 5983.5 | 6162.4 | 6395.2 | 6334.5 | 6138.7 | 6040.8 | 5909.2 | 5835.0 | 5912.6 |
| 45° | 6317.6 | 6300.7 | 6388.4 | 6509.9 | 6594.3 | 6479.6 | 6391.8 | 6358.0 | 6290.5 | 6209.6 | 6280.4 |
| 47.5° | 6678.7 | 6665.1 | 6749.5 | 6783.3 | 6790.0 | 6638.2 | 6655.0 | 6715.8 | 6547.1 | 6378.3 | 6459.3 |
| 50° | 6985.8 | 6962.1 | 7066.7 | 7141.0 | 7124.1 | 6881.2 | 6941.9 | 6881.2 | 6617.9 | 6418.8 | 6388.4 |
| 52.5° | 7498.7 | 7508.9 | 7620.2 | 7755.2 | 7714.7 | 7512.3 | 7424.5 | 7147.8 | 6810.3 | 6631.4 | 6526.8 |
| 55° | 7822.7 | 7772.1 | 7964.4 | 8393.1 | 8440.3 | 8231.1 | 7843.0 | 7434.6 | 6928.4 | 6709.1 | 6682.0 |
| 56° | 7519.0 | 7583.1 | 7886.8 | 8366.0 | 8609.0 | 8416.7 | 7853.1 | 7363.7 | 6806.9 | 6509.9 | 6489.7 |
| 57.5° | 6746.2 | 6712.4 | 7124.1 | 7778.9 | 8440.3 | 8359.3 | 7576.4 | 6857.5 | 6209.6 | 5875.5 | 5835.0 |
| 60° | 4198.2 | 4296.1 | 4657.2 | 5467.1 | 6351.3 | 6391.8 | 5615.6 | 4998.0 | 4242.1 | 3945.1 | 4016.0 |
| 62.5° | 1643.5 | 1559.1 | 1785.2 | 2389.3 | 2996.8 | 3131.8 | 2838.2 | 2358.9 | 1937.1 | 1643.5 | 1623.2 |
| 65° | 381.3 | 371.2 | 418.4 | 577.1 | 806.6 | 934.8 | 887.5 | 637.8 | 469.1 | 445.4 | 411.7 |
| 67.5° | 216.0 | 216.0 | 205.9 | 205.9 | 226.1 | 239.6 | 229.5 | 226.1 | 236.2 | 246.3 | 243.0 |
| 70° | 151.9 | 148.5 | 141.7 | 145.1 | 138.4 | 138.4 | 148.5 | 165.4 | 178.8 | 178.8 | 182.2 |
| 72.5° | 91.1 | 91.1 | 91.1 | 101.2 | 101.2 | 101.2 | 111.3 | 124.9 | 128.3 | 124.9 | 121.5 |
| 75° | 40.5 | 40.5 | 47.2 | 57.4 | 64.1 | 67.5 | 77.6 | 84.4 | 91.1 | 84.4 | 77.6 |
| 77.5° | 10.1 | 10.1 | 16.9 | 23.6 | 30.4 | 37.1 | 50.7 | 60.8 | 64.1 | 60.8 | 50.7 |
| 80° | 3.4 | 3.4 | 6.7 | 16.9 | 30.4 | 37.1 | 50.7 | 54.0 | 57.4 | 50.7 | 40.5 |
| 82.5° | 3.4 | 3.4 | 6.7 | 16.9 | 23.6 | 30.4 | 40.5 | 47.2 | 50.7 | 43.8 | 40.5 |
| 85° | 0.0 | 3.4 | 6.7 | 13.5 | 20.3 | 27.0 | 27.0 | 20.3 | 16.9 | 10.1 | 13.5 |
| 87.5° | 0.0 | 0.0 | 3.4 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)